

# IRCA FOREIGN LOG



VOLUME EIGHT

78/79

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# INTRODUCTION

To most people, it must seem impossible to receive foreign radio broadcasts on the AM broadcast band. But for a small but enthusiastic group of hobbyists it is a very real and enjoyable pasttime. Some who have been listening for a long time and used sophisticated receivers and antennas have heard as many as a hundred countries on the AM band. While it's true that such a feat requires a sizeable investment in time, patience, and equipment, it's also true that a knowledgeable beginner can hear up to a couple dozen countries on an AM portable simply by knowing where and when to tune.

In a nutshell, the main purpose of this log is to tell both the novice and veteran DX listener which stations can be heard in North America, when they can be heard, and what sorts of programs they carry. The information contained in this log is taken directly from "DX Worldwide" reports in DX Monitor, IRCA's official magazine. Unlike the World Radio TV Handbook, the IRCA Foreign Log does not try to list every station in the world, but instead lists reception details, as heard and reported by club members. The first IRCA Foreign Log was published in 1971 and was an immediate success. IRCA Foreign Logs have been published nearly every year since then.

In addition to the "Loggings" listed in the log, we have included several articles and lists which should be helpful to the foreign DX enthusiast. Since foreign medium wave reception is highly dependent on solar activity, we've included a section on geomagnetic indices.

We sincerely hope you find this edition of the IRCA Foreign Log to be a valuable addition to your DXing reference library.

--- Bruce Portzer, Editor-in-Chief

## Credits

Compiled by: Phil Bytheway, Evelyn Portzer  
Edited by: Bruce Portzer, Phil Bytheway  
Typed by: Bruce Portzer, Dave Korinek, Nick Hall-Patch, Mike Worst,  
Richard Eckman, Phil Bytheway, Lori Korinek  
Material from other organizations was used where noted

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The IRCA Foreign Log is published by the International Radio Club of America, P.O. Box 21074, Seattle, WA 98111, and printed by Save-On printing, Seattle.

# Transatlantic DXing

by Richard Eckman

In the past few years DXers have witnessed an ever increasing number of problems which have limited their ability to receive long distance trans-oceanic medium wave stations. Some of the problems are due to natural phenomena - a higher than expected sunspot maximum is one of the primary ones. Others are man-made - increased noise from electrical appliances, television interference, and an ever increasing number of fulltime radio stations.

As we enter the 1980's we are going to have to change some of our methods in attempting to receive European and African MW stations. The long awaited 1978 ITU frequency reallocations were on the whole a mixed blessing for the trans-Atlantic DXer. Obviously, many new stations moved to frequencies better suited for reception in North America but, unfortunately, many of the high-band super-powered stations that were always relatively easy to hear moved to frequencies less favorable for us due to their close proximity to domestic 10 kHz. separation. Recent FCC proposals regarding clear channels and particularly in relation to 9 kHz channel spacing may profoundly affect the nature of TA DXing. If the 9 kHz spacing proposal was implemented in North America TA reception would, needless to say, be adversely affected. In any event, a more serious attitude will be necessary to make TA reception successful and enjoyable - that of combining a basic knowledge of geomagnetic effects on reception and a plan of what to look for based on a particular set of conditions. It is the intent of this article to attempt to fill this need. Before getting to some of the specifics, a few preliminary considerations are necessary.

## Equipment

First, a few words on what is necessary to make your TA hunting a success. In the last few years few really good, new receivers have appeared on the market that are adequate for long-distance "split" channel reception. A receiver with reasonably good selectivity is a must unless you're very near the east coast in which case you may be able to use even a mediocre receiver under good conditions. Check reception of the more common Latin American split frequencies (e.g. Belize-834, R. Paradise-1265). If you have trouble separating these stations from domestics then you're going to have a real problem getting 2 and 3 kHz. split frequencies. With conditions not expected to improve appreciably until at least after the sunspot peak in late 1979/early 1980, the very good conditions which allowed TA reception far inland with relatively modest receivers will be far less prevalent than just a few years ago. Many of the used Hammarlunds and other tube-type communication receivers available on the used market are adequate, if not actually your best bet, for serious TA DXing.

The last few years have witnessed a number of new commercial and quasi-commercial loop distributors. The "Space Magnet" series still appears to be one of the more popular brands combining good results and portability. Larger, air-core loops (with pre-amps) will generally outperform the smaller ferrite-core loops but at the expense of portability and likelier at a higher cost. The Sanserino loop appears to be the most popular (if not only) "mass-produced" air-core loop. Larger and better loops generally require more money and some knowledge to build unless you're fortunate enough to have a person willing to do this for you.

## Location

If you live within 100 miles of the east coast you obviously are in good shape to hear TAs. As you move further inland it's going to take more skill (and luck) and probably better equipment to be very successful at TA listening. TA reception in the central states is by no means impossible. There were many fine loggings reported from

Colorado, Oklahoma, and Louisiana in the 1978-79 season. West-coast DXers will probably have to wait a few years before they can expect receptions of the caliber of those made in the Pacific Northwest during the last sunspot minimum around 1976. But as a word of consolation, it would seem that west coast TP reception has never been better since the frequency reallocations despite the decline in good conditions!

### Recognizing Potentially Good TA Conditions

Moving on to the main emphasis of this article, we have to tackle the question of knowing when to expect decent TA conditions. This can be done with a good degree of accuracy by knowing a little about the basic natural phenomena and their affect on TA reception and by monitoring the propagation reports broadcast by WWV (5, 10, 15, and 20 MHz.) at 18 minutes past each hour.

Seasonal variation is one of the major factors affecting TA reception. Generally speaking, the less hours of sunlight, the better the condition of the nighttime ionosphere for propagating medium wave signals. This would obviously favor the fall and winter months. Also since many Europeans tend to sign on around 0600 local time, the summer months tend to be poor months for receiving these stations since European sunrise occurs much earlier than sign-on time.

Variations in solar activity heavily influence TA conditions. Flares and other disturbances on the sun often cause increased geomagnetic activity. This corresponds to a southern expansion of the auroral zones (donut shaped rings roughly centered about the poles). In general, medium wave signals have a hard time propagating through these charged particle auroral zones. Most European signals received in North America must pass near or through the zone on their way to the U.S. Hence, the lower the geomagnetic activity, the smaller and further north the auroral ring tends to be. To find out what the geomagnetic activity is at any particular time is relatively simple. WWV's aforementioned propagation report broadcasts two indices of significant interest to TA DXers. They are the "A" and "K" indices. The A-index is a daily indication of the earth's geomagnetic activity. Values below 10 generally indicate quiet (i.e. undisturbed conditions) and usually a better chance for TA reception. As the A-index increases the geomagnetic field is more disturbed and often unable to propagate TA signals. Very high values of the A-index (over 30) often are reflected by visual observation of the Aurora Borealis in many parts of the northern U.S. The K-index is similar to the A-index but is updated every 3 hours and is a logarithmic rather than linear scale. Hence, the K-indices vary from 0 to 9 while the A varies from 0 to well over 100. As in the case of the A-index, the lower the value of the K-index the better conditions are likely to be. A number of general cases will be presented below with what can in many (but by no means all) cases be expected on the MW band. These are based largely on personal experience and should not be considered the last word.

- (1) Quiet Conditions: ( $A < 5$ ,  $K = 0, 1$ ) If these conditions persist for several days then it is quite likely that TA conditions will be at their best. The auroral zone is given time to retreat northward thus TA signals can propagate with minimum attenuation. Look for both low-band and high-band TA signals at both local sunset and European sunrise.
- (2) Unsettled Conditions: ( $5 < A < 10$ ,  $K = 2, 3$ ) TA conditions will be mediocre. If they had been good they are likely to decline significantly. High-latitude stations are often wiped out leaving the Southern Europeans dominant. If conditions had been bad they are likely not to improve much unless conditions later become quiet. Often high-band signals are reasonably good around European sunrise despite no TAs received on the low end of the band.
- (3) Active Conditions: ( $A > 15$ ,  $K = 4, 5, 6+$ ) Conditions will generally be poor for TAs. Possibly some Northern African signals will be in depending on the severity of the disturbance. Often, at the beginning of such a disturbance high-band conditions become significantly enhanced with many of the super-powered Germans (among others) in with very powerful signals. This effect is usually strongest above 1400 kHz. and generally evident during the early evening hours (2300-0300 UT).

## "Best Bets"

Below is a partial list of some of the more easily received TA stations in descending order of reception. These are based on mine and other DXers reports over the past few years. Articles such as Mark Connelly's TA Strategy paper should also be consulted for additional TA targets.

MONACO: Monte-Carlo 1467 kHz (400 kW) still tends to be one of the easiest TAs to receive. Despite its closer proximity to domestics than prior to the '78 reallocations its southerly location contributes to its ability to make it to North America with relative ease. Reception is best around local sunset (to 0000 UT s/off) with Trans-World Radio religious programming and also at s/on (0445 UT) with its distinctive interval signal and GG religious program.

GERMAN FEDERAL REPUBLIC: The high-band W. Germans are not quite as easy to hear as they were before 1978. Westdeutscher Rundfunk (1593 kHz, 800 kW) remains the easiest. It's NSP and broadcasts a wide variety of music and talk programs all in GG. News, ID, and sometimes an IS are aired on the hour. DLF on 1539 kHz (700 kW) is now difficult to receive due to its proximity to 1540 kHz "clears". SR on 1422 kHz (1200/600 kW) is not too hard to hear on a good high-band evening.

FRANCE: Nice 1557 kHz (300 kW) still tends to be the easiest heard station from France. This is a member of the French Culture (FC) network and seems to have a variable s/on time - usually around 0430 UT. When this is in look for Lille-1377 kHz (300 kW) and Bordeaux-1206 kHz (100 kW). Programming from 0430-0600 UT is usually in a variety of foreign languages so don't be surprised if it's not in FF.

MALTA: The Deutsche Welle relay now operating here on 1557 kHz (600 kW) should give France some co-channel interference in the future with DW programming (in GG) from at least 0300 to beyond 0400 UT. AA local programming has also been heard on this outlet.

TUNISIA: Sfax-1566 kHz (1200 kW). The new superpower station here has been received loudly on the east coast. Sign on is around 0430 UT. Programming consists of the typically heard AA music/chanting and talk often heard on other North African stations.

PORTUGAL: A number of outlets have been heard on a regular basis in the U.S. In particular those on 666, 719, 756, 1035, and 1578 kHz are often received both at local sunset and at European sunrise.

ITALY: Rome-846 kHz (540 kW) has been noted very well in past years when low-band conditions are good. With proposed increase in power to 2000 kW it could become a regular on the east coast in the future. Programming generally consists of light music and multi-lingual news bulletins on the hour and half hour. Genoa-1575 kHz (50 kW) has been received often since the frequency allocations and would appear to be a good high band bet in the future. Interference from Spain on the same channel will be a problem, however.

ALBANIA: Lushnje (Tirana)-1395 and 1458 kHz (500 kW) carry foreign service programming in the early evening (local time) and also at European sunrise. The 1395 outlet tends to be more easily heard with programming to their 2355 UT s/off in the evening. Their distinctive IS is heard between programs on the hour and half-hour. English was (is?) broadcast on 1395 kHz at 2200 UT.

ENGLAND: BBC on 1215 kHz (60 kW) tends to make it out quite well - often to the midwest and west coast around the hours of Eur. sunrise. In addition Crowborough-648 kHz (500 kW) makes it in well when low-band conditions are good with world service programming. Other outlets on 1088 and 1296 kHz with BBC WS are also heard in the U.S.

SPAIN: Several low-band RTVE outlets are heard on the east coast. These include Madrid-585, Sevilla-684, Barcelona-738, and Murcia-855 kHz. These outlets are NSP with programming in SS.

Nevertheless to say, this doesn't exhaust the possibilities. These, however, should be among the more frequent TA receptions made in the coming seasons. Don't forget to report your catches (even if only tentative) to DXWW!

# A New Era of TP DXing

by Bruce Portzer

On November 23, 1978, most of the medium wave stations in Asia and the South Pacific moved from a 10 kilohertz spacing, like we have in North America, to a nine kilohertz spacing. The end result was that these trans-Pacific signals, for the most part, no longer occupy the same interference-laden frequencies occupied by domestic stations.

Listening for these stations hasn't been the same since. Despite mostly mediocre conditions and a high sunspot count during the past year, west coast DXers have heard some exciting DX. Stations once difficult to receive are now heard regularly. Countries, such as Papua New Guinea, Thailand, and the Marshall Islands, once difficult or impossible to hear in North America, have now been heard by many DXers. And the possibilities of hearing Mongolia, Singapore, and even India are being contemplated or discussed by more than one DXer.

As if it wasn't obvious, all previous articles on transpacific DXing are now obsolete. This article will bring the broadcast band DXing community up to date on the topic. The next few pages will focus on how to hear Asian and "Down Under" stations and will list the "best bets" for several countries. Information contained herein is based mainly on DX Worldwide tips from the past year, supplemented by references like the World Radio-TV Handbook and the Pacific Log.

## YOUR LOCATION AND EQUIPMENT

If you live within a couple hundred miles of the Pacific Ocean you should be able to hear Hawaii or Japan on even an unmodified good-quality portable, such as a Realistic TRF or a GE Superradio. A communications receiver, such as an HQ-150/180, modified FRG-7, or R-390, and a loop antenna is needed to hear the "really good stuff": Thailand, 2000 watt Australians, Philippines, and splits 1-2 kHz away from domestics. In between, the many Chinese, Korean, Australian, Russian, Zedder, and Pacific Island stations, might be possible on portable radios or table radios, but most likely you'll need to use a communications receiver.

Eastward to the Rocky mountains, Asian and Down Under stations can be heard with reasonably good signals. They aren't heard as well as near the coast but they're there. For example, Bill Harms heard Japan-702 last winter in Provo, Utah, on a clock radio with a wedge antenna.

Reception becomes more difficult east of the Rockies. Some Asian stations will undoubtedly be heard in the midwest some day, but possibly not until the sunspot cycle bottoms out. I would rate the most likely targets for midwest DXers as HLDA-1566 and JOIB-747, followed by JOUB-774, China-1044, and JOBB-828. Down under stations are rarely heard in the eastern half of the U.S., but a few made it as far east as Michigan last season. Most likely candidates (in no particular order) include Tahiti-738, A3Z-1017, VSZ1-846, 3LO-774, 1YA-756, 2YC-657, 1YC-882, 2NA-1512, and perhaps others. Some of these stations were heard as far east as Boston in the mid-sixties, when domestic channels were less cluttered, so it should still be possible to hear them in the eastern U.S. and Canada. However, it will take good equipment, a good location, patience, time, skill, and lots of luck, not necessarily in that order.

## WHEN TO LISTEN

Asian signals are best heard between September and December. Reception drops off noticeably during January and February, makes a brief resurgence in March, and then drops to nearly nothing until the following autumn. Reception is generally best when the A-index has been under 10 for several days. However, good Asian openings have been experienced with the A-index around 20 and the ionosphere in a "disturbed" state. Likewise, Asian signals can be absent from the dial even after several days of low solar activity and quiet conditions.

Signals from the far east usually do not start fading in until after 0800 UTC, although JOIB-747 has been noted in Seattle as early as 0615. Even then, reception of these stations doesn't peak until later.

Down Under stations can be heard in North America during any month of the year. However, reception is best during the months of September, October, March, and April. In other words, near the spring and autumn equinoxes. Stations in Hawaii and other Pacific Island "countries" are heard more frequently than Australian and New Zealand stations. It is not uncommon for Hawaiians to fade in around 0500 UTC, followed by stations in the South Pacific around 0700 or so. New Zealanders, when in, aren't normally heard until after 0800 or 0900. Australians follow an hour or so later. Reception of Down Under stations does not seem to correlate with A-index values or other indicators of high-latitude reception.

### IDENTIFYING STATIONS

It can sometimes be difficult to identify a signal arriving from across the Pacific, especially of its programming is not in English. There are, however, several generally acceptable methods of identifying trans-Pacific stations:

- Station identification, either by the name of the network or the call letters of the station. IDs given by English language stations are obvious, but call letters and network names are aired by NHK stations (Japan) at various times, and by Korean stations. If you know what to listen for you can even pick out IDs in Chinese on Chinese and Russian stations.
- Time pips. These consist of 3 to 6 pips or tones aired at the top of the hour by many government networks. An excellent article and listing of time pips appears in Foreign Log #6 (it's also available as a reprint). Some sets of pips are very similar to one another and can confuse even the veteran TP DXer. For example, Japan's NHK, South Korea's KBS, and some North Korean stations all carry three short and one longer and higher pips on the hour. There are subtle differences between the three sets of pips which can make it difficult to fully identify a station.
- Theme music. The NHK airs a short piece of music from time to time, usually at 20 minutes before or after the hour, which is familiar to most experienced TP DXers. The Voice of America on 1143 kHz and 1575 kHz uses "Yankee Doodle". Russian stations play "midnight in Moscow" chimes in some instances.
- Parallel programming. You can often identify a station based on its being parallel to an identified station, either on medium wave or shortwave. You usually need two receivers to do this properly, though....

Note that it is usually not a good idea to identify a station based only on the language it is broadcasting in. Some stations carry foreign language programs on a regular basis. The NHK Second Network has English and Chinese lessons. China, Russia, and the Koreans carry foreign service programs in various languages, and so on. Besides that, if a signal is coming in weakly it may be difficult to determine the language being broadcast.

### BEST BETS

The following is a listing of the "best bets" for reception in western North America. This information is combined from DX Worldwide tips from the past year, various references, and my own speculations.

ALASKA. America's 49th state is the most difficult for most DXers to hear. If you live in the Pacific Northwest, KFQD-750 should put in a good signal many nights of the year. KPAR-660, KNOM-780 (on Sundays with KCRL off), KDLG-670 (on Mondays with KBOI off), or (cough cough) Adak-890, are all reasonable runners-up. DXers in California can also hear Alaska, but with more difficulty than Northwest DXers. DXers anywhere else in North America have already discovered that Alaska is difficult or impossible to hear.

AUSTRALIA. The higher powered ABC stations are the easiest to hear. The easiest of all is probably 3LO-774, provided you can get past KCRL and KOB. The next easiest, in no particular order, are 2BL-702, 2NR-738, 4QS-747, 5AN-891, or 2NA-1512. In some cases, stations will be easier to receive on Sunday or Monday mornings with adjacent channel domestics off the air. Commercial stations with 2 or 5 kw output are not difficult to hear on a Beverage antenna and communications receiver in a rural setting next to the beach. They can even occasionally be heard in urban areas farther inland. As of this writing, Australian stations only seem to come in as far east as Denver. Reception seems to be much better in the Northwest than in mid or southern California, for some odd reason. Most Australians seem to be good verifiers. Some commercial stations send out very attractive QSL cards.

BRUNEI. As the saying goes, "rotsa ruck". 594 kHz with 200 kw is a definite possibility for North American listeners.

CHINA. The outlet on 1044 kHz near Shanghai is the most frequently heard Chinese station. Note that this is a foreign service outlet in Japanese. Yanji-1206 is often heard with Korean programs. Many other Chinese stations have been reported during the past year, including those on 756, 855, 882, 1035, 1053, 1116, and other frequencies. Chinese stations can be identified by 5 low and one high pips on the hour. On the half hour it is sometimes possible to catch a "Zhongyang renmin guangpo diaotai" ID (it's pronounced just like it's spelled, hi). China has apparently changed its verification policy recently; several DXers have received home service veries on medium and short waves recently. As a final note, many Chinese programs are aired on shortwave as well as medium wave. There are a number of local and regional stations, as well as four or five national programs. Two such networks, Beijing 1 and Beijing 2, are carried on many shortwave and medium wave frequencies. I've found 6665 and 7770 kHz, respectively, as good frequencies to use when checking parallel programming.

FIJI. The Radio Fiji outlets on 711, 639, and 891 kHz are sometimes heard, depending on how well you can get past the domestics 1 kHz away. 891 is the easiest to hear and seems to carry 100% Hindi programming. 711 seems to parallel it, while 639 has been in English whenever I've heard it. Fiji seems to be a difficult country to extract a verification from.

GILBERT ISLANDS. Tarawa on 846 kHz was heard east of the Mississippi many times when it was on 844. It's not reported as often now that it's on 846, even by west coast DXers, but it's still a good one to listen for. The Gilbert Islands recently changed their name to Kiribati.

HAWAII. Our fiftieth state can be heard east of the Mississippi, believe it or not. It's been done many a time, although usually with great difficulty. The state is also well-received on the west coast. KORL-650 is by far the easiest, but KGU-760, KIKI-830, KAIM-870, KPOI-1040, and maybe even KKUA-690 (during rare XETRA silent periods) are heard well on the west coast and occasionally drift further inland. Verifications for most Hawaiian stations can be obtained from Alan Roycroft, Broadcast Services, 2877 Kalalaua Avenue, Honolulu, 96815.

INDONESIA. This country hasn't been heard in North America since the big change took effect. The outlets on 855, 864, and 1134 kHz were heard in North America before November 1978 and might still make it through, if the co-channel stations cooperate.

JAPAN. This is by far the easiest Asian country. JOIB-747 is audible on nights when no other Asians can be heard. Other high powered NHK stations, such as JOUB-774, JOBB-828, JOGB-873, JOAB-693, and JOLB-1017 are also often heard here. NHK has two networks, NHK1 and NHK2. The NHK1 stations are rather difficult to hear; JOHK-891 is probably the easiest to receive. The aforementioned high powered outlets are all NHK2 stations. Since all the stations on a particular network operate in parallel, the high powered stations can often be used to identify many others. NHK2 seems to run several hours of English lessons and programs during their evenings, so it's possible to confuse them with co-channel Australian and New Zealand stations. In addition to these stations, there are about 150 commercial stations in Japan, ranging in power from 1 to 100 kw. Some of them are relatively easy to hear, including JOAR-1053, JOOR-1179, JOLF-1242, and maybe others. It's rather difficult to extract an ID from them, but if you get a good enough signal you can send a taped reception report. Many Japanese commercial stations send extremely attractive QSL cards.

Korea, Democratic Peoples Republic of (aka N. Korea). This country only recently changed to the nine kilohertz spacing. The 657 kHz outlet is the easiest to hear but 819 kHz is a not-too-distant second. North Koreans are not usually difficult to recognize, the announcers usually sound like they're yelling at someone.

Korea, Republic of (aka S. Korea). Several outlets are being well received on this side of the Pacific. Missionary station HLDA-1566 puts in an excellent signal many mornings with Korean and Japanese religious programs. The government owned KBS has stations on 558, 891, 972, and 1143 which are being heard by many DXers. And some privately-owned commercial stations can be received, such as HLCQ-756.

MALAYSIA. Sabah-1475 seems to have ignored the new plan by staying on its

old frequency. This station seems to be heard best during the spring.

MARSHALL ISLANDS. WSZ0-1098 on Majuro was heard by several DXers last season. Reception usually requires a KFAK-1100 silent period.

MONGOLIA. There is reportedly a new station on 882 kHz. It has yet to be officially identified by anyone in North America and program information is a bit sketchy at the moment. It is believed to carry some relays of Radio Moscow's Mongolian service, however.

NEW CALEDONIA. Noumea-666 is worth watching for when Australia and New Zealand are in well.

NEW ZEALAND. Several good "target" stations are heard often in North America. 1YA-756, 1YZ-819, 2YC-657, 1YC-882, 1ZD-1008, 2ZB-1026, 3ZB-1035, and 4ZB-1044 are often received on this side of the big pond. These stations are all operated by Radio New Zealand, which operates three or four networks of stations operating in parallel. Consult the WRTM or the Pacific Log for details. R. New Zealand stations are generally excellent verifiers, sending a card and sometimes a letter.

PAPUA NEW GUINEA. The 864 kHz outlet, although using only 2 kw, was heard by more than one DXer during the past year.

PHILIPPINES. VOA-1143 has been reported a couple times recently. Be careful about identifying it, however, as it can be confused with Japanese or Korean stations on the same frequency. The safest way to ID it is to wait for it to play "Yankee Doodle". DWAD-1098 was heard in North America last season, and DYLA-1555 and DXRS-1196 were heard before the new plan went into effect. It is not known whether the last two stations moved to the new frequency plan or not. There are several high powered stations that bear looking for: DZAS-702, DPI-1-738, DWRV-846, DXXX-1008, DPI2-1287, and DZOR-1458. They haven't been heard here yet, but all have 50 kw or more power.

PHOENIX ISLANDS. WXLE-1385 on Canton Island gets out extremely well for 250 watts. This station may actually be on 1386 or it may switch back and forth - reports are conflicting at the moment. This station is scheduled to be dismantled soon, so if you haven't heard it yet, hop to it.....

SINGAPORE. The 792 kHz outlet is being pursued by many DXers without success. With a possible increase to 500 kw it certainly is a feasible target which would add a new country to many a DX log.

SOLOMON ISLANDS. VQ0-1026 can be heard on many a "down under" night. There is also reportedly an outlet on 945 kHz which bears watching for.

TAHITI. (Also known as Society Islands) Papeete-738 puts a het on KCBS most evenings outside KCBS' primary coverage area. Audio is more difficult to come by. The best way to identify the station is to tune to 11825 or 15170 kHz and wait for parallel audio to surface. This station signs off at 0730 weekdays, 0900 Saturday nights/Sunday mornings. Conveniently enough, KCBS just moved their silent period to Sundays beginning at 0800 UTC, making the 0800-0900 SM period the best time to try for them.

THAILAND. The Voice of Free Asia on 1575 has been heard recently. This station relays the programs of R. Thailand and the Voice of America (mostly the latter).

VIETNAM. It would not surprise me if this country was heard in North America eventually. The outlet on 1010 kHz was heard frequently in Europe before the new plan went into effect. If it moved to 1008 it's worth looking for, if you can get past New Zealand and Japan.

SOVIET UNION. The most frequently heard outlet is the foreign service transmitter on 648 kHz, which broadcasts a variety of Chinese, Korean, and Japanese programs. The home service outlet on 783 at Spassk Dalniy can be heard at times. A new foreign service transmitter has been heard on 720 kHz with English programs. The foreign service transmitter on 585 is also worth watching for as is the home service (Mayak) station in Khabarovsk on 576 kHz. The Soviet Union seems to have some peculiar ideas about verifications; it's rumored that they only verify reports written in the language that the program was in.

# Geomagnetic Indices

Various indices of geomagnetic and auroral disturbances in the Earth's magnetic field have come to be known as indicators of long distance medium wave propagation conditions.

The most frequently used indicator is the A-Index, a measurement of geomagnetic activity in the ionosphere. Its usefulness as an indicator of geomagnetic conditions can be described as follows:

"High values of  $A_{FR}$  (the A-index as measured from Fredericksburg, VA.) occur during a heavy influx of electrically charged particles into the upper atmosphere as a result of certain types of solar disturbances. The medium wave signal absorption produced by one of these disturbances is strongest in high latitudes and persists for some days following the initial particle influx. Values of  $A_{FR}$  above 20 are inevitably associated with high level levels of absorption along high latitude TA and TP paths. Very high levels (above 40) are usually accomadated by E-layer blanketing over North America and Europe; on such nights signals from the south will appear to dominate most channels. Long periods of low geomagnetic/auroral activity are necessary but not sufficient to guarantee high latitude TP and TA reception --- other ionospheric effects such as the "Midwinter Anomaly" may effectively mask what would otherwise be periods of excellent reception on high latitude paths during periods of low continuing low geomagnetic/auroral activity." (Gordon Nelson, DX News, May 13, 1972)

Observations made during the last few years suggest that the initial stages of major geomagnetic disturbances may actually create a short term enhancement of high latitude TA and TP reception. The exact reason for this phenomenon is not clear at this time.

The K-index is another useful indicator of geomagnetic activity. It is similar to the A-index in that it measures disturbances in the upper atmosphere, but it is computed every three hours. The A-index on the other hand, is updated once a day. The K-index, therefore, is useful for noting very recent or short term geomagnetic activities. The following table shows the approximate equivalence between A and K indices:

<u>A-index</u>	<u>K-index</u>	<u>Conditions</u>
0-1	0	Quiet
2-4	1	Quiet
5-7	2	Quiet
8-14	3	Unsettled
15-29	4	Active
30-49	5	Minor Geomagnetic Storm
50+	6+	Major Geomagnetic Storm

Reports of geomagnetic and solar activity are broadcast at 18 minutes after each hour on National Bureau of Standards station WWV on 2.5, 5, 10, and 15 MHz shortwave. The transmissions include the most recent A and K index values, reports and forecasts of geomagnetic field conditions, and all significant or unusual solar and geomagnetic x-ray activity. (Note: all field measurements reported on WWV originate from the High Altitude Observatory in Boulder, CO unless otherwise indicated.-ed)

The following is a compilation of A-index values (as reported from Fredericksburg, VA, (left side); and Anchorage, AK, (right side).-ed) for the period 01 September 1978, ending 30 June 1979, arranged in calender format (i.e. on September 06, the  $A_{FR}$  was 11, and the  $A_{AN}$  was 61). The number in parenthesis following each monthly date (i.e. September 1978 '(122.0)') is the corrected mean monthly sunspot count as reported from Boulder, CO. Following each month's A-indices are propagation reports and observations made by IRCA members during that month. It is hoped that, by arranging the information in this fashion, the reader can develop a greater understanding of the relationship between the A-index and actual medium wave reception. Note: Indices that have been underlined, indicate that magnetic storm conditions have existed for that day.

SEPTEMBER, 1978 (122.0)

								Aug/Sep					
28	78	32	28	37/	22	21	37	241	77	44	77/	34	28
11	6	6	11	5	24	23	18	15	16	61	11	35	84
10	13	13	5	4	2	6	13	21	18	16	10	12	12
7	2	0	3	6	11	10	16	10	10	13	19	19	12
8	26	30	32	31	59	10	12	84	100	46	111	231	21

- This has to be the poorest start to a DX season in many years. Looking back, I note that without exception the late Aug./early Sept. period has always been very productive for TA's since at least the '74-'75 period. The first 6 days of 9/75 produced excellent TA openings w/better than average eastern European reception. By contrast, the 9/78 season has been the pits w/few TA's heard. As I only seriously DX on occasional weekends, there's always a chance I'm missing something during the week but even during '76 and '77 when I was only a weekend DXer conditions were far superior. Solar activity has taken an upswing after relatively low summer activity. The Solar flux is back up to the high 100's. Geomagnetic conditions have been generally unsettled to active w/a major storm noted on 8/28 w/A<sub>FT</sub> up to 78, I believe. (Eckman, PA)
- Superb Latin American conditions 8/29-30. (Connelly, MA)
- I've never seen a Sept. so devoid of TP's. I haven't heard one speck of audio northern Asia all month. This season is not getting off to a very good start. A-index has been high every time I checked; now I just heard a polar cap absorption event is in progress which can't bring anything good. (Peterson, CA) (It's DX'ings answer to the abominable snowman, hi, bp).
- Been hearing Asian TP's regularly the last month, though mostly w/weak signals, and not to many have been present at any one time. Brief check 1330 9/19 yielded only three weak TP's. Have managed to bag two new Aussies this month, 5CK, and 2GF. DU's have been weak in general and, strangely enough, 2NR-700 has been generally absent. This high sunspot count has me worried... I miss those outrageous TP openings I heard many times in 1976. (Tomer, CA)
- Conditions must have been super fantastic last night. JOBB, JOIB, KFAR, Pyongyang-655, and KFQD all good-excellent. (Harms, UT)
- All the usual TP's have been heard. Conditions picking up. 9/22 very good. Should be very interesting sorting things out after 11/23 frequency change. (Williams, OR)
- The season started early this year. Wish my local electrical activity would calm down so I can enjoy it. Still averaging a thunderstorm a day. (Baskind, MS)
- 9/26-28 semi-auroral; low-band low-latitude TA's noted at LSS, some high band TA's at European dawn. 9/29-30 "short skip auroral" or sporadic E Cubans in well but little from S. America; Domestic in on skip, weak but steady. (Connelly, MA)

OCTOBER, 1978 (110.4)

10	9	6	12	6	4	2	19	34	17	37	15	12	12
5	9	9	3	9	7	4	5	25	23	12	25	17	12
6	3	4	21	15	9	10	11	11	12	56	44	16	20
8	5	3	6	16	19	13	32	13	11	20	20	61	28
10	18	18					29	70	29				

- Several nights of strong auroral conditions, especially 10/01. Usual pests to W and N "auroraed out" or relegated to backburner as LA's had a clear shot to ECNA. (Townshend, DC)
- 10/01-02 auroral w/a vengeance! Anything heard was an LA or a ground-wave domestic. 10/06 strongly medium skip domestic, showing recovery from late Sept.auroral conditions. 10/02 unusual phenomenon: heavy short skip before LSS, then a temporary blackout after LSS, particularly on lower frequencies. 2 hours after LSS short-skip had resumed. During the blackout period, Dakar-765 was overriding WABC's groundwave; no trace of WJR-760. Domestic skip below 1000 kHz non-existent; weak LA's on non-groundwave channels. Yet all was normal a few hours later. I must agree with Eckman's assessment regarding the mediocrity of this seasons TA conditions. (Connelly, MA)

-Latins were quite good many evenings 9/25-10/06. 10/02 MM was also good for DU's. The evening of 10/12 here was comparable to Connelly's w/almost nothing but WA-OR-BC groundwave and some Californians coming in. Clear channel heavies like YNX, WWL, and WBAP completely inaudible, and even KSL was barely there. KERN-1410 was noted overriding CFUN's ground wave. TP conditions continue to be poor, a big disappointment after the excellent '75-'78 era. This season could prove to be even poorer than the mediocre 1972-'75 seasons. (Portzer, WA)

NOVEMBER, 1978 (89.1)

			11	9	10	2				33	45	15	14	
5	2	9	11	6	9	6		15	10	9	12	12	16	13
<u>36</u>	<u>22</u>	8	6	5	5	4		<u>86</u>	<u>44</u>	<u>22</u>	<u>12</u>	<u>9</u>	<u>14</u>	<u>8</u>
11	18	12	21	10	14	<u>37</u>		25	24	18	44	23	25	<u>151</u>
<u>25</u>	<u>15</u>	4	2	3				<u>28</u>	<u>28</u>	11	<u>12</u>	10		

- 11/03 evening auroral, domestic skip in at sunset disappeared later, yielding fluttery but dominant LA's. 11/04 (early AM) domestic skip absent, LAs dominant; (evening) Africans in well, also LAs strong. Domestic skip on high end was in although weaker than usual, signals were surprisingly fade free. 11/05 mix of sporadic E and auroral conditions. (Connelly, MA)
- Even the auroras this season aren't very exciting. (Foxworth)
- Lots of LAs the evening of 11/06. (Bailey)
- Excellent east coast reception was noted the evening of 11/09 and was accompanied by Dakar-765 audio and decent reception of KFAR-660. The following night, easterners were completely wiped out, WBAP and WWL even inaudible and some western stations like KSL, KCRL, and KBOI were severely weakened. (Portzer, WA)
- TAs excellent on 11/20 around 2330 UT. I heard stations, especially on the low end, easily from the car that are only occasionally heard at home on the R-390. Many TAs were overwhelming adjacent domestics. (Connelly, MA)
- Conditions during the period 11/23-27 were poor at best w/only the high power FE stations noted. Some DU signals noted. If we can here so many signals and hets in those poor conditions, just think how much fun it's going to be when the winter anomaly loosens its grip on high latitude paths. (Seaver, CA)
- TA conditions were not to good during the first two days of the new frequency plan; the stations that were heard could be considered 'the big guns', TAs which should be heard easily most of the time. (Connelly, MA)
- Late Nov. conditions generally poor for foreign DX: weak but steady short skip domestics dominant, LAs only fair, TAs poor. (Connelly, MA)
- Auroral conditions for several nights in late Nov. (Townshend)
- An interesting pattern of reception this last week. The low band was not to good at any time, but the high band was pretty good around 11/27-12/03 w/poor midband. In between those dates, the high band wasn't too good, but the mid band was good. The new channels have made every morning a good morning to DX, not just MM. I've been getting up at 0530 every day to get in a half hour of DX before getting ready for work with considerable success in spite of lack of superior conditions. (Peterson)
- On 11/29 at 1008 it was necessary to null Colombia before I could hear anything from WLS! Same morning, XEQR was interfering heavily w/KITWO at 0902. Also heard at 0911, some LA u/KNX when latter was nulled, first time ever. The first 8 days after the TP frequency change have been featured by the most intense auroral conditions I have ever encountered in Denver. However, on those days, I've detected TP carriers on 15 frequencies (see unid carrier section, -bp). All under lousy conditions. What will it be like when conditions get all the way up to mediocre? (Martin, CO)
- It's interesting to note that, of the TP reporters this time those in CA reported mostly Asians w/very few DUs, whereas those in WA/BC, plus Gene Martin in CO and Russ Brown in MI, reported almost nothing but DUs. It would be interesting to speculate as to why that's the case. (Portzer)



APRIL, 1979 (88.2)

24	21	28	21	40	13	9
8	8	10	5	9	9	11
15	12	7	6	4	1	12
27	18	14	69	11	22	24
31	28					

58	45	63	83	58	20	17
15	15	21	14	13	22	15
22	21	19	11	12	11	29
58	38	23	111	15	41	44
79	41					

-No conditions reports for the month of April.

MAY, 1979 (106.2)

		14	16	5	5	7
7	9	7	13	7	18	10
7	10	11	5	3	10	20
12	11	25	12	23	19	20
14	9	39	12	4		

			29	25	14	15	13
11	17	14	17	14	24	15	
15	17	15	14	14	14	40	
24	25	55	19	43	58	30	
37	15	23	14	14			

-No conditions reports for the month of May.

JUNE, 1979 (115.1)

				3	4	
2	6	3	21	23	15	16
14	9	8	6	7	11	16
11	4	5	6	14	21	21
9	8	13	7	3	4	11

					14	13
10	15	12	25	39	17	16
18	17	14	9	14	14	24
19	15	16	13	23	42	27
27	17	24	17	12	16	15

-No conditions reports for the month of June.

## How to Pronounce Korean

There are probably many times that a Transpacific station is received with talk and them time pips and calls aren't very clear, but if the language was known it might help in IDing the station. After looking at past IRCA Foreign Logs, I found articles written about Japanese and Chinese, but not Korean, stations, so there might be some need for Korean language aids.

Korean is most easily recognized by the verb endings. Korean, like Japanese and unlike Chinese, usually ends every sentence with the verb. Without going into a great detail as to the meanings, the most common endings sound like hamnida, ..seumnida, ..shimnida, ..gamnida, ..imnida, etc. For questions, instead of "...da" for the syllable "...ga" is used. The above is the high level of speech, most commonly encountered on radio. Other levels of speech may be used occasionally.

For reference in pronouncing the names found in the WRTVH and the Foreign Log, the following is offered:

First of all, no system of Romanization of Korean is perfect and only approximates the English sound.

- i - sounds like long e sound in eat
- oi - sounds like "whe" sound in where
- o - without adjacent vowels sounds like o in cone
- eo - together in a syllable sounds like u in under
- a - sounds like a in father
- eu - no real English equivalent, but is somewhat similar to each other and is similar to e in error
- u - sounds like oo in moon
- k or g - are actually the same sound (don't confuse ng and g). Doesn't really sound like either k or g, but is somewhere in between
- j - is somewhere between English j and ch
- ch - is aspirated English ch
- b - is between English p and b
- p - is aspirated English p

Caution: there are other systems of Korean Romanization and this one is meant only for use in the WRTVH, Foreign Log, and my articles. The other letters sound similar to their English equivalents.

---- Bill Harms

## How to Pronounce Chinese

The following is a table of the Chinese phonetic alphabet showing pronunciation with approximate English equivalents. The first letters are those in Pinyin, the system presently used to convert Chinese into English. The letters in parentheses are the equivalent letters in the older Wade-Giles system.

- a (a) - a vowel as in far
- b (p) - a consonant, as in "be"
- c (ts) - a consonant, as "ts" in "its"
- ch(ch) - a consonant, as "ch" in "church", strongly aspirated
- d (t) - a consonant, as in "do"
- e (e) - a vowel, as "er" in "her", the "re" being silent; but "ie", a diphthong, as in "yes", and "ei", a diphthong, as in "way"
- f (f) - a consonant, as in "foot"
- g (k) - a consonant, as in "go"
- h (h) - a consonant as in "her", strongly aspirated
- i (i) - a vowel, two pronunciations: 1) as in "eat", 2) as in "sir" in syllables beginning with the consonants c, ch, r, s, sh, z, and zh.
- j (ch) - a consonant as in "jeep"
- k (k) - a consonant, as in "kind", strongly aspirated
- l (l) - a consonant as in "land"
- m (m) - a consonant, as in "me"
- n (n) - a consonant, as in "no"
- o (o) - a vowel, as "aw" in "law"
- p (p) - a consonant as in "par", strongly aspirated
- q (ch) - a consonant as "ch" in cheek
- r (j) - a consonant pronounced as "r" but not rolled, or like "z" in "azure"
- s (s,ss,sz) - a consonant, as in sister; and "sh" (sh) a consonant, as as "sh" in "shore".
- t (t) - a consonant, as in "top", strongly aspirated
- u (u) - a vowel, as in "too", also as in the French "u" in "tu" or the German unmlated "u" in "Munche"
- v (v) - is used only to pronounce foreign and national minority words and local dialects
- w (w) - used as a semi-vowel in syllables beginning with "u" when not preceded by consonants, pronounced as in "want"
- x (hs) - a consonant as "sh" in "she"
- y - used as a semi-vowel in syllables beginning with "i" or "u" when not preceded by consonants, pronounced as in yet.
- z (ts,tz) - a consonant, as in zero; and "zh", a consonant, as "j" in "jump".

Source: Radio Peking

## How to Pronounce Spanish

The following is a listing of the letters of the Spanish alphabet and their pronunciations. These letters are sometimes aired as a station's call letters at station identification time:

A	ah	G	heh	M	EH-meh	S	EH-seh	X	EH-kees
B	beh	H	AH-cheh	N	EH-neh	T	teh	Y	Yeh, or
C	seh	I	ee	O	oh	U	oo		EH-gre-
D	deh	J	HO-tah	P	peh	V	beh		eh-geh
E	eh	K	cah	Q	coo	W	doh-bleh-OO,	Z	SEH-teh
F	EH-feh	L	EL-leh	R	EH-reh		or,doh-bhe-BEH		

### Phonetic Pronunciation (i.e. when used in words)

Pronounced as in English are the letters: B, C, D, F, M, N, P, T, X

A	- always "ah".	QU	-- as K in "key"
E	- always "eh"	R	- as R in "three"
G	- as g in "go", before A,L,O,R,U	RR	- "rrrrrrrrrrr"
	as j in "jose", before e, i	S	- always "SS"
H	- like h in "hour" or "honor"	U	- always "oo"
I	- always "ee"	V	- as b in "band"
J	- like in "jose"	Y	- as y in "yard"
L	- as L in "value"	Z	- as s in "sign"
LL	- as y in "yard"	CH	- as ch in choose
O	- always "oh"	N	- as n in "onion"

# PAN AMERICAN LOGGINGS

- 525.5 COSTA RICA, Cartago, TICAL, R. Rumbo, 1010 1/29, best possibility here w/man and woman talking in SS. Poor audio but looped right, faded. (Nick Hall-Patch, BC) (See following tips - ed)
- 526 COSTA RICA, Cartago, TICAL, 0030-0100 12/2 rising occasionally from het w/splatter of nx 0100. (Gerardi, IL)  
+Now transmits 24 hours with increased power. (NZDXT 12/78) (WRTH-79 says 1 kw. ed)
- 527 at COSTA RICA, Cartago, TICAL, likely the one w/bongo-thunking mx and unreadable announcements by man in SS 0531 11/3 and again 0501 11/9. Noted on 527.4 11/3 and on 527.2 11/9. (Bytheway, WA)  
+0745 1/12, good w/Latin vocals. (Tomer, CA)
- 527.2 COSTA RICA, Cartago, TICAL, man talking between lively SS records 0635 11/10. "R. Rumbos" mentioned between songs 0647, spot for something "...en Cartago" 0723, along w/mention of R. Musical. (Bytheway, WA)  
+0225 5/16, down slightly from 527.4. (Thomas, FL)
- 527.4 COSTA RICA, Cartago, TICAL, 0301 3/22, at best level of recent weeks w/sedate male announcer, upbeat Latin mx, much static. (Thomas, FL)
- 527.5 COSTA RICA, Cartago, TICAL, fair to good w/SS talk and Latin mx, and garbled mention of "Rumbos" 0742 11/8. (Everitt, OK)  
+Assumed to be the carrier looping to Latin America 1100 11/20, based on frequency. (Peterson, CA)  
+Fair w/festive Latin mx 0545 11/23. (Connelly, MA)  
+Weak signal but good audio due to lack of sloop and unusually quiet power mains this night; conventional sounding Latin mx 0747 12/14. Again 0602 12/17 w/Latin mx and SS talk. (Everitt, OK)  
+0835 12/16, and other nights bad het from upper side-band of beacon 'UUP' audio on 527. (Foxworth, NY)  
+0807 1/8, weak but steady w/monotonous Latin mx. (Everitt, OK)
- 535 GRENADA, Morne Rouge, R. Grenada good w/steel drums and Trinidad-style vocal 0201 7/9. (Connelly, MA)  
+Weak w/male vocal 0103 7/30. (Connelly, MA)  
+Heard 10/29 and 10/30 at sign-off 0230 which seems to be their regular hour now. Fairly good signals some times but suffers from TVI. Sounds like is in 5 kw range. (Foxworth, NY)  
+2350-0005 2/10 and 2/11, presumed the one w/vocal mx (seemed rather like chanting), very weak, no ID on the hour. (Straus, NJ)  
+2335 4/7, poor to fair w/woman in EE. (Connelly, MA)
- 535 ? UNID, weak carrier detected here several times since last summer around 0300. Not looped Grenada but rather about 160°. Never any audio. No ideas. (Thomas, FL)  
+1008 11/24, poor signal with man talking in SS, 1010 fade. (Poda, OH) (I've never heard a Latin American on 535 Lou, keep checking - es)
- 540 ARGENTINA, Tartagal, LRA25, R. Nacional, new, 5 kw. (Arctic, 11/17)
- 540 COLOMBIA, Bogotá, HJKA, Emisora Horizonte, 0519-36 1/31, Latin pops, ads, male announcer, excellent, tape sent. (Straus, NJ)  
+0930 3/10, weak w/SS mx, man and woman talking, mentions of 'Republic' and 'Bogotá.' (Mittman, CA)  
+0652 4/8, good w/"Horizonte" ID by a man, then lush Muzak. (Connelly, MA)
- 540 DOMINICAN REPUBLIC, Santo Domingo, HICM, R. ABC, 0420 1/3, good w/SS vocals and usual Dominican stuff. (Straus, NJ)

- 540 MEXICO, San Luis Potosí, S.L.P., XEWA, LV de América Latina, SS talk by man 0435 7/17 fair. (Townshend, DC)  
 +Good, dominant, w/mentions of "servicio Mexicano," SS ad for firm in Monterrey, XEW mention, then telephone numbers given 0512 9/30. (Connolly, MA)  
 +10/9 0505 loud in SS w/"LV de América Latina" ID. (Beauregard, QU)  
 +0434-0446 11/24 o/under YVOV and YNOW w/ranchera mx, male announcer, ID. (Gerardi, IL)  
 +12/18 good w/kids talking or spot, wild and crazy DJ, "Birdland" jazz instrumental 0836, spots and ID as "XEW en la ciudad de México." Into bells 0840. (Mount, NJ)
- 540 NICARAGUA, Managua, YNOW, fair w/"R. Corporación" ID, then mellow SS vocal 0415 8/30. (Connolly, MA)  
 t +Was likely the SS w/what sounded like an interview between man and woman 1140 11/6. (Peterson, CA)  
 +Was in w/fair signal, female announcer, and mx 1055 11/20. (Peterson, CA)  
 +0434-0446 o/under XEWA/YVOV 11/24 w/soft Latin mx, ID "R. Corporación" 0430. (Gerardi, IL)  
 +1050 2/5, "R. Corporación" mentioned by a man after TC, ads. Fair, dominates channel. (Hall-Patch, BC)  
 +0553 2/12, s/off w/"R. Corporación desde Managua, capital de Nicaragua, buenas noches," into NA?, 0556 gone. (Straus, NJ)
- 540 URUGUAY, Colonia, CW1, R. Colonia, heard here, officially listed on 550. (DXCB, 3/78)
- 540 VENEZUELA, Villa de Rosario, YVOV, R. Perijá, 0805-0820 10/16 excellent signal 95-100% dominating channel, Latin American MoR vocals, SS announcer, ID. (Straus, NJ)  
 +10/29 0530 mx, then promo for "elecciones" and "Radio Perijá, con la mejor música" ID. (Beauregard, QU) (Venezuelan elections were scheduled for 12/2 the last I heard, a Saturday. Traditionally Venezuelan elections have been held every 5 years on the first or second Sunday in December. So it would probably be a good idea to keep your ears open both SM 12/2 and MM 12/3. In past years many Venezuelan stations have stayed on after their usual s/off times w/election results - bp)  
 + "R. Perijá" fighting it out w/XEWA and YNOW 0434-0446 11/24 w/interview and nx. ID 0445. (Gerardi, IL)  
 t +1020 11/24, 2 stations heard w/various SS talk, mx. (Poda, OH)
- 540 ? UNID, R. Velita (?) ID heard, then 2 march pieces played (NA's?), then s/off 0200 7/9. CBT dominant after s/off of the Latin. (Connolly, MA) (If you have a tape of it I might be able to ID the anthem - bp)
- 545 DOMINICA, Roseau, R. Jumbo, has been off the air for some time now. (Arctic 6/2)  
 +Still off the air 6/25. (Connolly, MA)  
 +Has been noted back on the air. (Arctic 7/14)  
 +2330 12/17, now called "R. Calypso," good signal until 0304 s/off 12/18, all FF. (Foxworth, NY)  
 +0105 12/19, w/reggae mx, FF talk, very good, no ID heard. (Connolly, MA)  
 +2309 1/10, good w/disco hit "If I Can't Have You." Also w/Linda Ronstadt song 2214 1/13. (Connolly, MA)  
 +0304 1/17, s/off w/details first in FF, then EE. EE was obviously taped w/"R. Caribbean International" ID and frequency as 840 khz (St. Lucia frequency). S/on given as 0930. (Thomas, FL)  
 +2306 1/27, fair w/US pops, then FF talk. (Connolly, MA)  
 +2318 2/10, fair to good w/fast FF talk. CFNB-550 nulled. (Connolly, MA)
- 545 ? UNID, 0027 12/22, and several evenings since, w/occasional muffled audio. Accurate looping not possible due to metal nearby at this location. Has R. Jumbo decided to make a holiday comeback, or is someone else? (Everitt, OK) (Indeed Jumbo is back, heard here several times lately - es)
- 550 GUATEMALA, Guatemala, TGRV, R. Cinco Sesenta, 0230 5/10, atop Rebelde w/pop Latin mx. (Thomas, FL)
- 550 JAMAICA, Montego Bay, 0240 5/25, poor w/CMAN. "RJRW" ID. (Thomas, FL)
- 552.4 ? UNID, 0408 1/3, w/romantica mx, good audio but no ID before 0445 fade. Costa Rica possible. (Thomas, FL)

- 555 NICARAGUA, Chinandega, YNS, R. Tic Tac, 0303 4/18, at fair level w/sedate SS vocal. (Thomas, FL)
- 555 SAINT KITTS, Basseterre, ZIZ, good w/festive reggae mx having heavy bass line 0156 7/9. (Connelly, MA)  
 +Good w/on-the-air bingo or lottery - man in Caribbean EE - numbers were read, frequent long pauses; WGAN-560 nulled 0101 7/30. (Connelly, MA)  
 +Fair w/EE talk by man interspersed w/mx 0057 9/27. (Connelly, MA)  
 +Loud w/typical Caribbean calypso vocal 0007 10/29. (Connelly, MA)  
 +Fair w/accented EE and ID 0300 11/1. The Tuesday night program was Caribbean mx. (L. Morby, NY)  
 +Good signal w/poor audio 0928 11/6. (Everitt, OK)  
 +Very good w/heavily accented EE talk 0735 11/8. (Everitt, OK)  
 +0205 1/23, fair to good level, w/EE talk by a female, low audio level. (Connelly, MA)  
 +2325 2/8, very good w/woman EE nx. (Straus, NJ)  
 +0502 2/10, running potent open carrier. (Connelly, FL)  
 +0318 3/23, poor w/female announcer and calypso-like mx. Thought they had 0300 s/off? (Thomas, FL)
- 560 GUYANA, Georgetown, GBS, 0100 1/1, GBS ID, anthem, 9 PM TC, atop the frequency w/moderate interference in auroral cx. No definite 760 reception, however. (Foxworth, NY)
- 565 ? UNID, muffled SS male here 0325 9/10. Very poor and looped Central America. Again, no ideas. (Thomas, FL)
- 570 CUBA, Santa Clara, CMHI, 10/9 good w/no sign of WKBN 0457, mentioned "R. Liberación." //590, 600, 630, 640, 720 also heard fair to very good this MM. (Mount, OH)  
 a + "R. Rebelde Cadena Nacional" ID and s/off w/anthem 0300 11/29 easily separable from WNAX and what was probably Costa Rica-575. (Nittler, NE)  
 +0307 1/12, all over WMCA "Aquí R. Rebelde," non-stop SS talk, crowd noises. (Connelly, MA)
- 574 t CUBA, Santa Clara, assume CMHI here from 570, //590 w/what sounded like a baseball game. Hetting Costa Rica-575 11/29 0330-0341. (Cartwright, PA)
- 574 EL SALVADOR, San Salvador, YSZ, 0600 1/6, audio in and out almost nightly around 0600. Noted s/off at 0630 w/EL Salvador NA, but on past 0700 1/7, w/"R. Nacional" and "R. Cadena Central" slogans. (Thomas, FL)  
 +Has not been noted here since mid-January and also not on 575 after TIRN s/off so apparently a drifter (from 580?) and not a new station. (Thomas, FL)  
 +0612 4/19, back again w/"la música ranchera," s/off 0627 w/national anthem but no call or location. (Thomas, FL)
- 575 COSTA RICA, San José, TIRN, R. Nacional de Costa Rica, heard here for the first time from 0315 9/15 - classical mx, ID at 0322. (Stanbury, ON)  
 +New here, now running regular programs w/imposing signal... SIO 545 against local WVMI-570. First heard 0512 9/23 w/Latin American program. Surprising. (Baskind, MS)  
 t +10/9 0255, fair, SS, "Norte América," "música," spoken by man. Some mx and man talking again 0257, "programa de...", then into piano mx 0258. Also 10/13 0420 poor, piano and violin mx, 0422 man in SS, 0425 same kind of mx, 0428 man talking. (Poda, OH)  
 +10/17 0500 poor w/flute mx, also 10/24 0350 fair to good w/woman singing. 0355 man in SS, then slow song by a female and fades. Both heard at work inside a steel frame building. (Poda, OH)  
 +Suspected w/enjoyable modern jazz program at good level, then SS talk, no slogans or IDs discernable 0512-0520 11/4. (Connelly, MA)  
 +Very good w/SS religious program 0248 11/6. (Everitt, OK)  
 +Good w/soft mx, then man in SS w/mention of "R. Nacional," followed by "Days of the Old School Yard" by Cat Stevens. After that the announcer said "buenas noches;" s/off w/electronic mx, then OC 0600 11/23. (Connelly, MA)  
 +Tremendous signal w/religious choral mx reminiscent of Handel's Messiah 0512 12/10. (Connelly, MA)  
 +Very good 1110 12/18 w/lots of SS talk, apparently a program guide, with occasionally interjected bars of mx, including "White Christmas." (Everitt, OK)  
 +0204 12/22, 0449 12/29, w/Latin MoR mx, light classical mx, low modulation. (Everitt, OK)

- +0510 1/3, better than usual, w/classical mx. (Thomas, FL)
  - +0535 1/8, excellent signal, w/classical mx, long SS announcement, more classical at 0535. (Everitt, OK)
  - +0446 2/10, excellent w/SS talk, SS vocal (hymn?), weak 576 khz TA het in the background. (Connelly, MA)
  - +0545 2/20, w/Simon and Garfunkle song. 0602 s/off. (Thomas, FL)
  - +0448 3/11, loud w/wierdly-accented SS talk (sounded almost PP). (Connelly, MA)
  - +1005 3/26, WRTH lists 1100 s/on. (Thomas, FL)
  - +0433 5/5, loud w/discussion program. (Connelly, MA)
- 575 ? UNID, carrier 0445, 0502 10/28, occasionally fading up to slow piano mx (classical?). Suspect Costa Rica. Carrier often noted since. (Nick Hall-Patch, BC)
- +0125 1/10, instrumental mx, SS talk heard, 2 ID's but couldn't pin them down, sounded like "Ach-A-de-Oness," and "R. ? de Capital," probably Costa Rica. Fair signal. (Curtis, VT)
- 580 ? CUBA, CMJM or CMKF 0305 3/22, poor w/sports event, //other Rebelde stations. New for me, whichever. (Thomas, FL)
- 580 PUERTO RICO, San Juan, WKAQ, R. Reloj, noted w/San Juan nx, atop several other Latin Americans 0107 6/4. (Connelly, MA)
- +Good w/record ad (bits of SS vocals), WKAQ 4-note IS, then rapid-fire SS talk about traffic 0203 7/9. (Connelly, MA)
  - +Good 0323 8/28. Totally dominant w/ID jx "WKAQ R. Reloj," then SS talk 0117 8/29. (Connelly, MA)
  - +Heard from around LSS each day. Still uses "WKAQ" jx but is "R. Reloj," all nx whenever heard. Frequent IDs and TCs, e.g. 10/12 weak 2240 w/WDBO nulled. "WKAQ" jx 2256, faded up by 2302 "WKAQ R. Reloj" jx, 2305 "La hora siete cuatro," TCs generally accurate but sometimes a minute off per WWV. (Grossman, FL)
  - +Good w/"R. Reloj" ID, then SS talk about Roberto Clemente and US baseball teams 0506 11/24. (Connelly, MA)
  - +0547 2/11, dominant w/"WKAQ R. Reloj" jx, non-stop SS talk about business and industry. (Connelly, MA)
  - +0648 4/8, atop WTAG w/"KAQ R. Reloj" IDs, then fast paced SS nx with several announcers. (Connelly, MA)
- 590 CUBA, San Antonio de las Vegas, CMW, has returned to 590. (Arctic 6/2)
- +0729 0655, songs, then IS 0700 and ID "La voz de Cuba...nuestra dirección..." (address given). (Beauregard, QU)
  - +Over/under WEEI 0536 11/4. Usual Cubans also in on 570, 600, 630, 640, 670, 690, 720, 780. (Connelly, MA)
  - +0646 4/8, bombing out WEEI w/Cuban folk mx program. (Connelly, MA)
- 590 MEXICO, México, D.F., XEPH, out of the mess occasionally 0435-0455 10/14. ID of panther growl and squeal from some kide between records. (Worst, TX)
- 595 DOMINICA, Roseau, fair w/Lou Rawls song, then man in Caribbean EE, followed by more soul mx 0336 6/4. (Connelly, MA)
- +Fair to good o/WEEI-590 slop; EE newscast 0204 7/9. (Connelly, MA)
  - +Just after s/on 0930 8/7 w/religious program of some sort, lots of hymns. Seemed to be a pre-recorded US-made feature. Bad Cuban slop; 590 and 600 pests. (Baskind, MS)
  - +Poor w/light Caribbean mx in CMW/WEEI-590 slop 0110 8/29. (Connelly, MA)
  - +Fair and completely free of slop from 590/600 Cubans. Caribbean cx good 0147 10/13. EE rock and female announcer. (Thomas, FL)
  - +Very good w/EE religious program, American accented speaker 0936 11/6. (Everitt, OK)
  - +Excellent w/EE religious program 0105 11/9. (Everitt, OK)
  - +0209 12/22, EE MoR female vocal. (Everitt, OK)
  - +0115 1/15, British accented talk about science and engineering rising above noise, followed by Carribean accented DJ w/"5-9-5." Also noted 0053 1/19. (Krueger, TX)
  - +0225 2/23, poor w/island rhythms and much static. (Thomas, FL)
- 600 COLOMBIA, Barranquilla, HJHJ, R. Libertad, heard w/something about "más potente de Colombia," dominant 0407 6/3. (Connelly, MA)
- +Noted w/Cuba, "R. Libertad" ID 0543 11/24. (Connelly, MA)
  - +0709 2/10, briefly atop Cuba, ID, then uptempo SS vocal. (Connelly, MA)
  - +0443 3/11, good w/upbeat Latin mx, then man w/repeated IDs. (Connelly, MA)
  - +0508 5/6, atop Cuba, Colombian accordian mx and SS vocals. (Connelly, MA)

- 600 CUBA, San Germán, CMKV, light opera //630, 640, fair w/Colombia nulled 0407 8/30. (Connelly, MA)  
 +0451 2/10, o/other Latin American and weak 601 khz het, loud w/SS news //590. (Connelly, MA)
- 600 GUATEMALA, Pueblo Nueve Tiquisate, TGRC, R. Campešina, 1038 6/12 o/weak Cuban w/slogan ID, TC, commercials telling us which brand of flour is "más económica," etc. (Baskind, MS)
- 600 SURINAM, Paramaribo, R. Paramaribo, atop w/East Indian mx, then Hindi talk 0038 6/4. (Connelly, MA)  
 +Dominant w/East Indian talk, atop SS station 0052 7/30. (Connelly, MA)  
 +Noted w/oriental-sounding talk (possibly a religious program) o/Colombia and Cuba 0109 8/29. (Connelly, MA)
- 600 VENEZUELA, Cumaná, YVQB, R. Sucre, o/Cuba. S/off w/Venezuelan NA 0355 11/24. (Connelly, MA)
- 605 t ECUADOR, Guayaquil, HCRE2, R. Huancavilca, suspected, SS talk and mx weak 0605 11/23. (Connelly, MA)  
 t +0354 4/5, SS male vocals, have yet to hear a positive ID. (Thomas, FL)
- 605 ? UNID, 0930 1/1, in and out w/rhythmic Latin mx. 0240 1/4, rough loops to Ecuador, no ID. (Thomas, FL)
- 608.8 ? HONDURAS, loc unkn, HR??, R. América, 0725-38 4/1, non-stop marimba mx. WRTH lists 2 Honduran R. Américas on 610 and in different cities so I don't know which one this is. (See 610) (Thomas, FL)
- 609.2 ? UNID, 0548 3/19, poor carrier level, loops Caribbean. (Thomas, FL)
- 610 COLOMBIA, Bogotá, HJKL, 0131 1/26, SS talk by a man, mentions of the Republic of Colombia, fair o/u WIP. (Townshend, DC)  
 +0655 4/8, good w/SS talk, fanfares, ID as "RCN, la radio de Colombia," then more "R. Suceso, RCN" IDs. (Connelly, MA)
- 610 CUBA, Trinidad, CMHV, R. Rebelde, //600, 590 0614 7/8 w/poor signal and incredible interference from multiple domestics and Honduras. (Baskind, MS)  
 +Fair 0935 9/17 w/Rebelde feed //590, 600. (Baskind, MS)
- 610 ? GUATEMALA, loc unkn, TG??, 11/12 0352 w/mentions of Guatemala, "en Guatemala," etc. ID is not R. Senorial, the listed Guatemala. (Hutton, GA)
- 610 HONDURAS, Tegucigalpa, HRLP, noted w/promo 0117 7/13: "En la América... la Fabulosa!" Fair overall. (Baskind, MS)  
 +In better than usual 0126 10/21 w/many IDs and Manilow's "Copacabana" in SS. (Thomas, FL)  
 +0400 3/23, good w/"R. Américas" IDs and "este capital" and Tegucigalpa mentions. Nx and talk w/shouts, no call given but HRLP presumed. (Thomas, FL)
- 610 TRINIDAD AND TOBAGO, Port-of-Spain, VPL6, National Broadcasting Service, first noted 0211 9/3 topping channel. Regular. (Taylor, Bermuda)  
 +Heard quite a few times on varying dates at levels ranging from very poor to very good, at 0400 s/off following mx program and local nx capsule from the NBS newsroom. Details (technical) are sometimes read, sometimes not. Reception at 0400 10/24 was best and at that time they mentioned fifty kilowatts of power (this is a new development, previously reported as 10 kw) and 2 FM frequencies. Sermon and NA 0404 and was mixed w/CHNC who also s/off then, so not dependent on true Auroral cx. This should be more widely reported on the East Coast. (Foxworth, NY)  
 t +Possibly the one w/Caribbean-type steel drum mx for about 30 seconds over the pack 0117 11/11. The usual Latins - Honduras, Cuba, etc., were all accounted for. Otherwise nothing from the new transmitter. (Baskind, MS)  
 +Now is 50 kw. (MWN 12/78)  
 +0129 12/17, good w/religious service, fair amount of fading later. Also excellent 0200 1/1, w/"Top Platters of '78" to midnight, reggae mx and calypso, Caribbean accented announcer, fady. (Foxworth, NY)  
 +2339 4/7, o/under WGIR; Muslim culture program (chanting). (Connelly, MA)
- 615 ? UNID, carrier looping SA, no audio distinguishable. Ecuador? 0925 11/6. (Everitt, OK)

- +Here again, carrier in slop w/occasional mx 0740 12/14. Mx not similar to most Latin mx, more like US instrumental "Beautiful" mx. Could be Ecuador, although I can't seem to get a good bearing due to slop. (Everitt, OK)
- +0453 12/29, weak carrier and occasional snatches of Latin mx in slop. (Everitt, OK)
- +0518 1/3, very weak Latin here. Checked for SW // on 4910.5 but no good. (Thomas, FL)
- 620 CUBA, Moa, CMKI, 6/25, unusual to hear anything atop YNM but this Radio Rebelde outlet audible 0300 w/EE disco //590, 600 etc. (Thomas, FL)
- +Cuban announcer w/run-on political talk. Not carrying same programming as 590, 600, 640, 670. Weak and intermittent w/interference from WJDX, WSUN, and others 10/21 0805. (Landry, LA)
- +0557 3/5, SS talk //590, 600, 630, 640. (Townshend, DC)
- 620 MEXICO, México, D.F., XENK, R. Seis Veinte, ID w/call letters w/"Shangri-la" theme in background. US and Latin pop mx. Signal fair to poor with heavy interference and fading 10/30 0507. (Landry, LA)
- +0645 12/31, call and slogan during s/off Sunday morning. (Krueger, TX)
- 620 NICARAGUA, Managua, YNM, MoR SS mx, "R. ... Nacional Nicaragua," frequent ID. Good to poor w/interference from WJDX, WSUN, and unid SS 10/1 0235. (Landry, LA)
- +0327 12/1, atop w/"R. Difusora Nacional" ID, including MW and SW frequencies. Rock mx. (Feltman, PA)
- +0648 12/31, w/slogan ID, possibly 24 hours now, still on 0810. (Krueger, TX)
- 620 ? UNID, 0653 12/27, 0725 12/19, 2 Latin American stations battling here. Latin mx, vocals, "La Emisora Nacional" heard 12/27 ID by a man, possibly YNM, but I thought they were Radiodifusora Nacional. (Everitt, OK)
- (Emisora and Radiodifusora mean station or radio station, same thing - es)
- 625 COSTA RICA, San José, TIJC, R. Cucú, noted w/fair signal 0602 11/17. Slow-paced SS song. At 0605 a man yelled "R. Cucú" followed by (what else) 2 cuckoos. (Hall-Patch, BC)
- +0530 1/3, good w/operatic SS male. (Thomas, FL)
- +0542 1/8, Latin mx, 0547 w/"R. Cucú" ID by high-voiced man followed by 2 cuckoos. (Everitt, OK)
- +0530 2/19, not much except "coo-koo's." (Straus, NJ)
- 625.3 COSTA RICA, San José, TIJC, 0553 2/20, fair w/mellow ballads and R. Cucú" ID. (Thomas, FL)
- 630 COLOMBIA, Manizales, HJFD, R. Manizales, heard w/ID u/Honduras and assorted pesky domestics 0315 11/9. Very poor overall. (Baskind, MS)
- 630 CUBA, Santa Clara, CMHQ, 0423 6/11, SS talk by a man, signal bombing in like a local, pushing WPRO to back burner. (Townshend, NJ)
- +Excellent, way better than //640; SS light opera 0406 8/30. (Connelly, MA)
- t +Probably the source of Latin mx 0924 10/2; 0926-0927 an 11-note IS on chimes was repeated several times. Haven't yet decided or determined if they're La Voz de Cuba type. Very weak in jumble w/CKOV nulled. (Bruce Portzer, WA)
- +Good o/3 others 0012-0029 10/16 w/what sounded like nx commentary. ID at 0029. (Worst, TX)
- +Was indeed my tentative report here recently. The same chimes were noted on CMJN-780 0730 10/22. (Portzer, WA)
- +0346 1/12, //640 o/WPRO w/male operatic vocal. (Connelly, MA)
- 630 ? HONDURAS, loc unkn, HR??, R. América has a new outlet here. First heard 0015 11/13 running their "ultima hora" program, which is a nx and sports summary. Announcer called down the cadena line to "R. San Pedro, San Pedro Sula" (see 850) informing the station of a special game feature 0017. (Baskind, MS)
- 630 ? UNID, "R. Hit!" ID and SS talk 0316 11/6 u/KXOK, R. Progreso. Must be a Mexican...they're the only Latin country Americanized enough to use an EE word in this context. (Baskind, MS) (Puerto Rico is more Americanized than México. I don't know the slogan and format of WQBS, though. - bp)
- +Almost has to be a Guatemalan by this hour (1139) 11/26. Man in hyper-thyroid SS yelling "atención, atención" and keying loud air alert type sirens. Talk, then process repeated. (Hutton, GA)

- 639.8 COLOMBIA, Santa Marta, HJBI, 0044 4/8, suspected w/SS mx, RCN IDs, splittable from Cuban. (Connelly, MA)
- 635 t ECUADOR, Quevedo, ECHA2, 0410 3/1, possibly the station here w/what sounds like Andean flute mx but unreadable voice. (Thomas, FL)
- 635 ? UNID, 0615 12/31, weak carrier w/smashes of Latin mx in lulls of slop. (Everitt, OK)
- 640 CUBA, La Habana, CMQ, dominant w/"R. Liberación" ID, SS talk by man and woman 2359 9/28. (Connelly, MA)  
 +10/16 0030-0159 w/play of some kind w/lots of gunfire and horses, but then the last half sounded more like a soap opera. ID 0159. TGW started taking over 0156, even though they were nulled. (Worst, TX)  
 +0500 10/28, mention of "R. Liberación" and chimes. KFI nulled. There was a carrier on 639.8 hetting KFI. Maybe this? (Hall-Patch, BC)  
 +0510 3/5, US top-40 mx, such as Olivia Newton-John, carried by the R. Liberación network. (Townsend, DC)  
 +0437 3/26, loud w/SS male o/weak jumble and buzz-like het. (Portzer, LA)
- 640 GUADELOUPE, Arnouville, to good peaks w/man in FF 2305 10/22. (Connelly, MA)  
 +2333 4/7, loud w/FF tele-talk program. (Connelly, MA)
- 640 GUATEMALA, Guatemala, TGW, marimba mx, then "R. Nacional" ID. More marimba mx, male announcer w/Godlike voice occasionally reading what sounded like poetry over mx. Then twice, "En Guatemala, TGW, La Voz del Pueblo." Some fading, mixing w/CMQ, but otherwise good. Immediately after this, a rather effective jamming signal replaced programming. 8/26 0155. (Landry, LA)  
 +Is "La Emisora del Pueblo." (Baskind, MS)  
 +9/2 0128, talk in SS, ID "TGW" 0129, "R. Nacional" and "La Voz del Pueblo" 0130, followed by talk on Guatemala w/portions of instrumental mx. Much more reliable here than CMQ, which was easily nulled on the wedge loop. (Worst, TX)  
 +9/4 1130-1200, w/local KFI off. SS mx fluttered up and down w/"Guatemala" shouted out a few times in rapid succession. Later there were a couple of "R. Nacional" IDs and one quick TGW ID. (Mittman, CA)  
 +Blasting in 1100 9/11 w/"TGW, R. Nacional de Guatemala" ID, then faded. In again 1130 w/NBC style chimes, singing IDs, IDs, promos and lots of fanfare. (Tomer, CA)  
 +10/9 first noted organ mx u/CMQ not common to 630 // 0500. By nulling Cuban, heard chimes and announcement "En Guatemala, TGW, La Voz del Pueblo" repeated w/chimes several times. Then announcement which may have been s/off in addition to bragging. Then said "Buenas noches, Guatemala. Buenas noches, América" 0405, followed by jingle, then NA. Nothing after 0407. Good signal, little noise. CMQ well nulled. (Paul Mount, OH)  
 t +I'm 99% sure was the one w/marimba mx in and out in KFI null 0409-0530 10/22 but no ID or location heard and few announcements of any sort. (Bruce Portzer, WA)  
 +TGW, la emisora del Pueblo" ID 0200 11/29 well o/KFI for more than an hour. (Bill Nittler, NE)
- 640 SURINAM, Paramaribo, RADIKA, dominant and loud w/East Indian style of mx, then man in unfamiliar language; audio bassy-compressed, somewhat muffled, 0035 6/4. (Connelly, MA)  
 +Atop het-growl w/Oriental-sounding talk and mx 0040 7/30. (Connelly, MA)  
 +w/exotic Mid-east style mx, then female talking (Hindi?), just o/the pack. Guadeloupe / YVQO / CBN hiding in there (too early for Cuba) 0010 8/27. (Connelly, MA)  
 +0900 1/22, w/East Indian mx, Hindi talk, "RADIKA" IDs, excellent, first time, all over Cuba. (Straus, NJ)  
 +2325 2/10, w/man in Hindi atop Venezuela and host of others, low growl present. (Connelly, MA)  
 +2341 4/7, w/Hindi talk overtaking Guadeloupe, low growl present. (Connelly, MA)  
 +0024 5/6, atop w/Hindi talk. (Connelly, MA)
- 640 VENEZUELA, Puerto la Cruz, YVQO, good w/fast SS talk, "Ondas Porteñas" ID 0001 8/28. (Connelly, MA)  
 +0800 12/4, w/SS talk, Latin mx. (Beauregard, QU)

- +Loud w/"Summer Nights" from "Grease," then ID and SS talk 0105 12/13. (Connelly, MA)
- +0256 1/12, beer ad, mentions of Margarite and Puerto la Cruz, ad for Musk cologne. (Connelly, MA)
- +0007 1/28, loud w/discussion of Venezuelan affairs. O/Cuban and another SS Latin American. (Connelly, MA)
- +0110 5/18, good w/"Ondas Portefias" ID, SS talk by a man, mx. Most Latins were blocked by domestics as short skip (2-800 km range) dominated. (Connelly, MA)
- 640 ? UNID, 0210 11/14, man in SS through CMQ and nulled TGW w/very weak signal and fast Latin mx. (Baskind, MS)
- +0320 3/21, three stations mixing w/TGW on 639.8, CMQ on 640.0, and UNID on 640.3. The 640.3 station a carrier only (noted on 640.1 0300 3/14), probably same station reported by Connelly below. (Thomas, FL)
- 640.5 ? UNID, 0548 2/11, Latin American het. (Connelly, MA)
- 640.6 ? UNID, 0853 1/3, good signal 600 hz high on Cuban. CMQ was 30 db stronger using 1 khz mechanical filter. (Everitt, OK)
- 645 ? UNID, 0736 12/27, carrier and Latin mx poking through, audio rough due to slop and unusually high atmospheric noise. (Everitt, OK)
- 650 COSTA RICA, San José, TIBAS, R. Monumental, w/screamed ID blasting interfering Latins 0052 11/27. (Baskind, MS)
- +0520 12/16, good signal w/man reading mx, ads, mention of "Noticias Monumentales" gave me ID on this. (Hall-Patch, BC)
- t +0729 1/8, good signal w/Latin mx and only slight co-channel interference. Possibly "R. Monumental" mentioned, but not clear. (Everitt, OK)
- 650 CUBA, Santiago de Cuba, CMKU, R. Liberación, //640 1028 8/28 but way u/WSM. (Hutton, GA)
- +Male announcer in run-on talk w/taped reports. //CMKI-620. Very poor w/fading, rapid flutter, displaced at times by WSM 11/22 0515. (Landry, LA)
- 650 DOMINICAN REPUBLIC, Santo Domingo, HIAT, R. Universal, u/WSB w/Latin mx 0815 7/13. (Baskind, MS)
- +Rolling o/other Latins; exciting Latin mx, then SS talk, ID "R. Universal, Santo Domingo" 0405 8/30. (Connelly, MA)
- +Latin mx by female 0410 9/21 fair o/WSM and slight WNBC-660 slop. (Townshend, DC)
- +Atop channel w/"R. Universal" ID, TC, slow male SS vocal 0107 9/27. (Connelly, MA)
- +O/YVLH, WSM w/"Universal" ID, then "Disco Inferno" 0001 10/29. (Connelly, MA)
- +Good w/"Still the Same" by Bob Seeger, then "Universal" ID, SS ads 0443 11/16. (Connelly, MA)
- +Dominant w/SS ads and "R. Universal" mention, then mx 0504 11/24. (Connelly, MA)
- +0300 1/12, way o/WSM, disco mx, then "Universal" ID and ad barrage. Het on low side. (Connelly, MA)
- +2354 1/24, good w/disco then local ads, "Universal" ID, atop YVLH / WSM. (Connelly, MA)
- +2327 2/10, dominant w/Elton John song, SS talk, "R. Universal" ID. (Connelly, MA)
- +0500 2/28, fair, weak o/WSM, u/WNBC-660 slop, noted w/SS male vocal. (Miller, MA)
- +0247 3/31, good to dominant w/"Universal" jx, then fast SS talk. (Connelly, MA)
- +0637 4/8, loud o/others w/car ad w/screaching brakes, then "Universal" ID. (Connelly, MA)
- +0023 5/6, fair w/SS talk, disco mx. (Connelly, MA)
- 650 MEXICO, Los Mochis, Sin., XETNT, ID and Latin mx 9/22 1115 w/good signal. KFI slop nulled. (Harms, UT)
- +Good audio 1309 10/30 w/same screwball announcer in SS that I heard frequently from San Diego. (Korinek, WA)
- +1308 3/25, w/mentions of Culiacán. (Pejza, CA)
- 650 VENEZUELA, Maracay, YVLH, booming in w/"R. Visión" ID, ads for Maracay firms 0205 7/9. (Connelly, MA)

- +Rising up way o/HIAT and WSM w/non-stop SS talk w/mentions of Maracay 0003 10/29. (Connelly, MA)
  - +W/female SID, male SS trailer, quick fadeout 0215 11/14. (Baskind, MS)
  - +2320 12/22, dominant w/Maracay ads. (Connelly, MA)
- 655 EL SALVADOR, San Salvador, YSS, 9/2 0150 w/organ mx followed by bongo drums. ID 0156 "R. Nacional de El Salvador." Weak but clear. (Worst, TX)
- t +10/12 0425-0430 poor and fades, light and slow Latin mx. Heard while at work. (Poda, OH)
  - +Fair w/ID by man 1010 11/3. (Korinek, WA)
  - t +Slow Latin vocal song noted 0250 11/24 weak. I thought this station played classical mx at night, have they changed? (Tomer, CA)
  - +1005 12/11, SS talk, mx, WSM-650 TT interference, gone 1010. (Poda, OH)
  - +0447 3/11, good w/mixed SS story-telling and songs. (Connelly, MA)
  - +1005 3/26, WRTH lists 1100 s/on, not noted pre-1000. (Thomas, FL)
  - +0320 4/15, nice signal above bad static. (Krueger, TX)
- 656 t COLOMBIA, Cali, HJJM, R. Uno, 0540 4/21, possibly here, poor to fair w/SS ballad, then SS talk. (Connelly, MA)
- +As per late phone tip from Gerry Thomas this was R. Uno off frequency heard mixing w/YSS lately. (Straus, NJ)
  - +Here since at least 4/24, w/Uno IDs and RCN and Colombia mentions, hetting YSS, but on alternate fades. (Thomas, FL)
- 660 COLOMBIA, Cali, HJJM, 12/18 fair but alone 0822-0832 w/announcers of both sexes. ID 0829 "...radio, Radio Uno de Cali...", gave frequency, calls, "Emisora RCN la Radio de Colombia" and talk; then louder 0830, said "660," tape of cheering, 3 spots, then more shouting and whistling, and more talk. New w/WNBC off. (Mount, NJ)
- 660 CUBA, Santa Clara, CMHG, doesn't seem to be 24-hr any longer. Usually runs an hour or so of OC in the morning around 0830; hooks into Liberación cadena by 0920. Case in point: 9/17. Dominant mornings and mid-afternoon. (Baskind, MS)
- 660 ECUADOR, Guayaquil, ECLG2, R. Carrousel, 0826-0834 11/6 IDed twice this period. It is a fact that Nicaragua's obnoxious Preferida is missing from this frequency, although Somoza may turn its license over to somebody else at anytime. (Martin, CO)
- 660 ? GUATEMALA, loc unkn, TG??, "R. Nacional de Guatemala, la emisora del Pueblo" ID 0100 11/29. What is this? (Nittler, NE)
- 660 HAITI, Port-au-Prince, 4VI, R. Lumiere, w/religious FF talk by a man 1007 8/5. First time heard in months. (Baskind, MS)
- 660 HONDURAS, Tegucigalpa, HRN, R. Honduras outlet here //880 etc. Heard 0400 9/26 o/the Cuban w/"Aquí Honduras" program (see 944 log 9/23 same time). Appears to be full time //. Will watch for further "Cadena Nacional" affiliations. (Baskind, MS)
- + "Este es HRN, La Voz de Honduras" ID stuck through 0131 10/9. Went into R. Honduras feed //880 around 0135. Apparently this is down from 670. (Baskind, MS)
  - +1101 2/5, heard man mention "telegrama a HRN" or somesuch. 1100 heard a "R. Maticito"?? mentioned w/a big production sound like an ID would have. (Nick Hall-Patch, BC)
  - +0446 3/7, w/man in frantic SS, 2 mentions of "La Voz de Honduras" and also "HRN," dominant. (Hall-Patch, BC)
  - +To 0455 s/off 3/23, good level w/"La Voz de Honduras" and "HRN" ID but no NA at s/off. WRTH lists this on 670. (Thomas, FL)
- 660 MEXICO, Ciudad Delicias, Chih., XEACB, ID as "Radiodifusora XEACB seis sesenta kilohertz, Ciudad Delicias, Chihuahua" on the hour. Heard first 11/9 0045 and almost nightly at this time including up to 11/29. (Bill Nittler, NE)
- +1320 12/16, tuned to 660 just in time for ID by a female over lively mx, frequency, location and call letters given. Fair signal. Dug up the information on this from the '74 Mexiglen list, but I see that Bill Nittler logged them first. (Hall-Patch, BC)
- 660 MEXICO, México, D.F., XERPm, 9/2 w/Frank Sinatra songs. ID 0200 followed by SS vocals. Strong. (Worst, TX)

- +New 9/18 0642 but a pest now every night w/easy listening mx. (Harms, UT)  
 +S/off 0800 10/15 still playing US Golden Oldies nightly to that hour, "música con buen gusto" often heard, translating loosely into "mx w/good taste" I suppose. I find great variation in signal strength from this station, sometimes potent but often weak. (Martin, CO)
- +1052-1106 11/3 playing 5 consecutive cuts from Olivia Newton-John's "Greatest Hits" record. At 1106 announcer gave complete ID in middle of song, sounded like s/on announcement, then SS mx. (Korinek, WA)  
 +0504 1/10, instrumental version of "Once I Had a Secret Love." (Krueger, TX)  
 +0550 5/5, although this station now usually IDs as "Seis sesenta, la voz de la gran ciudad," noted IDing as "XERPm, la voz..etc." (Hall-Patch, BC)
- 660 NICARAGUA, Managua, YNAM, R. Mi Preferida, 0910 6/14 slandering Somoza up one side and down the other. Now using slogan "R. Mi Preferida... para el libertad!" They are going to get shut down if they aren't careful. (Baskind, MS)  
 +Is now defunct...I suppose it was inevitable. Tuned in a few weeks ago to hear a rather pathetic and disorganized appeal to "the people's friends in Costa Rica" calling for the usual revolutionary stuff. No mx, all emotional talk. Was so caught up I forgot to take notes, hence no time or exact date. Now that's radio. (Baskind, MS)
- 660 VENEZUELA, Coro, YVNA, Ondas de los Médanos, to good peaks w/WNEC nulled; pompous horn fanfare, SS talk giving call letters, then NA was played 0356 8/30. (Connolly, MA)  
 +S/on w/anthem 0959 10/23, then "YVNA" ID and mention of 660 kc. Only fair at best w/o noise. Same s/on noted 0959 10/21, but no ID caught then. (Hall-Patch, BC)
- 660 ? UNID, probably Haiti in well w/FF religious mx and hymns 1005-1030, then man w/brief FF talk and back into mx 10/22. (Portzer, WA)  
 +0717 4/30, SS w/jazz mx and "6-60" IDs by male probably just México w/a new slogan. (Portzer, WA)
- 660.5 ? UNID, 0515 2/10, Latin het. (Connolly, MA)
- 663.5 ? UNID, yes its still here -- some Latin, probably Ecuador operating on 4 C-cells, found again 10/4 0824. I'm somewhat embarrassed to mention it but I'm feeling a little lonely being the only DXer who keeps pestering about this one. Would like to have some company from somebody else that there is indeed a Latin on this exact frequency. About 145° from Denver. Please will somebody else take a compass bearing on it? (Martin, CO) (I heard something on 663.5 several months ago but don't remember which way it looped - bp)  
 +Very weak but unmistakable "Happy Birthday" in EE 11/12 on this unid. The Latin flavor is often not conspicuous on this station. (Martin, CO)  
 +Finally, after months of searching I detected a carrier here 0650 12/17 w/no audio coming through; very weak and in Mexican slop. Loop bearing almost impossible due to metal surfaces at this location. (Everitt, OK)  
 +0752-0802 12/22, Gene Martin's UNID heard again as weak carrier, in XERPm-660 and WMAQ-670 slop. Had audio briefly at 0756, possibly "La Emisora..." by deep voiced male, quickly faded into muck, carrier gone by 0802. Also 0727 12/27 w/carrier stronger than before, some SS talk noted, in and out. (Everitt, OK)  
 +Gene Martin's unid here might be ZP26 in Paraguay. '79 WRTH lists them on 660 in the Paraguay section but 665 in the frequency list. Power is listed as 10 kw. (Portzer, WA)  
 +The hypothesis by Portzer that this is perhaps a Paraguayan is given some support by 0340 3/20 logging which noted constant direction and appearance of 645 khz carrier (an ID'ed Paraguayan) at same time. This UNID previously logged on 663.5 and always past WRTH listed 0200 s/off so....? (Thomas, FL)
- 665 ? UNID, my long-standing Latin mystery on 663.5 has now acquired a flea-powered companion 1.5 khz higher looping 120-125°, whereas 663.5 loops about 145°. First found 10/13 0530-0600 when it was by itself, leaving me wondering if my 663.5 Latin was drifting. But 10/23 0517-0540 found both of them there, a het between them and separated by 1.5 khz. This new thing seems a bit stronger than 663.5 and it should be IDed soon. Audio up, male vocalist 0557, but not heard after 0600. Audio portions taped are marred by WMAQ-670 slop. Looping such weak signals are quite difficult but am pretty sure this new station loops east and north of

- the probable Ecuadorian on 663.5. Reunion is there but seems doubtful. (Gene Martin, CO)
- +The 3rd appearance of my new mystery Latin came 11/21 0251-0302. Kept watching the frequency for next 2 hours but it never came back. Taped 6 or 7 minutes of faint audio before 0300 but there's nothing on the tape which can be described as to content. But there is no doubt there is occasionally something here coming from 115-130° eastward of Colombia. Couple of times there was a het between this one and my other famous unid at 663.5. (Martin, CO)
  - +0625-42 12/25, positively a Latin here. Carrier from the south east with audio far down in the mush, later than ever heard before, many Latins on late Christmas morning. (Martin, CO)
  - +Fair carrier w/bits of audio (a first here) but nothing readable. Either a permanent fade or s/off 0500 2/25. (Thomas, FL)
- 670 CUBA, San Pedro de Cacocum, CMKP, R. Progreso, noted suffering from bad hum in carrier, distorted audio 0156 7/13. Left air for repairs once or twice during the course of the evening. (Baskind, MS)
  - +Good w/big-band jazz //690 0532 7/29. (Connelly, MA)
  - +Dominant w/"R. Progreso" ID, then jazz, 0328 8/28. (Connelly, MA)
  - t +10/9 instrumental mx 0514, then talk in SS by man, then female and more instrumental mx //690. Presumed WMAQ talk way u/SS, which was 'good' at best. (Paul Mount, OH)
  - +Fair to monster level //880 0635 10/16. Female announcer in SS, then syrupy clarinet mx. (Hall-Patch, BC)
  - t +10/29 0005, suppose this one w/nx in SS, slop from CFTR-680. (Beauregard, QU)
  - +0520 2/10, alone on channel w/Latin horn instrumentals //690. (Connelly, MA)

670 GUATEMALA, Guatemala, TGRT, R. Fabulosa, good 0145-0158 10/16 w/fútbol game and commentary. ID 0155, after which it sank into the mess. WMAQ nulled. (Worst, TX)
  - +11/20, "R. Fabulosa" ID 0400. (Krueger, TX)
  - +Numerous mentions of Guatemala 11/29 0145 in long talk o/WMAQ. (Bill Nittler, NE)
  - +0056 1/3, very good w/WMAQ gone in Auroral cx, SS talk, including "La emisora .... en Guatemala," 0143 retune excellent, w/SS c&w mx, promo. (Everitt, OK)
  - +0300 5/10, w/"R. Fabulosa" ID (marked by Unity-word-for-the-day-like chimes). (Thomas, FL)

670 VENEZUELA, Caracas, YVLL, R. Rumbos, atop channel w/"Notirumbos" nx program. 3-note chime sounded between each item 0340 6/25. (Connelly, MA)
  - +Noted w/festive mx o/under Cuba and WMAQ 0539 11/4. (Connelly, MA)
  - +Good o/other Latins, female SS vocal, chimes, then "Notirumbos" nx headlines 0540 11/24. (Connelly, MA)
  - +0123 3/11, fair o/Cuban, "Rumbos" mentioned, slopped by WRKO-680 and WNBC-660. (Guess who?, MA)
  - +2359 4/7, loud w/"Rumbos" ID. (Who else?, MA)

675 COSTA RICA, San José, TICN, R. Sonora, in like a ton of lead 0645 7/8 w/usual format. (Baskind, MS)
  - +Fair w/romantic SS mx, then reverberated "Sonora" ID; WRKO-680 nulled 0353 8/30. (Connelly, MA)
  - +0517 10/7 Latin mx into announcement by man; 0518 "...de R. Sonora" ID heard during talk, then wiped out by slop. KNBR-680 was running basketball which definitely helped. (Bytheway, WA)
  - +10/14 "TICN" ID 0102 fair w/hets, many "R. Sonora" IDs, "...musical de Costa Rica" 0105. (Grossman, BC)
  - +0917 10/15, always here, must operate all night. ID is often the single word "Sonora," over the mx. (Martin, CO)
  - + "R. Sonora" ID noted in KNBR-680 splash 0705 10/16. Just a carrier to fair audio at times. On past regular s/off time? (Hall-Patch, BC)
  - +In well w/KNBR-680 and KBOI-670 slop nulled 0815-0832 10/22 w/Latin mx and a couple of passable "Sonora" IDs. (Portzer, WA)
  - +Excellent overall w/slow 1950's type ballad; "¡Sonora!" bellowed 0941 11/6, R. Sonora promos ad nauseum. This has got to be the most egocentric station in Latin America. (Everitt, OK)
  - +Excellent w/Latin mx 0240 11/7. This is normally one of the better Latin signals, but rarely w/such outstanding level. (Everitt, OK)
  - + "Sonora" loud ID 0515 11/8, then several more "Sonora" mentions. (Bill Nittler, NE)

- +Good w/Latin mx w/lots of organ, "Sonora" interjected 0254 12/14, slight 100 hz het noted on approximately same loop bearing at old location. Even better 0618 w/very good to excellent signal w/monotonous Latin mx and lots of voice-over announcements, this time het gone. Again 0645 12/17, excellent w/SS talk, "Sonora" ID sung by a female, into Latin mx. First time I've heard an SID here. (Everitt, OK)
  - +0745 12/22, excellent w/SS MoR popular vocal, 0747 "Sonora," followed by short SS version of Rudolph the Red Nosed Reindeer, followed by Latin mx, 0902 12/27 excellent w/multiple "R. Sonora" and "Sonora." (Everitt, OK)
  - +0551 1/8, very good w/SS MoR and Latin mx, w/Sonora mentioned during and after songs. (Everitt, OK)
  - +0718 2/9, poor w/man talking, mx, through 670 and 680 khz slop. (Bruce Portzer, WA)
  - +0521 2/10, fair in WRKO-680 slop, ID as "R. Sonora la ... musical de Costa Rica," SS ballad. (Connelly, MA)
  - +Someone here nightly w/Sonora and differing by 2 - 400 hz. Direction similar to Nicaragua but no ID yet. (Thomas, FL)
  - +0632 4/8, very good w/"R. Sonora" ID, accordian mx and then group vocal. (Mark Connelly, MA)
- 680 CUBA, Cienfuegos, CMHN, SS rock and roll song on R. Progreso //CMHG, CMKP, and CMBC fair w/WCBM 0221 11/16. (Townshend, DC)
- 680 HONDURAS, Siguatepeque, HRN, La Voz de Honduras, loads of "HRN" and "HRN, la gran cadena" IDs 11/7 0437. Good o/Cuba and Colombia. (Hutton, GA)
- + "La Voz de Honduras" ID 0500 11/8 on top of frequency. (Nittler, NE)
- 680 MEXICO, Chihuahua, Chih., XEFO, this was the one w/sign-on 1101 sounding like "...R. Sensación." Battling XELG for the next hour w/ranchera and mariachi mx, many ads, and slogans. This on 12/15. (Portzer, WA)
- +1057 2/4, apparent s/on and into SS vocal, several "R. Sensación" at 1101. Many IDs through next half hour, was atop XELG at first, faded. (Philip Bytheway, WA)
  - +1101 2/4, not much of this in the clear, but noticed XELG signal get murky and male w/"Sensación" ID also at 1136. (Hall-Patch, BC)
- 680 MEXICO, León, Gto., XELG, dominant 12/15 0804-1100, then fighting XEFO until 1200 when KNBR OC came on. Latin popular mx and lots of "L-G" and "La Grande" IDs. Wish KNBR would go off more often. (Portzer, WA)
- +0958 12/15, "...La Grande, 680 kcs, w/10,000 w. of power.." noted in SS, weak but dominant w/KNBR off. Slow SS ballads and trumpet IS like XEHL's, another Latin here but no ID. (Hall-Patch, BC)
  - +1045 12/16, w/KNBR off, SS talk, mx, and ID, good. (Harms, UT)
  - +1012 2/4, noted w/SS rock mx, through KNBR OC, KBOI-670 splash, poor to fair w/"L-G, La Grande" slogans. (Hall-Patch, BC)
  - +0800-1000 5/20, fair during breaks in KNBR OC/TT, w/many "LG La Grande" IDs. (Bruce Portzer, WA)
- 680 PUERTO RICO, San Juan, WAPA, SID "W-A-P-A, San Juan" 0030 11/2 while mixing w/other unid Latin Americans. (L. Morby, NY)
- +Good w/MacArthur Park by Donna Summer, then man in SS w/"WAPA!" (call spoken as a word) ID - WRKO nulled w/phasing unit 0521 11/24. (Mark Connelly, MA)
  - +0945 2/3, several mentions of "en San Juan" poor w/XELG semi-dominant. (Philip Bytheway, WA)
  - +0947 2/3, poor w/ID, sounded like s/on. Over and under CFTR, XELG, w/KNBR off. (Portzer, WA)
  - +0415 2/7, excellent, dominating frequency w/lots of WAPA's (that's w-pah's), Puerto Rico type mx, ads, usually only noted here on MM's. (Elliot Straus, NJ)
  - +0625-29 4/8, loud and dominant w/WRKO off; SS male popular vocal, then disco record in EE. "WAPA-680" ID. (Connelly, MA)
- 686 ? UNID, OC here from the south east 0244-0310 10/15, weaker than 675 khz Latins but gone by 0435 recheck. (Martin, CO)
- 690 COLOMBIA, Bogotá, HJ CZ, La Voz de Colombia, very poor u/the Cuban. ID during pause in CMBC audio 11/7 0430. (Hutton, GA)
- +Was sitting here during XETRA's silent period 0947 12/16 wondering who the 2 to 3 stations u/KKUA were when a man in SS said "en Colombia... La Voz de Colombia." A frantic search through the WRTH revealed that there was indeed such a station. Note that this was before their listed 1000 s/on. (Bruce Portzer, WA)

- +Good 0756-0800 12/18 w/vocals and TC, then "Aquí Colombia...La Voz de Colombia" ID, mentioning frequency, "la emisora de mayor --- música nacional." Interference from the Cuban which had IDed a minute earlier. (Paul Mount, NJ)
  - +0604 1/1, briefly atop the Cuban in WTIx null w/"La Voz de Colombia" ID. (Gerry Thomas, FL)
  - +0657 4/8, good w/TC, ID as "La Voz de Colombia," then emotional SS male vocal. (Connelly, MA)
- 690 CUBA, La Habana, CMBC, good w/jazz //670 0532 7/29. (Connelly, MA)
- +0200 9/7 popular mx, female announcer frequently mentioned Cuba, but voice blurred (overmodulation?). Strong, all over WTIx. (Landry, LA)
  - +10/11 "novela" to 0045, then ID and some kind of announcement to 0050, then songs in SS. Mostly way o/WTIx. (Worst, TX)
  - +0520 2/10, o/CBF w/jazz, //670. (Connelly, MA)
  - +0530 3/11, good w/hard rock and roll. (Connelly, MA)
  - (See also 693 - ed)
- 690 MEXICO, México, D.F., XEN, "R. Mundo, EH-kees eh EH-ney." News in SS, 1940s-style U.S. popular mx. Signal fair to poor, suffered from interference barrage 9/26 2258. (Landry, LA)
- +1227 12/16, "R. Mundo," ID noted amid SS talk in CPGR null. XETRA off again, how nice. (Hall-Patch, BC)
  - +0310 2/28, w/frequent IDs, US and Latin big band mx. (Thomas, FL)
- 690 MEXICO, Tijuana, B.C., XETRA, 12/18 0900 off air; they've been off lots of mornings lately per Randy Seaver. Maybe they've dropped their NSP. I hope so. (Lobel, CA)
- 693 CUBA, La Habana, CMBC, the same night CMAF returned to 880, this Radio Progreso outlet drifted to 693a. This at 0645 10/3, but back to 690 the next day. (Thomas, FL) (See also 690 - ed)
- 698 DOMINICAN REPUBLIC, Valverde, HIRC, R. Mao, good, killing 700 khz Latin meas; female SS vocal noted 0207 7/9. (Connelly, MA)
- +Noted w/SS rock 2343 8/26. (Connelly, MA)
  - +Assumed the one putting a loud 2 khz het on Jamaica 0018 10/1. Possibility of ever getting readable audio here is slim thanks to rocker WTIx's godawful splatter. (Baskind, MS)
  - (See also following tips - ed)
- 698.9 DOMINICAN REPUBLIC, Valverde, HIRC, R. Mao, 0020 1/1, station reported here as a Dominican measurably interfering with 700 khz, fair level, didn't stick w/it. (Foxworth, NY)
- 699 DOMINICAN REPUBLIC, Valverde, HIRC, R. Mao, fair w/man in SS 0036 7/30. (Mark Connelly, MA)
- +Poor to fair w/Latin mx 2257 12/16. (Connelly, MA)
  - +2224 1/13, "R. Mao" poor w/Latin mx. (Connelly, MA)
  - +2234 2/10, poor w/female in SS. (Give you one guess, MA)
- 700 COLOMBIA, Cali, HJXC, R. Sutatenza, SS talk by man, mention of Barranquilla 0102 7/14. Fair w/WLW 30 minutes after sundown. (Townshend, DC)
- +Talk about Colombia by man and woman in SS, o/other Latins 0417 8/30. (Connelly, MA)
  - +Loud at s/off w/ID mentioning Colombia, then march mx 0417, into OC which went off 0419 11/24. When the carrier was dropped, a cacophonous Latin jumble surfaced; no sign of WLW. (Connelly, MA)
  - +0343 1/10, "R. Sutatenza" ID noted. (Krueger, TX)
- 700 COSTA RICA, San José, TIHB, R. Reloj, very good w/Latin mx and mentions of Costa Rica, by itself through WLW null until 0711 11/8, then accompanied by 5 hz SAH and Latin mx. (Everitt, OK)
- +Good 0355 11/24 w/ballgame in SS, no ID 0400 but was // to the easily heard 4832 khz short-wave outlet. (Tomer, CA)
  - +Very good w/Latin mx and male SS announcer w/"Reloj" mention in null of JBC 0623 12/14 at old location. WLW apparently either off or unusually well-suppressed by aurora. (Everitt, OK)
  - +0815 1/7, w/SS MoR vocals, faded. (Tomer, CA)
  - +0529 2/10, fair to good o/others w/ID as "R. Reloj de Costa Rica," then time check. (Connelly, MA)
  - +0350 2/13, clear and steady in WLW null w/man talking (ID as above), on TRF and shotgun antenna. (Hall-Patch, BC)
  - +0518 5/6, in o/under WLW; SS talk, "Reloj" ID. (Connelly, MA)

- 700 CUBA, Ciego de Avila, CMJT, R. Progreso, finally heard o/WTIX-690 splash. WLW, Jamaica, and Costa Rica. interference 0312 7/13. (Baskind, MS)
- 700 ? GUATEMALA, Guatemala, TGHR, R. Mundial, 0138 1/3, possibly w/extended SS talk and marimba mx followed by possible "Mundial" mention, although latter is not clear on tape. Guatemala seems likely. (Everitt, OK)
- 700 JAMAICA, Montego Bay, JBC, 10/11 0100 out of the mess long enough for a program on a Jamaican hero. 0105 ID "JBC." WLW nulled. (Worst, TX)  
 + "Jamaica" mentioned in EE promo by male and female announcers, Caribbean mx. Another male announcer sounded like the Uncola Nut salesman. Female announcer gave call. Signal horrible w/noise, 1 second dips and fades, interference from unid SS in WLW null 10/21 0731. (Landry, LA)  
 + Carries the "Back to the Bible" show Tuesday mornings at 0900 as per announcement heard 2325 11/25. (Baskind, MS)  
 + Very good to excellent in TIHB null (w/approximate 2 hz SAH) 12/14 0615 w/"It's Beginning to Look a Lot Like Christmas," 0627 "Joy to the World," 0629 sung promo for something unreadable, female EE talk, 0630 "JBC, R. One" SID, into cw guitar. Not heard all that often here. Was also some Latin mx u/JBC, besides TIHB. Colombia probably. (Everitt, OK)  
 + 0700 12/11, man talking in EE, rock mx, unid Latin hetting against it. (Louis Poda, OH)  
 + 2339 1/10, heard newscast called "24 Hours," best after 2352 w/Bank of Jamaica ad, also good 0203 1/12. (Krueger, TX)  
 + 0624 2/25, poor to fair w/reggae mx, //750; in WRKO-680 slop, WLW nulled and 702 khz het tuned out of passband. (Connelly, MA)  
 + 0500 3/31, rough copy in jumble. (Krueger, TX)
- 700 VENEZUELA, Maracaibo, YVMH, R. Popular, in good w/TC and ad for "Only Pants" in Maracaibo. ID in SS 0340 11/1. (L. Morby, NY)  
 + 2331 2/10, loud and totally dominant w/clear "R. Popular" ID. (Mark Connelly, MA)  
 + 2344 4/5, dominant w/SS talk, "R. Popular" ID. (Connelly, MA)
- 700 ? UNID, 10/9 0528 current popular song "boogie" in EE in WLW null. Fast SAH. Faded quickly. Looped south east. (Poda, OH)  
 + Who in heck would this be? Sound of "Stars and Stripes Forever" in WLW null 0803 11/13. WLW in NBC nx at the time. (Martin, CO)  
 + SS station here w/talk 12/14 0210 o/under WLW. (Harms, UT)  
 + 0550 1/1, a "R. Festival" ID (marked by bells), weak u/WLW. Nothing else. (Gerry Thomas, FL) (Maybe YNSC - es)
- 705 HONDURAS, HRAM, La Voz de Olancho, 0155 3/17, poor w/male upbeat vocals, 2 male announcers. (Thomas, FL)
- 705 ST. VINCENT, Kingstown, poor w/Caribbean dance mx, dogged by storm static 0032 6/4. (Connelly, MA)  
 t + Suspected w/reverberated talk and soul mx 0129 6/25. (Connelly, MA)  
 + Weak w/male vocal, interference from WOR-710 0035 7/30. (Connelly, MA)  
 t + Mostly carrier w/weak bits of modulation at times 0202 8/11, heavy interference from adjacent frequencies. Apparently on late for hurricane which was only a few miles from the island at the time. (Baskind, MS)  
 + Fair w/woman in muffled EE, then soft instrumental mx 0106 8/29. (Mark Connelly, MA)  
 + Fair in WOR-710 slop; Caribbean EE fast-talk ads 2210 11/4. (Mark Connelly, MA)  
 + Good w/EE talk, possibly BBC material, good modulation level 0438 11/6. (Doug Everitt, OK)  
 + Good w/BBC commentary and EE talk by man, then BBC World Service ID and theme mx (preceding nx), into nx 2300 12/16. (Connelly, MA)  
 + 2225 1/13, fair w/Floyd Cramer style piano mx. (Connelly, MA)  
 + 2354 1/19, good signal w/ads, mentions of St. Vincent, talk about expansion of a university on St. Vincent. (Krueger, TX)  
 + 2236 2/10, poor to fair w/EE nx. OC noted 0530 2/10. (Connelly, MA)  
 + 0025 3/11, poor to fair w/Caribbean EE talk. (Connelly, MA)  
 + 2345 4/7, fair w/reggae mx, then Caribbean EE talk. (Connelly, MA)
- 705 ? UNID, OC was here from 115-120° 11/13 0747-0820. Faded out over the hour. (Martin, CO) (St. Vincent? - bp)
- 710 MEXICO, Ciudad Cuauhtemoc, Chih., XEDP, a dominant here some evenings. Noted o/KIRO and KMPC w/apparent s/off ID "La Grande XEDP" and location, also heard "khz" 0734 9/23. (Harms, UT)

- +0/under KMPC 0510-0530 11/26 w/MoR SS vocals, lots of ads between songs and several mentions of XEDP. Full legal ID at 0600 recheck. (Tomer, CA)
- 710 ? MEXICO, 10/3 1300 w/opera mx, clear IDs as XEBF and XEB (neither was supposed to be here). Suspect XEVB. (Pejza, CA)
- 710 PANAMA, Bocas del Toro, HOB2, Ondas del Caribe, 0112 11/11 w/slogan IDs and a "R. 70-1." Poor to fair w/variable interference from local WKRG. (Chris Baskind, MS)
- 710 VENEZUELA, Caracas, YVKY, o/under WOR w/"R. Capital" SID 0424 8/29. (Mark Connelly, MA)  
 +Bombing in way o/WOR; SS talk, "R. Capital" jingle, female cw vocal 0539 11/24. (Connelly, MA)  
 +Good w/WOR nulled, reverberated SS talk, "R. Capital" ID 2347 10/28. (Mark Connelly, MA)  
 +Fair w/Venezuelan bank ad, WOR (in only on groundwave) nulled 0537 11/4. (Mark Connelly, MA)  
 +2321 12/22, good w/SS talk about Venezuela o/under WOR groundwave. (Mark Connelly, MA)  
 +0532 2/10, loud, bombing WOR, w/Santana, jazz-rock instrumental, man in SS mentioned "R. Capital," disco-rock, faint 711 khz TA het in background. (Our man in MA)
- 714a ? UNID, Latin here (713.8 - 715 khz) nightly since at least 5/15, carrier often strong but audio fair at best. Ecuador possible but not heard here this season. Generally fades by 0400 but on peaks, hets someone on 715. Can't seem to get lucky w/this one, but ID is definitely possible. (Gerry Thomas, FL)
- 715 ECUADOR, Portoviejo, HCGB4, noted 0500-0545 9/13 nil to fair and using "R. hair-mahn" (herman-friendship?) slogan. Same format as HCGB4 but no La Voz de Portoviejo IDs heard. (Thomas, FL)
- 715.4 ? UNID, 10/20 0600 carrier looping to Latin America but audio impossible in KIRO-710 splatter. First time anything noted here. Many Latin splits this evening. Also noted 10/21 0520. (Hall-Patch, BC)  
 +Possibly Ecuador, La Voz de Portoviejo. (Hutton, GA)
- 720 COLOMBIA, Barranquilla, HJAN, Emisoras Unidas, 0139 9/24 Latin mx fair o/under CMGN w/WGN wiped out. (Townshend, DC)  
 +Presumed the one w/Barranquilla ads around 0020 11/14. Fighting it out w/the Cuban. (Stanbury, ON)
- 720 CUBA, Colón, CMGN, atop other Latins, man and woman announcers in SS 0050 7/30. (Connelly, MA)  
 +Atop, totally dominant, w/SS talk about Cuba, then mx 0002 9/29. Cx were of a short-skip auroral variety. Cubans loud, Venezuelans and Colombians weak. (Connelly, MA)  
 +2357 1/24, noted w/male SS vocal, "Rebelde" ID, o/under other Latin, probably HJAN who had SS nx. Doorbell chimes. Also 0020 1/28, w/male and female w/SS talk about political organizations in various Cuban towns, no trace of WGN. (Connelly, MA)  
 +0535 2/10, dominant w/SS talk by man and woman about political conditions in Central American countries. (Connelly, MA)  
 +0457 3/11, loud w/talk about Angela Davis. (Connelly, MA)  
 +0030 4/5, good w/Tchaikovsky mx, "La Voz de Cuba" slogan, man and woman in SS. (Connelly, MA)  
 +2347 4/7, atop w/SS - Russian language lessons w/man and woman; other station underneath w/steel band mx. (Thomas, FL)
- 720 GUATEMALA, Morales, TGRO, R. Corona, poorish w/CMGN w/latter end of TC, ID and marimba mx 0627 8/1. (Baskind, MS)
- 720 VENEZUELA, Porlamar, YVOE, loud w/"R. Visión" ID, Latin jazz instrumental and vocals 0323 6/4. (Connelly, MA)  
 +Good w/"R. Visión" ID, then fast Latin mx hetted by Portugal-719 2350 8/26. Loud and dominant 0122 8/29. (Connelly, MA)  
 +Loud and dominant w/"R. Visión" ID 0050 10/23. (Connelly, MA)  
 +w/Venezuelan NA followed by SS talk/sporting event o/under CMGN w/man and woman in SS 2302 12/16. (Connelly, MA)  
 +2325 12/22, loud o/other Latins; disco mx, TC as 7:25 (AST), "R. Visión" jingle. (Connelly, MA)

- +0030 1/27, mentions of Venezuela, jingle ID at 0030 sounded like a "R. Visión" (Vees-i-ón), by a female. (Curtis, VT)
- +2239 2/10, mighty signal alone on channel, w/het from Portugal-719 only interference, Porlamar ad, phone numbers, "R. Visión" ID. (Connelly, MA)
- 724.8 COSTA RICA, San José, TILX, 10/8 0452 lively Latin mx, "Columbia" intone o/song 0506, several mentions of "Columbia" between songs 0518. (Phillip Bytheway, WA) (See also 725 - ed)
- 725 COSTA RICA, San José, TILX, fair w/man in SS 0418 8/30. (Connelly, MA)
  - + "R. Columbia" ID 0450 w/some sort of sports broadcast and excited announcer. (Bill Nittler, NE)
  - + Fair w/festive mx, then man in SS 0509 11/4. (Connelly, MA)
  - + Loud w/SS talk, "Columbia" mentioned 0444 11/16. (Connelly, MA)
  - + "[Columbia!" yelled out o/odd-sounding multiple vocal SS song 0610 11/17. (Nick Hall-Patch, BC)
  - + Loud w/man in SS 0402 11/24. (Connelly, MA)
  - + Good w/SS talk by high voiced female 0637 12/14, in null of SRS at old location. (Everitt, OK)
  - + 0605 12/19, good w/SS talk, "R. Columbia" promos. (Everitt, OK)
  - + 0045 12/29, mx, and several "Columbia" Ids. (Krueger, TX)
  - + 0135 1/3, excellent w/well modulated Latin mx. Seems closer to 725 than in past, fairly close SARs between them and SRS are more common now. (Doug Everitt, OK)
  - + 1133 1/8, good TILX ID and "Columbia" mention. (Tomer, CA)
  - + 0536 2/10, fair w/fast SS talk. (Connelly, MA)
  - + 0244 3/31, excellent w/man in SS. (Connelly, MA)
- 725 SURINAM, Paramaribo, SRS, up w/outrageous local-like signal; popular rock in EE, then full ID in Dutch 0031 6/4. (Connelly, MA)
  - + At local strength w/calypso EE vocal 0033 7/30. (Connelly, MA)
  - + Smashing in w/Latin style brass instrumental, then reggae vocals 0053 9/17. (Mark Connelly, MA)
  - + Excellent, like a local w/old US hit "Hello Stranger" 2215 11/4. (Mark Connelly, MA)
  - + Fair in WGN-720 splatter w/what seemed to be multilingual program in Dutch, SS, and possibly 3rd language 0431 11/6. Also some 724.8 het. (Doug Everitt, OK)
  - + Good w/talk in unid language w/occasional interjected bars of East Indian sounding mx 0635 12/14, in null of TILX at old location. Approximate 20 hz SAH between the two, SRS apparently the lower frequency of them. (Doug Everitt, OK)
  - + Good to excellent w/US soul hit, then woman in Dutch 2253 12/16. (Mark Connelly, MA)
  - + 2320 1/10, fair w/chants, then man in Asiatic language (list Indonesian 2300-2400 - es). Also 2226 1/13, w/Gladys Knight vocal. (Connelly, MA)
  - + 2344 1/27, fair w/talk in exotic (non-European) language. (Connelly, MA)
  - + 2359 2/5, good w/female vocal. (Connelly, MA)
  - + 0022 3/11, SRS fair w/calypso mx. (Connelly, MA)
- 725 ? UNID, maybe Costa Rica, heard SS talk 0420 11/13, then faded. (Tomer, CA)
  - + 0415 4/5, someone here hetting the Costa Rican w/Surinam off and looping to Ecuador. Excellent opening to Ecuador this time so HCMA2 possible but weak audio masked by interference and noise. (Thomas, FL)
- 730 COLOMBIA, Bogotá, HJCU, atop several others w/"Melodia" ID, then xylophone mx 0110 6/4. (Connelly, MA)
  - + Atop low rumble; "R. Melodia" ID, then SS vocal 0535 11/4. (Connelly, MA)
  - + 0116 4/8, good w/"R. Melodia, la música sensacional," festive Latin mx followed. (Connelly, MA)
- 730 CUBA, Holguín, CMKJ, R. Liberación, SS talk by a man. Fair o/XEX 0221 11/24. (Bill Townshend, DC)
- 730 DOMINICAN REPUBLIC, Santo Domingo, HIZ, 0126 6/1 w/male announcer answering letters, many Dominican Republic mentions, partial "R. Dominican.." ID 0128. Sounds automated w/its beautiful mx format. (Baskind, MS)
  - + Easy listening format, including US popular mx. Then female announcer, mentioned "Dominicana," 2 minute talk by a man, another announcement by a female. Good to fair w/fading, XEX off 10/7 0505. (Landry, LA)
  - + 0000 1/25, atop channel w/SS talk, HIZ jingle. (Connelly, MA)
- 730 GUATEMALA, Guatemala, TGN, R. Cultural, 0417 11/9 w/EE religion. XEX in null; fair. (Baskind, MS)

- 730 MEXICO, México, D.F., XEX, 10/9 good and alone w/SS vocal 0518, jingle mentioned México, spot and promo, into SS "It's Impossible," then "XEX México" jingle 0524 and spot. (Mount, OR)  
 +Good w/ID jingle, Mexican mention, SS talk fair in CKAC null 0531 12/10. (Mark Connelly, MA)  
 +0032 12/15 SS nx, lots of wierd electronic sounds and mx after almost every nx story. Heard plenty of mention of "México." Nx story from Chihuahua heard. (Lee, CT)  
 +12/18 1027 clear "equis-eh-equis" SID between SS popular songs. The next few songs were played back-to-back. Average signal; no sign of CKLG which was probably off. (B. Hardy, WA)  
 +Booming in w/CKLG off 1105 12/18 w/SS MoR mx, jingle ID, then several ads, including one mentioning "Farrah Fawcett." (Portzer, WA)  
 +0445 2/11, good w/CKAC nulled, beer ad "La cerveza es Corona." (Connelly)  
 +1143 4/2, assumed the SS in CKLG null. (Portzer, WA)  
 +0421 5/5, audible in CKAC null w/Corona beer ad; SS talk barely o/a swarm of other Latins. (Connelly, MA)
- 730 TRINIDAD AND TOBAGO, Port-of-Spain, R. Trinidad, in 0940 8/5 w/highly accented man and morning invocation; XEX nulled. Almost mistook it for TGN, the signal being so strong. (Baskind, MS)  
 +Rising above a cacophonous mess w/Arabic style mx, then EE announcement that it was a "program from the Islamic Cultural Institute of Trinidad and Tobago," then ID in accented EE 0102 8/29. (Connelly, MA)  
 +2350 4/7, fair o/rumble w/Caribbean EE sports talk about cricket and football, Bermuda baking powder ad, lottery numbers read. (Connelly, MA)
- 730 ? UNID, 0945 1/22, man w/EE religious program fair u/CKAC. Could be Trinidad after 0930 s/on? (Straus, NJ)
- 735 ECUADOR, Quito, HCGC1, R. Melodía, good w/festive Latin mx 0529 11/24. (Mark Connelly, MA)  
 t +0235 12/25, suspected w/ weak carrier in XEX-730 and KRMG-740 slop with snatches of SS vocal mx. (Everitt, OK)  
 t +0556 1/8, most likely the station w/well modulated mx, drums. (Everitt, OK)  
 +0234 1/12, unusually strong w/"Radiodifusora Nacional del Ecuador" slogan, march mx, reverberated SS talk. (Connelly, MA)  
 +0345 1/17, best level in recent weeks. (Thomas, FL)  
 +0425 3/1, good w/wedding march lead-in to 0425 "Melodia" ID. (Measured as 734.8 khz.) (Thomas, FL)
- 735 ? UNID, 10/21 0522, carrier fading slowly down to nothing then up again. Probably Latin but only audible in CKLG-730 null so can't tell the direction. (Nick Hall-Patch, BC)
- 740 COLOMBIA, Valledupar, EJNS, 0540 2/10, briefly through CBL w/"Radio Guatapuri" ID. (Connelly, MA)
- 740 CUBA, Camagüey, CMJL, dominant o/CBL; IS, then "R. Habana Cuba" ID and slogan "primer territorio libre de América" 0353 7/9. (Connelly, MA) (Which loosely translates as "freest land in America" - bp)  
 +SS talk by man 0356 9/21 fair u/CBL. (Townshend, DC)  
 +o/other Latins, Cuban chimes and ID 2308 12/16. (Connelly, MA)
- 740 MONTSERRAT, Plymouth, R. Antilles, fair o/under WHEB-750 slop w/Caribbean festive mx/steel drums, then man in French, 0023-0027 8/29. Program similar to old "Jumbo-545." (Connelly, MA)  
 +2353 4/7, fair w/French talk, steel drum mx, female vocal. (Connelly, MA)
- 740 t PANAMA, David, HON26, 0415 5/5, apparent "Panamá" and "Cristal" mentioned well behind CBL. (Connelly, MA)
- 740 VENEZUELA, Maracaibo, YVNC, good w/female SS vocal mx, then "R. Maracaibo" ID and repeated use of 2-note doorbell chime 0201 10/2. (Mark Connelly, MA)  
 +0235 1/12, o/mess w/"R. Maracaibo" ID. (Connelly, MA)
- 750 COLOMBIA, Medellín, HJDK, La Voz de Antioquia, in 0652 7/8 battling interference w/Caracol mentioned and Latin mx. (Baskind, MS)
- 750 HAITI, Artibonite, 4VIA, R. Lumiere, w/French mx and religious talk through Nicaragua and WSB mess 0210 8/10. IDed per //660. (Baskind, MS.)

- 750 JAMAICA, Port Maria, JBC, first noted 0958 9/5 topping channel. (Charles Taylor, Bermuda)
- +Atop the usual pests (KFQD, JOIB, WSB) w/instrumental version of "Raindrops Keep Falling," ID by female "You are tuned to JBC Radio One," then into drama of sorts w/British women 1035 10/22. (Portzer, WA)
  - +O/WSB w/spacey reverberated reggae mx, Caribbean EE talk/screaming 0508 12/17. (Connelly, MA)
  - +0624 2/25, w/reggae mx //700, u/YVKS and WSB, rough low het present. (Mark Connelly, MA)
  - +0458 3/11, good w/soul mx and reggae, black EE talk o/Venezuelan. WSB nulled. (Connelly, MA)
- 750 NICARAGUA, Managua, YNX, Estación Equis, the easiest non-Mexican Latin American station here. Noted in passing o/WSB 8/5 0631. (Harms, WA)
- +1240 11/20 w/strong signal was suddenly buried by an influx of a strong JOIB signal for 2 minutes and then just as suddenly YNX was back on top as if nothing had happened. What was even stranger about this is that very few TPs were making it at all that morning. (Peterson, CA)
  - +0515 1/17, assumed the Latin here w/MoR mx, o/under WSB. No ID heard but format and signal strength were typical of YNX. Dave Korinek indicates that they had been off the air for a week or two after fire-bombing of studio. (Portzer, WA)
  - +0506 1/31, fair w/EE vocal, "X" SID, then SS vocal. (Tower, CA)
  - +Was reported to have been blown up by Sandinista guerrillas on 1/3, but station has been heard since. Stand-by transmitter? (Arctic, 3/9)
  - +0445-0510 4/20, seemed to be all mx and commentary w/bits of mx between man and woman talking in strident SS. Seemed very concerned w/"comunistas." Finally "desde Managua, Nicaragua, estación X" at 0510. Change of programming? (Hall-Patch, BC)
  - +0413 5/5, still on the air; dominant and very loud w/ID as "Estación X desde Managua" by a female, talking by a man, then soft SS rock. (Mark Connelly, MA)
- 750 VENEZUELA, Caracas, YVKS, atop w/Simon and Garfunkle hit, ads, "R. Caracas" jingle, then Roberta Flack song 0112 6/4. Intriguing second station w/raspy audio on SS talk which mentioned Argentina and then promptly faded. Maybe LRA?? It bears further listening from the Cape Cod listening post during the LSS period. (Connelly, MA)
- +Latin mx 0156 7/13 poor to fair u/WSB. (Townshend, DC)
  - +Good w/SS announcer and US soul mx 0342 8/30. (Connelly, MA)
  - t +Likely the one w/American rock mx and SS announcer looping pretty far east 0736 10/22. No ID heard but format fits. (Portzer, WA)
  - +Good w/ID in SS "750, R. Caracas." This at 0254 11/2. (L. Morby, NY)
  - +Like a local w/SS announcer, then Johnny Halliday record 0508 11/4. (Connelly, MA)
  - +Loud and alone on channel w/nx item about Pope John Paul II, then "R. Caracas" ID followed by disco mx 2332 11/24. (Connelly, MA)
  - +Loud w/Caracas ads (banks, restaurants, etc.), ID, totally dominant 2309 12/16. (Mark Connelly, MA)
  - +2339 12/31, excellent, alone on channel w/Caracas ads. Cx were semi-auroral w/some weakening of domestic skip. (Connelly, MA)
  - +0023 1/28, good w/WSB nulled, "September" by Earth, Wind and Fire, SS talk then disco mx. (Connelly, MA)
  - +0544 2/10, excellent, alone on channel w/Bee Gees song, "Caracas" ID. (Mark Connelly, MA)
  - +0621 4/8, well o/other Latins; "R. Caracas" mentioned, SS talk. (Mark Connelly, MA)
- 752 at COSTA RICA, San José, TIRA, R. Amiga, I assume it is indeed TIRA producing the 2 khz het heard here; strongest ever 0350 11/25. Jamaica-750 and WSB-750 are much too strong to allow audio through, however. (Chris Baskind, MS) (See also 753.5, 754, 754.8 and 755.2 - ed)
- 752 a? UNID, weak SS here 7/18 0440 putting about 2 khz het on WSB-750. Long fades. (Thomas, FL) (TIRA? - bp)
- 752 UNID, okay, enough's enough. Who is this guy? Around here the last 4
- 753 to 5 months but still no positive ID. Best around 0400 w/sedate, mostly instrumental mx and poorly modulated SS man. Uses "R. Nacional" slogan but never a hint of country. This is a potent station but WSB-750 makes audio a challenge and direction uncertain. (Thomas, FL)
- 753 a? UNID, hefty carrier here, but no audio. The Costa Rican shifting again? 0455 10/28. (Hall-Patch, BC)

- 753.5 t COSTA RICA, San José, TIRA, presumed, quite weak 0234-0240 10/15. Settled on 755 khz last season but seems to have resumed drifting. (Martin, CO) (See also 752 and below - ed)
- 754v t COSTA RICA, San José, TIRA, given its track record, this must be TIRA. Noted drifting 753.8 and 754.6 khz the past week and occasional s/off at 0500 (but on past 0500 1/14). "R. Nacional" the only readable slogan or location. (Gerry Thomas, FL)
- 754.8v COSTA RICA, San José, TIRA, 0858 12/25, poor to fair w/well-modulated superfast SS talk w/"América Latina" mentioned. Into Latin mx, frequency a few hz as I monitored, also 12/26 on 755.2 khz. (Everitt, OK)
- 755.2 COSTA RICA, San José, TIRA, carrier logged 5/15 for first time since March. Thought they'd disappeared for good. (Thomas, FL)
- 755.5 ? UNID, believe TIRA has drifted here, interference w/1YA-756 always heard after 1100, not before, and is there on mornings when Japanese stations aren't making it in, noted 12/22, 24, 25, 26 and is no stronger than New Zealand signals. (Martin, CO)
- 760 BRAZIL, Fortaleza, ZYH588, R. Uirapurú, in well at LSS (before the fade-in of more westerly Latin stations like Guyana, Venezuela, Colombia, and Cuba); Portuguese nx w/items about São Paulo and Brasília, hotted by Dakar-765 2200 11/23. (Connelly, MA)
- 760 COLOMBIA, Barranquilla, HJAJ, good w/"La Voz de Barranquilla" ID 0225 6/25. (Mark Connelly, MA)  
 \*Loud w/reverberated "RCN" and "La Voz de Barranquilla" IDs 0251 10/1. (Mark Connelly, MA)  
 \*10/9 SS talk noted u/WJR 0523, then fanfares, mentioned Colombia, 0530 "Esta es ... RCN." Now equal to and o/WJR to 0532 tune-out. (Mount, OH)  
 \*w/WJR nulled. 0709-0733 10/15 steady signal reaching fine volume on peaks, but other Latins there too. "Suceso / RCN" ID on the half hour, "La Voz" ID about 0725. Surely my best signal from Colombia and would love to hear this on a clear channel just once. (Martin, CO)  
 \*Creaming KFMB w/excited male announcer and mention of "La R. de Colombia" 0514 10/22. (Bruce Portzer, WA)  
 \*Loud w/bird chirps, boistrous ID, fanfare, festive mx, sliding in o/WJR 2338 10/28. (Connelly, MA)  
 \*10/29 0240, ID as "RCN, la radio de la música en Colombia, La Voz de Barranquilla." (Beaugregard, QU)  
 \*Logged w/network program 0325 10/30 just slightly weaker than WJR. (Stanbury, ON)  
 \*0955 10/30 w/SS talk in well. (Korinek, WA)  
 \*o/WJR w/local Barranquilla nx 0507 11/4. (Connelly, MA)  
 \*Good w/once oche (11:08) TC, "La Voz de Barranquilla" ID, 0408 11/26. (Mark Connelly, MA)  
 \*0236 1/12, super loud w/SS nx, "R. Suceso-RCN" ID. (Connelly, MA)  
 \*0700 1/14, using a "R. Moderna" slogan in addition to usual "La Voz de Barranquilla" ID. (Thomas, FL)  
 \*2359 1/27, loud o/other Latins w/Barranquilla and RCN IDs, no WJR. (Mark Connelly, MA)  
 \*0547 2/10, loud, dominant w/festive SS mx, RCN ID. (Connelly, MA)  
 \*0034 3/4, good w/Colombian mx, "R. Suceso-RCN" ID, o/het. (Connelly, MA)  
 \*0659 3/12, fair to poor in KFMB null w/RCN promo. (Portzer, WA)  
 \*0241 3/31, superloud and dominant w/SS nx and local ads. (Connelly, MA)
- 760 CUBA, La Habana, CHCD, u/WJR w/usual Reloj program 0328 8/18. (Mark Connelly, MA)  
 \*TCs and usual Cuban format 9/18 1108. (Pejza, CA)
- 760 t GUATEMALA, Guatemala, TGHB, Super R., 0353 3/26, likely the marimba mx u/WJR. (Bruce Portzer, LA)
- 760 GUYANA, Georgetown, 8RG, R. Demerara finally bagged, sometimes quite in the clear. Dominant at LSS before Venezuela / Colombia / WJR fade-ins. Man read a list of recent deaths, apparently mentioning all of the relatives of each deceased person; frequent references to Georgetown hospital, relatives in Trinidad and other Caribbean islands, and many Moslem and East Indian names by a man in accented EE. Also "Demerara" mentioned 0013-0031 6/4. Chief interference was WHEB-750 slop. (Connelly, MA)

- t +Suspected here w/song loosely based upon "Greensleeves," then accented EE talk 2359 8/28. (Connolly, MA)  
 +2207 1/13, fair w/TC as 7:07 pm by Caribbean accented female in EE, then reggae-calypso mx. (Connolly, MA)
- 760 MEXICO, Durango, Dgo., XEDGO, 10/30 1239-1243 "R. Capital" IDs fair to good, dominating channel by 1245 w/mention of Durango. (Hall-Patch, BC)
- 760 MEXICO, México, D.F., XEABC, fanfare and "R. Internacional" ID fair w/WJR and KFMB nulled 9/25 1058. (Harms, UT)  
 +ID "...ah beh ceh, R. Internacional" promo tape w/male announcer and mx. Poor, fluttering, overwhelmed by WJR at times 10/30 0557. (Landry, LA)
- 760 ? MEXICO, unid, 1230 10/30 man said what sounded like "transmite XEBA," the B could be V or something similar but no way it sounded like an R. Ideas? (Hall-Patch, BC)
- 760 VENEZUELA, Puerto la Cruz, YVQQ, R. Puerto la Cruz, atop HJAJ; speech about Venezuelan politics 0120 6/9. (Connolly, MA)  
 t +10/15 0312 w/WJR nulled SS heard w/"La Voz de Valencia" ID and Venezuela mentioned. So Valencia could be the singer! (Beauregard, QU)  
 +0237 1/12, talk about Maracay, HJAJ nulled. (Connolly, MA)
- 760 ? UNID, 1100 9/25 man in SS fair, many mentions of México and "nacional" or "internacional." Probably XEABC, but "internacional" sounded like context, not ID. (Hall-Patch, BC)  
 +Who is Latin w/miscellaneous rooster crows amid lots of SS chats? Noted MM 11/20 1115, poor signal and readability. (Hall-Patch, BC)  
 +SS talk by man fair w/CMCI 0258 11/24. (Townshend, DC)
- 765 EL SALVADOR, Usulutlán, YSKLD, YSKL network, poor to fair SS talk by man, then woman 0227 12/14. Dakar barely showing a carrier w/loop turned TA. Again 0548 12/17, very good w/SS play-by-play fútbol game //770. (Doug Everitt, OK)  
 +12/18 0540 several "KL" IDs 0540 and "R. Cadena Nacional" ID 0542. (Joe Krueger, TX)  
 +0242 1/3, fair w/SS popular mx //770. Also 0601 1/8, w/"R. KL," long fanfare, carrier cut, lasted 20 seconds longer on 770. (Everitt, OK)  
 +0355 1/17, in nightly, but rarely at this level. SS man talking, WRTH says this is "D" YSKL outlet. (Thomas, FL)
- 765 ? UNID, carrier and het 11/6 1257, YSKLD suspected. (Korinek, WA)
- 770 COLOMBIA, Bogotá, HJKH, heard w/"Tequendama" mention in pack of Latins totally killing WABC 0126 8/29. (Connolly, MA) (See also 771 and 773-ed)
- 770 EL SALVADOR, San Salvador, YSKL, excellent and totally dominant w/SS fútbol game //765, occasional fades bringing other Latins, but have never seen YSKL this good 0546 12/17. (Everitt, OK)  
 +0243 1/3, // to 765, 0601 1/8 also. (Everitt, OK)
- 770 GUATEMALA, Quezaltenango, TGBX, R. Fraternidad, //670 w/sports 0347 5/20 Poor to fair on this weird frequency. (Baskind, MS)
- 770 VENEZUELA, Valencia, YVKK, R. Nacional, atop WABC w/ID, SS mx, 0050 6/4. (Mark Connolly, MA)  
 +0400 1/31, at s/off fighting w/another Latin and WABC. (Stanbury, ON)
- 770 ? UNID, no US station could have been responsible for the TTs heard at good level 0622 6/19...varied from 1 khz TT to wild rampages on a mood - synthesizer, literally! Scales, bits of songs, sound effects, etc. (Chris Baskind, MS)
- 771v t COLOMBIA, Bogotá, HJKH, R. Tequendama, 0554 2/10, believed to be the drifter here creaming WABC at times, SS male vocal then "Disco Duck" song, ID lost to fade (Murphy's Law), possibly R. Tequendama. (Mark Connolly, MA) (See also 770 and following - ed)
- 773v COLOMBIA, Bogotá, HJKH, R. Tequendama, has been around here lately (e.g. 773.4 4/15, 774.0 4/16, 774.1 5/31). Logged 4/6 0600 w/"La Música del Mundo" program. SS and EE mx at very good level. (Thomas, FL)  
 +0619 4/8, loud, annihilating Costa Rica (775 only a het) SS talk, "Tequendama" mentioned. (Connolly, MA)

- +0405 4/24, w/ID, nice signal but drifts. (Krueger, TX)  
 +0516 4/29, still off channel blitzing 774 and 775, slow SS mx, talk, then disco mx. Instability of carrier obvious when spotted w/the B.F.O. (Mark Connelly, MA)
- 774.1 COSTA RICA, San José, TIW, R. Uno, 0745 4/1, w/disco hetting UNID on 775. Poor signal w/mucho noise. (Thomas, FL) (See also below - ed)
- 775 COSTA RICA, San José, TIW, R. Uno, poor to fair w/rock mx 0344 8/28. (Mark Connelly, MA)  
 +Usual raunch'n'roll w/man intoning "R. Uno" o/top. Fair steady signal 0616 11/17. (Hall-Patch, BC)  
 +Weak w/KOB-770 splash 0625 11/22 w/"R. Uno," then into Fleetwood Mac song. (Randy Tomer, CA)  
 +Good w/"Piano Man" by Billy Joel 0615 11/23. (Connelly, MA)  
 +Very good w/hard rock mx 0646 12/14. 0649 "R. Uno" ID, into softer easy-listening type rock. Again 0540 12/17, very good w/ID by female announcer, into "Jackie Blue." (Everitt, OK)  
 +0609 12/19, good w/SS rock mx, SS talk w/"R. Uno" ID. 0042 12/22 w/rep- etitive disco mx, SS announcements, into Elton John. 0353 12/26, w/SS "Coke adds life" ad, "R. Uno" ID, song "Downtown," seems their rock mx is softening. (Everitt, OK)  
 +0701 1/13, good o/774 khz TA het. SS talk. (Connelly, MA)  
 +0548 2/10, o/heavy 774 khz het. "R. Uno" ID. (Connelly, MA)  
 +0515 4/1, "R. Uno" ID, US popular mx, poor. (Krueger, TX)  
 +0353 5/5, poor to fair w/popular mx, het present on low side. (Mark Connelly, MA)
- 775 ? UNID, fair carrier 1121 10/30. TIW suspected. (Korinek, WA)
- 780 BRITISH VIRGIN ISLANDS, Roadtown, ZBVI, loud w/reggae mx, a summer time LSS regular on Cape Cod 0008 6/4. (Connelly, MA)  
 +Atop SS Latins: hard soul mx, then announcements by US-style announcer, "8:30 in the Virgin Islands" 0030 7/30. (Connelly, MA)  
 +Blasting in w/disco-rock mx, jive-talk announcer mentioning "the number one spot for the entire eastern Caribbean," followed by bursts of Star Wars type ray-gun noises, then reggae mx 0015 8/29. (Connelly, MA)  
 +Good w/screaming DJ, ad for clubs 0113 9/27. (Connelly, MA)  
 +Loud, rolling o/Cuba and WBBM w/"ZBVI" ID, then reggae mx 2340 10/28. (Need I say who in MA)  
 +Super loud w/Caribbean reggae-rock, wolf calls, man w/TC "6:24 in the Virgin Islands," then sexy-voiced woman w/ID followed by disco mx 2223 11/4. (Mark Connelly, MA)  
 +Good to nil w/mx, EE talk, 0200 11/7. DJs accent very similar to those of St. Kitts and Antigua. TCs GMT-4, country number 21. (R. Morby, NY)  
 +Good o/SS Latin w/disco mx, then EE talk by DJ 2311 12/16. (Connelly, MA)  
 +Good w/BBC discussion program 2324 1/10. (Connelly, MA)  
 +0039 1/28, good w/disco mx, talk, o/under Cuban. (Connelly, MA)  
 +2338 2/10, excellent w/reggae instrumental mx, man in Caribbean EE with phone numbers, ZBVI ID. (Connelly, MA)  
 +0010 5/6, fair w/calypso reggae mx. (Connelly, MA)
- 780 CUBA, Camagüey, CMJN, athletic event, rapid SS talk by male 0047 7/13 good, minutes after LSS. (Townshend, DC)  
 +Good w/SS political talk, atop weak Latin mx station 0346 8/30. (Mark Connelly, MA)  
 +Loud w/SS political talk by man 0005 9/29. (Connelly, MA)  
 +Usual Cuban talk noted 1042 10/30. (Korinek, WA)  
 +0700 11/18, Cuban mx weak. (McGonagle, Ireland)  
 +0530 12/17, blasting in w/SS mx. Heard mentions of "Fidel Castro" and ID that sounded like: "Cuba...territorio libre América." (Lee, CT)  
 +0556 2/10, alone on channel w/political talk. (Connelly, MA)  
 +2356 4/7, dominant w/Russian talk by a man and woman. (Connelly, MA)
- 780 EL SALVADOR, Santa Ana, YSKLA, 0435 4/5, weak w/sports event and other R. Universals on 760 (weak), 765 (good), 770 (atop frequency). (Gerry Thomas, FL)
- 780 t NICARAGUA, Managua, YNCN, "Este es...R. América, con una programa..." 1107 11/13 o/Cuban. Tentative since it may very well have been a Honduran in the new HRLP cadena. (Baskind, MS)
- 780 PARAGUAY, Asunción, ZP70, R. Primero de Marzo, broadcasts 24 hours. Will go to 50 or 100 kw. (NZDXT 5/78)

- 780 ? UNID, 10/29 0245 SS w/fútbol, "Margarita" heard many times.  
(Denis Beauregard, QU)
- 790 CUBA, La Habana, CMCH, R. Cadena Habana, o/interference w/ID 0345 11/16.  
(Stanbury, ON)  
+0500 12/28, choir singing Cuban NA, nx commentary followed. Domestic interference. (Landry, LA)
- 790 MEXICO, Chihuahua, Chih., XERPC, "RPC, R. Ranchita" IDs and jingles on top 0526-0620 11/8. (Nittler, NE)
- 790 MEXICO, Mexicali, B.C., XESU, R. Exitos, briefly o/XEVA w/call letter ID 0157 6/13. (Baskind, MS)  
+0225 1/3, "Música moderna" heard through KABC and KGMI mess, mentions of "S-U" and Mexicali, disco mx, faded. (Bytheway, WA)  
+1945 3/4, US pops, SS talk, "R. Exitos" slogans, mentions of Mexicali. (Mittman, CA)
- 790 MEXICO, Villahermosa, Tab., XEVA, finally IDed 0140 6/13. Male DJ must have been new...he shut off the mx twice during a song and IDed incorrectly as XEAV. Poor dude. I know the feeling! (Baskind, MS)
- 790 ? UNID, 0215 3/16, have heard cuckoo marker here many times under interference, weak. (Thomas, FL)
- 800 COSTA RICA, San José, TIGO, R. Centro, 0606 4/9 w/Latin style mx, some popular. Uses a variety of slogans: "...en el centro de...(something) capital."; "Centro" and "Exitosa de la provincia centrale."  
(Chris Baskind, MS)
- 800 MEXICO, Ciudad Juárez, Chih., XEROK, 0745 11/25, SS talk, rock mx, ID as "R. Cientos." (Poda, OH)  
+0707 3/2, ads for health tonics and cure-alls in EE, US rock mx, SS announcer. (Uerlings, OR)
- 800 NETHERLANDS ANTILLES, Bonaire, PJB, "Trans World R.," ID followed by EE religious program featuring Salvation Army style trumpet mx. Good but mixing w/XEROK and CKLW at times, 8/24 0045. (Landry, LA)  
+Local like signal w/EE talk 0347 8/30. (Connelly, MA)  
+9/17 0445-0510 male announcer giving announcements of Trans World R. "Music and You Show," ID at 0500, nx also; "Thought for Today" from the president 0505; ID, frequency, transmitter location and target area 0506; SS 0507; excellent signal. (Massey, TX)  
+ID 0430 10/22 w/man in EE giving announcements of Trans World R., and a religious group in Grand Rapids, MI, paying for one hour on air. (Ted Wilson, CA)  
+2325 1/10, loud w/EE religious talk by a female. (Connelly, MA)
- 800 PANAMA, Chitré, HO??, "Panamá...panameños...la Exitosa!" ID heard 0514 7/74 o/CKLW, XEROK, etc. Not the same style IDs I reported w/TIRH last April. No calls on this yet. (Baskind, MS)
- 804.8 ? UNID, 0625 1/14, bits of SS here, looped Panamá / Ecuador but no ID.  
(Gerry Thomas, FL) (New WFTH lists Ecuador and Honduras on 805 - es)
- 805 ECUADOR, Quito, HCFV1, Canal Tropical, 8/28 1042-1052 fade-out with numerous mentions of Quito, but no clear ID. (Hutton, GA)
- 805 ? UNIDS, 0545 3/23, definitely 2 stations here w/carriers (no audio) detectable on 804.8 (a regular) and 805 khz. One possibility is HCFV1, but w/Yoro back on 800 don't know who the 2nd could be. (Thomas, FL)
- 810 BAHAMAS, Freeport, ZNS3, R. Bahamas, heard in the usual manner...late night saxophone solo cutting through co-channel interference 0619 11/26 //1540. (Chris Baskind, MS)
- 810 COLOMBIA, Bogotá, HJCY, dominant w/"Sutatenza" ID, ads - one about "fútbol" 0116 6/4. (Connelly, MA)  
+O/WGY, man in SS, "Sutatenza" ID 0351 7/9. (Connelly, MA)  
+SS talk by man fair to good. IDed 0059 7/13. (Townshend, DC)  
+1045 12/10, w/Latin mx and "R. Sutatenza" mentioned, clear but weak in CHQR null, w/KGO on quarterly silent period. (Hall-Patch, BC)  
+1000 12/11, instrumental mx, SS talk. (Poda, OH)  
+0121 4/8, good w/man in SS o/other Latins. (Connelly, MA)

- 810 CUBA, Camagüey, CMJE, R. Progreso in charge 1030 8/28 o/Sutatenza.  
(Chuck Hutton, GA)  
+//670 (660 off) 0538 11/26 w/"Hotel California." (Baskind, MS)
- 810 MEXICO, Tampico, Tams., XEFW, announcements mentioned Tampico, rancho  
mx, announcement w/call letters, good to poor w/fading, interference  
from WSJC, 12/16 1227. (Landry, LA)
- 810 PUERTO RICO, San Juan, WKVM, noted w/SS mx, "KVM" jingle, nx headlines  
in SS, fair w/noise 0100 6/25. (Connelly, MA)  
+Dominant w/two "KVM" mentions, nightclub ads, then SS vocal 0427 8/30.  
(Mark Connelly, MA)  
+Totally dominant w/festive SS mx, talk by man and woman in SS, then noisy  
ads w/reverberation and horn fanfare, "KVM" ID (elaborate ID w/jingles,  
reverberation, etc.) 2245 11/4. (Connelly, MA)
- 820 COLOMBIA, Cali, HJED, La Voz del Río Cauca, good w/"Caracol" ID o/SAH  
ratpack 0500 11/4. (Connelly, MA)  
+0514 3/11, to good peaks, w/Columbia nx o/under unid w/non-stop Muzak.  
(Mark Connelly, MA)  
+0538 4/8, good w/CARACOL mentioned, then old time SS hit "Perfidia."  
(Connelly, MA)
- 820 CUBA, La Habana, CMGA, IDed 8/28 1110 as "R. Ciudad de Habana."  
(Chuck Hutton, GA)  
+10/9 instrumental mx 0542, then SS talk by man and woman, back to mx.  
0601 female said "R. Ciudad de Habana" and into march mx or Cuban NA.  
WBAP only slightly a problem. (Mount, OH)  
+0056 1/22, male and female announcers, Cuban style pops, weak, mixed  
w/WBAP. (Landry, LA)  
+0045 2/7, all alone on frequency w/"R. Ciudad Habana" ID. (Stanbury, ON)
- 825 COSTA RICA, San José, TIOS, R. Titania, 0200-0223 10/9, fast talking male  
announcer. Tropical popular mx, fair. (Gerardi, IL)  
+Fair w/religious mx in WBAP-820 slop 0420 11/5. (Everitt, OK)  
+In well w/"Titania" ID superimposed o/beginning of Helen Reddy song  
0702 11/25. (Tomer, CA)  
+0630 12/3, SS mx. (Poda, OH)  
+Good w/dog-barking version of "Jingle Bells," "Titania" mentions 0220  
12/14. SAH of 20 hz evident, probably the Panamá station. (Everitt, OK)  
+0633 12/24, very good, w/SS talk, disco version of "Little Drummer Boy,"  
other Christmas mx, no sign of Panamá. (Everitt, OK)  
+0545 1/3, w/slow SS vocal, "Titania" ID. (Tomer, CA)  
+0607 2/10, fair to good, usual automated "Titania" ID by female.  
(Mark Connelly, MA)  
+0507 2/18, heard briefly w/"Titania" ID. (Tomer, CA)  
+0315 2/23, poor signal but heard "Titania" voiced by usual female o/Bee  
Gees song, on TRF. (Hall-Patch, BC)  
+0517 3/11, very good w/MOR mx, "Titania" IDs by female. (Connelly, MA)  
+0616 4/21, ID by female w/sexy voice, mix of US and Latin pops. Excel-  
lent. (Bill Townshend, DC)
- 825 PANAMA, Macaracas, HOR56, R. Peninsula, loud (audible in 4 khz bandpass  
w/perfect clarity) 8/28 1052-1104. Most of that time was taken up by a  
long tamburito, interrupted at 1100 for a brief slogan ID. Frequency  
announced as 830. (Hutton, GA)  
+1027 10/21, fair w/rhythmic mx, man shouting "¡R. Peninsula!" at end of  
piece. (Nick Hall-Patch, BC)  
+0551-0555 2/11, totally atop at s/off w/ID, "Peninsula" by a man in SS,  
then old-fashioned Latin electric organ mx, followed by march mx  
(anthem?), then OC. (Connelly, MA)  
+0252 3/31, noted w/typical program: live local political speech by SS  
man, atop rumble from TIOS. (Connelly, MA)
- 825.8 ? UNID, weak mystery Latin carrier again this season, noted 0520 9/3.  
Carrier on 825 khz at the same time. (Hall-Patch, BC)
- 826.7 ? UNID, carrier here 0403 10/25. Heard audio once 10/18 0504 w/Latin mx  
but no announcements as yet. In almost every evening. (Bytheway, WA)
- 826.8 t ECUADOR, Santo Domingo, HCBG1, R. Nacional Espejo, faded up to poor  
audio at apparent s/off 0450 11/17. Man talking was mostly unreadable  
(heard "kilociclos"), but Ecuadorian National Anthem which followed was

- quite definite. Listed as 825 and varying in WRTH '78, so a good chance that this is the one. Any other Ecuadorians drift around this frequency? (Nick Hall-Patch, BC)
- 830 COLOMBIA, Medellín, HJDM, R. Visión, 6/13 1000 man in SS w/many RCN IDs. Does this mean they're now RCN as suspected in DXWW II? (Korinek, CA)  
 +Laid back Colombian mx 0337 9/1. (Baskind, MS)  
 +0613 2/10, o/WCCO w/festive brassy SS mx, then "R. Visión" ID. (Mark Connelly, MA)  
 +0533 4/8, loud w/CARACOL ID, then "R. Visión" ID. (Connelly, MA)
- 830 DOMINICAN REPUBLIC, Santo Domingo, HIJB, 10/29 0230 mx, then "R. HIJB" ID. (Denis Beauregard, QU)
- 830 GUATEMALA, Mazatenango, TGAV, heard w/classical mx and informal "Radio Guatemala ID 0324 5/20. (Baskind, MS)  
 +0408 4/19, fair w/sporting event. (Thomas, FL)
- 830 HONDURAS, Tegucigalpa, HRSP, R. Moderna, in all evening 9/24 w/decent signal, slight interference from WCCO, 825 and 834 khz. TC w/cuckoos 0313, several good IDs. (Baskind, MS)  
 +0448 9/29, US popular song followed by cuckoos and female saying "Radio Moderna...hora," then man w/TC, jingle, and man telling us that Radio Moderna is now 10 kw and (I think) asking for reports. Hefty signal for a few minutes. Also noted 9/30 about this time w/mentions of Tegucigalpa and "R. Moderna." (Hall-Patch, BC)  
 +Local quality at times w/KIKI occasionally popping up 0633-0707 9/30. Had what appeared to be a live concert of marimba mx by a group called "Marimba Municipal de Comayagua" per frequent announcements by enthusiastic sounding announcer. One "R. Moderna" ID 0633 and several Tegucigalpa mentions, but also mentioned "R. América" many times (the slogan listed for HRLP-610) and mentioned other slogans I wasn't alert enough to catch. Wonder what was going on...? (Portzer, WA)  
 +Heard a very clear "R. Moderna" ID in the jumble 10/4 0246. WCCO nulled and no sign of the Mexican usually here. Hard to believe it's only 1kw. (It's now 10 kw, see Nick's tip - bp). Believe this station also the source of cuckoo notes heard several times in next 15 minutes. (Gene Martin, CO)  
 +Super loud 0308 10/6. Cuckoo ID marker and reserved Latin ballads. (Gerry Thomas, FL)  
 +End of Latin mx, 3 cuckoos, "R. Moderna" ID by a female, and more cuckoos 0438 10/7. Then man talking w/several mentions of "R. Moderna," then mx. Whole thing repeated 0442. (Bytheway, WA)  
 +10/9 0125-0130, cockoo and ID between records. Weak and fluttery. (Mike Worst, TX)  
 +Cuckoos and ID 0430 11/8 in clear. (Nittler, NE)  
 +Weak u/XELA 0412 11/23 w/"R. Moderna" ID followed by electronic sounds. (Randy Tomer, CA)
- 830 MEXICO, Culiacán, Sin., XEVQ, s/on 1252 10/11, ID as "Rancho Alegre." (Father Jack Pejza, CA)  
 +Fair 0156 11/13 when several "XEVQ" IDs were heard. Not there after 0200. (Randy Tomer, CA)  
 +S/off 12/14 0158-0159. Location and call letters heard. Good o/WCCO. (Bill Harms, UT)  
 +0102 1/29, ID as "VQ," also "VQ en Culiacán." (Krueger, TX)  
 +0158 2/12, "R. Mexicana" ID, and "VQ" mentioned amid man talking in SS, fair on TRF, WCCO soon dominant. (Hall-Patch, BC)  
 +Good w/WCCO down in auroral cx, w/Latin and ranchera mx, loud "VQ" announcements. Belize-834 slop. WCCO soon dominated. (Everitt, OK)
- 830 MEXICO, México, D.F., XELA, sometimes loud u/WCCO 0300-0430 11/23 with classical mx. At 0415 "XELA, buena música en México" was exclaimed, then some chimes from a large clock. (Tomer, CA)  
 +0600 1/31, weak w/ID after classical mx. (Tomer, CA)  
 +0545 2/22, a rare ID on this as: "X-E-L-A" amid SS talk after acres of classical mx. Fair on TRF. (Hall-Patch, BC)
- 830 VENEZUELA, San Antonio de los Altos, YVLT, loud w/"R. Sensación" ID, then spirited brassy mx leading into male SS vocal 0318 6/4. (Mark Connelly, MA)  
 +Loud w/"R. Sensación" ID, TC 8:46, then male SS vocal 0046 6/25. (Mark Connelly, MA)

- +Excellent, w/fast Latin mx, then "R. Sensación" ID 0419 8/29. Good with "Summer Nights" from "Grease" 0428 8/30. (Connelly, MA)
- +Clear ID and all alone 0102 8/30. (Wood, NH)
- t +10/15 0352 likely Venezuela w/GMT-4, Latin and international mx (2 songs from "Grease"). (Beauregard, QU)
- +Bounding in w/"R. Sensación" ID, then elaborate jingle based upon the "Magnificent Seven" theme, then full AM and short-wave IDs by call letters 0501 11/4. (Connelly, MA)
- +Excellent and alone on channel; "R. Sensación" ID, TC "12:08," 0408 11/24. This has become the dominant station here on 830. (Connelly, MA)
- +0100 3/11, excellent w/restaurant ad, elaborate "R. Sensación" jingle ID, then fanfare and further IDs. (Connelly, MA)
  
- 830 ? UNID, Guatemala? 0400 3/8, s/off w/"R. Potente" ID, then "un buenas noches," heard again 0406 3/11, w/singing ID "R. Potente," Guatemala mentioned from a man, then into beautiful mx. (Mittman, CA)
  
- 831a ? UNID, carrier continues here (831.6 3/10, 830.9 3/14) at level occasionally good enough for audio but WCCO-830 and Belize-834 too much. (Gerry Thomas, FL)
- +0439 4/19, finally some solid audio (operatic vocals) but no useful clues. (Thomas, FL)
  
- 832v ? UNID, 0400 1/17 on 831.5, 1/9 on 831.8, 1/26 on 832.3. Carrier nil to fair but no audio yet. (Thomas, FL)
  
- 834 BELIZE, Belize, R. Belize, running SS program fair 0116 9/27. (Mark Connelly, MA)
- +10/9 0200 very poor, man talking, looped south. (Poda, OH)
- +0230-0235 10/9 very bad, rose from het for about 30 seconds at 0231 for what sounded like nx and then back to the het. (Gerardi, IL)
- +10/23 0306-0318, BBC? nx, DJ patter, TC at 0309, good ID 0315, then a play of some kind. Fair to poor signal dodging TVI. (Harms, UT)
- +Excellent w/BBC nx 0301 10/27. Only hitch was severe CW interference on their short-wave patch. (Baskind, MS)
- +Unusually good 0500 11/3 w/nx: item in EE, repeated in SS, another item in EE, repeated in SS, etc. Prayer by man 0508, then s/off announcement 0510. (Bruce Portzer, WA)
- +Strongest signal to date 12/14 0215-0218. Clear ID and talk (nx?) on my clock radio. (Harms, UT)
- +0830 12/21, on late, very rarely do they run regular schedule this late, w/"Leaving on a Jet Plane". (Everitt, OK)
- +0330 12/29, some audio w/singing, loud het w/WCCO-KIKI-830. (Harms / McMillan, ID)
- +0200 3/26, loud w/messages for people in rural areas. (Portzer, LA)
  
- 840 COLOMBIA, Santa Marta, HJBI, Ondas del Caribe, w/TC and mention of Colombia w/WHAS and unid La Voz de Cuba outlet 0859 7/17. (Baskind, MS)
- +Latin mx 0352 9/28. Call, "Ondas del Caribe," frequency and power heard 0400, short fanfare, then man said "Ondas del Caribe presenta la hora romántica" and into romantic mx. (Bytheway, WA)
- +In well but w/frequent short deep fades 10/6 0440-0500, then complete ID, brief bit of mx and promo of sorts w/mention of "Ondas del Caribe," then Colombian NA and off at 0501. No sign of WHAS. (Portzer, WA)
- +S/off 0455 10/8 weak. (Cedar, NY)
- +0417-0455 11/17 w/Latin mx, ID, talk by man o/CMHW w/WHAS nulled. (Rob Gerardi, IL)
- +Fair w/WHAS 0327 11/23 w/lively SS vocals and "Ondas del Caribe" ID. (Randy Tomer, CA)
  
- 840 CUBA, Santa Clara, CMHW, R. Doblevé, 6/12 0928 on top w/NA //660. (Dave Korinek, CA)
- +0320 10/1 w/fair signal w/WHAS. Typical Cuban mx program. (Gerardi, IL)
- +11/1 0457 mixing w/unid SS, man talking in SS, into fanfare, then "Radio Doblevé, cadena provincial de..." ID and what sounded like brief glory statement. 0459 had what I would assume was Cuban National Anthem sung by a group, 0501 carrier off. Het present; it remained after they went off. (Philip Bytheway, WA)
- +Per the above tip, was probably the one w/tail end of announcement by a man, then patriotic sounding group vocal song 0459 11/3, just after HJBI s/off. (Bruce Portzer, WA)
- +Assumed fair to dominant w/SS talk, Cuban anthem, then s/off 0459 11/24. (Mark Connelly, MA)

- +0400 3/12, fair w/SS mx. Two IDs as "Doblevé en Cuba." (Mittman, CA)  
 +Annihilating WHAS w/MoR Latin fare 0230 3/17. (Thomas, FL)
- 840 HAITI, Cap Haïtien, 4VEF, R. 4VEH dominant w/French talk and Caribbean style instrumentals, low het present on high side 0217 7/9. (Connolly, MA)  
 +Squeaked in w/"Amazing Grace" chimes ID //1035 7/14 1059. Poor signal. (Chris Baskind, MS)  
 +Fair w/Caribbean dance mx, then French talk o/SS Latins; low het on high side 0018 7/30. (Connolly, MA)  
 +2350 French male announcer, disco mx, good 10/5. (Straus, NJ)  
 +10/29 0050, talk in French 0120, talk then mx 0145. At 0145 French gospel was so loud I thought it was CKVL-850, then tuned to 850 and took CKVL for CJBC-860. I passed then to 860 and heard a SS I believed to be on 870. When I heard R. Clarin, I came back to 840 4VEH. Country number 19. Consistant until 0200. (Beauregard, QU)  
 +2234 1/13, over others, w/man in slow French. (Connolly, MA)
- 840 NICARAGUA, Managua, YNRR, in well 0131 6/9 w/"R. Noticias...siempre te un companio." ID by female. Fair. (Baskind, MS)
- 840 PANAMA, Panamá, HOL80, R. Libertad, rose above Latin babble 1058 7/14 w/full ID and address as given in WRTH: Aptd Postal 4950, Panamá 5, Panamá. (Baskind, MS)  
 + "R. Libertad, la voz de la revolución" and Panamá mentions fading in and out of WHAS 0500 9/29. Sudden fades from 0501. (Hall-Patch, BC)
- 840 ST. LUCIA, Castries, R. Caribbean, 2344 2/10, three station mix here. St. Lucia w/fast creole French, then reggae mx, o/under suspected Haiti w/serious formal French talk by a man, both o/SS station w/rustic Colombian style accordion mx (probably HJBI). (Connolly, MA)
- 840 ? UNID, 6/12 0910-0929, forgot to turn tape on! In poor w/US rock mx. (Dave Korinek, CA)  
 +0712 7/13, someone running a horribly edited version of "Star Wars" theme as an IS. 23 seconds of mx, phaser noises and repeat. This abomination went on until 0726, when the IS terminated and the signal faded out. How frustrating! (Baskind, MS)
- 840.2 ? UNID, het here 10/25 0333, thought I heard a male announcer mixing with Colombia about this time. Heard most evenings as het and only a little audio. Nick Hall-Patch heard El Salvador here last year, so maybe them. (Philip Bytheway, WA)
- 850 COLOMBIA, Bogotá, HJKC, Emisora Nuevo Mundo, 0504 10/2 mx in SS by man fair o/under WEAT. (Townshend, DC)
- 850 CUBA, Holguín, CMDC, R. Revolución, 0015 11/14 //770 and the rest w/nx and sports, poor overall. (Baskind, MS)  
 +SS talk by a man, mention of Habana, Latin mx heard later. Fair 0230 12/11. (Bill Townshend, DC)
- 850 GUATEMALA, Guatemala, TGX, ID "R. Nacional Guatemala", silly sounding SS popular mx, ID w/call letters. Fair, undergoing grizzly attack, in KOA null 10/25 0640. (Landry, LA)  
 + "En Guatemala...R. Musical, TGX...la equis de exitos," 0607 11/26. Popular SS mx followed. A total switch in programming. (Baskind, MS)
- 850 t HONDURAS, Tegucigalpa, HRU, R. Centro, assumed to be the station running Honduran mx 0302 7/13. Badly muffled promo 0305 ended "...en Tegucigalpa." (Chris Baskind, MS)
- 850 HONDURAS, San Pedro Sula, HRBS, R. San Pedro, running //610 and 630 with sports, "R. América" (cadena) IDs 0605 11/26. See 630 khz 11/13 log for further details. (Baskind, MS)
- 850 MEXICO, Mexicali, B.C., XEZF, ranchera mx, "La Rancherita" ID 1308 9/5. (Father Jack Pejza, CA)
- 850 MEXICO, Zaragoza, Coah., XEZR, good "zeta erray" ID 0435 11/8 on top of KOA. (Bill Nittler, NE)
- 850 ? UNID, 0210 9/12 heard rather weak and unintelligible ID: "Transmite... H-F, la emisora de la gran familia... desde Santa...capital..." into old Latin mx. Haven't had time to check this yet. (Baskind, MS)

- 854 t PERU, Lima, OAX4A, R. Nacional, carrier often heard, audio sometimes heard, ID never heard but presumed the one w/lively SS female vocal 0540 10/4. Given direction and cx don't know who else it could be. (Gerry Thomas, FL)  
 +11/7 0526, w/best audio in many years, but still only fair. ID 0529. (Chuck Hutton, GA)
- t +Just a weak carrier 0445 11/16. (Tomer, CA)
- t +Nil to good in very heavy KOA-850 slop w/sedate SS talk by man 0653 12/14, followed by female announcer 0656; nothing really intelligible in the slop. (Everitt, OK)
- +0610 1/8, possibly the one w/Andean flute mx, but unfortunately they don't give their ID in flute. (Everitt, OK)
- +0403 1/17, familiar carrier here, cx not good enough for steady audio. (Gerry Thomas, FL)
- +0655 2/12, fair level w/solid audio, female vocals. (Thomas, FL)
- +1007 2/12, after listening on and off a couple of hours to non-descript Latin mx, this finally peaked on man w/"transmite R. Nacional," to fair strength audio. (Hall-Patch, BC)
- 854 ? UNID, 0947 6/12, good carrier w/het, probably Perú. (Korinek, CA)
- 860 BRAZIL, Rio de Janeiro, ZYD459, R. Mundial, fair to poor 8/7 0700-0732. On top but it was rather poor. Two IDs but both weak. (Hutton, GA)  
 +wide variety of mx from bossa nova to EE rock, many "Mundial" IDs by man in Portuguese 0705-0805 11/20. Good peaks, long fades. XEMO nulled. My first deep South American. (Feltman, PA)  
 +0637 12/4, up briefly o/SS station. Man w/clear "Mundial" ID during rock mx, becoming a MM regular. (Feltman, PA)  
 +0730-0900 2/19, man in Portuguese, Portuguese and EE popular vocals, "Mundial" IDs, excellent. (Straus, NJ)
- 860 ? CUBA, unkn loc, CM??, a new R. Reloj noted at good strength 0610 11/13. (Chris Baskind, MS)  
 +New Reloj good 11/17 0517 on top and pretty much kills the channel here. (Chuck Hutton, GA) (Latest info shows this to be a network change for CMJY Ciego de Avila, subject to confirmation - ed)
- 860 DOMINICAN REPUBLIC, Santo Domingo, HILR, R. Clarin, talk in SS by female under CJBC 0120 7/13. (Townshend, DC)  
 +Good w/"R. Clarin" ID, SS talk by man, 0429 8/30. (Connelly, MA)  
 +Noted back on all-night schedule 0745 12/10, but may have only been resumed for holiday season. (Stanbury, ON)  
 +Apparently still all-night. ID noted 0615 1/14. (Stanbury, ON)  
 +0045 1/20, Latin mx, o/CJBC w/very good signal, 2 IDs. (Curtis, VT)  
 +0522 3/11, good w/SS vocal and hot jazz trumpet, o/under CJBC; third audio way under (Brazil?). (Connelly, MA)  
 +0706 4/8, atop other SS Latin; festive brassy mx, then "R. Clarin" ID, good. (Mark Connelly, MA)
- 860 MEXICO, México, D.F., XEUN, 0115 9/14, nx w/male announcer, gongs between items. ID "R. Universidad," more tones, female playing classical mx. Poor w/KONO and KOAM interference and unid TT (WDMG?). (Landry, LA)
- 860 MEXICO, Tijuana, B.C., XEMO, s/off 0808 9/4, carrier cut 0809. Mentioned s/on at 1200. (Pejza, CA)  
 +10/23 0535, man in EE w/religion looping west-south-west. Quarter second SAH. Faded and covered by cw mx that looped south-west 0540, but back 0545 w/piano mx. 0555 fair w/male chorus in religion and 0559 piano w/some interference by EE rr. Finally, 0600 "XEMO" ID by man and 0601 promo for tourism to México. (Poda, OH)
- 860 NICARAGUA, Managua, YNAV, R. Continental, seemingly has returned to the air. Heard quite a few "Continental" and "Nicaragua" IDs 0359 7/16, including a SID ending "Nicaragua son." 0400 "La Continental...con la misma señal" supports ID, as it's something a station coming back on would possibly say. (Baskind, MS)
- 860 PANAMA, Chitré, HOL55, R. Reforma, 1056 7/14 super accurate TCs heard (within 2 seconds or so of WWV, that is), ranchera-type mx format. DJ shouted "[cuatro minutos para la seis!]" and keyed a bomb-falling type whistle until top of hour, then females w/SID. (Baskind, MS)  
 +Generally on top of domestics 1038-1112 8/28 w/frequent IDs. Wasn't there just before 1030 so listed s/on time must be correct. (Hutton, GA)

- +0501 12/2, good w/"R. Reforma en República Panamá" ID in CJBC null.  
(John Feltman, PA)
- 860 ? UNID, México? 10/23 0550 poor, looped south west, farther south than XEMO, "La Quincesta" spoken by man in SS, then song by chorus(?) of men. Then man in SS and SS mx. (Poda, OH) (XENL or XEUN probably - bp)
- 865 a CUBA, Guantánamo, CMDN, guess this was the La Voz de Cuba outlet I was chasing across the dial 0600 9/13. Drifting from 863a to 870 khz as I listened. (Thomas, FL) (See also 870 - ed)
- 870 COLOMBIA, Ibagué, HJLA, La Voz del Tolima, 0127 4/8, dominant w/TODELAR ID, fast Latin mx. (Connolly, MA)
- 870 CUBA, Guantánamo, CMDN, SS talk by man fair u/WWL 0225 11/16.  
(Bill Townshend, DC)  
+Easy listening and popular mx. Female announcer, faint, fluttering, w/some fading. WWL off 11/18 0738. (Landry, LA) (See also 865 - ed)
- 870 t HONDURAS, R. Honduras. 10/14 ID 0035 as "R. Honduras, Tegucigalpa, capital de la república de Honduras, América Central." Great w/WWL nulled, no discernable het. Not on 880 as per WRTH-78. (Grossman, BC) (There's a whole network of R. Honduras outlets that have appeared recently. 880 is apparently the flagship station and this one plus others are apparently relays - bp)  
+A new relay here obviously. Fair w/WWL partially nulled 0420 11/4 //880. Maybe the 890 transmitter...I haven't heard them in a while. (Chris Baskind, MS)  
+Noted giving WWL fits 11/6 w/ID 1130. Seemed //880. No sign of 890 R. Honduras for several months, maybe they've moved here to avoid other Central American interference. (Seaver, CA)
- 870 t PANAMA, David, HOL81, R. Guaymi, possibly the SS talk w/ranchita mx fair, mixing w/WWL. No ID heard. I recall reading in DXWWII recently this station had moved here from 890. (Korinek, WA)
- 870 PUERTO RICO, Hato Ray, WHOA, very good w/Seals and Crofts song "Closer to You - Closer to Me," then clear "87 HOA" ID, TC 8:12, more EE talk including marine wx; hetted by unid Latin on 871a 0012 7/30.  
(Mark Connolly, MA)  
+Fair to good w/WWL nulled 0326 10/17 w/EE IDs and talk before fading. (Morby, NY)  
+Good w/US hits 2240 11/4. (Connolly, MA)  
+0020 2/1, w/Tom Jones mx, TC "8:20 on HOA," followed by WHOA promo, good w/het. (Bob Curtis, VT)
- 870 ? UNID, SS station w/beautiful mx 12/14 0205 u/WWL. (Harms, UT)  
+0474 12/19, man talking in SS about "el pueblo del mundo" or somesuch. This was poor to fair w/WWL nulled but no ID. (Hall-Patch, BC)
- 871 VENEZUELA, Caracas, YVKU, R. Libertador, putting a tremendous het on WWL 11/16 2345. Poor ID in slop. (Hutton, GA)  
t +2238 1/13, suspected as the Latin socking 870 khz w/a nasty het. SS talk, fair to good. (Connolly, MA)  
a +2350 2/10, reducing 870 to a het, SS talk, mentions of Caracas and "la mejor de Venezuela," then "la emisora - canal nacional. (Connolly, MA)
- 871 a? UNID, Colombian or Venezuelan suspected, SS talk, mushy audio 2240 11/4.  
(Mark Connolly, MA)  
+Het on the high side of WWL-870 0425 12/15 and a couple other times recently. Causing quite a problem at the time but was not there after 0500 during several rechecks. Venezuela? (Portzter, WA)
- 871.2 ? UNID, 0625 2/19, het on WWL-870, has anyone IDed this one yet?  
(Bruce Portzter, WA)
- 871.5 ? UNID, Latin here w/man in softly spoken SS facing off against wretched jamming-type signal on 870 khz 0220 7/9. (Connolly, MA)
- 875 COSTA RICA, Liberia, TIGPH, R. Monumental, strong carrier and audio 10/18 0426 w/man babbling in SS. 0430 weird electronic sounds and fade out. In and out for next 45 minutes 0528, man talking and into spot w/mention of San José, then into SS mx w/"Monumental" mentioned by a man over record a few seconds into song. (Bytheway, WA)

+Was in very weak and looping to Latin America 1120 11/23. (Peterson, CA)  
+0358 5/7, fair next to WWL-870 w/MoR SS male vocals. No ID on the hour.  
(Gerry Thomas, FL)

875 ? UNID, first noted 7/11 as a het against WWL-870. Reception was poor at best due to fading and noise. Station is EE, plays only cw mx, has no spots, gives wx and occasional nx. Looped toward Central America or Caribbean area. Have heard them go off at 0600 and briefly at 0700-0706. They have been heard on as late as 0800. Closest thing to ID was heard when the temperature was given for "downtown (thunder crash)." Got it on tape and sounds like "Barcelona" (or similar) to me; loaned tape to SMM and he hears something like "Port Limón." HELP! (Bixby, CA)  
+I listened to Bixby's tape of his unid. The city doesn't sound like either Barcelona or Port Limón to me. I thought for a while the town name sounded like "Buenos Aires" but now it sounds more like Fort Bliss (Ft. Bliss is a military reservation near El Paso, stretching across several hundred square miles of desert in New Mexico and Texas.) There seem to be a couple of IDs sounding like KITX and mention of "...the final hour of the Ron Morley (or similar) show..." Before the mention of "downtown" there's an ad beginning "...country wx, brought to you by Gary's Fishing Hole" (I swear that's what it sounds like!). My guess now is that it might be either a pirate, a carrier current station gone wild, or a spurious signal from a legitimate station. (Portzer, WA)  
+Possibly a Nicaraguan here 9/13 w/nx from Managua about every 20 minutes (marked by 2-note chime). Slow to moderate SS vocals and one audible ID 0603 that sounded like "R. Kilodar" (which of course doesn't translate). This logged in the midst of Nicaragua's internal problems and not heard since. (Gerry Thomas, FL)

880 CUBA, Pinar del Río, CMAF, talk in SS by man fair u/WCBS 0123 7/13. (Townshend, DC)  
+Has returned to this spot; heard 0455 10/3 w/easy listening mx under Honduras, violent 3.3 hz SAH between them. All alone after Honduras s/off w/usual lush orchestral mx and female announcer. (Portzer, WA)  
+Apparently back on frequency 10/14. 0530-0559 easy listening mx, SS announcements between records, ID 0559. WCBS nulled. (Worst, TX)  
+0400 12/29, presumed the station u/TGJ. (Harms / McMillan, ID)  
+0940-1005 2/5, fair w/female in SS, mx. (Korinek, WA)  
+0823, 3/1, excellent w/female SS talk. (Korinek, WA)  
+0530 3/11, noted w/Jimi Hendrix record //690, o/other Latins. (Connelly)  
+0255 3/31, wreaking havoc on WCBS w/low-pitched het and program of weird music. (Mark Connelly, MA)  
+0728 4/16, blasting in w/usual glop. (Portzer, WA)  
+(See also 882.8, and 883 - ed)

880 GUATEMALA, Guatemala, TGJ, R. Nuevo Mundo, "Aquí Guatemala" by a man noted, as well as mentions of MW frequency and 95.7 (?) FM frequency. This at 0459 11/5 -- sounded like he was announcing from the bottom of a fishtank. (Hall-Patch, BC)  
+12/15 0344-0352 finally IDed this one 0345 w/SS talk, religious (?) mx; good signal but audio was garbled. O/KRVN and CMAF. No WCBS noted. Country number 15. (Harms, UT)  
+Fair u/KRVN null w/rapid SS talk 0255 11/23. ID at 0300. (Tomer, CA)  
+0355 12/29, Latin mx, "R. Nuevo Mundo" ID. Mixed w/KRVN and CMAF. (Harms / McMillan, ID)  
+0400 1/6, w/SS talk and "Nuevo Mundo" ID. (Tomer, CA)  
t +0510 1/17, presumed the one w/marimba mx in KRVN null. Didn't stick around for the ID. (Portzer, WA)  
+0457 2/9, weak u/KRVN w/"Nuevo Mundo" ID, Guatemala mentions, and Latin music. (Tomer, CA)

880 HONDURAS, Tegucigalpa, R. Honduras here //890 (which was quite potent at the time). This ought to settle the dispute: there are two transmitters, period. The 890 job definitely had a power increase when it was taken over by the junta. Both stations announce Tegucigalpa. 550 is also supposed to be //. (Baskind, MS)  
+Fine "R. Honduras" ID 0531 8/30 after instrumental "Bridge Over Troubled Water." Had presumed this was TGJ but call from another DXer set me straight. (Hall-Patch, BC)  
+Dominant now that CMAF is off frequency. Easy listening mx, local spots and frequent "R. Honduras" IDs 0420 9/7. Local quality. (Thomas, FL)  
+0418 9/9 w/ID "Este es...R. Honduras, voz oficial...armadas...en 880 khz...R. Honduras...en el corazon Central Americano." Het w/Cuban but

- still good. Must have increased power. (Baskind, MS)  
 +Nil to excellent w/IDs and vocal mx 0546-0557 9/26, then "La Patria" talk by man (i.e., about "the fatherland"). S/off announcement 0601, off 0603. (Bytheway / Portzer, WA)  
 +0515-0555 1/4, two mentions of "R. Honduras" at 0556, man finished talk w/"muy buenas noches," guitar mx, s/off (?). (Hall-Patch, BC)  
 +0413 3/8, logged concluding nx. Interference from other Latins and WCBS. (Stanbury, ON)
- 882.8 CUBA, Pinar del Río, CMAF, assumed the one to good peaks w/festive SS mx 0139 9/28. (Connelly, MA)  
 +Tropical mx, very good at times, "R. Progreso" ID 1100 9/18. (Pejza, CA)  
 +Carrier w/some weak voice which sounded SS 1120 9/18. (Peterson, CA)  
 +(See also 880 and below - ed)
- 883 CUBA, Pinar del Río, CMAF, R. Progreso has been around here lately putting a deafening het on 880. Like a local day and night 9/6. (Gerry Thomas, FL)  
 +9/11 w/good mx 0546, female announcer 0555. "R. Enciclopedia" ID 0633. (Philip Bytheway, WA)  
 +9/11 0540-0603 w/usual syrupy mx and unreadable announcements by sweet young thing in SS. No IDs heard but format and receptions by others gave it away. (Portzer, WA)  
 +Someone here w/strong signal 0420 9/16 easily separable from WCBS-880. Noted no ID 0430. Program was light classical mx interspersed w/woman announcer. Is this R. Progreso's format? (Eckman, PA)  
 +0850 9/17 appearing to be just below 885. IDed as "R. ?" 0900. 9/18 0610 very strong w/female announcer in SS and playing rock mx or at least what sounded like rock. (Aden, OR)  
 +First noted here from 0045 9/19. Fair but severe WCBS-880 interference. (Stanbury, ON)  
 +Still here 0643 9/25 w/female announcer and mx. In addition, there was a weak station underneath w/what sounded like SS talk or commentary by a female, then wiped out by mx. (Bytheway, WA) (My first guess would be it's audio from another network leaking through somewhere - bp)
- 885 MONTSERRAT, Plymouth, ZJB, R. Montserrat, poor w/popular mx in noise 0009 7/30. (Connelly, MA)  
 +Here w/rhythmic Caribbean mx, weak as usual, 0033 8/29. (Connelly, MA)  
 +2240 1/13, in w/fair carrier, poor audio, talk by female. (Connelly, MA)  
 +2330 1/22, at 0003 "This is R. ZJB from Montserrat," followed by nx, ad for "Amis Austin." (Krueger, TX)  
 +2352 2/10, fair w/Rod Stewart disco song. (Connelly, MA)  
 +1015 3/26, poor to unreadable w/a man talking. (Thomas, FL)
- 885 PARAGUAY, Puerto Presidente Stroessner, ZP16, R. Presidente Stroessner is scheduled 1000-0430 (Arctic 12/18)  
 +Carrier in and out 0330-0412 4/18, looped 145°. Man in SS briefly appeared 0332 and was steady at 0358 but interfered with at 0400 (aargh). ZP26-645 khz carrier also in well at this time and direction identical. Did not return after 0412 fade. Tentative but tantalizing. (Thomas, FL)
- 890 COLOMBIA, Bogotá, HJCE, in w/"La Voz de Bogotá" jingles and ID atop WLS 0416 8/29. (Connelly, MA)  
 +0458 10/2 chimes, ID as "La Voz de Bogotá" by a male, then nx in SS. Fair. (Townshend, DC)  
 +With the loop aimed right at Chicago and nothing coming from WLS, heard Todelar chimes 0315 10/4. (Martin, CO)  
 +Heard w/"La Voz de Bogotá" ID 0619 and way on top of WLS 10/8. (Block, OR)  
 +9/28 0726 w/chimes, frequent IDs, and mx. WLS nulled. (Harms, UT)  
 +0457 10/30 briefly through WLS w/"La Voz de Bogotá" ID and chimes, then gone. (Randy Tomer, CA)  
 +Very good w/some SAH from nulled and aurorally suppressed WLS 12/14; 0659 w/"La Voz de Bogotá" mentions, something about "en centro Colombiana" or similar, 0700 3-note doorbell, more "La Voz de Bogotá" IDs. (Doug Everitt, OK)  
 +12/16 0729 topping the frequency w/clear mention of "La Voz de Bogotá." No sign of WLS. Also a 1 khz het or TT in there. Gone moments later. (Bill Hardy, WA)  
 +Doorbell chimes IS noted u/WLS null 0300 11/25. Some SS talk, then gone. (Randy Tomer, CA)  
 +This one bothering WLS 12/14 0314-0320. SS mx, talk, ID "La Voz de Bogotá." (Harms, UT)

- +0357 12/29, o/WLS w/Latin mx, "La Voz de Bogotá" ID. (Harms/McMillan, ID)  
 +0725 1/7, w/chimes and ID, then SS vocal, no WLS. (Tomer, CA)  
 +0747 2/7, w/SS popular mx, 0752 Todelar ID, full ID at 0800 "Los habla La Voz de Bogotá, HJCE, 890 khz. Es en radio centro, Todelar, el circuito del pueblo Colombiano." (Bixby, CA)  
 +0110 3/11, good w/romantic female vocal, SS talk, "La Voz de Bogotá" ID, advertisements. (Connelly, MA)  
 +0124 4/8, good w/"La Voz de Bogotá" ID, SS version of "Blue Bayou." (Mark Connelly, MA)
- 890 DOMINICAN REPUBLIC, Santo Domingo, HIPJ, R. Continental, w/"Calidad Eldorado" mention, popular SS tunes 0117 7/13. (Baskind, MS)  
 +Good w/Santo Domingo ads 2317 10/22. (Connelly, MA)  
 +2241 1/13, fair to good o/low het, talk about Santo Domingo companies. (Mark Connelly, MA)  
 +0015 4/5, fair w/"R. Continental" ID, female SS vocal. (Connelly, MA)
- 890 HONDURAS, Tegucigalpa, 0410 12/28, "R. Honduras" slogan ID. (Krueger, TX)
- 895 t HAITI, Gonaives, 4VB, 0640 1/1, presumed by direction to Hispanola with French, 4VRMN s/off listed 0600 so 4VB. (Thomas, FL)
- 895 ? HAITI, loc unkn, 4V??, 0303 3/17, one of the Haitians making it in but too poor for details. (Thomas, FL)
- 895 a? UNID, Guyana? Either GBS or R. Demerara may have a new transmitter here; heard 0857 8/12 w/fair signals and moderate Mexico-900 slop during deep fades. First noted religious program by accented man, then switch to popular format and morning wake-up soul DJ welcoming listeners to the "Saturday Morning Show" 0906. GMT -3 TC 0917, announcer laid down such lines as "Come on...wake up and jump around, you've got reason to. It's Saturday, man." By 0926 serious fading began to hinder intelligibility and the last dying gasp of audio was heard 0933; man reading obituaries w/mentions of the United Kingdom. Called Ron Schatz - he says Guyanan LSR roughly coincides w/0933 fade-out. Coupled w/Trinidad type accents of the announcers and definite GMT -3 TC, I hazard the tentative Guyana ID. Gerry Thomas says R. Barbados is currently drifting around this frequency, but there would appear to be 2 different Caribbean stations here. Why, knowing Barbados is present, insist I this is Guyana? 1. Aformentioned accent. CBC has rather refined jocks, the guys I heard sounded like refugees from a bad voodoo movie. 2. Barbados has always signed on at 0930. 3. Barbados is GMT -4. It should be pointed out that the religious program heard seemed live (though tape analysis is not complete); CBC's is supposedly taped, and Gerry's contacts have been around sunset, mine the opposite. Before anyone sharpens their knives, no, it isn't Haiti w/EE. They're GMT -5. Also interesting to note is the bottom of hour obits, rather reminiscent of Connelly's Guyana-760 contact recently. So, armed w/the above and knowing full well Guyana is GMT -3, I retire to write letters to the three stations in question. Sure hope this is resolved soon. (Baskind, MS)  
 +Barbados back on 900 but weak carrier w/occasional audio here almost every evening. Looped Hispanola but if this is the Haitian, R. Nuevo Mundo, they've cut power or changed antenna. (Thomas, FL) (4VRMN was widely heard here a few months ago, but since they haven't been reported lately they may have moved back to 910. 4VB, 1 kw, listed here and may be your unid - bp)  
 +0525 3/11, carrier, bits of mx, maybe R. Artibonite, Haiti. (Connelly, MA)
- 896 a BARBADOS, Bridgetown, C.B.C., has been around here (plus or minus 1 khz) nightly since first noted 8/9 0230. Mx is mostly EE MoR and between 0200 and 0300 IDs are rare (though tend to occur at 18 minutes after the hour w/TCs---"This is CBC, R. Barbados and the time is now 18 minutes after..."). Mostly fair but occasional peaks to almost good. (Gerry Thomas, FL) (See also below - ed)
- 900 BARBADOS, Bridgetown, C.B.C., good w/EE discussion of European Economic Community, then "R. Barbados" ID by woman, followed by Muzak; mostly o/IVMD which could be heard clearly behind 0022 8/30. (Connelly, MA)  
 t +Assume this the one heard 0835 9/16 w/Caribbean produced EE religious program. Note time of reception - no ID audible before 0850 fade-out but I think it's best I withdrew my tentative "Guyana-895" log. My main argument was s/on time; now it seems Barbados is on before the old 0930 spot. If Barbados went GMT -3 it would explain everything. Oh well, will keep the tape anyway. (Baskind, MS)

- +Briefly o/the pack w/"Dial a dedication" phone-in program 0208 10/2.  
(Mark Connelly, MA)
  - +2320 10/31, accented EE ID, dominant on frequency, mention of registering for school. (Linda and Roger Morby, NY)
  - +To excellent peaks, clearly dominant o/SS Latins: Barbados sports reports by man in Caribbean EE 2321 12/16. (Connelly, MA)
  - +2310 1/11, mx in progress by man and woman, in and out, good on peaks, heavy Canadian interference. (Straus, NJ)
- 900 GUATEMALA, Puerto Barrios, TGMA, 12/5 1142. Heard "este es R. Amatique" in splatter from XEW null. (Krueger, TX)
- 900 MEXICO, México, D.F., XEW, o/CKTS; SS talk including "XEW" ID, many ads, 0142 9/29. Somewhat rare here. (Connelly, MA)  
 +10/9 0158 fair, man in SS, loops south west. (Poda, OH)  
 +0742 12/3, man in SS giving list of stations, XEQ, XEW, etc., and locations. Possible 0745 s/off. (Poda, OH)  
 +0400 3/26, loud w/chimes and call ID o/unid SS. (Portzer, LA)
- 900 VENEZUELA, Maracaibo, YVMD, dominant w/"R. Mara de Maracaibo" ID by a woman, then mx 0341 8/29. (Connelly, MA)  
 +To good peaks o/fast SAH mess; uptempo Latin vocals, then several "R. Mara, Maracaibo" IDs 0454 11/4. (Connelly, MA)
- 905 ? UNID, 0400 1/9, very lively Latin mx, bits of man in SS talking here, mostly just a carrier. Would assume an Ecuadorian but seemed to loop well east of Ecuador. (Thomas, FL) (How about YSQJ El Salvador - es)
- 910 GUATEMALA, Guatemala, TGKL, noted 0430 6/1 w/"R. Emperador de Guatemala" by a female. (Baskind, MS)
- 910 VENEZUELA, Maiquetía, YVRQ, good w/several "R. Aeropuerto" IDs, then 1940s era Latin mx w/horns and slow male vocal 0532 11/4. (Connelly, MA)  
 +2329 1/10, good w/man and woman in SS, then "aeropuerto" jingle. (Mark Connelly, MA)  
 +0112 3/11, fair w/SS talk, "Aeropuerto" ID and TC. (Connelly, MA)
- 910 ? UNID, SS talk 10/9 0656, vocal 0658 bits and pieces after that w/WGAF on auroral night. (Mount, OH)
- 914 SURINAM, Nieuw Nickerie, RANI, fair w/East Indian mx and talk 2338 8/28. (Mark Connelly, MA)  
 +Very loud w/female vocal and flute accompaniment to reggae beat 2236 11/4. (Mark Connelly, MA)  
 +At long last 0029 11/13. Several minutes of Hindustani chanting by a female w/native instrumental accompaniment on tape...finally overcame severe IF second harmonic (2x455 khz) on TRF. (Baskind, MS)  
 t +Strong w/OC 2323 12/16. (Connelly, MA)  
 +2243 1/13, poor to fair w/exotic mx similar to Arabic mx. (Connelly, MA)  
 t +2330 1/13, eastern-sounding mx but no readable voices. (Thomas, FL)  
 +2315 2/8, finally some audio after weeks of carrier only, good w/Hindustani type vocals, man talking. (Straus, NJ)  
 +0108 3/30, fair w/weird melodic talk by a man. (Thomas, FL)
- 915 ? UNID, 0410 1/17, better than average Latin cx produced nice carrier and bits of Latin mx. Ecuador presumed. (Thomas, FL)  
 +0105 3/30, carrier hetting Surinam. This didn't loop Ecuador, but rather Guatemala-El Salvador-Honduras area. TGKL maybe? (Thomas, FL)
- 919 COLOMBIA, Cartagena, HJAE, bombing WJAR-920 out; boistrous "Emisor Fuentes" ID 0415 8/29. (Connelly, MA)  
 +Atop feeble 920 het: carnival type Latin instrumental mx 0449. Loud and in clear w/booming reverberated "Fuentes" ID and Cartagena mentions 0621 11/4. (Connelly, MA)  
 +Atop WJAR-920 w/raucous het and SS talk by man 2324 12/16. (Connelly, MA)  
 +(See also 920 - ed)
- 919.5 ? UNID, 0640 1/14, someone hetting KARN-920, looped about northwest / southeast, possibly domestic. (Thomas, FL)
- 920 t COLOMBIA, Cartagena, HJAE, 0050 1/16, suspected w/Colombian type music, fair. (Townshend, DC) (See also 919 - ed)

- 920 GUATEMALA, Escuintla, TGRS, R. Sur running locally produced taped religious program "La Voz de Dios" 1042 5/30. Man read letters from listeners (always comments "Gloria señor" or Gloria díos"). Ranchera and hymns. Wall-to-wall signal. (Baskind, MS)
- 925 COSTA RICA, San José, TICM, R. Juvenil, poor to fair 1035 6/9 w/light instrumental mx. (Baskind, MS)  
 +Presumed w/good signal, SS popular mx, Latin mx, SS talk w/Costa Rica mentions in WKY-930 slop 0610 12/17. Not at all bad in WKY lulls. (Doug Everitt, OK)  
 +0140 1/22, "Juvenil" ID, U.S. pops. (Krueger, TX)
- 925 GUATEMALA, San Pedro Carcha, TGJL, presumed the same station Baskind reported 7/8 w/romantica mx and many Guatemala mentions from 0450. Definite "R. Imperial" IDs. Fair overall. (Thomas, FL)  
 +0420 1/1, "R. Imperial" fair w/man in SS, Latin mx and frequent IDs. (Gerry Thomas, FL)
- 930 COLOMBIA, Bogotá, HJCS, R. Continental, u/domestics, Cubans, etc., with Todelar chimes 0257 7/14. (Baskind, MS)  
 +About even with the Reloj all 8/28 morning. (Hutton, GA)  
 +Good 0655 9/13 w/soft Latin mx and IDs marked by NBC-like bells -- "R. Continental, la radio profesional." (Thomas, FL)  
 +Surfacing to fair level while I was camped on 930 for DX Test 10/23. Fairly lively Latin mx (e.g., "Maria") 0709. (Thomas, FL)
- 930 t HONDURAS, La Ceiba, HRKW, possibly in 0449 11/4 w/"Escribe: R. (El Patio?), Apartado Postal \_\_\_5." Just not sure of ID; additionally, the address does not even remotely match the one given in WRTH. Very tentative. (Baskind, MS)
- 930 MONTSERRAT, R. Antilles heard at long last 0400 8/5 w/IS (as described in the WRTH), very poor u/Florida, Mexico, Colombia, etc. Tight directional antenna makes this one tough here. (Baskind, MS)  
 +Uses the slogan "The spirit of the Caribbean." (Arctic, 5/5/78)  
 +0305 11/8 w/coverage (in SS) of the US elections and their political ramifications on US Caribbean policy. Excellent ID for tape library 0307, note the "International" tack-on. (Baskind, MS)
- 939 ? UNID, het, perhaps TGTL noted before 0110 10/23. (Connelly, MA)  
 +Probably Venezuelan or Colombian, mushy audio and apparent SS talk, hetting CBM-940 w/potent carrier; too early for Central America 2323 11/15. Looped east of south, almost towards Africa. (Connelly, MA)
- 940 COLOMBIA, Cali, HJGB, R. Eco, dominant on frequency (no sign of Reloj pest) 0721 4/30. (Baskind, MS)  
 +0612 4/8, good w/slow SS male vocal ballad, "R. Eco de TODELAR," atop Cuban Reloj station. (Connelly, MA)
- 940 CUBA, Cienfuegos, CMHF, R. Reloj, dominant w/usual program 0513 7/29. (Mark Connelly, MA)  
 +Outlet here o/under CBM; usual non-stop SS nx and TCs 0345 8/29. (Mark Connelly, MA)  
 +0731 12/27, the usual u/WYLO and others. (Landry, LA)
- 940 MEXICO, México, D.F., XEQ, 10/9 0158 good, man in SS and song. Also 70/9 0555 good, man in SS, talk 0601, ID "Ehkees-ay-koo," "Radio-Television," etc. Faint Latin under them. (Poda, IL)  
 +10/14, s/off ceremonies 0600-0605. Strong. (Worst, TX)  
 +Good to dominant w/ID by callsign, México, D.F. ads, festive vocal mx, 0524 12/10. 900 was also good o/under Canadians. (Connelly, MA)
- 940 VENEZUELA, Punto Fijo, YVNW, R. Punto Fijo, o/other Latins and CBM; ad for Banco del Caribe, then sporting event w/Caracas team 2325 12/16. (Mark Connelly, MA)
- 944 HONDURAS, Tegucigalpa, HRYW, R. Panamericana, 0505 9/1 super loud with automated MoR format. (Baskind, MS)  
 +Loudest ever heard 0435 9/7 w/concertina mx and IDs. Very good level and clear. (Thomas, FL)  
 +Is part of the "Cadena Nacional" per 0410 9/23 tune-in. Runs program "Aquí Honduras" around this time. (Baskind, MS)  
 +Weak w/moderate SS talk and Latin mx 0308 11/7. (Everitt, OK)

- +12/14 0132 w/several mentions of Tegucigalpa. (Krueger, TX)  
 +Fair to good w/occasional fade to almost nil w/Latin mx, male SS announcer 0528 12/18. (Everitt, OK)  
 +0346 3/15, w/organ rendition of "Sir Duke." (Thomas, FL)  
 +0136 3/23, good w/Tegucigalpa mentions. (Krueger, TX)
- 945 ? UNID, 10/9 0550 poor to fair w/SS mx, then female talking, ID as "R. Paramason (?)," heard again 0555 and then "...presente" and piano notes 2 or 3 times followed by more Latin mx. Faded before 0600. (Poda, OH)  
 (Sounds like HRYW, Tegucigalpa, R. Panamericana, on 944 - bp)
- 950 CUBA, La Habana, CMBF, 1705 7/9 u/WBKH w/talk in SS, some semi-classical mx around 1710. (Baskind, MS)  
 +Talk by man in SS 0146 7/13 and again 0159. Fair u/CBM-940 slop and WPEN. (Bill Townshend, DC)
- 950 MEXICO, Nueva Rosita, Coah., XEYJ, R. Rosita, 0225 9/15 SID, repeated frequently. SS popular mx, occasional US rr selection. Rapid-fire announcements in contrast to mx selected by male DJ. KPRC off but gets eaten up nightly by this monster. (Landry, LA)
- 950 VENEZUELA, Caracas, YVKG, loud w/"R. Visión" ID jingle. SS talk by man and woman, TC 8:40, 0040 8/29. (Connelly, MA)  
 +A blockbuster totally dominant to local-like w/male SS vocal, ID, then female SS version of "It's A Heartache" 0448 11/4. (Connelly, MA)  
 +Loud and alone on channel w/ad for something in Maracay, then sporting event in SS - different announcer from 940 khz but possibly the same game 2326 12/16. (Connelly, MA)  
 +0930 2/12, good w/WPEN OC, "R. Visión" IDs, Caracas ads. (Straus, NJ)
- 960 BERMUDA, Hamilton, ZFB, mostly o/HJHN; EE nx w/many local items, then wx and jingle "The music's on us - 96 ZFB," followed by disco-rock 2229 11/4. (Mark Connelly, MA)
- 960 COLOMBIA, Magangué, HJHN, R. Sutatenza, atop jumble w/World Cup Soccer results in SS //810 0117 6/4. (Connelly, MA)  
 +Good to dominant w/accordian mx w/SS male vocal 0335 6/25. This pest pretty well kills any chance to get ZFB Bermuda under weakened-domestic conditions. (Connelly, MA)  
 +Loud w/"Sutatenza" ID, TC, ads 0350 8/29. (Connelly, MA)  
 +U/ZFB w/"R. Sutatenza Magangué" ID 2230 11/4. (Connelly, MA)  
 +News in SS by a man, spots for Bank of Bogotá, then Latin mx (merengue) w/male vocal. Fair to good o/WFIR (no trace of WFIR later) 2333-2335 12/19. (Bill Townshend, DC)  
 +0504 12/23, "Sutatenza" IDs. (Krueger, TX)  
 +2325 1/11, excellent w/light instrumental mx, "Sutatenza" ID. (Straus, NJ)  
 +0243 1/12, atop domestics w/"Sutatenza" mentioned, SS talk. (Connelly, MA)  
 +0029 3/4, to good peaks w/flute mx, "Sutatenza" ID, WFGL nulled. (Mark Connelly, MA)
- 960 MEXICO, Nuevo Laredo, Tams., XEK, 0135 9/15 border-style SS mx, ID with call letters mentioning Nuevo Laredo. Signal first turned up as a het against unid US station w/WERC off 0131. (Landry, LA)  
 +0350 5/9, very good in WERC null w/beisbol game. (Thomas, FL)
- 965 ? UNID, carrier in slop, seemed to loop for south Central America or north west South America at old location 0718 12/14, w/occasional snatches of SS talk and fast paced mx. Ecuador and Panamá are candidates. (Doug Everitt, OK)  
 +0425 2/16, very weak carrier, no audio. (Thomas, FL)
- 970 COLOMBIA, Bogotá, HJCI, La Voz de la Víctor, fair to good w/emphatic ID 11/26 0115. Inaudible without WAVE phased out. (Hutton, GA)
- 970 MEXICO, Ciudad Juárez, Chih., XEJ, MoR SS mx, ID "R. Mexicana," call letters. Announcement by a female, another ID, then ranchera mx. Intermittant, mixing w/several stations 10/25 0545. (Landry, LA)
- 970 U.S. VIRGIN ISLANDS, Christiansted, St. Croix, WSTX, 2245 12/22, peaking to fair, WCSH nulled, "97X" ID, Caribbean EE talk and mx. (Connelly, MA)
- 975 COSTA RICA, San José, TIAZ, R. Centroamericana, 0228 9/12 w/Latin mx and ID o/weak carrier. (Baskind, MS)

- t +0426 10/25 strong carrier hetting TVI. 0433 female vocal song fade-up followed by male announcer and fade-out. Fade-up 0443 w/Latin romantica mx. Noted carrier abruptly go off 0501. (Bytheway, WA)
- t +Most likely w/good signal and Latin mx w/lots of drums and men singing in unison 0724 12/14. Again w/same format 0440 12/18. (Everitt, OK)
- t +0628 12/28, good w/Latin mx, lots of SS talk, no ID on the half hour. (Doug Everitt, OK)

- 980 COLOMBIA, Cali, HJES, R. El Sol, fair, no domestics readable 8/28 0700. ID and RCN promo - not a Todelar station as per WRTH. (Hutton, GA)
- 980 CUBA, La Habana, CMCK, running R. Habana Cuba program "La Cancion" 0640 7/13. Gave usual Apartado 70-26 address. (Baskind, MS)
  - +0418 10/2 SS songs by male vocals; good w/local WRC off. (Townshend, DC)
- 980 MEXICO, Ciudad Cuauhtemoc, Chih., XEER, ID w/piano mx 0539 5/2: "XEER, novecientos noventa khz...(garbled)..su emisora actil(?)..." Though announces 990 is here on 980 battling XENR. Odd. (Baskind, MS)
- 985 ? UNID, carrier in moderate slop 0445 12/18, some SS talk in slop lulls. Ecuador or Perú likely. (Everitt, OK)
  - +0608 3/23, carrier detected here finally. (Thomas, FL)
- 990 CUBA, Pinar del Río, CMAS, R. Guamá outlet u/bad slop 0352 5/25. (Chris Baskind, MS)
  - +Heard again 0300 11/8 //1020 etc. w/local programming. (Baskind, MS)
- 990 MEXICO, Ciudad Guzmán, Jal., XEBC, alone on frequency w/marimba mx 1102 5/30. Had just signed on. (Baskind, MS)
- 990 MEXICO, Monterrey, N.L., XET, strong 8/23 w/typical SS mx and announcements 0620. (Allchin, New Zealand)
  - +ID, Monterrey mentioned several times in promo. Quickly buried in interference 8/24 0210. (Landry, LA)
  - +0447 10/2 SS song by female, fair. (Townshend, DC)
- 990 VENEZUELA, Barquisimeto, YVTA, very good w/"R. Tricolor" jingle, SS talk and more IDs, 0403 8/29. (Connelly, MA)
  - +Good w/frequent "Tricolor" IDs interspersed w/SS mx 0052 10/2. This has become somewhat of a channel dominant (displacing CBY, WZZD, WNOX) w/the upswing in solar activity. (Connelly, MA)
- 995 ECUADOR, Guayaquil, HCEW2, R. Suceso, fair w/plaintive SS vocal; het from something on 994.4a khz 0119 9/27. (Connelly, MA)
  - +My South American indicator station, seldom in better than 0605 10/4 w/moody SS vocals. (Thomas, FL)
  - +Outstanding signal, audio rough in slop, male announcer in SS 0357 11/6. (Doug Everitt, OK)
  - t +0608-0611 11/27 finally heard audio from this one, easy listening mx, slow vocals. (Cartwright, PA)
  - +Excellent 0515 11/26 w/"Suceso, la romantica de Guayaquil" ID, very strong. (Hutton, GA)
  - t +Carrier and easy listening mx here 1018 12/4. Unreadable brief announcement by man between songs 1027, then faded. Faded up briefly every 5 to 9 minutes until 1044 when I gave up and went to bed. (Bytheway, WA)
    - +12/13 0246, mention of Ecuador 0246, part of "White Christmas" by 0250 and part of "Jingle Bells" 0252. SS song called "Requertos" by male vocalist 0307. Repeat of "Jingle Bells" jingle 0310 and another mention of Ecuador 0311. A short fade 0313 followed by "La Romántica Guayaquil." (Joe Krueger, TX)
  - t +0728 12/14 w/weak carrier only in massive KTOK-1000 slop w/occasional SS talk surfacing during quiet periods. Again w/carrier in slop 0455 12/18. (Doug Everitt, OK)
    - +0623 12/28, good w/SS Latin mx, no announcements. (Everitt, OK)
    - +0412 1/17, fair signal, bouncy Latin rhythms. (Thomas, FL)
    - +1205 1/29, heard w/poor to good audio for much of MM. Mostly Latin ballads and man talking, no ID until 1205 when mention of "Estación romántica de...." (Hall-Patch, BC)
    - +0601 3/11, fair w/SS talk, then female romantic vocal. (Connelly, MA)
    - +0743 3/25, "La Romántica Guayaquil" ID, excellent. (Krueger, TX)
    - +0325 5/5, poor to fair w/emotional male SS vocal. (Connelly, MA)
    - +0434 5/22, w/female ballad. (Thomas, FL)

- 995 HAITI, Port-au-Prince, 4VCPS, R. Cacique, is now here from 990 as per a friend in Florida. (Baskind, MS)  
 +Man singing in French 0058 10/9; mostly carrier but identifiable. (Chris Baskind, MS)
- 1000 BOLIVIA, Trinidad, CP119, R. Tropic broadcasts 1130-0500 here with 3 kw. (NRC 12/18/78)
- 1000 COLOMBIA, Cartagena, HJAR, La Voz de Cartagena, good w/man in SS, Colombia business ads 0152 7/9. (Connelly, MA)  
 +Assumed here w/clear "RCN" ID (atop other Latin w/lively mx) 0407 8/29. (Mark Connelly, MA)  
 + "La hora nacional de RCN," TC, Bayer Aspirin ad, network program 0100 8/30. (Wood, NH)  
 +Good o/jumble, SS nx report, "RCN" ID, ads 0015 10/23. (Connelly, MA)  
 +12/19 "RCN" ID 0248 followed by mention of Colombia, advertisement, and songs in SS. (Krueger, TX)  
 +2248 1/10, slamming in w/SS mx, mentions of Cartagena. (Connelly, MA)  
 +0930 4/16, fair w/RCN mentions. (Thomas, FL)  
 +0553 4/6, in w/"RCN" ID atop other Latin, growl resulting. (Connelly, MA)
- 1000 ? CUBA, CM??, unlisted R. Reloj all morning 8/28, weak but louder than normally dominant La Voz de Cartagena. (Hutton, GA)  
 +Cuban march theme mx, SS talk, u/WCFL 0355 8/28. (Connelly, MA)
- 1000 DOMINICAN REPUBLIC, Dajabón, HIHG, "Este es ...R. Beler" ID heard as I hesitated on frequency to get a TC 1016 7/14. "En Dajabón" popped through a moment later. (Baskind, MS)
- 1000 MEXICO, México, D.F., XEOY, 0434 10/2 SS song by a man //XEQ-940 and XEQR-1030. Fair. (Townshend, DC) (What you probably heard was "La Hora Mexicana," which all Mexican stations are supposed to carry Sunday nights (local time) 0400-0500 - bp)  
 +0845 5/14, 4-note whistle IS and female singing "es R. Mil," poor but clear. Detuned slightly from KOMO OC. (Hall-Patch, BC)
- 1000 t NICARAGUA, Managua, YNTS, R. Mil, carrying R. Nacional de Nicaragua program 0400 11/17. Possibly R. Mil as I've noted many Nicaraguans relaying 620. (Hutton, GA)
- 1000 PARAGUAY, Paraguari, ZP., R. Ypoa, has received permission to operate here with no more than 10 kw. (Arctic, 11/17/78)
- 1000 VENEZUELA, Morón, YVNM, atop w/"Mil" ID o/mess of other Latins 0312 6/4. (Mark Connelly, MA) (There are about 5 R. Mil's listed here, so some caution should be observed when logging one - bp)  
 +0129 4/8, dominant w/"R. Mil" ID. (Connelly, MA)
- 1005 COLOMBIA, Neiva, HJJR, R. Colosal, fair w/festive-style SS male vocals 0106 6/4. (Connelly, MA)  
 +Noted 0901 7/13 w/"R. Colosal...la grande" ID. (Baskind, MS)  
 +Many IDs, local ads 0400 8/30. (Wood, NH)  
 +Heard briefly 0425 10/23 w/SS mx and mention of Colombia; weak. (Randy Tomer, CA)  
 +Poor w/SS talk through intense KTOK-1000 slop 0550 11/6. (Everitt, OK)  
 + "R. Colosal" ID noted 3 times as man yakked in SS during fine fade-up 0631 11/6. (Hall-Patch, BC)  
 +Nice ID w/slogan 11/26 0403. (Krueger, TX)  
 +Fair to good w/Latin mx, male announcers in SS 0522 12/18 w/mentions of Colombia. (Everitt, OK)  
 +0635 12/28, fair, well modulated Latin mx, briefly atop KTOK-1000 slop. (Doug Everitt, OK)  
 +0640 1/2, in lighter than usual KTOK-1000 slop, w/old sounding Latin mx, good modulation level. (Everitt, OK)  
 +0840 1/5, w/SS vocal. (Tomer, CA)  
 +0645 1/14, fair w/"festival" program. (Thomas, FL)  
 +0510 1/31, presumed the station w/man in SS nx, fair to fady w/heavy WINS-1010 slop. (Straus, NJ)  
 +0745 2/22, assumed the source of Latin mx. (Tomer, CA)  
 +0159 4/4, "R. Colosal," Todelar chimes and ID. (Krueger, TX)  
 +0324 5/5, poor w/SS talk. (Connelly, MA)
- 1005 ? UNID, "R. Valencia" announced by male in SS 8/24 0025. (Bailey, MA)

- 1010 COLOMBIA, Barranquilla, EJOP, 0315 12/24, fair through WINS w/mx and "Sutatensa" ID, //960 khs. (Feltman, PA)  
+0014 12/30, mx by man in SS, no ID but Sutatensa suspected. Fair to poor. (Townshend, DC)
- 1010 COLOMBIA, Bogotá, HJGC, Emisora Mil Veinte, 0633 5/30. I wonder why this station IDs as R. 1020 instead of 1010. (Baskind, MS)  
+Superb 0700-0730 8/28. Very loud w/nothing underneath. (Hutton, GA)
- 1010 COLOMBIA, Pasto, EJBN, La Voz del Galeras, "H-J-B-N, viene su música.." ID 0506 5/8. Faded right after ID. (Baskind, MS) (See also 1037 - ed)
- 1010 CUBA, Guane, CMAP, 0128 1/22, male commentary, "R. Guamá" ID, SS pops, fair, riding atop domestic interference. (Landry, LA)
- 1010 MEXICO, Guadalajara, Jal., XEHL, male announcer referred to station as "AH-cheh EH-leh," MoR SS mx, fair to good 9/30 0505. (Landry, LA)  
+0850 1/15, all o/KXEG w/"acheh-elleh" ID. (Portzer, WA)
- 1010 MEXICO, Torreón, Coah., XEVK, call letter ID o/XEHLs wild sound effect 0232 6/19. (Baskind, MS)  
+ID w/call repeated every 3 to 4 minutes. MoR SS mx, fair to nil with fading, heavy interference 0610 10/4. (Landry, LA)  
+0054 1/6, multiple mentions of Torreón, "R. Felicidad" IDs by man. (Doug Everitt, OK)
- 1010 VENEZUELA, Ciudad Bolívar, YVQE, R. Bolívar, 0528 5/8 w/"R. Bolívar, la emisora que..." followed by TC and "R. Emisora (something), con las noticias..." Many doorbell sound effects. (Baskind, MS) (Sutatensa also has doorbells on this frequency - bp)
- 1015 EL SALVADOR, San Salvador, YSC, R. Internacional, in solidly w/laid-back Latin mx 0333 9/26. (Baskind, MS)  
+ "YSC, R. Internacional" ID noted weak but fairly clear 0500 10/29. (Nick Hall-Patch, BC)  
+11/28 0412, heard the song "Amore" and slogan ID. (Krueger, TX)  
+Fair w/slow Latin mx 0333 12/9, low voiced male announcer 0336 w/what sounded like brief mx update. 0403 very good w/SS edition of "Never on a Sunday." (Everitt, OK)  
+0027 12/25, good w/instrumental Christmas mx, into Latin vocal Christmas mx. 0653 12/25, excellent w/the SS version of "Blue Bayou." (Everitt, OK)
- 1020 COLOMBIA, Montería, HJZD, 0234 12/31, good w/SS talk, several mentions of "R. Panzenú," Latin mx, KDKA gone in auroral cx. (Everitt, OK)
- 1020 CUBA, San Cristóbal, CMAC, 0134 1/22, SS pops //1010, poor, fast flutter. (Landry, LA)
- 1020 VENEZUELA, La Asunción, YVRS, way o/KDKA; "Margarita" mentions, fast emotional SS talk (sporting event?) 0310 6/4. (Connolly, MA)  
+10/2 0530 fair to good w/US pop mx. 0535 "R. Margarita" ID and then singing ad by men. Looped south east. (Poda, OH)  
+10/16 0722, ID and then children singing. Good. (Poda, OH)  
+Fair o/mass of other Latins, Carupano ads 0557 11/4. (Connolly, MA)  
t +Probably the one w/Latin mx through KTNQ 0820 11/6. (Everitt, OK)  
+"Margarita" heard several times, ID by man fair to good 0102 11/28. (Bill Townshend, DC)  
+0556 3/11, o/under KDKA, "Margarita" jingle, festive mx. (Connolly, MA)  
+0519 5/5, good o/under KDKA; up tempo SS "party mx," then "Margarita" ID. (Connolly, MA)
- 1020 VENEZUELA, Maracaibo, YVMX, 0840 6/19 IDing as "R. Maracaibo" w/poor signals, R. Margarita not audible. (Baskind, MS)
- 1020 ? UNID, w/sport 10/29 0030 and 0250 w/match de fútbol in SS. "Bogotá" heard. (Beauregard, QU)  
+0007 11/27, GMT -5 TC, "...en la voz del (?)" o/Cuban. Suppose one of the Colombians. (Baskind, MS)  
+0327 1/4, someone bombing away w/SS sports event, announcer and crowd noises, no ID on half hour. Probably YVRS or HJZD. (Everitt, OK)
- 1020.4 ? UNID, carrier hetting KDKA 0355 3/15, and 0345 3/22, looping Central America. This one IDable in time. (Thomas, FL)

- 1021 PARAGUAY, Asunción, ZP14, R. Nanduti, poor to fair 8/7 0427-0440. Collected three IDs (one a quite nice clear one), a mention of Paraguay, and a reference to the "departamento filosofia de la Universidad Católica." Readable on peaks only, a total of 3 to 4 minutes. Listed on 1020 w/5 kw. (Hutton, GA)
- 1022 ? UNID, very weak something was here hetting 1020 when looping north-south 70/23 0812-0820. Believe OC was there from either KDKA or KTNQ-1020. (Gene Martin, CO)  
+Carrier and garbled audio looping towards northern South America noted here 0835 11/6. Someone on 1025 also... (Hall-Patch, BC)
- 1025 t COLOMBIA, Ibaqué, HJFT, Ecos del Combeima, 1102 10/30 w/man in SS, no mx heard. (Korinek, WA)  
+Weak w/fast moving tropical tunes 0420 12/2. (Gerardi, IL)  
+0820 4/16, good w/mx and SS chatter, //4785. (Portzer, WA)
- 1025 t COSTA RICA, San José, TIAC, R. Fides, probable, fair w/Latin mx 1013 11/6. (Everitt, OK)  
+0038, 0329 12/25, very good w/extended SS talk by a man, apparent radio play, 0329 MoR instrumental mx, SS announcements, then choral mx with sudden speed and pitch change, like wrong speed being corrected. (Doug Everitt, OK)
- 1025 ? UNID, 10/9 0610 fair but mostly poor. Latin mx. (Poda, OH)
- 1025.4 ? UNID, good signal w/low-modulated Latin mx w/heavy bass line, SS talk by man. TIAC and a couple of Colombians possible. 0305 12/9. (Everitt, OK)
- 1030 t ARGENTINA, Buenos Aires, LS10, R. del Plata, 0800 1/8, w/HJER was heard w/occasional mentions of Argentina, seemed all talk, heard here before but this very tentative. (Straus, NJ)  
+0840-0844 1/29, mentions of Buenos Aires and "La Plata." Mixed w/XEQR, all talk w/two male announcers. (Martin, CO)  
t +Possibly the one well atop XEQR w/nx by two men. Caught one mention of Argentina. No ID heard but format matches previous receptions. (Bruce Portzer, WA)
- 1030 COLOMBIA, Bucaramanga, HJDZ, R. Primavera, several mentions of location o/Pacífico, XEQR, and the Cuban 0119 10/9. Fair. (Baskind, MS)
- 1030 COLOMBIA, Cali, HJER, R. Pacífico, Latin mx and ID 0620 10/9. (Straus, NJ)  
+The ID was finally caught on this one 11/6 as it went into 9 consecutive minutes o/XEQR 0728-0737. Has been 7 or 8 years since I last caught the Pacifico ID. "RCN-Suceso" ID also noted on half hour. (Martin, CO)  
+0800 1/8, w/clear "R. Pacifico" ID and into instrumental mx. (Straus, NJ)
- 1030 CUBA, Pinar del Río, CMAJ, R. Guamá, 0027 10/2, SS talk and Dixieland mx //CMAC-1020. Fair. (Townshend, DC)  
+0140 1/22, //1010, "R. Guamá" ID. Interference from XEQR. (Landry, LA)
- 1030 MEXICO, México, D.F., XEQR, ID "R. Centro," SS rr mx(!) good w/some noise in WBZ null 9/4 0215. (Landry, LA)  
+0451 10/2, SS talk by man and woman, US songs of the 1940s vintage by Freddy Martin good o/CMAJ. (Townshend, DC)  
+10/2 0540 fair to good "R. Centro" ID by man several times, then song by man. (Poda, OH)  
+0425 12/2, ranchero mx w/many Christmas ads. (Gerardi, IL)  
+1020 2/5, good w/ranchero mx, "R. Centro" IDs. (Korinek, WA)
- 1030 PUERTO RICO, San Juan, WOSO, 0906-0915 3/5, 0906 - "You are listening to radio station WOSO," instrumental mx, SS vocals, 0915 - "More music on WOSO" announcements in EE. (Straus, NJ)
- 1030 ? UNID, 9/28 0030 very poor, Latin mx in WBZ and XEQR null. Also 10/2 0545 very poor to poor in XEQR null, man singing slow song in SS. Poor to fair for several seconds. "Ee-vay-kay" and "grande" heard, may have been call or slogan but at 0547 WBZ came on w/test. (Poda, OH)  
(Probably one of the Colombians - bp)
- 1035 HAITI, Cap Haitien, 4VEC, R. 4VEH, good w/organ mx, then EE talk, mentioning Evangelistic Voice of Haiti, then s/off 0030 8/28. (Connelly, MA)  
+0030 10/2 end of religious program in EE. S/off w/hymn "Amazing Grace," good. (Townshend, DC)

- +0000 EE religious talk, fair 10/5. (Straus, NJ)
  - +Strong w/organ mx 2314 11/4. (Connelly, MA)
  - +Very good w/EE religious program, fair modulation 1011 11/6. (Everitt, OK)
  - +Finally IDed w/mention of "R. 4VEH" by man in SS 1030 11/6. Fair, laid back piano mx previous to this. CFAX-1070 splatter not too big a problem for a change. (Hall-Patch, BC)
  - t +Carrier only 1013 11/9. Assume it would be Haiti. (Korinek, WA)
  - +Good w/hymns 2342 12/16. (Connelly, MA)
  - +12/20 heard "This is radio station 4VEH" in EE, followed by information about the station and a mention of where to send for verification cards. S/off(?) 2400, half hour earlier than listed in WRTH. (Krueger, TX)
  - +0001 1/6, ID, all frequencies, request for reception reports to Box 1, Cap Haitian, Haiti, West Indies. 0002 concluded EE broadcast, back at 6 AM, 0003 pulled the plug. (Straus, NJ)
  - +2347 1/6, very good to excellent w/EE religious talk, mx. (Everitt, OK)
  - +2337 1/25, religious mx, record ad 2347. (Krueger, TX)
  - +2305 2/10, excellent w/EE religious program interfering w/WBZ-1030. (Mark Connelly, MA)
  - +2317 3/2, fair signal w/drama in FF by a man. (Townshend, DC)
  - +1044 3/26, fair in SS. (Thomas, FL)
- 1037 COLOMBIA, Pasto, HJBN, La Voz del Galeras, no doubt about this one, something from Colombia, although I cannot extract an ID from the tape. Was putting a distinct het on nulled WHO-1040 11/13 at intervals 0704 - 0834. This was not there 24 hours before as I was checking out 1040 in the WHO silent period. Am very sure of the frequency, 3 khz below WHO. (Gene Martin, CO)
  - +IDs 11/13 0940 and 11/21 0324 that sounds like listed ID without the "P" in front. (Hutton, GA)
  - +Booming in w/TODELAR promos, 3 tones, and several mentions of Colombia 0913 12/10, then into boistrous tropical mx. Monitored for some time after that but no local IDs heard -- at least we now know what network this one's part of. Only problem is that there aren't any TODELAR stations listed on 1030 and 1040. Good signal at times on this one but suffered from deep fades and KTWO-1030 slop. (Portzer, WA)
  - +0730 12/28, "La Voz del Galeras" w/promos, ID. (Baskind, MS)
  - +(See also 1010 - ed)

1037 ? UNID, 0459 1/18, strong carrier within about 50 hz of 1037 (measurement impossible due to local splatter), bits of audio sounding like SS talk. Direction indicates mystery Colombian, many Latin splits noted as carriers. (Hall-Patch, BC)

1040 COLOMBIA, Barranquilla, HJAI, R. Tropical, Caracol ID 0528 7/16, fair signal u/bad interference. (Baskind, MS)
  - +0522 10/3 nx in SS by man w/frequent mentions of Bogotá and one mention of "R. Tropical." Fair. (Townshend, DC)

1040 COLOMBIA, Bogotá, HJCJ, R. Super" only Latin which managed to get its ID through the local image / Latin combination here 10/15 0929 w/WHO off. Am always amazed at amount of traffic here. (Martin, CO)
  - (Incidentally, the word "super" is pronounced the same as in English, despite the lack of an accent over the "u" - ed)
  - +0557 4/8, good w/"Super" ID, then Colombian accordion folk mx and vocals, atop slight growl. (Connelly, MA)

1040 CUBA, Isla de la Juventud, CMCY, R. Caribe, 0155 1/22, Cuban SS pops, male announcer, disco mx, WHO interference. (Landry, LA)
  - +0618 w/Latin mx and rare "R. Caribe" IDs, w/WHO testing. (Thomas, FL)

1040.3 ? UNID, station socking WHO with a mean het that made it impossible to listen to either one or to even begin to ID the Latin. Heard 1030 9/11. Any ideas? (Peterson, CA)
  - +Who is this putting a het on WHO most nights around 0500? Got some SS nx w/item from Bogotá 10/19 0510, but CFAX-1070 opened fire w/machine gun and down this went. (Hall-Patch, BC)

1040.4 ? UNID, 0159 1/3, 400 hz het on high side of WHO, no audio although WHO weaker than usual. 150 hz het noted 0100 1/6. (Everitt, OK)

1045 t PANAMA, Las Tablas, HOJ2, Ondas del Canajagua, assumed here w/female SS vocal 0105 6/4. (Connelly, MA)
  - t +0022 12/25, probable w/fair signal in WHO-1040, XEG-1050 slop, w/SS mx, and talk. (Everitt, OK)

- 1045 ? UNID, 0905 6/17 just a weak het here. (Korinek, CA)  
 +8/18 operatic SS female audible here for about 30 seconds 0355, then faded forever into the noise. (Thomas, FL) (Believe there's a Panamanian here - bp)  
 +Good signal, Latin mx, but no talk during period monitored. Colombia or Panamá? 1000 11/6. (Everitt, OK)
- 1050 COSTA RICA, San Isidro de Puntarenas, TIRN, R. Monumental, 0030 11/6 with un partido de fútbol, several IDs. The home team was losing badly. (Chris Baskind, MS)
- 1050 GUATEMALA, Huehuetenango, TGSL, La Voz de los Cuchumatanes, IDing 0131 11/6; (big band mx) "En Huehuetenango, la gran sabana(?)...la emisora conte..." and second man w/"..en Guatemala." This was followed by some sort of jingle, a GMT -6 TC, and fast Latin mx. Wonder if the "conte" implies some sort of Top Twenty-style countdown? (Baskind, MS)
- 1050 MEXICO, Mexicali, B.C., XED, 0804 1/10, in the clear w/many "XED, Mexicali" IDs, man in SS. (Korinek, WA)  
 +0658 3/7, man w/many ads, mentions of Mexicali, SS man w/ID. (Uerlings, OR)
- 1050 MEXICO, Monterrey, N.L., XEG, heard using toothbrush w/kite string antenna 0003 11/6. Ranchera mx, SS programming, "R. Melodia" IDs. Mixing w/TGSL. (Baskind, MS)  
 +0658 3/11, noted u/WHN, religious program giving "XEG Monterrey" ID, address given for P.O. box in St. Louis. (Connelly, MA)  
 +0541 5/6, ranting preacher in EE u/WHN. (Connelly, MA)
- 1052.6 a MEXICO, Monterrey, N.L., XEG, apparently the one causing a bad het against XED. Poor modulation and no positive ID 11/22 1144. (Pejza, CA)
- 1055 COLOMBIA, El Espinal, HJFZ, La Voz del Centro, 0858 6/17, man in SS with typical Latin mx fair to occasionally non-existent. (Korinek, CA)  
 +Over WNOE-1060 splatter 0553 7/10 w/Colombian dance mx, poor. (Chris Baskind, MS)  
 +Fair in WHN-1050 slop; male SS vocal noted 0535 11/23. (Connelly, MA)  
 +Fair to good w/rhythmic SS vocals and percussion 2343 12/16. (Mark Connelly, MA)  
 t +0451 1/8, probably the station w/fair carrier and occasional snatches of SS mx in heavy XEG-1050 slop. (Everitt, OK)  
 t +0857 1/12, possibly the source of weak carrier, Latin mx noted. (Randy Tomer, CA)
- 1059 v CUBA, Baracoa, CMKB, 0430 12/31, low modulated Latin mx, hetting WNOE-1060, direction and revolucionario mentioned suggest Cuba. Don't know if Encyclopedia has drifted down or this is the never-heard R. Revolución. (Thomas, FL)  
 +0457 1/8, throwing raucous het (700 hz) on low side of WNOE / XEEP-1060, carrier cut 0459:30. (Everitt, OK) (See also following tip - ed)
- 1060 CUBA, Baracoa, CMKB, 0555 8/2 w/chime IS u/CMBQ, some audio //other outlets. Poor. (Baskind, MS)  
 +Assumed here w/R. Revolución ID and mention of "provincias orientales" (eastern provinces), then festive Latin mx 2355 12/16. (Connelly, MA)
- 1060 CUBA, La Habana, CMBQ, R. Enciclopedia, 0552 8/2 w/"La Música Cubana" program ID, slow instrumental mx, usual format. Poor to fair. (Chris Baskind, MS)  
 +0440 10/2 SS talk by man fair over WNOE. (Townshend, DC)  
 +Good w/classical mx and ID by female 11/16 0030. (Hutton, GA)
- 1060 ? CUBA, loc unkn, CM??, over KYW and CJRP w/sedate Latin mx, then SS talk about Cuba. 0552 3/11. (Connelly, MA)
- 1060 MEXICO, México, D.F., XEEP, good "R. Educación" IDs and calls 0230 and 0335 9/27 o/WNOE and KKKQ w/mostly discussion programs all evening. (Bill Nittler, NE)
- 1060 VENEZUELA, San Juan de los Morros, YVLN, poor in noise w/man and woman in SS, "Guárico" mention, then mx 0007 8/31. (Connelly, MA)
- 1070 COLOMBIA, Barranquilla, HJAG, Emisora Atlántico, loud ID and rapid fade into high noise level 0654 6/26. (Baskind, MS)

- +Banging in like a local w/4-note electronic sound, "Emisora Atlántico" ID, Barranquilla ads, then SS pop mx 0248 10/1. (Connolly, MA)  
 +0528 10/2 SS talk by man; ID as "Emisora Atlántico" fair o/unid Latin. (Bill Townshend, DC)  
 +0514 5/5, good to dominant w/"R. Atlántico" ID, jingle w/4-note electronic sound. (Connolly, MA)
- 1070 COLOMBIA, Bogotá, HJCG, R. Santa Fé, poor to fair 11/16 0033 w/enthusiastic ID. Slightly off frequency by around 100 hz. (Hutton, GA)  
 + "R. Santa Fé" ID w/marching mx, then nx. Fair 0030 11/28. (Townshend, DC)
- 1070 VENEZUELA, Maracaibo, YVMA, "R. Zulia, la emisora con música dalona(?)" 0750 7/17. (Baskind, MS)  
 +Good o/rumble w/strident "R. Zulia" ID 0450 8/29. (Connolly, MA)  
 +Dominant after CBA s/off. "R. Zulia" ID jingle 0602 12/10. I was looking for KNX here (rarely heard), but just found the Venezuelan o/other Latins. (Connolly, MA)  
 +0649 1/13, good o/other Latins, "R. Zulia" ID. (Connolly, MA)
- 1070 ? UNID, 10/2 about 0600, SS fair looping south east, low het also heard, also looped south east. (Poda, OH) (Colombia? - bp)
- 1075 COSTA RICA, San José, TIFC, Faro del Caribe, 0205 6/12 w/poor to fair signal and Handel's "Water Music." And you thought teenagers have no taste for good mx...I listened to the whole concert, hi. (Baskind, MS)  
 +Fair w/classical sounding mx, SS talk 0245 11/7. (Everitt, OK)  
 +0325 12/25, very good to excellent w/EE religious programs, excellent modulation. 0336 excellent EE nx read by Australian accented announcer, then wx report. (Everitt, OK)
- 1075 ? UNID, 1000 5/7, fair carrier, no audio. (Thomas, FL)
- 1080 COLOMBIA, Montería, HJAW, La Voz de Montería, 0502 10/3 ID, mention of northern part of South America by man; Latin mx fair o/under WTIC. (Bill Townshend, DC) (See also 1091 - ed)
- 1080 HAITI, Port-au-Prince, 4WRD, R. Nationale, FF talk by man fair o/under HJAW w/pest WTIC "auroraed out" 0033 10/2. (Townshend, DC)
- 1080 VENEZUELA, Barcelona, YVQJ, atop weak WTIC groundwave; Christmas ads, "R. Barcelona" ID, then talk of Caracas and "R. Rumbos" network ID, listing numerous affiliates, 2216 12/16. (Connolly, MA)
- 1085 HONDURAS, San Pedro Sula, HROP, R. Aeropuerto, 0535 10/14 w/sticky Latin mx against KAAJ-1090. (Baskind, MS)  
 t +0020 12/25, suspected w/Latin vocals w/heavy bass and drums, well modulated SS talk, no ID or slogan. (Everitt, OK)
- 1090 COLOMBIA, Cúcuta, HJBC, 2256 1/20, poor to fair o/under unusually weak WBAL; SS talk, ID first time sounded like "La Voz de Bogotá," but on replay got "La Voz de Cúcuta" out of it. (Connolly, MA)  
 +Caracol outlet o/under WBAL, 0549 3/11, reverberated "Caracol" ID, shrill accordion mx. (Connolly, MA)
- 1090 COLOMBIA, Manizales, HJIA, Ondas del Nevado, excellent w/Todelar chimes and ID 0830 11/27. (Hutton, GA)
- 1090 GUATEMALA, Guatemala, TGZ, w/"Emisora Unidas de Guatemala" ID 0721 7/17, then taped "Romantica" promo, variants of which were played between each song. Had been unid for several weeks, heard often when KAAJ off the air. Few IDs. (Baskind, MS)  
 +0030, 0410 12/25, "Romantica y fabulosa en Guatemala," and "R. Fabulosa" heard at 0410. (Krueger, TX)
- 1090 MEXICO, Rosarito Beach, B.C., XEPRS, religious program in EE, Pilgrim's Rest, as for Bible Cassette tapes, call in EE, slogan "1090 express," extremely weak w/unid "grizzly" interference. KAAJ off 9/25 0125. (Landry, LA)
- 1090 PANAMA, Colón, HOL82, R. Libertad, w/ID, address twice, "hora oficial" TC 0759 7/17. KAAJ off. (Baskind, MS)
- 1090 VENEZUELA, Caracas, IVSZ, Exitos Mil Noventa, 11/5 2357 w/good ID. Fairly often dominant here. (Hutton, GA)

- 1090 ? UNID, SS talk by man good 0608 10/2. (Townshend, DC)  
 +0116 12/28, rustic Latin mx, w/accordion, suspect Colombia, fair under WBAL. (Townshend, DC)
- 1091 COLOMBIA, Montería, HJAW, La Voz de Montería, jamming WBAL, romantic Latin mx up well 0054 8/29. (Connelly, MA)  
 t +Putting het on KAAJ-1090. Colombian mx 0910 9/9. No ID heard, assumed off frequency. (Baskind, MS) (See also 1080 - ed)
- 1100 ANTIGUA, St. John's, ZDK, bombing in w/oppressively loud signal; steel drum mx, alone on channel 0102 6/4. (Connelly, MA)  
 +Good w/soul mx 0140 6/9. (Connelly, MA)  
 +Poor w/religious PSA or plug 0422 7/13. Has been in most evenings during the summer. (Baskind, MS)  
 +O/WWE w/live calypso vocal mx, EE and SS songs. Caribbean EE announcer 0404 7/29. (Connelly, MA)  
 +Fair w/reggae mx 0053 8/29. (Connelly, MA)  
 +Alone w/woman in Caribbean EE mentioning Antigua; tropical mx followed 2307 9/16 (LSS). Cx were "medium skip to normal," not auroral, so an hour later WWE was atop. (Connelly, MA)  
 +Fair to good w/soul mx, WWE nulled 0053 9/27. (Connelly, MA)  
 +Good in WWE null w/island mx, local mx, female announcer 0020 10/6. (Straus, NJ)  
 +S/off 0204 10/16. Owners (Grenville Radio, if I remember correctly), power, NA. No GSQ. How many ways can you pronounce "Antigua?" (Chris Baskind, MS)  
 +Atop SS Latin; "ZDK" jingle, then Caribbean EE talk and mx 2359 10/22. (Mark Connelly, MA)  
 +Loud w/calypso mx and DJ who talked o/records 2153 11/4. (Connelly, MA)  
 +11/17 0200 BBC News relay, weak. (McGonagle, Ireland)  
 +Good to totally dominant w/reggae mx, then "ZDK" IDs 2210 12/16. (Mark Connelly, MA)  
 +2239 12/22, suspected, alone on channel during great Caribbean opening, man in Caribbean EE talking about the Guyana Massacre. (Connelly, MA)  
 +0300 12/23, religious program w/Christmas songs, call given, fair over and under WWE. (Townshend, DC)  
 +2232 1/10, excellent, w/Islands mx. (Connelly, MA)  
 +0415 2/3, good w/fundamentalist preacher. (Connelly, MA)  
 +0059 4/8, at fair strength, alone on channel, ID as "This is the new "ZDK." (From your friend and mine in MA)
- 1100 COLOMBIA, Barranquilla, HJAT, R. Reloj, w/ID u/Cuban 1030 11/8. (Chris Baskind, MS)
- 1100 t COLOMBIA, Bogotá, HJCN, 0152 1/4, probably the one briefly o/others w/SE announcements, "música..R. Reloj." Possibly HJAT. (Everitt, OK)
- 1100 CUBA, Cienfuegos, CMHU, "R. Ciudad del...(Mar)" ID, mention of "la provincia," MoR Latin mx 0359:50 10/16. Had been in w/no IDs for half an hour. (Baskind, MS)
- 1100 ECUADOR, Guayaquil, HCFW2, R. Melodia, good ID o/HJAT 0902 4/30. Announcer babbled a bit and the signal faded. Thought this was a dead frequency. (Chris Baskind, MS)
- 1100 ? UNID, "Las veinticinco minutos en R. Socros" or similar heard 0725 7/17. Wouldn't believe this is a new R. Surcos relay, as they're off at this time. (Baskind, MS)
- 1101 DOMINICAN REPUBLIC, Nagua, HIPS, R. Nagua, poor w/ID 2300 11/17. (Chuck Hutton, GA)
- 1110 ARGENTINA, Tucumán, LV7, R. Tucumán, heard w/3-part 30 second station promo 0320 7/14. Seemed to be composed of 3 SIDs, each containing a couple of Tucumán mentions, separated by comments by a man. Final jingle ended with a slow "Ra-dio Tu-cu-mán" and was followed by an instant fade u/HRLP. New country. (Baskind, MS)
- 1110 ? COLOMBIA, loc unkn, HJ??, many ads for firms in Montería and Magangue, 0100 6/4. (Connelly, MA)
- 1110 ? CUBA, loc unkn, CM??, R. Angulo outlet very good 0430 11/17. Excellent 1010 11/27 w/chime IS to 1015 s/on. Complete ID after every 5 IS'es. (Chuck Hutton, GA)

- +First heard //1120 0136 11/26. Retuned same day 0600 to IDs of "Despues de la medianoche" program; also repeated plugs of ICRs anniversary. Note 1120 is indeed still active. This new transmitter, though, is seemingly more powerful and will probably be better heard. (Baskind, MS)
- +11/26 w/WBT off, very potent, lively SS w/some EE disco 0645-0700, ID 0645 as "Radio Angulo." Full s/off 0702 mentioning "Instituto Cubano de Radiotelevisión (or radiodifusion - bp). (Cartwright, PA)
- +0746 4/15, good w/EE vocal, rest in SS. (Thomas, FL)
- +0636 5/6, fair w/"R. Angulo" ID, mentioned Cuba, followed by festive SS mx. (Connelly, MA)
- 1110 HONDURAS, El Progreso, HRPL, R. Progreso, w/armchair copy 0412 5/20. Romantic mx. (Baskind, MS)
- +0430 1/22, 2 slogan IDs, mx. (Krueger, TX)
- 1110 MEXICO, Río Bravo, Tams., XEQQ, 10/8 1740, 1 kw daytimer seemed to be relaying XEFD-590. Did not use own call. This was on a Sunday. Very weak. (Worst, TX)
- +2 complete IDs giving calls, "R. Juventud" slogans, and power of 1000 watts. Apparent s/off w/anthem o/KFAB 0305 10/12. (Nittler, NE)
- 1110 VENEZUELA, Carúpano, YVQT, noted w/"R. Carúpano" ID, talk mixed w/instrumental mx, then male SS vocal; totally overriding WBT 0328 6/4. (Mark Connelly, MA)
- +0001-0005 6/4 IDed as "R. Rumbos," mention of Venezuela, talk in SS by a man. S/off w/NA. Good signal, heard after WBT s/off. (Townshend, DC)
- +Loud w/fast SS talk, Carúpano mentions 0002 8/31. (Connelly, MA)
- +Alone on channel at good level w/authentic (non-Americanized) Latin vocals, "R. Carúpano Musical" ID 0128 10/2. (Connelly, MA)
- +Excellent, dominant o/other SS Latins; Carúpano mentioned and SS talk 2316 11/4. (Connelly, MA)
- +Loud w/"Carúpano" ID o/others 2206 12/16. (Connelly, MA)
- +2230 1/10, blasting in, alone on channel, w/network ID - "Rumbos, la emisora de Venezuela," followed by drama. (Connelly, MA)
- +2250 1/10, much screaming by man in SS, "R. Carúpano" ID, frequency given 2256, also short-wave frequency. (Straus, NJ)
- +1030 2/11, w/"Carúpano" IDs, man talking, good w/WBT off. (Straus, NJ)
- +0307 3/5, ranchero-type mx w/male vocal, fighting w/WBT for dominance. (Townshend, DC)
- 1110 VENEZUELA, Valencia, YVRX, R. Mía, excellent 11/5 0515 w/WBT off. Apparently they have resumed all-night operation. (Hutton, GA)
- 1120 COLOMBIA, Tunja, HJKQ, R. Tunja, blasting everyone 0401 11/9 w/nx about Colombia, CARACOL mentions, and horrible mike feedback. Sounded like the studio speakers were running even as the announcer talked. Professional! (Baskind, MS)
- 1120 CUBA, Holguín, CMDL, R. Angulo, making a rare appearance without KMOX interference 0958 8/7, fair signal. (Baskind, MS)
- +//1110 11/26 2333, poor u/Antillas and Ondas del Lagos. (Hutton, GA)
- 1120 DOMINICAN REPUBLIC, Santo Domingo, HICN, R. Antillas, seemingly signing off w/taped and live announcements, mention of s/on at "8:00 AM," which would be 1200. This at 0200 11/6. (Baskind, MS)
- +2250 12/27, w/ads, announcements, many Santo Domingo mentions, pre KMOX fade-in. (Straus, NJ)
- 1120 VENEZUELA, Maracaibo, YVMF, Ondas del Lago, Latin mx and SS talk by man //YVQT-1110 fair u/KMOX 0537 11/27. (Townshend, DC)
- +0100 1/12, mostly Latin vocals, fading, but strong at times w/0100 ID. (Bob Curtis, VT)
- 1124.6 COSTA RICA, San José, TISRHB, R. Ellas, is heard here. (Arctic, 7/14)
- +Finally IDed 0500 10/3 w/garbled call letters (definitely "T-I...") and mention of "Amigo" and two frequencies. They say they're on 1120. Nil to fairish in bad CKWX-1130 and KPNW-1120 slop. (Hall-Patch, BC)
- +Call letters and AM and FM frequencies given, then apparent s/off 0505 10/12. (Bill Nittler, NE)
- +Very good w/long open carrier, some low-modulated SS talk 0517 11/6. This has been fairly steady on 1124.6 since last winter. (Everitt, OK)
- +Surely the good to nil carrier w/occasional audio 0550 11/14. No talk heard. Lots of 1120 and 1130 slop. (Portzer / Bytheway, WA)

- +IDs on the hour as Onda Once Veinte. (SWNS 11/78)
- +Excellent w/SS mx 0057 12/8, song had lots of choral stuff like MoR arrangement; again w/very good signal, SS pop vocals 0244 12/9. Definitely one of the more consistent Latins. Costa Rican low-enders (usually very good) not heard much recently due to AC mains trouble in lower part of band, looping exactly Latin America. (Everitt, OK)
- +Noted during brief stay in this part of band w/usual very good to excellent signal and SS pops 0305 12/14. Also noted on car radio as het during brief errand around 0400 same night. Car radio hets also noted on several other Latin splits, including 725 khz. (Everitt, OK)
- +0320 12/25, outstanding signal w/SS pops, soft EE easy listening mx, also 0312 12/29, w/soft instrumental rock. (Everitt, OK)
- +0340 1/3, w/US pops, SS pops, measured 1124.64 khz. (Straus, NJ)
- +0632 1/2, US pops, audio quality improving lately on this, seems to have settled into EE and SS popular rock format. (Everitt, OK)
- +0330 3/17, in briefly and poorly w/Bee Gees song. (Thomas, FL)
- +(See also 1125 - ed)

- 1124.6 ? UNID, open carrier and het in loud and clear 0756 6/15. Probably Costa Rica? (Korinek, CA)
- 1125 a COSTA RICA, San José, TISRHB, R. Ellas, Neil Diamond vocal poor to fair 0151 7/9. (Connelly, MA)
- +Is now calling itself "Amigo." On the hour they also announce call letters plus AM and FM frequencies. R. Ellas ID has been dropped. Also gone are the hourly R. Super IDs reported last winter by Hutton. First noted 8/30 0130. (Stanbury, ON)
  - +Playing mid-eastern mx 0212 10/16. Beware...Libya will be here when the new ITU allocations take effect. This is not the first time I've heard "Amigos" running Arabic. (Baskind, MS)
  - +0232 12/25, "onda once veinte," ID report in December DXWW helped. (Joe Krueger, TX)
  - +0608 2/9, blasting in w/spot for "carnival de Panamá," SS vocals, and announcements. (Bytheway, WA)
  - +0621-0709 2/9, good but fady w/SS MoR vocals, (also EE rock hits - Bee Gees, Fleetwood Mac, etc.) IDed by Bytheway before I tuned in. (Bruce Portzer, WA)
- t +0545 3/11, "Disco Inferno" song heard briefly in the clear, then talk, chewed up by WNEW-1130. (Connelly, MA) (See also 1124.6 - ed)
- 1130 COLOMBIA, Barranquilla, HJAC, Emisora Río Mar, 0458 10/3 ID mention of Barranquilla by man, fair to good w/pest WNEW "aurora-ed out." (Bill Townshend, DC)
- 1130 COLOMBIA, Bogotá, HJCO, Emisoras Eldorado, 2353 1/3, probably the one here briefly atop WNEW w/many Bogotá mentions. Midband Latins bulldozing domestics, but I didn't have time to "milk" the opening. (Mark Connelly, MA)
- 1130 CUBA, Santa Clara, CMHA, 0204 12/30, SS nx by man, no WNEW, fair o/under HJAC. (Townshend, DC)
- 1135 t GUATEMALA, Retalhuleu, TGVR, La Voz de la Costa Sur, most likely the one w/fair signal, SS pops, and Latin mx mixing w/TVI 0350 12/9. (Everitt, OK)
- t +Weak but very readable due to lack of slop 1005 12/18 w/Latin mx, well modulated SS talk w/reverberation. This is in quite often, but still heard not even heard country mentioned. (Everitt, OK)
- +0450 12/28, "La Voz de la Costa Sur," mx. (Krueger, TX)
  - +0550 1/10, w/waltz beat Latin mx, SS vocals. "La Voz de la Costa Sur" ID at 0555, gone 0600, s/off? (Thomas, FL)
- 1135 ? UNID, 2 Latin stations fighting vigorously in heavy 3.5 hz SAH, both w/Latin mx 0348 12/25, SS announcements 0400 w/no ID or slogans. One is surely TGVR, uncertain about the other. HCSK7 was once listed here. (Doug Everitt, OK)
- 1140 COLOMBIA, Cali, HJEV, La Voz del Valle, 0609 6/19 fair w/ID right as I tuned in...how nice of them. (Baskind, MS)
- 1140 COLOMBIA, Cartagena, HJKO, 0602 12/10, w/full ID and call letters, "La Voz de la Victoria," then anthem and off. (Feltman, PA)
- 1140 CUBA, Media Luna, CM??, R. Bayamo, blasting in 0445 11/4. Way o/the pack w/good ID, talk about Santiago's local affairs. (Baskind, MS)

- 1140 EL SALVADOR, San Salvador, YST, "...paracer R. El Mundo" by female 0223 5/26 fair w/some XEMR interference. (Baskind, MS)
- 1140 MEXICO, Monterrey, N.L., XEMR, 0830 6/15 poor u/KRAK w/SS talk and ranchera mx. (Korinek, CA)  
+SID, rapid fire male announcer, pop SS mx, signal fair w/fading, splash from WJBO-1150 9/27 0203. (Landry, LA)  
t +10/2 0500 poor, light mx looping south or south west in WRVA null. Also 10/2 0630 SS good w/rock mx. (Poda, OH)
- 1142.2 ? CUBA, loc unkn, CM??, 1041 3/26, jammer, strong. (Thomas, FL)  
+Jammer at high level 0312 7/16. (Baskind, MS)
- 1145 ? HAITI, loc unkn, 4V??, 3/26, presumed the source of weak carrier looping Hispaniola. (Thomas, FL)
- 1150 DOMINICAN REPUBLIC, Santo Domingo, HIAS, Onda Musical, 2300-2315 12/29, w/many Dominican mentions, through domestic jumble, poor. (Straus, NJ)
- 1150 GUATEMALA, Guatemala, TGPR, "En Guatemala...R. Reloj" o/the pack 0325 9/26. Ad for Banco de Guatemala and GMT -6 TC followed. Another "happy accident" log; was fishing for YSCF-1155. (Baskind, MS)
- 1150 MEXICO, México, D.F., XEJP, R. Variedades, weak to fair w/2YX-1116 partially nulled w/SS mx and announcements 0530-0645 11/20 each night. (Allchin, New Zealand)
- 1150 VENEZUELA, Punto Fijo, YVMM, Ondas del Caribe, way up on top (no domestics heard) w/SID 11/7 0537. (Hutton, GA)  
+Fair through domestics w/SID 0547 11/27 and lively SS songs. (Brian Cartwright, PA)  
t +0151 12/30, man talking in SS, mention of Maiquetia (Caracas airport), fair o/under WDEL. (Townshend, DC)
- 1155 EL SALVADOR, San Miguel, YSCF, Ondas Orientales, 0525 9/17 w/worn-out US pop and soul singles, hip-sounding DJ in SS. (Baskind, MS)  
+Very good w/SS easy listening pops 0239 12/9. (Everitt, OK)  
+Very good, w/Latin disco rock 0541 12/23, 0546 SS announcements w/reverberation, including a couple of "Feliz navidades," more disco. I believe their format is getting a little more varied now. Also 0408 12/25, w/SS announcements, mention of "R. Trio" or similar. Have heard this slogan before, believe it's used in addition to "Ondas Orientales," as the latter was heard 0416. (Everitt, OK) (See also below - ed)
- 1155.1 t EL SALVADOR, San Miguel, YSCF, carrier 10/21 0538 but no audio in KSL-1160 splatter. Looped to Central America. (Hall-Patch, BC)  
+This is El Salvador. (Hutton, GA)
- 1160 COLOMBIA, Barranquilla, HJBL, R. Aeropuerto noted w/clear ID, then mentions of Barranquilla; briefly o/het 0331 6/4. (Connelly, MA)  
+In well w/"R. Aeropuerto" ID 0357 11/2. (L. Morby, NY)  
+0055 12/16, "Cadena Radial Libertad." (Beauregard, QU)  
+0115 12/28, Latin mx, ID as above, no WJJD. (Townshend, DC)  
+2345 1/5, up to good peaks w/Latin mx, then "R. Aeropuerto" ID by female. (Connelly, MA)
- 1160 COLOMBIA, Montería, HJAZ, fair 11/26 0720 and 0920 IDing as "La Voz de Sinú" - listed as Emisora Sinú. All alone w/Aeropuerto and Radiolandia off the air. (Hutton, GA)
- 1160 CUBA, Artemisa, CMCE, R. Artemisa, practically alone 1123 11/26 w/ID. (Chuck Hutton, GA)
- 1160 DOMINICAN REPUBLIC, Santiago, HIBG, Radiolandia, SS song by man, mention of Santiago in SS talk by man. Fair to good w/WJJD wiped out 0128-0132 9/28. (Townshend, DC)  
+0600 4/8, loud w/Latin mx. Latin interference, "Radiolandia" ID. (Mark Connelly, MA)
- 1160 ? MEXICO, unid, XE??, "R. Felicidad en (?), México..." heard 0700 5/7. Who is this? (Baskind, MS)
- 1163 HONDURAS, El Paraíso, HRGF, R. Paraíso, 1026 6/12 w/semi ranchera mx,

- GMT -6 TCs, and a tape which stuck. Fair this and most mornings after LSR kills the interference. (Baskind, MS)  
 +1035 3/26, almost good w/frequent Paraiso IDs and HRGF ID. Talk by man in SS followed. (Thomas, FL) (See below - ed)
- 1163.5 HONDURAS, El Paraiso, HRGF, R. Paraiso, plastering C.R.L.-1165 0201 11/5 w/strongest signal ever, full ID, station promos, up tempo Latin mx. Later heard running romantica. (Baskind, MS)
- 1165 ANTIGUA, St. John's, Caribbean R. Lighthouse, loud w/piano mx 0151 7/9. (Mark Connelly, MA)  
 +0120 7/10 w/EE religion, imposing signal in the clear. (Baskind, MS)  
 +Good w/radio drama in EE 0124 7/30. (Connelly, MA)  
 +Gospel song by man in EE, talk by man w/Caribbean accent 0037 9/30 fair to good w/slight WWVA-1170 splash. (Townshend, DC)  
 +At local level w/religious programs, only slight interference 0201 10/1. (Chris Baskind, MS)  
 t +10/9 0112 fair, fades to poor, religious singing. 0116 man gave "P.O. Box 1605..." (Poda, OH)  
 +2300 10/17 w/SID in heavily accented EE. Good but bad WWVA-1170 slop. (Morby, NY)  
 +10/22 0212 poor, man talking, then choral singing, looped south east, WWVA-1170 splatter. (Poda, OH)  
 +Good w/EE discussion 0027 10/23. (Connelly, MA)  
 +Fair s/on 11/20 0957 w/full ID and hymns 1000. Rapid fade out 1010. (Allchin, New Zealand)  
 +Very good in combined TVI and wide KVOO-1170 splatter, making audio difficult, but readable w/EE talk on apparently religious subject 0105 12/8. (Everitt, OK)  
 +Good w/woman in EE, religious program 2227 12/16. (Connelly, MA)  
 +0143 12/28, w/music box version of Christmas carols, fair to good. (Bill Townshend, DC)  
 +2339 1/5, fair w/radio drama, o/under TVI, WHUE-1150 slop. (Connelly, MA)  
 +2353 1/6, EE and SS religious talk, possibly language lesson. (Doug Everitt, OK)  
 +2256 1/13, very good w/EE religion. (Connelly, MA)
- 1165 a? UNID, something in there w/fair signal but fadey w/what sounded like a R. Netherlands news report 0009 12/15. Radio Lighthouse? (Lee, CT) (Sounds like it - bp)
- 1170 COLOMBIA, Cartagena, HJNW, La Voz de Her6ica, 0433 5/6 w/slogan, call, and location, alone on frequency. (Baskind, MS)  
 +Noted 0937 11/27 before WRTH-listed 1000 s/on. (Hutton, GA)  
 +Way atop WWVA 0259 12/20. (Stanbury, ON)
- 1170 ? COLOMBIA, loc unkn, HJ??, "RCN" ID 0720 11/26. Nothing listed for RCN here. One local ID which I can't decipher. (Hutton, GA)  
 +HJJE, Tul6a listed as RCN in '79 WRTH - ed
- 1170 HAITI, Port-au-Prince, 4VRS, R. Soleil is new, heard 0208 6/19 w/French radio play, then again 0957 w/IS: man repeats "R. Soleil" and a chord of mx is played each time. Quite distinctive..nice signal. (Baskind, MS)  
 +Is new, heard in Miami. Estimated at 1 to 5 kw, French, EE, and SS. Pop mx 0130, religious choral 0230, classical mx 0300. (Arctic, 6/2/78)  
 +0137 10/2, song in French by female after French talk by man, fair with WWVA auroraed out. (Townshend, DC)  
 +French rr song good over WWVA 0040 11/16. (Townshend, DC)  
 t +0159 3/31, suspected as the French station here during semi-auroral cx. Before a definite ID could be heard the station faded into a mishmash of other Latin carriers. (Connelly, MA)
- 1170 MEXICO, Arcelia, Gro., XEQV, 1017 12/2 w/more of a tropical style of mx than usual ranchoero, male announcer u/KVOO. (Gerardi, IL) (Latest info shows this new station to have 50 kw, DA-2 - ed)
- 1170.2 ? UNID, 0310 1/3, good sized 200 hz het on high side of KVOO, snatches of SS talk, low-voiced male. (Everitt, OK)
- 1176 COSTA RICA, Lim6n, TIQ, R. Casino, still very much present on this frequency; morning scheduled SS and pops quite audible 1057 8/10. (Chris Baskind, MS)  
 +Good w/low-modulated SS talk 0600 11/6. Suddenly disappeared 0601 and

- not there 0630 (s/off?). (Everitt, OK) (Likely, they usually s/off somewhere around 0600 - bp)
- +Good w/Latin mx and SS talk by a man 0252 12/8. Carriers 1224.4, 1345, and 1365 also. (Everitt, OK)
  - +0048 12/25, w/fast SS talk, possibly nx, mentions of Costa Rica, and Somoza. (Everitt, OK)
  - +0430 1/3, EE announcement "Hello everybody, it's nice to be with you," SS vocals, measured 1175-83. (Straus, NJ)
  - +0515 1/31, MoR Latin pops, fair. (Straus, NJ)
  - +1030 3/26, good w/nx by man in SS. (Thomas, FL)
  - +0156 3/31, to good peaks w/SS female vocal version of US popular song. (Mark Connelly, MA)
- 1180 COLOMBIA, Manizales, HJFX, La Voz del Ruiz, carrying sports 0427 7/10. It seems Panamá was losing to Cuba right up until the last few minutes.. no clear IDs during the game...finally caught a Caracol mention during a tape replay next morning. (Baskind, MS)
- 1180 CUBA, Isla de los Pinos, CMBN, R. Reloj, 10/2 about 0530, fair, man talking, time tones. (Poda, OH)
- +R. Reloj Nacional programming fair to very poor w/fading, fluttering, interference mainly from WHAM, 11/10 0745. (Landry, LA)
  - +1019 2/18, SS talk on and on, fair in the crud, w/"R. Reloj" IDs and TC. (Bruce Portzer, WA)
  - +0711 2/19, w/usual program o/under WHAM. (Connelly, MA)
  - +0815 4/16, good w/"R. Reloj" IDs and usual boring monologue. (Portzer, WA)
- 1180 ? CUBA, loc unkn, CM??, was surprised to find 3 new stations on 1180, 1190, and 1200, all // w/light instrumental mx 1015 8/12. This (1180) was the strongest, though having a pitched battle over frequency domination w/R. Reloj's monster signal; the others were laden w/noise. 1030 ID yielded nothing. Remonitored 1180 again 8/17; caught a "R. Santa Cruz" ID 1028 w/mention of station being a provincial outlet. Will watch further. (Baskind, MS)
- +Fair to good 1130-1142 11/26, generally o/R. Reloj. ID 1130 sounds more like "R. Santa Cruz" than any other listed Cuban - phonetically it sounds like "san-ta-too." //1190 and 1200. (Hutton, GA)
  - +Latest info shows this to be R. Sancti Spiritus, CMHT move from 1490, //1190 and 1200, subject to confirmation - ed.
- 1180 DOMINICAN REPUBLIC, Santo Domingo, HIBE, R. Mil, w/ID 0000 10/16. Fighting at least one Cuban. (Baskind, MS)
- 1180 GUATEMALA, Guatemala, TGT, R. Sonora, 1030 12/2, typical tropical format, ID. (Gerardi, IL)
- 1180 MEXICO, México, D.F., XEFR, 6/13 0810-0825 fair w/EE rock mx and some ranchita mx. (Korinek, CA)
- +With ID 0521 11/15. (Baskind, MS)
  - +0655 2/11, w/easy listening type mx, various IDs. (Miller, MA) (Listed 250 watts this hour, very unusual - es)
- 1180 VENEZUELA, Maturín, YVOR, atop w/man and woman in SS, talk mentioned socialism, then "R. Maturín" ID 2355 8/30. (Connelly, MA)
- 1180 ? UNID, noted 7/27 0715 w/cw mx, looped to Latin America. Noted again 8/14 w/severe KEZY-1190 interference. My 875 khz mystery hasn't been heard since 7/19 and this guy on 1180 sounds similar. (Bixby, CA)
- 1190 COLOMBIA, Barranquilla, HJCT, La Voz de la Costa in w/nary a sign of Cordillera 0406 5/2. ID and easy listening mx 0409. (Baskind, MS)
- +Briefly atop pack of Latins; Barranquilla mentions, then "La Voz de la Costa" ID 0447 8/29. (Connelly, MA)
  - +Strong 11/14 w/ID 2259 and various Barranquilla ads 2312-2315. (Stanbury, ON)
- 1190 CUBA, Ciego de Avila, CMJP, 1010 6/14 w/nx by man //1430. (Baskind, MS)
- +Discussion w/man and woman frequently referring to Cuba. MoR SS mx poor w/fading, fluttering, interference from several stations 11/11 0020. (Landry, LA)
  - +0515 2/19, fair w/"R. Reloj" and nx. //1180 not as good. (Straus, NJ)
- 1190 ? CUBA, loc unkn, CM??, 8/12 //1180. See 1180 for details. (Baskind, MS)

+11/26 //1180. (Hutton, GA) (Latest info shows this to be R. Sancti Spiritus in Yaguajuay, //1180 - ed)

- 1190 MEXICO, Ciudad Juárez, Chih., XEPZ, "R. Norteña" completely on top 11/1 0115. (Nittler, NE)
- 1190 MEXICO, Guadalajara, Jal., XEWK, rapid fire announcement by 2 men, ID: "Ehkees eh doble-veh," program about Managua. Same programming as XEW-900. Good to poor w/fading, fluttering, mixing w/subdued WOWO 11/22 0436. (Landry, LA)
- 1190 ? UNID, song in SS by male; SS talk by man 0008 9/30 excellent, wiping out WOWO 0015. Ended abruptly (possible sunset power reduction) 0017. Noted on several occasions with //programs on 1180 o/under VOA. (Bill Townshend, DC)
- +10/2 about 0530 poor to fair Latin mx, looped south. (Poda, OH)
- +Ranchero mx, male announcer, a lot of fast talk but no ID given 1043 12/2. (Rob Gerardi, IL)
- 1195.7 ? UNID, 0025 1/6, w/snatches of SS talk, looped south south west. (Elliot Straus, NJ)
- 1196 ? UNID, carrier 1114 11/6. Perhaps Honduras off frequency? (Peterson, CA)
- 1200 COLOMBIA, Cali, HJNF, lively Latin mx 0533 10/7, TC and Colombia mentions 0538, then several "R. Super" IDs. (Bytheway, WA)
- + "R. Super" ID and mention of Cali. Other Latins there too. 0656 10/23 in WOAI silent period. (Martin, CO)
- 1200 COLOMBIA, Riohacha, HJZW, booming in w/"Almirante" ID on car radio, Route 28 at Bass River Bridge, S. Yarmouth, MA. 2346 8/27. (Mark Connelly, MA)
- +0116 9/30, SS talk by man, then "Take Me Out to the Ball Game." (Bill Townshend, DC)
- +0111-0158 12/28, rumba type mx, ID as "R. Almirante" o/under CMKL. (Bill Townshend, DC)
- +0139 3/31, excellent, totally dominating w/festive Latin mx, then "R. Almirante" ID. (Connelly, MA)
- 1200 CUBA, Santiago de Cuba, CMKL, 2340 1/27, Latin pops, mention of Santiago, mixing w/Tiempo and Almirante. (Straus, NJ)
- 1200 ? CUBA, loc unkn, CM??, 8/12, see 1180 for details. (Baskind, MS)
- +11/26, //1180, all stations about the same strength. (Hutton, GA)
- +0140 12/28, //1180, 1190. (Townshend, DC) (Latest info shows this to be R. Sancti Spiritus in Placetis, //1180 - ed)
- 1200 GUATEMALA, Jutiapa, TGRJ, R. Jutiapa, w/ID and marimba mx o/WOAI OC 0615 5/1. Had SID but TT wiped out all but a sung "Jutiapa..." (Baskind, MS)
- 1200 VENEZUELA, Caracas, YVOZ, R. Tiempo, good w/SS talk, spoken and sung IDs 0456 8/29. (Connelly, MA)
- +Very good w/slow paced Latin mx, some SAH, and occasional second station surfacing w/SS talk 0810 11/6. (Everitt, OK)
- +Not as strong as usual when other Latins are in, female announcer with romantic type songs 1038 12/2. (Gerardi, IL)
- +Fair w/WOAI null 0735 11/22 w/"R. Tiempo" ID and some SS mx. (Tomer, CA)
- +Superloud w/"R. Tiempo" ID and Latin mx 0550 11/24. (Connelly, MA)
- +Dominant w/Latin vocals, SS announcements w/Venezuela mentions 1015 12/18; 1023 out of Latin vocal w/good "R. Tiempo" ID, more announcements, faster Latin mx, then yet more "R. Tiempo" mentions. (Everitt, OK)
- +Weak w/several "R. Tiempo" IDs o/other SS station. (Lee, CT)
- +0848 1/8, fair w/soft romantica mx, little co-channel interference, "R. Tiempo" mentioned. (Everitt, OK)
- +0921 1/29, fair w/"R. Tiempo" ID. (Portzer, WA)
- 1201 HAITI, Port-au-Prince, 4VLS, R. Progrés, excellent at s/off 0506 11/17. Short NA followed. (Hutton, GA) (See also 1203, 1205, and 1206 - ed)
- 1201.8 ? UNID, muddy audio on Latin mx in slop 0028 10/23. (Connelly, MA)
- 1202 ? UNID, Latin suspected here, hetting usual 1200 Latin graveyard 2358 10/12. (Connelly, MA)

- 1202.5 ? CUBA, loc unkn, CM??, assumed to be the location of the station w/male and female talk 0338 10/22, into nondescript Latin and US instrumental mx 0341, possible talk 0354. Still on 0655 and other times w/background mx and/or SS dialog. Good on peaks but subject to deep fades. No references to Cuba heard, but programming was so dull and uninteresting I figure the only thing it could be was a Cuban, hi. (Portzer, WA)
- 1203 t HAITI, Port-au-Prince, 4VLS, R. Progrés, French announcer 0451-0523 10/15. Mx portions lots of drums, miscellaneous beating, vocal wailing, African flavor. Must be the same that Connely found on 1206 recent DXWW. Separated pretty easily from WOAI-1200 at times so must have been stronger than it seemed. Het w/1205, OC presumed R. Cayman. Other hets between 1200 and 1210. (Martin, CO) (See also 1201, 1205, and 1206-ed)
- 1205 CAYMAN ISLANDS, Georgetown, R. Cayman fair w/soft mx 0438 7/29. (Mark Connely, MA)  
 +10/14 0020-0032. Woman talking to 0028, IS and ID 0029, then a piano concerto theme leading into something like an auction program. Very weak and rough w/het from the Haitian and slop from WOAI-1200. WOAI was weaker than usual. //1555. (Worst, TX)  
 +Assumed to be the one w/instrumental mx and man w/Caribbean accent and deep resonant voice 0336 10/22. (Portzer, WA)  
 +Poor to fair w/pop mx, minimal interference 0208 11/5. (Baskind, MS)  
 t +Suspected source of carrier looping Caribbean 0358 12/9. (Everitt, OK)  
 +0038 1/3, fair to good w/EE religious talk, nowhere near as good as 1555 khz, an every night regular here. (Everitt, OK)  
 +0134 4/19, good w/pop oldies including "Montego Bay" and "Soul Man." (Mark Connely, MA)
- 1205 a HAITI, Port-au-Prince, 4VLS, R. Progrés, u/Cayman until its 0430 s/off, then all alone w/ID 0449 6/8. Listed for 1210 khz. Beware...France is here also. Poor to fair, French mx and announcers. (Baskind, MS)  
 +(See also 1201, 1203, and 1206 - ed)
- 1205 ? UNID, OC here most likely from R. Cayman 10/6 0552-0610 from about 1150, too far south for the African. Ought to be a law against running OCs. (Gene Martin, CO)
- 1206 a HAITI, Port-au-Prince, 4VLS, R. Progrés, Haitian believed the one here w/strong het high side of Cayman. Latin style female vocal, then man in French 0440 7/29. (Connely, MA)  
 at +Assumed the one here w/primitive sounding mx 0042 8/25. (Connely, MA)  
 t +Heard from 0230 tune-in 9/5 w/French. Speech or commentary until 0300, then various pop mx. Couple of references to "progrés" at 0312. (Stanbury, ON)  
 t +Suspected here w/African style rhythmic mx o/1205 khz het 0032 9/17. (Mark Connely, MA)  
 +Is now in every night w/minimal interference and imposing signal...seems to be 24 hours. (Baskind, MS)  
 +Was last heard here w/excellent signal and man using echo box 0629 10/14. Has now slipped down to 1202a, hetting WOAI-1200 nights. Cayman again audible on 1205 khz, having been formerly wiped out all-night. (Chris Baskind, MS) (See also 1201, 1203, and 1205 - ed)
- 1207 CUBA, Holguín, CMKD, R. Revolución, (ex-R. Reloj) poor to fair w/calls, slogan, and Revolución chimes 11/18 0421. Signal very distorted, a jumble of carriers within 100 hz. (Hutton, GA)
- 1207.6 ? UNID, 0840 6/17 noted het here, suspect Cuba. (Korinek, CA)
- 1210 COLOMBIA, Pereira, HJFF, "La Voz Amiga" ID heard at tune-in 0700 5/30. (Chris Baskind, MS)
- 1210 GUATEMALA, Guatemala, TGMX, R. Rumbos, only Latin found here in recent weeks w/WCAU nulled. Quite dependable August to October nights as late as 0700 and probably beyond. R. Rumbos, but if you can't catch that ID, listen for the snarl of an angry tiger (in SS though, a jaguar snarl) which comes w/every ID. They probably lifted the snarl from the Lincoln Mercury TV ad. (Martin, CO)  
 +SS, ID "R. Rumbos," noisy IDs, repeated promo tape ending w/wildcat snarl, assorted Latin mx. Strong at times, doing a number on WCAU 10/4 0545. (Landry, LA)  
 +w/very full ID 0505 11/15; frequency given as 1-2-1-0, feline snarls, etc. Excellent reception; added to tape library. (Baskind, MS)

+0602 1/2, w/"R. Rumbos" ID, also 0302 1/3, mixed w/YVMN, SS mx, jingle, "Rumbos" ID. (Everitt, OK)  
+0637 1/8, w/"Rumbos" ID and cat snarl, faded fast. (Tomer, CA)

- 1210 t GUATEMALA, loc unkn, TG??, ID "La Voz del Pueblo" fair to gone, mixing w/WCAU 10/6 0255. (Landry, LA) (Slogan implies a relay of TGW-640 but nothing listed besides TGMX - bp)
- 1210 VENEZUELA, Coro, YVMN, R. Coro, killing WCAU on car radio at sunset from salt-marsh location. ID 2238 11/15. (Connelly, MA)  
+Dominant 1026 12/18 w/"Coro" mentioned in very heavy echoes SS announcements, rest of announcements not echoed; 1028 very good w/very clear "R. Coro" ID. Just a moment before, while checking out YVOZ, 1210 had been a complete jumble w/no clear dominant, but by the time YVMN logged, it was clearly dominant and remained so for duration of monitoring. (Doug Everitt, OK)  
+0711 12/25, in jumble of Latin stations, briefly w/ad and loud "R. Coro" ID, by man w/reverberation. (Everitt, OK)  
+0255 1/3, ads, mentions of Coro, mixed w/TGMX and others. Also 0337 1/4, clear "R. Coro" ID. (Everitt, OK)  
+2335 1/5, to excellent peaks, ads for Coro businesses, very good Latin conditions. (Connelly, MA)
- 1210 ? UNID, 0730 12/26, several Latins, one w/ID sounding like "Mundo," don't believe was Rumbos/TGMX. I believe Gene Martin heard a Mundo here a time or two last season. (Everitt, OK) (UNID Guatemalan heard w/R. Mundo by Martin 10/29/77, possibly TGMX -es)
- 1220 BRAZIL, Rio de Janeiro, ZYJ458, R. Globo, fair 0600 11/26 w/interference cutting rising set of tones they use, ID, fanfare, and news. (Hutton, GA)
- 1220 t COLOMBIA, Barranquilla, HJVF, R. Visión, suspected w/apparent "Visión" mention, then man and woman in SS followed by classical mx 0045 9/2. (Connelly, MA)
- 1220 COLOMBIA, Montería, HJAV, R. Cordobesa, very poor u/Visión and Globo w/poor jumbled ID and "RCN" promo 0601 11/26. (Hutton, GA)
- 1220 CUBA, Central España, CMGA, R. Veintiséis, running R. Rebelde-produced program 0945 6/27. (Baskind, MS)  
t +0231 3/31, SS announcer w/mentions of Cuba, garbled by domestics. (Mark Connelly, MA)
- 1220 t DOMINICAN REPUBLIC, Santo Domingo, HIN, suspect this the one w/man frequently repeating "República Dominicana" 0724 7/9, but nothing definite enough for positive ID. Very poor overall quality. (Baskind, MS)
- 1220 MEXICO, México, D.F., XEB, 1051 5/26 talk in EE, SID, fair. (Bill Townshend, DC)  
+Blasting well o/CJOC for a few minutes 7/18 0402-0409 w/ads and Latin music. (Bill Harms, WA)
- 1220 ? UNID, 0121 6/19 I heard several "T-W" or "G-W" IDs after a block of ads. Looped south to south west...sounded Mexican, but that is rather improbable. Not XEB. (Baskind, MS)
- 1223 a ECUADOR, Guayaquil, HCBJ2, R. El Mundo, easy listening automated Latin format w/shouted reverberated screamed "¡El Mundo!" IDs by female between songs. Putting bad het on Cuba-1220. 0447 9/12. (Baskind, MS)  
+(See also 1224.3 - ed)
- 1224 COSTA RICA, San Francisco de Heredia, TIPJ, R. Nueva Victoria, wall-to-wall 0223 11/25 w/SS talk about Costa Rica, mostly lauding recent social and economic advances. (Baskind, MS)  
+Has drifted to 1233 from 1224. (Arctic, 12/29/78)  
+(See also 1224.3 and 1233 - ed)
- 1224.3 ECUADOR, Guayaquil, HCBJ2, R. El Mundo, 0054 12/25, nil to fair w/monotonous Latin mx. Apparently drifting, see also next item. (Everitt, OK)  
+(See also 1223 - ed)
- 1224.4 COSTA RICA, San Francisco de Heredia, TIPJ, 0312 12/25, Latin mx, SS talk, 2 mentions of "Nueva Victoria," fair w/slight het of approximately

- 100 hz from HCBJ2. Again 0318 12/29 very good w/Latin mx, SS talk through 0324, then SS announcement w/good San Francisco de Heredia mention. (Everitt, OK) (See also 1224 and 1233 - ed)
- 1230 CUBA, Central Australia, CMGC, finally nailed down //1220 0251 5/30. Very poor, barely in at all. (Baskind, MS)
- 1233 a COSTA RICA, San Francisco de Heredia, TIPJ, R. Nueva Victoria has drifted here from 1220. Poor to fair overall 0458 9/23 w/ID, location and quick "Buenas noches" s/off, carrier cut 0458:15. Maybe Ecuador underneath. (Baskind, MS) (See also 1224 and 1224.3 - ed)
- 1240 BAHAMAS, Nassau, ZNS2, R. Bahamas, 0802 8/7 //1540 w/late-night saxophone solo cutting through slop, easy listening mx, poor w/high noise. (Chris Baskind, MS)
- 1240 ? MEXICO, unid, mystery heard here w/domestics nulled. Mx and talk, frequent "R. Mexicana" IDs most evenings. Any ideas? Good to excellent so most likely just across the border. (Harms, UT)
- 1250 COLOMBIA, Bogotá, HJCA, R. Capital, poor 0553 11/26 w/TC, ID. (Chris Baskind, MS)  
+Rising over a rumble 11/27 0357 w/ID. (Hutton, GA)
- 1250 CUBA, Caibarién, CMHL, new DobleVé outlet here 11/27 0400 w/fair signal. (Chuck Hutton, GA)
- 1250 HONDURAS, San Pedro Sula, HRQ, R. Suyapa, in poor to fair 4/26 0528 with GMT -6 TCs, sports coverage. No mx heard at all. (Baskind, MS)  
+Dominant 0330 7/13 w/fast TC and ads. (Baskind, MS)
- 1260 CUBA, Consulación del Norte, CMAX, "R. Reloj Nacional" ID, 2 male announcers, gong and beep sequence in continuous SS nx program, poor w/interference from several stations 10/3 0728. (Landry, LA)
- 1260 MEXICO, México, D.F., XEL, R. Capital, 12/6 several nice IDs by slogan around 0055. (Krueger, TX)
- 1260 MEXICO, Ojinaga, Chih., XEOG, 9/29 w/numerous "R. Ranchita" IDs all evening, mostly ranchera mx and long talk 0240-0327. Still in 0410. WIEV completely nulled. (Nittler, NE)
- 1265 ST. KITTS, Basseterre, R. Paradise, local-like creaming adjacent domestics; EE religious program giving mailing address in Trinidad 0119 7/30. (Mark Connelly, MA)  
+In quite decently at last 0900-0944 9/18. S/on w/singing, announcer w/several "R. Paradise" IDs, and some bilingual programming. Measured at 0944 as 1264.984 khz. Reported. KYA-1260 has been good enough to be off at this time all month, allowing tries for this one on 8/28, 9/4, and 9/11 which brought carrier and snatches of audio. (Peterson, CA)  
+9/28 0030 poor but fair for a minute w/religious singing. Also 10/9 fair in EE, list of people and addresses, from letters to station?, then into song. (Poda, OH) (Possibly a list of song dedications - bp)  
+10/9 fair to good mentioning names and locations of listeners in the Caribbean. 0430 gave 12:30 TC, then dedication to prayer partner. Slight slop from WNDE-1260 and WXYZ-1270; noise was the main problem. (Paul Mount, OH)  
+Strong w/dedications and records 10/23 0330 ID. (Nittler, NE)  
+10/22 0218 fair, looped south east. Man and choral singing 0220. (Louis Poda, OH)  
+0335-0340 10/23 w/gospel mx and EE announcer, fair at peaks. (Tomer, CA)  
+0000 10/31 good w/religious program and ID in accented EE. (L. Morby, NY)  
+Potent w/Caribbean EE religious talk, then reggae hymns 2150 11/4. (Mark Connelly, MA)  
+w/"The Gospel According to Music" program at local level 0354 11/13. (Chris Baskind, MS)  
+Quite weak 0905 11/13, which was a shame since KYA-1260 was off for a change. (Peterson, CA)  
+At usual superloud level w/EE gospel mx, 2229 12/16. (Connelly, MA)  
+1026 1/9, assumed w/religion, weak. (Tomer, CA)  
+2305 1/23, like a local, jamming WEZE-1260, preacher in Caribbean EE. (Mark Connelly, MA)  
+0059 2/16, end of "Back to Bible" program w/choral mx. Fair in WWDC-

- 1260 null w/splash. (Townshend, DC)  
 +Excellent w/usual EE religious program 0135 4/19. (Connelly, MA)
- 1270 ? COLOMBIA, loc unkn, HJ??, 0444 7/17 heard man w/TC (fits Colombia),  
 cuckoos, and possible Cartagena mention, not sure. Ideas anyone?  
 (Chris Baskind, MS)
- 1270 CUBA, Camagüey, CMJG, R. Reloj Nacional, weak, intermittent, first  
 appeared as "grizzly" on KFJZ 11/25 0733. (Landry, LA)
- 1270 MEXICO, Umán, Yuc., XEYM, "Música, música, música..." promo, assorted  
 Latin mx, including Ranchero, Cuban, and MoR. "Yucatán" and "...de la  
 Maya" mentioned in promos. ID w/call, followed by "Mérida, Yucatán"  
 (Umán is just outside Mérida). Good to fair w/fading, fluttering,  
 interference from KIOX, KFJZ 11/8 0535. (Landry, LA)
- 1290 COLOMBIA, Santa Marta, HJEB, La Voz del Turismo, logged w/ID 0330 11/28  
 (Stanbury, ON)
- 1290 ? CUBA, loc unkn, CM??, unlisted DobleVé outlet heard 11/17 0025.  
 (Chuck Hutton, GA) (Latest info shows this to be a new station in  
 Rancho Veloz, subject to confirmation - ed)
- 1290 VENEZUELA, Puerto Cabello, YVLF, 0250 1/6, "R. Puerta Informa," into  
 Latin vocal, good. (Straus, NJ)  
 +2320 2/6, w/Latin mx, "R. Puerto" IDs, in heavy domestic mess.  
 (Elliot Straus, NJ)
- 1290 VENEZUELA, San Félix, YVFF, "R. Canaima" 0657 6/9 w/the number 8 song in  
 the country. Rather poor. (Baskind, MS)
- 1300 COLOMBIA, Cartagena, HJOG, La Voz de las Antillas, strong 0202-0205  
 11/28 w/Todelar and Cartagena announcements. Clear for a few minutes.  
 (Stanbury, ON)
- 1300 MEXICO, Ciudad Juárez, Chih., XEP, dominating, ads, mentions of Juárez,  
 mx, and ID 10/30 1141. (Harms, UT)
- 1300 MEXICO, Tampico, Tams., XELE, a long-standing mystery solved 0216 11/5  
 w/"R. Trece, Tampico" o/slop. Finally pinned the semi-regular "Trece"  
 to XELE. (Baskind, MS) (KWKW, XEP, XEXW, and XEXV also have this  
 slogan so a city mention is a necessity here - bp)
- 1300 VENEZUELA, Maracaibo, YVNS, R. Reloj, dominant w/SS version of US MoR  
 hit, then "Punta" ad, SS talk giving studio location as Maracaibo; over  
 other Latins (domestics totally blocked by heavy-duty auroral activity)  
 0121 10/2. (Connelly, MA)
- 1310 t COLOMBIA, Barranquilla, HJAK, La Voz de la Patria presumed the one here  
 2325 12/19 mentioning "Atlántico" during sports coverage. Was fighting  
 it out w/another Latin 2345. (Stanbury, ON)  
 +0055 1/1, ID as "La Voz de la Patria." (Stanbury, ON)
- 1310 CUBA, Bayamo, CMDD, new R. Revolución 11/5 0418. (Hutton, GA)
- 1310 MEXICO, Veracruz, Ver., XEHV, 0312 5/31 w/"H-V...R. Trópico!" IDs and  
 fair signal. Possibly all-night now. (Baskind, MS)
- 1310.2 ? UNID, het on domestics, probably a Latin 0439 11/4. (Connelly, MA)
- 1315 ? UNID, weak carrier and occasional bits of modulation u/1320's skirt  
 0200 9/24. Hispaniola was in well at the time...maybe Dominican Repub-  
 lic. (Chris Baskind, MS)
- 1320 MEXICO, México, D.F., XECMQ, 0935 2/26, brief ID by man through KCPX as  
 "R. Sensación," KUDE off. (Mittman, CA)
- 1335 CHILE, Pitrufquén, CD134, reported on 1335 ex 1490. (NRC 9/25)
- 1340 BERMUDA, Hamilton, ZBM2, "R. Bermuda" ID following pop mx by Chicago  
 0845 8/5. Rather poor signal and heavy interference, but turned up on  
 tape...announcer seemed to have a slight accent. Another ID heard acci-  
 dentally while taping past Panamá ID 0426:45 8/17. Such a pest, hi!  
 (Chris Baskind, MS)

- 1340 COLOMBIA, Bogotá, HJFB, "Cuarenta minutos en La Voz de la Sabana" over mess 0640 7/19. Colombia dance mx followed. (Baskind, MS)  
+ "En su radio, H-J-F-B" 0335 11/5 u/Honduras. (Baskind, MS)
- 1340 HONDURAS, San Pedro Sula, HRRG made an appearance 0354 11/5 w/"R. El Mundo, la grande" ID o/co-channel interference. Poor. (Baskind, MS)
- 1340 MEXICO, Mexicali, B.C., XEAA, 1006 1/22, drifting in and out of domestic mess for at least one hour, mainly w/SS talk. IS of high quick little notes heard a couple of times, finally "R. Doble A" slogan ID. (Nick Hall-Patch, BC)
- 1340 MEXICO, Monterrey, N.L., XENV, R. Alegria, w/SID and SS talk 0358 5/6. (Chris Baskind, MS)
- 1340 NICARAGUA, Managua, YNDM, Ondas Sonoras, is on the air to 0430. (NZDXT 6/2)
- 1340 PANAMA, David, HON26, just peaking in 0400 5/5 w/local mx, mention of "panameños," etc., but no ID. Oh rats. (Baskind, MS)  
+ No doubt about it this time. Good "R. Cristal" ID 0429 8/17 in heavy slop. Channel super-active at the time. (Baskind, MS)
- 1345 ? UNID, looping Central America at old location 0308 12/14; 0311 fair w/male and female announcers alternating. Very good modulation level but seemed somewhat muffled. (Everitt, OK)  
+ 0106 12/25, weak carrier in slop w/occasional Latin mx. (Everitt, OK)
- 1350 MEXICO, Torreón, Coah., XETB, ID w/calls, romantica mx, extremely poor w/fading and interference from several stations 12/12 0650. (Landry, LA)
- 1350 ? UNID, 10/2 0824, 5-note whistle IS (and echo?) unlike any others heard. Man giving GMT -6 TC in SS. "R. Aliz"?? ID, and something about noticias. Fair in KRLC null w/interference from LPRT TT. (Hall-Patch, BC)  
+ Nick's unid in 10/21 DXWW was possibly KABQ in Albuquerque. Format and time zone match. (Harms, UT)
- 1355 a? UNID, 0347 11/8 noted w/mx from "The Sting": "Solice," "The Entertainer" etc. A lot of OC until 0354 when "The Hustle" began to fade through. Must have done s/off shortly thereafter but no modulation heard; carrier cut at exactly 0400 (suggests Cuba). (Baskind, MS)
- 1360 COLOMBIA, Cartagena, HJTU, R. Reloj, o/junk just long enough to get an ID 0735 6/9. The "j" in Reloj was heavily pronounced as an "h," much more so than I am used to hearing w/Cuba, for instance. (Baskind, MS)
- 1360 CUBA, La Habana, CMBG, R. Popular, ID 2331 11/26, Latin mx program. (Chris Baskind, MS)
- 1360 DOMINICAN REPUBLIC, "one of those relays," HISD readable w/a good "R. TV Dominicana" ID 0156 6/19. (Baskind, MS)
- 1365 av DOMINICAN REPUBLIC, a R. TV Dominicana outlet heard drifting around here 0200 11/8 w/ID and old Latin mx. (Baskind, MS)
- 1365 HONDURAS, Ciudad Danli, HRTR, R. Danli, fair 11/24 0222 w/their often - used long series of cuckoos and "R. Danli" ID. (Hutton, GA)  
t + 0259 12/25, obliterated by intense 1360 slop, w/Latin mx, also spikes from KCRC-1390 only 1 mile away. A carrier was heard earlier on 1364.2, don't know if it was Danli, but if it was, they're certainly drifting. (Doug Everitt, OK)  
+ 0830 2/27, almost good w/female SS vocal. (Thomas, FL)
- 1365 ? UNID, strong carrier w/undermodulated soul mx 1128 11/6. Faded at LSR; was nothing but a het by 1135. Danli? (Baskind, MS)  
+ Cuckoos, TC (which I couldn't make out) and SS talk by man 0403 11/8. (Chris Baskind, MS)
- 1370 COLOMBIA, Barranquilla, HJBO, R. Piloto, 0753 7/13 TC, jingle, burglar alarm siren, and a "R. Piloto" ID by 2 men. No R. Mundial, HJXK, this time. (Baskind, MS)
- 1370 MEXICO, Campeche, Camp., XEA, R. Variedades, blasting in o/other Mexican w/ID, telephone number, TC as 7:32 0232 8/6. (Baskind, MS)

+ID "Ehkees eh ah," US top-40 mx, another ID, and announcement. Booming in for several minutes then fading, interference from WCOA 10/4 0028. (Landry, LA)  
+Runs 1 kw day and night per announcement heard on frequency 0200 11/13. (Chris Baskind, MS)

1370 ? MEXICO, loc unkn, XE??, "Johnny's Got a Girlfriend" o/crud 0213 7/13 like XEQR. Who? (Baskind, MS)

1375 ST. PIERRE AND MIQUELON, FR3, good w/man in French, slight 1376 khz het 2325 9/16. (Connelly, MA)  
+Noted w/good signals for the first time this season 2210 12/8. (Stanbury, ON)  
+2235-2255 12/9, fair to good w/French pop mx, Murphy's Law prevented ID on the hour. (Cartwright, PA)  
+0115 12/15, unusually strong and fade free w/man in French, choir, s/off 0141 w/Marseillaise. (Feltman, PA)  
+2217 12/30, loud w/female in French. Power increase here yet? (Mark Connelly, MA)  
+0100 1/3, w/classical mx, loud. (Connelly, MA)  
+2254 1/13, good w/French dialogue. (Connelly, MA)  
+2315 1/16, w/EE pop vocals, French man and woman talking, French vocals, excellent. (Straus, NJ)  
+2306 2/7, w/"blooper" tape or record played at slow speed, then man in French. (Connelly, MA)  
+0013 3/29, noted w/piano mx at good strength, unbelievably fast and deep auroral flutter fading. (Connelly, MA)

1380 DOMINICAN REPUBLIC, Santiago, HISC, 2335-2350 1/11, w/WAWZ nulled, fair w/usual Dominican stuff and "R. Nacional" ID. WAWZ Zarepath, NJ also in SS at this time. (Straus, NJ)

1380 MEXICO, México, D.F., XECO, 10/2 0737 Latin mx, 0744 man said "en R. Eco es la una cuarenta y cuatro" and gave other R. Eco mentions, then more mx. (Phil Bytheway, WA)  
+0523 1/12, "R. Eco" ID, romantica mx, poor signal w/heavy interference from WAOK. (Landry, LA)

1380 ? UNID, SS noted here 0905 6/26. Couldn't get the direction due to nulling KGMS. Heard several electronic whistles (one at a time), like XERPM used to use. Possibly same unid noted 7/3 0749 with a 1:49 TC in SS. (Nick Hall-Patch, BC)

1385 HAITI, Port-au-Prince, 4VARH, R. Port-au-Prince, 0230 6/13 w/fair signal and very little interference, French talk and mx. Good ID 0234, MoR selection. 4VJDC-1330 was also in at local level. (Baskind, MS)  
t +0720-0830 1/1 fair w/island type merengues, looped Hispaniola but the language of the female unid. (Thomas, FL)

1390 MEXICO, Chihuahua, Chih., XEV, dominant all morning after CKKC s/off 0907 6/5, lots of "R. Fiesta" IDs heard, call letter IDs heard 0925, 1120, and 1143. Covered by KBLW s/on 1159. (Portzer / Bytheway, WA)  
+ "R. Fiesta" ID noted 3 times 0945-0955 6/26. Played old US rock and uptempo Latin mx. Poor to fair signal w/CKKC off regular schedule but on w/TT. Heard one 3 letter call ID, but too much noise to interpret. (Nick Hall-Patch, BC)  
+Noted 1025 6/26 w/boistrous mx, then "...Chihuahua, este es XEV, Radio Fiesta, 1390 khz..." Again, 1058 w/KKOA w/mention of Chihuahua, then "la música de R. Fiesta" ID. (Portzer, WA)  
+ID "R. Fiesta," call letters. Extra poor, fading quickly w/interference from XEOR, WROA, and unid US station 11/16 0850. (Landry, LA)

1390 MEXICO, Reynosa, Tams., XEOR, R. Gallito, poor to fair 0356 7/15 with "Cuatro para las diez" TC, mx, promo asking listeners to tune in Monday, Tuesday, and Wednesday for something or other, highly detailed ID on top of the hour. (Baskind, MS)  
+Man and woman mentioned Reynosa in promo, MoR SS mx. ID sounded like "R. Gallito Tamaulipas." Lots of announcements, poor often turned into "grizzly" 9/27 2325. (Landry, LA)

1391 ? UNID, 0512 2/11, maybe a drifting Cuban? Shrieking het against WEGP-1390, audio garbled, loops Cuba or Central America. (Connelly, MA)

1395 PERU, Sicuani, OAX7R, R. Sicuani, (ex 1365) schedule should be 0955-0500. (NRC 12/18/78)

- 1400 t CUBA, loc unkn, CM??, "R. Cubaña" (Cuban R.) heard u/slop 0140 7/17, would guess this. (Baskind, MS)  
+0200:40 11/14, end of "La Cancion" program, 3-note IS, "...en cadena...", GMT -5 TC, and ID as R. Camagüey. (Baskind, MS) (Latest info shows this to be a new station in the Cuban city of Florida, subject to confirmation - ed)
- 1400 MEXICO, Tampico, Tams., XETO, o/slop 0634 5/1 w/SID: "T-O, R. de Tampico." (Baskind, MS)
- 1404 MEXICO, Puerto Peñasco, Son., XEQC, noted this 11/5 0305, 11/19 0545, 11/21 0600 w/mention of Puerto Peñasco. No call heard. XEQC Puerto Peñasco listed on 1390 in Hauser's Mexican list. Not on every night to 0600. When it is on it makes Guinea impossible. (Seaver, CA)
- 1410 MEXICO, México, D.F., XEBS, 0007 12/20, romantica mx, including EE MoR tunes, many announcements, 6-note whistle-like IS. (Landry, LA)
- 1415 t DOMINICAN REPUBLIC, Dajabon, HIOS, R. Marién, suspected poor to fair w/SS talk 2305 11/15. (Connelly, MA)  
+Suspected w/mx, then man in SS, weak 2242 12/16. (Connelly, MA)
- 1420 COLOMBIA, Cartagena, HJAP, 0356 6/13 w/"R. Bahia" IDs mixing w/slop and another Colombian. (Baskind, MS)
- 1420 COSTA RICA, Nicoya, TIMMC, R. Nicoyana, taped here somewhere around 0210 10/7 w/shouted ID and almost simultaneous fade. Didn't discover catch until casual tape playback 10/9. Signal was buried in interference and badly distorted by end-of-tape level dropout. (Baskind, MS)
- 1420 t CUBA, Baracoa, CMDX, I assume it was CMDX running reloj feed 0616 5/28. A bunch of these low powered Cubans seem to run Reloj Nacional at night. Maybe someone should compile a list. (Baskind, MS)
- 1420 MEXICO, Irapuato, Gto., XEWE, 0451 1/11, "R. Irapuato" ID, romantica or rancharo mx, poor w/splash from KELI-1430. (Landry, LA)
- 1420 ? MEXICO, unid, XEOW calls heard rock solid o/Bahia 0520 9/12. Faded u/interference 0521. (Baskind, MS)
- 1420 VENEZUELA, Maracaibo, YVZO, in w/slow ballad, then SS talk giving location as Maracaibo, then "R. Vision" jingle followed by festive Latin mx; approximate 50 hz het against WBSM 0145 10/2. (Connelly, MA)
- 1420 ? UNID, an IS present 0954 6/12: 6 notes repeated over and over on chimes until 1006 fade-out. Who? (Baskind, MS)
- 1424.7 ? UNID, 1027 3/26, fair carrier, no audio. (Thomas, FL)
- 1425 ? UNID, carrier looping South America (but could be Panamá), no distinguishable audio 0500 11/6. Some snatches of SS talk 0505. (Everitt, OK)
- 1427 PARAGUAY, San Juan Bautista de las Misiones, ZP35, R. La Voz de Misiones, reported here ex 1430 khz. (NRC 9/26/78)
- 1430 t CUBA, loc unkn, CM??, a new relay of R. Surcos CMJP-1190, here. First noted at s/on 0930 6/14 w/background mx and "Este es C-M-J-P, R. Surcos, la emisora provincial de Ciego de Avila en Cuba, territorio libre en América" by a man. "Música el Libertad" program followed. Very potent at local quality level. Very surprising. (Baskind, MS)  
+2330 11/30, clear "R. Surcos" ID, regular on auroral nights. (Feltman, PA)  
+0540 2/20, SS talk by man, good atop channel. (Townshend, DC)  
+0540 3/11, noted w/SS discussion of fighting in South East Asia. (Mark Connelly, MA) (Latest info shows this to be new in Morón, subject to confirmation - ed)
- 1430 t VENEZUELA, Caicara del Orinoco, YVSN, R. Caicara very tentatively the station in SS w/jumbled ID around 2240 10/30. (R. Morby, NY)
- 1430 ? UNID, 2256-2300 1/6, SS mx, talk o/domestics. (Connelly, MA)
- 1440 COLOMBIA, Tuluá, HJEK, R. Reloj, 0228 10/1 man w/station promo and several Caracol mentions o/XEAI's "A-I" jingles. One of my better Colombian efforts. (Baskind, MS)

- 1440 MEXICO, México, D.F., XEAI, ID "R. Ah Ee," frenetic SS pop mx, another ID. Poor, fluttering, some fading, 12/10 0040. (Landry, LA)
- 1444 ECUADOR, Quito, HCBZ1, R. Casa de la Cultura Ecuatoriana, here 0301 10/17. Restrained Latin mx, then man in SS 0303 w/variant on "Tape" theme, unintelligible TC, Big Ben chimes, and a muffled "R. ..." IDed by Hutton over the phone. Thanks! (Baskind, MS)
- 1450 COLOMBIA, Santa Marta, HJPM, R. Galeón, w/"DXers delight" station promo 0625 7/13: "En R. Galeón...exitos! En R. Galeón..carrismo! En R. Galeón...música!" and so on. (Baskind, MS)
- 1455 t HAITI, Cap-Haitian, 4VEA, French here 11/29 0003 very poor. Strength comparable w/La Voix du Nord having moved here from 1465. (Hutton, GA)
- 1460 GUATEMALA, Santa Bárbara, TGRM, R. Petón, 0230 10/1 w/"R...de Guatemala" ID and 4-note clarinet IS. Frequency simply mangled by Latins at the time. (Baskind, MS)
- 1460 ? UNID, suspect México, a very clear "...en R. Alta" heard 0150 11/14. No, it was not R. Ola; the ID was most distinct and showed on tape. Ranchera mx. (Baskind, MS)
- 1465 ECUADOR, Esmeraldas, HCDY4, R. Iris, excellent w/nx and ID 0300 11/29. (Chuck Hutton, GA)
- 1470 CUBA, Cárdenas, CMGE, Cuban NA fluttering in and out 1000 8/10 w/weak signal, heavy domestic interference. (Baskind, MS)
- 1470 HONDURAS, location of R. Moderna is El Progreso, not San Pedro Sula. (Arctic, 2/23/79)
- 1470 MEXICO, Los Mochis, Sin., XECU, 10/30 1146 "XECU, la rancherita mejor de nuestro México" or somesuch ID. Fair to good signal dominating channel. Not listed in WRTH, but noted in new FL7 by Seaver as 250 watts. Good morning for Mexicans it seemed. (Hall-Patch, BC)
- 1470 MEXICO, México, D.F., XESM, 0940 6/26 fair w/CJVB OC. Latin mx, then extended jingle w/three "R. Cinco" mentions. (Hall-Patch, BC)
- 1470 MEXICO, Parras, Coah., XEAY, call letter ID u/domestics and XESM 0231 7/13. Had always been a really poor frequency up to this point. (Chris Baskind, MS)
- 1470 MEXICO, Tijuana, B.C., XEBBC, was blasting in strong enough to bury semi-local KXOA 0200 11/21. (Peterson, CA)
- 1470 t VENEZUELA, Valencia, YVJW, R. Latina, probable w/Close Encounters theme. SS talk w/ID which sounded like R. Latina, then disco rock 0059 10/2. (Mark Connelly, MA)
- 1480 ? CUBA, loc unkn, CM??, I caught the last 5 seconds of the Cuban NA here while moving the radio 0402:30 6/9. Carrier went off about 0402:36. An accident. (Baskind, MS) (This could be a new local station in Mayari - ed)
- 1480 MEXICO, Monterrey, N.L., XETKR, through domestic mash w/romantica fare 0540 5/19. (Baskind, MS)
- 1490 MEXICO, Querétaro, Gro., XEXE, R. Mexicana, 0901 5/30 w/heavily echoed "X-E" and lots of IDs. The "X-E" really threw me; thought I'd only gotten half the call! (Baskind, MS)
- 1490 GUATEMALA, Cotepeque, TGCO, La Voz del Trópico, is authorized to increase power from 1 to 10 kw. (NZDXT, 6/2/78)
- 1500 COLOMBIA, Cali, HJLJ, R. Tigre, 1000 6/27 w/2-tone bell IS, shouted "¡Tigre!" ID and talk by man. Pest XERH off for once. (Baskind, MS)
- 1500 COSTA RICA, Ciudad Quesada, TIL3, R. Columbia, battling XERH for frequency domination 0043 10/1. "...diesisiete para las siete" TC (GMT -6) and Costa Rica mentioned, Latin mx //725 khz. (Baskind, MS)
- 1500 MEXICO, México, D.F., XERH, 10/14 0250-0315, SS records, ID of "R-H" between every few records. Electronic whoop 0300. Rough. (Worst, TX)

- +1127 1/29, "IR-HI" shouted by man. On top of mess. (Hall-Patch, BC)
- 1500 ? UNID, 8/21 0802 good w/Mexican type mx. 0605 there was a "R. América" ID by man in SS. First time I've ever noticed SS here. (Bixby, CA)  
+(This is KROQ in Burbank, CA - ed)
- 1505 t ANGUILLA, The Valley, probably the one w/big carrier, always during good Latin cx, precious little audio, measured 1505.021 khz, can anyone confirm measurement? (Straus, NJ)
- 1505 ? UNID, 0430 12/29, in tuning over the channel, thought I heard "Radio Clarín," which would certainly be odd. Sat there for 15 minutes, but was rewarded only by weak carrier and slop w/very occasional mx of some sort. (Everitt, OK)
- 1510 t MEXICO, XEFB(?) noted possible s/on 1209 10/29. Call letters reasonably clear, but there's room for doubt about the "B" in particular. There is a "transmitiendo en la ciudad ????" there too but can't make it out. No listing anywhere for anything resembling this call. Help? (Nick Hall-Patch, BC)
- 1510 ? UNID, 10/10 2200 in WLAC null, SS mx and mx. Nothing listed in Foreign Logs 1 through 5. Very weak, may have possibly been 1511 or another split as the TRF lacks accurate calibration. (Hogan, IL)
- 1515 a NICARAGUA, León, YNCZ, R. Progreso w/ID 1032 5/30. Putting het on WLAC-7510 though only weak signal. (Baskind, MS)
- 1518 ? UNID, Latin-like mx and SS talk by man w/fair signal in very slight WKBW-1520 slop (KOMA silent period) 1045 12/18. Frequency varying slightly as I monitored; HIBL Dominican Republic? No definite loop due to metal surfaces nearby at new location. (Everitt, OK)
- 1520 COLOMBIA, Barranquilla, HJLQ, fair 0548 10/9 w/lively Latin mx and many "R. Minuto / R. Colombiana" IDs. (Thomas, FL)  
+2330-2345 12/27, w/"R. Minuto más popular" ID in WKBW null, Latin mx, male announcer. (Straus, NJ)
- 1520 CUBA, Victoria de las Tunas, CMKT, R. Victoria, w/NA and s/off 0456 5/5. Carrier off 0458:30. (Baskind, MS)
- 1520 t PUERTO RICO, Hato Rey, WRAI, R. Aeropuerto Internacional, 2313 1/16, SS talk by man. WKBW nulled. (Townshend, DC)  
+Now s/off 0500 daily. (Arctic, 2/23/79)
- 1524 a COSTA RICA, Turrialba, TIJJC, R. Columbia, very strong for about half a minute 0350 11/25 //725 khz. Had been in and out for several minutes, finally steady enough to determine simulcast. (Baskind, MS)  
+(See also following tip - ed)
- 1524.5 COSTA RICA, Turrialba, TIJJC, 0729 12/25, good w/Latin mx, then long "R. Col-oom-bia" SID to the tune of an old Broadway hit, more Latin mx, KOMA-1520 on w/OC. (Everitt, OK)  
+1021 3/26, poor w/man in SS monologue and male choral singing. (Gerry Thomas, FL)
- 1524.5 ? UNID, loud high-modulation Latin mx 1055 12/18. KOMA-1520 OC came on 1056, but little trouble from that in 2 khz position. 1058 much SS talk, male and female announcers. 1059 KOMA audio came on, totally smothering anything in the area. Would guess Costa Rica. (Everitt, OK)
- 1525 ? UNID, Latin here 1114 10/30 varying erratically from a carrier to a huge audio and back again. Rooster crow but no possibility of ID. Peaked on Mexican sounding mx and good Mexican cx this morning, so a drifter? Also a carrier on 1524.5. (Hall-Patch, BC) (Probably the Costa Rican - bp)
- 1526 a? UNID, 8/9 0145 SS man and woman w/talk and slow Latin mx. Fair to nil. HIFU probable. (Thomas, FL)
- 1530 CUBA, Morón, CMJX, "...CMJX, R. Morón" ID heard 0931 9/17 o/domestic babble and minor noise. Maybe the "Surcos" outlet reported here some time ago...goes to show that // logs aren't always too safe. (Chris Baskind, MS)  
+Totally dominant w/"R. Morón" ID, familiar Cuban slogans 0201 10/1. Usual WCKY totally annihilated by aurora. (Connelly, MA)

- 1530 ? CUBA, loc unkn, CM??, yet another new R. Surcos CMJP-1190 relay on this frequency, though not as powerful as 1430 or 1190. Fighting the Mexican. (Baskind, MS)
- 1530 t MEXICO, México, D.F., XEUR, R. Onda, 11/30 2307-2314 in for a while w/SS songs. (Cartwright, PA)  
+0230 1/6, "R. Onda" w/pop mx, reverberated talk, fair. (Straus, NJ)
- 1530 ? UNID, 0612 3/19, very poor Latin noted w/male and female announcers and barking dog sound effects. Killed by WCKY test. (Thomas, FL)
- 1535 ? UNID, 0409 12/29, weak carrier in slop. (Everitt, OK)
- 1540 BAHAMAS, Nassau, ZNS1, o/feeble WPTR groundwave; EE religious program 0102 10/2. (Connelly, MA)  
+TC (EST), soft rock, mx w/tunes back-to-back, "Bahamas R. Network" ID, another TC. Male announcer had slight Caribbean accent. Fair to poor w/deep fades, fluttering, 10/23 0851. (Landry, LA)  
+0510 12/21, "and now the R. Bahamas Gospel Hour." (Krueger, TX)  
+2307 1/6, under WPTR, soul/reggae mx, male Caribbean EE announcer. (Mark Connelly, MA)
- 1540 t MEXICO, Celaya, Gto., XENC, probably the station 0223 10/9 w/ranchera mx, "La Mi Radio" semi-IDs, rooster crows, and what sounded like a Celaya mention 0225. Time pips top of hour (...-). "Gran Familia" cadena member. (Baskind, MS)
- 1541.4 COLOMBIA, Barrancabermeja, HJHD, La Voz de Petróleo, poor 0315 11/27 w/ID. (Hutton, GA)
- 1550 COLOMBIA, Barranquilla, HJCB, R. 15-50, noted atop CBE 0233 11/28. CBE, incidently, was playing West Indies mx at this time. (Stanbury, ON)
- 1550 COLOMBIA, Bogotá, HJZI, R. Fantasia logged briefly atop frequency 0157 ID 11/15. (Stanbury, ON)
- 1550 COLOMBIA, Cali, HJLT, R. Farallones, fair w/ID over a jumble 1112 11/26. (Chuck Hutton, GA)
- 1550 CUBA, Santiago de Cuba, good ID 0259 11/25 o/battlefield-like frequency, droning Latins. (Baskind, MS)
- 1550 GUATEMALA, Zacapa, TGCK, R. Sultana de Oriente, 0301 11/25 w/"La Hora (something)" program introduction, several Guatemala mentions and "Hora ...canción en Guatemala." GMT -6 TC. (Baskind, MS)
- 1550 MEXICO, Nuevo Laredo, Tams., XENU, MoR and ranchera mx, ID w/call, frequent announcements, good to poor w/fading, fluttering interference from several stations 11/8 2355. (Landry, LA)
- 1550 t TURKS AND CAICOS ISLANDS, Grand Turk, VSI, 2350 10/30 after CBE taken out by sudden and brief geomagnetic disturbance lasting only 2 hours, sent "VVVV" in code as part of a nx broadcast; man in Caribbean accent w/ad for "Frosty Root Beer," 0011 10/31 man again in Caribbean accented EE playing disco mx but lost 0020 to CBE who took over for keeps. Noted Cayman-1555 fade-in 2350, and some daytimer was testing w/TT, apparently into a dummy load that radiated a bit, to add to the confusion. Whatever it was, their frequency was within 50 hz of center channel. This geomagnetic disturbance was unusual in that the usual indicators of Caribbean openings, 1100, 1165, 1265, etc., were of only poor to average level. In "classic" auroras, they pin the meter. Wonder why. (Foxworth, NY)
- 1550 ? UNID, 2250 1/13, SS station weak here. (Connelly, MA)
- 1555 GAYMAN ISLANDS, Georgetown, R. Cayman, fair 0345 8/23 to s/off w/easy listening mx and full ID at s/off. (Allchin, New Zealand)  
+Very strong 0230-0330 s/off 9/24 after hour of BBC programs and local music. Country number 61 logged. (Nittler, NE)  
+Fair w/Karen Carpenter vocal in WQXR-1560 and WPTR-1540 slop 0012 9/27. Excellent on the TRF(1) w/Dr. Hook record 0203 10/1. (Connelly, MA)  
+10/12 0020 US type records interspersed w/personal messages. 0030 4-note IS and ID. Mentioned AM and FM, then into a BBC program. Slop from WLUX-1550. (Worst, TX)

- +Still very regular here. Good w/EE talk 0050 12/8. (Everitt, OK)
- +Strong OC w/fluttery fading for one and a half minutes monitored 1101 12/18. Weak carrier noted earlier on 1205 khz. (Everitt, OK)
- t +Surely the one w/religious mx and hymns, and EE talk through fierce KZAM-1540 slop 1130-1136 12/18. No ID heard. Don't laugh folks, Cayman-1555 is my most wanted station and this is the first time I've even heard a peep out of them, thanks to KZAM, which loops in the same direction. (Portzer, WA)
- +0315 1/6, w/Island and world nx, excellent on peaks, 1205 khz barely audible. 0430 1/10, w/GSQ in progress, 0433 power off. (Straus, NJ)
- +2308 1/6, fair w/man in EE. (Connelly, MA)
- +2155 1/27, poor signal w/beautiful mx. (Krueger, TX)
- +1015 2/11, very good w/gospel type program. (Straus, NJ)
- +0010 3/31, fair w/EE radio drama in bad WPTR-1540 slop. (Connelly, MA)
- +0146 4/19, fair w/reggae song in WPTR-1540 slop. (Connelly, MA)
  
- 1560 CUBA, Cárdenas, CMGB, R. Reloj Nacional programming fair to poor w/KWCO interference. Fluttering, WDXR off 10/31 0710. (Landry, LA)
- +0610 2/20, SS talk by man fair to good o/WQXR. (Townshend, DC)
  
- 1560 t MEXICO, Champotón, Chis., XESE, w/"La Hora Nacional" simulcast 0450 8/7 fighting XEVIP's EE fare. Still no definite ID here, however. (Chris Baskind, MS)
  
- 1560 MEXICO, Ciudad Juárez, Chih., XEJPV, heard nightly 0015-0300 w/numerous ads for "Banco Nacional de México, Banco B-C-H, superama en Río Grande Mall." Has jingle ID after each record w/simply "La P-V." No Radio Chamizal IDs heard. (Nittler, NE)
- + "R. Chamizal" ID noted 1214 11/20. Fair to good signal dominant on channel w/jumpy Latin mx and various spots. (Hall-Patch, BC)
  
- 1560 PUERTO RICO, Bayamón, WRSJ, R. San Juan, noted topping WQXR 0115 11/4. Interestingly, this was not heard during the 11/14-15 opening, although possibly the one way under WQXR at 0400 w/SSB. (Stanbury, ON)
  
- 1570 t GUATEMALA, Guatemala, TGVE, 0535 12/24, good w/man in excited SS ending talk w/hollered "¡Marimba!", then non-stop marimba mx, sank below XERF. (John Feltman, PA)
- +0548 12/27, marimba mx, "de la marimba" slogan, s/off mentioned Guatemala, weak under XERF. (Landry, LA)
  
- 1570 ? UNID, 0503 11/28, w/two definite "R. Feya" IDs, nothing even close listed. About 100 hz off frequency and audio too distorted to read unless exalted carrier reception used. (Hutton, GA)
  
- 1571 DOMINICAN REPUBLIC, Santo Domingo, HIAJ, R. Union, in the clear 11/16 0130 w/"en Santo Domingo, transmite R. Union." (Hutton, GA)
  
- 1575 ? UNID, carrier in unquenchable XERF-1570 slop w/occasional SS talk by deep voiced man 1105 12/18. Again, no looping possible. (Everitt, OK)
- +0734 12/25, good signal w/Latin mx in slop. (Everitt, OK)
  
- 1573 t CUBA, loc unkn, CM??, in and out w/poor signal and moderate Latin mx 0330 10/9. Per Hutton, this is R. Cadena Agramonte from 1583 khz. (Gerry Thomas, FL)
  
- 1580 MEXICO, Hermosillo, Son., XEDM, 0403 9/27 SS talk by man w/fair signal. (Bill Townshend, DC)
- +Cuban-style mx, then Jingle Bells chimes followed by ID: "La Grande de Sonora." Good to nil w/marked fading, displaced by KLOU at times. 12/12 0627. (Landry, LA)
- +0525 2/19, sermon in SS by man. At end of religious program was alone on the channel. (Townshend, DC)
  
- 1590 URUGUAY, Salto, CV159, R. Regional, now is on 1100-0300 w/2.5 kw. (Arctic, 3/9/79)
  
- 1600 MEXICO, Ciudad Acuña, Coah., XEAE, ID w/call, ranchera mx. Signal intermittent, buried in interference avalanche at times 11/24 0530. (Landry, LA)
  
- 1611 a? UNID, 0406-0422 3/13, Arabic moaning and groaning by man, without mx, just below RAB-1613 beacon. Continuous, poor w/fading. What is? (Bob Curtis, VT)

1613 GUATEMALA, Rabinal, "RAB" marker just above noise level. Big carrier though, nearly spotted on 1613.000 khz. 0544 10/21. (Hall-Patch, BC)  
 +Navigation marker sending Morse Code letters R-A-B repeatedly. Faint w/slight fading 11/24 0615. (Landry, LA)  
 +0742 12/25, fair to good w/ endless "R-A-B" code ID loop, also 0410 12/29. (Everitt, OK)  
 +0832 4/16, good w/continuous morse code IDs. (Portzer, WA)

The following are items of general interest, and additions and changes to the 33rd edition of the World Radio Television Handbook (WRTH '79). The following clubs and organizations contributed these items through their respective bulletins: Arctic Radio Club, DX Club do Brasil, Medium Wave Circle, New Zealand Radio DX League, National Radio Club, North American Shortwave Association, and Sweden Calling DXers.

#### ARGENTINA

670 LRA52 R. Nacional, Chos-Malal, Neuquen, new, 1 kw  
 730 LU23 Emisora Lago Argentino, Calafata, Santa Cruz on air 2/15, with 10 kw  
 730 LW7 R. Catamarca will soon increase power to 25 kw  
 740 LRA55 R. Nacional, Alto Río Senguerr, Chubut, new, 1 kw  
 780 LU14 is now 25 kw  
 860 LRA56 R. Nacional, Perito Moreno, Santa Cruz, new, 1 kw  
 870 LRA R. Nacional now transmits 1000-0500  
 1030 LRA15 R. Nacional, Tucumán, now 50 kw  
 1150 LRA51 R. Nacional, Jachal, San Juan, new, 1 kw  
 1230 LT2 R. Splendid, Rosario, is now 25 kw, on 0900-0400  
 1370 LRA54 R. Nacional, Ingeniero Jacobacci, Río Negro, new, 1 kw  
 1430 LU29 Emisora Cóndor, ex R. Las Flores  
 1440 LRA53 R. Nacional, San Martín de los Andes, Neuquen, new, 1 kw  
 1520 LT37 Emisora Rufino, now uses 1 kw

R. Río Gallegos (LU12-680) was completely destroyed by fire on 2/1. Has used an emergency transmitter since then. Station is 40 years old.

A new station at Mar del Plata apparently will replace LU9-670 whose license was cancelled some time ago. (Arctic, 5/78)

There is a project to put an LRA station on the Antarctic Continent. The station will be located at the Base Vicecomodoro Marambio in the Argentinian sector. (SCDX)

Most of the country's radio and TV stations will be returned to private ownership if the Executive approves a law submitted by the Public Information Department. A minimum of stations will remain in government hands. (SCDX, 8/78)

Four stations, LT4-670, LT13-1470, LT18-1210, and LT45-1500 have formed the Misiones Association of Private Radio Stations. The new association plans on promoting and defending national values in the border area. (Arctic, 9/78)

A pirate station, R. Andocollo, has been reported operating from the city hall in Andocollo. (Arctic, 3/22)

#### BOLIVIA

600 CP.. R. Aclo, Sucre, in Quechua 1100-1800 and 2200-0100 with 10 kw  
 1050 CP28 R. Cochabamba, moved from 900 khz, has 3 kw  
 1090 CP45 R. Cultura de Cochabamba, 1 kw  
 1260 CP40 R. Nacional de Cochabamba, ex 1250  
 1300 CP.. R. Estación CAMBA, a pirate. Slogan is La Voz Oficial de la Junta Nacional de Acción Social  
 1310 CP68 R. San Rafael heard here ex 1300 by several Scandanavian DXers  
 1490 CP61 R. Juan XXIII ex 1450  
 1510 CP30 R. Litoral, 1 kw. Quechua 1100-1200 and 2330-2400  
 1530 CP116 R. Difusora Cosmos, 24 hours, 1 kw

Unidentified station on 720 heard 0350 indicating operation on an experimental basis. (DXCB, 3/78)

#### BRAZIL

540 new R. Nacional de Corumbá, Corumbá, MT, 10 kw  
 540 ZYK322 R. Sepé Tiaraju now uses 10/1 kw  
 550 new R. Cultura do Agreste, Maridional, Garanhuns, TE, 5/1 kw  
 570 new R. Vale de Cariri, Juazeiro do Norte, CE, 5/.25 kw  
 570 new R. Imperatriz, Imperatriz, MA, 1/.25 kw  
 570 new R. Uirapurú de Itapipoca, CE, 1/.25 kw  
 570 ZYK267 R. Alto da Serra ex R. Passo Fundo  
 570 ZYH244 R. Novo Nordeste ex 830. Power now 5/1 kw

570 ZYL261 R. del Rey ex R. Pampulha, power now 5/5 kw  
 580 new Sobral-Soc. Brito de Radiodifusao, Teixeira de Freitas, Municipal de Alcobaca, BA, 1/.25 kw  
 620 ZYJ778 R. Mirador, ex 540  
 620 ZYJ779 R. Difusora Alto Vale ex 1400, 5/.25 kw  
 630 ZYE351 R. Curitiba is off the air  
 630 ZYJ284 R. Estadual do Parana ex 550  
 640 ZYJ590 R. Cabugi now uses 50/5 kw  
 650 new R. Educadora, Montes Claros, MG, 5/.25  
 720 ZYI390 R. Dourados ex R. Clube de Dourados  
 720 ZYK622 R. Clube de Curinhos ex 1560  
 740 ZYH221 R. Cultura Riograndina uses 5/.25 kw  
 750 new R. Herois do Jenipapo, Campo Maicr, PI, 1/.25 kw  
 760 new R. Difusora de Picos, Picos, PI, 1/.25 kw  
 780 new R. Nacional de Eurinepé, AM, 10 kw  
 790 new R. Sociedad de Ponte Nova, MG, 1/.25 kw  
 840 new R. Nacional de Porto Velho, RO, 50 kw  
 850 new R. Veredas, Uraí, MG, 1/.25 kw  
 850 new Sociedad R. Marabá, PA, 1/.25 kw  
 850 new Caraiba Empreendimentos Culturais, BA, 1/.25 kw, slogan unknown  
 870 R. Educadora Sampaio ex 1420. May be using both frequencies.  
 920 new R. Cultura de Linhares, ES, 1/.25 kw  
 920 ZYJ599 R. Currais Novos ex R. Brejui  
 970 new R. Uirapurú, Zuixada, CE, 1/.25 kw  
 1010 new R. Camboriú, SC, 1/.25 kw  
 1020 ZYK515 R. Cultura de Assis ex 1330  
 1020 ZYI205 R. Difusora de Colatina ex 1070, uses 1 kw  
 1060 R. Caué ex 1580, uses 5/.5 kw  
 1090 ZYK216 R. Alto da Serra ex R. Cachoeira do Sul  
 1140 ZYH751 R. Tapires de Formosa ex 1590  
 1160 ZYK245 R. Luz e Alegria ex 1450, uses 1/.25 kw  
 1160 R. Barretos ex 1530  
 1160 new R. Difusao Alegretense, Alegrete, RS, 1/.25 kw  
 1180 ZYD463 R. Eldorado now 50/50 kw  
 1200 new R. Educadora de Francisco Beltrao, PR, 1/.25 kw  
 1210 ZYJ219 R. Universo now uses 10/.5 kw  
 1210 ZYK550 R. Difusora de Assis ex 1530  
 1240 new R. Difusora de Campo Grande, MT, 5/1 kw  
 1250 new R. Emisora L & C, Caçapava, SP, 5/.25 kw  
 1250 ZYJ233 R. Paranavai on 24 hours  
 1260 new Emisora Pandango, Cachoeira do Sol, RS, 1/.25 kw  
 1260 ZYK204 R. Cultura de Sao Borja ex R. Fronteira do Sul  
 1270 ZYK678 R. Brasil now 5/.25 kw  
 1300 new R. Regional, Santo Cristo, CE, 1/.25 kw  
 1300 new R. Eldorado, Santo Cristo, RS, 10 kw  
 1330 R. Diamantinense ex 1530  
 1330 new R. Educadora Inconfidencia, Umuarama, PR, 5/.25 kw  
 1340 R. Arapuan now uses 1/.25 kw  
 1340 new R. Gurupi, Sao Luis, MA, 1/.25 kw  
 1350 R. Novo Andira, Rio Branco, AC, now uses 5 kw  
 1360 new R. Gazeta, Santa Cruz do Sol, RS, 1/.25 kw  
 1370 new R. Sentinela, Santo Cristo, RS, 1/.25 kw  
 1390 new R. Independencia Cultural, Cascavel, PR, 5/.25 kw  
 1400 ZYH200 R. Difusora Acreana ex 1460, uses 10 kw  
 1400 R. Rural, SC, 1/.25 kw  
 1450 new R. Sao Bento, Sao Bento do Sol, SC, 1/.25 kw  
 1450 new R. Interior, Pinheiro, MA, 1/.25 kw  
 1450 new R. Difusora Ubiratenense, Ubirata, PR, 1/.25 kw  
 1450 new R. Cultura de Palmares, PE, 1/.25 kw  
 1450 new R. Educativa do Amazonas, Benjamin Constant, AM, 1 kw  
 1450 new R. Feliz de Santo Antonio de Pádua, RJ, 1/.25 kw  
 1450 new R. Difusora de Rio Brilhante, MT, 1/.25 kw  
 1450 new R. Cassino, Rio Grande, RS, 1/.25 kw  
 1460 new R. Jornal, Eunapolis, BA, 1/.25 kw  
 1460 new R. 8 de Agosto, Votuporanga, SP, 1/.25 kw  
 1460 new R. de Jequié, BA, 1/.25 kw  
 1460 new R. Uirapuru, Norado Nova, CE, 1/.25 kw  
 1460 new R. Educadora de Uruaçu, GO, 1/.25 kw  
 1460 new L.C. Emissoras, Sao Roque, SP, 1/.25 kw  
 1460 new R. Educadora de Porteirinha, MG, 1/.25 kw  
 1470 new R. Clube de Santo Antonio de Jesus, BA, 1/.25 kw  
 1470 new R. Lider do Vale, SC, 1/.25 kw  
 1470 new R. Cidade de Goias, Goias, GO, 1/.25 kw  
 1480 new R. Rio das Carcas, Acarad, CE, 1/.25 kw

1480 new R. Emboabas, Tiradentes, MS, 1/.25 kw  
 1480 new R. Cruzeiro do Sol, Itaqui, RS, 1/.25 kw  
 1480 new R. Noticias Brasileiras, Itabira, MG, 1/.25 kw  
 1480 new R. Vale do Taquari, Coxim, MT, 1/.25 kw  
 1480 new R. Cultura de Ipora, PR, 1/.25 kw  
 1480 new R. Bahiana de Itaberaba, BA, 1/.25 kw  
 1480 new R. Princesa do Vale, Açu, RN, 1/.25 kw  
 1480 new A Gazeta do Espirito Santo R e TV, ES, 1/.25 kw  
 1480 new R. Emisora de Lagoa da Prata, MG, 1/.25 kw  
 1490 new R. Sociedad de Pombal, PB, 1/.25 kw  
 1490 new Emisora Sul Goiana, Quirinopolis, GO, 1/.25 kw  
 1490 new Emisora Santa Cruz, Para de Minas, MG, 1/.25 kw  
 1490 new R. Alvorada de Rondonia, Jaci-Parana, RO, 1/.25 kw  
 1490 new R. Bela Vista, MT, 1/.25 kw  
 1490 new Rede Regional de Radiodifusao, Gloria de Dourados, MT, 1/.25 kw  
 1490 new R. Educadora de Ipiau, Ipiau, BA, 1/.25 kw  
 1500 new R. Maciço, Baturité, CE, 1/.25 kw  
 1500 new R. Jainara, Bacabal, MA, 1/.25 kw  
 1510 new R. Eldorado, Mineiros, GO, 1/.25 kw  
 1510 new R. Educadora Santana do Caetite, BA, 1/.25 kw  
 1510 new R. Planalto do Ibiapaba, Sao Benedito, CE, 1/.25 kw  
 1510 new R. Cidade de Maracaju, MT, 1/.25 kw  
 1520 new R. Correio do Sertao, Santana do Ipanema, AL, 1/.25 kw  
 1520 new R. Pontal do Triangulo Mineiro, Itarama, MG, 1/.25 kw  
 1520 new R. Santalenses, Santa Helena de Goiás, GO, 1/.25 kw  
 1530 new R. Curimatã de Nova Cruz, RN, 1/.25 kw  
 1530 new R. Regional de Cianorte, PR, 1/.25 kw  
 1530 new R. Ubedin de Fátima do Sol, MT, 1/.25 kw  
 1530 new R. Cultura de Guanabi, 1/.25 kw  
 1540 new Nova R. Independencia, Monteiro, PB, 1/.25 kw  
 1550 new R. Guarujá Paulista, Santos, SP, 1/.25 kw  
 1550 new R. Vale do Salgado, Lavras da Mangabeira, CE, 1/.25 kw  
 1550 ZYJ783 R. Clube de Sao Joao Batista is off the air  
 1550 new R. Acaiaca, Pirapora, MT, 1/.25 kw  
 1560 new R. Cultura Riograndense, Pandos Serros, RN, 1/.25 kw  
 1560 new R. Cristo Educativa, Pires do Rio, GO, 1/.25 kw  
 1560 new Nova R. Independencia, Piceú, PB, 1/.25 kw  
 1560 new R. Difusora Cacique, Nova Andradina, MT, 1/.25 kw  
 1560 new R. Guaraclube, Guarapari, RO, 1/.25 kw  
 1560 new R. Comunicadora, Grande Rio, RJ, 1/.25 kw  
 1570 new R. Costa do Sol, Araruama, RJ, 1/.25 kw  
 1570 new R. Princesa Serrana, Timbaúba, PE, 1/.25 kw  
 1570 new R. Sul Matogrossense de Emissoras, Aparacida do Taboada, MT, 1/.25 kw  
 1570 new R. Sertao Central Senador Pompeu, CE, 1/.25 kw  
 1580 new R. Rio Claro, Ipora, GO, 1/.25 kw  
 1580 new R. Chopinzinho, PR, 1/.25 kw  
 1580 new Rede Independente de Rádio, Jardim, MT, 1/.25 kw  
 1580 new Fundação Padre Martin Kircht, Espinosa, MG, 1/.25 kw  
 1580 new R. Clube de Birigui, SP, 1/.25 kw  
 1580 new R. Independencia de Medianeira, PR, 1/.25 kw  
 1580 new R. Difusao Fronteira, Arroio Grande, RS, 1/.25 kw  
 1580 new R. Cultura de Jaguaribe, CE, 1/.25 kw  
 1590 new R. Cultura Sertaneja, Andará, PR, 1/.25 kw  
 1590 new Sociadad Radiodifusao Independente, Cruz Alta, RS, 1/.25 kw  
 1590 new R. Inharé, Santa Cruz, SC, 1/.25 kw  
 1590 new R. Independencia, Eldorado, MT, 1/.25 kw

A 350 page handbook of Brazilian radio is available from Bernd Kileman, Glojen-  
 barg 14, D-2000 Norderstedt 3, West Germany. Send 1 IRC for information. Contains  
 tropical and medium-wave band plans with location, frequencies, and powers of sta-  
 tions due to start operation in the near future, as well as lists of currently ac-  
 tive stations, postal code information, and extracts of Brazilian radio law. (SCDX)

The Communications Ministry is aware of great interference to stations in west-  
 ern Brazil from Uruguayan and Argentinian stations. It plans to build new stations  
 on medium-wave and create a special broadcasting band for the frontier regions to  
 neutralize the intrusion of foreign stations into Brazil. (Arctic, 8/78)

#### COLOMBIA

1160 HJZV R. Las Lajas, now 10 kw from 5 kw  
 1210 HJTL La Voz del Progreso ex 940  
 1280 HJNQ La Voz del Río Suárez on 0930-0200 with 2.5 kw  
 1450 HJHH R. Oriente ex Aires del Oriente. Now located in Bucaramanga  
 1460 HJBA La Voz de Pamplona, still exists although not listed in the '79 WRTH  
 1470 HJIM R. Musical ex La Voz de la Música ex R. Ya  
 1500 HJLJ R. Tigre now IDs as R. Tigre Internacional  
 1560 HJLT R. Farallones ex 1550

The following stations in Cali belong to TODELAR: HJZG-780, HJEX-900, HJGB-940, HJF-1080, and HJEV-1140. There are 72 TODELAR stations in the country. (Arctic, 5/78)

Radio Uno-660 and Radio El Sol-980 are now RCN ex TODELAR. (NZDXT, 5/78)  
HJEE-1380 now belongs to TODELAR ex CARACOL. (Arctic, 6/78)

HJAY-1510 R. Canoa ex HJBV according to the station. But this call also used by Onda Nueva on 1490. (Arctic, 9/78)

In an ad for the Super network, the Arctic editor found several stations listed which are otherwise unknown: Radio Central in Caicedonia, Armonias del Nechi in Zaragoza, Radio Santa Rosa in Santa Rosa de Osos, La Voz de la Virginia in La Virginia, and La Voz de Tocaima in Tocaima. Any information on these? (Arctic)

#### COSTA RICA

725 TILX R. Columbia, San José now 50 kw

#### CUBA

820 R. Ciudad de la Habana, La Habana, new  
860 R. Metropolitana, La Habana, ex 820  
860 Reloj Nacional, Ciego de Avila, ex Agramonte  
870 R. Progreso, Sancti Spiritus, ex 960  
940 R. Ciudad del Mar, Cienfuegos, //1100  
1000 R. Guamá, San Cristobal, Pinar del Río, ex 1020  
1070 CMKS (La Voz Popular), Guantánamo, ex 1290  
1110 R. Angulo, Banes, Holguín, new, //1120  
1140 R. Bayamo, Media Luna, Camagüey, new, 1 kw  
1180 R. Sancti Spiritus, Sancti Spiritus, ex 990  
1190 R. Sancti Spiritus, Yaguajay, new //1180  
1200 R. Sancti Spiritus, Placetas, new //1180  
1260 DobleVé, Trinidad, Villa Clara, ex 1160  
1290 DobleVé, Rancho Veloz, Villa Clara, new //840  
1360 R. Internacional, La Habana, ex 860  
1390 R. Jaruco, Jaruco, La Habana, ex R. Giron  
1400 R. Camagüey, Florida, Camagüey, confirmed on  
1400 R. Musical Nacional, La Jaiba, Matanzas, ex Agramonte  
1430 R. Surcos, Morón, Ciego de Avila, new  
1460 R. Popular, La Habana, ex 1360  
1460 R. Marianao, Marianao, delete  
1480 R. Mayari, Mayari, Holguín, new  
??? R. Victoria de Giron, new, location unknown

A new relay of Radio Surcos has been noted on 1530 khz. (Arctic, 8/4/78)

Cuban provinces have been re-arranged slightly. (WRC, 2/5/79)

Starting in March, Radio Rebelde's programming will be more new-oriented; Radio Progreso will have more entertainment programs. R. Liberación will broadcast cultural programs including Radio Musical Nacional. (Arctic, 4/6/79)

#### DOMINICA

R. Jumbo has been sold to Radio Caribbean; the 545 khz transmitter is used to relay their programs. The transmitter will be retuned to 1150 khz; they are planning on using 10 kw on 1210 as well. Broadcast in English 1400-1600 local time. Noted on 1150 khz after 3/23. (Arctic, 4/6 and 5/4/79)

#### DOMINICAN REPUBLIC

540 HIBM R. ABC, Santo Domingo ex HICM  
860 HILR R. Clarín, Santo Domingo 50/10 kw  
920 HIBA R. Triunfo, Santo Domingo, new. Uses offices and transmitter of HIG  
1010 HIJP R. Comercial, Santo Domingo will go to 50 kw soon, with a directional antenna with a null to the south.  
1080 HIMC R. Programas Quisqueya, Santo Domingo, off frequency to 1068 khz  
1170 new Monte Cristi, 1/.25 kw, CP  
1290 HIVD La Voz Serrana, San José de las Matas, ex R. Jánico  
1380 HISC R. Nacional, Santiago, to 10 kw soon  
1400 HISS R. TV Dominicana, Pedernales, ex 1410  
1410 HIAE La Gran Musical, Santo Domingo, ex R. Tricolor, 5 kw  
1500 new Hígüey, .25 kw, CP  
1540 HIFB La Reina, ex R. El Mundo  
1550 new San Juan, 1 kw, CP  
1560 HIJC R. Maibá, Santiago, ex 1550  
1570 new Jarabacoa, 1 kw, CP  
1570 HIAJ R. Reloj Union, ex R. Union; now all news with time signals

The Dominican government has proposed legislation to transfer government control of Radio Television Dominicana to the Armed Forces. It is said this will not affect programming or frequencies. (SCDX, 8/15/78)

Santo Domingo DX Club has "Rincon DX-ista" Sundays 1400-1500 on Radio Antillas, 1120 khz. (Bruce Portzer)

ECUADOR

650 HCED4 R. Vision, now uses 5 kw  
 660 HCFE1 R. Jesus del Gran Poder on only 1 hour per week from 0000 Saturday, relaying Emisora Gran Colombia  
 855 HCGE7 R. Nacional Espejo, El Puyo is completely different from the station with the same name in Quito. 1500-0300  
 945 HCDA2 R. Ifesa. Ifesa stands for Industria Fonografica Ecuatoriana, S.A., the owner.  
 955 HCJX6 La Vox del Santuario ex La Voz del Ajoyan is on local mornings and evenings, not on Monday at all.  
 990 HCAO5 R. América ex 985  
 1120 HCEB1 Ecos de Montúfar 2 kw. 1330-0400  
 1235 HGMV5 R. Popular de Cuenca ex R. Popular Independiente  
 1370 HCRF7 R. Patataza, new. 1145-1800, 2330-0400  
 1420 HCRN1 R. Bahái, Otavala, new, 1 kw  
 1430 HCCV3 R. Canal Juvenil now only on AM on this new frequency with 1 kw.  
 1510 HCLV7 R. Ecos del Oriente ex 1350

GUATEMALA

590 TGRQ R. Quiché heard IDing as Mi Radio and Cnda 5-90  
 925 TGJL R. Imperial, San Pedro Garचे noted here, nominally 930 khz  
 1340 TGCC La Voz del Trópico, Coatepeque now here with 10 kw ex 1490, 24 hours

TGNA plans to move its AM, FM, and TV transmitters from Petapa to Anochoché Hill, near Guatemala City. The move is expected to "increase station effectiveness 50%." (IASWA, 9/78)

The Adventist World Radio - Guatemala project was officially opened in August. There will be three transmitters for AM, FM, and short-wave. AM and FM are expected to be on the air in February 1979, with short-wave by mid-1979. (NZDXT, 12/78)

GUYANA

The government has acquired Radio Demerara, a subsidiary of Britain's Rediffusion Ltd. A committee has been set up to formulate the national broadcasting structure within which Radio Demerara and the Guyana Broadcasting Service, already state owned, could operate most effectively. (NZDXT, 3/79)

HAITI

1745 4VBD R. Citadelle, Cap Haitien, not 1500  
 1195 4VAF R. Gand Anse, Jeremie ex 1190  
 1385 4VARH La Voix de Nord Ouest, 1300-1300, 0000-0300  
 1410 new R. Familial, Port-de-Paix  
 1455 4VEA La Voix du Nord ex 1465  
 1475 4VAA R. Val Aux Peuple ex La Voix de Peuple

Several years ago most stations in Port-au-Prince dropped short-wave in favor of medium-wave. Now the trend is toward FM. (SCDX, 3/27/79)

HONDURAS

The Jesuit owned Radio Progreso was closed for ten days in March by the military government, because the station allegedly engaged in political activities in its newscasts. From Yoro on 1110 khz. (SCDX, 4/3/79)

MEXICO

550 XEGUZ Ciudad Guzman, Jal., 200 w. daytimer  
 550 XETNC Tepic, Nay., new, 10 kw directional, 150 watts night non-directional  
 570 new Cananea, Son., 5 kw day  
 680 XELV Hermosillo, Son., 250 w day  
 770 new Córdoba, Ver., 250 w day  
 790 XEGZ Ciudad Lerdo, Dgo., 1/.25 kw  
 810 XELN Cintalpa, Chis., ex 1450, still 1 kw  
 870 XJAMO Irapuato, Gto., new 1 kw day  
 910 XJNO Ciudad Oregón, Son., 1/.25 kw  
 920 XELOM Lazaro Cárdenas, Mich., .5 kw day  
 920 XECQ Culiacán, Sin., 5/.1 kw  
 930 XEGEM Toluca, Mex., 2 kw directional at night  
 950 XEEB Oaxaca, Oax., 1/.1 kw non-directional  
 970 XJDF R. Tres is "La D-F" with light Spanish rock music  
 990 XJUM Valladolid, Yuc., 1/.25 kw non-directional  
 1010 XEEC Chihuahua, Chih., 1 kw  
 1010 XEEB Esperanza, Son., .5/.25 kw  
 1060 XEEF México, D.F., 50 kw, non-directional day, directional night  
 1120 XEEB Oaxaca, Oax., .5 kw day  
 1120 XEGV Villa del Pueblo, Qro., .5 kw day  
 1120 XEEL Jalapa, Ver., 10 kw directional night  
 1120 XEZA Zacatecas, Zac., .25 kw day

1130 XEZZ R. Juventud, Jalapa, Ver., 10 kw full-time  
 1140 XEMR La Nueva MR, Monterrey, N.L., 50 kw, 24 hours  
 1180 XEYI Cancún, Q.Roo, .1 kw day directional  
 1190 new Ciudad Saucillo, Chih., .25 kw day  
 1200 XEFLA Pabellon, Ags., 1 kw day  
 1220 XEB R. Cuatro is now "El Buen Tono de RCT" and "La Grande"  
 1260 XEUAS Culiacán, Sin., ex 1330, 5/.5 kw  
 1270 XEYM Umán, Yuc., 2.5/.5 kw  
 1280 new Tizimín, Yuc., .5/.25 kw  
 1280 XELK Zacatecas, Zac., 5/.25 kw  
 1330 XEUAS Culiacán, Sin., 5/1 kw directional night  
 1340 XEOS Ciudad Obregón, Son., .25 kw  
 1360 XEIK Piedras Negras, Coah., .5/.25 kw  
 1360 XEEJ Puerto Vallarta, Jal., 1 kw day  
 1360 XESA Culiacán, Sin., 1/.5 kw  
 1360 XEXM Jérez, Zac., 1/.1 kw ex 1390  
 1380 XEXOX Las Cruces, Gro., 1 kw day  
 1380 XEAPM Apatzingan, Mich., 1/.1 kw  
 1400 XEQJ Tamazula, Jal., off at night  
 1400 XELR Linares, N.L., .25/.1 kw  
 1400 XERUY Mérida, Yuc., 1/.25 kw ex 1390  
 1420 new Tizimín, Yuc., .5/.25 kw  
 1430 XETT Tlaxcala, Tlax., to 800 watts  
 1440 new Buctzótz, Yuc., .5/.25 kw  
 1450 XEBP Torreón, Coah., 1/.25 kw  
 1470 XESM Radio Cinco is now Radio Formula with romantic music  
 1470 new Becal, Camp., 1 kw day  
 1470 XEQF Loma Bonita, Oax., 5 kw full-time  
 1500 XERH Radio Seis is now "La R-H" with salsa and tropical music  
 1510 XERB Cozumel, Q.Roo, 5 kw day  
 1510 XEKI Villa de Seris, Son., .5 kw  
 1520 XEUAA Aguascalientes, Ags., .25 kw day  
 1530 XEZYB Oaxaca, Oax., .5 kw day  
 1540 new Cabo San Lucas, B.C.S., 5 kw day  
 1540 XEHOV Hermosillo, Son., 5 kw non-directional  
 1550 XEUVV ex XEXB  
 1560 XEZW starts .5 kw day  
 1580 XEFP 2/.25 kw from 1/.25 kw  
 1590 XECSI Culiacán, Sin., .25 kw day  
 1590 XECP Valladolid, Yuc., ex XENMB

The following stations are members of RED, Regional del Sistema Radio Yucatán. Network address is Sistema Radio Yucatán, Publicentro de Mérida, Calle 62, No. 508, Mérida, Yucatán, México. (NEZXT, 1/79)

970 XEMH Radio Mérida, 1 kw, 24 hours  
 1240 XEMQ Tus Panteras Juveniles, 1 kw  
 1310 XEUP Radio Tizimín, 1 kw, 16 hours daily, La Rancherita  
 1360 XEUL La Barracuda del Cuadrante, 500 watts, 16 hours daily  
 1450 XEPY De Su Radio 1450, 500 watts, 16 hours daily

#### NICARAGUA

840 YNRN Radio Noticias, Managua now 10 kw  
 930 YNW Radio Mundial, Managua ex 920 khz

The Nicaragua Radio and TV Directorate has reopened Radio Mundial. Public pressure reduced the period of closure to only 15 days. Radio Mi Preferida and Radio Futura were suspended each for one day at the beginning of May for broadcasting what was considered false reports. (SCDX)

(Of course, none of this means anything now. We all hope that Nicaragua will solve its problems soon.)

#### PANAMA

1060 HOJ60 La Voz de Panamá, ex 1380  
 1200 HO.. Onda Tropical, Chitré still here. Heard last season on 1197 khz. A move to 1130 is in future plans. New address is Apartado 1181, Chitré  
 1380 HPM21 Radio Titania, ex 1060  
 1390 HOL Radio Atlántico, Colón, is now Super Sol

#### URUGUAY

610 CX4 R. Rural now a clear channel with 50 kw. Sign-on 1030.  
 650 CX6 SODRE will increase power to 100 kw in 1979 and 200 kw in 1980  
 1050 CX26 SODRE now uses 50 kw  
 1170 CX32 Radiomundo is the accurate station name, 24 hours  
 1200 CW33 Radio Florida is the correct name of the station  
 1210 CX34 Radio Artigas inactive after the death of its director

1250 CX36 Radio Centenario will increase power to 10 kw  
 1330 CX40 Radio Fénix plans to broadcast 24 hours with 5/1 kw  
 1370 CX42 Emisora Ciudad de Montevideo, apparently a new name for R. Vanguardia  
 1450 CW145 Radio Arapey is probably off the air  
 1460 CW46B Liceo de Dolores is off the air  
 1460 CW146 Liceo de Castillos is off the air  
 1490 CX48 Radio Acuario inactive after the death of its director  
 1560 CW51 Radio Maldonado 1000-0400 from April to November, 24 hours rest of the year.

Power of the three stations in Rivera is to be increased. The three are CX144-1445, CW43B-1430, and CW158-1580. (Arctic, 9/8/78)

CW1-540 Radio Colonia is the only non-Buenos Aires station which can be heard without special effort by the common listener in Buenos Aires. The manager is an Argentinian and its programs are prepared especially for the Argentinian audience. (Arctic, 11/17/78)

#### VENEZUELA

540 YVUR La Voz de Codesur ex Radio Codesur  
 540 YVOK Radio Perijá ex YVOV. 1000-0400 with 60 kw  
 590 YVKL Radio Continente has been closed by the government, but the station says they will stay on the air despite the government decision.  
 720 YVOE R. Visión Oriente now uses 100 kw  
 780 YVOD Ecos del Torbes now uses 50 kw  
 830 YVLT Radio Sensación will increase power to 100 kw  
 890 YVLW Radio América now broadcasts 24 hours  
 980 YVTB Radio Exitos ex Exitos Novcientos Ochenta  
 1040 YVON Radio Los Andes seems to be the correct name, not Radio 1040  
 1170 YVQV Radio Acarigua now uses 20 kw  
 1190 YVRE Radio Barinas now uses 20 kw  
 1240 YVLIQ La Voz de la Victoria, ex La Radio  
 1290 YVLF Radio Puerto ex Radio Puerto Cabello  
 1380 YVJC Radio Fantasia ex Radio Independencia  
 1500 YVZB Radio Nacional de Venezuela ex Radio Politécnico

The new 1000 kw station will be operating by mid-1979 on 880 khz from the Peninsula de Paraguana, Coro, Falcon State. The station will be installed by the government owned Voice of Venezuela, and will be beamed toward the Caribbean and the Andean Pact countries in Dutch, English, French, Portuguese, and Spanish. (NZDX, Arctic, and SCDX)

## New Antenna at 4VEH

On July 4, 1979, Radio Station 4VEH, Cap Haitien, Haiti, began regular test transmissions on 1595 kHz using a new experimental skywave antenna and a converted 1000 watt Collins Amateur Transmitter. The antenna, which can be called a lazy-quad, is a cubical quad 154½ feet on each side positioned to beam nearly vertically with an 11° tilt toward 195° from true north to favor coverage of Haiti on the first skip. About 60 feet below the active element is a slightly larger quad reflector. The quad antenna and reflector are held up by four 120-foot steel towers, each with a base insulator and nylon guying cables.

Radio 4VEH will be conducting skywave radio tests on 1595 kHz during the rest of 1979 and the first half of 1980. They are very interested in receiving individual reception reports and monitors' reports of reception during the entire test year. A special QSL card will be sent to verify all correct reception reports. Monitors will receive the QSL in response to their first report, then the monthly skywave test verification for all monitors' reports at the completion of the test transmissions in July 1980.

4VEH's Radio Skywave is scheduling English and Spanish on Sundays 0500-0900 and 1200-2100 EST (1000-1400 and 1700-0200 GMT). French and Creole broadcasts are scheduled for the rest of the week Monday through Saturday between 0500 and 2100 EST (1000-0200 GMT). There may be some additional hours of tests and this schedule is subject to change. Changes will be announced at the end of our regular news broadcasts in English at 0700 EST (1200 GMT) Monday-Saturday. Listen on 1035, 9770, & 11835 kHz.

If you wish to participate in the skywave radio tests and receive the special QSL card, send reports to: 4VEH - Radio Skywave, Box 1, Cap Haitien Haiti, West Indies. Monitor's reports for those reporting regularly during the test year should be sent to this special address: 4VEH - Radio Skywave, Box 1939, Port-au-Prince, Haiti. (Reprinted from the October, 1979, SPEEDX bulletin. Retyped by bp.)

# ATLANTIC LOGGINGS

Editor's note: On November 23, 1978, most European and African stations changed to a new frequency plan. Some stations were late in moving to their new channels and most of the rest moved only one kilohertz higher in frequency. As a result we have listed all stations on the frequency they were actually heard on. For loggings dated before 11/23/78, the stations are most likely now operating one kilohertz higher in frequency.

- 155 WEST GERMANY, Donebach, 250 kw. will be increased to 500 kw. later. (Arctic 12/15)
- 209 WEST GERMANY, München, Deutschlandfunk. 20 kw., will be increased to 500/250 kw. later. (Arctic 12/5)
- 250.95 ALGERIA, Tipaza, 0450 4/21, noted w/chanting, OM at 0459, then pips and into FF. Really strong and clear at tune in, faded somewhat at 0500 and gone by 0514, obviously LSR peak. (Foxworth, NY)  
+Radio Algiers carries EE 2000-2030 and SS 2030-2100. (SCDX 11/7)  
+1500 kw. French Net 0500-1700 and 750 kw. 1700-0500. (MWN 12/78)
- 254 FINLAND, Lahti, 200 kw., Finnish program. (SCDX 12/5)
- 272 CZECHOSLOVAKIA, Topolna, 1500 kw. became fully operational on 11/15. CSSR built the transmitter, but the USSR designed the aerial system. (Arctic 12/5)
- 520 WEST GERMANY, Hof and Wurzburg remain here; Passau is now on VHF. (MWN 12/78)
- 520 WEST GERMANY, Hanover. //593, 575 w/AN program 2310 5/30/78. (Hall-Patch, ENGLAND)
- 526.5 GREAT BRITAIN, London. TT w/announcement of BBC test. Apparently is going to be a traffic jam warning system in London. Heard during day 6/1/78. (Hall-Patch, ENGLAND)
- 
- 529 ALGERIA, Ain Beida, poor w/AA moaning o/u storm noise 0334 6/4. (Connelly, MA)  
+In noise, seemingly //stronger 548; SAH present 0029 8/25. (Connelly, MA)  
+Fair o/mains buzz w/male a capella AA chant //548 0040 10/23. (Connelly, MA)  
+W/man in AA 2351 11/20. (Connelly, MA)  
+Still here, weak 2359 12/7, nothing noted on 531. (Connelly, MA)  
+0514 2/4, excellent (monster signal) w/male a capella AA chant. Nothing on 531 except 529 slop. (Connelly, MA)  
+2213 2/10, weak w/OM in AA. (Connelly, MA)  
+0001 2/13, fair w/OM in AA. (Connelly, MA)
- 531 EAST GERMANY, Leipzig and Greifswald, DDR 1. (SCDX 12/5)  
+Radio DDR Messewelle, Leipzig is not quite sure whether they will use 531 because it has too good coverage. Possibly they will use the old 10 kw. transmitter from 529 on 558. (Arctic 12/5)
- 531 SWITZERLAND, s/off 1800, ex 529. (MWN 12/78)
- 531 UNID, 0046 2/21, weak carrier w/SAH. (Connelly, MA)
- 539 UNID, 0515 2/4, het noticed--Libya? (Connelly, MA)  
+Maybe Libya, occasional African or AA sounding mx and screaming, mostly just het, 2355 8/24. (Connelly, MA)  
+0502 3/11, het on CBT-540, no audio. (Connelly, MA)
- 540 BELGIUM, Waver-Tombeek, 150 kw, BRT-1 (ex 926) will be overhauled to begin here in 1979 with BRT-2 program. (Arctic 12/5)
- 540 FINLAND, Oulu, 10 kw, Finnish program. (SCDX 12/5)
- 540 IRELAND, Connemara, Radio Na Gaeltachta. (SCDX 12/5) Carrace 2 kw. (MWN 12/78)
- 543.5 GREAT BRITAIN, Lichfield airbeacon, "LIC" code repeated over and over during day 6/1. (Hall-Patch, ENGLAND)

- 548 **ALGERIA**, Oran, w/YL announcer in AA and AA instrumental mx 2247 5/30. 4 pips on hour, last one extended. West Germany tentative in null w/GG talk but no ID. (Hall-Patch, ENGLAND)  
 +Fair w/male AA chant and flute 2335 10/22. (Connelly, MA)  
 +Fair w/AA violins 0114 10/27. (Connelly, MA)  
 +Good w/woman in Arabic 2310 11/15. (Connelly, MA)  
 +Still on old channel 0030 11/23 and 2252 11/24 when good w/man in AA. (Connelly, MA)  
 +Poor in slop w/AA mx 2342 12/11. (Connelly, MA)  
 +0055 12/19, w/AA moaning, fair. (Connelly, MA)  
 +0304 1/22, poor w/chanting in heavy 550 slop, also 0347 1/28 w/AA talk. (Connelly, MA)  
 +0504 2/3, still here on 548, despite reports to the contrary; AA male vocal, fair. 0527 2/4, big signal, AA wailing //529. (Connelly, MA)  
 +0003 2/13, to good peaks w/talk, then AA type guitar mx. (Connelly, MA)  
 +0442 2/24. Fair w/YL AA chants. (Connelly, MA)  
 +0031 3/11, fair w/AA violin mx, low audio level. (Connelly, MA)  
 +0225 3/31, poor-fair w/flute mx, OM chants. (Connelly, MA)  
 +0011 4/19, fair w/usual AA moaning. (Connelly, MA)  
 +0434 5/20, good w/moaning and chants at low modulation level. (Connelly, MA)  
 +0412 5/26, very good w/OM AA choral chants. (Connelly, MA)
- 549 **WEST GERMANY**, Thurnau (20) will be increased to 200 kw in 1979. Nordkirchen (100) will be completed in January 1980, they hope. (Arctic 12/5)
- 558 **FINLAND**, Helsinki, Finnish program (100 kw). (SCDX 12/5)
- 575 **ALGERIA**, Bechar, fair w/AA mx //548 0406 6/3. (Connelly, MA)  
 +At noise level w/occasional moaning 0015 8/27. (Connelly, MA)  
 +0035 3/11, strong carrier o/SAH; SAH likely caused by Costa Rican. (Connelly, MA)
- 584 **SPAIN**, Madrid, RNE, direction and language were correct 2232 5/30. Strong steady signal. (Hall-Patch, ENGLAND)  
 +Good (WEEI-590 nulled); folk mx, then woman in SS 0308 6/3. (Connelly, MA)  
 +In w/good carrier, mx program in WEEI-590 slop 0055 7/30. (Connelly, MA)  
 +Barely making it by WEEI-590 slop and TVI on 582; SS talk by man, poor 0014 8/27. SS mx, weak, 0324 8/28. (Connelly, MA)  
 +Fair in slop w/soft mx 0049 9/17. (Connelly, MA)
- 585 **SPAIN**, Madrid, noted w/SS pop mx, badly thrashed by WEEI/CMW-590 0428 11/24. (Connelly, MA)  
 +500 kw, program 1. (Arctic 12/5)  
 +0448 2/10, w/SS pop-rock mx. (Connelly, MA)  
 +0030 3/11, poor w/opera program, possibly //738, also 0449 fair w/SS OM vocal. (Connelly, MA)
- 611 **MOROCCO**, Sebba-Aioun, good w/fast AA male vocal w/violins 0323 8/18. Man in AA loud, jamming 610, 0023 8/25. (Connelly, MA)  
 +Very good w/spirited AA flute and violin mx; WGIR-610 nulled 0129 9/28. (Connelly, MA)  
 +Fair-good w/male AA chants 0052 10/13. (Connelly, MA)  
 +Excellent w/Near East instrumental mx interspersed w/AA YL talk 0116 10/27. (Connelly, MA)  
 +Strong w/news by man in AA 2311 11/15. (Connelly, MA)
- 612 **MOROCCO**, Sebba-Aioun, good w/AA violin mx and female vocal 2253 11/26. (Connelly, MA)  
 +Poor-fair w/AA mx in heavy 610 slop 2256 12/5. (Connelly, MA)  
 +Excellent w/AA violins 2339 12/11. (Connelly, MA)  
 +12/19 0047, good w/AA violins and vocals. (Connelly, MA)  
 +0017 1/18, poor-fair w/chanting, heavy WIP-610 slop. (Connelly, MA)  
 +0300 1/22, good w/march mx, carrier dropped off at 0301, also 0225 1/23 w/OM wailing and violins, WGIR-610 nulled. (Connelly, MA)  
 +0501 2/3, good-excellent w/AA moaning o/CHNC-610 slop. (Connelly, MA)  
 +2323 2/10, loud w/AA group vocal mx. (Connelly, MA)  
 +0007 2/13, strong RF level w/AA wailing; audio clarity only fair due to slop. (Connelly, MA)  
 +0445 2/14. Fair w/OM in AA. (Connelly, MA)  
 +0027 3/11, good w/YL chants, also excellent at 0507 3/11, w/OM AA moaning. (Connelly, MA)

- +0013 3/19, in fair w/carrier; audio (OM in AA) garbled by 'buzz' from street lights. (Connelly, MA)  
+0437 5/20, excellent w/YL in AA. (Connelly, MA)
- 620 BELGIUM, Wavre-Overijse. OM in FF ID'd by IS at 1600 6/8/78.  
(Hall-Patch, ENGLAND)
- 621 CANARY ISLANDS, Santa Cruz, 0255 1/22, suspected during low latitude opening w/SS operatic vocals, briefly loud and clear of slop, fading to a loud het against 620 mess by 0300. Het often noted, sometimes only TA signal heard besides 765 and 1404 Africans. (Connelly, MA)  
+0450 2/24, poor w/YL vocal, then OM in SS. (Connelly, MA)
- 629 UNIDS, at least two but no IDs possible as straight mx 6/1/78.  
(Hall-Patch, ENGLAND)
- 630 WEST GERMANY Danneberg, NDR. (SCDX 12/5) Uses 10 kw, will increase to 100 kw in 1979. 0500-1700. (Arctic 12/5)
- 633.5 GREAT BRITAIN, Lambourne. Airbeacon "LAM" in code over and over.  
(Hall-Patch, ENGLAND)
- 638 SPAIN, La Coruña, fair w/classical mx, SS talk, then old time movie mx 0044 10/23. (Connelly, MA)  
+Poor w/SS talk 2310 2310 11/10.
- 639 SPAIN, synchros, het on WHLO/CBN-640 2257 12/5. (Connelly, MA)  
+2337 2/9, poor w/bits of SS talk, mostly just a het on CBN-640. (Connelly, MA)  
+0410 5/26, het, bits of SS mx, vs. 640 Latin mess. (Connelly, MA)
- 647 GREAT BRITAIN, Daventry, good o/feeble 650 het; EE commentary by man 2352 11/20. (Connelly, MA)
- 648 GREAT BRITAIN, Orfordness, suspected w/pop female vocal, poor 0425 11/24.  
(Connelly, MA)  
+2226 2/10, fair w/OM in EE o/1.2 Hz SAH and trace of second audio (Gambia?)  
(Connelly, MA)
- 657 WEST SAHARA, Laayoune, 2340 1/31, AA male and mx, strong carrier, poor modulation; 2400 s/off. (Bailey, MA)
- 665 PORTUGAL, Lisboa, very good w/Space Odyssey theme, man in PP, more instrumental mx 0340 10/16. (Feltman, PA)  
+Good w/man in PP 0302 6/3. (Connelly, MA)  
+Fair o/u noise; romantic PP female vocal 0327 8/28. (Connelly, MA)  
+Fantastic signal after WNBC-660 s/off 0500 9/25 w/nx by YL good till WNBC OC/TT 0530. (Straus, NJ)  
+Suspected here w/talk by two announcers 0120 10/27. (Connelly, MA)  
+PP talk o/brutal WNBC-660/WRKO-680 splash 2306 11/10. (Connelly, MA)  
+Faint carrier from northeast 11/19 0645-0700 was my first hint that this sorry DX season might be relenting a bit in the TA category. The Lisbon carrier was able to generate a BFO whistle only at the times when WNBC-660 signal next door had built up to a good level. During the WNBC fades, not even the BFO could raise anything on 665. WNBC was varying widely this period but was not really good even on peaks. A-index was 5. It was much the same story 11/20 when Lisbon carrier was first noted 0552 and stronger than the previous night, although audio portions were too far down in the hash to warrant taping them. A-index again 5. Lisbon carrier only noted as late as 0724 11/20. Tried again 11/21 but A-index was up to 20 and there was nothing to report in the European Department. (Martin, CO)  
+Still on old channel, good w/PP talk o/weak 666 het (Germany?) 0401 11/24. (Connelly, MA)  
+Still here as of 11/29. (Hutton, GA)
- 666 PORTUGAL, Lisboa, carrier in WNBC-660/WRKO-680 splash, nothing on 665 2259 12/5. (Connelly, MA)  
+Most likely source of good carrier in slop 0219 12/9 w/occasional snatches of audio, including talk by man. (Everitt, OK)  
+0021 12/31, good w/OM and YL in PP talk then mx. (Connelly, MA)  
+0511 2/3, poor-fair w/male choir mx. (Connelly, MA)  
+2228 2/10, presumed w/soft mx, fair in WNBC-660 slop. (Connelly, MA)  
+0416 5/26, carrier in bad slop. (Connelly, MA)

- 666 WEST GERMANY, Rohrdorf, off the air Thursdays 2310-0000. 300 kw at night to protect Athens and Vilnius. May operate with 150 kw in 1979. Tests now taking place. (MWN 12/78)
- 674 HOLLAND, Lopik III. Variety of programs in DD 6/1/78. Hot rock at night, heavier than FM rock in North America. (Hall-Patch, ENGLAND)
- 683 UNID, European here 0311-0315 11/20. The carrier was able to put a het on KNBR-680, but no audio could be heard. (Martin, CO)
- 684 SPAIN, Sevilla, RNE, poor in WRKO-680 buckshot w/SS talk 0604 11/24.  
(Connelly, MA)  
t probably the source of good sized carrier in very heavy slop 0212 12/9, looping around 60°. (Everitt, OK)  
+0304 12/17, excellent w/SS OM, guitar mx, YL host. (Feltman, PA)
- 684 YUGOSLAVIA, Belgrade, 0426 2/19, violin and flute mx; OM announcer, slavik language; 66 dB over noise. (Bailey, MA)
- 692 GREAT BRITAIN, Radio 4 synthros, fine signal days. 6 pips on hour.  
(Hall-Patch, ENGLAND)
- 693 GREAT BRITAIN, BBC 2231 2/10, fair w/YL in EE, then show tunes. (Connelly, MA)
- 701 ANDORRA, mellow pop mx, II or SS sounding vocal, poor-fair 2347 8/26.  
(Connelly, MA)  
+W/apparent FF talk by woman o/u AA mx from Sebaa-Aiouin 11/10. (Connelly, MA)
- 701 MOROCCO, Sebaa-Aiouin, loud, wasting WLW-700; typical yelling and chanting 2312 11/15. (Connelly, MA)
- 702 MOROCCO, Sebaa-Aiouin, likely w/vocal mx briefly through slop, mx possibly AA, 2326 11/24. (Connelly, MA)  
+To fair peaks w/AA mx and talk 2301 12/5. (Connelly, MA)  
+To good peaks w/AA yelling and singing 2347 12/11. (Connelly, MA)
- 702 UNID, 0440 5/20, Morocco suspected; strong OC, o/second station w/bits of weak audio. (Connelly, MA)
- 711 FRANCE, Rennes, 2220 12/28, FF OM/YL in light song. OM announcer. (Bailey, MA)  
+0646 2/18, o/WOR-710 slop; w/OM in FF. (Connelly, MA)
- 711 UNID, Morocco or France possible--het getting loud, still too much YVKY/WOR-710 interference 0608 11/24. (Connelly, MA)
- 719 PORTUGAL, Norte, Radiodifusao Portuguesa ID's 2300 5/31/78. 4 long pips, one short pip (all the same pitch) then nx. Good steady signal.  
(Hall-Patch, ENGLAND)  
+Fair o/WOR-710 slop. PP talk by woman, then interlude of piano mx 0326 8/18. Good w/man in PP 0003 8/25. (Connelly, MA)  
+Fair w/man in PP 2240 10/15. Good w/female PP rock vocal, then talk and romantic mx atop station sending beep tones 2307 10/22. (Connelly, MA)  
+Good on peaks w/nx by man in PP 2204 10/27. (Connelly, MA)  
+Superloud w/male folk vocal, feeble YVOE/WGN-720 het in background 2313 11/15. (Connelly, MA)  
+Good w/man in PP, then pop rock mx, still on old channel 2329 11/24. (Connelly, MA)  
+Still on old channel w/"The First Time Ever I Saw Your Face" by Roberta Flack 2307 12/5. (Connelly, MA)  
t +0009 1/18, talk by OM/YL, poor in WGN-720 slop. (Connelly, MA)  
+0017 1/28, suspected here, poor in slop w/OM YL in apparent PP. (Connelly, MA)  
+2334 2/9, still on 719, slamming in w/PP talk, instrumental mx, interludes between talk. (Connelly, MA)  
+0013 2/13, in w/massive carrier, shallow audio; PP sports event. (Connelly, MA)  
+2224 2/20, good on car rx, w/flute jazz, 720 het was Sfax or YVOE. (Connelly, MA)  
+0011 3/4, good w/ OM in PP. (Connelly, MA)  
+0024 3/11, fair w/OM/YL in PP, mx interspersed. (Connelly, MA)  
+0009 3/19, to good peaks w/excited PP shouting by OM (political speech?), then calmer talk by second OM in studio. (Connelly, MA)  
+0028 4/19, present as het only. (Connelly, MA)  
+0408 5/26, fair-good w/PP talk. (Connelly, MA)

- 720 WEST GERMANY, Langenberg will be on the air regularly from 6/1/79.  
(Arctic 10/8)
- 728 PORTUGAL, Mirandela 2215 2/19, PP OM reading numbers //719 which was, as usual,  
booming in. (Bailey, MA)
- 728 SPAIN, Oviedo/Malaga, //737 w/modern classical mx 0123 10/27. (Connelly, MA)
- 729 SPAIN, various, 2333 2/9, to good peaks w/pop mx. OM SS talk. (Connelly, MA)  
+0017 2/13, to good peaks w/program of Van Morrison records, //774.  
(Connelly, MA)  
+2210 2/18, RNE program, 300 Hz. het. (Bailey, MA)
- 729 ? UNID, strong het on nulled CKAC-730, still too much CKAC buckshot to allow  
audio on 729. Iberian peninsula area suspected due to low-latitude nature of  
the TA opening 2309 12/5. (Connelly, MA)  
+0007 1/18, bits of soft mx. (Connelly, MA)  
+2347 1/27, Spain suspected, bits of talk, loud het. (Connelly, MA)
- 737 SPAIN, Barcelona, RTVE, poor in noise w/apparent classical mx 0048 7/30.  
(Connelly, MA)  
+Poor-fair w/soft mx 0120 8/23. Female operatic vocal at low audio level on big  
carrier 2354 3/26. (Connelly, MA)  
+Presumed w/fair carrier 0215-0230 9/17. Carrier also noted on 854.  
(Eckman, PA)  
+Fair w/man in SS 2308 10/22. Excellent w/big-band jazz 0052 10/23.  
(Connelly, MA)  
+Fair o/CBL-740 slop; modern classical mx 0123 10/27. (Connelly, MA)  
+Fair-good w/SS talk 2308 11/8; 728 heard weakly, apparently //737. Loud  
w/man in SS, then musical interlude followed by clear ID "Esta es Radiotele-  
vision Espanola", after that nx by man & woman in SS 2300 11/10.  
(Connelly, MA)
- 738 <sup>t</sup> SPAIN, Barcelona, RTVE, very tentatively the carrier noted here w/no audio  
0445 12/9. (Eckman, PA)  
+Fair w/apparent political speech in SS, CBL-740 nulled 2354 12/7.  
(Connelly, MA)  
+0625 12/28, assumed w/good carrier, fast SAH also noticed. (Eckman, PA)  
+0008 1/20, fair-good w/OM in SS. (Connelly, MA)  
+2242 2/10, poor w/bits of SS talk in CBNM-740 slop. (Connelly, MA)  
+2357 2/17, poor w/talk in bad buzz/TV birdy. (Connelly, MA)  
+0021 3/11, poor to fair w/YL operatic vocal. (Connelly, MA)  
+0030 4/19, poor w/female vocal group. (Connelly, MA)
- 738 ? UNID, 0530-0735 3/16, ranging from just a het to carrier and audio 0705. OM  
in unID language 0706 (w/tape off, of course!) (Murphy strikes again-es).  
This followed by quiet mx through at least 0712. Looped very roughly east/west  
(90°-270°). Carrier lost at 0735 which is very conveniently Papeete's s/off  
time. Did any WC'ers note Tahiti this AM or is this a new wandering Latin  
American that I wasted 2 hours on? (Eckman, PA) (Rich, I'd have to guess TA  
for the moment, 0730ish would also be about fade out time for the last TA's.  
Keep at it though, see what else you can get on 'em--es)
- 746 <sup>t</sup> HOLLAND, Lopik II. Sounded like DD. 6 short pips on hour 1800 6/3/78.  
(Hall-Patch, ENGLAND)
- 746 SPAIN //737 2344 6/1/78. This w/Lopik II nulled. (Hall-Patch, ENGLAND)
- 746 <sup>t</sup> UPPER VOLTA, Ouagadougou, suspected here briefly showing w/carrier and weak  
audio looping Africa 2327 10/22. (Connelly, MA)  
+Good carrier level, native mx at low modulation level 2211 10/27.  
(Connelly, MA)  
+On old channel. African talk at weak audio level on big carrier, some YVKS-750  
splatter 2336 11/24. (Connelly, MA)  
+Still here, weak 2313 12/5. (Connelly, MA)  
+Fair w/FF sounding talk o/747 European het 2325 12/11. (Connelly, MA)
- 746 ? UNID, carrier and fast SAH. Dominant signal looped north Europe, so  
probably Holland. It had man and woman announcing team, audio not clear  
enough to determine language. 2315 11/10. (Connelly, MA)

- 747 BULGARIA, Petrich 0355 2/19, OM announcer in Slavic language; one time pip at 0400. (Bailey, MA)
- 747 UPPER VOLTA, Ouagadougou 12/20 2257, finally moved. FF talk and African mx, Fair-. (Connelly, MA)  
 +2325 2/9, in w/good carrier, weak audio, OM in FF. 2244 2/10, poor w/drumming and native vocal badly slopped by WHEB-750. (Connelly, MA)  
 +2340 2/15, native rhythmic mx; FF OM announcer; IS w/marimba sounding instrument (Balafon). S/off w/NA at 0002. Not //4815 at this time. (Bailey, MA)
- 755 PORTUGAL, Lisboa, very good w/woman in PP, some WHEB-750 disco-slop 0006 8/25. (Connelly, MA)  
 +In mains noise w/piano mx 2323 9/17. (Connelly, MA)  
 +Very good w/classical mx 2309 10/22. (Connelly, MA)  
 +Bombing in like a local w/opera 2315 11/15. (Connelly, MA)
- 756 PORTUGAL, Lisboa, very good w/female operatic vocal. Easier to hear now (separable from TVI on 755). 2315 12/5. (Connelly, MA)  
 +Noted as weak carrier most of monitoring period; w/occasional mx and talk around 0024 12/10. Mx sounded like light classical or MoR. (Everitt, OK)  
 +Noted w/male operatic vocal o/SAH flutter 2334 12/11. (Connelly, MA)  
 +0026 12/31, w/opera. (Connelly, MA)  
 +0005 1/18, to fair peaks w/classical mx, o/u WJR-760 slop. (Connelly, MA)  
 +2324 2/9, fair-good w/soft classical piano mx then talk by YL, o/TV het. (Connelly, MA)
- 756 ROMANIA Lugoj 0352 2/19, non-descript mx, OM in Germanic language; shallow modulation. (Bailey, MA)
- 756 ? UNID, station mixing w/Portugal here, audio garbled by fast SAH. (Connelly, MA)
- 764 SWITZERLAND, Sottens, 6/3/78 2200 w/OM in FF. "R. Suisse Romande" ID w/IS. (Hall-Patch, ENGLAND)
- 765 SENEGAL, Dakar, poor-fair w/weird moaning 0011 6/4. (Connelly, MA)  
 +Good w/mellow African vocal harmonies and man in FF 0037 6/25. (Connelly, MA)  
 +Superloud, w/African mx similar to Latin American mx 0028 7/30. (Connelly, MA)  
 +AA wailing by OM all alone on frequency 0620 8/7. No sign of YSKL at all. Well-defined w/fair carrier. (Baskind, MS)  
 +Good w/jazz-style native mx and vocal 2328 8/21. Vernacular talk by man, mx fair in noise 2335 8/26. (Connelly, MA)  
 +Excellent w/flute mx 2237 9/16. (Connelly, MA)  
 +Outstandingly loud during a period of almost no low-band domestic skip. AA talk, then native vocals and strings 2356 9/26. (Connelly, MA)  
 +Fair w/AA sitar-like mx 0625 10/11. (Thomas, FL)  
 +Briefly up to strong level, hammering WABC-770 on car radio; AA chanting 2345 10/12. (Connelly, MA)  
 +Excellent w/male AA chanting during otherwise mediocre cx 2336 10/19. Loud w/AA talk by woman 2256 10/22. (Connelly, MA)  
 +Loud w/FF talk, native mx, TC in FF, 2200-2201 10/24. Cx not really "prime" as stations to the west fading in as soon as TAs showed. Normally the TAs have an hour at sunset of low-level interference. Excellent w/a-capella AA chanting 2143 and FF talk 2212 10/27. Loud w/disco 2226 10/28. Blasting in on TRF w/rhythmic Latin American style mx, loudest TA, 0022 10/29. (Connelly, MA)  
 +Good w/native mx 2205 11/3. Loud w/African vocals 0623 and at usual potent level w/AA mx 2126 11/4. (Connelly, MA)  
 +Fair w/male AA vocal 2301 11/7. AA talk at local strength, bombing out adjacent domestics on car radio in Belmont 2240 11/10. (Connelly, MA)  
 +Noted as a carrier only 0601-0606 11/10, then faded. Returned 0616 w/male chanting in AA, soon peaking to what was perhaps the best audio I've heard from them. YL w/talk began around 0622. Still there 0637 w/talk by deep voiced man. Loop bearing was "eye-balled" at about 75° (actual bearing is 69°). (Portzer, WA)  
 +Weak-good carrier here 0610 11/10, looping east-northeast. Too much 770/760 splatter for PFM or audio if there was any. No sign of anything on 1403 at this time, however. (Hall-Patch, BC)  
 +After phone tip from bp, noted OM here w/monotone talk 0618 11/10 and YL talk 0625. (Bytheway, WA)  
 +Its first appearance of the season 11/20 0600-0610; Dakar format apparently hasn't changed in years. 0600-0605 is AA talk, probably nx. Muezzin begins calling the faithful at 0605 and this goes on until near 0630 when other stuff begins to take over. Dakar's first appearance is usually in August here. (Martin, CO)

+Excellent w/native group singing, stronger than WABC-770 2120 11/23. Fair w/man in AA 2339 11/24. (Connelly, MA)  
 +Fair in WABC-770 interference 2300 12/3. (Connelly, MA)  
 +To good peaks w/flute mx 2316 12/5. Peaking up well o/slop w/a capella AA male chant 2352 12/7. (Connelly, MA)  
 +Fair w/odd mx and presumed AA talk 0021 12/10. Again w/very good signal and AA talk by quiet voiced man 0653 12/11. Monotonous instrumental mx 0659, 0700 announcements by woman smothered by sudden onslaught of WJR-760 slop, this followed by more drums and more AA by woman, then man. (Everitt, OK)  
 +Fair w/native instrumental mx 2323 12/11. Good w/native mx 2304 12/16. (Connelly, MA)  
 +0625 12/18, w/slight audio, OM in unID language. Carriers also noted 2303 12/9, 0505 12/20. (Cartwright, PA)  
 +0734-0740 12/19, carrier only, overlapping New Zealanders on 756. (Martin, CO)  
 +2337 12/31, excellent, like a local, w/kalimba mx, YL screaming, 2142 12/30, good w/FF talk. (Connelly, MA)  
 +2255 12/20, w/native wailing and plucked strings, louder than WJR-760, WABC-770, also 0035 12/19 w/repetitive drumming and wails. (Connelly, MA)  
 +0620 12/8, 0557 12/9, just a carrier. (Hall-Patch, BC)  
 +2343 1/5, good on TRF w/AA preaching. 2244 1/6, fair to good w/male chants during semi-auroral ex. (Connelly, MA)  
 +0013 1/9, loud w/usual plucking resembling a toy ukelele. 2322 1/10, fair w/OM in AA, possibly Koran reading. (Connelly, MA)  
 +2359 1/17, fair w/YL in FF. 2100 1/20, carrier only, well before local sunset. (Connelly, MA)  
 +2247 1/24, little else noted TA-wise at this time. African mx, then electronic rock talked over by announcer in unID language, Dakar mention. (Connelly, MA)  
 +2215 1/31, loud on car rx w/AA talk. 0607 2/3, ultra-loud w/male a capella chant. (Connelly, MA)  
 +0555-0620 2/3, tone at 0444, mx at 0557, anthem at 0559. YL talk in FF 0600 followed by OM chanting at 0605, faded by 0620. (Krueger, TX)  
 +2317 2/5, very good w/plucked string mx. 2230 2/9, fantastic local signal reducing WABC-770 to a pitiful background het, on car radio at salt marsh, w/AA talk. 2130 2/10, loud on car radio at West Dennis beach well before sunset. (Connelly, MA)  
 +2225 2/22, to good peaks on car rx o/WABC-770 interference, w/usual wailing. (Connelly, MA)  
 +0014 3/4, poor-fair w/repetitious native mx similar to disco. (Connelly, MA)  
 +2229 3/8, loud w/drum-beating. (Connelly, MA)  
 +2311 3/15, fair w/group chant, then OM in AA. (Connelly, MA)  
 +0001 3/29, poor-fair w/OM, YL in FF. (Connelly, MA)  
 +2323 4/4, weak w/talk. 0703 4/8, loud w/OM in FF. (Connelly, MA)  
 +0547 4/21, strong w/OC before s/on--local level, best TA. (Connelly, MA)

765 <sup>t</sup> USSR, Odessa, 0430 2/19, guttural talk w/OM announcer, snatches of polka type mx. (Bailey, MA)

773 SPAIN, Caceres, RNE ID 2201 6/3/78, then nx in SS. (Hall-Patch, ENGLAND)

773 <sup>?</sup> UNID AA, possibly the Egyptian here w/AA chants often atop the Spaniard (which had SS talk by man). Signal to good peaks 2320 11/10. The two stations were nearly zero-beat--SAH about 0.1 Hz; Spain rose atop to potent level by 2322. (Connelly, MA)

774 <sup>t</sup> MOROCCO, 2336 12/31, new outlet suspected here, loud w/AA YL vocal, strings, atop Spain SAH. (Connelly, MA)

774 SPAIN, Valencia et al, good w/man in fast SS 2347 11/24. (Connelly, MA)  
 +0023 1/20, dominant w/SS talk, light jazz, WABC-770 slop. (Connelly, MA)  
 +0022 2/2, SS mezzo soprano w/torrid Andalusian songs. (Bailey, MA)  
 +2318 2/9, very good w/SS talk by several announcers o/OC, fast SAH present. 2201 2/10, dominant w/SS nx. (Connelly, MA)  
 +0019 2/13, //729. (Connelly, MA)  
 +2320 2/18, 10 hz SAH; unID station underneath (probably Morocco). (Bailey, MA)  
 +0105 2/21, fair w/SS nx, then RTVE IS. (Connelly, MA)  
 +0006 3/19, poor w/SS talk, above mains buzz/WABC slop only 25% of the time. (Connelly, MA)

774 <sup>?</sup> UNID, either Spain or Morocco most likely, looping roughly 60°, weak-fair carrier 0010 12/10. Seemed to be running TT 0017 w/improved signal. At least two stations noted here 0702 12/11 in fast SAH w/each other. Carriers also noted on 666/738/1206/1295/1593. (Everitt, OK)

+Big OC o/suspected Spain, fast SAH resulting. It seems quite probable that Morocco is testing here. Reception 0635 12/10. (Connelly, MA)  
+Heavy OC atop Spain (Spain had man in SS), fast SAH resulting 2351 12/7. Frequency was dogged by WABC-770 splatter. New Moroccan listed for this channel may have been testing. (Connelly, MA)  
+Awesome OC again noted o/Spain (which had SS talk) 2349 12/11. (Connelly, MA)

782 <sup>t</sup> EAST GERMANY, Burg, definite GG announcer and rock mx 2155 6/3/78. Tuned back for nx 2202, then into stuff on World Cup. (Hall-Patch, ENGLAND)

782 PORTUGAL, Miramar, fair w/disco-rock w/female vocal, then man in PP 0048 8/23. Talk by man and vocal by woman good despite noise 2356 8/26. (Connelly, MA)  
+Fair w/woman in PP 2322 9/17. (Connelly, MA)  
+Very good w/pop-rock, then man in PP 2325 10/22. (Connelly, MA)  
+To good peaks w/operatic production; mediaeval trumpets and PP folk vocals 0130 10/27. (Connelly, MA)  
+Outstanding, like a local utterly demolishing 780; several 1964-era Rolling Stones album cuts, then man in PP 0127 11/21. (Connelly, MA)  
+Still on old channel 0030 11/23. Still on 782, to good peaks w/PP male vocal; WBBM-780 nulled 2353 11/24. (Connelly, MA)  
+0031 12/31, on old channel w/mx, poor in bad ZBV1/WBBM-780 slop. (Connelly, MA)  
+Carrier 0625 12/18, also signal on 1034. (Cartwright, PA)  
+2316 2/9, still here, loud w/modern classical violin mx. 2203 2/10, loud w/YL in PP, separable from 783. (Connelly, MA)  
+0001 2/18, fair w/YL in PP; 0648 2/18, fair w/heavy 783 het. (Connelly, MA)  
+0107 2/21, good w/Olivia Newton-John song. (Connelly, MA)  
+0052 3/11, poor--fair o/mains buzz, w/apparent PP talk by OM. (Connelly, MA)  
+0020 3/19, suspected at noise level w/bits of talk. (Connelly, MA)  
+0020 4/20, poor-fair, o/the usual horrendous local noise level; OM vocal noted. (Connelly, MA)

782 SYRIA, Damascus, uses SS at 0030. (SCDX 1484)

782 <sup>?</sup> UNID, carrier here w/nobody on 783. Portugal? 2318 12/5. (Connelly, MA)  
+Carrier in slop, maybe Portugal is back here? Heard 2352 12/11. (Connelly, MA)

783 EAST GERMANY, Burg, 2203 2/10, likely here fair w/jazz, splittable from stronger PP-782. (Connelly, MA)  
+2312 2/18, YL singing several GG songs w/alpine flavor, booming bass accompaniment. (Bailey, MA)  
<sup>t</sup> +0112 2/21, suspected w/OM vocal, possibly part of an opera. (Connelly, MA)

783 <sup>t</sup> PORTUGAL, Miramar, PP sounding folk vocal to fair peaks in WBBM-780 slop. A weaker carrier was noted on 782 2338 12/7. (Connelly, MA)

792 FRANCE, Limoges, 2206 2/10, poor w/classical mx in WEAN-790 slop. (Connelly, MA)  
+2208 2/18, several FF OM's in a show; 2 Hz SAH; s/off at 2300. (Bailey, MA)

800 SPAIN, Madrid, EAJ7 2210 6/3/78 w/World Cup commentary in SS. GG in its null was probably Nurenburg. (Hall-Patch, ENGLAND) (now on 801--ed)

801 <sup>?</sup> UNID, 0550 2/11, het noted. (Connelly, MA)

809 GREAT BRITAIN, Crowborough, BBC World Service in EE, w/nx analysis. 1300 6/3/78. Usually off air in daytime. (Hall-Patch, ENGLAND)

809 GREAT BRITAIN, Scotland, BBC Radio Four synchros 2205 6/3/78. Not audible days. (Hall-Patch, ENGLAND)

809 SPAIN, Sevilla, EAJ5, //800 2210 6/3/78. Nulled Scots Radio Four. (Hall-Patch, ENGLAND)

+Fair through WGY-810 slop w/rock mx, including "Barracuda" by Heart 0547 11/11. (Connelly, MA)

818 ANDORRA, La Vieja, Sud Radio, excellent 0515 9/25 w/pop mx, YL FF announcer, morning type program. (Straus, NJ)  
+Fair w/FF talk 2154 10/24. (Connelly, MA)  
+Loud o/WOSU-820 het on car rx in Boston 2210 11/7. Loud on car rx w/"Macarthur Park" by Donna Summers, then woman in FF 2208 11/9. (Connelly, MA)  
+In w/pop mx, then man in FF o/bad low het 2358 10/15. (Connelly, MA)

- 818 MOROCCO, Rabat, loud w/AA moaning by man 0345 8/18. Good w/AA chanting o/low het, growl, 0016 8/25. (Connelly, MA)  
 +At monster level w/AA violins 0114 9/27. (Connelly, MA)  
 +Fair w/chanting male vocal 0107 10/13. (Connelly, MA)  
 +Very good w/female AA chant o/TVI 0059 10/23. (Connelly, MA)  
 +Noted w/AA violins poor through TVI 2316 11/8. Good w/male AA vocal atop low growl from other stations 2349 11/10. (Connelly, MA)
- 819 ANDORRA, La Vieja, Sud Radio, good w/man and woman in FF, o/several hets 2354 11/24. (Connelly, MA)  
 +0603 2/10, loud w/OM in FF, atop fast Morocco SAH; Morocco dominates after 0605. (Connelly, MA)  
 +0538 3/4, fair w/FF style rural-accordion mx, just o/heavy rumble. (Connelly, MA)
- 819 MOROCCO, Rabat, to good peaks w/AA chanting and guitar mx, usually the dominant in a "het sandwich" w/WBAP-820 and TVI-818 2342 12/7. (Connelly, MA)  
 +0034 12/31, fair-good, w/AA talk. (Connelly, MA)  
 +0005 1/3, w/male AA vocal to fair peaks o/bad 818 TVI. (Connelly, MA)  
 +0027 1/20, fair w/AA moaning. (Connelly, MA)  
 +0240 1/22, excellent on peaks w/AA YL vocal and AA violins, oddly, only a weak carrier on 828. Also, 0237 1/23, loud w/AA violins and YL chants. (Connelly, MA)  
 +0007 2/18, fair w/YL AA vocal; 0650 2/18, loud o/Andorra OM AA chants. (Connelly, MA)  
 +0055 3/11, poor w/YL chant; nulling 818 TVI also nulled 819. (Connelly, MA)  
 +0023 4/20, mostly just a het against 818 TVI, bits of chanting occasionally precipitating. (Connelly, MA)  
 +0020 5/18, poor w/carrier and bits of AA violin mx, wedged between 818 TVI and 820 Latin American mess. (Connelly, MA)
- 819 ? UNID, 0452 5/20, (Andorra or Morocco) fair carrier w/apparent TT. (Connelly, MA)
- 827 MOROCCO, Oujda, carrier/bits of mx 0510 7/29. (Connelly, MA)  
 +Poor w/woman in AA //818, atop tone tester who occasionally let loose w/incoherent code-like sending; storm noise a problem 0335 8/18. (Connelly, MA)  
 +Excellent w/female AA chant //818 0059 10/23. (Connelly, MA)  
 +Loud w/AA violins //weaker 818 2316 11/8. Several other stations on 827 created a SAH jumble u/Morocco. (Connelly, MA)
- 827 ? UNID, meter pegging OC, SAH way under 0010 8/25. (Connelly, MA)  
 +11/20 0324-0330, notable only because it's the first time I have ever detected a signal on this frequency, which is such a hot number back east. Have no idea who it may have been for there was no detectable audio in WCCO slop. (Martin, CO) (probably Morocco--bp)  
 +11/24 and 11/25 evenings. (Hutton, GA)  
 +station still here w/a female operatic vocal o/u 828 het 2354 12/11. (Connelly, MA) (Possibly Libya per Mike McGovern's report of a couple of weeks ago--bp)  
 +2230 2/18, poorly modulated AA, 5 Hz SAH; only one carrier here 2314 (probably Syria and Portugal). (Bailey, MA)
- 828 MOROCCO, Oujda, 0609 2/10, fair w/AA YL vocal mx //819, o/low grumble. (Connelly, MA)  
 +2220 2/18, AA mx, 500 Hz het; 3 Hz SAH. (Probably West Germany and Spain) (Bailey, MA)
- 828 SPAIN, R. Peninsular, Barcelona ex 1178 and R. Juventud, Barcelona, EFJ15, ex 1025 were due to merge into one Radio Cadena Espanol station on either 828 or 1476 with 25 kw. (MWN 12/78)
- 828 ? UNID, 0009 2/18, AA station way under. (Connelly, MA)  
 +0058 3/11, strong OC, Libya? Morocco? (Connelly, MA)
- 829 ? UNID, 2225 2/18, AA talk surfaced at times, some mx; not noticed after 2300. (Sudan??) (Bailey, MA)
- 836 FRANCE, possible FF talk on fair strength carrier in merciless WHDH-850 slop, AA mx seemed to be in there, too--possibly the same station 2318 11/8. (Connelly, MA)

- 836 ? UNID, 0616 2/10, het on 837, w/disco rock mx. (Connelly, MA)
- 837 FRANCE, Nancy, 0616 2/10, fair w/OM and YL in FF, o/raucous 836 het. (Connelly, MA)
- 845 ITALY, Roma, noted w/ID in FF 2230 6/8/78, then nx in FF, part on the AN program. Strong and steady. (Hall-Patch, ENGLAND)  
+In and out of WHDH-850 sloop w/operatic male vocal 0014 7/30. (Connelly, MA)  
+Fair w/nx by man, WHDH-850 nulled 0002 8/27. (Connelly, MA)  
+Assumed w/poor carrier around 0200 9/17. No audio heard. (Eckman, PA)
- 846 ITALY, Roma, strong w/some weak audio, but potent carrier 0308 12/9. No definite ID however. (Eckman, PA)  
+0618 2/10, mx, poor in bad WHDH-850 sloop. (Connelly, MA)
- 854 SPAIN, Murcia, 0525 9/25 fair w/SS OM talk, instrumental mx. (Straus, NJ)
- 855 SPAIN, Murcia, RTVE, 0620 2/10, fair w/jazz, then OM in SS, o/WHDH-850 sloop. (Connelly, MA)  
+2300 2/18, SS OM w/nx, 2 Hz SAH; trumpet fanfare. (Bailey, MA)
- 864 FRANCE, Paris, seemed to be the one here w/man in unid language 0446 12/9 w/fair signal. (Eckman, PA)  
+0621 2/10, good w/OM-YL in FF. (Connelly, MA)  
+0615 2/19, very good w/FF OM talk--nx? (Straus, NJ)
- 872 SPAIN, Zaragoza, loud w/SS talk, then disco mx; heavy 2.7 Hz SAH present 0103 10/23. (Connelly, MA)  
+Man in SS o/u orchestral mx--neither signal impressive, often in sloop 2320 11/8. Fast SAH (about 10 Hz). I think there's an AA station hiding in that mess somewhere. Noted 2352 11/10. (Connelly, MA)
- 872 WEST GERMANY, Frankfurt, AFN, 6/8/78 2240, w/"Brother Bruce from the Funk Factory". Good signal. Spain //827 in its null. (Hall-Patch, ENGLAND)  
+8/24 0114; American announcer w/baseball game. 30 dB o/noise. (Bailey, MA)
- 872 ? UNID, immense OC atop 2.6 Hz SAH. Something new in North Africa? Spain, supposedly on RS, was presumably the weaker signal generating the SAH. Noted 0111 10/13. (Connelly, MA)
- 873 SPAIN, Zaragoza, 2350 2/18, SS OM announcer. (Bailey, MA)
- 873 ? UNID, 0622 2/10, graveyard growl. (Connelly, MA)
- 881 ? UNID, the suggestion of a whistle on the high side of WCBS-880 0706-0711 11/20. Vernier and BFO measured out an interfering signal at 881 and that's all I can say. Had the Cuban nulled to permit WCBS to make it here and display this slight interference from England. Next weekend, expect to hear New Zealand when their frequency becomes 882. (Martin, CO)
- 882 GREAT BRITAIN, 0002 2/19, EE OM w/nx of China, UN, etc. Some SS mx seeped through at times. (Bailey, MA)  
+0653 2/18, possibly EE talk, chewed up by WCBS-880 sloop. (Connelly, MA)
- 890 HOLLAND, Hengelo, 2220 6/8/78, //674 w/instrumental pops. (Hall-Patch, ENGLAND)
- 891 ALGERIA, Algiers, 2302 2/9, probably w/YL in FF. 0624 2/19, good w/OM in AA. 2253 2/10, loud w/AA yelling. (Connelly, MA)  
+2150 2/18, AA OM in serious monologue, unID underneath. (Bailey, MA)
- 891 HOLLAND, Hengelo, 0700-1700 Hilversum II and Hilversum III 1700-0700. (SCDX 12/5)
- 899 CZECHOSLOVAKIA, new station were is Moravské Budějovice, 30 kw with a relay of Brno-Regional. S/off weekdays at 1600. This station used earlier for 272 kHz. (Arctic 10/8)
- 899 ITALY, Milano, nx in EE //845 2307 6/8/78. Fair strength but two signals underneath. (Hall-Patch, ENGLAND)  
+generating screeching het on 900, sometimes II or FF talk by man surfaced 2346 11/20. (Connelly, MA)

- 908 GREAT BRITAIN, Brookmans Park, BBC, 8/21 2355; pop mx, 32 db o/noise. (Bailey, MA)  
+Synchronized outlets killing 910 during best TA opening of this autumn; woman in British EE in well on car rx 2348 11/20. (Connelly, MA)
- 909 ? UNID, 2340 2/10, strong het against 910. (Straus, NJ)
- 917 SPAIN, Madrid, to fair peaks w/rock mx 2358 11/10. (Connelly, MA)
- 926 <sup>t</sup> BELGIUM, Wolvertem, 8/22 0340, light mx, no announcer heard (this seems early for them), 36 db o/noise. (Bailey, MA)
- 927 BELGIUM, Wolvertem, 300kw, will not increase to 600 kw because of good test results. (Arctic 12/5)
- 935 UNID, always a carrier from northeast whenever European cx are good but the audio never makes it. Again 11/20 0333-C338. (Martin, CO) (probably Morocco--bp)
- 936 <sup>t</sup> MOROCCO, Agadir, carrier in splash 0352 8/28. (Connelly, MA)  
+Poor in slop w/AA mx 2254 10/23. (Connelly, MA)  
+Poor-fair w/AA instrumental mx 2325 11/15. (Connelly, MA)  
+Poor w/male AA sing-song talk 2307 12/11. (Connelly, MA)  
+0526 2/3, poor w/man in AA. (Connelly, MA)
- 936 WEST GERMANY, Bremen and Bremerhaven, Radio Bremen (SCDX) Plans to use 10 kw Bremen at night instead of 1 kw Bremerhaven. Bremerhaven will be closed completely after that change. (Arctic 12/5) Bremerhaven will close in 1979, replaced by Bremen 24 hours, 100 kw day/10 kw night, from 2210-0457. (MWN 12/78)
- 944 FRANCE, Toulouse, very good w/AA mx, then SS program, R. France ID o/feeble Latin American het from 945 0540 11/11. (Connelly, MA)
- 945 FRANCE, Toulouse, 2200 1/31, FF OM w/nx, YL comment. Was really looking for Sao Tomé e Príncipe but the 6 Hz SAH on frequency may have been someone else. (Bailey, MA)  
+0626 2/10, fair in slop, w/Slavic talk. (Connelly, MA)
- 953 CZECHOSLOVAKIA, Prague, has returned to the air. (NZDXT 9/78)
- 954 <sup>t</sup> SPAIN, Madrid, 2306 2/9, believed to be strong station noted w/SS talk by OM. (Connelly, MA)
- 960 SUDAN, Omdurman, 11/14 1825 weak. (McGovern, IRELAND)
- 962 INTERNATIONAL WATERS, R. Caroline. In DD 1330 6/3/78 w/ID in EE and rock 2032 6/3. (Hall-Patch, ENGLAND)
- 963 BULGARIA, station here is in Sofia, not Blagoevgrad, according to EBU. 150 kw 24 hours. TT period 0115-0130. (MWN)
- 981 SWEDEN, Gothenberg, R. Sweden, experimental period after 11/23 in EE, SS, PP, and Swedish, from 2200-0000 with EE at 2300. (MWN 12/78)
- 989 SPAIN, Madrid, RTVE, 8/23 0020, male singing SS songs 22 db o/noise. (Bailey, MA)  
<sup>t</sup> +vocal mx, bad het 0017 10/23. (Connelly, MA)  
+11/7 2352; SS YL announcer w/American jazz instrumentals; 40 db o/noise. (Bailey, MA)  
+Briefly in at strong clear level w/female rock song, then YL in SS followed by EE male vocal of late 60's hit "Hey Joe" 0004 11/11. (Connelly, MA)
- 998 <sup>t</sup> GREAT BRITAIN, Southampton, 8/22 0028, EE pop mx, fades, 3 Hz SAH, 22 db o/noise. (Bailey, MA)
- 999 ITALY, Rimini 2, a new RAI station in Emilia-Romagna relays Radio 2 //Bologna 2. (MWN 12/78)
- 1002 RHODESIA, 11/12 1745 w/EE nx weak. (McGovern, IRELAND)
- 1008 ? UNID, fadey carrier in WINS-1010 slop 2305 12/11. (Connelly, MA)  
+2308 1/20, possibly Morocco w/tentative AA talk by OM. Fair carrier, but audio bothered by WINS-1010 slop. (Connelly, MA)

+2305 2/9, apparent SS talk, possibly Canary Islands station, poor in WINS-1010 slop. (Connelly, MA)

1016 <sup>t</sup> TURKEY, Istanbul, 8/24 0035; Moslem chanting, very strong, 58 db o/noise. No SAH. (Bailey, MA)

1016 WEST GERMANY, Mainz-Wolfsheim, suspected w/man and woman in GG sounding talk and bits of interspersed classical mx. Good carrier but bad WINS-1010 slop 0103 8/23. (Connelly, MA)  
<sup>t</sup> +Suspected w/soft mx, muffled male announcer 0356 10/16. (Feltman, PA)

1017 WEST GERMANY, Rheinsender, SWF, (SCDX 12/5) Wolfsheim is off 2310-0330, 600/300 kw. (MWN 12/78)

1025 SPAIN, San Sebastian, EAJ8, 8/24 0040 fair w/guitar mx 28 db o/noise. (Bailey, MA)  
+11/8 0005 SS male and female alternating w/nx; chimes 0010, 20 Hz SAH; 46 db o/noise. (Bailey, MA)

<sup>t</sup> +SS talk noted briefly through slop from nulled WBZ-1030 0009 11/11. Latin Americans on 1025 are seldom heard here and, as this reception was during an excellent Iberian peninsula opening, Spain is assumed. (Connelly, MA)

1034 PORTUGAL, Porto Alto, 8/24 0048 PP male in romantic song, 48 db o/noise. (Bailey, MA)

+To fair peaks w/man in PP 0036 8/27. (Connelly, MA)  
+9/25 0550 loud het, poor voice, PP mx, fades; 0600 man talking (nx?). At 0605 faded but was into mx. Before 0615 poor-fair w/instrumental mx, drums beating. At 0615 woman talking "Aqui..." ID?, then more of same mx and at 0617 a chorus of women, at 0619 woman spoke, 0625 fair w/YL talking w/man, woman laughing at times, possible ad? (Poda, OH)  
+Good w/Carly Simon, Rita Coolidge records, man in PP 0033-0037 9/28. (Feltman, PA)  
+11/8 0001 PP male; 48 db o/noise. (Bailey, MA)  
+Noted w/low key PP talk by man, good w/WBZ-1030 nulled 0011 11/11. (Connelly, MA)

+Fair w/PP talk 2251 11/24. (Hutton, GA)  
+Fair w/female vocal in difficult-to-maintain null of WBZ-1030 0059 12/8. Still on old channel w/man in PP w/WBZ slop 0619 12/10. (Connelly, MA)  
+To good peaks w/man in PP, then disco rock 0039 12/13. (Connelly, MA)  
+0609 2/18, OM in PP, not sure if they ever were on 1035. (Connelly, MA)  
+0027 2/21, fair-good, w/OM/YL in PP, flute interlude, then more talk, slopped by nulled WBZ-1030, 4VEC-1035 off. (Connelly, MA)

1034 <sup>?</sup> UNID, 0519 12/20, as per 782 reception, carrier noted suggesting Portugal is slow in changing. (Cartwright, PA)

1035 <sup>t</sup> PORTUGAL, Porto Alto, 0637 2/10, romantic vocals, YL in apparent PP o/u WBZ-1030 slop. (Connelly, MA)

1035 <sup>?</sup> UNID, 0533 4/20, some kind of YL vocal chanting here, poor-fair and rapid fading, definitely on 1035, not strong enough to ID language. (Connelly, MA)

1043 MOROCCO, Sebaa Aïoun, has boosted power from 25 to 300 kw. (EBU via SWNS)  
+Strong w/one kHz TT's 0450 7/29. (Connelly, MA)  
+Fair in WHN-1050 slop; FF talk, jazz at 0039 9/17. (Connelly, MA)  
+Faded in briefly 0022 10/17 w/plaintive male vocal, exotic instruments. (Feltman, PA)  
+Good-excellent w/FF talk, then soul mx 0003 10/23. (Connelly, MA)  
+11/7 2206 American pop mx w/FF male announcer; 46 db o/noise; s/off 11/8 0059 w/NA. (Bailey, MA)  
+Fair-good w/FF talk by man and woman 2138 10/27. (Connelly, MA)  
+Good w/man in FF 2253 11/7. Very strong w/Beatles' song "No Reply" 0020 11/9, WBZ-1030 nulled. In w/outstanding local-like easy-listening signal w/several Beatles' "Revolver" LP cuts 0013 11/11 (a Moroccan version of a "Beatle Weekend"?). (Connelly, MA)

1043 <sup>?</sup> UNID, carrier looped TA here 0538 10/12 and 0540 10/16. (Thomas, FL)

1044 MOROCCO, Sebaa-Aïoun, fair w/man in FF 2105 11/23. (Connelly, MA)  
+Good w/pop-rock 2240 11/24. (Hutton, GA)  
+Excellent, best TA at the time, w/song "The Shape I'm In" by the Band, then man in FF 0100 12/8. (Connelly, MA)

- +Fair w/Barbra Streisand/Neil Diamond song, slopped by WHN-1050 0049 12/13.  
(Connelly, MA)
- +2350 12/30, superloud w/OM FF vocal, FF talk. (Connelly, MA)
- +carrier noted 0624 12/10, 0519 12/20, some audio 2354 12/13, music on a very low level. (Cartwright, PA)
- +0124 1/3, w/potent OC, audio from second station presumed GG. (Connelly, MA)
- +2354 1/8, fair w/OM in FF. (Connelly, MA)
- +2305 1/20, fair to good on peaks but fading deeply, African influenced avant garde jazz w/bongo solo. (Connelly, MA)
- +0034 1/23, fair w/blues-rock guitar mx. (Connelly, MA)
- +0556 2/3, heard w/OC, fading into WHN-1050 slop by 0600 when talk by YL was noted. (Connelly, MA)
- +2310 2/7, fair on peaks through WHN-1050 slop. YL pop vocal. 2356 2/9, very good w/OM in FF o/slight 1045 Panama het. 2301 2/10, FF nx o/German SAH. (Connelly, MA)
- +0611 2/18, to good peaks, w/old-time instrumental Muzak. (Connelly, MA)
- +0030 2/21, to loud peaks w/offbeat mx, blending AA mx w/sci-fi movie rock. (Connelly, MA)
- +0023 3/9, poor w/OM operatic vocal. Band cx "dogged out" (Connelly, MA)
- +0019 3/29, poor w/OM pop vocal. (Connelly, MA)
- +0132 4/19, poor w/instrumental mx, badly slopped by WHN-1050. (Connelly, MA)
- 1053 GREAT BRITAIN, BBC, very poor 2248 11/24. (Hutton, GA)
- +To good peaks w/man in EE, badly slopped by WHN-1050 0042 12/13. (Connelly, MA)
- +0023 2/21, to fair peaks in heavy WHN-1050 slop; OM/YL in discussion program. (Connelly, MA)
- 1061 PORTUGAL, Norte, fair w/man in PP, then classical piano mx, some CJRP-1060 interference 2306 9/16. (Connelly, MA)
- +Excellent w/classical mx, badly jamming KYW-1060 0001 10/23. (Connelly, MA)
- +11/7 2150 PP opera; 1.5 Hz SAH; 60 db o/noise. (Bailey, MA)
- +Excellent during unusual cx where low-latitude TAs were loud, but domestics were weakened as if by aurora. No KYW/CJRP-1060 interference, just a weak 1060 het which seemed to be from Latin Americans. Man in PP and feeble operatic vocal noted 2253 11/15. (Connelly, MA)
- +Het, too much KYW-1060 to raise audio, nothing on 1062 0053 12/8. It seems odd that 755 moved up to 756, but other Portuguese did not all follow suit. (Connelly, MA) (Maybe their shipment of new crystals was waylaid--bp)
- +Back here from 1062 (!), male operatic vocal fair-good o/slop 0005 12/13. (Connelly, MA)
- +2352 12/30, to fair peaks w/classical piano mx. (Connelly, MA)
- +2346 2/17, measured on 1061, good w/soft semi-classical mx. (Connelly, MA)
- +0022 2/21, fair in het sandwich, by 1060, 1062, opera mx. (Connelly, MA)
- +2358 3/3, w/classical mx, at low audio level on fair carrier. (Connelly, MA)
- 1062 ITALY, 0458-0501 2/4, synchronised outlets, fair w/carrier, short tones every 30 seconds, then anthem, followed by Radiotelevisione Italiana ID by YL. (Connelly, MA)
- 1062 PORTUGAL, Norte, to good peaks w/religious choral mx in Latin 0615 12/10. (Connelly, MA)
- 1070 FRANCE, synchros, France Inter ID 1600 6/4/78 and 4 pips. (Hall-Patch, ENGLAND)
- 1071 UNID, 0641 2/10, SS talk, poor in slop from Latin Americans on 1070. (Connelly, MA)
- 1088 ALBANIA, Dürres, 11/7 2204, YL w/East European language. 1 Hz SAH; 38 db o/noise. (Bailey, MA)
- 1088 GREAT BRITAIN, Crowborough, BBC External Service w/GG broadcast 2038 6/3/78. Great signal. (Hall-Patch, ENGLAND)
- +8/21 0115 very strong, BBC World Service, Big Ben chimes, etc. 48 db o/noise. No SAH. (Bailey, MA)
- 1088 UNID, looping Africa evenings of 11/24 and 11/25. (Hutton, GA)
- +2345 2/17, carrier on old plan channel; mx occasionally through WBAL-1090 slop. Albania still here? Or African? (Connelly, MA)
- 1089 GREAT BRITAIN, Orfordness, BBC, very weak, man in EE?? 2247 11/24. (Hutton, GA)
- +0038 1/23, fair-good w/jazz. (Connelly, MA)

+0648 2/19, BBC to fair peaks w/DJ in fast-talk EE, then pops. WBAL-1090 off, just interference from Latin-Americans/CKKW-1090. (Connelly, MA)

- 1097 ITALY, Bologna, o/u Spain 11/7 2210; II male mixing w/SS male; nx; 1.75 Hz SAH; 300 Hz het; 36 db o/noise. (Bailey, MA)
- 1106 ? UNID, 11/7 2214 (probably Balkan), march mx and YL in unID language, 4 Hz SAH and 8 Hz SAH; 42 db o/noise. (Bailey, MA)
- 1107 ? UNID, 0537 12/31, carrier only, many stations listed here per ITU list. (Eckman, PA)
- 1115 ITALY, Bari, 11/7 2216 YL singing II pop w/large orchestra (strings predominant) 0.75 Hz SAH and 5 Hz SAH; 36 db o/noise. (Bailey, MA)
- 1115 <sup>t</sup> MOROCCO, Ouarzazate/Tangier, poor w/female vocal, possibly AA 0402 8/28. (Connelly, MA)  
+Azan (call to prayer) 8/30 0358. Believe Ramadan was just over then, but AN operation seems to be continuing. (Wood, NH)  
+2343 2/17, measured on old channel, very good w/OM AA chant and violins. Station heard on 1116 (1/23) might have been the Italian. (Connelly, MA)
- 1116 ? UNID, 0124 1/23, violin mx, poor in noise. (Connelly, MA)
- 1124 <sup>t</sup> BULGARIA, Stara Zagora, 11/7 2225 male chorus w/orchestra, then YL in medium tempo song. 2 Hz and 8 Hz SAHs; 34 db o/noise. (Bailey, MA)
- 1133 SPAIN, unid, 11/7 2230 male in rock song; 3 Hz SAH and 200 Hz het; 44 db o/noise. (Bailey, MA)
- 1142 <sup>t</sup> ALGERIA, 8/24 0010 AA talk, 4 Hz SAH, 28 db o/noise. (Bailey, MA)
- 1142 ? UNID, probably Algeria, 11/7 2233 w/bland mx, 22 db o/noise. (Bailey, MA)
- 1143 U.S.S.R., EBU lists Kaliningrad with 150 kw here, but observers in Sweden feel this is in Byelorussia and not Lithuania; Foreign Service. Such a practice is not unusual for Soviet radio. Seems to be 500 or 1000 kw in the Minsk area. (MWN 12/78)
- 1161 FRANCE, Strasbourg, 0535 2/11, fair o/Latin American slop from 1160. OM and YL in FF, also sometimes other languages were used, then FF folk and pop mx. (Connelly, MA)
- 1161 ? UNID, 0536 12/31, good carrier, some mx, no language ID, possibly Strasbourg? (Eckman, PA)
- 1169 PORTUGAL, Porto, 8/24 0005, religious chanting, 300 Hz het, 24 db o/noise. (Bailey, MA)
- 1169 ? UNID, het on Latin Americans after WVLC-1170 s/off; maybe Chad? 2309 9/16. (Connelly, MA)
- 1179 SPAIN, Radio Miramar de Barcelona has taken over R. Peninsular, Barcelona. (Arctic 12/5)
- 1196 <sup>t</sup> MOROCCO, Agadir, loud on peaks w/chanting 2315-2330 9/27. (Feltman, PA)  
+Excellent w/female AA chanting, unusually strong 2357 10/12. (Connelly, MA)  
+Fair, man in AA 2307 10/23. (Connelly, MA)  
+Good w/AA yelling and drumming 2255 11/7. (Connelly, MA)
- 1196 WEST GERMANY, Munchen, VOA, good w/EE nx, report about Vatican voting 0327 10/16. Troubled by WOWO-1190 slop. (Feltman, PA)  
+OC 0258, "This is the VOA, Washington, DC, signing on" 0259½, into EE program 0300 8/31. Seems that listeners could be caught more effectively by using IS rather than OC before s/on. Fine level, better than WDR-1586. (Wood, NH)  
(I thought VOA stations normally used "Yankee Doodle" as a pre-s/on IS. Maybe there's been a policy change somewhere--bp)
- 1197 <sup>t</sup> MOROCCO, Agadir possible 2356 12/30, big carrier, very poor modulation, bits of a capella chants or screams. (Connelly, MA)
- 1197 ? UNID, TA carrier during low-latitude cx 2226 12/16. (Connelly, MA)  
+0647 2/10, plaintive PP or SS vocal, poor o/SAH. (Connelly, MA)

- 1200 ANGOLA, E.R. de Benguela (Cubal?), new here. (Arctic 12/5)
- 1205 FRANCE, Bordeaux, fair-good w/FF talk, then rock mx 0349 6/25. (Connelly, MA)  
+0545 9/25, OM FF talk, poor. (Straus, NJ)  
+w/singing //1376 but not as strong 0437 10/16. (Feltman, PA)  
+Fair w/piano mx, then woman in FF atop SAH (Cayman?) 2256 11/7. (Connelly, MA)
- 1205 SIERRA LEONE, Freetown, Cayman carrier here displayed sound of other station interference on same frequency 0612-0620 10/15, weak audio few times underneath but nothing readable. Looping 80-85°, experience suggests Africa. (Martin, CO)
- 1206 FRANCE, Bordeaux, believed the one here 2205 12/2, although I see Morocco is also listed. My first TA since the big frequency switch. A het was also noted on 1557 around the same time. (Stanbury, ON)  
+Good, running 1 kHz TT up to 0559:30 then a few seconds of silence followed by chimes and then woman and man in FF at 0600 s/on 12/10. (Connelly, MA)  
+0648 2/10, poor-fair w/WCAU-1210 slop, OM in FF. (Connelly, MA)  
+0515 2/19, very good w/AA program, 0520 ID, into Turkish (?) program. (Straus, NJ)  
+0624 2/18, good w/OM and YL in FF. (Connelly, MA)  
+0506 4/1, poor w/OM in FF. (Connelly, MA)
- 1214 ALBANIA, Lushnje, poor in GG-sounding language 0438 11/16. (Connelly, MA)
- 1214 GREAT BRITAIN, BBC, poor in noise w/pop mx w/male vocal 0033 8/27. (Connelly, MA)  
+Fair w/man in EE 0031 9/17. (Connelly, MA)  
+To fair peaks w/pop mx, EE talk, interference from WCAU-1210, 2345 10/22. (Connelly, MA)  
+Most likely source of steady weak carrier 2352 11/8, 0003 retune poor signal w/EE mx or discussion. (Everitt, OK)
- 1214 UNID, northeast carrier 11/19 0742-0754, no audio, was all it took to persuade me that a possible European opening was in the making about one hour after the appearance of Lisbon-665. But the next night, this frequency was empty although other TAs were being located. So, summing up, this mini-opening to Europe lasted no more than 24 hours before it was shot down by this season's rampant A-index. (Martin, CO)
- 1215 ALBANIA, Lushnje, operating when Radio 3 is on from 1130-1330, 1500-1730, 1800-1830 and 1900-2030. (MWN 12/78)
- 1215 GREAT BRITAIN, BBC, poor 2305 11/24. (Hutton, GA)  
+2357 12/30, to fair peaks w/YL pop vocal. (Connelly, MA)
- 1215 SPAIN, Las Palmas, EAK92, 20 kw. (Arctic 12/5)
- 1224 SENEGAL, talk by man in unfamiliar language, weak atop 1223 het 2257 11/15. (Connelly, MA)  
+2237 12/22, AA type moans, fair carrier during African opening. (Connelly, MA)  
+2349 12/31, screams/chants in and out of slop, signal loops African. (Connelly, MA)
- 1232 MOROCCO, Tangier, likely w/female chanting in WESX-1230 slop 2258 11/15. (Connelly, MA)
- 1233 UNID, 0521 12/31, carrier noted, possibly Tangier. (Connelly, MA)  
+2339 2/17, big carrier, weak audio (possibly chanting) in WESX-1230 interference. (Connelly, MA)
- 1251 HOLLAND, Amsterdam, with Hilversum III around the clock with breaks for STAD (local Amsterdam radio) 1200-1300 and 1700-1900. (SCDX 12/5)
- 1269 WEST GERMANY, Neumunster, DLF, perhaps the source of the carrier hetting 1270 domestics 0312 12/9. Some nondescript mx faded up briefly for a time. (Eckman, PA)  
+2229 12/28, assumed the carrier here producing het on 1270 stations. No audio discernible. (Eckman, PA)  
+0636 1/13, fair to good w/OM in GG o/1270 slop. (Connelly, MA)
- 1273 EGYPT, Assuan ex 1277. (NZDXT 9/78)

- 1277 <sup>t</sup> FRANCE, Strasbourg, 8/23 2352; audio hard to understand; s/off 2400, 22 db o/noise. (Bailey, MA)
- 1286 CZECHOSLOVAKIA, Praha-Melnik, noted at weak level w/classical mx 2259 11/15. (Connelly, MA)
- 1287 CZECHOSLOVAKIA, Praha-Melnik, 0516 12/31, apparent classical mx/opera at low audio level on good carrier. (Connelly, MA)
- <sup>t</sup>+0534 12/31, assumed w/strong signal. WCAM-1310 slop obliterated audio. (Eckman, PA)
- +0635 1/13, w/big carrier, weakly modulated by orchestral mx, o/suspected Portugal w/PP (?) talk. (Connelly, MA)
- +0038 2/21, fair w/classical mx o/SAH. (Connelly, MA)
- GREAT BRITAIN, BBC World Service noted quite faint 6/1/78. Probably Orfordness 50 kw transmitter. 6 pips on hour, sixth is longer. (Hall-Patch, ENGLAND)
- SUDAN, Sennar, 11/14 1530 AA discussion, fair. (McGovern, IRELAND)
- <sup>?</sup> UNID, probably BBC, 1 kHz TT loud 0118 9/28. (Connelly, MA)
- <sup>t</sup> YUGOSLAVIA, 8/21 0335; mx sounded Slavic but may have been BBC on foreign service and directional antenna. 30 db o/noise. (Bailey, MA)
- GREAT BRITAIN, BBC 0437 1/28, assumed w/TT on weak carrier. (Connelly, MA)
- INDIA, Parbhani, 0115 11/18, ID and Hindi talk, weak. (McGovern, IRELAND)
- <sup>?</sup> UNID, 1.9 Hz SAH and weird flute mx (like that on 765 earlier). Senegal o/Algeria suspected 2320 9/16. (Connelly, MA)
- <sup>t</sup> ALGERIA, 2334 2/17, OM in AA chant, good. Loops North Africa, consistent w/Algerian location. (Connelly, MA)
- <sup>?</sup> UNID, 0514 12/31, OM in FF, poor-fair. (Connelly, MA)
- +11/7 2340 probably North African jumping the gun on frequency changes. 400 Hz het; 42 db o/noise. (Bailey, MA)
- INDIA, Bhuj, 11/17 0105 local songs and ID, fair. (McGovern, IRELAND)
- ITALY, Roma, 0510-30 1/16, very good w/classical mx, YL in II, then pop mx. (Connelly, MA)
- FRANCE, Nice, very powerful (killing 1350), FF announcer, then soul-disco mx 0317 6/3. (Connelly, MA)
- MAURITANIA, Nouakchott, in well w/female screaming, better than 1350, 2148 11/4. (Connelly, MA)
- +Probable w/mumbled AA-sounding talk at pitifully poor audio level on a tremendous carrier (demolishing WHNE et al on 1350) 2300 11/15. (Connelly, MA)
- <sup>t</sup>+African mx fair 2235 12/16. (Connelly, MA)
- +2238 1/20, poor w/bits of chanting, strong het against WHNE-1350. (Connelly, MA)
- <sup>?</sup> UNID, het on WHNE-1350, perhaps Mauritania, 2322 9/16. (Connelly, MA)
- EAST GERMANY, Berlin, poor w/man in GG 0601 11/12. (Connelly, MA)
- EAST GERMANY, relay of Radio Berlin International, ex 1511 ex 1358, external services to Europe 1730-2300. (SCDX 12/5) Berlin 250 kw sharing channel with RBI. (MWN 12/78)
- SPAIN, Figueras, 1000 kw, RNE. (Arctic 12/5)
- <sup>?</sup> UNID, 0542 12/31, het noted. (Connelly, MA)
- FRANCE, Lille, running potent OC 0316 6/3. (Connelly, MA)
- +OM in FF 6/2/78 daytime. DF correct for Lille but no IDs on hour or half hour. (Hall-Patch, ENGLAND)
- +Outstanding w/AA mx, man in AA 0459 10/16. Very clear even on TRF. Best signal ever noted on a TA! (Feltman, PA)
- +To good peaks w/chimes, then man and woman in FF 0600 11/12. (Connelly, MA)

- 1377 FRANCE, Lille, presumed the one here w/good signal, poor audio 0627 12/9. (Eckman, PA)  
 +Carrier in slop 0622 12/10. (Connelly, MA)  
 +0533 12/25, presumed w/YL in uID language; fair signal. (Eckman, PA)  
 +0510 12/31, running OC/TT prior to normal programming. (Connelly, MA)  
 +0614 12/31, strong w/mx. (Eckman, PA) (seems Mark and Richard were chasing the same stations around the dial on Dec 31.--es)  
 +0627 2/18, good w/two OMs in FF; rock mx followed. (Connelly, MA)  
 +0641 2/19, OM in FF deep fades. (Connelly, MA)  
 +0601 2/19, very good w/FF, OM/YL talk. (Straus, NJ)  
 +0630 1/13, w/European electronic rock a la Kraftwerke; also excellent w/OM in FF 0716 1/13. (Connelly, MA)
- 1385 SPAIN, Madrid, good w/SS talk and mx 2303 11/15. (Connelly, MA)
- 1394 ALBANIA, Lushnje, noted fading in 2303 9/16. Fair-good w/apparent SS program to 2330. Did not s/off at that time but remained on until 2357. Has anyone else noticed this schedule change? (Eckman, PA)  
 +Potent w/woman in SS 2341 10/22. (Connelly, MA)  
 +Presumed TA here w/man in Slavic (?) language and diatribe re imperialism. Fair at best 0510 10/16. (Thomas, FL)  
 +Fair w/talk by man 2304 11/15. (Connelly, MA)
- 1394 ? UNID, strong carrier, not likely the Albanian as TA opening was restricted to Africa 2258 11/4. (Connelly, MA)
- 1395 ALBANIA, Lushnje, 2306 12/13, stronger at 2333 w/YL in SS sounding language; one of the more consistent evening signals. (Cartwright, PA)  
 +2156 12/28, YL in EE noted at 2215 which seemed to be // 41 meter shortwave outlet. (Eckman, PA)  
 +0508 12/31, talk by OM/YL to fair peaks. heavily sloped by WEAM/WFBL-1390 mess. (Connelly, MA)  
 +0553 12/25, presumed w/good carrier; gone by 0600. (Eckman, PA)  
 +0507 1/16, likely w/talk by OM possibly in GG. Poor. (Connelly, MA)  
 +2330 1/29, likely w/YL/OM in SS. (Straus, NJ)  
 +0222 1/31, strong carrier, poor audio w/domestic interference. YL talk in uID language, possibly EE as per list. (Straus, NJ)
- 1403 ● GUINEA, Conakry, very loud w/African vocal group mx and drumming. Strong het from OC on 1404 0314 6/3. (Connelly, MA)  
 +Weak w/talk and native mx 0107 6/28. Best TA during auroral cx; male chanting in FF and fluttery carrier 0115 7/5. Excellent w/female African vocal mx and chanting 0147 7/9. (Connelly, MA)  
 +Very good w/man talking in native African language w/bits of FF thrown in 0426 7/29. (Connelly, MA)  
 +Putting bad het against the 1400 battlefield 0520 8/7. Have mistaken this for a TV birdie in the past. (Baskind, MS)  
 +Very strong w/African mx during auroral cx 0046 8/29. Bodacious signal; native mx program w/no IDs or announcements 0359-0402 8/29. (Connelly, MA)  
 +Fair w/talk by man in African language, possibly a religious service 0337 9/27. Strong but fluttery w/man in FF at low audio level 0105 9/28. (Connelly, MA)  
 +There was a massive solar disturbance 9/23, but that night I found Conakry's usual het against 1400 about 0615-0620 9/24, as heard from Canon City, CO, about 100 miles south of Denver, the first TA spotted on my new Sony portable (CF-370). This item, costing \$106 + tax, I believe is Sony's top-of-the-line AM-FM-cassette combination, and it will go w/me to Hawaii at Christmastime. Same Conakry het was noted many summer nights from Denver on HQ-180. (Martin, CO)  
 +In nightly week of 10/12. Best 0530 10/12 at a solid 10db o/S9 which, relatively speaking is strongest TA here. AA moan-chants. (Thomas, FL)  
 +Was putting a pretty good het on the 1400 imbroglio, but no audio detected 0551-0601 10/15. (Martin, CO)  
 +Very good on TRF w/native mx resembling SS and AA classical guitar 0437 11/4. Excellent w/xylophone-type mx 0603 and loud w/native mx sounding like steel pipes being banged together 2148 11/4. (Connelly, MA)  
 +Unusually poor 0507 11/6. Better by 0510 w/FF talk. TAs have been less than mediocre so far this season. (Everitt, OK)  
 +Extremely weak carrier looping in the right direction 0528 11/10. Detectable only by using BFO, not even strong enough to cause a het. (Portzer, WA)  
 +On old channel, apparent OC 0525 11/23. (Connelly, MA)

- 1404 GUINEA, Conakry, suspected on new channel; strong OC o/SAH--signal consistent w/usual Conakry strength 0444 11/24. (Connelly, MA)  
 +Excellent 11/25 0100 w/end of melodic African mx, echoed "La Voix de la Revolution" ID, talk in FF. (Hutton, GA)  
 +Loud w/plucked string mx, similar to a ukelele, followed by male and female chanting 0039 12/4. (Connelly, MA)  
 +Very good w/African mx, FF talk by woman, then male announcer 0358 12/11; drums in background of talk until 0401 w/trumpet fanfare of some sort superimposed over at 0400:45. Very clear "Radiodiffusion Nacional" mention 0401:30. Seems to be fairly stable in frequency although a slight "wobble" is noted at times w/BFO on. (Everitt, OK)  
 +Finally some decent audio here 0350 12/17. Steel drum mx. (Baskind, MS)  
 +0216 12/13, sneaking through 1400 slop w/OM in FF, good audio. (Feltman, PA)  
 +2303 12/20, good carrier. OM vocal, low modulation. (Connelly, MA)  
 +Maybe this w/rhythmic mx, drums, etc. 2320; trumpet and drums 2327 and announcement not in EE/FF, then into instrumental mx, this at Joe Fela's on HQ-180 w/S9+10 in South Plainfield, NJ. This on 12/13. (Mount, NJ)  
 +Fair w/native flute mx 2132 12/16. Excellent, like a local, w/native singing and guitar mx - very enjoyable - 2236 12/16. (Connelly, MA)  
 +0658 12/25, easier now on new frequency, in unID language. Would have been better an hour earlier, still the main TA being heard. (Martin, CO)  
 +2215 12/30, fair to peaks, very fadey. (Connelly, MA)  
 +2252 1/6, poor w/YL vocal, heavy slop. (Connelly, MA)  
 +2220 1/10, FF OM talk, getting better, possibly nx. (Straus, NJ)  
 +0139 1/23, noted w/flute mx resembling Irish vileann pipes, at weak audio level, carrier hit good peaks. (Connelly, MA)  
 +0441 2/3, fair w/OC. (Connelly, MA)  
 +0634 2/10, massive OC. (Connelly, MA)  
 +0511 3/3, fair-good on TRF w/chanting. (Connelly, MA)  
 +0501 4/1, excellent, like a local, w/native drumming. (Connelly, MA)  
 +2324 4/7, in w/good carrier. African mx at low level. (Connelly, MA)  
 +0141 4/19, fair carrier weakly modulated by African vocals, heavily slopped. Nothing on 1475. (Connelly, MA)  
 +0036 5/6, noted w/singing at low level on good strength carrier pushing through heavy slop. (Connelly, MA)  
 +0940 5/7, poor w/drums. (Thomas, FL)
- 1404 <sup>?</sup> UNIDs, 0435 1/28, several carriers looping Europe, also a het from a straggler still on 1403. (Connelly, MA)  
 +0507 2/24, two carriers mixing, SAH about 3 Hz. Audio murky; France/Guinea suspected. (Connelly, MA)
- 1413 <sup>?</sup> UNID, 0517 2/11, possibly SS station here in slop. (Connelly, MA)
- 1421 WEST GERMANY, Saarbrucken, fair w/man in GG 0304 7/19. (Connelly, MA)  
 +Fair w/mx overpowering 1420 domestics 0450 10/16. (Feltman, PA)  
 +Fair o/slop w/male vocal 2335 11/8. (Connelly, MA)
- 1422 WEST GERMANY, Saarbrucken, noted w/surprisingly good signal w/mx, woman in GG 0315-0600 12/9. (Eckman, PA)  
 +2327 12/28, excellent around 0458 12/31 w/OM in GG. (Eckman, PA)  
 +0541 12/31, poor-fair, fadey w/OM pop vocal mx. (Connelly, MA)  
 +0140 1/3, poor in slop w/bits of mx, mostly a loud het on WBSM-1420. (Connelly, MA)  
 +0628 1/13, fair-good w/rock mx. (Connelly, MA)  
 +0506 1/16, good w/OM in GG; low-pitched het audible on low side (about 400 Hz) (Connelly, MA)  
 +0140 1/23, poor-fair, fadey, w/Englebert Humperdinck style vocal. Also 0432 1/28, w/YL in GG, then pop mx, just getting by slop. (Connelly, MA)  
 +0553 2/19, poor w/GG talk. (Connelly, MA)  
 +0610 2/19, presumed station w/GG vocals, 1420 slop. (Straus, NJ)  
 +0500-02 2/25, to fair peaks w/mx, GG talk, big-band GG march mx. (Connelly, MA)  
 +0500 4/1, poor in slop w/time pip, bits of talk. (Connelly, MA)
- 1431 <sup>?</sup> UNID, 0506 12/31, strong het on domestics, no audio. (Eckman, PA)  
 +0627 1/13, male vocal, fair. (Connelly, MA)  
 +0410 1/28, talk by OM w/mushy audio. May have been PP or Slavic language. Then calssical mx, loud at 0410. Faded into slop by 0430. (Connelly, MA)
- 1439 LUXEMBOURG, Marnach, very good w/WFTQ-1440 nulled; record ad, EE talk, ID jingle, then country-rock song 2333 9/16. (Connelly, MA)  
 +Poor in WFTQ-1440 slop. Fast-talk ads, seemingly in GG, also segments of a Patti Smith or Blondie song 0551-0554 11/12. (Connelly, MA)

- 1449 ? UNID, 0607 1/28, strong het on 1450 domestics. Italian synchros seems to be the dominant stations heard in Europe. (Eckman, PA)
- 1457 ALBANIA, Dürres, good w/PP talk 2334 9/16. (Connelly, MA)  
+Loud w/man in unID language 0409 10/16. Internationale anthem heard distinctly 0458. (Feltman, PA)
- 1457 ? UNID, traces of pop-rock mx, talk that may have been EE. London suspected, although the time seems a bit early 0543 11/12. (Connelly, MA)
- 1458 ALBANIA, Lushnje, 2150 12/15, choral mx w/orchestra. (Bailey, MA)
- 1458 GREAT BRITAIN, London 0626 1/13, w/Olivia Newton-John song, also 0714 1/13 w/EE talk, rock mx. (Connelly, MA)
- 1458 ? UNID, 2329 12/13, is possibly Albanian, noted several times on 1457, but only carrier on 1458. (Cartwright, PA)  
+0500 2/25, probably Albania--s/off w/march mx at 0459 and carrier off at 0500. (Connelly, MA)
- 1466 MONACO, Monte Carlo, fade in 2305 9/16 w/religious program. Quite good 2330 to 0000 s/off. Also noted 0420 9/17 w/OC, TT, and s/on 0445 w/fair signal. (Eckman, PA)  
+Strong w/EE religious program 2334 9/16. (Connelly, MA)  
+The 1200 kw beastie finally made a solid het 0500 9/29. Had to literally take my radio into the swamp to escape heavy noise level...an impromptu DXpedition, hi. (Baskind, MS) (Only a DXer would be crazy enough to wander around a swamp at night with a radio glued to his ear, hi...bp)  
+Talk and Muzak in bad WLAM-1470 buckshot 2358 9/20. (Connelly, MA)  
+9/19 0500, loud het, poor audio, woman in EE, also chorus singing and man talking. Some of these were probably 1460 or 1470 stations. However, there were other hets on the high end and WWV had A-index of only 2 on 9/19. Heard at work on Guardian 7700 inside steel frame building. (Poda, IL)  
+Fair-nil in tight local WOKO-1460 null. IDs 2255 and 2235 in EE, including address 10/16. (Morby, NY)  
+Good w/mx box IS to 0000:23, then OC until 0001:15 when carrier was switched off 10/13. AA-sounding talk fair in slop 2204 10/12. (Connelly, MA)  
+Excellent w/hymn, man in EE, sneaking past local WSAW-1470 0453 10/16. (Feltman, PA)  
+10/17 2345 loud het, choral singing and at 2346 man talking w/mx background. "Radio Trans-?-?" (last two words unknown). Foreign language (GG?). Varied in strength till tuneout 0000 10/18. (Poda, OH) (Listed as being in SS to 2345. If so, your ID was probably "R. Transmundial"-bp)  
+Poor-fair in slop w/apparent GG talk by man 2340 10/22. (Connelly, MA)  
+Excellent, like a local, best TA. Light jazz program, then man in SS w/ID, followed by PP program 2330 11/8. (Connelly, MA)
- 1467 MONACO, Monte Carlo, fair-poor 2330 11/24, extremely weak het from 1466 noted at times. (Hutton, GA)  
+Good w/OC 0427 12/9. Into mx box IS 0440. Not as easy to hold as it was when on 1466. (Eckman, PA)  
+Good w/hymns 2358 12/11. (Connelly, MA)  
+One loud het on high side of WCMB-1460, but no audio noted 2308-2400 12/13 and nothing noted much after that. Het more than 1 kHz, but I wouldn't specifically know a 7000 Hz sound. (Mount, NJ)  
+Regular during evenings of 12/9, 11, 13, 17, best on 2315 12/13. (Cartwright, PA)  
+2203 12/29, good w/OM in AA, excellent w/OC 0432 12/30, IS noted 0441. Strong w/GG program 0452 12/31. (Eckman, PA)  
+0504 12/31, excellent w/GG talk and hymns. (Connelly, MA)  
+0437 12/25, w/IS, 0644 re-check. (Eckman, PA)  
+0625 1/13, good w/vocal mx. (Connelly, MA)  
+0458 1/16, excellent w/OM in GG. (Connelly, MA)  
+0602-45 1/28, very strong w/FF-type mx and OM in FF? Some European arrangements of old U.S. pops. (Eckman, PA)  
+0455 1/21, fair-good w/religious mx, then YL in GG. (Connelly, MA)  
+2220 1/31 good w/FF vocals, OM talk. (Straus, NJ)  
+0440 2/4, testing with carrier on and off. (Connelly, MA)  
+2350 2/10, TWR blasting in on 8 kc bandwidth on R-390A w/SS OM talk, religious mx. (Straus, NJ)  
+2315 2/10, good w/EE program, western-U.S. accented preacher, WLAM-1470 nulled w/phasing unit. 2302 2/7, poor w/religious vocal mx in slop. (Connelly, MA)

+2251 2/17, poor w/EE sounding talk in slop. (Connelly, MA)  
+0000-1 2/21, fair-good w/OM in SS who gave R. Transmundial ID, then wished all "Buenas Noches", music box IS, carrier off. (Connelly, MA)  
+0504 3/3, excellent, pestering 1460, 1470 on TRF; GG talk, then religious mx. (Connelly, MA)  
+0458 4/1, excellent w/children's choir, then OM in GG. Many TA carriers noted on high end but only a few w/good audio. (Connelly, MA)  
+0406 4/22, at good level w/OC. Faded by 0445 scheduled s/on. (Eckman, PA)

- 1475 <sup>t</sup> AUSTRIA, Wien, probably source of weak carrier looping Europe 2341 11/8. (Everitt, OK)  
+Poor w/soft mx 0540 11/12. (Connelly, MA)
- 1475 <sup>?</sup> BENIN, Cotonou, fair w/FF talk, African mx, 0103 and 0112 6/28. Weak het on low side (SS GYer?)  
+2201 12/15, OM w/nx in FF. (Bailey, MA)
- 1475.1 <sup>?</sup> BENIN, Cotonou, 0405 4/25, good w/TT, anthem at 0409 and brief s/on announcement in accented FF. Definitely fully // w/4870 as heard on second rx. By 0500 opening faded and even shortwave had fade out although LSR not listed till 0545. Also 4/28 at 0445 w/OM in FF //shortwave. Also 0404 4/30. No AA ever heard, no IS prior to s/on. This station requires a certain type opening to be audible. Possible receptions of what is thought to be Guinea are this. (Foxworth, NY)
- 1476 AUSTRIA, Wien, 0600-35 12/25, best signal since early '77. Christmas choir mx, w/OM in GG. (Eckman, PA)  
+2339 12/28, carrier only, 0433 12/30 good w/traces of audio; intense 1480 slop. 0526 12/31 w/classical mx. (Eckman, PA)  
+0403 12/31, w/OM in GG poor through bad WSAR-1480 slop. (Connelly, MA)  
+2327 12/13, w/low-level classical mx. (Cartwright, PA)  
+0624 1/13, excellent w/OM in GG.  
+0400 1/28, fair w/musical note, then OM in GG. (Connelly, MA)
- 1476 SPAIN, Barcelona, 0456 2/25, SS'er dominant w/disco mx. (Connelly, MA)
- 1476 <sup>?</sup> UNID, Benin, Cotonou suspected 2234 1/20, w/choral mx, poor, loops Africa. (Connelly, MA)
- 1484 <sup>t</sup> GREAT BRITAIN, Bournemouth, 8/23 0120; mx usually ballad-type, announcer (male) sounds EE, 5 Hz SAH, 20 db o/noise. (Bailey, MA)
- 1485 <sup>t</sup> MOROCCO, 2152 12/15, AA chants, 3 Hz SAH. (Bailey, MA)
- 1485 <sup>?</sup> UNID, 0713 1/13, strong TA graveyard rumble, no clear dominant station. (Connelly, MA)  
+0453 4/21, flurry of carriers/SAH's here, audio (mx and possible FF talk) surfaced briefly. (Connelly, MA)
- 1493 <sup>?</sup> IVORY COAST, Abijan, 2150 12/14, FF OM announcer.
- 1493 <sup>t</sup> YUGOSLAVIA, 8/21 0350, audio muffled but mx more Eastern European than anything else. Leningrad, USSR, possible but not probable. (Bailey, MA)
- 1493 <sup>?</sup> UNID, 0549 4/16, carrier here; with 400 Hz TT, 1 kHz TT at 0556. If Abidjan still on this frequency, s/on would be 0600. (Foxworth, NY)
- 1494 FRANCE, (Corsica), Ajaccio, 2152 12/25, FF announcer FF YL song. (Bailey, MA)  
+0712 1/13, atop others w/FF talk. (Connelly, MA)
- 1494 FRANCE, Corsica, Bastia, 0549, 0600 2/19, very good w/bouncy Italian-influenced Muzak, then YL in FF. R. France ID at 0600. (Connelly, MA)  
+0541 2/25, atop SAH, traces of male chorus, possibly Russian on second station way under. (Connelly, MA)
- 1494 HOLLAND, Hulsberg with Hilversum II 0700-1700 and Hilversum III 1700-0700. (SCDX 12/5)
- 1494 <sup>?</sup> UNID, 0541 12/31, two stations here w/resultant SAH, no audio from either. (Eckman, PA)
- 1502 SPAIN, SS GY mess showing through bad WITS-1510 slop 2307 11/15. (Connelly, MA)

- 1502 <sup>t</sup> TOGO, Lama-Kara, 2150 12/15, FF OM talk, the switch makes this one easier, Spain usually dominates. (Bailey, MA)
- 1502 <sup>?</sup> UNID, African suspected, het on aurora-weakened WTOP-1500 0524 11/4. A Beverage would have brought up audio on this one. (Connelly, MA)  
+0530 4/16, heard through WTOP-1500 splash w/one kHz TT, believe this is Lama-Kara's s/on format. Soon faded but at 0545 there was rock mx on 1503. (Foxworth, NY)
- 1503 GREAT BRITAIN, 0602 4/2, sounds like BBC local w/YL reading nx in EE for a few minutes, just missed ID. Into mx at 0606 w/DJ show by OM. Same station believed heard again at 0706 (seems late for this time of year) to 0715 fade out on 4/9, format sounded the same. (Foxworth, NY)
- 1503 POLAND, Warsaw, Foreign Service only on this frequency in the future. (Arctic 12/5)  
+0608 12/25, good w/YL in east European language. Still audible 0700, IS not noted. (Eckman, PA)  
+2318 12/28, w/YL in unID language. Pop mx at 2325. No definite ID. Excellent 0528-0615+ 12/3, w/WTOP-1500 on. Chopin piano IS noted 0520 followed by ID by YL in GG. Frequencies given. IS noted at 0600 also, followed by program in unID language. (Eckman, PA)  
<sup>t</sup>+0623 1/13, apparent Slavic talk by YL, poor-fair o/grumble. (Connelly, MA)
- 1503 SPAIN, Bilbao, 2148 12/15, guitars, SS mx, 6 Hz SAH plus 100 Hz het. (Bailey, MA)
- 1503 <sup>?</sup> UNIDs, 0609 1/28, station w/OM in unID language; cx indicate this is probably one of the Spanish outlets. (Eckman, PA)
- 1504 ANGOLA, E.R. de Benguela, varying to 1506, s/off at 2300. (Arctic 12/5)
- 1511 EAST GERMANY, RBI, evening program at 1830 in EE. (Arctic 10/8)
- 1512 BELGIUM, Wolvertem, new transmitter to be built with 400 kw. Antenna will be an umbrella beam. BRT2 programs but a parallel with future LW transmitter in Holland is not excluded, if there will be a common NOS/BRT program. (Arctic 12/5)
- 1512 <sup>t</sup> EAST GERMANY, Berlin, 2147 12/15, orchestral mx, barely audible. (Bailey, MA)
- 1521 SAUDI ARABIA, Riyadh, 2128 2/11, heard w/theme mx from German folk tune (EE version: Wooden Heart) followed by ID: "Edha' at ...Arabiyah...Saudiyah min ar-Reyadh". Notice that the language used seems to be Egyptian Arabic, as this is probably a pan-Arabic service. I believe Egyptian AA is standard. "Min ar-Reyadh" (ir. Riyadh) clinches it. Monster signal. (Taylor, BERMUDA)  
<sup>t</sup>+0324 4/2, AA moaning, fair. (Connelly, MA)
- 1521 <sup>t</sup> TUNISIA, 2229 1/20, AA talk by OM/YL, then AA flute and violin mx; potent, jamming WKBW-1520; het has been noted here before at local sunset but this is first time strong enough to push good audio through WKBW. (Connelly, MA)
- 1521 <sup>?</sup> UNID, very loud het ripping up WKBW-1520 at various times from 0304 12/9 to later in the evening. No audio discernable. Could it be the high-powered Czech? (Eckman, PA)  
+2249 12/11, wicked het on WKBW-1520, loud on portable radio. (Cartwright, PA)  
+2334 12/28, intense het w/YL in east European language at 2352, also noted w/strong carrier 0457 12/31, but no audio. Czech seems likely source. (Eckman, PA)  
+Het on aurora-weakened WKBW-1520 during African opening 2245 12/16. (Connelly, MA)  
+0536 12/25, strong het on 1520, no audio. (Eckman, PA)  
+0130 3/11, het here, too much WKBW-1520 for audio. (Connelly, MA)  
+0200 3/20, big OC equalling nulled WKBW-1520 strength; signal gone when re-checked 0400. (Connelly, MA)  
+0300 4/2, to past 0320. Could be Duba, Saudi Arabia (on Red Sea shore near Jordan), heard nicely through WKBW-1520 slop, all program was Quoranic chanting. (Foxworth, NY)
- 1522 TUNISIA, a regional station is reported. (MWN 12/78)

- 1529 VATICAN CITY, R. Vatican, good w/soft classical mx 0022 9/17. (Connelly, MA)  
 +Fair-good w/AA type mx and preaching 0111 6/28. (Connelly, MA)  
 +Poor w/musical notes (IS?) then talk by woman; too much slop present to discern the language used 0100 9/28. (Connelly, MA)
- 1530 VATICAN CITY, Vatican Radio has begun a broadcast of Mass in Polish for listeners in Poland. Sundays only at 1530 on 1530 plus shortwave. An additional broadcast in Esperanto was begun to Europe and North Africa at 0615-0630 on 1530 and shortwave, Thursdays only. (SCDX 1/23)  
 +0608 2/19, OM/YL in romance language and possible R. Vatican mention o/low het/growl, w/WCKY-1530 off, but badly slopped by WPTR-1540. (Connelly, MA)
- 1538 INTERNATIONAL WATERS, Voice of Peace still here, now relaying news bulletins in Hebrew on the hour from IBA's network B program. (Arctic 12/5)
- 1538 WEST GERMANY, Mainflingen, occasionally getting by WPTR-1540 slop, bits of GG talk, 0059 9/28. (Connelly, MA)  
 +Good w/man in GG o/WPTR-1540 slop 0303 7/19. (Connelly, MA)  
 +Strong carrier, some choral and orchestral mx, but signal badly diced up by WPTR-1540 garbage 0536 11/12. (Connelly, MA)
- 1539 WEST GERMANY, Mainflingen, DLF, likely the source of 1 kHz low-side het on WPTR-1540 0510 11/23. (Connelly, MA)  
 +Poor-fair around 0000 11/25. (Hutton, GA)  
 +Surprisingly strong w/loud het on WPTR-1540 without mechanical filters switched in. With filters switched in, quite strong w/OM in GG 0303 12/9. (Eckman, PA)  
 +2337 12/28, surprisingly good despite WPTR-1540, also 0435 12/30, excellent 0549 12/31, w/classical mx, OM in GG. (Eckman, PA)  
 +0710 1/13, loud w/pop mx; heavy WPTR-1540 interference. (Connelly, MA)  
 +0458 3/4, poor-fair w/YL GG vocal, WPTR-1540 nulled. (Connelly, MA)  
 +0510 3/16, obliterating 1540 stations w/OM in GG. Weaker by 0530. (Eckman, PA)
- 1546 GREAT BRITAIN, London, Capital Radio, strong T40 type complete w/commercials. The young 'uns choice. (Hall-Patch, ENGLAND)
- 1546 UKRAINE, Vinnitsa, suspected here, talk in noise 0302 7/19. (Connelly, MA)
- 1548 GREAT BRITAIN, 0615-18 2/19, a BBC local here w/pop mx, then OM in EE w/detailed weather forecast. Mersey River mention so likely R. City in Liverpool, fair over a pack of other stations. (Connelly, MA)  
 +0600 3/16, strong carrier w/bits of possible EE. Soon lost. (Eckman, PA)
- 1548 UNID, carrier only 0629 12/9. Good guess might be some of the British stations here. (Eckman, PA)  
 +2250 12/28, carriers noted, no audio; also 0550 12/31, strong but no audio possible. English low power stations? (Eckman, PA)
- 1554 FRANCE, Nice, probable, fadey carrier hitting strong peaks; occasional talk by woman noted through above average CBE-1550 slop 0534 11/12. (Connelly, MA)
- 1554 GABON, Libreville, 2143 12/15, FF OM announcer. (Bailey, MA)
- 1554 UNID, 0420 4/25, carrier heard. No audio but given report of Africans having not moved Libreville a possibility. (Foxworth, NY)  
 +Looping Africa 2327 11/24. (Hutton, GA)  
 +0420 5/20, het against Cayman-1555; DF points to Africa. (Connelly, MA)
- 1557 FRANCE, Nice, good carrier 0350 12/9. Excellent when rechecked after 0600 w/FF program. Cayman-1555 had cut carrier 0433 which made things less cluttered around this area. (Eckman, PA)  
 +Poor w/man in FF, bad WPTR-1540/CKLM-1570 slop 0625 12/10. (Connelly, MA)  
 +0642 12/25, w/FF mx, much WQXR-1560 splash. (Eckman, PA)  
 +0659 12/27, excellent signal w/YL in FF. Also 0430 12/30, at local level w/YL in unID language, scheduled for PP. 0555 12/31, strong w/apparent s/on. (Eckman, PA)  
 +0619 1/13, good w/YL in FF. (Connelly, MA)  
 +0500 1/16, fair-good w/OM AA vocal during multi-cultural program. (Connelly, MA)  
 +0601-45 1/28, FF announcers, mx, best signal from them this season. (Eckman, PA)  
 +0448 2/4, nice to good peaks w/AA mx, then YL in FF. (Connelly, MA)  
 +0447 2/25, poor in slop w/Slavic sounding talk. Noted w/TT 0541 same date. (Connelly, MA)  
 +0505 3/13, fair w/OM/YL conversation. (Eckman, PA)  
 +0425 4/18, good signal. (Stanbury, ON)

- 1557 **MALTA**, Cyclops, broadcasting resumed 1900-2000 in AA, EE and FF. ID as Radio Mediterranean. Financed by Malta government and not confirmed by Deutsche Welle. Libyan relay begins now at 2230. (Arctic 12/5)  
 +0605+ 12/20, AA chants u/FF voice, both good level in tail end of good TA opening, other nights had FF alone here. (Foxworth, NY)  
 +0601-06 1/28, appears to be the station w/AA chants u/powerful signal from Nice. Sounds like Foxy's 12/20 logging. (Eckman, PA)  
 +0315-0400 4/22, good signal w/OM/YL alternating in GG. Deutsche Welle ID by OM 0350 followed by Deutsche Welle IS. OC till 0356 when IS repeated till 0400 when new GG program started. About level w/Cayman (as seen on SB-620) but much WQXR-1560 slop. (Eckman, PA)
- 1557 **TUNISIA**, 0403 4/27, loud AA mx, an OC heard to 0400; and AA mx at 0402, then YL in FF at 0406. Not sure if all same station. Local WQXR-1560 still on so not perfect copy though strength was there. (Foxworth, NY)
- 1557 **UNID**, 0648 12/18, w/light mx, FF announcers, some audio noted 0608011 12/10. (Cartwright, PA)
- 1562 **INTERNATIONAL WATERS**, rock mx in and out of CKLM-1570 splash after WQXR-1560 s/off 0516 9/30. (Connelly, MA)
- 1566 **SWITZERLAND**, Sarnen, assumed to be the signal here w/recent pop mx (Billy Joel etc.) around 0623 11/26. Nice-1557 was only other TA audible at this time.  
 +Ex 1562, s/on 1700; also on the air mornings to 0700 or 0800. (MWN 12/78)  
 +0604 12/19, excellent in GG, 0630 mx, then mx, not consistently heard. (Foxworth, NY)  
 +0701 12/27, strong carrier 0459 12/30, apparent s/on. 0557 12/31, w/IS 0600 s/on w/OM in GG w/nx. (Eckman, PA)  
 +Not noted during early December openings but w/strong carrier and some audio 0647 12/18, w/instrumental mx, 0500 12/20, w/apparent s/on. (Cartwright, PA)  
 +Presumed 0632-45 12/25, strong signal w/light mx, possibly OM in GG at 0645. (Eckman, PA)  
 +0617 1/28, very good w/light mx. Still strong 0650. (Eckman, PA)  
 +0546 2/19, to fair peaks w/OM in GG o/u CKLM-1570 splash. (Connelly, MA)
- 1566 **TUNISIA**, Sfax, 0500-0520 3/13, w/typical AA chants/mx. Checked shortwave outlet on 7225 kHz, and found // for positive ID. Should be easy catch now. (Eckman, PA)  
 +0447 4/1, suspected w/apparent FF talk by OM, then definite AA chants to good peaks. Somewhat dogged by CKLM-1570 splash. (Connelly, MA)  
 +0434 4/21, good w/OM AA chants, audio "hollow sounding"--perhaps the two transmitters weren't phase-locked together. (Connelly, MA)  
 +0426 4/22. Sfax appeared to be the one w/OC and apparent s/on at 0430 w/OM in unID language. Faded soon after. WQXR-1560/CKLM-1570 slop. (Eckman, PA)
- 1570 **INDIA**, Delhi, 0130 11/17 s/on w/Hindi nx weak. (McGovern, IRELAND)
- 1570 **TUNISIA**, Sfax, will change from 5 kw to 1200 kw. (MWN 9/78)
- 1575 **EAST GERMANY**, Dresden, Beeskow, Keula and Werda, Berliner Rundfunk. (SCDX 12/5)  
 +Dresden 20 kw, others 5. (MWN 12/78)  
 +2317 12/13, regularly evenings and past 0000, w/WQXR type program (classical mx), no announcer noted. (Cartwright, PA)  
 +2200 12/25, fair signal. (Stanbury, ON)  
 +0501 1/16, assumed the one here w/YL in GG, fair. (Connelly, MA)  
 +0406 1/13, someone here w/instrumental mx, cx suggest East Germany. (Stanbury, ON)
- 1575 **ITALY**, Bari, 0648 12/27, w/light mx, 0012 12/29 w/OM in II. 0552 12/30, w/mx. 0459 12/31 w/tones and familiar s/on tune often heard on RAI shortwave. (Eckman, PA)  
 +0725 1/8, w/OM in II started good, faded fast, carrier gone by 0745. (Straus, NJ)  
 +0605 1/28, assumed here w/light mx. By 0703 check, Madrid seemed to be dominating. Strong signal at 0605. (Eckman, PA)  
 +0645 2/12, OM II talk, European pop vocals, excellent. (Straus, NJ)  
 +0543 2/19, fair w/talk by YL, then RAI theme mx. (Connelly, MA)  
 +0625 2/19, excellent w/OM II talk, into 0630 nx. (Straus, NJ)
- 1575 **SPAIN**, Madrid, R. Peninsular, 0602 s/on mornings, best 12/18, 19, 20 w/at least 5 minutes of nice guitar IS before announcer says "Trabajadores", giving frequency as 190 meters, 1575 kHz. Former 989 kHz--not listed in Dario's ITU

- information last year. Completely dominates frequency at 0600 and is as reliable as any European this season. (Foxworth, NY)  
+0632 2/19, dominant and loud w/OM in SS. (Connelly, MA)
- 1575 <sup>2</sup> UNIDs, definitely two signals here messing up the audio badly around 0612 12/9. Perhaps Tunisia and someone else. Is new East German on regular schedule yet? (Eckman, PA)  
+Spain or Italy, 0500 4/21, s/on w/time pips then talk in romance language (Audio too murky to tell if SS or II). (Connelly, MA)
- 1578 <sup>t</sup> PORTUGAL, Canidelo, tentative per DF on TRF, noted w/orchestral mx occasionally surfacing through heavy slop/pronounced het on CBJ-1580 0035 8/25. (Connelly, MA)  
+Poor w/soft mx 0005 10/13. (Connelly, MA)
- 1578 <sup>2</sup> UNID, Portugal?, opera here at weak level 0140 7/5. (Connelly, MA)
- 1579 PORTUGAL, 0325 12/24, quiet mx, 0715 12/27, noted on 1578.0 (Foxworth, NY)  
+2330 1/5, light classical mx; signal measured as 1579.03 (Straus, NJ)  
+0656 12/30 on 1578 w/OC until 0700 s/on w/OM in PP. (Eckman, PA) (seems they can't make up their minds, should settle down soon.--es)
- 1584 SPAIN, 0523 4/24, finally a clear signal on this frequency w/piano and other nice mx, w/OM in SS, alone on frequency. Peaked for a few minutes and out. LSR. (Foxworth, NY)
- 1584 <sup>2</sup> UNIDs, 12/18, many signals, one about 150 Hz high. At 0700 BBC-type 6 pips noted. Also 12/19 w/many signals. (Foxworth, NY)  
+At least two stations here w/SAH's 0657 12/27, no audio. Also 0550 12/30 w/several carriers. 0700 time pips and unfamiliar IS heard w/mess of carriers. Hard to believe maximum power here is 2 kw. (Eckman, PA) (just like our GY frequencies.--es)  
+0650 12/25, fair-poor signal no audio heard. As Chuck Hutton noted, it's rather pleasing to hear something on a TA graveyard channel. (Eckman, PA)  
+0709 1/13, TA GY frequency. Many signals here, pushing up to strong RF level, jumble of audio. (Connelly, MA)  
+0638 1/28, usual mess of carriers here, no pips or IS's noted at 0700. (Eckman, PA)  
+0557 2/19, loud het-growl. (Connelly, MA)  
+0434 4/22, typical pack of carriers here at good level w/no discernable audio. (Eckman, PA)
- 1586 WEST GERMANY, Langenberg, WDR, very good (entertainment quality) w/swing jazz 0300 7/19. (Connelly, MA)  
+Excellent w/man in GG, then ballad. Audible on TRF 0054 9/28. (Feltman, PA)  
+To good peaks but quite fluttery. 50's style ballad 0055 9/28. (Connelly, MA)  
+Fair w/GG man and some really nice piano jazz 0525 10/12. (Thomas, FL)  
+Fair-good w/light orchestral mx 0543 10/29. (Connelly, MA)  
+Poor w/GG nx or discussion 2331 11/8. (Everitt, OK)  
+Good w/light classical mx, then man in GG 0531 11/12. (Connelly, MA)
- 1593 WEST GERMANY, Langenberg, here ex-1586, very good w/man in GG 0506 11/23. (Connelly, MA)  
+Fair 11/25 evening in poor TA cx. (Hutton, GA)  
+400 kw day/night but 800 kw from local dusk to 2305. (MWN 12/78)  
+Finally definitely IDed here w/very good signal evening of 12/9. Excellent after 0256 12/9 though a bit more splatter evident than when it was on 1586. (Eckman, PA)  
+0546-0605 12/10, classical mx, YL w/brief talk then OM w/nx. Also 2337 12/13 w/mx better early AM than evenings. (Cartwright, PA)  
+0657 12/27, w/second station also 2252 12/28 w/OM in GG. 0301 12/29 fair signal alone on channel. (Eckman, PA)  
+0527 12/31, to fair peaks o/SAH; Muzak o/buckshot from nulled WUNR-1600 pest. (Connelly, MA)  
+0527 12/25, good w/OM in GG, not noted later in evening despite good high-band conditions. (Eckman, PA)  
+0400 1/13, finally w/some audio. Strong signal but this certainly is a much more difficult channel than the former 1586. (Stanbury, ON)  
+0503 1/16, fair w/OM reading nx in GG. (Connelly, MA)  
+0617 1/13, excellent, killing adjacent domestics, big band mx.  
+0630 2/10, poor in WQW-1590 slop, muzak, then YL in GG. (Connelly, MA)

+0514 2/11, good on peaks w/OM in GG. (Connelly, MA)  
 +0624 2/19, excellent w/choral type GG vocals. (Straus, NJ)  
 +0630 2/19, good w/light instrumental mx, then OM in GG. (Connelly, MA)  
 +0503-05 2/25, excellent w/GG nx, weather, then Brahms lullby IS and WDR ID.  
 (Connelly, MA)  
 +0455 3/4, poor in WQQW-1590 slop; uptempo instrumental mx. (Connelly, MA)  
 +0500-20 3/16, loud and clear w/GG announcers, mx. (Eckman, PA)  
 +0441 4/1, fading wildly from poor to good w/WUNR-1600 nulled, uptempo Muzak.  
 (Connelly, MA)  
 +0400 4/18, strong signal noted. (Stanbury, ON)

1594

HOLLAND, Hoogezand, 2218 6/8/78. //674, 890. (Hall-Patch, ENGLAND)

1602

WEST GERMANY, München, BR, fair but fadey w/mx 0310 6/3. (Connelly, MA)  
 +Good carrier, traces of audio 0415 9/17. 1586 yielded only a poor carrier/het.  
 (Eckman, PA)  
 +Bits of piano mx and vocal in WUNR-1600 slop 0057 9/28. (Connelly, MA)

1602

? UNIDs, 0553 12/31, carriers here at fair level. (Eckman, PA)

1611

LIBYA, Voice of the Holy Quran has been heard testing here. Perhaps Mebo II?  
 (Arctic 9/8)  
 +Libyan Radio (presumably via MEBO II) logged here from 0415 tune in 2/21,  
 w/Islamic chanting, //6210a. Both frequencies had faded out shortly after  
 0430. (Stanbury, ON)  
 +MEBO II 0415 4/13, stronger than shortwave // 6205a w/Islamic chanting.  
 (Connelly, MA)  
 +0315 4/18, by 0325 was as strong as 6205. At that time was the only BCB TA  
 detectable but by 0400 or shortly thereafter, a good high band opening had  
 developed. So, while Libyan Radio continues to use it, 1611 should serve  
 as a pretty effective pilot signal. (Stanbury, ON)  
 +LIBYAN ARAB JAMAHIRIYAH (address your letters this way for Libya). 0410  
 4/16, Mebo II ship transmitter in Tripoli harbor w/Quoranic chants, no talk,  
 good level through 0425 fade out. Fully //6206 shortwave which is heard  
 quite a bit later in the morning. Neither is on every night. 1611 heard  
 several mornings in mid-April during period of good TA cx and is on somewhat  
 before 0400. (Foxworth, NY)

AFGHANISTAN. The new transmitter sites are Herat, Kandahar and Balkh; now under  
 construction. (Arctic 11/17)  
 R. Afghanistan has been renamed Ariana Afghan Radio and TV Service. (SCDX via Arctic)

ALBANIA. Radio Tirana has dropped all relays of Radio Peking Foreign Service.  
 (Arctic 8/27)

1358 is now used by the external service of R. Tirana early in the mornings: 0500-0530  
 in Bulgarian; 0530-0600 in Greek; and then relay of the home service. (Arctic 7/14)  
 There seems to be some doubt whether they built their 300 kw transmitter on 648 kHz.  
 Since they lost the friendship and financial support of Peking, maybe they couldn't  
 afford the new station. (MWN 12/78)

Frequencies after November 23, 1978:

648 Rogozhina, 300 kw	1323 Shkoder, 15 kw
963 Rorce, 15 kw	1359 Tirana, 50 kw
972 Puke, 20 kw	1395 Luschnje, 1000 kw
990 Kukes, 15 kw	1431 Perschkopi, 20 kw
1215 Luschnje, 500 kw	1458 Luschnje, 500 kw
1305 Gjrokaster, 15 kw	

Low power on 765, 837, 864, 927, 936, 981, 1071, 1170, 1260, 1341, and 1494.  
 (Telex 12/1 via Denis Beauregard)

Gjrokaster is on 1294 ex 1296 and 1298. (MWN 4/78)

ALGERIA. Radio Algiers has EE and SS news bulletins after the main FF news on Network  
 3, on 1304, 890 and 251, about 1120 GMT. (SCDX 8/1)

The Voice of the Free Sahara (clandestine) is heard over R. Oran and not from Bechar,  
 on 575 with AA 2100-2130 and SS 2130-2200. (SCDX 9/12)  
 Algiers 1-891 kHz, 200 kw. Algiers 3-1422 kHz, 40 kw. (NZDXT 1/79 from WRTH newsletter)  
 Ain Beida has moved to its new frequency, 531; the only Algerian to do so so far.  
 (Arctic 3/9)

ANDORRA. It is possible that there will be an Arab controlled station in Andorra in addition to the present two commercial stations. (MWN 6/78)  
The French government is preparing Sud Radio to increase their power considerably. (NZDXT 5/78)

ANGOLA. Radio Nacional de Angola operates four MW stations: 702, 944, 1088, and 1367. 702 and 1088 are on the air 0500-0100; 1367 is used 1630-0100, and 944 up to 0100. Regional stations are: 1187 Malanje 0600-2200; 1214 Mexico 0630-2200; 1295 Manongue 1800-2300 and 1200-1500; 1010 and 1160 Huambo 0545-2200--announces 1594 instead of 1160; 1232 and 1313 Huila; Lubango 0545-2200; 1502 Benguela 0450-2400--announces 1578 in parallel and seems to use 10 kw. (Arctic 7/14 and 8/27)  
Radio Nacional de Angola uses 944 and 1088 for B programming, 0715-0900, 1600-2300. Sundays 1615-2100. Emissor Regional de Moçamedes-1331 now signs off at 2400. (Arctic 10/20)

The Voice of Namibia, presented by the South West Africa Peoples Organization over Radio Nacional de Angola, Luanda, currently uses 1088 kHz 1630-1700. (SCDX 11/7)  
Most Angolans are still on old channels. (Arctic 12/5)

AUSTRIA. Stations with 10 kw or over are:

520 Leitzen, Innsbruck and Linz; each 10 kw  
584 Klagenfurt-See, (25 kw); Salzburg (10 kw); Vienna (600/240 kw)  
1025 Mariafurr (10 kw); Graz-Dobl (100 kw); Linz-Kronsdorf (100 kw);  
Dorbirn-Lauterach (50 kw).  
1475 Vienna (600 kw evenings).

Programs in parallel on these stations are a mixture of OE-1, OE-3, and OE-Regional. There are 78 50 kw and 3 100 kw stations in Austria on 584, 629, 674, 773, 890, 962, 1052, 1124, 1313, 1394, 1457, 1475, 1484, 1546, and 1594. A number of these low power stations relay the various regional programs. (MWN 6/78)

ORF has plans for a major face lifting operation. In addition to adding new high gain antennas, a new 250 kw transmitter is under construction (for shortwave?) at Moosbrunn; should be operational by 1983 (ASWLC via NZDXT 8/78)

BELGIUM. The new transmitter on 1124 is now called "La Louvière". Power is 10 kw. BRT1 is on extended schedule each night from Mon/Tues when they have a special program for seamen in DD/FF 2345-0015 LT. The old 926 Wavre transmitter is being rebuilt and will carry BRT2 later, possibly with higher power on 1188 or 1512. Veltem-1511 will soon increase from 20 kw to 150 kw. Possibly this will be in November; no frequency given, but 540 could be a possibility. The new official name is Radiodifusion Télévision de la Communauté Française de Belgique. (Arctic 8/27)  
Liege is on 1305; March on 1233. (SCDX 12/5)

The new transmitter with BRT2 on 540 has started on 3/1 from Wavre-Tombeek, not Veltem. Transmitter used to be on 926; power is 150/50 kw. Other stations:  
621 RTB1 (150 kw?, Wavre) 1233 RTB2, 50 (or 5?) kw, Liege  
927 BRT1, 300 kw 1305 RTB2, Namur (Marche?), Brabant, Walloon, 10 kw?  
1125 RTB2, 10 kw, Hainaut 1512 BRT2, mostly 20 kw.  
1188 BRT2, 50 kw (Telex 1/1 via Denis Beaugerard)  
1585 and 926 BRT1 has programs for foreign workers on Saturday 0715-0900. (Arctic 5/20)

BENIN. Construction has begun on a new 10 kw MW transmitter in the northern part of the country, Radio de Parakou. Construction is being financed by West Germany. (SCDX 8/1)

BOPHUTHATSWANA. By the end of the year a new station will be on the air, Radio Bophuthatswana, in direct competition to SABC's Tswana Service FM. Richard Ginbey doesn't think that Radio B will be exclusively on FM. The commercial Division of the Tele Dept. in Pretoria is responsible for frequency allocations. (Arctic 8/27)  
A group in Johannesburg has applied to the Bophuthatswana government for permission to operate what they call southern Africa's first gospel station (what about TWR-Swaziland?). If granted, they hope to be on the air in five months, too optimistically. Richard Ginbey notes that although not recognized by most governments of the world, this country is independent of South Africa; it formerly was British Bechuanaland (not to be confused with the former Bechuanaland Protectorate, now Botswana). (Arctic 10/20)  
Definitely a new MW country to try for. A license has been granted to Southern Sun Hotels and Kirsh Industries to establish a new commercial station, on with tests by the end of the year. New station will operate 24 hours on MW (plus possibly FM) in EE and possibly in Afrikaans also from Ga Rankuwa near Pretoria covering the Transvaal and Northern Free State regions of South Africa. All programs will be live. This means that listeners in many parts of South Africa will have for the first time an alternative to SABC operated commercial networks. (Arctic 2/23)

### BULGARIA.

701 Sliven is a new transmitter with 5 kw.  
962 According to EBU this is Sofia; some DXers, however, indicate that it can be the old 1178-Blagoevgrad coming to 962 via 1510. (Arctic 9/22)  
1016 The new Bulgarian noted here by EBU will certainly interfere with the nearby Istanbul transmitter on the same frequency. (SWNS)  
Stara Zagora-1161 now 500 kw with Program 1. (Arctic)  
Radio Sofia has added a MW channel for its programs in FF 2100-2130, 1223 kHz //9700 //7670. (SCDX 1480)  
Varna (not Kurdjali) is on 1124. Petritch is on 716 with Program 1; St. Zagora is on 872 with Program 2. (MWN 6/78)  
Shumen-962 was taken out of service in March 1978. Plovdiv now had 2nd program with 30 kw; Petrich-746 now uses 500 kw for first program. (Arctic 7/14 and 8/27)  
Radio Sofia reported on 1511 with Home Service. (MWN 9/78)  
Plovdiv is on 647 with 30 kw and Petrich is on 746 with 500 kw. (NRC via MWN 11/78)

CABO VERDE. All stations are nationalized, so there is no more Radio Clube there. (Denis Beauregard, from Telex)

CAMEROON. A weak FF West African has been noted by Richard Ginbey around 1900 on 899, with much co-channel interference from RAI. Bertoua-971 operates 0530-2300. Douala-1106 s/on 0530 with FF and EE IDs. (Arctic 7/14 and 8/27)

### CANARY ISLANDS

720 ECS4 R. Atlantico ex 1097  
882 EAK64 R. Popualr de Tenerife ex 1133  
1008 EAJ50 R. Las Palmas ex 953  
1215 EAK92 R. ECCA ex 1268  
1341 EAJ43 R. Club Tenerife ex 1142.  
1494 ECS16 La Voz de la Isla de la Palma ex 1385. (Arctic 12/2)

CHAD. "La semaine Africaine" has reported that Thomson-CSF will supply new transmitters for Radiodiffusion Nationale Tchadienne. There will be a 100 kw transmitter, with a 20 kw standby. Another 20 kw station will cover N'djamena area.

A Frolinat (guerrilla station) has been operating since November 1977 in the Tibesti mountains and has been heard all over Chad. Frequency unknown. (Arctic 7/14)

According to TV news, the broadcasting house in N'djamena was burned down in recent riots. So possibly no radio in Chad at the moment. (Arctic 2/23)

CLANDESTINE. The Polisario Front's Voice of the Free Sahara is now broadcast in the external service of Radio Algiers on 575 from 2100-2200. (SCDX 6/27)  
There are from 100 to 300 transmitters, mostly located near the northern border, in Croatia. (SCDX 10/30)

Clandestine Stations--Middle East:

Voice of Arab Lebanon--reported on 1460 in June 77

Cambulat Radio (Turkish Cypriot) 1382 v

Voice of Cyprus (Turkish Cypriot) 0500-0700, 0900-1200, 1500-1700 on 755 in Turkish, Greek and English.

Voice of Lebanon (pro-Phalangist) 866 and 6550

Voice of the Oman Revolution: 1124 and 1448 at 2000

Voice of Palestine: 1508 from Syria; 1035 via R. Baghdad; via R. Algeria on 529, 548, 980

Radio of Patriots: (anti-Shah), 539, 1124, 1250, 827 (DSWCI 4/78)

CYPRUS. BFBS Cyprus-1502 is now 0459 (Sundays 0559)-2230 LT; the carrier stays on all night with no modulation. A new 10 kw station hopes to be opened on 1089 early 1979. (Arctic 8/27)

Radio Bayrak has been heard in England with EE and Greek service 1000-1300 and 1600-1900 on 1490. (Arctic 11/17)

There are plans for 2 x 50 kw transmitters for the Turkish program. Bayrak Radio said they were not changing frequencies on 11/23. (MWN 12/78)

1095 with 10/7.5 kw and 1500 kHz with 2/5 kw are the only frequencies used for BRT, Bayrak Radio and TV. English is aired 1300 and 1900 only on 1500 kHz. (Arctic 1/12)

CZECHOSLOVAKIA. A new LW transmitter will (has?) begun service on 272 kHz with 1500 kw from Topolna. Contrary to earlier report, Jihlava is on 1585 not 1331 with 14 kw. (SCDX 7/25)

Praha-Inter now uses 1070 kHz from 0730-1400 and 0000-0200. (Arctic 7/14)

There is no CSSR station on 1331. 1070 is used only between 0730-1400; no night transmissions. (Arctic 8/27)

The three transmitters formerly on 272 when Topolna was under construction are now off that channel. Two (Strakonice and Olomouc) are silent; Moravske Budejovice is on 899 relaying the South Moravian regional. (Arctic 10/20)

899 signs off at 1500. (MWN 9/78) A Czech jammer is used against Radio Free Europe on 720 (SCDX 10/17)

Zelena vlna (green wave) is aired normally on 1070 only on Fridays 1300-1700 and Sundays 1500-1830, but for a couple of weeks they also have been broadcasting this program irregularly on Saturdays with s/off 1700. (Arctic 11/3)

Prague is on 1070 with Praha-Inter from 0630-1300 and 2300-0100. (DSCWI via MWN 11/78)

Radio Free Europe jammers on 719 are located in Pilsen. Call CW -S5; Brno G7, Bratislava L1. Other jammers are located near big cities. Calls heard but unknown locations are I2 and P2--Prague--Z3. Most of these jammers, especially S5 and Z3 are audible also on shortwave. Power on MW is about 30 kw. (MWN 11/78)

Hvezda uses 846 (ex 701) and 900 Brno for daytime frequencies. 1071 is also being used during the night via a transmitter in Praha 000-0730 and 1400-2400. Praha is using three new frequencies: 900 (Plzen ex 953) 1332 and 1593, all as daytime channels. Bratislava continues to use 702 and 1098 exclusively. Zelena vlna also broadcasts on Saturday, despite report here that it didn't. (Arctic 12/2)

Jihlava with power of 14 kw is new on 1331 with First Program. (Arctic 5/20)

1287 is no longer assigned to the Czechs; in addition to the station on 1071 in Mnich Hradiste, there will be a station in Prague, likely the one ex 1286. (MWN 1/79)

DENMARK. Copenhagen (Korstedvester) 1438 was taken out of service on June 7, 1978. This was Europe's oldest transmitter, used from 1934. (DSCWI via Arctic 7/14)

EAST GERMANY. 557 and 1052 Radio DDR-Ferienwelle is now on the air with own programs from studio in Rostock.

Berliner Rundfunk, Bernburg-1430 s/off 2100 Tues-Fri. (Arctic 5/5 and 5/20)

Silent periods: Schwerin-611 Tues 0900-1200; Burg-782 every second Tuesday till 0500. (MWN 4/78)

ADN, the East German news agency, has reported that the new Geneva plan will have a positive effect on reception conditions for the East German stations.

The new superpower station on 1575 in Neubrandenburg seems to have been testing through mid-June. (Arctic 7/14, 8/27)

Power increases 11/23: Neubrandenburg-657 2000/20 kw; Burg-783, 1000 kw; and Neubrandenburg-1575 500 kw. Burg also on 1044 with 1000 kw. (MWN 9/78)

The transmitter at Burg on 908 is still in operation despite promises to West Germany to stop. Noted on Wednesday and Friday 2115-2215 in Italian. (Arctic 10/20)

Radio Berlin International will be using 1359 instead of 1511 after Nov. 6, for broadcasts to Europe. (SCDX 11/7)

Burg, Dresden, and Suhl each are 250 kw on 1044 kHz. (MWN 11/78)

Radio DDR Messewelle will stay on MW. Frequency is not known, but probably from Leipzig-531. (Arctic 11/17)

EGYPT. Radio Cairo reports that several contracts have been signed recently to improve regional broadcasting and to set up new regional stations. (Arctic 5/20)

Voice of Arabs noted on new 1106 with 1000 kw from 0300-0800 and 1630-0035 and Hebrew only from 1200-1500 and from 1100-1200, 1500-1600 the "Voice of Palestine". (DSCWI 3/78)

New stations are Alexandria-1169 1 kw and Abul Zahal-1340 100 kw. (NZDXT 5/78)

Quena-1178 now on with 1 kw. Aswan, 10 kw uses 1273, ex 1277. Jamming stations operate from Cairo covering the Israeli broadcasts in Arabic on 737 and 1025. (Arctic 7/14 and 8/27)

Voice of the Arabs is now on 1106 with 1000 kw, //620; 0100-0600 and 1430-2235. (MWN 9/78)

Abu Zabal, Egypt, and Kuwait on 1340 and 1345 are on at the same time with religious programming and can be easily confused. Kuwait is religious 0225-0230 followed by ID and news at 0230.

ETHIOPIA. Voix de Revolution in FF 1700-1859 on 990 and shortwave. (Telex via Denis Beauregard)

The programs of the Voice of Revolutionary Ethiopia International Program from 1530-1900 have been heard on 7245 in addition to 9595 and 989. (SCDX 1480)

FINLAND. Kuopio-755 is now 10 kw, ex 20 kw. Vaasa-1241 has dropped from 50 kw to 25 kw. (Arctic 7/14)

The new daily EE service from Radio Finland can be heard on 254 in addition to 557 and 962 at 2015. (SCDX 10/3)

R. Finland is on 254, 558 and 963 in EE, 2105-2025 all days except Saturday. Also Thursday, Friday, and Saturday 2025-2045. (Telex via Denis Beauregard)

Abo 2 is on 1278 ex 1412. (MWN 1/79)

FRANCE. France Inter, Lille-674 and France Inter, Lyon-710 have been taken out of service. Marseille 1-674 has increased to 600 kw; Bastia 2-1070 is now 20 kw; Ajaccio 2-1160 is now 20 kw; Marseille 2-1241 is now 150 kw. (WRTH via Arctic 7/14)

A magistrate ruled that since free speech is allowed in the country, a pirate Radio Fils Blue could not be prosecuted by the government. The government then took steps to tighten up the laws, but the action in the National Assembly showed that the government was not opposed to certain local stations under certain conditions. The whole question of regional stations will have to be considered again. The pirate stations continue to test the situation. Freedom in French radio may be closer than anyone could have imagined. (Billboard 8/12 via Arctic 9/8)

Radio Sorbonne was heard on 962 on 11/22 on a Wednesday morning and afternoon; so they are not just on on weekends. (Arctic 12/2)

New frequencies:

France Culture: 603 Lyon, 711 Rennes, 792 Limoges, 837 Nancy, 864 Paris, 945 Toulouse, 1206 Bordeaux, Grenoble, and Pau, 1494 Bastia, Bayonne, Besancon and Clermont, and 1557 Nice.

France Inter: 164 Allouis, 675 Marseille, 1071 six sites, 1161 Strasbourg 1, Ajaccio, Toulouse, 1350 Nice and Nancy, 1485 Tours, and 1584 Toulon. (SCDX 1/16)

Others: Bastia 1071 and 1494, 20 kw; Ajaccio 1404, 40 kw; Lille 1170, 40 kw. (Telex, via Denis Beauregard)

A new 600 kw transmitter on 675 from Marseille will improve reception in southern France of France-Inter. (Arctic 3/9)

CABON. Tchibanga-1575 is new 0600-2230 in FF and vernaculars. Libréville-1554 also s/on 0600 apparently. (Arctic 7/14 and 8/27)

GIBRALTER. Gibraltar Broadcasting Corp. will occasionally use 1089 kHz plus 1458 kHz after 11/23/78. (Arctic 10/8)

GREAT BRITAIN. The IBA Act has extended the present ITV companies until January 1, 1981. (MWN 4/78)

Start Point-1052 will be closed down in 1979. (NZDXT)

A report that Radio Oxford had gone commercial was an April Fool joke gone awry. Radio Hallam tested in April and May and hopes to go to 24 hour schedule during September.

BBC changes under consideration: Fareham R. 1, 1089/ 1 kw; Lisnargarvey R. 1, 1053/ 10 kw; Start Point R. 1, 1053/ 100 kw; Radio 4 Westerglen now listed on 200 with 50 kw.

Four beacons operate in the MW band in England:

543.5	Lichfield	LIC	A0/A2	24 hours
633.5	Lambourne	LAM	A0/A2	24 hours
669.5	Stornaway	STN	A0/A2	24 hours
797	Cranfield	CFD	A0/A2	0700-2100

Tests were noted on 526.5 during June 1 evening announcing test transmission for London area with announcement mentioning E.I.S. and BBC phone number; also a test tone and announcement each minute. This from the Brookman's Park transmitter. (MWN 6/78)

BBC allocations after November 23 will be:

Radio 1	1053 and 1089
Radio 2	693 and 909
Radio 3	1215

Radio 4	200 and 227 plus low powered MW mainly in Scotland and Northern Ireland.
World Service	648 kHz (SCDX 8/1)

BBC has dropped its plans for a new LW station at Westerglen due to interference from the new Polish multi-watt station on the same frequency.

Radio Manx is no longer using 1594 kHz.

BBC will use 1000 kw (2 x 500 kw) from Orfordness in November on 648. Most likely this is the station now on 1295. BBC Daventry 647 will be totally dismantled after November. BBC Start Point 908 will be changed to 3 x 50 kw. These transmitters are now testing until 0720 LT. (Arctic 7/14 and 8/27)

BBC has apparently dropped its plans for 227 kHz for Radio 4 after November 23. Current BBC info lists only 200 kHz for Radio 4. A BBC leaflet lists two stations not listed in the Geneva plan: a new Radio 4 station in Newcastle (Tyneside) on 603 kHz, and an additional Radio 3 in Cambridge on 1197 (Radio 3 uses mostly 1295 kHz.)

A BBC team has been touring the Indian Ocean islands looking for a suitable site for a new relay station. One place visited was the Seychelles. (SCDX 9/19)

Orfordness indicated on 1295 by EBU with 500 kw. Radio 2 will go 24 hours after Nov. 23. (Arctic 9/22, 10/8)

As of 11/23, 38 new BBC transmitters will come into operation along with 28 new multi-frequency aerial systems carrying up to five simultaneous transmissions; 24 new masts have been put up. Crowborough when on 648 is due to have 1200 to 2000 kw later this year. Traffic information will be broadcast on 526.5 kHz, in the London area.

World Service transmitters will be as follows:

1296 (now 1295) Orfordness 500 kw  
648 (now 647) Crowborough 500 kw early AM and PM  
648 (now 1088) Orfordness 50 kw day  
810 (now 809) Crowborough 500 kw

200 kw is due for use in Central Scotland Radio 4. (MWN 9/78)

Radio 2 on 693 and 909 after 11/23 will be 24 hours. BBC hopes to open a local station in Wolverhampton later this year. Ten more local BBC stations are planned over the next two years. (Arctic 10/20)

Metro Radio and Radio and Radio Hallam have been given the go-ahead by the IBA to begin 24 hour broadcasting, as of 10/1/78. Newcastle-603 will have a low powered Radio 4 transmitter on 603. Radio Leeds BBC is on 774. Cambridge will have a low powered transmitter on 1197 for Radio 4. Manx Radio is now using 1367 ex 1295. (Arctic 11/3)

18 new local stations will be on the air during 1980-81. The new locations for BBC locals are Barrow in Furness, Cambridge, Lincoln, Northampton, Norwich, Shrewsbury, Taunton, Truro and York. (MWN 11/78)

New Radio 4 stations are:

603 Newcastle	855 Plymouth
720 Lisnagarvey	990 Exeter
720 Londonderry	1449 Aberdeen
756 Redruth	1458 Torbay
801 Barnstaple	1485 Carlisle

Cardiff and Coventry will be the first areas to get new local commercial stations. The new BBC Local station in Lincoln will be called Radio Lincolnshire. (Arctic 1/12)

24 hour service from Radio 2 has been postponed as was the separation of Radio 1 and Radio 2. Beacon Radio-990 is the latest IBA station to go to 24 hour broadcasting.

GREECE. Messolongion-1070 and Ierapetra-1484 have been taken out of service.

(Arctic 7/14)

After 11/1 the frequency of AFRTS Athens will be 1584. (NZRDXL via Arctic 11/3)

Thessaloniki, YENED, heard on 1179. (Arctic 10/8)

Key stations: Athinaí (ERT3 and ERT2 nightpower)--666; Athinaí (ERT1)--729; Athinaí (ERT2)--1386. Regional stations: Zakynthos--927 (//Patrai-1485); Kerkyra (Corfu)-1008; Thessaloniki-1044; Komitini-1404; Patrai-1485 (//Zakynthos-927); Volos-1485; Rhodos-1494; and Chania-1512. (Arctic 12/29)

Private stations:

1070 Messolongion  
1200 Agrinion  
1615 Ierapetra (Anatoliki Critis). Operated by government license to overcome the difficulties in ERT reception in southeast Crete. Power 1 kw via a vertical antenna. All equipment is home-made by the owner. Has been heard in Finland on 1614. (Arctic 2/23)

GREENLAND. Grønlands Radio is now on MW as follows:

570 Godthab	25 kw	850 Upernavik	5 kw
650 Godhavn	5 kw	990 Thule	5 kw
700 Simiutaq	20 kw	1100 Angmagssalik	5 kw
750 Umanak	5 kw		

(Arctic 1/12)

HOLLAND. There are plans to completely relocate MW services during the next five years.

There will be two new 2 x 600 kw stations at Flevoland from 10/1/79 on 747 and 1008.

New locals expected may be on MW. Geneva Plan lists frequencies: Rotterdam-828; Den Haag-1035 and 1485; Tilburg-1485, all with 2 kw. STAD, Amsterdam is not due to leave the air until late 1979. (MWN 6/78)

Radio Bloemendaal will move to 1116 in November.

STAD Radio Amsterdam-1250 has an experimental program each Friday AM from 2300-2400. Each Monday 1650-1800 a program in AA and Turkish for foreign workers.

(Arctic 7/14 and 8/27)

All MW stations will move 1 kHz up the dial except Hoogezand which will move from 1594 to 1395. (Arctic 9/8)

The two new Flevoland stations will be 600 kw each. (MWN 9/78)

Radio Bloemendaal is still using 1223 and will do so until September 1979; then will move to assigned 1116. By end of 1979 1224 kHz will be used by a new relay transmitter of Hilversum, in the northeast corner of Holland, near Assen. Radio Bloemendaal will stay on 50 kw. (Arctic 12/29)

CB radio in the 27 MHz band will be legalized on 1/1/80. Hopefully this means that MW pirates will cease. (Arctic 2/23)

A new local in Rotterdam is due this year, either on 828 or 1485 with 2 kw, or on any Dutch frequency in the Plan not yet used. (MWN 1/79)

HUNGARY. Kossuth Radio: 0425 (Sun 0600)-0030 (Sat 0200)

Petofi Radio: 0425 (Sun 0658)-0010

Regionals:

Studio Pecs	873 kHz	1700-1930 (Sat 2000, Sun 2100)
Studio Nyiregygyhaza	1251	1700-1830
Studio Szolnok	1350	1700-1830
Studio Miskolo	1593	1700-1830 (Sat 1900)
Studio Gyor on Szombately	1188; Gyor 1350, and Mosonmagyaróvár 1593.	(Arctic 2/23)

INDIA. Cuttack 970 ex 965; Mangalore 1080 with 10 kw new; Calicut B-1095 ex 1090; Allhabad A 1150 ex 950; Ambikapur 1260 10 kw new; Mangalore 1470 1 kw new; Augarangabad 1520 20 kw new. (Sunspot via NZDXT 4/78)

The Indian government will loosen its ties to AIR, thus leading to more local programming. (Arctic 8/27)

Add: Ambikapore, 1260 and Mathure, 1530. (NZDXT 9/78)

A new Foreign Service transmitter is in use on 701 from Jullundur. (MWN 11/78)

A new foreign service transmitter from Jullundur is on 710, not 702 as reported earlier. 100 kw. (NRC via Arctic 12/2)

Dacca now uses 694 kHz; Rajkot is on 1071, and Calcutta uses 594 and 1134 kHz. (Dacca is in Bangladesh, not India.) (SCDX 12/12)

Deutsche Welle has permission to open a relay station in Trincomalee; plans include a 600 kw MW station. Completion is due in 1980. (MWN 12/78)

INTERNATIONAL WATERS. Voice of Peace has increased power to 80 kw on 1538. Address is P.O. Box 4399, Tel Aviv, Israel. (NZDXT)

This is scheduled 24 hours with AA 0100-0400, Hebrew 1200-1400, English 0400-1200 and 1400-0100. (DSWCI)

VoP intended to close down on Feb. 28 after the Israeli Broadcasting Authority issued a survey indicating very few listeners and advertisers withdrew support. Abie Nathan made a last minute appeal for a meeting in Tel Aviv; 60,000 people showed up, advertising flooded in, and the station stayed on the air. (SCDX 14/79)

Sylvian Tack, who controls R. Mi Amigo reports he has been given a license by President Stroessner of Paraguay. (Broadcast Programming and Production via SWNS)

R. Mi Amigo now uses 80 kw on 962. (SCDX via MWN)

Radio Mebo II is now announcing 1610 kHz with address: P.O. Box 113, Zurich, CH-8247, Switzerland. (Arctic 5/20)

Mi Amigo---R. Mi Amigo will not go off the air, as reported. Full power of 50 kw still used for Dutch broadcasts,

Caroline---As of 9/1, R. Caroline has reduced broadcasting hours. Closes down 0100-0530 Mon and Friday. But has been noted going off at 0100 every day since the announcement. Reduced power used for R. Caroline broadcasts in EE.

Aegir---Station called Weekend Music Radio will use two 3 kw transmitters. Tests using 500 watts on 1562 have begun. Regular service was supposed to have started in September. On 9/11, the anchor chain broke and the ship drifted to the coast where it was seized by the Dutch Coast Guard, ending the brief career of Radio Del Mare. (SCDX 8/22, 9/12, 9/19)

Abie Nathan of the Voice of Peace recently ended a 45 day hunger strike after the Israeli parliament passed a unanimous resolution appealing to him to do so. During the hunger strike, VoP cancelled regular programming and played John Lennon's "Give Peace a Chance" continuously. (SCDX 7/11/78)

The police in The Hague, Holland confiscated 3 MW transmitters on board ships. (Arctic 7/14)

According to newspaper reports, Radio Caroline and Radio Mi Amigo will be going off the air before the end of October. (SCDX 8/15)

These station(s) are using increased power since the beginning of August, apparently 80 kw. A move to 558 seems faraway. A magazine indicated that a religious organization is interested in buying.

A new pirate is on 1565 off the Dutch coast, using an old Army transmitter used in the Congo. Since August 21 Radio Del Mare has used 0.5 kw, to be increased to 7 kw. The ship is Aegir located off the island of Goeree, SW Holland. Studios are located in Marbella; the ship is under Panamanian flag. Announces the old 1562 Veronica frequency.

It is possible that RNI, Radio Northsea International, will return to European waters during 1979. The contract with the Libyan government is now only for a month at a time. They were forbidden to use European waters until sometime in 1979. (Arctic 7/14 and 8/27)

Radio Mebo II---announces 1610 kHz.

Peace Ship---Power is still 50 kw 24 hours a day. FM/SW plans have been dropped. Abie Nathan will close down the Voice of Peace unless he can find two volunteer transmitter engineers. Anchored six miles off the Israeli coast, the station is staffed by international group of Jews and Arabs, broadcasting pop music, news and peace messages on 1540.

Radio Mi Amigo---will go to shortwave; will use a transmitter from Paraguay; expected to be in the 60 meter band with at least 50 kw.

Scan Radio---a new pirate operating in the Sound between Sweden and Denmark. Will be on the air before Christmas, using 1430 kHz. Operated by a group of Britons from a Dutch vessel under the Panamanian flag. Will have 20 hours a day of music, ads, and news, aimed toward Finland, W. Germany, Denmark, Sweden, and Norway. Most programming will be in EE. The Danish government has promised to close down any ship broadcasting illegal programs to Denmark. (MWN 9/78, SCDX 10/17 and 10/24, Arctic 10/20)

Voice of Peace---Abie Nathan is reported to be looking for a 10 kw SW and a 1 kw VHF transmitter.

Radio Mi Amigo announced they will soon start operations in the 49 meter band. Mi Amigo and Radio Caroline have been off the air since 10/10, perhaps installing new equipment. Radio Caroline will soon be operating 24 hours a day. Radio Del Mare will be back in summer of 1979 on 1562 kHz. (SCDX 11/14)

A group of Belgians is outfitting a ship in Casablanca for a new station in the North Sea.

Radio Delmare has made an agreement that Delmare will fill the Mi Amigo hours and Radio Caroline will be on the air at night. (Arctic 12/29)

R. Caroline was off from 10/20 from a generator explosion. (MWN 12/78)

Although reports indicated that Mi Amigo had sunk, later reports were that the ship had been pumped out. Caroline people say the station will be back on the air on 962 or 940 in a month or two. Later information said the frequency would be 774, but the station was not heard after the announced return on 2/18. (Arctic 2/23, 3/9)

#### IRAN. NIRTO programs (?)

557 First station, also 580 and 1188 kHz; all in Persian

1332 Second station, 0300-2300, all in Persian

1555 NIRT International Program; 0320-2200 except Thu/Fri 0400-2200. (Arctic 9/8)

A new local station has started in Tehran, 24 hours. Frequency unknown. Radio Azerabadegan-638 now uses 800 kw from Bonab, 0045-2100. Radio Kerman-1062 now uses 20 kw. Radio Ardabil is now using 1314. Bandar Abbas-1566 now uses 100 kw. (Arctic 8/27)

576 Abadan reported using 600 kw by EBU.

820 Iranshahr monitored here with power of 10 kw by EBU.

1098 Zabol with 100 kw now here; causes much interference within Iran. (Arctic 9/22)

Radio Abadan is heard daily except Sunday in Israel in EE 1300-1500. Mostly music, with news 1400-1415. (SCDX 11/14)

Abadan-576 is on 0100-0400 and on 1080 from 1400-0100 in Farsi, Arabic and English. (MWN 9/78)

An unID Iranian has been heard at 0230 on 882 kHz. Mahabad ex 897 is listed. Sanandaj (?) now heard on 1476 evening. (Arctic 10/20)

Stations of 100 kw or more:

540	Mashad 100 kw	1080	Abadan 600 kw
558	Gheslaghe 1000 kw	1098	Zabol 200 kw
576	Abadan 600 kw	1116	Bandar-Lengah 125 kw
594	Zahedan 100 kw	1152	Tabriz 100 kw
612	Qasr-e-Shirin 400 kw	1188	Tehran 100 kw
639	Bonab 800 kw	1278	Kermanshah 100 kw
694	Mashhad 100 kw	1332	Tehran 100 kw
702	Rasht 400 kw	1385	Ahvaz 400 kw
666	Ahvaz 100 kw	1404	Rasht 200 kw

Abadan-576 is now using 1200 kw 19 hours a day, starting at 0200. The international program moves to 1080 kHz at 1500. (Arctic 6/2)

Tehran on 1188 is now 300 kw. (MWN)

Abadan is now on the air on 576 at 0150. Radio Bandar e tingeh now uses 1116 with 2 x 125 kw. In English at 1900. A new station on 605 has been reported in Farsi; perhaps the 20 kw station in Zabol, listed in Geneva Plan on 603. (Arctic)

There is a shortage of electricity in Tehran. TV and radio stations must close down earlier in the evening. Some stations are off several hours during the day. Many industries have curtailed production by up to 50%.

Ahvaz 1386 ex 1390; Kerman 1062 and Jiroft 916 //1188. Yazad 820 and Marivan 945 are 20 kw. (NZDXT)

IRAQ. The Voice of the Masses is carried on 692 from 0258-2100. On 908 1800-2305; 1035 from 1330-1755 and 2000-2305. (NRC via NZDXT 7/78)

Following stations are new frequencies: 630 with 20 kw; 693 with 1200 kw; 756 with 150 kw; 909 with 100 kw; 1035 with 2000 kw; 1197 with 20 kw; and 1359 with 240 kw. (WRTH Newsletter via NZDXT 1/79)

Kirkuk is new on 629 with 20 kw. (NZDXT)

IRELAND. Tullamore-567 now 500/150 kw will be fulltime 500 kw; Dublin-1291 will go from 5 to 20 kw; Cork-1188 (ex 1250) 10 kw; Annagry (Tir Chonaill)-963 (ex 1250) 10 kw; Ca-roe (Connemara)-540 with 2 kw; and Cahireiveen (Corea Duuibee)-828 (ex 962), 1 kw. RTE will not operate in Dublin and licensing of commercial stations seems likely. (MWN 6/78)

Irish pirates:

1115	Big D Radio	24 hours
1149	R. Carousel, Dundalk	unknown
1151	A.R.D.	0600-0100 (actually on 1149)
1187	Radio Dublin	0700-2300
1322	Capital Radio	0700-0100 (will move)
1395	Radio City	1200-1800 Sat; 1300-1900 Sun
1310	Radio 229	unknown
1580-86	Downtown Radio Dublin	unknown. (MWN 6/78)

Pirates are now on 1118, 1185, 1149, 1286, 1304, 1322, 1358, 1502, and 1586 kHz. (Arctic 10/20)

Radio Telefis Eireann has been authorized to operate a second National Radio Programme. The 100 kw transmitter at Athlone will be used. The programme will meet the needs of younger people but will not be exclusively a pop station. Laws will be introduced in the Irish Parliament to strengthen existing laws against illegal broadcasting. (MWN 11/78)

1251-Dublin RTE 1; 531 RTE Tullamore. (Arctic 12/29)

Alternative Radio Dublin is on 1151 with distorted signal; Radio Dublin is still on 1187. (MWN)

ISLE OF MAN. Manx Radio has been allocated £60,000 to start broadcasting in stereo. They moved on 10/1 from 1295 to 1367. Power is expected to be 4 kw into directional antennas. (MWN 9/78)

Manx Radio will be permitted 4 kw when frequency change takes place in November; there will be an improved antenna pattern. (MWN)

ISRAEL. Yavneh tentatively noted on 1025 at 2255 in England with special Hannukuh broadcast. (DSWCI)

A new Galei Zahal transmitter will be built soon in the Eliat area: should be operational within six months.

IBA is now back to full schedule after the strike which ended April 12. (Arctic)

Galei Zahal has a station on 1223 parallel to 1256. This may be new or a frequency change, perhaps from 1367. (MWN 6/78) (Perhaps this is Beersheva heard on 1224.-fjp)

Eilat-1169 now here ex 1358 with 0.13 kw. Haifa is on 1304 with 20 kw. Yamit is location of the 1439 station. (Arctic 7/14)

531	Jerusalem Program C	882	Bet Hillel B
576	Tel Aviv Program A	909	Eilat B
648	Jerusalem B	1026	Tel Aviv D
657	Tel Aviv B	1170	Jerusalem A
675	Jerusalem D	1206	Haifa B
711	Jerusalem B	1458	Eilat A
738	Tel Aviv D	1440	Yamit B
846	Safad B		(WRTH Newsletter via NZDXT 1/79)

ITALY. The Palermo regional station on 998 is now 2 kw. (Arctic 7/14)

1367 R. Alternativa, Cagliari has been heard in Finland. (Arctic 9/8)

1000 Radio Spazio Campano (ex R. Gamma), Santagata di Benevento.

1237 Radio Elle Estense, 44100 Ferrara is a new local station.

1460 Radio Bruno

1494 and 1594 Radio Elle, C.P. 12, Abbiategrasso (ex 1554). (Arctic 9/22, 10/8)

RAI plans to have Radio 1 on MW only by 1979, Radio 2 on MW and VHF, Radio 3 on MW and VHF with regional and local programs plus a new national Radio 4 network on VHF only (the former Radio 1 VHF network) with classical music and cultural programs. (MWN 9/78)

Italian local stations:

1000	Radio Spazio Campano	1494	Radio Elle, Abbiategrasso //1594
1000	Studio 100, Taranto	1525	Radio Taranto Internazionale, Taranto
1053	Radio Logica, Imola, 80 watts	1535	Teleradio Indipendente, Boissano
1237	Radio Elle Libera Estense, Ferrara	1594	Radio Elle, Abbiategrasso, //1494
1308	Onda Verde, Torre de Picenardi	1594	Radio Roma, Roma
1367	Radio Alternativa, Sassari	1594	Radio Milano International, Milan; testing
1400	Onda Nord, Mondovi	1620	Free Radio Internazionale, Vasto
1450	Radio Bruno, Carpi, 1 kw, ex 1460	1625	Radio Alto Adriatico, Pordenone
1484	Punto Finale, Finale Ligure		(Arctic 10/20)

RAI Second Program now uses 998. Radio Milano International is testing on 1594. (Arctic 11/3) Conflicting reports have them testing on 1490. (SCDX 11/14)

Radio Milano International now heard all over Europe from its new transmitter at Montevecchia. Messina local radio on 1143 noted by EBU, 2 kw. (Arctic 12/29)

Rimini 2 plus one other is reported on 999 kHz. San Remo 2 with 6 kw is on 1188. S/on on 10/19/78. (Arctic 12/2)

The people behind the pirate ABC Europe are reported starting a legal private station in Italy, called Radio Nova International, from Monte Fontane near Campo Rosso. Programs will be mostly directed toward the Italian and French Riviera on FM stereo, with most programs in FF. Station hopes to go on shortwave as well. (no MW?-fjp) (SCDX 2/6)

An UNID station noted on 1235.5; perhaps a private station. Milan-899 is silent every last Wednesday of the month. (MWN)

Radio Logica broadcasts 24 hours on 1053 with 80 watts. Onda Nord broadcasts 0800 to 1900 on 1400 kHz. (Arctic)

JORDAN. Radio Jordan will undergo a major expansion. The Continental Electronics has agreed to boost R. Jordan at a cost of \$4.5 million. Two million watts will be the power. The present Arabic service will become Radio 1; Radio 2 will include educational and special programs. The EE programs will be extended to two separate programs. (Arctic 9/8)

Continental Electronics will install a 2 megawatt transmitter near Ajlun, to become operational in May or June. (presumed BCB because of high power.) (NASWA)

KASHMIR. Azad Kashmir is on 1512 with 10 kw. Frequency has been measured as 1511.4 (NZDXT)

KENYA. The government will set up three 100 kw MW transmitters in Kisumu, Meru, and Voi. (Arctic 8/27)

National Service in Swahili: Nairobi-612, 100 kw; Mombasa-792, 20 kw; Kisumu-954, 20 kw; General Service in EE: Kisumu-558, 20 kw; Nairobi=747, 100 kw; Mombasa-1080, 20 kw. Eastern Mombasa area from Nairobi-1269, 20 kw in Somali and vernaculars and from Kisumu-882, 5 kw in vernaculars. Voice of Kenya stations ID internally as VOK/MBA Mombasa, VOK/NBI Nairobi, and VOK/KMU Kisumu. (MWN 9/78)

The new frequencies: EE General service, the Voice of Kenya--558, 747, 1080, 1224, and 1494. The National Service in Swahili--612, 1220, and 1359. (SCDX 1/16)

KUWAIT. Kuwait is on 1345 and an Egyptian is on 1340 with Koran program. Both have religious format at 0230, so European DXers are urged to be careful in making ID. Egypt is parallel to 1155. (MWN 6/78)

540 kHz with 1500 kw AA 0215-2210

1134 kHz with 750 kw ditto

1341 kHz with 200 kw 0500-0800 EE; 0900-2000 (AA 0900, Urdu and EE 1700)

(WRTH Newsletter via NZDXT 1/79)

LEBANON. The Voice of Lebanon, clandestine station operated by the right-wing Phalangist group, was hit by rocket fire on July 2 and ceased operation. Station had been heard on 1030 kHz. (SCDX 7/18) Has been heard on again. (Arctic 8/27)

A new 20 kw station is on 850 from Ihdin broadcasting the programs of "Radio of Free and Unified Lebanon." The Voice of Arab Lebanon is now broadcasting on 940 in AA 0450-1000 and 1155-2000. (Arctic 8/27)

A new station called the Voice of United Lebanon with 100 kw MW to cover North Africa and shortwave directed toward the U.S., S. America, and Australia. Station is to be located in Ehden in northern Lebanon. Although the station is supported by the Zghorta of the former Christian president Soleiman Frangie, the station's director says it will be only "nationalist". (SCDX 9/5)

The Voice of Palestine, controlled by the PLO, has been heard in Finland just before s/off at 1800. Sawt al sauda il Palestinia. Scheduled in AA 1100-1200 and 1500-1800. (Arctic 10/20)

Private radio stations will soon be ordered to cease operations, according to the Prime Minister. He said these stations are more dangerous to the security situation than weapons and barricades. The Middle East News Agency said that the right-wing Phalangist station, the Voice of Lebanon, would be considered illegal, despite the station's claim to have a government license. Other stations affected by the ban would include the Voice of Arab Lebanon, run by the Independent Nasirists Movement. (SCDX 11/14)

The Prime Minister has issued an order prohibiting official dealings with "private radio stations". Civil servants, contractors, and state employees face legal action if they deal with private radio stations. (SCDX 12/12)

LESOTHO. Schedule for Maseru is now: Mon, Thurs, Fri, Sat 0500-2205. Tues 0500-2150; Wed and Sun 0500-2235. Almost all programming is EE. (Arctic 1/12)

Lesotho National Broadcasting Service (Radio Lesotho) on 891 operates 0400-2035 (Wed/Sun 2105). 98% of the programming is in Sesotho, not EE. Only 3 time slots a day carry about 2% of the programming in EE. (Richard Ginbey, via Arctic 2/23)

LIBERIA. Adventist World Radio will locate a station in Liberia. The new facilities will include 4 shortwave transmitters and a MW outlet for local areas. Work is expected to start during 1979. (NZDXT 12/78)

LIBYA. A contract has been signed with a Yugoslavian company "to boost radio transmitters in the country".

Mebo II now airs Koran programs from the Libyan Radio, 10-15 miles off the coast. 100 kw is announced, 0700-1900. On 1232 kHz. (Arctic 7/14 and 8/27)

A foreign language program in EE and FF is carried on 1406 from 1410-1600 and 1600 to 1828. (NRC via NZDXT 7/78)

Presumably from the MEBO II, Libyan Radio has been heard with Islamic chanting in Ontario on 6210 and //1610. S/on appears to be around 0400. (SWNS)

The name of the ship Mebo II has been changed to El Fatah and the tender is now called Almasira. The Koran program is now broadcast over 1232 and 1611. (Arctic 11/3)

The ship is no longer owned by Swiss Mebo Ltd. (Arctic 11/17)

A new MW channel has been heard on 1224 with fair signals in West Germany around 2200. (SCDX 8/22)

LUXEMBOURG. Trans World Radio will expand its programming via Radio Luxembourg; from September 1979 their German department will produce a program from Evangeliums-Rundfunk half an hour once a week. Sundays 1930-2000. 1439 kHz. (Arctic 7/14)

Radio Luxembourg will drop its FM format and go mainly for disco music. (Billboard via Arctic 11/17)

MADAGASCAR. Regional stations:

1240 Majunga 1 kw

1286 Diego Suarez 1 kw

1322 Tulare 1 kw

all five stations 0400-2200

1554 Fort Dauphin 1 kw

1562 Tamatave 1 kw

1232, 1268 and 1586 use only 250 watts during the same time.

1602 Flanarantsoa 0400-2000 with 20 kw; 2000-2200 1 kw (WRTH via Arctic 7/14)

Antananativu-1394 is now an all-nighter. (Arctic)

MALAWI. WRTH-78 is not correct. There is no 50 kw station on 674. MBC frequencies are 539, 593, 674, 755, 782, 1106, and 1277. (Arctic 7/14)

MALI. With a loan from the Federal Republic of Germany, Radio Mali will be able to buy 2 shortwave transmitters of 50 and 100 kw and a 100 kw MW transmitter. Installation should be complete by the end of 1979. (NZDXT 11/78)

MALTA. Since 8/2 a station has been heard on 5960 in AA, calling itself the Radio of the Socialist People's Libyan Arab Jamahiriyah from the Mediterranean Station. The "Mediterranean Station" is thought to indicate that it comes from Cyclops, Malta, since a similar announcement was noted in 1976 when Libyan radio was first noted operating from the Maltese relay station on 1570 kHz. (SCDX 8/22) (This transmission has since been forced to cease due to strong anti-Egypt/Israel commentary.--bp)

Deutsche Welle-1554 has been inactive for some time, but is now on on this new frequency. Noted with test programs and EE ID 2330-0130. No Libyan relay or Zandir Malta AA programs noted by Ginbey. (Arctic 7/14)

Malta has closed the BFBS station on the island. Cyclops has begun broadcasting on 1554 as of 6/26. DW has informed BT (an Arctic member) that they are on 0500-0700 in AA; 1500 1850.

Deutsche Welle, Cyclops on 1554 now used 0700-0900 by other services than DW. DW will use this from early morning until early evening after 11/23 when they will move to 1557. (Arctic 10/20)

The Prime Minister of Malta has closed the British Forces Radio Station on Malta until the BBC makes amends for various alleged errors committed since March 1977. (MWN 9/78)

Maltese Prime Minister has lifted the ban on the BBC journalists entering Malta imposed 7/7. BFBS station which he ordered closed on 7/15 was re-opened on 10/11. (MWN 11/78)

MASIRAH, OMAN. BBC Masirah Island provides fair to good MW reception in Pakistan on 702 and 1413. (SWNS)

MONACO. TWR plans to raise the power of two 100 kw transmitters to 500 kw. (NZDXT 3/79)

MONGOLIA. A large station is under construction in Dalamuzadgad to improve transmission in the Gobi desert. Geneva Plan includes transmitters there on 209, 702, 1350, 1440, 1485 and 1602. Monitoring observations mention these changes to WRTH-1978: 1330-1400 in Russian on 227. (DSWCI)

A new station has been built in Ulan Bator and should have become operational 9/78. It is one of the four stations going on the air this year. The stations are being built with Soviet help and will have Russian transmitters. (Frequency unknown, BCB or shortwave). (NASWA 8/78)

A new MW transmitter at Altay city in Western Mongolia has been started, to serve the southern part of Mongolia. No frequency or power known. (Arctic 12/2)

MOROCCO. Rabat is now on 1043 since mid-78. IDs are rare. Seems to be high powered. Ends SS at 2000; then into FF to well past 2400. Mixed with GDR in South Africa at times. (Ginbey, Arctic 8/27)

Sebaa-Aloun-611 is now 300 kw; also the one on 1043. There is no "Voice of Morocco" on 1232 anymore. This station is now Radio Tanger, a commercial station broadcasting mainly to the coastal areas. AFRTS-1484 closed its Kenitra station early this year. (Arctic 7/14)

Tetuan is now on 1060 ex 1052. (MWN 9/78)

Laayoune-656 is the former station in what was El Aaiun, Spanish Sahara. (MWN 11/78)  
Rabat-1043 ends SS at 1800, then goes into FF well past 2400. (NZDXT 11/78)

**MOZAMBIQUE.** Quelimane suddenly switched to 1295 and then back to 935. Definitely not 10 kw. Cimoio, Tete and Pemba are mostly inactive. (Ginbey, Arctic 7/14)

Quelimane has finally switched to 1295 from 935. (Arctic 10/20)

While the Conference of Foreign Ministers of Non-Aligned Countries was in session, Radio Mozambique had special broadcasts in EE 0430-0530, 1030-1130, and 2000-2110 on 1007 and 1079 (1007 was not announced). The C program operates 1530 (Sun 1300)-2000 on 1079. (Richard Ginbey, via Arctic 2/23)

The Voice of Zimbabwe in EE is produced by the Patriotic Front and is broadcast over R. Mozambique on 1079. Program begins at 1800, lasts 40 minutes. (SCDX 1483)

**NIGERIA.** An unID station has been heard on 557. Radio Oyo is now using 756. The station formerly was Western Nigeria Broadcasting Service. Radio Kwara, Ilorin-809 was observed with very good strength s/on at 0530. An unID station heard on 827 at 0530. (Ginbey, Arctic 7/14)

The NBC has been replaced by the Federal Radio Corporation of Nigeria. A new FRCN station is on 693 from Makurdi. (Arctic 7/14)

Enugu on 620, Ibadan-575, and Sokoto-557 all sign on at 0530. Radio Oyo-756 is now on 0400-0100. Anambara Broadcasting Corp., Enugu (also IDing as ABC, Enugu) s/on 0530 on 857. Gongola Broadcasting Corp., Yolo (Radio Yolo) now scheduled on 1017 from 0530-2215. (Arctic 8/27)

FBC Yola-1017 has changed its name to Radio Gongola. (Arctic 12/2)

After January 1, the Federal Radio Corporation has ceased to carry commercial advertisements. (Arctic 3/9)

Estacion Reg. Ibadan heard in Brazil on 575, new transmission not in EE at 2303, 50 kw. (DXCB)

**NORWAY.** Following stations closed 11/1: Bodø-674, Bergen-890, Kristiansand-890, Trøndelag-890, and Fredrickstand-1578. The remaining LW and MW stations will be Tromsø-155, Oslo-218, Vigra-630 (ex 629), Finnmark-702 (ex 701), Stavanger-1314 (ex 1313) and Svalbard (Spitzbergen)-1466. (SCDX 10/31)

A new stronger transmitter for 1314 has been ordered. Programs formerly on Fredrickstad-1578 probably will go to Stavanger-1314.

The new station on Kvitsoy on Rogaland will be the most powerful combined station in northern Europe when it is completed in early 1982. Located on the island group between Haugesund and Stavanger, it will have two 800 kw MW transmitters and two 500 kw shortwave transmitters. (SCDX 1/30)

Svalbard-1466 has been noted and reported by EBU. (Arctic 12/29)

A new 1200 kw station at Kvisøy to replace the old Stavanger-1313 has been approved. Will take about 3 years to complete. (NZDXT)

Local programs of Radio Norway are split into the following main groups: Bergen, Ostlandet, Kristiansand, Stavanger, Alesund, Hedmark/Oppland, Trondheim, Bodø, Tromsø, Vadsø, Local programs are 1200-1220, 1645-1700, and 2150-2200 (last on Sundays only). (Arctic)

**POLAND.** Polskie Radio says the 2 x 750 kw transmitters are due on the air at the end of the year. (MWN 6/78)

The Second Program is now being carried only on MW. A new 200 kw transmitter on 200 kHz now relays it between 0700-1500. (SCDX 12/5 and Arctic 12/5)

Frequencies (all program 2 except 200 kHz):

200	Warszawa II	1260	Starachowice, Szozeцин
227	Warszawa I	1305	Białystok, Gdansk, Lodz, Kreszow
720	UnID	1368	Krakow, Zielona Gora
738	Poznan	1395	Slupsk
819	Warszawa	1485	Lodz, Kolobrzeg, Szczecinsk, Gizycko, Przemysl
1080	Karowice		
1206	Kielce, Koszalin, Lublin, Woclaw	1584	Ostroda, Jelenia Gora
		1602	Radom, Olaztyn, Lidzbark, Mragowo, Gorzow Wielkopolskie

Program I: 24 hours; Program 2 0327 (Sun 0427)-2300.

Polskie Radio Foreign Service uses the following from 2303-2400: 738, 1206 and 1260 in GG; 720, 819, 1080 and 1305 in Polish. (Arctic 12/29)

The new 158 m antenna at Horzecin has been tested. There are two new transmitters of 750 kw each built by the Czechs. From Nov. 1978 Katowice will operate on 1080. (NZDXT)

PORTUGAL. New frequencies after 11/23/78:

RDP 1 594 Chaves, M. Do Duoro, Coimbra, Portalegre (1 kw)  
666 Lisboa 1 (135 kw); Covilha, Porto, V. Real, Valena, Viseu (10 kw)  
720 Azurara (100 kw); C. Branco, Elvas, Faro, Guarda, Mirandela (10 kw)  
RDP 2 756 Lisboa II (135 kw); Norte II (100 kw)  
RDP 3 558 Faro (10 kw)  
693 Coimbra (10 kw), Viseu (1 kw)  
783 Miramar (100 kw)  
1035 Porto Alto (120 kw)  
1170 Valena (10 kw)  
1287 Canidelo (10 kw)  
1593 Lisboa (10 kw) (Arctic 12/2)

Radiodifusao Portuguesa is in serious financial problems. Its only source of income is advertising and license fees; these pay only a small portion of the costs. (Arctic 3/9)

Radio Renascenca intends to cover all Portuguese territory on MW, after reaching all groups of Portuguese emigrants throughout the world on shortwave. (SCDX 1478)

QATAR. Frequencies of new 750 kw transmitters will probably be 935 and 1232. (MWN 9/78)

995 is not used by Qatar Broadcasting Service. (Arctic 11/3)

Qatar Broadcasting Service on 954 is very strong; power has been increased. According to a German DXer, the QBS is on 999 0400-1005 and 1500-1905. (Arctic 2/23, 3/9)

REUNION. St. Pierre-666 20 kw; St. Andre-729 20 kw. (Telex, via Denis Beauregard)

RHODESIA. The country will change its name to Zimbabwe on 1/1/79. Voice of Free Africa has moved back to MW on 1020 from 1635-1735. Radio III is an additional African Service 1745-1900 on 1002. (Ginbey, SCDX 7/25)

Radio III now 1845-2000. (Ginbey, Arctic 8/27)

The name of the country will not change to Zimbabwe on 1/1/79. In fact, it may be a couple of years. (Arctic 11/3)

Gwelo-999 has been heard using this frequency in the evenings. (EBU via Arctic 12/2)

According to news reports, Rhodesia will be known as Zimbabwe-Rhodesia after the April elections, at least for a year or two. (Arctic 12/29)

The RBC has added a new service, Radio 3, on 1000 kHz 1800-1845, in English and native languages. (SCDX 1480)

RUMANIA. The new 50 kw Botosani transmitter on 602 is now in operation together with 2 low powered synchronized stations. (Arctic 8/27)

SAN MARINO. The new leftist government plans to put up a radio and TV station. The proposal is complicated by the treaty between San Marino and Italy forbidding the miniature republic from installing any stations. (SCDX 8/1)

SAUDI ARABIA. There are plans for a 2000 kw transmitter at Duba-548 (549 under new plan), 1520 (1521) and Guriat 611 (612); also the Voice of Islam with 1000 kw at Guriat at 899 (900). (MWN 4/78)

Dannan is on 886, providing daytime reception in Abu Dhabi and Kuwait. (SWNS)

A new transmitter has been inaugurated on 6/13 in Ha'il. Jeddah uses the new frequency of 1484. Noted at 1800 beginning in FF. Tests have been monitored on the following frequencies and times, consisting of long periods of religious talk, silent carrier or Koran recitation:

548	0400-1700	Duba 2000 kw?		
611	0400-1700	Guriat 2000 kw?		
899	0400-2300	Guriat 1000 kw?		
1520	1600-2300	Duba 2000 kw?	(Arctic 8/27)	

Tests consisting of long periods of silent carrier, religious talks and Qur'an recitations continue to be carried on 1520, 611 and 548 kHz. (NZDXT 9/78)

MW frequencies after 11/23 are:

549	Al Diriyan	1 kw	1215	Al Madian	1 kw
576	Gizan	1 kw	1224	Al Diriyah	1 kw
585	Gizan	1200 kw	1305	Taif	1 kw
648	Jeddah	50 kw	1484	Jeddah	1 kw
846	Buraidah	1 kw			
882	Al Damman	100 kw	(WRTH via NZDXT 9/78)		

The new superpowers are on the air but only for tests. 548 will be beamed to the Arab Republic of Egypt, 611 to Jordan, Lebanon, and Syria, 899 to Jordan, Lebanon and Syria, and 1520 to Egypt and North Africa. Duba-1520 is now on. (Arctic 11/3, 11/17)

Duba 1521 is audible in Germany rather regularly in the evenings under CSSR. (Arctic 1/12)

A new station called the Voice of Islam will begin in June. Stations will carry programs in AA, EE, FF, RR, SS, Turkish, and Urdu and would feature programs on the role of Islam in the struggle against atheism and materialism in the world. It is thought that the station will operate initially on MW, possibly on 549, 612, 900 and 1521. (Arctic 2/23)

**SENEGAL.** The station on 1224 is likely Ziguinchor, 20 kw. Previously on shortwave only. (MWN 4/78)

Dakar-1304 s/on as early as 0500. (Ginbey, Arctic 8/27)

**SOUTH AFRICA.** Five companies are bidding for rights to operate a commercial station similar to SABC Radio 5 in Bophuthatswana. A government station operating from the capital, Mmaabatho (near Mafeking) will broadcast in Setswana, EE, and Afrikaans. Probably in FM and MW, perhaps shortwave. A complete studio was built for the Bophuthatswana government by SABC.

The government in Umtata, Transkei, announced that a powerful EE commercial station will begin in 1979 to all of Transkei and other areas of southern Africa, called Capital Radio.

SABC's Radio 5 will move to FM in 1981. (Arctic 7/14, 8/27)

Radio Five with popular music and announcements in EE and Afrikaans is on 24 hours a day on 701, 719, 728, 782, 800, 1115, 1286, and 1313. The frequencies will be adjusted most likely with the new general plan. (Arctic 11/3)

Radio Five is now on 575 in Johannesburg (Maraisburg) together with 719 as of 11/21. 719 apparently will be dropped. (Denzil V. Baker, Durban, South Africa)

The MW situation in southern Africa is chaotic as the majority of stations have not changed frequencies; in some cases they will not change. (R. Ginbey, via SCDX 12/12)

Radio 5 frequencies will be moved up 1 kHz during this year. (Arctic 2/23)

The South African government is considering transferring SABC operations in Mambisa to the office of the Administer General in Windhoek. (SCDX 1480)

**SOUTH-WEST AFRICA.** An interim Broadcasting Control Board has been formed in Windhoek, responsible for the planning and establishment of a broadcasting service. (Arctic 8/27)

**SOUTH YEMEN.** Aden-755 and 1188 are now scheduled 0400-0630 and 0900-2130. Fridays 0400-2130. (Arctic 7/14)

**SPAIN.** Radio Peninsular, Campo de Gibraltar is now on 1324 with 10 kw. Heard well in southern Sweden after Moscow s/off. RNE has begun tests in Valencia on 773 with a 2 x 25 kw transmitter parallel located in El Palmar in the La Albufera region. 0700-2100 is the testing schedule. (Arctic 7/14, 8/27)

All COPE stations, those with EAK prefixes, were due to leave the air on 11/23 and be on VHF only. (MWN 12/78)

Spain lost its LW assignments when it couldn't send a representative to the 1939 Montreux Conference and so the 191 and 227 outlets listed earlier do not exist. Currently these are the stations in Madrid: Radio Nacional I, 585; Radio Madrid, 810; Radio Intercontinental 918; Radio Espana 954; La Voz de Madrid 1107; Radio Centro 1314; Radio Peninsular-1539.

All REM-CAR, COPE, and CES stations are now under the direct control of Radio Nacional, although they carry their own programs. Beginning in November, all SER stations have had to carry the same programs after sunset. (SCDX 1/16)

Radio Juventud de Zaragoza, EPJ46-1413 is still running with 5 kw. 20 kw is planned. (Arctic 3/9)

**SRI LANKA.** It seems that tests from the TWR station at Puttalam have not started yet. Ministry of Defense has given Deutsche Welle permission to set up a relay base at Trincomalee; 2 250 kw shortwave and one 100 kw MW. (MWN 4/78)

Trans World Radio at Puttalam has begun test transmissions on 890 kHz. Channel I of the EE service of SLBC has moved to 870. (SCDX 6/27) Regular broadcasts began on Aug. 6 with 400 kw. Reception very good far away in India. (Arctic 8/27)

TWR-Puttalam-890 began regular modulated tests to India on 6/6, but ten days later the base insulators on the tower started giving way. Tests resumed about 8/1; the installation was turned over to SLBC on 8/5. TWR will have use of the 400 kw transmitter from 1330 to 0130; SLBC will use it 0130-1330. (NZDXT 10/78)

**SUDAN.** Voice of the Music began on 5/24 on 572 kHz. Schedule 0500-0900; 1500-2100. International music with news summaries on the hour. Station on 760v is on 0500-2300. Voice of the People Broadcasting Service is on 1300-2300, with local news and commercials. EE and FF will be introduced in July 79. The station on 960 is on 0500-2300. (Arctic 7/14)

Omdurman Radio will begin a fourth channel on 764 1200-2200 once studios have been completed and equipment imported. (NZDXT 7/78)

**SWAZILAND.** SBS will operate separate networks in Siswati and English in 1980. A 100 kw transmitter will be located at Sidvokodvo. (Arctic 11/3)

The Swaziland Commercial Radio will broadcast 0700-1100 Mon-Fri on 6155; new transmissions 2030-2200 on Fri. and 2000-2200 on Sun., both on 1376 and 3223. (SCDX 1478)

SWEDEN. From May 1978 only two shortwave transmitters are in use for R. Sweden. Horby-1178 carried R. Sweden's programs 1530-0000. (MWN 6/78)

Radio Sweden Foreign Service-1178 during the summer afternoons doesn't seem to have worked. Noted in northern Germany only after 1930 or 2000; in Holland after 2000. (Arctic 8/27)

Gothenburg-981, with 150 kw, will be used for broadcasts to Europe: 2200 in Portuguese, 2230 in SS, 2300 in English, and 2330 in Swedish. The Swedish Telecommunications Administration hopes to replace the current Horby MW transmitter with a new one near Simrishamn on the southern coast by 1982. The new transmitter will have 1200 kw on 1179 and will cover southern Sweden, Denmark, and the Baltic coasts of West Germany, East Germany, Poland, Lithuania and Latvia during the day. At night it would cover much of Scandinavia, Britain, and northern Europe as far south as Belgium and northern France. In any case, the aging Horby transmitter will probably have to be taken out of service in 1985. (SCDX 10/31, 11/14)

Tests on the new Gothenburg-981 transmitter continued till 3/3. (SCDX 2/6) When aerial adjustments have been made, another test will begin. (Arctic 3/9)

593 Lulea-Pitea	1178 Skane
720 Kiruna	1224 Ostersund
774 Stockholm	

981 Bohuslan (Göteborg) (WRTH Newsletter via NZDXT 1/79)

The MW transmitter at Horby on 1178 will be used from 1530 GMT, between May and September, while shortwave transmitters are being maintained. (SCDX 1478, 1480)

SWITZERLAND. Beromunster-531 ex 529 will s/off 1800; Sarnen-1566 ex 1562 will s/on 1700; is also on in the morning till 0700 or 0800. Saviese will go to 1485 ex 1367. (MWN 9/78)

SYRIA. Damascus in FF and EE in on 1069.2 causing a het on 1070 in England. S/off 2200. (MWN 4/78)

Voice of the People announced on 927; location not traced yet. Deir El Zor now back on 953 with 10 kw ex 827. (Arctic 7/14)

Al-Hasakah new on 927 on 0455-0130. A new station started in Dayr az Zawr on 953, much stronger than the old station. (Arctic 8/27)

Voice of the People domestic service in AA is daily 0355-0800 and 1500-1900 on 1313, 1070, 953, 927, and 872 kHz. (NZDXT 9/78)

Deir el Zor, listed as 1500 kw day and 100 kw night on 827 is often extremely strong in South Africa at night; must be using daytime power on occasion. (Arctic 10/20)

It appears that 953 carries the Western/Turkish service while the Arabic program is aired on 827 (ex 953). (Arctic 11/3)

TRANSKEI. (also see South Africa) Capital Radio will begin on 10/26/79 with 500 kw on 539 kHz from 0500-2300 in EE. Studios will be in Port St. John's, and will be linked to the transmitter site at Herschel in Northern Transkei via microwave. All broadcasts will be in stereo. Will be run on lines similar to Capital Radio in London and will be superior to any station in southern Africa. (Ginbey, Arctic 8/27)

A little background info from Richard Ginbey: Transkei was annexed by the British in 1894 and incorporated into the Cape Colony. In 1930 the United Transkeian Territories General Council was formed to deal with matters of local government. In 1963 Transkei became a self-governing territory and in 1976 an independent republic (although not generally recognized as such by other governments.--1jpp) (Arctic 10/20)

Transkei Capital Radio is building a studio in Cape Town for the 2% programming that will be on tape, e.g., interviews etc. (Arctic 11/3)

The managing director of London's Capital Radio denies that any help has been given to the African Capital Radio. (SCDX 11/14)

Capital Radio will start transmissions from a 500 kw transmitter at Herschel on 540 kHz with studios at Port St. Johns on the coast. The station will operate about 18 hours a day in EE; format will be commercial, with news, weather and music. (Arctic 1/12)

Capital Radio, assigned first to 539, now has been assigned 603. First tests will be on 10/26. Official broadcasts will begin on Christmas Eve. A 500 kw transmitter is now under construction. Operating hours will be 0400-2200. (Arctic 2/23)

TUNISIA. The 1570 outlet is reported to be at Monastir. An unID station has been heard on 1582 since 8/77. (NZDXT 5/78)

Sfax-602 has been taken out of service. The new Sfax transmitter on 1570 is now operating with 2 x 600 kw. Monastir-1588 uses only 1 kw; monitored here by EBU Sorrento. Later, monitored on 1520 also by Sorrento. Sfax-1570 s/off 0030-0040. Seems to be a relay station. IDs frequently. (Arctic 7/14, 8/27)

Monastir-1523 is now using 20 kw. (Arctic 11/3)

RTT Monastir is 20 kw. (MWN 12/78)

585 Gafsa	963 Jedeida 2
630 Jedeida 1	1566 Sfax 2
719 Sfax 1	1485 or 1521 Monastir

All transmitters have moved to their new frequencies. (Arctic 3/9)

TURKEY. The Voice of Cyprus is on 755 1600-1800 from Anamur. (MWN 4/78)  
20 kw. (NZDXT 5/78)

Voice of Cyprus-755 kHz left the air suddenly on June 29, for economic reasons apparently. (Arctic 8/27).

TRT-1 began 24 hour service as of 1/1. This had been discontinued because of lack of listeners and to save energy. (Arctic 12/5)

Turkish Radio and Television's Firat Program has announced the resumption of all-night radio. They will be on the air 6 times a week 2300-0300 using the 1200 kw transmitter on 182 kHz at Polatli. AN service will not be on Sunday/Monday night for antenna maintenance. (Arctic 3/9)

UGANDA. A new 10 kw station at Arua Nile District on 756 is relaying the Red Channel. UBC-998 is still absent from this channel unless it is under 1 kw. Other high powered channels heard in South Africa are 575, 638, 728, and 809. (Ginbey, Arctic 8/27)

UNITED ARAB EMIRATES. Om El Quein-845 with 20 kw is now reported. Ras Al Khameh is on 1175. (MWN 4/78)

Radio Sharjah closed at the end of 1977 and Abu Dhabi took over its frequency. (NZDXT 5/78)

A new high powered BCB and SW station will be inaugurated in 1979. (NASWA 9/78)

Um el Quein has been monitored on 847 from 1200-1800 and from 0400-0700.

(Arctic 10/20) (Formerly reported on 845.--fjp)

Abu Dhabi still uses 728 kHz. (Arctic 12/2)

A station with 3 x 300 kw is under construction by Radio & Colour Television Dubai (ex Dubai Broadcasting Station). Should be on towards end of 1979. When Sharjah closed down at the end of 1977, Abu Dhabi took over its frequency of 1575. 1175 Ras as Khaima has verified. (Arctic 1/12)

Dubai Radio & Colour Television Arabic Service

1106 (10 kw) 0330-2145.

1250 (50 kw) 0330-2145

1481 (600 kw) 0330-0615, 1000-2145

A new 750 kw transmitter will be on the air in a few months; then the other transmitters' schedules will be revised; the only exception is that 1481 will not change frequency. There will be no move to 1476. The situation will then be:

1107 (50 kw) 0330-2145

1251 (600 kw) 0330-0615, 1000-2145

1481 (1500 kw) 0330-2145

846 Umm Al-Qaywayn Broadcasting Station is now on the air. Uses 20 kw. (Arctic 2/23, 3/9) 0615 1100, 1500-2000. (SCDX 2/20)

U.S.S.R. Vilnius has a powerful new transmitter on 665. Sverdlovsk Regional is now on 281 ex 227; s/on 0155; (MWN 4/78)

Radio Moscow is now announcing 1250 and 630 in its EE transmissions to Europe; 1330-1400. (SCDX 1480)

Channels used for EE broadcasts are Kaliningrad-1142, Kaunas, Lithuania-1385, Leningrad-1439 and Vinnitsa, Ukraine-1546. Schedules: on 1142 from 1900-2000; 1493 from 2100-2200; 1142, 1385, and 1493 from 2200-2300 along with 1142, 1385, and 1546 from 2230-2300. (MWN 6/78)

Leningrad-800 was out of service for most of month of July for maintenance. Kusur is location of 1187 station, unID station on 1331 with Mayak at 0230 on 8/16. (Arctic 8/27)

Radio Moscow EE service to Europe and Africa 2200-2400 on 890, 935, 1142, 1322, 1385, 1493 and 1546. (Arctic 9/8)

227 Tyumen is here with a new transmitter // 890.

899 A new station located in Central Asia has been heard with R. Moscow program in Chinese between 1739-2230. (Arctic 9/22, 10/8)

Radio Vilnius broadcasts in EE 2230-2300 on 665, 1106 1554 and 6100. (SCDX 10/17)

The British Service has now been cut to 1 hour daily, 1900-2000 on 1142 kHz and other frequencies in the 41 and 49 meter bands. (SCDX 11/7)

Mayak Program now has news every 15 minutes instead of every half-hour. (NASWA via Portzer)

Radio Moscow now uses new frequency of 720 for the Far East. Heard in Japan at s/on 2000; fade out 2300 with M2 program and again at 0900; s/off 1530 with Foreign Service in J.J. Parallel to 630 and 1251. EBU indicates Kaliningrad is now on 1143 with 150 kw. (Arctic 2/23, 3/9)

WEST GERMANY. Nuenchen-Ismaning will move from 1602 to 801 on 11/23 and Nurnberg from 800 to 909. DLF now has another transmitter on 548 (300 kw) at Mainflingen. Braunschweig 548/755 is now out of service. There are two new station due: 200 kw at Thurmau (Bayreuth) and 100 kw at Nordkirchen (Dortmund). (MWN 9/78)

Bad Durheim closed on 11/23. The new transmitter in Thurnau, near Bayreuth, will start with reduced power on 549. Full power will be 200 kw. This will be the only DLF transmitter on this frequency. The Nordkirchen transmitter with 1000 kw will not be completed until 1980. It is also planned to increase the LW transmitter at Donebach-155 from 250 to 500 kw. (Arctic 11/17)

Transmitter of Deutschlandfunk on 209 is not in München but Mainflingen near Frankfurt. Presently 15 kw 0600-1800. They plan to put the 500/250 kw transmitter on in the spring. DLF-549, the 20 kw transmitter presently in Thurnau is a mobile unit; another such unit will be on in Nordkirchen in a few weeks to ensure reception until the new 100 kw transmitter is built in 1980.

The new ERP power of the Hamburg station on 972 is 450 kw day and night. Presently 100 kw until April.

801 kHz stations are not NSP but have same SP as 520 kHz, every first and third Tuesday 0330-0445.

Deutschlandsfunk will use 209 kHz from Munich with 20 kw. Final power will be 500/250 kw. DLF Thurnau is now using 20 kw. (Arctic 12/2)

AFN Berlin is now on 1106 ex 935. (NZDXT)

From Nov. 23, SFB1 will also use a 100 kw transmitter located in the Braunschweig area on 630 kHz. The Geneva Plan limits the use of this frequency to 0600-1800. (Arctic)

AFN-Kaiserlautern and Nurnberg have moved to 1106 from 611. (Arctic 6/2)

YEMEN ARAB REPUBLIC. The new superpower station is now under construction. (Arctic 7/14)

Al-Hiswah-755 is new with 200 kw, since 11/77. (MWN 4/78) Reported on 1188, not 755. (DSWCI 5/78)

YUGOSLAVIA. Novi Sad is leaving 1269. (MWN 4/78)

Radio Zagreb's 2nd and 3rd programs will be only on FM after 11/78. (Arctic 5/20)

All-nighters noted on Mon/Tues are 1070 and R. Beograd on 1349; listed as AN Fri, Sat, Sun only. Change?

A newspaper reports that police have traced and closed down 843 illegal stations, mostly operated by young people who played pop music. They will have to pay heavy fines.

A new 300 kw transmitter will be built for Radio Titograd-881 to improve the present poor reception over a large part of Montenegro. Several low power synchronized relays will also be built. The LF/MF 1978 plans include a 300 kw transmitter on 882. (Arctic 7/14)

1557 will be the new frequency for the new 20 kw station of Radio Osijek, now under construction. (Arctic 8/27)

Radio Novi Sad will have two independent MW networks. A powerful transmitter will be built in Srbobran for programs in minority languages, while two transmitters will be available for programs in Serbo-Croat. One will be in Banat with 150 kw and the other in Backa with 50 kw. (Arctic 11/3)

702	R. Sabac now here ex 791	1295	Loznica ex 1340
666	Sombor ex 1403	1350	Studio B First program, 24 hours
711	Nis ex 926	1359	Vrbas-Kula ex 1304
720	Vukovar ex 863	1368	Valjevo ex 1295 (not positive)
900	Studio B Second program 1300-1800	1440	Svetozarevo ex 1457
945	Smederevo ex 1376	1449	Srbobran ex 1448
1080	Radio Capodistria, Italian service	1548	Stara-Pazova ex 1546 (low power, ex R.
1170	" " " " " "	1557	Osijek ex 1412 Vojka)
1215	Mladenovac ex 1196	1602	Subotica ex 1205

Radio Novi Sad's new transmitter at Banat will be ready during second half of 1979. They will then broadcast Serbo-Croat 0500-2400. Frequency not yet confirmed. (Arctic 2/23)

BBC World Service on 648 is covered in Sweden by Murska Sobota (Ljubjana I) as well as Bulgaria. (MWN 1/79)

46 local Yugoslav stations have moved to 1485; 44 stations to 1584, and 43 to 1602 kHz. (Arctic 1/12)

ZAMBIA. The government plans to install about 25 regional stations, MW and FM between 1977-81. Each station will operate on two frequencies: one for the General Service programs and one for the Home Service program. The stations will really be regional relays of the two national programs. (Arctic 8/27)

An official of the Zambian Broadcasting Service has warned that unless the government helps the station with substantial financial aid, the broadcasts will have to be suspended. Most shortwave transmitters as well as the External Service and the 250 kw MW transmitter on 819 are off the air. (SCDX 2/6) The station on 548 hasn't been heard either. (Richard Ginbey, via Arctic 2/23)

# PACIFIC LOGGINGS

- 530 ? UNID, somebody apparently didn't get the word. Carrier here 1406 and 1500 11/23, and 1305 11/24. Seemed to loop in the DU direction. (Peterson, CA)
- 531 t AUSTRALIA, Dalwallinu, 6DL, ABC-3, 1456 2/28, w/classical mx, 1457 ABC ID, TC as "? to 11". Faded by 1502. (Williams, OR)
- 531 AUSTRALIA, Kempsey, 2KM, 1217 4/6, very weak u/noise w/race results, then pop song. (Tomer, CA)
- 531 JAPAN, Morioka, JOQG, NHK-1, first time on new freq 1404 11/23 w/just a carrier, then positive ID 1300 11/24. (Peterson, CA)  
+1300 1/15, w/NHK ID and pips. (Tomer, CA)
- 531 ? UNID, 1129 4/4, fair carrier loop DU. (Korinek, WA)
- 540 AUSTRALIA, Longreach, 4QL, ABC-3, weak w/quiet jazz mx //890 1326 9/8, then faded completely. (Tomer, CA)
- 550 HAWAII, Wailuku, KMVI, 1147 7/12 live PSA and pop mx at 1:47am Hawaiian time. So looks like they've extended their weekday sked past local midnight. To the best of my knowledge they've never been AN, or am I wrong? (Hardy, WA)  
+1445 3/2 super signal w/filipino service and Datsun ad. (Williams, OR)  
+1118 4/4, near local level w/ID, rock mx, other Hawaiians noted this morning: KORL-650, KIKI-830, KGU-760, KPOI-1040. (Korinek, WA)
- 558 ? UNID, carrier looping SE Asia 1322 11/24. 6WA, DZCA? (Peterson, CA)  
+1103 3/5, bits of male talk. Loops DU, heard choral singing, possibly Fijian s/off but Fijian NA recorded on 684 in December, but not same. (Hall-Patch, BC)
- 567 t JAPAN, Sepporo, JOIK, NHK-1, weak audio and much KVI-570 slop 1035 11/26. Only a carrier 11/25, 29, and 30. (Gradin, OR)
- 567 t NEW ZEALAND, Wellington, 2YA, probably the one w/poor audio (light instrumental mx) in KVI-570 splatter 1155 11/26. (Hall-Patch, BC)  
+1305 4/9, fair signal w/female talk. //756. (Tomer, CA)  
+1123 4/30, orchestra mx here briefly but couldn't go for //'s on 756 or 819 as both were just carriers at the time. Soon faded to just carrier. (Hall-Patch, BC)
- 567 ? UNID, weak carrier looping DU 1140 11/24. Probably New Zealand but would expect more for 100 kW. (Hall-Patch, BC)  
+carrier looping N. Asia 1326 11/24. (Peterson, CA)  
+male in oriental language here, poor and only audible in KVI-570 null (NE-SW) 1536 12/6. Sounded like JJ, but JOIK off at 1500, female singing like tortured cat 1532 12/8, faint. Possibly HLKF ...one to watch. (Hall-Patch, BC)  
+DU 1307 1/15, w/quiet mx, probably 2YA. (Tomer, CA)
- 576 AUSTRALIA, Bourke, 2WEB, operates from Bourke High School by Western Educational Broadcasters. Uses 2 kW into 300 foot top loaded mast. Tests started 9/78 and fulltime began on 11/13/78. Operates daytime only. (NZDXT 3/79) (Has since moved here-ed)
- 576 ? UNID, 2 different carriers 1328 11/24, one looping DU and the other N. Asia. (Peterson, CA)
- 585 USSR, Svobodnyy, RSFSR, 1430 12/10, Kremlin bells noted weak but clear. (Hall-Patch, BC)
- 585 ? UNID, 1331 11/24, carrier, loop uncertain. (Peterson, CA)
- 594 t AUSTRALIA, Horsham, 3WV, ABC-3, 1118 11/24, probably the weak accented EE male and female talk looping DU. (Portzer, WA)  
+Very likely the one w/EE talk looping DU, sounded like a preacher, 1114-1128, then "O Come All Ye Faithful" and "O Little Town of Bethlehem" sung to 1130

- 12/25, then wiped out by slop. Back again 1155 w/instrumental mx which continued across top of hour, then accented EE male talker. No ID's and no //s found. Will keep after this one. (Portzer, WA)  
 +1105 1/11, male w/talk discussion program. Short mx interlude 1108, then wx report?. (Bytheway, WA)  
 +1255 4/5, very weak w/quiet piano mx, faded, ABC nx at 1303 recheck. (Tomer, CA)
- 594 t JAPAN, Tokyo, JOAK, NHK-1, JJ 11/24 1405. (Pejza, CA)  
 +Male 1158 12/16, NHK pips 1200 and more talk. Good carrier but poor audio, very undermodulated compared to other NHK stations. (Portzer, WA)  
 +1200 2/7, tuned in just in time to hear NHK pips. Into JJ talk by male. Fair w/590 slop. (Bytheway, WA)  
 +1449 2/28, instrumental mx, female w/NHK ID at 1434. (Williams, OR)  
 +1255 4/5, weak u/3WV w/JJ talk. (Tomer, CA)
- 594 ? UNID, mx 1252 11/26. Nothing heard 1300. (Bytheway, WA)  
 +Carrier 1015 12/4, looping S. Asia. About LSS in Brunei. I would have said too much to hope for before the big shift, but I'd believe anything now. (Peterson, CA) (I guess that's a little too early for the 1000 kW Indian-bp)  
 +Carrier 1250 12/9 looping S. Asia. (Peterson, CA)  
 +1137 2/4, carrier w/bits of audio. Seemed to loop more toward Malaysia than Japan, but couldn't tell for sure. (Portzer, WA)  
 +1113 4/4, poor to fair, carrier only, loop DU. 3WV maybe? (Korinek, WA)
- 603 ? UNID, carrier 1020 12/4 u/severe KFRG-610 QRM looped. Unable to determine direction. (Peterson, CA)  
 +1427 3/2, weak het here, lots of slop from 600 and 610 kHz. (Williams, OR)
- 612 AUSTRALIA, Brisbane, 4QR, ABC-1, assumed the one w/5 pips, then program of bland MOR mx w/occasional accented male EE 1200-1230 11/26. Good strength at times through fierce 610 slop. (Portzer, WA)  
 +1120-1132 4/3, 2 males w/sports commentary. (Williams, OR)  
 +1347 4/6, fair w/jazz, //702. (Tomer, CA)  
 +1321 4/7, male EE in fair. (Korinek, WA)
- 612 ? UNID, good DU carrier 1245 11/25, bits of soft mx. (Hall-Patch, BC)  
 +Carrier 1022 12/4 just barely audible u/KFRG-610. This makes me a believer in the FRG-7. I could never have pulled that trick on the HQ-180. (Peterson, CA)  
 +1135 2/4, het looping Asia. (Portzer, WA)  
 +1150 4/2, DU het here. (Portzer, WA)
- 620 HAWAII, Hilo, KIPA, good w/jazz in KGW null. At 0600 10/2 "KIPA community calendar". Strongest ever here. (Hall-Patch, BC)
- 621 AUSTRALIA, Melbourne, 3AR, ABC-2, 1345 3/6, weak w/opera // to 4QG-792. 6 pips at 1400. (Tomer, CA)
- 630 COOK ISLANDS, Rarotonga, ZK1ZC, RCI appears to be all night local Friday nights (Sat. AM GMT) on per monitoring on SW //5045. (NASWA)
- 635 NORTH KOREA, Chongjin, weak-fair 1325-1355 9/10 w/calm KK talk, orchestra and choir, almost sounded like a religious service. Listed in WRTH as R. Pyongyang but was not //655. (Tomer, CA)
- 639 ? AUSTRALIA, unid, mild het when KFI-640 nulled 1025 11/23. 6 pips and mention of ABC when KFI nulled 1100 11/24. Suspect 4MS as Mossman is near the NE coast and has a clear water path to me. Queensland is GMT+11 now and S. Australia is offset by 1/2 hour, so 5CK's pips would be on 1/2 hour? Still, 4MS is listed as only 1 kW. Will keep at it. (Hall-Patch, BC)
- 639 t FIJI, Lautoka, suspected station throwing wretched het on KFI-640, looping S. Pacifac/DU 1014 11/29; again 1445 11/30. (Everitt, CA)  
 +Surely the one w/Polynesian choral mx briefly in well and causing loud het in KFI-640 null 1020 12/4. (Portzer, WA)  
 +Fair in KFI-640 null 12/18 w/YL talk at 1025, then vocal versions of "We Wish You a Merry Christmas" and "Auld Lang Syne". Tuned back in at 1052 and Polynesian and pop mx, including Emotion by Samantha Sang, w/male announcer. Mention of "R. Fiji One" and "R. Fiji Two" 1059:50, then into what sounded like EE nx. (Portzer, WA)  
 +1100 3/05, "R. Fiji News" noted poor-fair after BeeGee's song. Nulled

KFI-640 splatter for this one. (Hall-Patch, BC)

- 639 ? UNID, strong het and solid carrier w/KFI-640 looped 0932 11/23.  
(Korinek, WA)  
+Male talk in unid language 1018 11/26 w/KFI-640 nulled. Fiji or Australia?  
(Portzer, WA)  
+1110 4/04, good w/het and carrier, Fiji? (Korinek, WA)  
+1412 4/06, weak carrier hetting KFI-640, loops DU, maybe 5CK. (Tomer, CA)
- 640 AUSTRALIA, Crystal Brook, 5CK, ABC-3, weak w/quiet piano mx, ABC Radio ID  
1200 9/11, then 6 time pips and into ABC mx. No other Aussies noted this  
AM w/decent signals. Was //4920 kHz SW. (Tomer, CA)
- 648 t AUSTRALIA, Tamworth, 2NU, ABC-3, probable w/very good signal and rather low  
modulation, DU accented talk by man w/occasional interjections by woman  
1445 11/30. KORL-650 very weak. This still good until nearly 1500 when  
(naturally) signal started dropping out, leaving KORL w/only slight het loop-  
ing DU. (Everitt, CA) (This station has since moved to 639 kHz-ed)
- 648 USSR, Iman, RSFSR, 1530 12/06 Kremlin bells noted weakly in local noise.  
Mostly little better than a carrier. 655 (no change there) a fair carrier  
there around this time. (Hall-Patch, BC)  
+1335-1345 2/04, assumed the one w/female and occasional male announcements,  
orchestral and classical mx format. Fair (Korinek, WA)  
+1356 2/04, good carrier w/fair audio, into mx at 1358 w/chimes at 1349.  
Little 640 sloop. (Bytheway, WA)  
+1233 2/18, CC Foreign Service. Fair w/female talk. (Portzer, WA)  
+1031 3/19, good carrier w/bits of talk heard. (Harms, UT)
- 648 ? UNID, briefly fair carrier looping DU 1133 11/24. (Hall-Patch, BC)  
+Carrier 1410 12/08, in the clear. (Peterson, CA)  
+1231 j/23, fair carrier and het noted here, loops N. Asia, possible traces  
of CC, maybe USSR. (Korinek, WA)
- 650 t HAWAII, Honolulu, KORL, presumably the pop mx u/WSM and electrical storm  
7/18 0610. (Harms, WA)  
+Finally heard for state #37. Rock mx, frequent IDs, TCs. Lotsa DJ patter.  
8/17 1222-1247. Good signal w/slight interference from c/w station. KYAK  
most likely as past Nashville Sunrise. (Harms, WA)  
+"Coral 65" rolling in w/rock and roll and sports 0837 8/20. (Portzer, WA)  
+1328 9/05 w/PSA for youth athletic program, TC. Fair. (Pejza, CA)  
+9/22 0741 good-excellent w/WSM nulled. Rock mx and ID "You are listening to  
KORL Radio 65". (Harms, UT)  
+9/27 1358 mx and sports, ID "...this is Dick Daily w/Coral Sports", then TC  
0401. (Segalas, CA)  
+0820 2/05, fair w/discussion of coral reef ecology in Hawaii. (Tomer, CA)  
+1241 3/11, announcement about a robbery, mx, strong. (Williams, OR)  
+1300 4/03, w/nx, fantastic signal, local quality. (Williams, OR)
- 655 NORTH KOREA, Pyongyang, in w/some weak audio, female talking, heard 1150 7/20  
(Tomer, CA)  
t +Fair carrier w/traces of audio 1234 8/25, also 1235 8/26. (Hall-Patch, BC)  
+1335 9/10 was airing what had to be a Catholic mass, in the KK language.  
Now I think I've heard everything. (Tomer, CA)  
+Fading up for huge signal 1200 9/18 w/time pipe and assumed ID. PFM 655003  
w/1 Hz error. (Hall-Patch, BC)  
+"KCBS", booming in w/good-excellent signal 9/22 0958-1014. Time pipe and  
positive ID 1000: "Yogineum Pyongyang Inmida". Female and male talk about  
the greatness of Kim Il Sung. Instrumental and choral mx. This was my  
first TP and it was actually easier than I thought it would be. hi. Noted  
again 1245-1305. (Harms, UT)  
+Presumed, fair-poor w/gal in KK 1204 10/02. (Pejza, CA)  
+Fair 1351 10/19 w/talk in KK by man who sounded a little like Kon Erickson.  
(Portzer, WA)  
+1220 10/22 fair w/female in KK. (Korinek, WA)  
+Good w/chorus 0948 10/22. (Portzer, WA)  
+Fair w/talk and singing 1203 11/06. (Peterson, CA)  
t +Just a carrier noted 0730 11/24. Looks like Pyongyang is in no hurry to  
change frequency. (Tomer, CA)  
+Apparently still here 11/24 1410 w/woman singing. (Pejza, CA)  
t +Weak carrier only, but not much else likely 1207-11/26. (Everitt, CA)

- +Speculation on this and other North Korean stations that they will not shift to the new plan has so far proven correct. This one in w/best signal in years--like 1966--w/a group singing the usual stuff 1403 11/24. Carrier only 1422 11/27. (Peterson, CA)
- +Excellent w/oriental talk by woman, followed by man 1332 11/30; turn of loop brought carrier on 657, possibly ZYC-Wellington. (Everitt, CA)
- +Female jabbering 1350 12/02. (Bytheway, WA)
- t +1232 1/23, carrier noted loops about 290°. (Korinek, WA)
- +1310-1358 2/04, male and female jabbering sway. Good carrier, weak audio. (Korinek, WA)
- +0910 2/07, w/usual KK program. (Tomer, CA)
- 657 AUSTRALIA, Byrock, 2BY, ABC-3, 1308 4/05, weak w/ABC announcement, then started flute mx. (Tomer, CA)
- 657 CHINA, location unknown, 1455 12/07 w/CC choral singing, only 4 pipes on hour (cut short?), but //3229 SW, so definitely first program. Poor-fair. (Hall-Patch, BC)
- 657 JAPAN, Obihiro, JOOG, NHK-1, JJ talk seemingly //666 1306 12/16. (Portzer, WA)
- 657 t NEW ZEALAND, Wellington, ZYC, probable source of generally weak carrier 0715-0800 11/24. Some quiet piano mx 0725; signal was looping DU. (Tomer, CA)
- +A carrier found here every morning 11/23-11/26, earliest 0816 11/26. Audio rarely there, never clear but buried in carrier swish. Conditions quite auroral each day. Carrier was found as late as 1046 11/23, although the Zedder here is suppose to s/off at 1000 I believe. It's 882 companion seemed to shutdown at 1000:40 SM, judging by the disappearance of it's carrier at that time. Both SM and Thursday morning I was able to find 657's carrier at times when WNBC could not be heard at all, the 660 frequency being a mess of hets, rumbles, and nothingness when looping easterly. (Martin, CO)
- t +The first DU to make an appearance 0944 11/23 w/light orchestral mx. Not formally IDed yet. (Hall-Patch, BC)
- t +Assumed the accented EE looping DU 1012 11/26. (Portzer, WA)
- +Accented talk 1331 11/29. (Gradin, OR)
- +1002 12/25, fair //882, w/female mx. (Hall-Patch, BC)
- +1052 1/11, flute concerto //882. 882 better. (Bytheway, WA)
- t +0910 1/29, soft mx, loops New Zealand. (Peterson, CA)
- +0805 2/22, very weak w/classical mx. (Tomer, CA)
- +1132-1200 s/off. 4/02, armchair level w/MoR, female in s/off announcement at 1158, power off 1200:08. (Korinek, WA)
- +1023 4/04, in fair w/ concert network, female announcer. (Korinek, WA)
- +1110 4/09, fair w/nx. //765. (Portzer, WA)
- 657 ? UNID, Good carrier looping DU 0905 and various times after that 11/23. Probably ZYC. (Portzer, WA)
- +Carrier 0937-0947 11/23. (Korinek, WA)
- +Carrier looping DU 1010 11/23 and 1340 11/24. ZYC? (Peterson, CA)
- 660 ALASKA, Fairbanks, KFAR, 9/22 0703-0740 good w/partial null on XERPM and WNBC. Top-40 mx, local ads, ID 0703 "It's 3 mins after 10 o'clock at KFAR". Nil-good. (Harms, UT)
- +Fair w/rock mx and Alaskan TC 0822 11/10. (Portzer, WA)
- +1506 12/07 fair-good w/rock and roll and KFAR mention between songs. Also noted 1445 12/08 w/rock. Weakish carrier, good audio. (Hall-Patch, BC)
- 666 JAPAN, Osaka, JOBK, NHK-1, JJ talk 1306 12/16 fair in bad KBOI splash. (Portzer, WA)
- +1120 2/05, fair w/NHK-1 program. // to 891. (Tomer, CA)
- +1445 2/28, //693, fair signal much 670 slp. (Williams, OR)
- +1308 4/06, fair w/JJ talk. (Tomer, CA)
- 666 NEW CALEDONIA, Noumea, FR3, has moved here but the 1260 outlet has stayed there. It is located on 1000 meter Mount Acoupine, halfway along the mountain ridge up the center of the island. Opened in November 1977. The 666 khz transmitter is located on Sainte-Marie Island close to Noumea. (NZDXT)
- +Audible days, up to S-6 nites. Moved to 666 early, noted 1045 11/22. (Taylor, Fiji)
- t +1100 2/02, suspected to be the one w/carrier continuing till about 1105 which fits New Caledonia's s/off. KNBR-680 running open carrier. (Peterson, CA)

- 666 USSR, Komsomolsk-na-Amure, RSFSR, 0949 3/19, weak w/male vocal mx, then male in RR // 5015 SW. Was not //4485 or 4610 SW. (Portzer, WA)
- 666 ? UNID, strong carrier 1022 11/23. (Korinek, WA)  
 +Carrier looping SE Asia 1018 11/23. (Peterson, CA)  
 +Weak carrier looping NW, possibly China 1226 11/26. (Everitt, OK)  
 +Carrier looping S. Pacific 0840 11/27. New Hebrides?? (Tomer, CA)  
 +Carrier looping DU 1020 12/02. No audio. (Hall-Patch, BC)  
 +1247 12/16, weak het noted. (Harms, UT)  
 +Strong carrier looping NW/SE, no audio heard 1021 12/18. Possibly Russia, but no other Asians noted that morning. (Portzer, WA)  
 +1140 2/04, carrier loops about 310°. (Portzer, WA)  
 +1007 4/09, weak DU carrier. (Portzer, WA)
- 670 ALASKA, Dillingham, KDLG, 0836-1008 3/19 making mincemeat of WMAQ w/jazz program from NPR 0958 mx, wx to 1006. Lengthy s/off announcement mentioned owned by Dillingham City school district, then gave long list of organizations making financial contributions to the station. (sounded like every business in town was mentioned!), then Alaska state song at 1008. (Portzer, WA)
- 675 AUSTRALIA, Albury, 2CO, ABC-3, 1338 4/06, just barely strong enough to overcome heavy KNBR-680 slop. jazz program //702. (Tomer, CA)
- 675 NEW ZEALAND, Christchurch, 3YA, 1118 3/29, in fair w/typical cocktail mx. (Korinek, WA)  
 +1148 4/02, poor w/mx //1YA 756 in heavy KNBR-680 splash. (Portzer, WA)  
 +1326 4/09, fair w/MoR mx. (Korinek, WA)  
 +1200 5/07, 6 pips w/last pip extended slightly (like 1YA-756) followed by program notes and mx. Poor-fair. (Hall-Patch, BC)
- 675 ? UNID, poor-fair carrier 1012 11/23, more northerly bearing than 657 so probably Australia. (Hall-Patch, BC)  
 +1057 2/02, thanks to KNBR 680 having only open carrier detected this new carrier, unable to loop. However, since only DU signals making it this morning, 3YA and Brunei are suspects. (Peterson, CA)
- 684 t AUSTRALIA, Kempsey, 2KP, ABC-3, accented EE mx 0906 12/16 w/KNBR off. Noted w/light mx and talk at various times for the next hour. Pips, if any, at 1000 were obliterated by KIRO-710 slop. EE talk followed. Too early for 8TC and 6BS, who are both low powered and far inland, so apparently this by process of elimination. (Portzer, WA)  
 +1341 4/06, noted between KNBR songs w/Radio one jazz program, //702. Soon ruined when KNBR started mx again. (Tomer, CA)
- 684 FIJI, Labasa, 1205 12/16, w/both KNBR-680/XETRA-690 off noted a few bars of GSO, then unknown anthem. ID'd from sheet mx as Fijian national song. Fine DX and new country for me. (Hall-Patch, BC)
- 684 JAPAN, Nagasaki, JOAG, NHK-1, weak ...-IS, little else noted, 1100 12/16. Noted that this is ex-660, not ex-720 as printed in the TP list in FL-7. (Portzer, WA)
- 684 ? UNID, 1015 11/23 fair-good carrier, but direction and audio difficult in KNBR-680 splat. (Hall-Patch, BC)  
 +1151 4/02, het and carrier in KNBR null; loop bearing impossible. (Portzer, WA)
- 690 HAWAII, Honolulu, KKUA, w/Cliff Richard special 0958 11/23. (Taylor, Fiji)  
 +Singing ID 1244 11/25. Fair w/usual rock and roll. XETRA off. (Hall-Patch, BC)  
 +Dominant w/rock mx 0904 until KGGF s/on 1100 12/16 w/XETRA/KNBR off. Very strong at times. (Portzer, WA)  
 +1000 2/10, good w/rock mx w/XETRA off. (Portzer, WA)  
 +Dominant w/rock mx all morning 3/03 and 3/05, w/XETRA off. (Portzer, WA)
- 693 CHINA, location unknown, Peking-like pips 1200 11/23, then anthem (not Internationale), then all mx 4KQ. (Taylor, Fiji)
- 693 JAPAN, Tokyo, JOAB, NHK-2, noted 11/25 1200 w/pips and NHK ID poor-fair. XETRA-690 off this Saturday morning. (Seaver, CA)  
 +Likely source of het on 690 looping NW 1010 11/23; 1141 11/26; w/traces of JJ 1017 11/27. (Everitt, CA)

- +Probably the male and female in JJ 1113 fair. Bad het. //891 11/30.  
(Williams, OR)
- t +Most likely as cause of very bad het on XETRA during good Japan conditions  
1208 12/01. (Everitt, CA)
- +Good signal 0815, male in JJ, and putting a good het on 690 12/04.  
(Gradin, OR)
- +EE lessons 0940 12/16, man and woman in JJ and EE discussing Christmas  
Parties, etc. 0952, mx in EE 1000 o/unid station w/chorus, more EE lessons  
1023; early 60's rock hit "Be My Baby" by the Ronettes heard 1033, then man  
and woman discussing the entertainment industry. At 1035 began talk by  
female in EE w/very British accent. Noted //747, 774, 828, etc.  
(Portzer, WA)
- +1143 12/16, JJ talk, mx, strong het only at other times. (Harms, UT)
- +1253 12/16, female w/JJ talk //747. Not a great signal for listed 300kw.  
(Hall-Patch, BC)
- +12/18 1140 NHK ID. (Lobel, CA)
- +1234, 1305 2/18, fair w/JJ talk. XETRA off. (Portzer, WA)
- +1120 2/26, weak w/JJ talk. "Nippon Hoso Kyokai" at 1120. (Tomer, CA)
- +1443 2/28, language lessons, very good. (Williams, OR)
- +1125 3/05, fair w/JJ talk. (Portzer, WA)
- +1335 4/06, u/XETRA slop w/NHK-2 program. (Tomer, CA)
- 693 ? UNID, faint carrier here from west and SW 1215 11/23. Kept trying north-  
erly looping each of the 4 mornings but found no trace of Tokyo.  
(Martin, CO)
- +Carrier in faint 1038 12/04; KNBR looped but still rough. (Peterson, CA)
- 700 ALASKA, Anchorage, KBYR, 1225 8/26 noted w/pop mx, Alaskan TC and PSA for  
Alaska State ?? on how not to get your car stolen. (Hall-Patch, BC)
- +1242 9/22 w/best signal yet w/schmaltzy mx, "YR-7-0" ID and wx for Anchor-  
age area. (Hall-Patch, BC)
- 702 AUSTRALIA, Sydney, 2BL, ABC-1, fair carrier 1010 11/23. Fine audio 1200 11/  
24 w/"This is ABC Radio One, eastern summer time is 11 o'clock". 6 pips  
then "nx in brief". (Hall-Patch, BC)
- +Assumed the source of light instrumental mx looping towards Australia 1108  
12/25. (Portzer, WA)
- +6 pips 1300 and into mx. Good on 11/25 and 11/26. (Gradin, OR)
- t +Probable w/DU accented nx or discussion looping DU 1205 11/27; some traces of  
cw-like mx at 1220 retune, KNBR-680 slop nct helping matters at all.  
(Everitt, CA)
- t +1047 11/28 good in terrible KNBR-680 slop, no audio extractable until 1052  
when some snatches of speech and MoR pop were noted, looping DU. 1017 11/29  
carrier equal to WLW at times, no audio distinguishable in combined WLW het  
and KNBR slop (not to mention XETRA) also loops DU. (Everitt, CA)
- +1148-1200 2/02, w/easy listening mx, weak and fading, no voice ID but nice  
6 pips at 1200. (Peterson, CA)
- +1135 2/05, good signal w/jazz. (Tomer, CA)
- +1135 2/26, weak w/jazz. (Tomer, CA)
- +1223 3/11, most likely w/jazz vocal. (Williams, OR)
- +1144 4/02, good w/what sounded like drama, possibly //774. (Portzer, WA)
- +1333 4/06, fair w/jazz. (Tomer, CA)
- +1314 4/05, fair w/jazzy vocal. (Tomer, CA)
- +1015 4/09, good signal w/play. (Tomer, CA)
- +1014 4/09, fading up from a carrier to 2 male talk, poor at best but direct-  
ion OK, per loop. (Hall-Patch, BC)
- +1223 4/16, fair-good w/light jazz. (Korinek, WA)
- 702 JAPAN, Hiroshima/Kitami, JOFB/JOKD, NHK-2, tentative 11/24 1414 w/man in JJ.  
(Pejza, CA)
- +Had audio 1040 12/04, then came back on the hour for definite NHK pips.  
(Peterson, CA)
- +Talk //693 1045 12/16. (Portzer, WA)
- +1250 12/16, fair w/male and female in JJ, //747. (Hall-Patch, BC)
- +0952 2/05, weak w/EE lessons. (Tomer, CA)
- +1459 3/03, male w/ID then anthem and off. (Williams, OR)
- +1123 3/05, fair w/JJ talk thru KIRO-710 slop. (Portzer, WA)
- 702 ? UNID, carrier looping DU 1022 11/23 and 1345 11/24. (Peterson, CA)
- +1125 12/10 carrier, loop bearing not possible due to obnoxious KIRO-710 slop.  
(Bytheway, WA)

- 711 t FIJI, Suva, FBC seems most likely cause of bad het on 710 looping South Pacific/DU, although a couple of Aussies also possible 1019 11/29; flipping between this and 702. (Everitt, CA) (Fiji was heard several times here when they were on 710, so probably them. -bp)  
 +Assumed the Hindustani programming looping DU 1025 12/25. (Portzer, WA)  
 +1040 1/15, fair w/Hindi program // to 891. (Tomer, CA)
- t +1040-1105 1/29, suspected putting a good het on KIRO-710, having het disappear at 1105 makes Fiji the best bet. (Peterson, CA)
- t +0941 4/02, fair strength w/oriental sounding vocal and string mx followed by male in unknown language. 1100 s/off impossible due to KIRO open carrier. (Hall-Patch, BC)  
 +0735 4/12, weak w/Hindi talk. (Tomer, CA)
- 711 ? UNID, carrier looping SE Asia 1347 11/24. Many possible. (Peterson, CA)
- 725 NORTH KOREA, Kimchaek, running the religious sounding broadcast //655 1340 9/10, fair. (Tomer, CA)
- 729 t AUSTRALIA, Adelaide, 5CL, ABC-2, 12/18 1146 possible w/strong het against KEX-730. No audio. (Lobel, CA)  
 +1257 4/05, weak w/very quiet flute mx, fair at 1300 w/ABC ID and 6 pips. (Tomer, CA)
- 729 ? UNID, carrier 1046 12/04 looping DU. Two exciting possibilities: 5CL and Noumea! (Peterson, CA) (Noumea was reported on 666 last week by Pete Taylor, so I'm now unsure of the status of this one--possibly it's just an allocation they aren't going to use for a while, in which case your het was probably 5CL. -bp)  
 +1143 4/02, weak het in CKLG-730 null. (Portzer, WA)
- 738 AUSTRALIA, Grafton, 2NR, ABC-3, fair-good w/wx 1113 12/18. (Portzer, WA)  
 +1032 1/01, apparently the DU evident after Tahiti s/off, weaker. (Peterson, CA)  
 +1145 1/08, fair signal quiet mx, DU type EE talk. (Tomer, CA)  
 +1140 2/05, piano mx. (Tomer, CA)  
 +1315 4/05, weak w/vocal //702, listed as different networks. (Tomer, CA)  
 +1332 4/06, weak u/KCBS-740 slop w/jazz. Not so strong since its change from 700. (Tomer, CA)
- 738 SOCIETY ISLANDS, Papeete, Tahiti, FR3 possibly the carrier detected w/BFO 0537 10/23; looped too far west to be a latin. (Martin, CO)  
 +Noted here after phone tip from Gene Martin. Fat het below KCBS/CBX 0555-0730. 11/23 in and out but no audio ever definitely heard. Was also heard by Korinek and Bytheway w/similar results. Checked SW // 11825 and noted drama to 0700+, then mx, followed by piano mx to 0728 ID and s/off, native chorus, then French national anthem. SW carrier cut 0732 but 738 het remained (was off by 0800, though). Also noted 11/25 as early as 0450. I assume this is Tahiti per loop bearing and frequency plan. Looks like it's only a matter of time before it's definitely IDed; unfortunately it loops almost 180° from CBX and about 20° from KCBS, so the slop is rather bad. (Portzer, WA)
- t +Carrier and het 0607 11/23. (Bytheway, WA)  
 +Positively IDed 0750-0805 11/26 by checking w/SW // on 11825 kHz. Had Polynesian mx w/male announcements. Note that this one stays on until 0900 Sunday mornings only. (Portzer, WA)
- New country #68, s/off w/"La Marsellaise" 11/27 0732 when carrier dropped. Surely this one will become the #1 TP prospect for Eastern DXers w/it's occasional fine volume and its early fade in evenings. Carrier located in Denver as early as 0458 11/26. I found it's carrier 0537 11/23 and reported it immediately to Bruce Portzer. I hear it best when looping Southwest and it's always tough to separate its audio from San Francisco and Tulsa. But occasionally the Tahiti audio rises to such a height that it becomes fairly clear of the 730 junk and generates a shrieking het against 740. The volume of this station w/20kw, in the same time zone as Hawaii, is many times stronger than I ever heard from Tarawa. I suspect it also benefits from auroral conditions for it was giving me a fine signal w/the A index at 31 11/26 and at 25 11/27. Signals from NE US have been fantastically weak during the first 5 nights after the TP frequency change. On Sunday morning, Tahiti remains on beyond usual 0730 s/off which was mentioned recently in DXWW-II. Confirmation of this came as I heard it 0811 11/26, but it was gone 0920 recheck. (Martin, CO)

- +Very strong signal noted here at times. Taped 0850 11/26 for a report. (Aden, OR)
  - +Het has been here every evening I've tried since 11/23 until s/off 0730 (0900 Sunday mornings). 11/26 was the only time I've pulled audio, though. (Portzer, WA)
  - +This may turn out to be one of the most widely heard Pacific stations. Heard virtually every night 11/24-12/02 w/good audio during peaks from around 0700 to 0728 s/off. Seems to come in well even when Tarawa and Fiji aren't. Plays FF national anthem at s/off. (Tomer, CA)
  - +Audio detected for the second time, male talk, then jazz mx thru heavy KCBS-740 sloop 0715 12/14. Carrier detected w/BFO as early as 0414 12/15. (Portzer, WA)
  - t +Probably the male in what sounded like FF looping measured 210° (Tahiti bearing actually is 208°) 1021 12/25. Woman in what sounded like vernacular 1022 thru bad CKLG sloop. No SW //s heard but assume it was this one on late for Christmas eve activities. (Portzer, WA)
  - +0416 12/26, good signal o/KCBS sloop. Talk in Polynesian language. WRTN says Tahitian this time; FF after 0600, also 0845 1/07, late Saturday night schedule. (Tomer, CA)
  - +0957-1030+, 1/01, apparently on late for New Year. Played quite a bit of mx. "Summer Nights" from "Grease", "Let's Fall in Love" in FF. (Peterson, CA)
  - +0850-0900 1/07, mx program //11825. 0900 short announcement by male, into mx. FF national at 0901 followed by abrupt carrier off 0902½. In KCBS null clear and steady most of the time. (Bytheway, WA)
  - +0623-0655 1/28, heard w/good signal at times stronger than //11825. (Block, OR)
  - +0638-47 2/19, bits of male talk and mx thru sloop. SW //s 11825/15170 were inaudible. (Portzer, WA)
  - +0605 2/27, poor u/fierce KCBS sloop, w/female in FF. (Tomer, CA)
  - +0725-32 4/30, good-fair w/pop mx, s/off at 0730 began and ended w/Polynesian choral mx and seemed to mention, "...Radio Ta-ee-tee...", French national anthem began 0731, carrier out 0732½. This one should be easy for West Coast DXers Monday mornings during DST since KCBS goes off at 0700. Might even make it to east coast some day. (Portzer, WA)
  - +0703 5/14, fair w/mx in FF, 3 tones 0714 then EE female vocal. (Portzer, WA)
- 738 **UNID**, something in the TP category is here after Tahiti s/off. Carrier located from W and SW 11/23 1022 and 1130. Also 1032 and 1208 11/24, 1008 and 1200 11/25, and 1015 11/26. Some morning it will wirely be Grafton. (Martin, CO)
- +Weak carrier looping DU, but huge CKLG-730 splatter. 11/24 1154. (Hall-Patch, BC)
  - +Het and carrier 1136 11/25. (Bytheway, WA)
  - +Either Japan or S. Korea w/very good signal 1134 11/25. (Gradin, OR)
  - +Carrier 1050 12/04, looping DU. (Peterson, CA)
  - +0445 12/05 huge carrier looping DU. KCBS-740 and particularly CKLG-730 splatter obliterating any possible audio. Almost sure to be Tahiti. (Hall-Patch, BC)
- 747 t AUSTRALIA, Toowoomba, 4QS, ABC-3, poor 1137 11/25. (Gradin, OR)
- + "ABC-3" ID 1300 11/25 followed by pips. Poor-fair, some splatter interference. (Hall-Patch, BC)
  - t +Jazz mx looping DU 1343 12/02; at 1358 had a single tone and into man talking then KKL-750 put on their carrier, dashing any hopes on an ID. (Bytheway, WA)
  - +Good w/drama, male and female dialogue, 1120 12/18 //4920 SW. (Portzer, WA)
  - +1310 1/15, fair w/vocal. (Tomer, CA)
  - +1348 2/27, assumed the station w/light jazz mx, signal fair at best. (Korinek, WA)
  - +1025 4/04, noted fair w/piano mx and ABC network ID. (Korinek, WA)
  - +0800 4/10, during good Aussie sunset skip conditions, had stock prices, a "4QS" ID(!), 6 pips and ABC ID. Was hoping this was 3ZA. (Tomer, CA)
- 747 JAPAN, Sapporo, JOIB, NHK-2, man in JJ, then female w/announcement 1138 11/23. (Korinek, WA)
- +Poor-fair audio (female in JJ) 1120 11/23. Far w/male in JJ //774 1304 11/24. (Hall-Patch, BC)
  - +Not surprisingly my first TP on the 9kHz frequency plan, noted w/slow JJ talk 0705 11/24. (Tomer, CA)
  - +Good signal most nights. Noted w/JJ and EE 1105 11/25. (Gradin, OR)
  - +Fair w/EE lessons, man in JJ, female in EE 1138 11/25. (Portzer, WA)
  - +Great signal 0920 11/27 w/EE lessons. (Tomer, CA)

+Very good-excellent w/occasional deep fades 1010 11/27 w/EE nx; retune 1020 w/conversational EE lessons w/alternating male and female; 1031 retune had EE lessons w/documentary on the state of California, female EE alternating w/JJ male announcer; 3Hz SAH became evident 1035. (Everitt, OK)

+Only fair 11/27 1110 w/NHK-2 program. (Seaver, CA)

+Totally outstanding w/EE nx 1205 12/01, easily thru light 740 slop (KCBS); noted as het only most other nights. (Everitt, CA)

+11/30 1106 w/female in JJ, nice signal. Also 12/02 1035-1040. VOA program in EE about American railroads //828. (Williams, OR)

+12/02 1254 w/woman and man //774. (Bytheway, WA)

+1053 12/04 very strong w/EE lessons. (Peterson, CA)

+Booming in w/female talk 0617 12/14, about 40 minutes before local sunset there! In and out w/various male and female discussions until 0700 NHK pips, then more JJ talk. This is the earliest I've ever heard Japan. WWV said Solar Flux was 230, A index 40 at the time, following an assortment of solar activities. Reception was obviously due to an enhancement caused by disturbed geomag conditions. Checked other frequencies and couldn't find any other Japanese stations until after 0730. (Portzer, WA)

+Assumed the one making a loud het on YNK/WSB-750. Bits of audio noted 12/14 0830. (Harms, UT)

+12/18 0935 w/EE lesson. Excellent. (Lobel, CA)

+Good audio 1117 12/18. (Taylor, CA)

+0914 1/11, weak u/noise w/JJ. (Tomer, CA)

+0945-1015 1/16, EE lesson to 1000 time pips, and NHK EE nx. ID at 1015, "That is the end of the news from NHK". (Harms, UT)

+1212 1/23, back again w/fair audio after a week's absence. (Korinek, WA)

+1143 2/04, fair //774 (Portzer, WA)

+1040 2/04, w/EE play, //774. (Tomer, CA)

+1350 3/02, //774. (Williams, OR)

+0833 3/19, 1st TP to fade in. Good w/very strong pips at 0900, then bits of oriental mx and female talk. (Portzer, WA)

+1055-1100 good signal, very readable w/EE lesson and pips. Usually best TP audio here. (Harms, UT)

+1047 3/20, poor-good w/male in JJ. (Korinek, WA)

747 UNID, one of the more interesting TP frequencies, for the carriers being heard in the TP hours, come from both SW and NW. Noted this 11/23 0950, 1122 and 1204. Same thing 11/25 and 11/26 in the corresponding hours. At 1204 11/25, the NW signal was the strongest of the 2. But there was no audio from either direction. This is surely Japan to the NW but don't know what to think about the carrier from Australia/New Zealand direction. (Martin, CO)

+1113 5/28, fair carrier looping DU. Probably 4QS. (Portzer, WA)

750 ALASKA, Anchorage, KPOD, good 1119 8/20 w/pop mx and local PSA. (Portzer, WA)

+8/20 1128-1130 fair-poor w/pop mx but alone; weak ID 1129½. (B. Hardy, WA)

+9/22 fighting w/JOIB, KMMJ nulled. MoR mx and clear ID 1146. (Harms, UT)

+Loud w/rock mx, singing ID and nx 1000. (Portzer/Block/Aden, OR)

+Very good w/rock oldie 0743 10/22 on a "Golden Oldie" weekend. (Portzer, WA)

+10/23 0838 fair o/JOIB, man w/wx, then cw song. (Korinek, WA)

+Good w/rock oldies 1328 12/11. (Portzer, WA)

+0638 1/19, good w/rock mx, local ads. No WSB/YNX interference. Unusual conditions, good high latitude domestics, poor low latitude. WMAQ killing KBOI, WLS and WHAS very strong. WSM/KDRL inaudible even WWI and WBAP weak. (Portzer, WA)

+0940 3/19, local quality w/rock mx. (Portzer, WA)

+0843-0910 3/21, armchair level at times, clean ID across hour, into AP nx and wx at 0905. (Korinek, WA)

756 t NEW ZEALAND, Auckland, 1YA, probably the DU carrier 0918 11/23. (Portzer, WA)

+Pips and "Radio New Zealand" ID 1100 11/23. Fairly good strength. (Hall-Patch, BC)

+Audio first heard here 1156 11/23. 6 pips heard 1300. (Korinek, WA)

+Found every morning 11/23-26 a most dependable DU beacon. First day, 11/23, the New Zealand pips heard 1100 followed by nx w/a lady nxcaster. Earliest heard during the 4 mornings 0735 11/26, when the carrier appeared, no audio at that time. But this New Zealand arrival came at a time when KFMB telephone talk show was overriding the mx from WJR. Does this suggest that auroral conditions will not necessarily kill off the DUs? If not, what does it suggest? (Martin, CO) (No, auroral conditions does not necessarily kill off DUs, since auroral effects have their strongest effects on the higher latitudes. In some instances, auroral conditions (or similar phenomena) can actually enhance DU reception.-bp)

- +This is by far the most dependable DU for me (aside from the 738 Tahiti bet).  
Noted w/good audio when other DUs aren't all that great. Sample reception:  
11/25 1058 w/orchestral mx, then female announcement after 6 pips, then fe-  
male w/nx 1100 //819. Location on the coast near the northern tip of New  
Zealand apparently has something to do with it. (Portzer, WA)
- +1205 11/25 loud audio, man w/nx. Assume this was 1YA per tip from Bruce  
Portzer. (Bytheway, WA)
- +Jazz mx, fair, 1326 11/29. (Gradin, OR)
- +Instrumental mx good thru slop 1116 12/16. (Portzer, WA)
- +In well w/usual MoR mx 1133 12/25. (Portzer, WA)
- +1110 1/08, never heard on 760 due to KGU, now is easy. Noted w/Radio New  
Zealand nx. (Tomer, CA)
- +0842 1/10, noted fair w/jazz-orchestra mx, 6 pips heard across the hour at  
1100. (Korinek, WA)
- +0930 1/29, most likely the weak signal, looping to New Zealand.  
(Peterson, CA)
- +1245 2/12, good-excellent w/instrumental mx and female w/nx at 1303.  
(Portzer, WA)
- +1000 2/18, booming in w/6pips and female announcement, still good 1051 but  
gone 1212. (Portzer, WA)
- +1140 2/26, weak w/pop mx. Female announcer. (Tomer, CA)
- +1348 2/27, at blistering level w/typical jazz/orchestra mx and female an-  
nouncer. (Korinek, WA)
- +1100 3/03, fair-excellent (as usual) w/6pips and female w/nx. (Portzer, WA)
- +1120 3/05, w/piano mx, jazz. (Portzer, WA)
- +1137 4/02, block-buster signal, w/cocktail mx. (Korinek, WA)
- +1140 4/02, best signal so far from them w/jazz mx. (Portzer, WA)
- +1016 4/04, near local signal w/male/female announcers, w/usual cocktail mx.  
6 pips at 1100. (Korinek, WA)
- 756 ? UNID, Carrier looping DU 1027 11/23 and 1400 11/26. 1YA? (Peterson, CA)  
+Carrier 1056 12/04, last time it was DU, now looping N. Asia. Probably a  
different station--JOGK? (Peterson, CA)  
+Someone looping NE Asia w/instrumental mx 1055 12/04. In total conformance  
w/Murley's Law it suddenly faded down to nothing--not even a trace of a car-  
rier heard by 1100. (Portzer, WA)  
+0750 1/06, DU w/EE vocals, probably 1YA very weak. (Tomer, CA)  
+1248 3/11, probably Aussie w/EE announcements and light mx, gone 1257.  
(Williams, OR)  
+0949 5/28, fair DU carrier, surely 1YA. (Portzer, WA)
- 760 HAWAII, Honolulu, KGU, 1126 9/25 w/female announcer, spot for Hawaii film  
board, then "Radio 76...for Hawaii". Good signal in null of unid SS.  
(Hall-Patch, BC)  
+Very good, jazz, 0955 11/23. (Taylor, Fiji)  
+0950 1/11, Excellent w/piano virtuoso. (Korinek, WA)  
+0507 4/10, good u/KFMB w/spot for live jazz, then singing ID. (Tomer, CA)
- 765 NEW ZEALAND, Hastings, 2ZK, 1000 1/11, w/piano mx. //882. Radio New Zealand  
ID 1005, mentioned concert program. (Tomer, CA)  
t +1110 1/29, seems to be the most likely putting in a strong carrier looping  
New Zealand. (Peterson, CA)  
+1007 3/03, fair w/nx, sounded //882. (Portzer, WA)  
+1017 4/02, often a carrier here, but poor-fair strength audio finally noted.  
Male and female talk //657, at times equal to it. (Hall-Patch, BC)  
+1033 4/04, assumed the one w/apparent concert net in fair. (Korinek, WA)  
+0847 4/16, poor-fair w/male and female talk. Strongest New Zealand at this  
time, 657, 756, 1008, 819 etc. all became stronger within ½ hour.  
(Hall-Patch, BC)
- 765 ? UNID, carrier looping SE Asia 1030 11/23. (Peterson, CA)  
+Weak carrier 1006 11/23 and 1155 11/24. DU. (Hall-Patch, BC)  
+0929 1/14, good carrier, loops DU. (Portzer, WA)  
+1005 2/18, bits of male talk loops DU. Probably New Zealand. (Portzer, WA)  
+0842 4/02, male talk looping DU. Probably New Zealand. (Portzer, WA)  
+1205-1220+ 4/02, powerful open carrier here, probably New Zealand.  
(Korinek, WA)  
+1225 4/30, strongish DU carrier here, but 2ZK supposed to s/off at 1200.  
Perhaps open carrier left on after s/off? (Hall-Patch, BC)
- 774 t AUSTRALIA, Melbourne, 3LO, ABC-1, lush piano mx in and out up to hour w/ABC  
pips; however, was mixing w/JOUB w/Nick Hall-Patch's tape showing 2 sets of

- pips (ABC and NHK) 1240-1300 11/24. (Newell, BC)  
 +1256 11/24, male in accented EE, then light mx to 6 pips 1300, mixing w/NHK's pips...confusing. (Hall-Patch, BC)  
 +Pop recording of "Alone Again Naturally" 1251 11/25, then more MoR, 5 pips (I think) 0500, then man in EE. (Portzer, WA)  
 +Accented EE looping DU w/jazz mx 1138 11/25. JOUB heard w/loop rotated. Tuned back 1201 and heard this w/EE mx. No sign of JOUB at that time. (Bytheway, WA)  
 +Fair w/US top 40 song 1015 11/26. (Gradin, OR)  
 +Noted //9680 SW 1145 12/25 w/"Silent Night" sung by chorus. (Portzer, WA)  
 +1003 1/11, fair w/ABC mx. (Tomer, CA)  
 t +1207 2/02, most likely the weak easy listening mx, loops DU, also noted weak het from Japan. (Peterson, CA)  
 +1248 2/12, assumed the station w/instrumental mx. (Portzer, WA)  
 +//702 at 1138 2/26. (Tomer, CA)  
 +1400 2/28, ABC pips (6) heard across hour w/male in EE w/s/off announcement and national anthem. Noted test tone from 1403-10 tune out. All w/fair-good signal. (Korinek, WA)  
 +1221 3/05, good w/mx and male talk, 1221 3/05, w/female jazz vocal. (Portzer, WA)  
 +1302 3/11, nice jazz mx, then JJ in and on top by 1305. (Williams, OR)  
 +4/02, 1140 in fair as usual w/male in accented EE. (Korinek, WA)  
 +1141 4/02, fair w/what sounded like a play. (Portzer, WA)  
 +1317 4/05, fair u/strong JOUB w/easy listening. (Tomer, CA)  
 +1325 4/06, fine signal w/jazz. (Tomer, CA)  
 +1220 4/30, carrier only, fading up to fair audio w/male talk, then jazzy flute mx. //6150 SW. (Hall-Patch, BC)

774

- JAPAN, Akita, JOUB, NHK-2, talk in JJ and no interference on or off channel 1038 11/23. (Peterson, CA)  
 +Weak JJ talk 0825 11/24. (Tomer, CA)  
 +Poor-fair, male in JJ //747 1304 11/24, No sign of this just 10 minutes earlier, only 3 LO. (Hall-Patch, BC)  
 +Apparently the one 11/24 1421 w/man in JJ; poor-good. (Pejza, CA)  
 +1138 11/25 w/remale in JJ. (Bytheway, WA)  
 +Blasting in 1142 11/25 w/EE and JJ. (Gradin, OR)  
 +JJ talk thru bad KOB-770 slop 1151 11/25 //747. (Portzer, WA)  
 +Carrier only 1005 11/23; 1103 11/27 very good w/JJ nx. (Everitt, CA)  
 +Usual NHK program w/pips 1200 11/24. (Korinek, WA)  
 +Good 11/27 1100 w/pips and NHK ID. (Seaver, CA)  
 +Definitely the best JJ station so far; 1415 11/30 had very good signal w/JJ talk, alternate male/female announcers, possibly language lessons, although if so, I failed to ID 2nd language. 1202 12/01 very good w/EE nx (World and Japan) by very non-accented (US-sounding) announcer 1107 12/02 excellent w/conversational EE lessons w/phrases like "He always said he'd work for himself all his life", seems to be a lesson in capitalism, too, hi. 1156 12/03 excellent w/JJ talk. (Everitt, CA)  
 +12/04 1053 w/language lessons. Some KOB-770 slop. (Lobel, CA)  
 +In solid 1105 12/04. (Peterson, CA)  
 +...-pips about the only think audible thru slop 0800 12/14. (Portzer, WA)  
 +1151 1/22, fair w/male in JJ. Other JJ stations inaudible this time, though 747 and 828 were heard ½ hour later. (Portzer, WA)  
 +1213 1/23, //747. (Korinek, WA)  
 +First Asian audible 0957 2/18 and at bodacious levels at various time. 1100-1300. Still there at 1308 after most other Asians had vanished. This is easily the best JJ station here. JOIB-747 is distant 2nd. JOBB-828 is distant 3rd, and JOGB-873 is 4th in terms of strength and dependability. (Portzer, WA)  
 +1450 2/28, male and female w/FF talk or likely language lessons, some JJ talk by female. (Verlings, OR)  
 +1348 3/02, w/EE lessons, super signal best in long while. (Williams, OR)  
 +1118 3/05, fair w/NHK signature melody //747, 828. (Portzer, WA)  
 t +1045 3/19, strong het w/KOB interference. (Harms, UT)  
 +1048 3/20, in fair //747, 828. (Korinek, WA)

774

- UNID, TP carrier faint when KOB nulled 1100-1220, various times, 11/23, 24, 25. (Martin, CO)

780

- ALASKA, Nome, KNOM, 0835 1/20, good signal w/KCRL off and WBBM looped, vx and ID. (Block, OR)

780

- AUSTRALIA, Townsville, 4TO, fair-poor w/end of rock song 1006 10/02, into DU-accented vx report w/mentions of Townsville, "the coast", and "inland" w/

temperatures in Centigrade. Then spot for a discoteque mentioning "Townsville's number one...". Horseracing-type fanfare and what sounded like horse race results followed. Then faded u/WBEM. (Bytheway, WA) (This station has since moved to 774.-ed)

- 780 CHINA, Shijiazhuang, 5 and one pip sequence noted u/WBEM 1300 11/10. Bits of oriental talk (unid language shortly before and after top of the hour but don't know if it was them. There seemed to be a second set of pips u/them but couldn't quite make them out. (Portzer, WA) (This station has since changed frequency.-ed)
- 783 JAPAN, Naha, JOXR, 1325 4/06, JJ talk and pop mx. Never heard on 780 khz due to NHK-1 interference. (Tomer, CA)
- 783 USSR, Spassk Dalniy, RSPSR, 1240 2/18, fair w/MoR vocals in RR. //4485. (Portzer, WA)
- 783 ? UNID, weak carrier looping NW 1003 11/27. (Everitt, CA)  
+Carrier 1106 12/04 looping S. Asia, strengthening to weak audio but unreadable. (Peterson, CA)  
+Weak signal noted 1025-30 12/18 looping TP. Several possibilities. (Peterson, CA)  
+0931 3/18, carrier looping west. (Portzer, WA)
- 784 NORTH KOREA, Pyongyang, in w/good signal 1420 10/26, had choir and KK talk. (Tomer, CA) (See also below.-ed)
- 785 NORTH KOREA, Pyongyang, apparently still here; weak carrier 1423 11/24. (Pejza, CA) (See also above.-ed)
- 785 ? UNID, carrier 1039 11/06. Must be the N. Korean. (Peterson, CA)
- 792 t AUSTRALIA, Brisbane, 4QG, ABC-2, good signal but deep fades 1326 11/29. (Gradin, OR)  
+1256 2/08, fair carrier 1258 good w/female talk at 1300-6 pips and solid kept it touch and go. (Bytheway, WA)  
+1346 4/03, fair w/quiet piano mx //836. (Tomer, CA)  
+1040 4/04, was on lookout for 750kw. Singapore when 4QG came up w/network MoR mx. (Korinek, WA)
- 792 ? UNID, weak-fair carrier 0921-1254 at various times 11/23. (Korinek, WA)  
+DU het here 1212 11/25. (Portzer, WA)  
+Carrier 1112 12/04 looping S. Asia, Singapore? Not too likely under the conditions at that time. (Peterson, CA)  
+1215 2/02, carrier loops DU, 4QG likely. (Peterson, CA)  
+1154 4/02, instrumental mx, fair-poor, soon lost in 790 slop. Probably 4QG. (Portzer, WA)
- 801 ? UNID, carrier 1118 12/04 very weak and w/KGO-810 slop. (Peterson, CA)
- 819 AUSTRALIA, Glenn Innes, 2GL, ABC-3, 1047 2/26, fair w/jazz. (Tomer, CA)  
+1402 4/04, w/ABC ID, s/off announcement, then national anthem. (Tomer, CA)  
+1245 4/06, fair w/jazz. //837, 855. No sign of 1YZ. (Tomer, CA)
- 819 JAPAN, NHK-1 synchros, 1245 4/06, fair briefly o/2GL. (Tomer, CA)
- 819 t NEW ZEALAND, Rotorua, 1YZ, fair in WBAP-820 splatter, only caught 5 pips, no Radio New Zealand ID, but definately points to this 1000 11/23. (Hall-Patch, BC)  
+Man reading off list of cities and numbers 1211 11/25, wiping out WBAP. (Bytheway, WA)  
+Second easiest Zedder here after 756. Het heard frequently, but audio not heard too often. When it does break thru though it's creaming WBAP! Noted 1102 11/25 w/female mx //756; again 1000 11/26 w/classical guitar mx to top of hour, no pips, female w/"Radio New Zealand" ID, then what sounded like network nx. (Portzer, WA)  
t +Suspected cause of het on WBAP looping DU 1440 11/30. (Everitt, CA)  
+1400 12/02 6 pips and into nx, then wx w/mention of various New Zealand cities. Mx 1403, then "Radio New Zealand" ID and "4 mins past 2" time check followed by a rundown on programs. Easy listening mx began 1405. (Bytheway, WA)

- +Assumed the source of mx looping DU 1034 12/25 w/heavy slop from KGO-810, which had mx instead of talk for once. (Portzer, WA)
- +0816 1/10, excellent w/female and male in accented EE talk. (Korinek, WA)
- +0930 1/11, excellent signal w/MoR vocal //756. (Tomer, CA)
- +0933-1000 1/14, good w/piano mx, 1000-nx. (Portzer, WA)
- +1214 1/22, fair w/mx, only DU audio this time. Loud het against WBAP. (Portzer, WA)
- +1250 2/12, //756. Loud w/light mx, loud het against WBAP-820. (Portzer, WA)
- t +1544 2/26, carrier loops DU still there 1605, but gone by 1614. Reception probably due to eclipse as local sunrise here at the end of February is 1504. (Hall-Patch, BC)
- +0700 3/12, already putting het on WBAP-820, no audio heard but loops DU. (Portzer, WA)
- +0830 4/02, big signal w/male w/"This is the National program and Shortwave service of Radio New Zealand", into mx about New Zealand trucking strike. (Hall-Patch, BC)
- +1142-1218 4/02, excellent signal, w/nx to 1215 and "Radio New Zealand" ID into easy listening. (Korinek, WA)
- +1156 4/02, incredibly loud w/jazz and male announcer, armchair copy w/no WBAP interference. (Portzer, WA)
- +1402 4/04, fair o/2GL w/remale reading nx good signal after 2GL s/off, easy listening mx by 1405. (Tomer, CA)
- +1112 4/07, in all morning w/good audio. (Korinek, WA)
- +0818 4/11, weak audio w/instrumental mx. // to 6105 short wave. (Tomer, CA)
- 819 ? UNID, het looping DU, quite strong, 0925 11/23. 1YZ and 2GL, both 10 kw, listed. (Portzer, WA)
- +1037 11/23, weak carrier. (Korinek, WA)
- +Hetting WBAP w/little or no audio 1147 11/25. (Gradin, OR) (Probably 1YC.-bp)
- +Carrier looping DU 1305 11/25. (Peterson, CA)
- 820 NORTH KOREA, Najin, fair w/KK ranting 1402 9/09 //655 and 850, but stronger at this time. (Tomer, CA)
- 828 AUSTRALIA, Sale 3GI, ABC-3, faint carrier looping Australia 0950 11/23. Light jazz guitar, poor-fair 1246 11/24. IDed by short wave //6150. (Hall-Patch, BC)
- +1158 11/25 man in accented EE, 6 pips, then ABC nx. (Bytheway, WA)
- t +EE talk looping DU 1049 11/25, then vocal song. (Portzer, WA)
- t +Poor audio 1022 11/26. (Gradin, OR)
- t +Possible cause of bad het WCCO-830 1023 11/29 looping DU. (Everitt, CA)
- +12/18 1155 possible w/strong het against WCCO. No audio. (Lobel, CA)
- t +Probably the source of bits of audio 1150 12/25. (Portzer, WA)
- +1259 2/12, male talk, then 6 pips on hour, fair-poor w/ WCCO het. (Portzer, WA)
- +1102 3/29, probably source of male in accented EE. (Korinek, WA)
- +1338 4/07, probably the station w/MoR mx, loops DU. (Korinek, WA)
- +0815 4/11, w/discussion program //837, 855. (Tomer, CA)
- 828 t JAPAN, Osaka, JOBB, NHK-2, must have been the female in oriental language 0855 11/23, then what sounded like mx. Fair carrier, weak audio. No pips heard 0900 or 1100. Looped towards Japan, nothing heard on 747/774. (Portzer, WA)
- +Weak carrier looping towards Japan 1039 11/23. (Korinek, WA)
- +Weak u/noise w/JJ talk //747 0714 11/24. (Tomer, CA)
- +New frequency is making this one appear earlier as first noted here 0755 11/24. (Aden, OR)
- +1359 11/24 end of EE lesson? 2 males sid "goodnight everybody", then female spoke in JJ for a moment, flute mx and NHK pips on the hour. Good. (Hall-Patch, BC)
- +Man good in JJ 11/24 1429; NHK theme mx 1438 but faded before ID. (Pejza, CA)
- +NHK signature melody at end of EE lessons 1140 11/25, then female w/possible NHK ID. (Portzer, WA)
- +EE lessons looping towards Japan 1150 11/25. (Bytheway, WA)
- +Usual pips 1100 11/23 for positive ID. Heard 1405 11/25 w/talk in SS: (Language lessons?-bp) Really freaked me out until I checked WRTH which gives SS 1400-20, CC 1420-40, FF 1440-1500. Never heard this before since I rarely listen this time of day. (Peterson, CA)

- +First noted as weak carrier 1212 11/26; 0959 11/27 w/muffled JJ talk, short mx piece, then single half-second pip, chime-like, not sharp, then into JJ mx or similar; 1037 retune w/excellent signal and occasional deep fades //747 w/EE lessons about California. (Everitt, CA)
- +NHK-2 program 11/23 1052 fair, 11/24 1040 good, 11/25 1203 fair, 11/26 1148 poor, 11/27 1055 poor, 11/28 1400 poor w/pips and ID as NHK. (Seaver, CA)
- +Bombing in w/excellent signal 1406 11/29. (Gradin, OR)
- +1043 12/02 w/EE talk by western-US-accented man about American mx w/inter-spersed cowboy-type ballads, possible documentary as part of language lessons 1213 12/03 w/excellent signals and very good audio quality w/JJ talk. (Sound-ed slightly processed, like US stations. (Everitt, CA)
- +12/16, noted all morning w/EE lessons. (Harms, UT)
- +1/22, fair w/JJ male until 12:59:40 when NHK signature melody and 3 and 1 time pips. //747, 774. (Portzer, WA)
- +0810 1/28, w/JJ talk. (Tomer, CA)
- +1045 2/26, good signal w/JJ talk. (Tomer, CA)
- +1335 3/02, EE lessons, female w/NHK ID at 1339, strong. (Williams, OR)
- +1112 3/19, strong carrier w/fair audio JJ talk. (Harms, UT)
- +1051 3/20, in fair //747, 774. (Korinek, WA)
- +1310 3/25, heard w/fair quality. (Pejza, CA)
- +1321 4/05, weak w/"Nippon Hoso Kyokai" announcement. (Tomer, CA)
- 830 HAWAII, Honolulu, KIKI, 0522 9/03 fair w/"7:22 time check and mentioning a show coming to Hawaii. (Hall-Patch, BC)
- +ID 1210 w/good audio and rock mx. Nulled them to bring in Japan 1259 w/a Mexican popping in and out. Strong. (Wilson, CA)
- +Good thru WCCO w/rock and roll 1206 11/04. (Brown, MI)
- +Pretty good 1315 11/26 on an otherwise dead morning during a geomagnetic storm. Note that this is after the shift so Hawaii is not going to the new plan which will minimize interference w/TPs. But you need Hawaii? Never fear; it will still be easier to hear w/o that pesky interference from JOBB, hi! (Peterson, CA)
- +0500 1/09, w/coyote howl, "Coyote Program" "KIKI Disco-83" (Tomer, CA)
- +0938 1/13, w/Top 40 no WCCO. (Harms, UT)
- t +Noted weak rock mx loops Hawaii at 1541, 1604, 1612 on 2/26, also noted faint talk in null of KIEV-870 around these times possibly KAIM, strong SAH in null of KWNW-720 (KUAI?) also weak mx loops Hawaii on 1040-KPOI?, local sunrise here was 1504 so I guess eclipse helped. (Hall-Patch, BC)
- 835 t CHINA, Nanchang, probably the one here w/weird sounding language and song setting 837. (Gradin, OR)
- 837 AUSTRALIA, Rockhampton, 4RK, ABC-3, 1159 11/26 "ABC Radio...summer time is 10 o'clock", 6 pips, then ABC national mx. Fair in splatter from 850(!). Weaker higher-pitched pips between the 6 pips...a feed problem on the network, or maybe New Zealand? (Hall-Patch, BC)
- +11/26 1200 w/"ABC Radio" mention, 6 pips, then mx. (Bytheway, WA)
- +s/off 1402 12/03. (Gradin, OR)
- t +Probably the one w/piano mx and EE voice (faint) looping DU 1320 12/17. (Peterson, CA)
- +1315 1/15, //4QS on 747. (Tomer, CA)
- +1335 4/04, good signal w/jazz. This is a good consistent Aussie station. (Tomer, CA)
- 837 JAPAN, Nigata, JOQK, NHK-1, assumed w/male and female in JJ 1134 12/16. (Portzer, WA)
- +In w/weak NHK pips 1100 12/18. (Peterson, CA)
- +0730 1/25, weak w/JJ talk. (Tomer, CA)
- +1250 4/06, w/NHK-1 program. (Tomer, CA)
- 837 NEW ZEALAND, Whangarei/Kaitiaki, 1YX/1YK, 0655 4/12, poor u/terrible local noise w/play that was //819 and 6105 short wave. (Tomer, CA)
- 837 ? UNID, Big carrier, snatches of male talk 0947 11/23 and 1209 11/24. Apparently DU. (Hall-Patch, BC)
- +One of the many "new" carriers this morning 11/24 1236. (Brown, MI)
- +Weak carrier only 0953 11/27, looped NW. (Everitt, CA)
- +Carrier, looped N. Asia 1015 11/27. (Peterson, CA)
- +W/faint voice looping Central Asia 1135-42 12/04. Perhaps China ex-835. (Peterson, CA)
- 846 t AUSTRALIA, Canberra, 2CY, ABC-2, possibly the station buried in KDA-850 slop

1009 11/29; no audio distinguishable, looping DU. (Everitt, CA)  
+1107 2/26, weak w/ABC nx and Australian announcements. (Tomer, CA)  
+1340 4/03, weak w/quiet piano mx o/low growl hets. Program was //792.  
Another weak station w/piano mx was heard underneath at 1342. (Tomer, CA)

- 846 GILBERT ISLANDS, Bairiki, Tarawa, VSZ-1, strong carrier 0946 11/23. Probably Tarawa as not noted after 1000. (Hall-Patch, BC)  
t +Probable source of strong carrier looping towards oceania 0720 11/24. Tarawa's usual carrier on 844 was absent so I assume they made the switch. (Tomer, CA)  
+Faint het and carrier thru horrendous sloop from local KTAC-850 12/01. (Portzer, WA)  
+0620 1/06, excellent signal w/comedy. (Tomer, CA)  
+0845 1/09, good w/native program. (Tomer, CA)  
+0900 1/15, w/usual island programming. (Peterson, CA)  
+0750 2/22, fair w/native female. (Tomer, CA)  
+0955 3/09, choral mx noted, carrier off at 1003. (Harms, UT)
- 846 ? UNLD, carrier 0924 11/23. (Korinek, WA)  
+Some audio, but too much KQA-850 sloop 1158 11/25. (Gradin, OR)  
+Carrier (DU) 1425 12/03. 2CY? (Peterson, CA)  
+Carrier (TP) 1144 12/04, as well as the above. Japan or Korea probable. (Peterson, CA)
- 850 NORTH KOREA, Pyongyang, good 1353 9/09 w/emphatic KK talk //655. (Tomer, CA)
- 855 AUSTRALIA, Maryborough/Eidsvold, 4QB/4QO, ABC-3, synchros, fair signal at 1000 2/05, w/pips and "ABC" ID. (Tomer, CA)  
+Fair w/quiet jazz. // to 891. (Tomer, CA)
- 855 ? UNLD, carrier 0925 11/23. (Korinek, WA)  
+Carrier 1315 11/25 and 1023 11/27. (Peterson, CA)  
+DU 0848 1/09, w/theme from "The Third Man", EE talk, single pip at 1030 followed by quiet mx. (Tomer, CA)  
+1245 4/06, weak oriental sounding talk; is HLKN on this frequency? (Tomer, CA)
- 864 t COOK ISLANDS, Rarotonga, ZK2ZC, possibly the ultra weak polynesian sounding station w/talk, noted at 0830 2/26, talk gone by 0835 but carrier remained on, fitting w/their 0834 scheduled s/off. (Tomer, CA)
- 864 INDONESIA, Cirebon, RRI, fair w/Indonesian talk 1345 9/09. (Tomer, CA)  
t +Very weak het here 1210 11/21, assume nothing else had changed yet. (Brown, MI)
- 864 SOUTH KOREA, Gangneung, HLKR, KBS, heard as a carrier 1105 11/23 and 1317 11/26. Then it was in w/KBS pips 1200 11/27. Note that pips are sufficient ID on this one since the Japan stations here are all private and do not use the NEK pips. (Peterson, CA)  
+Poor w/bits of audio to 1300 12/16, then...-pips and female in KK. (Portzer, WA)
- 864 t NEW ZEALAND, Invercargill, 4ZA, poor signal 11/25 and 30. (Gradin, OR)  
+0935 2/12, fair signal w/rock mx. (Peterson, CA)  
t +1201 4/04, suspect this one, loops New Zealand, in poor-fair w/MoR mx. (Korinek, WA)  
+0925 4/11, weak w/pop mx //1008. (Tomer, CA)  
t +1150-1202 4/30, fair carrier looping DU. Male talk barely audible, possibly mentioned New Zealand but too murky to tell for sure. Next time. (Hall-Patch, BC)
- 864 PAPUA NEW GUINEA, Madang, first suspected w/anthem at 1400 s/off 4/03, then nailed during good fade up 1330-1335 4/05. Has pop mx and EE announcer, same broadcast as the easily heard National program on 4890 khz. Signal generally poor both mornings, but with only 2kw, travelling 6,000 miles. I rate this a thrilling catch. (Tomer, CA)
- 864 ? UNLD, strong het briefly 1212 11/24. (Brown, MI)  
+Weak carrier looping NW 0951 11/27. (Everitt, CA)  
+(2), 1030-1100 1/09, both w/pop mx, one was undoubtedly 4ZA. At 1100 only one station was heard w/6 pips and "ABC National News" ID. Can find no ABC

- station for 864 listed. (Tomer, CA)  
 +1247 1/15, carrier/weak signal loops DU. (Peterson, CA)  
 +1105 2/04, JJ station w/JJ talk, 2 non-NHK's are listed. (Tomer, CA)  
 +0959 4/09, rock mx looping DU, not // Papua on short wave, 7HO, 4GR, Cook  
 Islands possible. (Portzer, WA)
- 870 HAWAII, Honolulu, KAIM, male reading sports and wx 0933 10/02, then ID  
 "...for KAIM and KAIM-FM". Fair in WWL null. (Hall-Patch, BC)
- 873 t AUSTRALIA, Sydney, 2GB, 1113 1/09, fair w/end of pop song, DJ patter, tele-  
 phone conversation w/female faded. (Tomer, CA)  
 t +1235 2/02, likely to be the weak signal looping DU. (Peterson, CA)  
 +1200 4/04, surely the one w/6 pips across hour and into nx by male.  
 (Korinek, WA)  
 +1318 4/06, assumed the source of "Tele-talk" show. (Tomer, CA)  
 +1226 4/09, fantastic signal w/their usual "Tele-talk" show. ID, promo and  
 pips at 1300. This station has become a regular during good DU conditions.  
 (Tomer, CA)
- 873 JAPAN, Kumamoto, JOGB, noted w/NHK-2 program 11/23 1057 poor, 11/24 1052, het  
 on it maybe Wonsan. (Seaver, CA)  
 +1109 11/23 appeared as a carrier (PFM 873000 Hz). JJ talk 1157, then dropped  
 out 1200, of course, then back w/alternating CC and JJ (lessons) 1420. Back  
 again 11/25 1319 w/talk in JJ. (Peterson, CA)  
 +NHK pips on hour; good-poor 1200 11/25. (Gradin, OR)  
 t +Likely source of weak carrier hetting 870 1216 11/26. (Everitt, CA)  
 +Presumed during good Japanese conditions w/good carrier, snatches of audio in  
 slop 1220 12/01; 1100 12/03 w/schmaltzy MoR 1059, some muffled talk (may have  
 been call) then very good ...-pips, "This is NHK" in EE, EE and JJ talk by  
 man, into odd violin mx, 1103 more JJ talk, into classical string-quartet mx.  
 (Everitt, CA)  
 +//747 w/male and female talk fair-poor 1039 12/04. (Portzer, WA)  
 +1500 12/09, music box s/off, common to NHK stations. Weak. (Hall-Patch, BC)  
 +12/10 1142 male and female //774. (Bytheway, WA)  
 +1329-1424 2/04, excellent w/female in JJ. Male talk at 1404, slopped over  
 onto 870 at 1424. (Korinek, WA)  
 +1110 2/26, weak w/JJ talk. (Tomer, CA)  
 +3/05, male w/JJ talk, good signal. (Williams, OR)
- 873 ? UNID, 1010 4/02, noted weak-fair w/mx, possibly 2GB? (Korinek, WA)
- 873.4 NORTH KOREA, Wonsan(?) very strong 1223 9/11 w/usual orchestra, singing, and  
 KK dialogue. Program was very similar to that on 655, but not //.  
 (Tomer, CA)  
 +Very good w/man and woman in KK 1053 9/21. (Various, OR)  
 t +1142-1229 10/22 strong het and carrier, no audio heard. (Korinek, WA)  
 t +Good carrier and what sounded like bits of choral mx 1150 10/22.  
 (Portzer, WA)  
 t +Strong carrier and bits of audio 10/23 1335. Soon faded as I rush off to get  
 ready for work. (Bytheway, WA)  
 +Blasting in 1050 11/06 w/singing, talk, etc. At 1300 the usual 4 pip time  
 signal but w/the last pip prolonged just slightly more than usual. Measured  
 at 873.440. (Peterson, CA) (See also 874 -ed)
- 873 NEW ZEALAND, Ashburton, 3ZE, 0835-40 4/11, great signal w/pop mx, ID's, sing-  
 ing ID's amazing signal for 1kw. (Tomer, CA)
- 873 ? UNID, strong carrier but no audio 1215 11/24. (Brown, MI)  
 +TP carrier w/WWL nulled, quite weak 11/23 1019. Not noticed next 3 nights.  
 (Martin, CO)  
 +1334 2/27, station carrier noted DU, 2GB? (Korinek, WA)
- 874 NORTH KOREA, Wonsan, surfaced here 11/06 1048 and 1120 w/typical program of  
 harangue and invective. Fair at best. Not heard since frequency change due  
 to JOGB-873. (Seaver, CA) (See also 873.4 -ed)
- 876 ? UNID, 1215 1/23, fair open carrier, loops 295° or so. Probably Korean, fin-  
 ally getting some northern paths after rotten conditions. (Korinek, WA)
- 882 AUSTRALIA, Brisbane, 4BH, beautiful mx loud 1150 11/23. (Taylor, Fiji)  
 +Looping very definitively in the DU direction was in 1032-1135 11/27.  
 Started out as a carrier looping south of the Unid below, then came up to

fair level at times w/easy listening mx like heard by Tomer last season. Talk was unclear but definitely EE. PFM was 881999 Hz. No pips were used that I could hear. (Peterson, CA)  
 +1104 1/01, in again, rather weak w/easy listening mx. (Peterson, CA)  
 +0942 1/05, w/easy listening mx. "4BH" ID. (Tomer, CA)  
 +1432 1/14, w/ID, easy listening mx. (Tomer, CA)  
 +1245 2/08, w/easy listening mx, looped Australian rather than New Zealand, good-fair for next ½ hour. (Bytheway, WA)  
 +1150 2/26, weak w/easy listening. (Tomer, CA)  
 +1110 3/29, female in accented EE. (Korinek, WA)  
 +1335 4/03, fair w/easy listening mx. (Tomer, CA)  
 +1201 4/04, male nx, into MoR mx. (Korinek, WA)

882 JAPAN, Shizuoka, JOPK, NHK-1, 1430 3/09, probably the one w/male in JJ. (Williams, OR)

882 NEW ZEALAND, Auckland, LYC, possibly the source of weak EE talk looping DU 0830 11/24. (Tomer, CA)  
 +Assumed to be the one w/light mx looping DU 1038 11/25. Might've been 4BH, though... (Portzer, WA)  
 +Carrier found 11/23, 25, 26. On 11/23 1005 w/Cuba nulled, there it was at a time when WCBS could not be detected. WCBS was back in 4 mins and a het appeared between it and 882. 11/26, same nulling, 0912, 882 was bouncing the needle around 5 when WCBS signal was bouncing around 7. Apparent w/off noted 40 seconds after 1000 11/26, 11 p.m. in New Zealand, and WCBS was not audible at the time. Het w/WCBS noted several times these 3 mornings. (Martin, CO)  
 +Fair-poor, announcement by male and organ mx 1025 11/26. (Gradin, OR)  
 t +Probable cause of heavy 880 het looping DU 1027 11/27; again 1007 11/28. A couple of Australians somewhat less likely. (Everitt, CA)  
 +1002 12/25, poor to fair in CJVI-900 splatter, operatic singing before 1000 then male talk, no pips, nx followed. //657. (Hall-Patch, BC)  
 +0840 1/09, w/classical concert program. (Tomer, CA)  
 +0847 1/05, w/quiet piano mx // to and weaker than 2YC-657. (Tomer, CA)  
 +1052 1/11, //657, flute concerto. Severe fading on both but this one clear (Bytheway, WA)  
 +0910 1/17, fair w/classical mx. (Tomer, CA)  
 +1000-20 2/12, fighting 4BH for a while, ran "N-ZED"-BC nx to 1015", then dominant w/piano mx. (Peterson, CA)  
 +1140 3/05, //657, fair-good w/usual orchestral mx, summer time s/off usually 1100. (Hall-Patch, BC)  
 +0927-30 4/01, classical singing. (Williams, OR)  
 +0829 4/02, assumed the one w/weak male talk, this was apparently my UNID Asian of a couple of months ago...the het I heard looped perfectly for the null of KJR-950, their slop extends this far down and usually wipes out audio from this one except when the loop is pointed WNW-ESE. It's a good thing I live 8 miles from the KJR transmitter or I'd really have problems. (Portzer, WA)  
 +0655 4/12, weak w/quiet piano mx. (Tomer, CA)

882 ? UNID, carrier looping SE Asia 1425 11/24 and 1324 11/25. Malaysia possible but unlikely since it rarely caused a het on 885 before. (Peterson, CA)  
 +Weak carrier hetting 880, looping NW, 0947 11/27. (Everitt, CA)  
 +0927 1/14, het/carrier loops NE Asia. This is heard fairly regular even when other TP's are inaudible. No audio yet. Not 100% convinced it is even a TP - may be local origin. (Portzer, WA)  
 +1011 2/18, carrier loops NW/SE, bits of audio. (Portzer, WA)  
 +1342 2/27, noted female in EE but super weak, maybe either 4BH/LYC. (Korinek, WA)  
 +0951 5/28, DU carrier/het, likely LYC. (Portzer, WA)

890 ALASKA, Adak, AFRS, 1430 pop albums, 1st time in quite a while. (Williams, OR)

891 t AUSTRALIA, Adelaide, 5AN, ABC-1, 1230 1/15, seems most likely prospect was in EE w/nx after the ½ hour, weak and barely readable, have been wanting to verify this for a long time. (Peterson, CA)  
 +1240 1/25, weak w/quiet mx. (Tomer, CA)  
 +1112 2/26, weak/fair w/jazz. (Tomer, CA)  
 +1335 4/03, good signal w/jazz piano, this and 882 are good bets for Australia. (Tomer, CA)  
 +1212 4/04, fair w/male EE talk. (Korinek, WA)

- 891 JAPAN, Sendai, JOHK, NHK-1, HLKB faded down into the mud by 1500 11/24, leaving JOHK alone for the NHK pips and s/off after which the S. Korean was again audible barely. (Peterson, CA)
- +Hetting 890 w/good signal 1607 11/25. (Gradin, OR)
- +Very good w/very clear "JOHK", ...-pips 1200 12/03, then into JJ mx; approximately 3 Hz SAH from station on similar bearing (quite possibly HLKB). (Everitt, CA)
- +1100 12/16, w/NHK time pips and JJ talk too much 890 for good copy. (Harms, UT)
- +JJ talk poor in het. //837, 1249 12/16. (Portzer, WA)
- +0808 1/28, good o/Fiji, w/JJ play. (Tomer, CA)
- +// to 882 3/09 at 1430. (Williams, OR)
- 891 FIJI, Lautoka, FBC, fair w/non-EE program 0635 7/10. (Tomer, CA) (They're in Hindi whenever I hear them.-bp)
- a +Good around 0940 9/21 w/Hindi talk and mx. Booming in w/EE commentary program on various nx stories, i.e. the Camp David Summit 0725 9/21. (Portzer/Block/Aden, OR)
- t +Heavy het on WLS-890, often o/it, occasional snatches of pop-like mx looping S. Pacific/DU 1023 11/28; again 1004 11/29, same situation. Probably this, but could conceivably be 5AN-Adelaide. (Everitt, CA)
- +12/02 0953-1003. Female Hindi vocals across the hour. Announcement 1003 by male.. signal dropped way down. (Williams, OR)
- +0810 1/05, w/Hindi talk, also 0904 1/06, w/Hindi pop mx, Hindi female announcer, phenomenal ultra-loud. (Tomer, CA)
- +0915 1/10, w/Hindi program, then "This is Radio Fiji", by Hindi-accented EE. (Tomer, CA)
- t +0949 1/13, strong carrier some xylophone mx noted. (Harms, UT)
- +0750 1/28, excellent w/EE program, said to be on "Sundays at 7:30". "Radio Fiji One" ID at 0955. (Tomer, CA)
- +0755 2/22, excellent signal w/EE talk. (Tomer, CA)
- +0813 3/11, male in Hindi, sounded like news; then string type mx. (Williams, OR)
- +1108 3/29, fair w/apparent national anthem and s/off. (Korinek, WA)
- +0832 4/02, EE announcer male then male/female in either Hindi/Fijian. (Williams, OR)
- +0623 4/10, fair w/Hindi singing. (Tomer, CA) (See also 892 -ed)
- 891 SOUTH KOREA, Pusan, HLKB, heard in KK mixing w/the JJ 1435 11/24. The difference between KK and JJ becomes quite apparent when you hear them like this! I recommend to the beginning TP DXer that he learn what JJ sounds like for sure on a Japan-only frequency and then tune 891 for the comparison to KK side-by-side. (Peterson, CA)
- 891 ? UNID, fair carrier w/strong het noted 1130 7/21. Fiji supposed to be off at 1100 so maybe someone else on this channel now. (Tomer, CA) (Fiji seems to leave its carrier on long after s/off for some reason.-bp)
- +Carrier 0927 11/23. (Korinek, WA)
- +Carrier hetting WLS, looping NW, 1216 11/26; 1137 11/27 good sized signal w/ some snatches of unidentifiable speech; probably either Japan or Korea. (Everitt, CA)
- 892 FIJI, Lautoka, FBC, 8/06 0842 poor w/Hindi chanting. (Bixby, CA) (See also 891 -ed)
- 918 ? UNID, weak carriers from at least 2 stations 1220 11/26. Looped NW. (Everitt, CA)
- 927 ? UNID, carrier 1156 12/04 fighting KNEW-910 slop. (Peterson, CA)
- +TP 1243 1/15, w/very weak talk and mx, too weak to ID language. (Tomer, CA)
- 936 ? UNID, carrier heard 1143 11/27. (Peterson, CA)
- 940 CHINA, Hefei, 1700 11/14 in CC. (McGonagle, Ireland) (Station has since moved to 936 -ed)
- 945 JAPAN, NHK-1 synchros, in w/usual pips 1200 12/04. Fairly weak but would have been impossible w/out split frequency. (Peterson, CA)
- +1355 4/05, weak w/JJ talk and mx. (Tomer, CA)
- 945 ? UNID, carrier looping central Asia 1440 11/24 and 1145 11/27. China? (Peterson, CA)

- 954 t JAPAN, Tokyo, JOKR, poor 1615 11/25. (Gradin, OR)  
 +JJ commercial noted 11/27 1058 fair. (Seaver, CA)  
 t +Suspected w/JJ McR vocal and good signal in much slop 1107 12/03.  
 (Everitt, CA)  
 +Weak JJ voice 1052 12/18. (Peterson, CA)  
 +0745 1/28, assumed the source of veal JJ talk. (Tomer, CA)  
 1155 2/26, fair signal w/classical mx, JJ announcer. (Tomer, CA)  
 +1358 4/05, fair w/JJ commercial. (Tomer, CA)
- 954 ? UNID, carrier 1204 12/04 w/local KABL-960 looped. JOKR? (Peterson, CA)
- 963 ? UNID, weak carrier, seemed to loop DU 1042 11/23. (Korinek, WA)  
 +Weak carrier looping NW 1043 11/27. (Everitt, CA)  
 +Carrier in 1207 12/04 w/KABL looped. Likely NHK or KRS. (Peterson, CA)  
 +0930 4/11, had 3 and 1 pips; nothing else heard. (Tomer, CA)
- 972 ? UNID, carrier 1343 11/25 w/heavy slop from KABL-960 and KKIS-990 (so looping not possible). (Peterson, CA)
- 981 ? UNID, carrier 1356 12/06 unable to loop. (Peterson, CA)
- 990 HAWAII, Honolulu, KHVH. 7/30 1235½ ending tape delayed NBC nx of telephone-line quality, then instrumental nx jingle (not the old NIS jingle but similar to it). Hawaiian Standard Time time check and "more KHVH nx". Average signal w/KKIS off for weekly Sunday morning SP. Looks like KHVH's former Sunday morning SP is down the tube now since this was 2:35 am. (Hardy, WA) (When I was in Honolulu in May, KHVH was off MM 5/22-bp)  
 +0859 2/05, good w/CBS nx promo, then ID. (Tomer, CA)
- 1008 JAPAN, Osaka, JONR, Asahi Hoso, first heard as weak audio 1345 12/03, then in much better w/pop JJ songs and decent signal 1215 12/04. And at 1300 the usual single time tone on the hour. This station is special since it was my first from Japan way back when. (Peterson, CA)  
 t +JJ talk, poor 1357 12/03. (Gradin, OR)  
 +1105 2/26, mixing w/12K, w/JJ talk. (Tomer, CA)
- 1008 NEW ZEALAND, Tauranga, 1ZD, noted 11/25 1212 w/weak EE looping DU. Slop de KXEG. (Seaver, CA)  
 +Nil-fair w/pop songs 1250 11/25. Then reasonable ID by //1035 and 1044 w/pops and EE talk 1012 12/02. A bit of a SAH as well. (Hall-Patch, BC)  
 t +Likely the heavy het on 1010 looping DU 1025 11/29, although a couple of Australians are also possible. (Everitt, CA)  
 t +Male and into light mx 1107 12/04. (Gradin, OR)  
 +Pop mx //1035 1052 12/25. (Portzer, WA)  
 +1110 1/01, assumed to be the DU signal quite weak. (Peterson, CA)  
 +0825 1/05, w/Olivia Newton-John song // to 2ZB-1035. (Tomer, CA)  
 +0853 1/11, fine signal w/pop mx, DJ patter, most consistent DU here lately. (Tomer, CA)  
 +1103 2/12, good carrier loops New Zealand w/frequent nx or similar program. //1035 into wx at 1106. KOMO-1000 off, but some 1010 slop. (Bytheway, WA)  
 +1102 2/26, good signal w/Radio New Zealand nx. (Tomer, CA)  
 +1113 3/05, assumed the piano mx loops DU. (Portzer, WA)  
 +1013-1130 4/02, fair-good w/male in accented EE talk, nx at 1102. (Korinek, WA)  
 +1130-1300 4/02, pop mx, good-nil various times. Audible even w/KOMO test tone. (Portzer, WA)  
 +0939-1012 4/03, rock and pop mx. Time check at 1000 then nx, wx report at 1003. (Williams, OR)  
 +0954 4/09, fair-good w/mx. (Portzer, WA)  
 +0725 4/11, great signal w/rock song. (Tomer, CA)
- 1008 ? UNID, something TP is here. Noted as a carrier 11/23, 24 and 25 as early as 0934 to as late as 1050. Strong enough at times to het 1010. (Martin, CO)  
 +1044 11/23 fair carrier, possibly New Zealand per direction. (Hall-Patch, BC)
- 1010 VIETNAM, Hanot, 2315 11/15, Vietnamese talk fair. (McConagle, Ireland)
- 1017 JAPAN, Fukuoka, JOLB, NHK-2, tremendous signal at times but subject to deep fades, EE lessons //774 1137 12/16. (Portzer, WA)  
 +Good w/JJ 1355 12/03. Also good 0910 11/26. (Gradin, OR)
- 1017 t TONGA, Nuku'alofa, A3Z, Polynesian sounding multi-vocal mx and female talking in strange language. Listened past 0900 11/27, but no ID. Poor-good then.

- Good 1000 w/female talk (not EE), then vocal hymn, which is not Tonga national anthem according to "National Anthems of the World". Next time.  
(Hall-Patch, BC)
- t +Up for pips, into possible ABC mx, local EE mx about 0710 and vernacular by 0715. Subsequent receptions indicated a slightly varying EE program length. Chimes between mx items did seem to be the order, however. 0700-0720 11/29. (Newell, BC)
- +All by itself 0909-15 12/04, EE songs (some rock) and vernacular announcements. Almost as easy as shooting fish in a barrel! Wow, do I love these new allocations! (Peterson, CA)
- +12/04 0912 w/Polynesian mx and female in accented EE, then light mx. 0933 female in vernacular. (Bytheway, WA)
- +0806-1000 12/07 w/mixture of Polynesian, cw, and rock mx (including a recent Rod Stewart song). Announcements by female in EE or vernacular between songs. At about 0953 had man w/brief talk, then female returned for about 3-4 mins, then choral anthem of sorts and off, corresponding to listed 1000 s/off time. Good signal much of the time but had frequent deep fades. (Portzer, WA)
- t +0958 12/11, has to be the one w/female possibly EE, then unid language, audio too murky for intelligibility. Flute notes at 0959 were probably the "Tongan nose flute", is mentioned in WRTH, but obliterated by splatter from KDKA-1020 s/on. (Hall-Patch, BC)
- t +Probable w/female in unid language looping DU 0956 12/23. (Korinek, WA)
- +0840 1/05, excellent signal w/easy listening mx, also good 0727 1/06, w/native female talk. (Tomer, CA)
- +0915 1/09, w/Aussie program to 0938, then native program. (Tomer, CA)
- t +0930-1002 1/10, assumed the one w/female in vernacular. Vocal mx also. Also 0916 1/14, fair-good w/female talk. (Korinek, WA)
- +0700 2/22, noted 4 pips and "Radio Australia" (not ABC) mx, poor-fair. Female w/local mx at 0715, and wx at 0718 for "? and Tonga" in EE and language. PPM of 1017.024 + 2Hz at 0825. (Hall-Patch, BC)
- +0715 2/28, strong carrier audio weak w/native talk. (Tomer, CA)
- +0904; 1002-07 3/26, in fair w/male in vernacular and mx. Noted apparent ABC mx at 1002 and wx at 1005. Transmitter off at 1006. (Korinek, WA)
- +0846 4/02, Island type mx. (Williams, OR)
- +0853 4/02, likely the slow folksy vocal mx looping DU. (Portzer, WA)
- +0942 4/09, assumed w/male vocal w/guitar-like accompaniment. (Portzer, WA)
- 1017 ? UNID, 1046 11/23 very poor carrier looping DU. Weak carrier 1240 11/24. (Hall-Patch, BC)
- +Weak carrier looping NW 1055 11/27. Possibly China. (Everitt, CA)
- +Carrier 1352 11/28, looping DU. Too late for Tonga; could be an Aussie. (Peterson, CA)
- +Het looping to NE Asia 1042 12/04. (Portzer, WA)
- +Good signal w/non-JJ-sounding oriental talk by man w/occasional interjected woman o/u and w/jammer on same frequency 1137 12/03 looping NW. (Everitt, CA)
- 1026 AUSTRALIA, Mackay, 4MK, 11/26 1138 w/what sounded like a spot for a place in Rockhampton. Back 1140 w/time check as "9:40 at 'MK", then into rock mx. Noted w/several songs, GMT+10 TC's, and spots during the next few minutes. (Bytheway, WA)
- t +0932 1/09, weak signal w/DU accented EE talk and pop mx, possible "4MK" ID at 0932; not positive. (Tomer, CA)
- +1202-20 1/15, 4MK surely must be the DU w/rock mx, based on Hall-Patch's reception. (Peterson, CA)
- +1402 2/27, everything points to 4MK, as I caught last half of s/off announcement. (Korinek, WA)
- +0752 4/02, briefly o/VQO w/temperature in Mackay given after a rock song. (Tomer, CA)
- 1026 NEW ZEALAND, Whangarei/Kaitiaki, LZN/LZK, 1045 2/12, was in very weak w/out a clue as to ID. Then tuned 2ZB-1035 and found this to be //. One of my best DU catches. (Peterson, CA)
- 1026 t SOLOMON ISLANDS, Honaira, VQO, Polynesian and pop mx poor-fair. Man talking in EE, but nearly unreadable 0910 11/27. Heard mention of "...past 8 o'clock which would be Solomons time. Two stations by 1014 11/25, both apparently in EE so confusion. (Hall-Patch, BC)
- +Heard w/mx 0916, male talk 0917, into easy listening version of "Red Roses for a Blue Lady", Anne Murray song 0920. By 0930 another station was interfering with them. 0939 man in EE w/weird accent, 0949 choral chanting //5025

- kHz SW. By 1000 apparent Aussie was atop channel w/6 pips. (Bytheway, WA)  
 +Male talk etc, noted various times 0930-1000 12/04. I spent most of my time on 1017 while Phil sat here; we kept swapping comments by phone. (Portzer, WA)
- t +Listened in 0918-1002 12/04 w/FRG-7 RF gain wide open, the channel was so quiet. Audio was fair-poor and voice not readable. Started getting more signals as time went on, likely Aussie /New Zealand/Pacific Islands type. Best bet for this is 0800-0900 to avoid interference. (Peterson, CA)
- +1002 1/05, loud w/native mx //5020 SW. (Tomer, CA)  
 +0825 1/12, weak in pidgin EE during brief f/up. //5020. (Tomer, CA)  
 +0912 2/05, weak w/old cowboy songs and native announcer. (Tomer, CA)  
 +0805 2/26, ultraloud, totally dominating signal w/native male talk, regional wx in EE/pidgin at 0855. (Tomer, CA)  
 +0826 2/26, poor-fair w/male and female talk in vernacular, then some Polynesian vocal mx. ID'ed by SW //5020, by 0845 another signal was present, putting 4 hz SAH on it. (Hall-Patch, BC)  
 +0750 4/02, great signal w/local EE mx at 0750, commercial spot 0753, EE pop song follows. (Tomer, CA)  
 +1033 4/02, fair-good w/female in vernacular and Polynesian mx. (Korinek, WA)  
 +0923-33 4/03, male in EE w/variety of mx. Possibly another station on frequency, loops DU. (Williams, OR)  
 +1047 4/04, blasting in as usual w/Polynesian mx and female in vernacular. (Korinek, WA)
- 1026 ? UNID, carrier looping SE Asia 1438 11/23 and 1427 11/23. (Peterson, CA)  
 +Extremely weak DU carrier 1004 11/25. (Portzer, WA)  
 + "This is Radio Happy Hour" in accented EE after apparent sopt 1020 11/27. Time given as "...minutes past 9 o'clock" which again points to Solomons, though 3DB-Melbourne would also be GMT+11(summer time). Two stations in EE on this frequency from about 1014, one w/light pop mx and country, the other w/more Polynesian mx. Nx 1200 but no ID, mention of Queensland, so maybe 4MK in Mackay?? (Hall-Patch, BC)  
 +0928-33 1/05, DU, weak EE pops, DU accented EE announcer not Solomons as they had native program at this time. (Tomer, CA)  
 +1140 4/02, rapid SAH from 2 stations too late for VQO, so probably Aussie(s) or New Zealand. (Portzer, WA)
- 1035 CHINA, location unknown, 1112-1200 1/22, female in CC, some mx at 1200, 5 long pips, into mx and male/female talk, frequency fading - gone for 2-3 minutes at a time. (Bytheway, WA)  
 +1220-1300 1/22, male/female in CC. "Internationale", 1230-female w/announcement and "Zhangyang Renmin Guangpo Dientai", fanfare into drama, still here 1300. Was //6750, 6665. Strongest of half dozen TP's at time. (Portzer, WA)
- 1035 JAPAN, NHK-2 synchros, in w/NHK pips 1300 12/02. (Peterson, CA)
- 1035 NEW ZEALAND, Wellington, 2ZB, pop mx //1008 1035-1102 12/25, good on peaks but fadey. (Portzer, WA)  
 +0926 12/02, fair carrier looping DU. Then country mx faded up 0932. IDed by //4ZB-1044 0936, at which time this was stronger. Sounded like horseracing 0939. (Hall-Patch, BC)  
 +0831 1/05, w/pop mx, weak w/nx 0805 1/06. (Tomer, CA)  
 +0911 1/09, fair w/pop mx. //1008. (Tomer, CA)  
 +0950-1000 1/29, w/good signal looping New Zealand accented EE. Soft rock mx took calls from listeners, static made it difficult. (Peterson, CA)  
 +0950 1/29, poor-fair w/US rock and roll mx. nx at 1000 //4ZB. (Bixby, CA)  
 +1055-1100 2/12, excellent at times. (Peterson, CA)  
 +1103 2/12, fair carrier //1008 but 1008 much better, this one w/severe fades (Bytheway, WA)  
 +0755 2/22, fair w/pop mx. (Tomer, CA)  
 +1139 3/05, likely the one w/brief but strong signal w/Rolling Stones. (Portzer, WA)  
 +1008 3/18, good w/male in EE. (Portzer, WA)  
 +0819 4/02, phone show w/possible vacation trip as prize, spot for travel agents. (Williams, OR)  
 +1110 4/02, in fair w/male in EE and country mx. (Korinek, WA)  
 +0855, 1200 4/02, good-poor w/pop mx, no pips heard at 1200. (Portzer, WA)  
 +1043 4/09, good w/comedy, //1044. (Portzer, WA)  
 +0723 4/11, same program as 1008. (Tomer, CA)
- 1035 ? UNID, carrier looping central Asia 1432 11/23 and 1447 11/24. (Peterson, CA)

- +Good carrier w/EE (female) talk looping DU 1005 11/25. (Portzer, WA)  
 +Weak audio 1221 11/25. 2ZB? (Gradin, OR)  
 +Weak carrier looping NW 1045 11/27. (Everitt, CA)  
 +Someone in w/good-nil signal 1118-1150 12/02 w/accented EE male announcer and pop mx (Lightfoot, BeeGees, etc.). Probably New Zealand. (Portzer, WA)  
 +1509 1/13, tentatively Australia, EE Aussie accented announcer, sudden fade to barely audible. (Williams, OR)
- 1040 HAWAII, Honolulu, KPOI, rock very good 1145 11/23. (Taylor, Fiji)  
 +Head w/fair-good signal w/album cuts 8/13 0950-1003. ID 1003 after mx. (Harms/Portzer/Bennett, OR) (Yes folks, someone actually admits to having DXed at the convention! -bp)  
 +Finally decided to send a report 0647-0702 10/02. Had usual album rock to 0700, then program called "Inner Views". Strong w/no sign of WHO. KGU, KORL, and KIKI also in well at the time. (Portzer, WA)  
 • \*\* +12/10 1250 rock or Top-40 mx. Female announcer, numerous mentions of "K-poi" between songs. Nx or sports (I couldn't tell which due to fading), mentions of Oahu and University of Hawaii. 1313 WHO switched on carrier, KPOI mx faded up at times to be easily heard thru WHO open carrier. Listened until 1343 at which time I lost signal, about 40 minutes after first daylight. (LaFreniere, MN) (Good catch! Yours is the most easterly reception of them that I know of. -bp)  
 +1024 1/28, fair-good w/a pre-recorded oldies program. (Korinek, WA)  
 +1111 3/05, good w/rock mx. (Portzer, WA)
- 1044 CHINA, Shanghai, noted w/JJ Foreign Service program 11/25 1154 only fair. (Seaver, CA)  
 +Good w/man singing oriental song a'capella, followed by female vocal w/ plucked instrument then echoed CC or JJ talk 1204 11/26. (Everitt, CA)  
 +1332 11/30, good w/CC or similar non-JJ talk; 1038 12/02 good w/CC or similar talk by male 1122 12/03 very good w/soft oriental mx, w/what sounded like an oboe as the predominant instrument and CC or similar talk by man. (Everitt, CA)  
 +Female in JJ, then CC mx. Rather poor signal and slop from 1040 12/01 1448. (Williams, OR)  
 +Finally in well enough to ID 1255 12/02 w/talk in JJ. Also in fair 1237 12/04. (Peterson, CA)  
 +Poor w/female talk in oriental language 1134 12/16 w/interference from local raspy-sounding spurious emission. (Portzer, WA)  
 +Carrier only 1135 12/18. (Taylor, CA)  
 +1252 1/22, JJ talk, fair. (Portzer, WA)  
 +JJ Foreign Service good w/female talk 1251 2/18. Note that this and most other Chinese Medium wave outlets are not listed in the China section of WRTH. (Portzer, WA)
- 1044 NEW ZEALAND, Dunedin, 4ZB, tentatively w/faint audio 1255 11/25, pop songs. Fair down to carrier and back again 0930 12/02 w/pop and country, male in accented EE. //1035. (Hall-Patch, BC)  
 +0842 1/05, weak w/race results //1008, 1035. First time heard in 3 years, thanks to frequency change. (Tomer, CA)  
 +0855 4/02, male talk and Bee Gees record. //2ZB-1035 good carrier, fair audio on peaks. Fading patterns on this station were independent of those on 1035. No pips heard 0900. (Portzer, WA)  
 +1148 4/02, in fair w/country rock mx, possible //1035, 1008. (Korinek, WA)  
 +1027 4/03, rock/pop format to local news and fade out. (Williams, OR)  
 +1142 4/09, mellow rock mx, apparently //1008. (Korinek, WA)  
 +1041 4/09, just a DU carrier but faded up to fair audio 1045 w/comedy routine. //1008. (Hall-Patch, BC)
- 1044 ? UNID, carrier looping central Asia 1137 11/23 and 1150 11/27. Probably Shanghai. (Peterson, CA)  
 +1048 11/23 good carrier, but poor carrier 1221 11/24. (Hall-Patch, BC)  
 +Someone playing "Let Me Be There" by Olivia Newton-John 1205 11/25. Didn't appear to be a spur from a local. Had to loop local FM-ish carrier on 1043-44 so couldn't get bearing; probably a DU. (Portzer, WA)  
 +1155-1200 1/15, carrier DU under auroral conditions knocked China out cold. 4ZB most likely candidate. (Peterson, CA)  
 +1005 1/29, loops New Zealand probably 4ZB. (Peterson, CA)
- 1052 NORTH KOREA, Haeju, Voice of the Revolutionary Party for Reunification a clandestine station, now here ex 1135. The station broadcasts 1000-1400 in KK and 1400-1430 in EE; also 2000-2230 in KK and 2230-2300 in EE. (SCDX 1/30)

- 1053 va CHINA, location unknown, noted w/monster signal, intensely overmodulated w/ military speech in CC or similar, much applause, drifting erratically over approx 3 kHz range, murdering 1050 w/variable pitched het 1047 11/27. (Everitt, CA)  
 +At 1111 12/03, good w/CC opera-style stuff w/slight SAH; by 1125 station w/ MoR pops w/dominant electric bass/drums was on top, this 2nd station presumed to be JOAB-Nagoya. O/u each other for quite a merry little spell. No //1125 noted. (Incidentally, no drift or modulation trouble noted this time). (Everitt, CA)  
 +Emphatic male and female talk in CC 1142 12/16 w/fair signal. (Portzer, WA)
- 1053 JAPAN, Nagoya, JOAR, JJ commercial noted fair 11/25 1214. (Seaver, CA)  
 +Fair-poor w/JJ 1230 11/25 and 30. (Gradin, OR)  
 +In w/faint voice 1320 12/02 and in well 1340 12/03 in JJ. (Peterson, CA)  
 +1235 2/26, good signal w/JJ MoR vocals and talk. (Tomer, CA)  
 t +1240 3/25, w/female JJ vocal. (Pejza, CA)  
 +1343 4/04, weak w/JJ talk, then pop instrumental. (Tomer, CA)  
 +1153 4/06, fair w/2 male talk in JJ. (Tomer, CA)
- 1053 MEXICO, Rosarito, B.C., XEPRS, spurious emission IDed here 1035 12/18. Checked other side of 1090 (1127.-bp) but nothing heard. (Taylor, CA)
- 1053 t NEW ZEALAND, New Plymouth, Z2P, 1114 4/02, probably the one in fair w/country mx. Won't swear to the country mx though. (Korinek, WA)
- 1053 ? UNID, carrier looping N. of where Indonesia looped before the big shift 1208 11/23. (Peterson, CA)  
 +1252 2/18, good carrier little audio not noted earlier. (Portzer, WA)  
 +1128 4/02, carrier/audio looping DU, quickly buried in CFCN-1060 slop. (Portzer, WA)  
 +0908 4/11, maybe Z2P but JOAR also likely, vocal mx noted. (Tomer, CA)
- 1062 WEST SAMOA, Apia, 2AP, here w/EE discussion 0635 11/25, ex-1050 fair. (Taylor, Fiji)
- 1062 ? UNID, weak carrier looping NW 1135 11/26. (Everitt, CA)  
 +Carrier 1239 12/04 looping S. Asia. (Peterson, CA)
- 1071 AUSTRALIA, Maryborough, 3CV, even w/KNX 1104 11/23. Good luck w/KNX het! (Taylor, Fiji)
- 1098 MARSHALL ISLANDS, Majuro, WSZO, 1100-30 1/15, mostly country western, some pop and native mx. Announcements in EE and local dialect at 1130 "This is Radio Marshall, WSZO, 1098 on your dial", polynesian accented EE male. (Tomer, CA)  
 +0830 1/16, assumed the source of Polynesian sounding program, weak. (Tomer, CA)  
 ? +1140 2/12, had to be the one here w/KFAX-1100 nulled. Bits of mx loops 260°, barely audible level, tuned out for a few minutes and returned 1157 when they had made in language at good level. Played chimes at 1158 and then cut carrier which matches listed s/off of 1200. Next week I'll have to try for definite ID. (Portzer, WA)  
 +0820 2/22, weak w/native program. (Tomer, CA)  
 t +1058 3/05, likely the strong het against KFAX-1100. (Portzer, WA)  
 t +1127 5/28, probably the instrumental mx in KFAX null. (Portzer, WA)
- 1098 t NEW ZEALAND, Christchurch, 3ZB, most probable cause of het looping DU, although again Aussies a possibility 1032 11/29. (Everitt, CA)
- 1098 PHILIPPINES, Mandaluyong, DWAD, 1030 1/15, the prize of the morning found KFAX-1100 off for first time in ages, good signal just out of reach of XEPRS, looping DU at above time clear DWAD ID in EE and Tagalog after easy listening version of "Love Me Tender". (Peterson, CA)
- 1098 ? UNID, 0950 1/15, w/non EE announcement after foreign song similar to what is heard on VSZ1-846 A3Z-1017, etc. Can't say for sure if this is the same as above, no ID. Got me to thinking that it could be Marshalls because of mx. Am asking DWAD in my report to listen to tape. (Peterson, CA)  
 +0943 1/29, carrier seems to loops TP. No audio possible, w/KFAX-1100 and CFAK-1070 splatter. Randy Tomer reports Marshalls, maybe someday. (Hall-Patch, BC)

- +1205 2/12, weak het loops 300°, possibly DWAD. (Portzer, WA)  
 +0758 2/22, just carriers here w/a fast SAH between them, WSZO and 3ZB?  
 (Hall-Patch, BC)  
 +1028 4/02, carrier and searing het but too much 1100 slop, loops DU.  
 (Korinek, WA)  
 +1202 4/02, bet on KFAK-1100 time and loop bearing favor New Zealand over  
 WSZO. (Portzer, WA)  
 +1030 4/03, fair het loops DU, could not pull any audio, I know what I would  
 like it to be. (Williams, OR)
- 1107 ? UNID, weak carrier looping NW 1133 11/27. (Everitt, CA)  
 +Carrier in 1346 12/01 looping S. Asia. (Peterson, CA)  
 +1143 3/05, too weak to get loop bearing on het and carrier, probably DU.  
 (Portzer, WA)
- 1110 HAWAII, Kihel, CP for station here with 5/5kw. (Arctic 3/23)
- 1116 ? UNID, carrier looping central Asia 1452 11/24. (Peterson, CA)  
 + Carrier 0937 11/27, then traces of audio (soft rock) looping DU. Samoa???  
 (Hall-Patch, BC)  
 +1235 1/22, carrier loops 325°, no audio heard, likely Chinese outlet.  
 (Portzer, WA)
- 1120 AMERICAN SAMOA, Pago Pago, WVUV, semi-local in Fiji. Apparently no frequen-  
 cy change 11/23. (Taylor, Fiji)
- 1125 va CHINA, location unknown, another enormous signal //1053 w/military speech,  
 this one also badly overmodulated and drifting approximately 1124-1128 1052  
 11/27. (Everitt, CA)
- 1125 JAPAN, NHK-2 synchros, in w/pips 1400 12/01. (Peterson, CA)
- 1125 UNID, Costa Rica runs open carrier all night here, but believe there is a TP  
 here too, which could be American Samoa, although there is no information on  
 WVUV frequency selection. This second carrier is found when Latin America is  
 nulled and was very near to breaking into audio after 1100 11/24.  
 (Martin, CO) (WVUV was noted still on 1120 by Pete Taylor during his Fijian  
 honeymoon 11/24. See above-bp)  
 +Carrier apparently looping SE Asia but hard to tell w/KPNW's interference.  
 (Peterson, CA)
- 1134 INDONESIA, Banjarmasin, RRI, assumed source of weak carrier 1245 9/09.  
 (Tomer, CA)
- 1134 t JAPAN, Tokyo, JOQR, fair w/JJ mx and female talk 1327 12/03. (Gradin, OR)  
 +Bunka Hoso, in w/JJ talk 1330 12/03. (Peterson, CA)  
 +1217 2/18, presumably the one w/male and female in JJ, good but had heavy  
 CKWX-1130 slop. (Portzer, WA)  
 +1240 2/26, w/2 men in JJ conversation. (Tomer, CA)  
 +1149 4/06, pop mx and chatter. (Tomer, CA)
- 1134 ? UNID, possible Indonesian carrier 1117 11/06. (Peterson, CA)  
 +Carrier looping N. Asia 1218-33 11/23 and 1215 11/27. Suspect JOQR the most  
 since this has overcome CKWX on good TP mornings when it was on 1130.  
 (Peterson, CA)  
 +Carrier only, looping NW, 1040 11/26, 0930 11/27. JOQP possible.  
 (Everitt, CA)
- 1143 JAPAN, Kyoto, JOBR, noted in JJ 11/24 1032, 1055. No audible ID 1100 11/25  
 weak. VOA-Phillippines is a good bet on this frequency at schedule 1300-1500.  
 Beware of this Jap commercial station, however. (Seaver, CA)  
 t +Male and mx 1330 fair-poor 12/03. (Gradin, OR)  
 +Good at times 0905-0910 12/18 w/upbeat songs in EE and JJ, and JJ female  
 announcer. (Peterson, CA)
- 1143 t PHILIPPINES, Poro, DWVA, VOA, possibly the one w/good signal in 1140 slop  
 during short KRAK silent period 1042 11/26. Very good w/female announcer in  
 undistinguishable language (audio somewhat muffled), into pop-style song in  
 oriental language 0932 11/27; KRAK-1140 open carrier on 0935 but het still  
 audible in null. I'm not sure of VOA's directional pattern but this seems  
 at least somewhat likely. (Everitt, CA) (At that hour, Japan was more  
 likely -bp)

- +Was in w/good voice in Vietnamese, I assume, and looping to Phillipines. (Peterson, CA)
- +Seems likely w/excellent signal in local KRAK-1140 sloop 1225 12/03. W/KRAK carefully nulled (not easy, due to phase-shifting in groundwave) good oriental talk and mx; as might be expected, went down into mud 1229, only to return w/even better signal 1235 w/female oriental talk and pop-sounding mx. Even if directional away from West Coast North America, seems as if some part of one million watts could make it. (Everitt, CA)
- 1143 ? UNID, carrier looping SE Asia 1221 and 1300 11/27. Lost in KRAK-1140 s/on, so no ID, but VOA is by far the most likely bet on this one. (Peterson, CA)
- +Carrier looping N. Asia 1257 11/27. Clearly separate from the other. Suspect JOER. (Peterson, CA)
- +1109 12/16, possibly Japan hetting u/KMJJ. (Harms, UT)
- +Man and woman in oriental language 1217-1225 12/16 w/local KAYO-1150 precariously nulled. Unfortunately, I breathed too hard on the loop and lost 'em, hi. Too early for VOA, per WRTH, so likely Japan. (Portzer, WA)
- +1218 2/18, Japan suspected, weird chants and oriental talk thru local KAYO-1150 sloop. Sounded similar to stuff heard on NHK-1 outlets, gone by 1229. (Portzer, WA)
- +1035 2/26, weak possibly JJ. (Tomer, CA)
- 1150 ALASKA, Long Island, KABN, listed as "not yet on the air" in NRC Log, may now be operational. 1979 Anchorage phone book lists them with business and 24-hour request numbers. Address given as Radio Road, Big Lake, AK. The station is located in the Matanuska Valley, just north of Anchorage. (Portzer, WA)
- 1152 AUSTRALIA, Wagga Wagga, 2WG 8:25p time check 1025 11/23. (Taylor, Fiji)
- 1152 ? UNID, carrier 1351 11/29, looping N. Asia. (Peterson, CA)
- 1161 ? UNID, carrier barely in 1447 12/03 u/KSL-1160 sloop that was earsplitting even when looped. (Peterson, CA)
- +1006 3/18, het on high side of KSL; no hope for audio. (Portzer, WA)
- 1179 t JAPAN, Osaka, JOOR, JJ talk and mx, hetting 1180, poor signal. (Gradin, OR)
- +Assumed w/JJ male and female talk 1145 12/16, then folksong w/guitar (or similar) accompaniment. More talk 1147. Good. (Portzer, WA)
- +1220 2/18, assumed the mx noted in passing. (Portzer, WA)
- +1225 2/26, very weak w/JJ talk. (Tomer, CA)
- +1148 4/06, weak w/female talk. (Tomer, CA)
- 1179 ? UNID, carrier looping N. Asia 1235 11/23 and 11/27. JOOR is the best bet here. (Peterson, CA)
- +Strong 1 kHz het against 1180, JOOR possible, 1228 11/26. (Everitt, OK)
- +1038 4/12, carrier and het looping DU, also other DU carriers noted on 1197, 1206. (Korinek, WA)
- 1188 JAPAN, Kitami, JOKP, NHK-1, carrier and audio, short musical interludes w/man in between in JJ 1217 12/10. Man and woman in JJ by 1233. (Bytheway, WA)
- +Very poor w/NHK pips 1300 12/17. Lots of interference from KEX-1190. (Peterson, CA)
- +1200 2/18, strong w/NHK pips at 1200 then into what sounded like mx in JJ. "America, Washington" mentioned in one item. (Portzer, WA)
- +1005 3/18, good w/man in JJ, w/KEX off. (Portzer, WA)
- 1188 ? UNID, carrier 1245 11/23. HLKX possible. (Peterson, CA)
- +Carrier only, looping NW 0905 11/27. (Everitt, CA)
- +1315 12/03 looping N. Asia w/faint voice but could not tell what language. JOKP? (Peterson, CA)
- +Definitely two stations here w/rapid SAH 1059-1200 2/18. One may have had EE at 1100 but bits of KK were noted later. JJ talk heard 1121, oriental talk mixing w/mx at 1125. One was apparently JOKP, the other was likely HLKX listed as having EE to 1100, then KK to 1230. (Portzer, WA)
- 1197 ? UNID, looping central Asia in as a carrier 1247 11/23 and in w/weak audio 1239 11/27. (Peterson, CA)
- +1310 12/03 w/fair signal but undermod voice that did not reveal language. Looped S. Asia. Several stations possible. (Peterson, CA)

- 1206 AUSTRALIA, Grafton, 2GF, 1002 4/09, good w/local advertisement. (Tomer, CA)
- 1206 CHINA, Kunming/Yanji, noted as a carrier 1250-1305 11/23. Then was in quite strong at 1244 w/usual singing. This has been the only China outlet to put audio into here after the shift. (Peterson, CA)  
 +In again 1325 12/09 w/good audio and non-martial mx. (Peterson, CA)  
 t +KK talk fair 1225 12/16, possibly ex-1210 which is listed as having KK 1000-1055, but not at this time. Couldn't find any of the listed SW //s. By 1322 the only thing here was an 800 Hz het. Wonder who's off frequency? (Portzer, WA)  
 +1029 2/18, fair-poor w/KK program. Female and mx. //6430, 8565. (Portzer, WA)  
 +1004 3/18, weak KK male talk. (Portzer, WA)
- 1206 INDONESIA, Denpasar, RRI, only making it as weal-fair carrier 9/08, 9/09, 9/10 around 1330. (Tomer, CA)
- 1206 UNID, the 1205 carrier from Cayman(?) had a companion about the same strength 1 kHz higher 11/25 during 5 minute period after 1103. (Martin, CO)  
 +0702 1/06, nice carrier, but no audio heard. Fiji? (Tomer, CA)  
 +1018 1/09, weak EE song, possibly Fiji or ZGP. (Tomer, CA)  
 +1133 1/15, several interesting low power DU's possible. (Peterson, CA)  
 +1240 1/22, carrier loops Asia, but too much CKDA-1220 slop to get audio. (Portzer, WA)  
 +1248 4/05, weal DU w/Anne Murray song. (Tomer, CA)
- 1210 AUSTRALIA, Grafton, 2GF, heard for first time w/weak pop mx, then wx 1340 9/08, followed by DU accented EE talk and spots. 2GF promo and ID 1348. Mixing w/a weaker station that classical or easy listening mx and seemingly DU accented EE talk, perhaps this could have been 4XO, Dunedin, or 2CC, Canberra? Anybody know their formats? (Tomer, CA) (This station has since moved to 1206 -ed)
- 1210 HAWAII, Honolulu, KZOO, fair w/JJ program 0655 7/10. (Tomer, CA)  
 +0700 1/06, w/JJ female then "K-Zoo", fanfare, legal ID. (Tomer, CA)  
 +0750 1/30, good w/up tempo JJ vocal. (Tomer, CA)  
 +0603 4/11, EE program old fashioned vocals. (Tomer, CA)
- 1215 NEW ZEALAND, Kaikohe, 1ZE, 1040 4/11, weak during brief fade up. //1008. (Tomer, CA)
- 1215 ? UNID, carrier looping SE Asia 1250 11/27. (Peterson, CA)  
 +Carrier 1355 11/29 looping N. Asia this time rather than DU. S. Korea possible. (Peterson, CA)
- 1224 AUSTRALIA, Sydney, 2WS, the first commercial station to go on the air in 46 years, opened 11/24 on 1224 kHz. (NZDXT 1/79)
- 1224 ? UNID, carrier looping N. Asia 1252 11/27. (Peterson, CA)  
 +1236 4/06, good carrier. (Tomer, CA)
- 1233 ? UNID, 1245 4/05, weak JJ talk by female. Two stations listed in Pacific log. (Tomer, CA)
- 1240 AUSTRALIA, Sale, "Easy Rollin' 3TR" jingle and 5-9 a program promo 1150 11/22. I presume this was same station w/Ford Motor Co. One half hour 1115 11/22; however calls given then sounded like 3GO/3PO. But then 3TR sounded like 3DR.... (Taylor, Fiji) (This station has since moved to 1242 -ed)
- 1242 JAPAN, Tokyo, JOLF, in w/weak voice in JJ 0925 12/18. (Peterson, CA)  
 +In fair w/mx fighting horrendous 1240 slop. (Peterson, CA)  
 +1335 4/04, likely the station putting a strong het against 1240. Weak JJ sounding talk heard u/1240 slop. (Tomer, CA)  
 +1143 4/06, weak w/JJ talk. (Tomer, CA)
- 1242 ? UNID, carrier looping N. Asia 1254 11/27. JOLF? (Peterson, CA)
- 1250 ALASKA, Homer, KBBI, CP for station with 5/5 kw. (Arctic 2/23)
- 1250 USSR, Vladivostok RSPSR, good in JJ 1320 11/23. (Taylor, Fiji) (This station has since moved to 1251 -ed)

- 1251 ? UNID, 1112 3/05, carrier not heard before, loops due west. (Peterson, CA)
- 1269** AUSTRALIA, Sydney, bad het 1020 11/23; not so bad the following night. (Taylor, Fiji)
- 1269 ? UNID, carrier 1020 12/11, noted for first time and looping east coast of Asia. (Peterson, CA)
- 1270 HAWAII, Honolulu, KNDI, 1006 1/08, weak but clear "...right here on KNDI" by male in foreign accented EE, then into some kind of ethnic mx, was u/a stroc open carrier. Hawaii number 20 for me. (Tomer, CA)
- 1278 ? UNID, carrier noted 1318 11/27. (Peterson, CA)  
+1202 2/18, carrier/het loops Asia. (Portzer, WA)  
+1003 3/18, het noted. (Portzer, WA)
- 1287 t JAPAN, Sopporo, JOHR, hetting 1290 w/poor audio and deep fades 1235 12/03 and 1000 12/04. (Gradin, OR)  
+1150 2/18, assumed the one w/JJ talk fair-good in slop. (Portzer, WA)  
+1119 3/05, just above bad 1290 slop, w/JJ talk. (Peterson, CA)
- 1287** INDONESIA, Palembang, RRI, was heard with 50 kw by EBU in Finland at sunset. (Arctic 12/02)
- 1287 ? UNID, carrier looping N. Asia 1313 11/23 and 1320 11/27. Could be Japan or China. (Peterson, CA)  
+Weak carrier only, probably either JOHR or China 0907 11/27. (Everitt, CA)
- 1296** AUSTRALIA, Brisbane, 4BK, quite loud nights; regular 11/23. (Taylor, Fiji)
- 1296 ? UNID, carrier looping N. Asia 1322 11/27. China? (Peterson, CA)
- 1305 ? UNID, carrier 1324 11/27. Bad KDIA-1310 slop. (Peterson, CA)
- 1310 HAWAII, Kahului, KNUI, noted "K-N-U-I" singing ID fair 0811 10/02, dominant. Great Hawaiian conditions this night. (Hall-Patch, BC)  
+0900-30 1/08, must have been weakie heard w/rock mx, what sounded like "K-nooie" slogans. (Tomer, CA)
- 1314** AUSTRALIA, Wollongong, "131-2WL" jingle 1135 11/23. (Taylor, Fiji)
- 1314 JAPAN, Osaka, JOUF, JJ commercial noted fair 11/24 1027. (Seaver, CA)  
t +JJ talk and light mx, poor 1320 12/03. (Gradin OR)  
+1025-35 12/11 w/good signal at times w/JJ talk and songs until 1030 after which there was just talk. News? (Peterson, CA)  
t +1523 1/14, female JJ pops, fading, gone by 1531. (Williams, OR)  
+1128 3/05, fair w/JJ talk. (Peterson, CA)
- 1314 ? UNID, carrier only 1110 11/26, 0909 11/27, probably either JOUF or China. (Everitt, CA)  
+Carrier 1325 11/27, bad KDIA slop. (Peterson, CA)  
+1040 2/26, weak TP carrier. (Tomer, CA)
- 1323 ? UNID, carrier 1039 12/11, heard first time. (Peterson, CA)  
+0907 1/06, weak carrier DU loop, maybe Fiji. (Tomer, CA)
- 1332 JAPAN, Nagoya, JOSF, Tokai R. 1130 3/05, weak w/JJ. (Peterson, CA)
- 1332 ? UNID, weak carrier 0943 11/27, probably either JOSF or China. (Everitt, CA)  
+Het against KUPL et al 1330 1329 11/25. Loop seemed to suggest a DU. (Portzer, WA)  
+Carrier 1351 12/06 looping N. Asia; new. (Peterson, CA)
- 1368 ? UNID, carrier 1328 11/27. (Peterson, CA)
- 1377 ? UNID, carrier only 1143 11/26. (Everitt, CA)  
+Carrier 1351 12/05, heard first time. (Peterson, CA)
- 1385 PHOENIX ISLAND, Canton Island, WXLE, 1036 2/18, blockbuster signal in null of local KRKO-1380 w/non-stop MoR. No ID heard but assumed this per format and strength. Also heard 1118 w/male in EE, possibly religious talk. Was definitely here per frequency meter and bandscanner, had het w/something on

1386. They were on 1386 a while back--wonder why they moved back to 1385?  
(Portzer, WA)
- 1386 ? Verification letters say that they will probably cease broadcasting in June or July because of a phase-down of military activity on Canton Island.  
(NZDXT 3/79) (See also 1386 -ed)
- 1386 JAPAN, NHK-2, synchros, 1050-1100 12/11, very weak, such that voice was not readable, but it was IDed nicely by NHK pips on the hour. (Peterson, CA)
- 1386 PHOENIX ISLANDS, Canton Island, WKLE, weak on their new frequency 1130 9/18. They sure have weak modulation. If their modulation matched their carrier for strength, it would be armchair copy most of the time. (Peterson, CA)  
+Assumed to be the weak carrier w/light MoR mx looping DU 1026 10/02.  
(Portzer, WA)  
+Must be the carrier 1121 11/06. (Peterson, CA)  
+Noted 11/24 1020 fair, 11/27 1042 fair w/essay listening mx. This signal is quite variable as one would expect for 250 watts over 4300 miles.  
(Seaver, CA)  
+A station I thought you could kiss off for good, put in a good carrier 1330 11/27 under mildly auroral conditions. (Peterson, CA)  
(See also 1385 -ed)
- 1386 ? UNID, carrier looping central Asia 1323 11/23. (Peterson, CA)  
+Appears to be an oriental station w/female announcer noted 0750 followed by accordian or at least what sounded like one, then male announcer 0759, then 3 pips; 2 low short notes followed by one high long note. Any ideas? 11/26, not heard since. (2 and 1 pips sounds like S. Korea except that there's none listed.-bp)  
+Carrier only 0946 11/27, any number of Japanese stations possible, plus China. (Everitt, CA)  
+Poor signal here, not much audio, probably the NHK-2 outlets 1015 12/04.  
(Gradin, OR)  
+1562 12/09, big carrier, audio sounded like pop mx, then Christmas carol, "First Noel". NHK relays off by 1500, so who? (Hall-Patch, BC)  
+1041 2/26, possibly EE talk, perhaps 5AA, Adelaide. (Tomer, CA)
- 1395 AUSTRALIA, Lithgow, 2LT, fair 1120 11/23. (Taylor, Fiji)
- 1395 ? UNID, carrier, new here just making by KRE-1400 0948 12/18. (Peterson, CA)
- 1404 WESTERN SAMOA, Apia, 2AP, open carrier 1225 11/22 and good on Regular Schedule 0915 11/23. Never as strong as WWUV-1120. (Taylor, Fiji)
- 1404 ? UNID, carrier, an even tighter squeeze by KRE-1400 0946 12/18.  
(Peterson, CA)  
+1043 2/18, carrier loops DU, Samoa listed s/off at 1000 so probably not them. (Portzer, WA)
- 1413 AUSTRALIA, Newcastle, 2KO, //ZUE except for local promo 1120 11/23.  
(Taylor, Fiji)
- 1413 ? UNID, carrier looping central Asia 1327 11/23 and 1335 11/27. China or Japan  
(Peterson, CA)  
+Carrier only, JOIF or China most likely 1150 11/27. (Everitt, CA)
- 1420 HAWAII, Honolulu, KCCN, w/Hawaiian mx 1110 11/23. Strong. (No sign of New Hebrides). (Taylor, Fiji)  
+Loud as heck 0832 11/29 w/ID, then more Hawaiian mx. (Tomer, CA)
- 1422 JAPAN, Yokohama, JORF, 1517-30 1/21, EE pop vocals. 1518 JJ male announcements. (Williams, OR)  
+1410-17 3/11, JJ vocals, female w/JJ announcements and chimes. (Williams, OR)
- 1422 NEW HEBRIDES, Port Vila, YJBL, Australia has given the New Hebrides a \$1.2 million to upgrade the medium wave and high frequency broadcasting service, including studios and transmission equipment. (NZDXT 3/79)  
+Broadcasts in FF at 0845 //SW. (Beauregard, QU)
- 1422 ? UNID, carrier looping N. Asia 1331 11/23. Japan or China. (Peterson, CA)  
+1522 12/09, female talk in unid oriental language, u/KUJ-1420 splatter didn't sound CC, but... (Hall-Patch, BC)

1430

AUSTRALIA, Wollongong, 2WL, 1025 11/22 w/continuous tape saying "2WL is no longer using this frequency. Join us on 1314 at 1:31 am". (Taylor, Fiji)

- 1440 t JAPAN, Sapporo, JOWF, likely w/US pops and JJ talk 0912 11/27 w/some interference from apparent Latin American station also slight 200 Hz het. (Everitt, CA) (200 Hz het was likely from carrier noted by Phil Bytheway on 1439.8. Maybe somebody almost, but not quite, changed to the right frequency -bp)  
+A regular here, usually topping the domestics on Sunday morning and Monday morning 0800-1200. (Gradin, OR)  
+Dominant w/man and woman in JJ 1320 12/16. (Portzer, WA)
- 1449 ? UNID, faint het on lower sideband on 1450 1239 11/25. Probably a DU, per conditions that morning, but the 2 DUs here are both 2 kvers. (Portzer, WA)  
+DU 1120 1/15, w/KEST-1450 off! (Peterson, CA)
- 1458 ? UNID, het on KDON/KMWX-1460 1312 11/25. (Portzer, WA)  
+Carrier 1347 12/06 looping S. Asia. Nev. (Peterson, CA)
- 1467 t FIJI, Rakiraki, 0825 12/01 strong carrier, some weak Hindi-sounding talk, looping towards S. Pacific. (Tomer, CA)
- 1467 ? UNID, carrier 1345 12/06 looping S. Asia. Nev. (Peterson, CA)
- 1475 SABAH, Tuaran, RMKK (Radio Malaysia Kota Kinabalu), fair w/US pop mx 1137 7/21. (Tomer, CA)  
t +1130 1/15, almost certainly the one w/fast female talk and pop mx (usual Malaysian program this hour) but noted on 1472 kHz. 2 hz error. Hasn't made 9 kHz switch after all? Carrier noted several times since on 1475. (Hall-Patch, BC)  
t +1050 2/04, apparently still here., good w/pop mx and male talk in language. (Portzer, WA)  
+1158 3/05, fair w/pop mx, unid talk hetting something on 1476. (Portzer, WA)  
+1235 4/06, fair w/pop mx. I guess even local KRED-1480 going all night won't stop this one. (Tomer, CA)  
+1056 5/28, fair carrier thru KVAN-1480 slop, better 1120 w/pop mx and female. Good w/het from unid 1476 station, 1153, only Asian heard. (Portzer, WA)  
(See also 1476 -ed)
- 1476 t CHINA, Wencheng, 1532-38 1/21, female CC announcements, opera mx. Fair. (Williams, OR)
- 1476 t NEW ZEALAND, Auckland, LXA, R. Hauraki, 1206-1230 4/02, surely the one w/rock mx, looping DU thru slop. Possible female announcement at 1211. Pacific log shows all other DU's off or w/low power at this time and LXA listed as NSP w/rock mx, so apparently them by process of elimination. (Portzer, WA)
- 1476 t SABAH, Tuaran, RMKK, probably the weak audio 1227 12/04. Not strong enough to be sure, but was looping the right way. Nice to have this and R. Moscow on at different times. (Peterson, CA)  
+Good signal but poor audio as usual 1211 12/18. (Peterson, CA)  
(See also 1475 -ed)
- 1476 USSR, Vladivostok, RSFSR, was just barely in 1432-1500 12/01. Voice was very weak, but the Kremlin bells saved the day. Kremlin bells started 1459:30 rather than on the hour (which I've never heard before), but domestic slop prevented hearing if it continued past 1500. (Peterson, CA)  
+1530 12/09, Kremlin bells noted w/fair strength. (Hall-Patch, BC)
- 1476 ? UNID, Malaysia or DU here w/rockish sounding mx 1232 11/25. Couldn't get loop bearing as I had to null 1470/1480 slop. (Portzer, WA)  
+Malaysia? 12/18 1355-1502 tuneout, easy listening type format, female announcer in EE. Lots of slop, fair signal by tuneout. Could not quite make it out. (Williams, OR)  
+1048 4/02, bits and pieces of audio. Seemed to loop more towards New Zealand than Australia, probably 1XA over 4ZR. (Korinek, WA)  
+0912 4/16, fair carrier looping DU, but no audio, weaker by 0944. New Zealand? (Hall-Patch, BC)
- 1494 ? UNID, carrier 1342 11/27. (Peterson, CA)

1500

HAWAII, Honolulu, KUMU, instrumental mx and ads/ID over California stations 1015 11/23. (Taylor, Fiji)

- +Good 0913 11/29 w/"K-U-M-U, AM One-five-oh" then into more easy listening mx. (Tomer, CA)  
 +1000 1/08, fair-good w/beautiful mx. "Koo-moo, AM 1-50" ID, and nx 1000, o/weak domestics interference. KXRK off. (Portzer, WA)
- 1503 JAPAN, Akita, JOUK, NHK-1 just after peaking loop this made a beautiful quick fade up w/JJ talk, mx. (Peterson, CA)  
 +1240 4/06, fair w/JJ talk. (Tomer, CA)
- 1503 ? UNID, carrier 1344 11/27. (Peterson, CA)
- 1512 AUSTRALIA, Newcastle, 2NA, ABC-2, 1300 12/23, was in quite weak, only 6 pips evident at 1300. (Peterson, CA)  
 +0945 2/05, probable source of quiet mx. (Tomer, CA)
- 1512 CHINA, location unknown, pips 1500 12/04 good. (Taylor, CA)  
 +1545 w/KGA-1510 splatter nulled, this one came thru w/fair-good signal. Male talk, then female, then march mx. IDed by 5125 SW//. This is the Taiwan broadcast per WRTH. (Hall-Patch, BC)  
 +1320-23 3/11, very weak w/female in CC. (Williams, OR)
- 1512 ? UNID, carrier 1337 11/23 and 1345 11/27 looping central Asia. China? (Peterson, CA)  
 +Het on KGA-1510 1229 11/25. 2NA probably. (Portzer, WA)  
 +Weak audio, poor signal 1307 12/03. Ideas? (Gradin, OR) (China's been reported here. 2NA also possible -bp)  
 +1110 2/18, accented EE loops DU, KGA-1510 open carrier 30 seconds later put an end to it. Probably 2NA. (Portzer, WA)
- 1521 ? UNID, 1114 11/23 erratic fading on faint carrier, possibly DU. Put a slight het on KYXI-1520. (Hall-Patch, BC)  
 +Carrier 1145-50 12/11 unable to loop, new. (Peterson, CA)  
 +1124 2/04, weak het above KYXI-1520. (Portzer, WA)
- 1539 ? UNID, carrier 1155 12/11, unable to loop; new. (Peterson, CA)
- 1548 t AUSTRALIA, Emerald, 4QD, ABC-3, probably the EE looping DU noted 11/23 1135 poor, 11/24 1012 fair, 11/25 1225 poor, 11/26 1116 poor. Much KRG0-1550 slop. Het there nearly every time I check. A good DU "indicator". (Seaver, CA)  
 +A veritable powerhouse so far, first heard 1130 11/24 and each morning since, noted hetting domestics as late as 1255, local sunrise here. (Brown, MI)
- 1548 ? UNID, 1214 11/23 slight traces of DU carrier here. (Hall-Patch, BC)  
 +Very weak carrier looping N. Asia 1339 11/23 and 1347 11/27. Probably China. (Peterson, CA)  
 +A very faint carrier detected at times 0930-1130 11/27. My total attention to this was wasted, not a bit of readable audio. A few snatches of mx may have been slop. Not a trace before or since. (Hutton, GA)  
 +1205 3/05, tuned in at 1205 and several times afterward, was reading EE nx at 1205 w/Asia nx items, no particular country, loops NE Asia, definitely not DU; any ideas? (Peterson, CA)
- 1557 AUSTRALIA, Taree, 2RE, assumed the vocal chorus up briefly thru bad high noise level 11/26, only 4QD in otherwise. (Brown, MI)
- 1557 UNID, TP carrier 11/25 1125 quite weak. 1548 kHz (Emerald) non-productive all 4 mornings. (Martin, CO)  
 +Carrier 1157 12/11, unable to loop; new. (Peterson, CA)
- 1566 SOUTH KOREA, Cheju, HLDA, one of the best Far East stations noted 11/24 1015 w/religious program, 11/25 1230 w/fair signal, 11/26 1158 fair in unid language (only HLDA and JOBB noted 11/26 in geomagnetic storm), 11/27 1040 fair. This is an excellent station for a Far East high frequency "indicator". (Seaver, CA)  
 +Monster signal 1147 11/26 w/piano rendition of simple song like something out of an instruction book, followed by deep voiced man w/muffled audio; could not make out language due to muffling and low modulation level. (Everitt, CA)  
 +Noted most nights; good w/female announcer in non-JJ-sounding oriental language (possibly KK) 1357 11/30; excellent w/very well modulated talk by 2 men

- in apparent JJ (not as harsh as others to me) 1152 12/03. I imagine this should be fairly easy when I get back to OK. (Everitt, CA)
- +1422-1248 12/02 w/brief spurts of voice that reached excellent levels at times. At 1445 played a few bars of "Star Wars" theme but not from the Soundtrack. (Peterson, CA)
- t +1508 12/09, no formal ID on this one yet, but this has to be the one w/organ mx, male talk, seemed to be CC (Maybe my unid CC of a couple of weeks ago?) Finished w/Amen 1559, then female talk, no apparent ID. Carrier cut 1601, but back after 30 seconds w/more organ mx and talk, this time in RR. Fair-excellent, measured 1566.002 to 003 Hz at 1609, reported. (Hall-Patch, BC)
- +Assumed the one w/religious mx sung in unid language including "O Holy Night" by a male 1102-1110 12/10. Good signal but suffered from horrendous sloop from CHUB-1570 and KZOK-1590. (Portzer, WA)
- +Fair in KK or JJ, hard to tell because of KDAY-1580 splash 1202 12/11. (Peterson, CA)
- +Very good w/male talk and then song "Jupiter, Theme from The Planets" (I knew this because we played this in our high school band, hi), and ID 1300 o/unid TP. (Gradin, OR)
- +Incredibly strong signal being wiped out by even stronger sloop from CHUB-1570 and/or KZOK-1590 1153 12/16 w/male talk. (Portzer, WA)
- t +Male and female in CC 12/16 brief church mx 1528, female announcements 1529. CC program continued w/hymns, etc. (Williams, OR)
- +Signal blasting in at times but w/mushy audio in either JJ or KK 1120 12/18. (Peterson, CA)
- +1245 1/07, blasting in w/perfect readability w/JJ talk, best signal ever this station. (Peterson, CA)
- t +1000 1/08, weak carrier possible. (Everitt, OK)
- +1222 1/22, strong carrier. Female in unid language. Loud by 1230 w/mx. (Bytheway, WA)
- +1100 2/01, really blasting in and yet was the only northern TP in at all. (Peterson, CA)
- +1236-1300 2/04, after weeks of carrier only, payoff came Sunday morning, country #69. Soprano solo, female talk in unid language at 1300, KQXI ended it. If any N. Asia makes it east of Denver, I'd bet on this one. (Martin, CO)
- +1111 2/18, very good w/KK talk. (Portzer, WA)
- +1003 2/26, this station often heard w/loud signals, so may be good bet for inland reception. (Tomer, CA)
- +1329 3/11, JJ male/female announcers. Hymn type mx, ID. Heavy 1570 sloop. (Williams, OR)
- +1018 3/18, only a weak carrier w/some audio. (Portzer, WA)
- +1108 3/19, strong carrier; apparent religious mx. (Harms, UT)
- +1300 3/25, female in KK, religious sounding mx, 1300 ID, local quality. (Pejza, CA)
- +1338 4/05, fair w/KK religious program. (Tomer, CA)
- 1566 ? UNID, carrier looping N. Asia 1341 11/23. Some singing, language unid. Suspect HLDA. (Peterson, CA)
- +male noted in what seemed to be CC from 1550 12/07, fatal fade 1600, but back 1607. Not // w/first program or Fujian Front stations and second program off at this time. A CC local perhaps, but which one?? (Hall-Patch, BC)
- (HLDA carries some CC programs, but WRTH-78 doesn't show what they carry at this hour.-bp)
- +1002 12/25, weak carrier here, probably HLDA, which was easily heard when in CA last month. (Everitt, OK)
- +0950 1/11, possibly Fiji... (Tomer, CA)
- +1150 1/15, 1555 1/16, 1340 and 1533 1/17, probably S. Korea. Usually fades erratically though some audio (choral singing) made it through at 1534 1/17. (Hall-Patch, BC)
- +1025 4/05, carrier looping DU. Fiji? (Korinek, WA)
- 1575 CHINA, Wenzhou, was looking for Thailand but this was the station in 1450-1505 12/02. Voice was not well modulated so couldn't tell from that. Strained to hear Yankee Doodle at 1500 but got a choral rendition of the "Internationale" instead for 5 minutes. Then the signal suddenly dropped out 1505--w/off? Peterson, CA)
- +Erratically fading signal, fair at best 1459 12/06, then 5 low and 1 high pip 1500. Female talk in CC followed, Possibly ID, but soon faded away. Not // first program (Per SW//), and had faded before local // on 2415 could be checked. (Hall-Patch, BC)
- 1575 THAILAND, Ban Pachi, VOA, 12/16 1532-1545, VOA nx type program. Could hear another station on frequency w/pop mx - FEN? Lots of sloop from 1570/1580. (Williams, OR)

another station on frequency w/pop mx - FEN? Lots of slop from 1570/1580.  
(Williams, OR)

+1556-1605 1/13, EE program about American Tobacco Industry. "Yankee Doodle"  
1600 into Bengali. (Williams, OR)

UNID, whopping carrier but only faint audio in unid language 1155 11/23,  
steady signal but wouldn't come up to discernable level. Thailand or ???.  
(Brown, MI)

+Carrier looping central Asia 1347 11/23 and 1351 and 1456 11/27. Probably  
VOA-Thailand. (Peterson, CA)

+Erratically fading carrier 1118 11/23 and 1223 and 1215 11/24. No direction  
possible due to rapid fading. Thailand seems the best possibility.  
(Hall-Patch, BC)

+In w/weird chimes of alternation low and high notes 1129:30. The timing  
suggests USSR, but I have never heard chimes like these before. Also, have  
ided China here a week before. (Peterson, CA)

+1534 12/09, two audios here, male talk possibly in EE and slow choral signal  
(not CC). The male perhaps Thailand as scheduled in EE this time.  
(Hall-Patch, BC)

+TP carrier noted here at the same times as 1566-UNID above, but weaker.  
(Hall-Patch, BC)

+1026 4/05, carrier noted looping DU, New Zealand? (Korinek, WA)

+1150 4/09, rock mx, very weak u/severe slop. May have been 200, as 3XG is  
religious. (Tomer, CA)

1584 ? UNID, carrier new here, looping TP 1038, Guess it must be those flea powered  
Japanese Synchronos. (Peterson, CA)

1593 JAPAN, Nigata/Matsue, JOQB/JOTB, NHK-2, was in rather weak w/NHK pips 1500  
12/03. (Peterson, CA)

1593 ? UNID, probably Japan 1312 w/poor signal and JJ talk. (Gradin, OR)  
+1512 12/09, monster TP carrier, but only fragments of audio, (chimes or mx?).  
(Hall-Patch, BC)

1602 ? UNID, carrier looping N. Asia 1350 11/23. Probably the Japanese Synchronos.  
+Carrier in weak 1358-1400 11/29 but could not dredge out any pips on the  
hour. (Peterson, CA - last two entries)

#### CARRIER DX ROUNDUP

Randy Seaver, near San Diego, carriers, signals, hets and/or BFO traces  
noted on the following frequencies 11/23-27: 558(DU?), JOAB-693, JOIB-747, het 792,  
het 819 (FE), JOBB-828, several FE-837, VSZ1-846, FE-846, het-855(DU), several FE 864,  
JOGB-873, het 882 (FE). 1YC-882, hets 891 (FE-DU), JOKR-954, het 972. 1ZD-1008, het  
1035, China-1044, JOAR-1053. JOER-1143, het-1179(FE), het-1197, het-1206 (China?),  
het 1215, het 1269, het 1296, JOUF 1314, het 1323, het 1332 (FE), het 1377(FE), WKLE-  
1386, het 1404, het 1413, het-1422, het-1476 (SABAR?), 4QD-1566, HIDA-1566, het-1575.

Dave Korinek, near Seattle, WA, the following carriers were noted 11/28 around  
1200-1230: 1098, 1107, 1116, 1134 1135(Caribbean?), 1197, 1206, 1233, 1278, 1314(Solid,  
looped between DU and Philippines), 1323 (Strong), 1327.1, 1332, 1386, 1422, 1449, 1458  
(fair), 1467, 1476, 1494 very weak, 1504.5 (LA?), 1026, 1044, 891, 882, 873, 792, 1512,  
1548.

Father Jack Pejza, in Modesto, CA notes the following: on 11/24 1400-1507-  
558, 567, 603, 648, 657, 711, 747, 765, 783, 792, 819, 837, 840, 846, 882, 891, 1035,  
1044, 1179, 1197, 1215, 1314, 1467, 1566, 1575. On 11/27 - carriers on 538, 548, 555,  
558, 565, 567, 577, 576, 574, 584, 593, 636, 643, 648, 652, 659, 662, 666, 671, 675,  
685, 688, 697, 837, 841, 844, 873, 882, 886, 893, 896, 903, 906, 909, 913, 915, 925,  
945, 948, 988, 1026, 1033, 1036, 1043, 701, 714, 728, 734, 747, 753, 757, 776, 783, 786,  
792, 795, 798.5a, 815, 819, 822, 825, 828, 831, 835. "Some of these carriers appeared  
to be locally originated. Very frustrating to have so many carriers and no audio.  
This between 1259 and 1345." (Frequencies which are part of the new plan and heard 11/  
27 were underlined by the editor-bp)

Phil Bytheway, Seattle, heard the following: 11/25-738 at 1136, 783 at 1146

and 1208, 792 at 1147, 747 at 1154, 837 at 1217, 612 at 1223, 594 at 1228, 891 at 1229, 873 and 864 at 1230, 837 at 1232, 1026 at 1237, 1035 at 1305, 1044 at 1307, 1053 at 1342. 11/26 - 657 at 1052, 1512 at 1108, 1476 at 1111, 1439.8 at 1113, 1386 (W/audio, light rr) at 1115, 1332 at 1118, 1206 at 1120, 1197 at 1123, 1044 at 1129. Heard carriers/hets on 594, 655, 657, 666, and 1008 between 1233 and 1251 12/02; and 774, 747 and 828 (apparently all Japanese) carriers around 0640 12/06.

Gene Martin, Denver, indicated that on the first 8 days of the new frequency plan he detected carriers on 657, 693, 738 (Tahiti plus something else after they s/off), 747, 756, 774, 819, 873, 882, 1008, 1026, 1125, 1206, 1548, and 1557.

Doug Everitt, temporarily in Antioch, CA, heard the following hets 12/03, mainly looping NW: 567, 576, 594, 756, 783, 837, 918, 1008, 1035, 1062, 1107, 1116, 1134, 1152, 1161, 1242, 1278, 1368, 1377, 1458, 1503, 1602, adds "Most other splits had IDed or tentative loggings this night, or else had too much slop to hear a het. One carrier was also briefly noted on 675, actually managing to poke a het thru on KNBR. Will wonders never cease?"

Pete Taylor, San Francisco, noted the following hets/carriers at 1500 12/04: 639, 711, 1179, 1386, 1467, 1512, 1575.

Bruce Portzer, WA, noted the following hets/carriers; 1000-1100 12/04: 1098, 1017, 1008, 891, 882, 864, 828, 612; Around 12/08 1000, the only carriers/hets heard were 747, 774, 828, and 864 looping to NE Asia; and 639/891 looping DU (probably Fiji). All 12/16 between 1100 and 1300, 612, 648, 655, 738, 1035, 1107, 1188, 1197, 1278, 1314, 1322, 1323, 1368, 1377, 1386, 1422, 1449, 1602, most or all of them looping to the Far East are during an opening that was highly localized to Japan. Hets and/or carriers noted 12/25 1030-1200-612, 639, 747, 882, 891, 1026, 1098, 1359, mostly looping DU.

#### DU TIME CHANGES

NEW ZEALAND and AUSTRALIA change to Summer Time on 10/29.

New Zealand is GMT +13;

Victoria, NSW and Tasmania are GMT +11;

South Australia is GMT +10½. Other Aussie states are on Standard Time --

Queensland GMT +10,

Northern Territory GMT +9½

Western Australia GMT +8

The only other countries in the southern hemisphere observing DST appear to be Lord Howe Island (GMT +11½), Chile (GMT - 3), and Easter Island (GMT -6). (NZDXT 10/78)

AUSTRALIA, 2W Sydney-1224 5kw began transmission on 11/23, station runs all night. Address: P.O. Box 449, Blacktown, NSW 2148, Australia. 2GZ Orange stays on 990. 2WA Willcannia was still on 1570 as of 12/09. (NZDXT 12/78)

CHINA, Kwangtung-648 (ex 650); Canton City, 2nd program-1062; Canton Downtown service-972. (Arctic 12/15)

MW frequencies definitely being used: 702 //3360; 729//3220; 792//3360; 837//3950, sometimes; 846//3360; 882//2340 and 3920 at different times; 930//4045 and 2490; 954//3400 and 3360; 981//3220; 1008/3200, 3360 and 4380 at different times; 1062//3220. 1089//3360; 1116//3360; 1178//3220; 1266//3220; 1377//3200; 1395//3220; 1431//3360; 1437.5//2340 and 3220 at different times; 1512//3360. Tentative Chinese loggings are on 585, 927, and 1285. (SCDX 1/16)

1521 now being used by the Foreign Service, probably ex-1525. (Arctic 3/23)

The new orthography (system of spelling) for Chinese words is now being used. Called Pinyin, the system standardizes the Romanization of Chinese names. Peking becomes Beijing, a spelling which more accurately reflects the standard Chinese pronunciation. (S.F. Chronicle 3/05)

Trans World Radio is currently having a campaign to raise funds to increase it's transmissions to China. Location of new transmitters unknown.

FIJI. Fiji is now using the following frequencies: 558, 639, 684, 711, 810, 891, 927, 1215, 1323, and 1476. (SCDX 12/12)

HAWAII. KADM-870 will increase to 50 kw in 1979. KNUI-1310 had an equalizer installed for an improved signal. KPOT-1040 has the weakest signal in Honolulu, even weaker than 1 kw KZOO, but puts an excellent signal into New Zealand. KPUA is also weak locally. KIYM may move to 570. (NZDXT 11/78)

KISA-1540, now a daytimer, will go fulltime 5/5 kw. (Arctic 12/02)

KAHU changed to rock/top 40 early in July. Promo heard was K-94. Seemed to be simulcast with KULA-920. (NRC 12/18)

Alan Roycroft says that Hawaiian stations are preparing to go stereo AM. He is busy trying to get the FM outlet of KIKI on the air, with call sign KPFG. (NZDXT 1/29)

INDONESIA. RRI announced that all medium wave stations must use the new frequencies. Non-government stations which fail to use them will not be allowed to broadcast. (Arctic 12/15)

KAMPUCHEA. (Apparently the new name for Cambodia). Radio Democratic Kampuchea, operated by the Pol Pot government, last heard 1/07 on 918/4907. Later resumed operation from south China, on 760, 9730 and 7350. Announced location was Pnom Penh and would be on 2200-1700. (SCDX 1/23)

Transmitters now believed to be in southern Vietnam. Programming also carried // on 917, 4907 and 6088. Programs are in Cambodian. (SCDX 2/00)  
Has announced it will be on 940, 4907, and 6130, but still is heard on 917, 0088 and 9695. 760, 7350 and 9753 were on the air until 2/04, most likely from Vietnam. Current service from Pnom Penh is 0400-0500, 1100-1300 and 2300-2400. (SCDX 2/20)

SOUTH KOREA. Korean Broadcasting System has announced the following new frequencies: First Program on 711, with relays on 1134, 1169, 1341, and 918. Second Program on 603. Public Education Program I on 972 and Public Education Program II on 756. (SCDX 12/05)

On 11/22 at 2100, TBC, DBS and CBS moved to 639, 792, 837 respectively. 603 is KBS second program; 711 is KBS first program; 756 KBS Public Education Program 2, 972 KBS Public Education Program 1. First program is relayed on 918, 1131, 1169, and 1341. (Arctic 1/12) NBC in Pusan now uses 1161. (SCDX 12/12)

NEW ZEALAND. A company is being formed to set up a fulltime private station in Palmerston North, to be on the air by August. Radio Waitaki in Oamaru will possibly have the calls of 4ZB. 4XD, the private non-commercial station in Dunedin, says that failing support may force it to close after 56 years on the air. (NZDXT 1/79)  
The frequency changes has caused co-channel interference between Radio Nova and Radio I. Radio Pacific, Auckland, will begin on 1593 on April 1 with 24 hour news/talk/community programs with 5 kw. 12M has applied for an increase to 5 kw.  
A warrant will be sought for a mini-station in Gore. Local programming until 1030 LT, then relay 4ZA until 1400 local time. After that it will relay the YC program. Another mini-station, Radio Horowhenua at Levin is being planned. 6 hours local programming, then relays of 1ZA or 22M.  
The Community Network and ZM stations will be operated 24 hours by Radio New Zealand if a warrant is obtained. (NZDXT 3/79)

PHILIPPINES. DWW Manila 630/50 kw; DZAS Manila 702/50 kw; DPI-1 738/50; DWRV Manila 882/50; DZRP Manila 918/50; DXXX Zamboanga 1008/100; DWVA VCA Poro 1143/1000; Maguin-danao 1179/60; DPI-2 Pampagna 1287/200; DZOR FEBC 1458/250. (MWN 12/78)

SINGAPORE. English on 630, CC on 675, Malay on 990 all 50 kw plus multilingual service on 792 with 750 kw. (MWN 12/78)

TAIWAN. Two Taiwan stations, 1360 and 1460 kHz, still are on non-band frequencies. (SCDX)

Taiwan is definitely on 1100 and 1460; Unid Chinese looping toward Taiwan are on 590, 600, 660, 690, 700, 760, 880, 920, 950, 960, 1010, 1020, 1030, 1090, 1230, 1240, 1370, 1380 and 1400. AFRTS stays on 1550 and 1570. (SCIX 1/23)  
All U.S. Forces personnel will be removed in next few months. This means 1550 and 1570 will close down in March or April. (NZDXT 3/79)  
Broadcasting Corporation of China now uses 730, 750, 900, 1100 and 1200 for its Voice of Free China broadcasts. (Arctic 3/09)

THAILAND. R. Thailand now using 891 kHz. Second Program on 819. Third Program on 846, and external service on 927. (SCDX 12/05)

New frequencies for stations in the Bangkok area: 1332--Radio O-So; 1359--Radio Yan-Kro; 1278--Radio Kho-So-Tho-Bo; 1170--Radio So-So-So; 1143--Radio Tho-Tho-Tho. (SCDX 12/12)

Apparently there's a difference of opinion on Thai spelling; Arctic lists the 1143 station as Thor-Thor-Thor; 1170 as Sor-Wor-Por; 1278 as Kor-Sor-Tor-Bor ex 1280; 1332 as Or-Sor ex 1330; and 1359 as Yan Kraw ex 1300. The 1143 is ex 1150 and 1170 is ex 1160. In addition, we have the following stations: 819, Radio Thailand 2nd program; 846 Radio Thailand 3rd program ex 870; 891 Radio Thailand ex 830; and 927 Radio Thailand relay of External Service ex 920. (Arctic 1/12)

Approval has been given to more "Armoured Radio 828" 20kw station from Bangkok to Si Racha district in Chon Buri. Four navy stations have had power increases approved from 10kw to 20kw: So Tho Ro on 684 in Bangkok, So Tho Ro 3 in Phuhen on 1458, So Tho Ro 5 on 1107 in Chon Buri, and So Tho Ro 6 on 1431 in Sangkhla. (Arctic 3/9)

# TRANS-PACIFIC SHORTWAVE PARALLELS

compiled by Bruce Portzer

The following is a list of medium wave stations in Asia and the Pacific which have or might have shortwave transmitters operating in parallel to them. Note that this list is only a guide to shortwave outlets which may be parallel to medium wave stations. In some cases the shortwave station may parallel the medium wave station only at certain times. In other cases the medium wave and short wave channels may not be parallel at all, but are noted anyway under the assumption that it's better to list a few incorrect guesses than to omit a potentially useful bit of information. It is hoped that this list will prove useful in identifying trans-Pacific signals.

For additional information, see the notes on individual countries at the end of the list.

531	6DL	6140/9610	639	4MS	4920/9660
	China	6665		JOPB	3377
	JOQG	3607	648	China	7770
540	China	6665		2NU	6090
	4QL	4920/9660		USSR	SWBC
	NHK	3607		JOIG	3607
	Indonesia	4920/9660	657	N. Korea	3320/6400
549	Malaysia	7200/9515/9710		2EY	6090
	China	6665		Sarawak	4835/7145/9535
	JOAP	3607	666	Noumea	3355/11710/7170
	2CR	6090		China	4045
	USSR	see note, 2nd pgm		Malaysia	7110/7200/9515/9710
	Sarawak	4835	675	2CO	6090
558	6WA	6140/9610		China	3970/6840
	China	see note		3YA	6105/11945
	KBS	3930/6015/6135		Singapore	6000/4635
567	4JK	4920/9660		Papua N.G.	3925
	JOJK	3607	684	2KP	6090
	2YA	6105/11945		China	see note
	KBS	2510		N. Korea	3320
	China	6665	693	Bangladesh	4880/6120/7140
576	2FC	6090		USSR	4030
	China	6665		China	3970/6840
	JOHG	3607		JOAB	3377
	USSR	see note, 2nd pgm	702	NHK	3377
	Malaysia	7200/9515/9710		2BL	6090
585	USSR	see note, FS		DZAS	3345/6030
	JOFG	3607		China	3360
	Indonesia	2370/3975/5046		China	4960/7480 (JJ FS)
	China	6665		Malaysia	7110/7200/9515/9710
	Papua Newguinea	3925/4890	711	4QW	4920/9660
594	China	3360/2350		HLKA	2510/3930/6015/6135
	JOAK	3607	720	China	7770
	3WV	9680/6150		4YZ	6105/11945
	Malaysia	7200/9515/9710		3MT	6150/9680
603	KBS	2510		Indonesia	3241/4845/4719
		7150/9710/11965	729	Malaysia	4845/6025
		(1130-1200 in EE)		N. Korea	2850/3015/4270/6290/6600/11350
	China	7770		China	3220
	Malaysia	7200/9515/9710		JOCK	3607
612	4QR	4920/9660		Sarawak	4950/7160/9605
	JOLK	3607	738	Tahiti	6135/9750/11825/15170
	China	see note		2NR	6090
	Malaysia	7200/9515/9710		China	2960/3310
621	3AR	9680		USSR	see note, 2nd pgm
	KBS	2510	747	4QS	4920/9660
	China	6665		KBS	2510/3930/5975/6135
	Sarawak	4950/7160/9605		China	7770
630	4QN	4920/9660		JOIB	3377
	2YZ	6105/11945	750	Taiwan	3230/3335/6040/6087/7150/7250/9690
	KBS	2510			

756	2TR	6090	927	Indonesia	4764/5885
	4QA	4920/9660		China	3260/7275
	Indonesia	5046		Thailand	4830/6070/7115
	China	6665		N. Korea	11350
	JOGK	3607	936	KBS	2510
	1YA	6105/11945		China	3220
	HLSR	2510/3930/5975	945	Solomon Isl.	5020/9545
765	China	See note		KBS	2510/3930/5975/6135
	Malaysia	7110/7200/9515/9710		China	See Note
774	JLO	6150/9680		Malaysia	7110/7200/9515(Ipoh)
	China	3940/4980			4965/9665(Johore Bharu)
	JOUB	3377		NHK	3607
783	USSR	4485, 2nd pgm	954	China	3400/3360
	2YB	6105/11945		Burma	5985
	N. Korea	2850/3015/4270/6290		Indonesia	4000/4719
		6600/11350/3320		Sarawak	5030/7130
792	4QG	4920/9660	963	China	4832
	China	3360		KBS	2510
801	Indonesia	2490/3935/5046		Indonesia	3323/5046
	N. Korea	3320/2850		Malaysia	4985/7195/9665
	China	6665	972	Indonesia	4932/5046
	4QY	4920/9660		USSR	3960/11840
808	N. Korea	2850/4270/6290/		HLSA	3930/6015/6135
		6600/11350		China	See Note
810	2BA	6090	981	China	3220/4940/6665
	China	2476		Thailand	9830/6070/7115
	USSR	see note		1YE	6105/11945
	FEN	6155	999	2NB	6090
	4YA	6105/11945		Indonesia	4805/6045/7070/
	Papua N.G.	4890/3925			11770/15200
819	2GL	6090		N. Korea	11350/2850
	1YZ	6105/11945	1008	USSR	See Note
	Sarawak	4950/7160/9605		China	3200/3360/4380
	N. Korea	2850/4270/11350		Indonesia	5046
828	3GI	9680/6150		Malaysia	7110/7200/9515/9710
	1YX/1YK	6105/11945	1017	China	6665
	China	see note		JOLE	3377
	JOBB	3377	1026	Laos	7070/7145
837	4RK	4920/9660		Solomon Isl.	5020/9545
	China	3950/6665		KBS	2510
	JOQK	3607		China	3260/7275
	USSR	see note, 2nd pgm		Thailand	4830/6070/7115
	Malaysia	4985/7295/9665	1035	NHK	3377
846	China	3360		HLCF	2510
	Sarawak	3385/4895/6050		China	4800/6665/6750
855	Indonesia	3223/4300/4719		Malaysia	4845/6025
		(Mataram)	1044	China	4960/7480
	Indonesia	4764 (Medan)		Indonesia	2719
	4QB/4QO	4920/9660		2UH	6090
860	N. Korea	2850	1053	Indonesia	3325/6070/4719
864	Papua N.G.	3925/4890		China	6665
	HLKR	2510		Malaysia	7110/7200/9515/9710
	Indonesia	5046	1062	HLKQ	2510
	China	4865/5920/7185		China	3220
873	China	See Note		Sarawak	3385/4895/5005/6050/
	JOGB	3377			6060/7270
	Sarawak	4950/7160/9605	1071	India	7260(1200-1300)
875	N. Korea	2850/3015/4270			3905(1430-1545)
882	KBS	2510	1089	China	3360
	China	2340/3920		Malaysia	7110/7200/9515/9710
	Malaysia	4985/7295/9665	1098	Indonesia	3375/4927 (Jambi)
	JOPK	3607			3355/5046 (Sumanep)
891	Thailand	4830/6070/7115/	1100	Taiwan	3230/3335/6040/6087/
		9655/11905			7150/7350/9640
	HLKB	2510/3930	1107	Indonesia	5046
	JOHK	3607		China	See Note
900	Papua N.G.	3825/4890	1116	China	3360/7770
909	China	5860		2YK	6105/11945
	Sarawak	4835/7145/9535	1125	Thailand	4830/6070/7115
918	KBS	2510	1134	India	11745/15250
	3YZ	6105/11945			(1215-1315 in CC)
	China	See Note		KBS	2510/3930/5975/6135

1143	VOA	9630/11930/15250	1512	2NA	6090
	KBS	2510/3930/6015/6135		China	3360/5125
	1YW	6105/11945	1521	China	7140/9725
1152	HLCW	2510/3930/6135	1539	KBS	2510/3930/6135
	China	4990	1548	4QD	4920/9660
	USSR	See Note		China	See Note
1161	China	See Note	1575	China	2415/6665
1170	KBS	2510/3930/5975/6135		VOA	9630/11930/15250
1178	China	3220		USSR	See Note, 2nd pgm
1179	China	3940/4980		R. Thailand	9655/11905
1188	JOKP	3607	1591	China	See Note
	China	3970/6840	1593	Papua N.G.	3205
1197	China	6665	1602	China	6665
1200	Taiwan	3230/3335/6040/ 6087/7150/9690	*****		
1206	China	6340/8260	<u>NOTES</u>		
1215	KBS	2510/3930/6135	<u>Australia.</u> The ABC has 3 networks in most states, with feeds originating in the state capital. Networks in different states may or may not be parallel, and sometimes 2 networks in the same state do operate in parallel. Therefore, it may be worthwhile to check any of the following frequencies: 4920,6140, 6090,6150,9610,9680,9660.		
	Indonesia	3295/3250/6134	<u>China.</u> All Beijing I outlets are noted as 6665, which from my experience is the most reliable; other freqs include 3450, 4460,4800,5320,5880,6335,6750,7504,7935, 9064,9080,11290,11330,&15590. Beijing II is noted as 7770, but 4250,4850, & 12200 are other possibilities. Fujian Front I outlets include 5240,5265,&7850; FFS II includes 4380&8195,etal. In addition, there are various provincial, regional & local services. Where no freq is listed, it's not known what //s may exist; try the above freqs & those in the WRTH.		
	China	See Note	<u>Korea(North).</u> R. Pyongyang home service includes 3015,3320,6250,6400. KCBC outlets include 2850,6290,6600,11350. Some local outlets also exist, which may // these stations, consult WRTH for details.		
1224	China	3360	<u>Korea (South).</u> KBS Home Service freqs include 2510/3930/5975/6135. WRTH says these freqs //711. As there are 4 KBS networks, Korean CCB stations may or may not //the SW stations at a given time.		
	Malaysia	4845/6025	<u>USSR.</u> Many SW outlets carry the 1st pgm w/4485 & 5015 the most reliable; others are listed in WRTH. 4485 & 5015 also carry the second pgm at times; see WRTH for other 2nd pgm freqs. "SWBC" means the pgm is carried on many FS freqs. Exact freqs are not known, your best hope is to scan the 49, 41, 25, & 31 meter bands.		
1233	Indonesia	3345/3250	<u>In General.</u> In many cases, the stations listed here are not // 100% of the time. In other cases they're listed only because they're in the same city, etc and might be // at times. There are undoubtedly many errors and omissions in this list but it is hoped it will be of some value to the Trans-Pacific DXer in IDING elusive signals.		
	KBS	2510/2920/6135	Sources: Mike Hardester, Pete Taylor, Phil Bytheway, Nick Hall-Patch, Bill Harms, SPEEDX, NASWA, various DXMs & foreign logs, <u>World Radio-TV Handbook.</u>		
	China	3220			
	China	4990 (Changsha)			
1242	China	6937			
1251	Papua N.G.	3925			
	China	3220			
	USSR	SWBC (see note)			
	Indonesia	4764/4955			
1260	China	3220			
	Malaysia	4845/6025			
	KBS	2510			
1269	KBS	2510/3930/6135			
	China	See Note			
1278	China	See Note			
1287	KBS	2510/3930/6135			
	China	6665			
	Indonesia	2435/4764/4855			
1305	KBS	2510/3930/6135			
1314	China	See Note			
1323	KBS	2510/3930/6135			
	Indonesia	5046			
	China	See Note			
1332	China	6665			
1341	China	6520			
1359	China	6665			
1368	Singapore	7170			
	China	2475/6000/6620			
	USSR	See Note			
1377	China	3200			
	USSR	See Note,2nd pgm			
1386	China	See Note			
	NHK	3377			
1395	China	3220			
	KBS	2510			
1404	China	See Note			
1413	China	See Note			
1422	China	See Note			
1431	China	3360			
	2WN	6090			
1435a	China	2340			
1440	KBS	2510/3930/6135			
	China	See Note			
1449	KBS	2510/3930/6135			
1458	DZOR	11920/9715			
	3YW	6105/11945			
	China	See Note			
1467	KBS	2510/3930/6135			
1476	USSR	SWBC (See Note)			
1485	KBS	2510/3930/6135			
1503	JOUK	3607			
	KBS	2510/3930/6135			
	China	See Note			

# LATIN AMERICAN SHORTWAVE PARALLELS

Bruce Portzner

Many Latin American radio stations operate shortwave transmitters in addition to their medium wave transmitters. These outlets provide regional, national, or international coverage for the stations, augmenting the local coverage of their medium wave outlets. These shortwave outlets usually operate in parallel with the medium wave facilities. As a result, the broadcast band DXer can often benefit from tuning in the shortwave outlet. The following are some of the uses the medium wave DXer can make of shortwave stations operating in parallel with medium wave stations:

- By monitoring the shortwave parallel of a "much-wanted" CCB station, you can become more familiar with the station's programming format.
- If you own two receivers, you can tune in the medium wave outlet on one and the shortwave outlet on the other. In the event the medium wave outlet fades out before ID time, station identification can still be established by announcements made on shortwave.
- Shortwave outlets can be monitored to obtain information on slogans, formats, and schedules of the mediumwave counterparts.

The following is a list of many of the Latin American stations with shortwave outlets. In order to keep the list to a reasonable size, I've listed only the stations which have a reasonable chance of being heard in the U.S. and Canada. \* indicates that the shortwave outlet has been heard in North America recently, per reports to SPEEDX, NASWA, or my own monitoring.

535	Grenada	3300 9550 15045*	880	HJGE	4845*
540	XEWA	6165* 9515 15160*		ZYL275	6000* 15190*
560	Guyana	5950*		OBZ4N	6115
570	YVLX	4970* 9660*	900	XEW	6165* 9515 15160*
	HJND	6180* 9655* 11795*	975	TIRS	6150
		15335*	990	YVTA	4820*
590	YVKL	5030*	1000	XEOY	6008
610	HJKJ	6160*		ZYK522	9505
615	HCMJ1	4910*	1005	HJJR	4945*
620	YNM	5950*	1010	HIJP	4882 15300*
	HISD	5967* 9505		YVQE	4770*
630	YVKA	6170* 15400		OAX4U	6010* 9510
640	TGW	6180* 9760	1020	HJKS	6115*
670	HRN	5875		CP4	9555
690	HCJB	Consult WRTH	1025	HJFT	4785*
	YVMR	4990*	1035	4VEC	9770* 11835*
700	TIHB	6006* 4832*	1040	HJCJ	6065*
710	HJNX	4875*		ZYK693	11765*
715	HRTV	6165		HJBF	4875*
725	Surinam	4850*		YVON	6010*
730	CP27	4875*		YVLB	4780*
	HJCU	6140*	1050	HJLJ	4865*
	TGN	5955* 3300* 9505	1055	HJFZ	6095*
735	HCGC1	3370	1060	KEEP	6185*
740	YVNC	4860*	1070	HJCG	4965*
	HJNS	4818*	1075	TIFC	5055* 6175* 9645*
760	CB76	6150* 9690	1100	YVSW	6120*
780	OAX4X	6020*	1110	HRPL	4920*
	YVOD	4980* 6190*	1120	HICN	4960
810	HJCY	6075* 5075* 5095*	1130	HJFP	4855*
834	Belize	3285*	1175	TIQ	5960*
840	ZYK687	11925*	1180	HJOV	5010*
850	CX16	6155		HIBE	4930
	TIUCR	6098*		YVOR	5040*
	XEUS	6115*	1190	HJOH	6015*
	HJKC	4755*		XEWK	6165* 9515 15160*
854	OAX4A	6082* 9860	1200	HJNF	6120*
860	XEUN	9600		HJBX	4885*
	ZYJ459	4815	1210	YVQZ	6020*
	HILR	11700*		HJFR	6150*
870	LRA	6060*	1220	ZYJ458	11805*
	YVMP	4800*			

# VERIFICATIONS

- 545 DOMINICA, Roseau, Radio Caribbean International, nice letter from Gilles Floret, Chief Engineer, for French report, cassette, mint stamps, quoting in part from the letter: "Radio Jumbo has been sold to Radio Caribbean (head office St. Lucia) and therefore we presently use the 50 kw transmitter on 545 kcs. to relay their programs. The transmitter will soon be tuned to 1150 kcs. and we are planning using a 10 kw on 1210 kcs. soon as well. The tower is a  $\frac{1}{2}$  wave in Roseau. We broadcast in English from 2 to 6 PM local time." (Straus, NJ) (Address is: Radio Caribes, P.O. Box 113, Roseau, DOMINICA - es)
- 594 JAPAN, Tokyo, JOAK, packet of NHK/Radio Japan literature and v/q's for JOAK, JOAB-693, JOIB-747, JOUB-774, and JOLB-1017. My report covered all 5 stations and was sent to NHK headquarters in Tokyo. 2½ months. (Portzer, WA)
- 594 AUSTRALIA, Horcham, 3WV, sent a standard ABC card in one month for report sent directly to the station, but frequency was typed as "590". Looks like they need to update the secretary's instructions. (Portzer, WA)
- 660 MEXICO, Ciudad Delicias, Chih., XEACB, letter in SS w/key chain and postal cards by regular mail. Address: 2A Norte, No. 313, signed by Mario Diaz Cazares, PD. (Nittler, NE)
- 670 ALASKA, Dillingham, KDLG, sent friendly letter from Les Robinson, Station Manager, who said that because of their remote location most of the station personnel are DXers. Also enclosed brochure about station. (Portzer, WA)  
+Nice letter from Les Robinson for reception of 18 March, 1979. Says they were using only 1 kw at reception time. (Hall-Patch, BC)
- 670 VENEZUELA, Caracas, YVLL, Radio Rumbos, sent card w/color photo and printed EE verie statement on back (rather poor EE grammar) for SS report and mint stamps. (Lazar, WI)
- 680 SOUTH KOREA, Gunsan, HLAS, replied in 10 days by letter stating that they were not on the air at the time of my report and that I reported them one hour before they sign on, even though I had a clear taped ID and 50+ minutes of report. Oh well... Reported in EE/KK with mint stamps, letter signer unreadable. (Hardester, Okinawa)
- 680 PHILIPPINES, Manila, DZAS, (FEBC), special 30th anniversary card with all the details, but no signature. Also schedule and booklets. Received per surface in 97 days. (Baker, South Africa)
- 720 CUBA, Colón, CMGN, La Voz de Cuba, sent card with bizarre wavy line pattern and letter signed by J. Miranda, Relaciones Internacionales in 3½ months for SS report. La Voz de Cuba seems to be the most reliable Cuban verifier. (Lazar, WI)
- 747 JAPAN, Sapporo, JOIB, NHK-2, Radio Japan fireworks card, report form and Radio Japan News newspaper for EE report sent to Tokyo. Took 65 days. Earlier report for 750 sent to Sapporo, no answer yet. (Harms, UT)
- 750 JAPAN, Sapporo, JOIB, card with all details except call letters in 22 days for EE report and 2 IRC's. Also sent a pile of brochures. (Korinek, WA)
- 756 NEW ZEALAND, Auckland, IYA, sent card, sticker for IZB-1080 and long interesting letter signed by Barry Hartley, Senior Technician. He said they've gotten 3 report from the US since 11/23/78. (Portzer, WA)
- 770 VENEZUELA, Valencia, YVKK, Radio Nacional de Venezuela, 'almost' a verification. A form letter and card, the latter specifically confirms my reception report of 31 January, but only the short wave frequencies are mentioned. However at the bottom of the form letter this important note has been added; "Our new 1000 kw transmitter is not yet installed and I doubt it will be functioning before the end of the year." (Stanbury, ON)

- 780 AUSTRALIA, Townsville, 4TO, sent a yellow card with a big black heart on the front 5 bumper stickers, 5 smiling face "Have a Nice Day" stickers, and a letter signed by Greg Pearson, Senior Technician. Said they were moving to 774 kHz on 11/23 and that they'd gotten 3-4 reports from North America in the last 10 years. Verie arrived by airmail, report was sent airmail with 3 IRC's enclosed. My first verie in about two years. (Bytheway, WA)
- 819 NEW ZEALAND, Rotorua, IYZ, standard NZBC card in two months. Signer unreadable. (Portzer, WA)
- 830 PHILIPPINES, Manila, DZCA, card via air in 42 days for mint stamps. Verie statement w/callsign and frequency only on back of a color photograph of a flower, shrub, or some such thing. Signer is Monino Segarra, station manager. Address is different than in WRTH: DZCA, Bureau of Broadcasts, Ministry of Public Information, 5th Floor, GSIS Building, Arroceros Street, Metro Manila 2806, PHILIPPINES. (Hardester, Okinawa)
- 896 BARBADOS, Bridgetown, CBC, letter in about three weeks (one IRC), for logging on 896a. Signer is Vic Fernandes. (Now back on 900) (Thomas, FL)
- 1035 CHINA, loc. unkn., First Program Home Service, sent a card and Radio Peking EE schedule (SW only) for aerogram report sent to WRTH address. No signer, but card gives date of reception and specifies frequency as 1030 kc/s, even though I specified 1035 in report. Even so, it's still one of the most specific Chinese BCB veries in ages. (Portzer, WA)
- 1040 HAWAII, Honolulu, KPOI, usual card from Alan Roycroft. He says he's not connected with KPOI, but verified my report anyway. Verie "purists" might prefer writing directly to the station! Alan says KPOI uses a 90' tower which doesn't cover the local area very well, but radiates lots of skywave. (Portzer, WA)
- 1040 SOUTH KOREA, Chun Chon, AFKN, sent inspecific letter with frequency and thanks for report in 21 days. Signer is Gerald J. McDonald, DAC. (Hardester, Okinawa)
- 1060 MEXICO, México, D.F., XEEP, Radio Educación, letter with address: Angel Urraza 622, Colonia del Valle, México 12, D.F. Signed by Ing. Ignacio Espiosa Abonzo. Said was 20 kw when I heard them. Letter in SS. (Nittler, NE)
- 1098 PHILIPPINES, Mandaluyong, DWAD, friendly letter reply in 2 months. Very specific "we confirm that what you heard was exactly relayed from DWAD." Specified 1080 kHz, rather than true 1098 frequency, though. Signer is Iluminado Dumlaog, President. (Peterson, CA)
- 1188 JAPAN, Kitami, JOKP, card and literature from NHK Headquarters in Tokyo. Took two weeks. (Portzer, WA)
- 1190 SOUTH KOREA, Seoul, HLKX, card with full data via airmail in 97 days for mint stamps. Unreadable signer. Colorful card. (Hardester, Okinawa)
- 1196 PHILIPPINES, Surigao, DXRS, letter received in 2½ months for taped tentative sent via an in-law of Charlie Taylor living in Manila, who hand delivered the report to the station owners there. Signer is Sanny Quinto, Account Manager for R. Mindanao Network, stated they listened to the tape and could confirm that it was DXRS I heard, adding that "The announcer... was Charles Paredes, in case you'd like to know." Address on letterhead was: Rms 411-413 Chateau Makati, F. Zobel Street, Makati, Metro Manila (different from address in 78 WRTH). Certainly one of my most prized veries! (Portzer, WA)
- 1330 JAPAN, Nagoya, JOSF, sent card in 23 days for bi-lingual report and mint stamps. card printed in JJ but also said "Tnx for ur rpt". No signer. (Hardester, Okinawa)
- 1375 ST. PIERRE ET MIQUELON, FR3, full data card in 20 days for FF report, cassette, mint stamps. Signer Joseph Blasco, Le Chef d'Établissement. (Straus, NJ)
- 1475 SABAH, Turan, RMKK, Radio Malasia-Sabah sent 3 sided folder card with picture of studio and map of Malasia and SWBC transmitter site and frequencies for EE report with mint stamps. No follow-up sent. Signer unreadable, for director. (Hardester, Okinawa)
- 1555 CAYMAN ISLANDS, Georgetown, Radio Cayman, fast letter in 10 days for country number 45 verified. (Nittler, NE)

- 1566 SOUTH KOREA, Cheju, HLDA, card and letter saying that they don't receive many reports from Canada. This for my tentative report of 12/9, 1978 at 1600. (Hall-Patch, BC)
- 1570 MEXICO, Ciudad Acuna, Coah., XERF, sent card in a meager 670 days for no return postage. The real high point of my DXing career. (Baskind, MS)

## List of Radiobeacons- 510 to 1750 kHz

Compiled by Bruce Portzer. (D) indicates a daytime only operation. (R) indicates the beacon operates only on request.

510	HO	Housan, France	1615	MIL	Quincemal, Peru
	PO	Hsin-Chu, Taiwan		OR	Ohura, NZ
	SN	St. Yan, France	1616	UR	Buro, Sweden
	ST	St. Truiden, Belgium	1619	KL	Klovningarna, Sweden
512	MAM	Matamoros, Mexico	1620	CEP	Concepcion, Bolivia
513	ME	Meythet, France	1623	FAM	Fazenda Amalia, Brazil
514	THN	Thorn, Netherlands		HUM	Humaita, Brazil
515	OS	Columbus, Ohio		PTT	Pto. Trombetas, Brazil
	ETM	Etimesgut, Turkey	1625	TIKX	San Jose, Costa Rica
	LXI	Luxiel, France		ZUI	Ascazubi, Ecuador (D)
	ZR	Beziere/Vias, France		KU	Krogstadsudde, Sweden
516	YWA	Petawawa, Ontario	1635	ORI	Orito, Colombia
518	MC	McMurdo, Antarctica	1638	PRN	Tapuruquara, Brazil
	CRL	Criel, France (D)		SLV	San Javier, Bolivia
	TS	Toulouse, France		URC	Urcos, Peru
519	ALB	Isla Alboran, Spain		ZYL	La Brea, Brazil
520	ONB	Brussels, Belgium	1645	TLC	Tulcan, Ecuador (D)
521	INE	Missoula, Montana		YPI	Yaupi, Ecuador
	ORC	Orange City, Iowa	1650	UIB	Quibdo, Colombia
	GF	Cleveland, Ohio	1655	CIO	Cicuco, Colombia
522	AG	Agen/La Garenne, France		LOJ	Loja, Ecuador (D)
525	KR	Hodeida, Yemen		PAT	Pastaza, Ecuador (D)
	KU	Chiayi, Taiwan	1662	PZA	Puerto Cabezas, Nic.
526	UUP	Uplands, ON	1670	CZU	Corozal, Colombia
530	NB	Nabob, Ontario	1675	BGA	Bucaramanga, Colombia
	YCH	Chatham, NB		UIO	Quito, Ecuador (D)
534	YAW	Shearwater, NS	1685	MAC	Macara, Ecuador (D)
544	LIC	Lichfield, England		DRC	Dos Rios, Colombia
	EVX	Evreux, France	1688	PRJ	Benjamin Constant, Braz.
562	ING	St. Inglevert, France		PUD	Eirunepe, Brazil
	LMG	Limoges, France		DVG	Cucui, Brazil
580	MBR	Mende/Brenoux, France	1690	MDE	Medellin, Colombia
634	LAM	Lambourne, England		ESM	Esmeraldas, Ecuador
670	DCS	Dean Cross, England	1695	TBU	Tibu, Colombia
	STN	Stornoway, Scotland	1698	FRS	Flores, Guatemala
700	DG	Davgavgvira, Latvia (R)	1700	OLM	Olmedo, Ecuador (D)
	SKR	Ostrovsekar, USSR (R)	1704	TNT	Tegucigalpa, Honduras
719	NR	Mys Bol'shoy Lyamchin, USSR	1708	CUE	Cuenca, Ecuador (D)
	NT	Shevedskiy, USSR		PRO	Boca do Acre, Brazil (R)
740	KM	Muscusnove, USSR		PUB	Carauari, Brazil (R)
745	K	Ostrovkamanopasnost, USSR		PVK	Altamira, Brazil (D)
760	J	Ismalia, Egypt	1710	SNG	San Ignacio de Valasco, Bolivia
797	CFD	Cranfield, England		P	S. Jose Campos, Brazil
1580	AGR	Agrinon, Greece (D)	1715	SIS	Puerto Asis, Colombia
	KOZ	Kozani, Greece (R)		BA	Puerto Barrios, Guat.
1600	RS/RN	Selvikurnef, Iceland	1720	LAG	Lago Agrio, Ecuador (D)
1602	LGM	Leguizano, Colombia (D)	1730	LAT	Latacunga, Ecuador (D)
1606	SRE	Sucre, Bolivia (D)	1735	WK	Porto Velho, Brazil
1610	TDA	Trinidad, Colombia (D)	1740	CAN	Canar, Ecuador (D)
1613	RAB	Rabinal, Guatemala	1745	PSO	Pasto, Colombia
	DL	Traslov, Sweden (R)			

# COUNTRIES INDEX

- TP Alaska - 660, 670, 700, 750, 780, 890.  
TA Albania - 1088, 1214, 1395, 1458.  
TA Algeria - 250.95, 529, 548, 575, 891, 1142, 1305.  
TA Andora - 701, 819.  
PA Anguilla - 1505.  
PA Antigua - 1100, 1165.  
PA Argentina - 1030, 1110.  
TP Australia - 531(2), 540, 594, 612, 621, 648, 657, 675, 684, 702, 729, 738, 747, 774, 792, 819, 828, 837, 846, 855, 873, 882, 891, 1026, 1206, 1512, 1548, 1557.  
TA Austria - 1476.  
PA Bahamas - 810, 1240, 1540.  
PA Barbados - 896, 900.  
TA Belgium - 927.  
PA Belize - 834.  
TA Benin - 1475.  
PA Bermuda - 960, 1340.  
PA Brazil - 760, 860, 1220.  
PA British Virgin Islands - 780.  
TA Bulgaria - 747, 1124.  
PA Cayman Islands - 1205, 1555.  
TA Canary Islands - 621.  
TP China - 657, 1035, 1044, 1053, 1125, 1206, 1476, 1512, 1575.  
PA Colombia - 540, 600, 610, 630, 639.8, 656, 660, 690, 700, 720, 730, 740, 750, 760, 770-773, 810, 820, 830, 840, 850, 870, 890, 919, 920, 930, 940, 960, 970, 980, 1000, 1005, 1010(3), 1020, 1025, 1030(2), 1037, 1040(2), 1055, 1070(2), 1080, 1090(2), 1091, 1100(2), 1110, 1120, 1130(2), 1140(2), 1160(2), 1170, 1180, 1190, 1200(2), 1210, 1220(2), 1250, 1290, 1300, 1310, 1340, 1360, 1370, 1420, 1440, 1450, 1500, 1520, 1541.4, 1550(3).  
TP Cook Islands - 864.  
PA Costa Rica - 525.5-527.5, 575, 625, 650, 675, 700, 725, 752-755.2, 775, 800, 825, 875, 925, 975, 1025, 1050, 1075, 1124.6-1125, 1176, 1223-1224.4, 1233, 1420, 1500, 1524.  
PA Cuba - 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 693, 700, 720, 730, 740, 760, 780, 790, 810, 820, 840, 850, 860, 870, 880, 883, 940, 950, 980, 990, 1000, 1020, 1030, 1040, 1059-1060(2), 1100, 1110, 1120, 1130, 1140, 1142.2, 1160, 1180(2), 1190(2), 1200(2), 1207, 1220, 1230, 1250, 1260, 1270, 1290, 1310, 1360, 1400, 1420, 1430, 1470, 1480, 1520, 1530, 1550, 1560.  
TA Czechoslovakia - 1287.  
PA Dominica - 545, 595.  
PA Dominican Republic - 540, 650, 698-699, 730, 830, 860, 890, 1000, 1101, 1120, 1150, 1160, 1180, 1220, 1360, 1380, 1415, 1571.  
PA Ecuador - 605, 635, 660, 715, 735, 805, 826.8, 995, 1100, 1223-1224.3, 1444, 1465.  
PA El Salvador - 574, 655, 765, 770, 780, 1015, 1140, 1155.  
TP Fiji - 639, 684, 711, 891, 1467.  
TA France - 711, 792, 837, 864, 945, 1161, 1206, 1277, 1349, 1377, 1494, 1557.  
TA Gabon - 1554.  
TA Germany, East - 783, 1359, 1512, 1575.  
TA Germany, West - 872, 1196, 1269, 1422, 1539, 1593, 1602.  
TP Gilbert Islands - 846.  
TA Great Britain - 648, 693, 882, 908, 1053, 1089, 1215, 1296, 1458, 1484, 1503, 1548.  
PA Grenada - 535.  
PA Guadeloupe - 640.  
PA Guatemala - 550, 600, 610, 640, 660, 670, 700, 720, 730, 760, 770, 830, 850, 880, 900, 910, 920, 925, 1050, 1090, 1135, 1150, 1180, 1200, 1210, 1460, 1550, 1570, 1613.  
TA Guinea - 1404.  
PA Guyana - 650, 760.  
PA Haiti - 660, 750, 840, 895, 995, 1035, 1080, 1170, 1201-1206, 1385, 1455.  
TP Hawaii - 550, 620, 650, 690, 760, 830, 870, 990, 1040, 1210, 1270, 1310, 1420, 1500.  
PA Honduras - 608.8, 610, 630, 660, 680, 705, 830, 850(2), 870, 880, 890, 930, 944, 1085, 1110, 1163, 1250, 1340, 1365.  
TP Indonesia - 864, 1134, 1206.  
TA International Waters - 1562.  
TA Italy - 846, 899, 1062, 1097, 1115, 1332, 1575.  
TA Ivory Coast - 1493.  
PA Jamaica - 550, 700, 750.  
TP Japan - 531, 567, 594, 657, 666, 684, 693, 702, 747, 774, 783, 819, 828, 837, 873, 882, 891, 945, 954, 1008, 1017, 1035, 1053, 1125, 1134, 1143, 1179, 1188, 1242, 1287, 1314, 1332, 1386, 1422, 1440, 1503, 1593.

TP Korea, North - 635, 655, 725, 784, 785, 820, 873.4, 874.  
 TP Korea, South - 864, 891, 1566.  
 TA Libya - 1611.  
 TA Luxembourg - 1439.  
 TA Malta - 1557.  
 TP Marshall Islands - 1098.  
 TA Mauritania - 1349.  
 PA México - 540, 590, 620, 650, 660(2), 680(2), 690(2), 710, 730, 760(2), 790(3), 800,  
 810, 830(2), 850(2), 900, 940, 950, 960, 970, 980, 990(2), 1000, 1010(2), 1030,  
 1050(2), 1052.6, 1060, 1090, 1110, 1140, 1150, 1170, 1180, 1190(2), 1220,  
 1260(2), 1270, 1300(2), 1310, 1320, 1340(2), 1350, 1370, 1380, 1390(2), 1400,  
 1404, 1410, 1420, 1440, 1470(4), 1480, 1490, 1500, 1530, 1540, 1550, 1560(2),  
 1580, 1600.  
 TA Monaco - 1467.  
 PA Montserrat - 740, 885, 930.  
 TA Morocco - 612, 702, 774, 819, 828, 936, 1044, 1115, 1197, 1232, 1485.  
 PA Netherlands Antilles - 800.  
 TP New Caledonia - 666.  
 TP New Zealand - 567, 657, 675, 756, 765, 819, 837, 864, 873, 882, 1008, 1026, 1035,  
 1044, 1053, 1215, 1476.  
 PA Nicaragua - 540, 555, 620, 660, 750, 780, 840, 860, 1000, 1515.  
 PA Panamá - 710, 740, 800, 825, 840, 860, 870, 1045, 1090, 1340.  
 TP Papua New Guinea - 864.  
 PA Paraguay - 885, 1021.  
 PA Perú - 854.  
 TP Philippines - 1098, 1143.  
 TP Phoenix Islands - 1385, 1386.  
 TA Poland - 1503.  
 TA Portugal - 666, 719, 728, 756, 782, 1034, 1035, 1061, 1062, 1169, 1578, 1579.  
 PA Puerto Rico - 580, 680, 810, 870, 1030, 1520, 1560.  
 TA Romania - 756.  
 TP Sabah - 1475, 1476.  
 PA St. Kitts - 555, 1265.  
 PA St. Lucia - 840.  
 PA St. Pierre-et-Miquelon - 1375.  
 PA St. Vincent - 705.  
 TA Saudi Arabia - 1521.  
 TA Senegal - 765, 1224.  
 TP Society Islands - 738.  
 TP Solomon Islands - 1026.  
 TA Spain - 585, 639, 684, 729, 738, 774, 855, 873, 917, 954, 989, 1025, 1133, 1385,  
 1476, 1503, 1575, 1584.  
 PA Surinam - 600, 640, 725, 914.  
 TA Switzerland - 1566.  
 TP Thailand - 1575.  
 TA Togo - 1502.  
 TP Tonga - 1017.  
 PA Turks and Caicos Islands - 1550.  
 PA Trinidad and Tobago - 610, 730.  
 TA Tunisia - 1521, 1557, 1566.  
 TA Upper Volta - 747.  
 TA U.S.S.R. - 765.  
 TP U.S.S.R. - 585, 648, 666, 783, 1476.  
 TA Vatican City - 1530.  
 PA Venezuela - 540, 600, 640, 650, 660, 670, 700, 710, 720, 740, 750, 760, 770, 830,  
 871, 900, 910, 940, 950, 990, 1000, 1010, 1020(2), 1060, 1070, 1080, 1090,  
 1110(2), 1120, 1150, 1180, 1200, 1210, 1290(2), 1300, 1420, 1430, 1470.  
 PA Virgin Islands - 970.  
 TA West Sahara - 657.  
 TA Yugoslavia - 684, 1295, 1493.

PA - Pan American Section,                      TA - Atlantic Section,                      TP - Pacific Section

Numbers in parenthesis indicate the number of different stations from each country heard on that frequency. If no number, only one station heard on that frequency.

# Contributors

- (Aden, OR) Frank Aden, Jr., Newport, Oregon - HQ-180A w/ four foot wedge, FRG-7 (modified) w/ SM-1.
- (Allchin, New Zealand) John Allchin, Auckland, NEW ZEALAND - FRG-7, Sony CRF-160, QR-666, loop, 25 meter longwire.
- (Arctic) Arctic MV Eko, bulletin of the Arctic Radio Club, SWEDEN.
- (Bailey, MA) Bill Bailey, Holden, Massachusetts - 2 R-390A's, 4 1200' Beverages
- (Baker, South Africa) Denzil Baker, Greyville, SOUTH AFRICA.
- (Baskind, MS) Chris Baskind, Pascagoula, Mississippi - Modified TRF, DX-160.
- (Beauregard, QU) Denis Beauregard, Lachine, Quebec - DX-160, longwire, also DXed at Notre-Dame-de-la-Merci with a Realistic TRF.
- (Bixby, CA) Mark Bixby, Newport Beach, California - FRG-7, 3 foot Wedge.
- (Block, OR) Bill Block, Portland, Oregon - HQ-140XA, FRG-7, Radio West Loop, 100 foot longwire.
- (Brown, MI) Russ Brown, Stevensville, Michigan - SX-122, 1400 foot Beverage at 270°, and 500 foot ground.
- (Bytheway, WA) Phil Bytheway, Seattle, Washington - R-392, SP-600, 3 foot Wedge, 200 foot longwire.
- (Cartwright, PA) Brian Cartwright, Johnstown, Pennsylvania - R-390A, longwire.
- (Cedar, NY) Shaul Cedar, Far Rockaway, New York - Lafayette HA-600, spiral loop.
- (Connelly, MA) Mark Connelly, Arlington, Massachusetts - R-390A/URR, Realistic TRF, Pinto Car Radio, SM-2, MW-1, car whip. Mark also DXes from West Yarmouth, MA - R-390A, Realistic TRF, 2 37 meter phased longwires, MW-1.
- (Curtis, VT) Bob Curtis, Colchester, Vermont - SP-600, longwire.
- (Eckman, PA) Richard Eckman, Philadelphia, Pennsylvania - BC-946/453, Modified HQ-180A, Sanserino loop, SB-620.
- (Everitt, OK) Doug Everitt, Enid, Oklahoma - R-390A, MW-1, RS-460S, SW-4A.
- (Everitt, CA) Doug Everitt, in Antioch, California - Drake SW-4A, Radio West loop.
- (Feltman, PA) John Feltman, Allentown, Pennsylvania - DX-160, R-390A, TRF, SM-2.
- (Foxworth, NY) Bob Foxworth, New York, New York - HQ-150, SM-2A, longwire, SB-620
- (Gerardi, IL) Bob Gerardi, Benton, Illinois - DX-160, Spiral loop.
- (Gradin, OR) Dan Gradin, Cresham, Oregon - HQ-180, 1 1700' and 2 1000' Beverages
- (Grossman, FL) E.H. Grossman, Vancouver, British Columbia - vacationing at Big Pine Key and Homestead, Florida, TRF, SM-2 type antenna.
- (Hall-Patch, BC) Nick Hall-Patch, Victoria, British Columbia - Transmogradio HRO, DX-150A, FET loop, TRF w/Radio West "Shotgun" antenna, longwire, IM 1400 counter.
- (Hall-Patch, England) Nick Hall-Patch, while vacationing in England - TRF.
- (Hardester, Okinawa) Mike Hardester, stationed in Okinawa - SPR-4, FRG-7, Sanserino loop.
- (Hardy, WA) Bill Hardy, Aberdeen, Washington - FRG-7, HE-30, SM-1.
- (Harms, UT) Bill Harms, Provo, Utah - Sony Digimatic Clock Radio, FRG-7, TRF, 3 foot Wedge.
- (Harms/McMillan, ID) Bill Harms, DXing with Mark McMillan, Rathdrum, Idaho - TRF, NC-173, 250 foot longwire.
- (Harms, WA) Bill Harms, Spokane, Washington - FRG-7, 3' Wedge, 150' longwire.
- (Hogan, IL) Mike Hogan, Burnham, Illinois - Realistic TRF.
- (Hutton, GA) Chuck Hutton, Decatur, Georgia - R-390A, HQ-129X, Antennas: (LA) 1900' phased Beverage at 150°, (TA) SM-1, 300' longwire, (DU) 1900' Beverage at 240°.
- (Jackson, CA) David Jackson, Union City, California - Realistic TRF.
- (Korinek, WA) Dave Korinek, Seattle, Washington - SPR-4, R-388, MW-1.
- (Krueger, TX) Joe Krueger, Corpus Christi, Texas - Modified FRG-7, R. West loop.
- (LaFreniere, MN) Paul LaFreniere, Grand Morais, Minnesota - Dymek DR-22, DA-100.
- (Landry, LA) Joseph Landry, Baton Rouge, Louisiana - TRF, 300 foot longwire.
- (Lazar, WI) Bob Lazar, Madison, Wisconsin - FRG-7, SM-2.
- (Lee, CT) Bryan Lee, Brooklyn, Connecticut.
- (Lobel, CA) Albert S. Lobel, San Diego, California - DX-160, Sanserino loop.
- (Martin, CO) Gene Martin, Denver, Colorado - HQ-180, Sony portable, 20x20 inch loop (20 turns).
- (Massey, TX) Daniel Massey, Abilene, Texas - Panasonic RF-2200.
- (McGovern, Ireland) Mike McGovern, Dublin, IRELAND - Philips domestic receiver of 1949 65 foot longwire, 40 inch loop.
- (MWN) Medium Wave News, publication of the Medium Wave Circle, York, GREAT BRITAIN.
- (Miller, MA) Steven Miller, Quincy, Massachusetts - TRF.
- (Mittman, CA) Steve Mittman, San Pedro, California - FRG-7, TRF, 3 foot Wedge.

(Linda Morby, NY) Linda Morby, Ballston Lake, New York - Montgomery Ward 10 band.  
(Roger Mornny, NY) Roger Mornny, Ballston Lake, New York - TRF, HQ-100, dipole, LW.  
(Mount, NJ) Paul Mount, Teaneck, New Jersey - TRF, SM-1.  
(Mount, OH) Paul Mount, Nelsonville, Ohio - TRF.  
(NZDXT) New Zealand DX Times, magazine of the New Zealand Radio DX League.  
(Newell, BC) R. Colin Newell, Victoria, British Columbia - DX-150B, 2 foot loop  
(Nittler, NE) Bill Nittler, McCook, Nebraska - HQ-180A, spiral loop.  
(Pejza, CA) Father Jack Pejza, Modesto, California - SPR-4, Sanserino loop.  
(Peterson, CA) Arthur Peterson, Richmond, California - HQ-180A, FRG-7 w/digital  
readout, SM-1, Radio West loop.  
(Poda, OH) Louis Poda, Akron, Ohio - TRF, Guardian 7700, Kenwood R-300, 60'  
longwire.  
(Portzer, WA) Bruce Portzer, Seattle, Washington - HQ-180A, FRG-7, 4 foot box  
loop, unamplified, SM-2, longwires, SB-620 panadapter,  
KrohnHite 310AB audio filter.  
(Sanserino, CA) Ralph Sanserino, Huntington Beach, California - FRG-7000,  
Sanserino loop.  
(Seaver, CA) Randy Seaver, Chula Vista, California - HQ-180A, Sanserino loop.  
(Segalas, CA) Rich Segalas, San Francisco, California - FRG-7, R. West loop.  
(Stanbury, ON) C.M. Stanbury, Crystal Beach, Ontario - HQ-200, 90 foot longwire.  
(Straus, NJ) Elliot Straus, West Orange, New Jersey - R-390A, HP-524B counter,  
FET loop.  
(SCDX) Sweden Calling DXers, from Radio Sweden, Stockholm, SWEDEN.  
(Taylor, Bermuda) Charlie Taylor, somewhere in BERMUDA - SPR-4, SM-2, 1000' phoneline.  
(Taylor, CA) Pete Taylor, San Francisco, California - Sony ICF 6700W, int. ant.  
(Taylor, Fiji) Pete Taylor, DXing while on honeymoon in Fiji.  
(Thomas, FL) Gerry Thomas, Pensacola, Florida - FRG-7, with digital readout,  
TRF, loop.  
(Tomer, CA) Randy Tomer, McKinleyville, California - HQ-180A, FRG-7, 30 foot  
shortwire, 670 foot mini-Beverage, Radio West Loop. Randy  
also did some DXing in Cambria, California - FRG-7, SM-2,  
Wedge.  
(Townshend, CA) Bill Townshend, Washington, D.C. - DXing done while in Spring  
Lake Beach, New Jersey, and San Diego, California - TRF.  
(Uerlings, OR) Jim Uerlings, Klamath Falls, Oregon.  
(Various, OR) Bill Harms/Phil Bytheway/Bruce Portzer/Dave Bennett, DXing while  
at the IRCA Convention in Portland, Oregon. DXing at Bill  
Block's house - FRG-7, Radio West loop. Also, Frank Aden/  
Bill Block/Bruce and Evelyn Portzer, DXing while at Frank  
Aden's in Newport, Oregon - HQ-180A, Wedge.  
(Williams, OR) Dave Williams, Astoria, Oregon - SPR-4, Collins 75S-3C, SM-1, MW-1  
360 foot longwire.  
(Wilson, CA) Ted Wilson, Fullerton, California - Modified FRG-7, Sanserino loop  
(Wood, NH) Dr. Richard Wood, Plymouth, New Hampshire - SPR-4, 400 foot long-  
wire pointed NW-SE near Ashland, NH.  
(Worst, TX) Mike Worst, Beaumont, Texas - Collins 51J-4, Wedge.

These are the people that made this issue of the IRCA Foreign Log possible. Their DXing and reporting to the DXWW and DXWW-II sections of IRCA's "DX Monitor" provided the material that went into this log. A big thanks goes to all of them. Also, a big thanks is extended to Bruce Portzer, Elliot Straus, and Father Jack Pejza, the people that spent all those hours editing the columns that this edition is based on.

# Abbreviations

a	approximate frequency	GG	German
AA	Arabic	GM	General Manager
ABC	Australian Broadcasting Commission	GMT	Greenwich Mean Time
ACN	American-Contemporary Network	govt	government
addr	address	GSQ	"God Save the Queen"
Ain	American-Information Network	GY	Graveyard frequency
Aen	American-Entertainment Network	h	harmonic reception
AFKN	American Forces Korean Network	het	hetrodyne
AFN	American Forces Network	hi	a laugh
AFRS	American Forces Radio Service	hr	hour
AM	Amplitude Modulation	hrd	heard
ancr	announcer	Hz	Hertz, cycles per second
anmt	announcement	IBA	Independent Broadcast Authority
ann'd	announced	ID	Identification
AN	All-Night	II	Italian
approx	approximately	info	information
AoR	Album oriented Rock	inst	instrumental (music)
ARC	Arctic Radio Club	IRC	International Reply Coupon
AT-40	American Top-40	IS	Interval Signal
BB	Baseball	JJ	Japanese
BBC	British Broadcasting Corporation	jx	jingle
BC	Broadcast	KBS	Korean Broadcasting Service
BCB	Broadcast Band	KCBS	Korean Central Broadcasting Service
BFO	Beat Frequency Oscillator	kHz	kiloHertz, 1000 Hertz
CA	Central America	KK	Korean
CBS	CBS Incorporated	kw	kilowatts, 1000 watts
CC	Chinese	LA	Latin America(n)
CE	Chief Engineer	l&c	loud and clear
cl	classical (music)	loc	location
Corp	Corporation	LPRT	Low Powered Relay Transmitter
cw	country western (music)	LSR	Local Sunrise
cx	conditions	LSS	Local Sunset
DA	Directional Antenna	LW	Longwave, longwire
dB	decibels	ment	mention
DD	Dutch	min	minute
def	definite(ly)	MM	Monday Morning
DF	Direction Finding	MoR	Middle-of-the-Road (music)
DJ	Disk Jockey (announcer)	MW	Medium Wave, megawatt, 1,000,000 watt
DSA	Deep South America	MWN	Medium Wave News
DST	Daylight Savings Time	mx	music
DU	Down Under	NA	National Anthem, North America
DX	Long Distance reception	NBC	National Broadcasting Company
DXWW	DX World Wide	NHK	Nippon Hoso Kyokai (Japanese Broad- casting Corporation)
EBU	European Broadcasting Union	NSP	No Silent Period
EC	East Coast	nx	news
ed	editor	NZ	New Zealand
EDT	Eastern Daylight Time	o/	over
EE	English	OC	Open Carrier
ELT	Eastern Local Time	occ	occasional(ly)
esp	especially	OM	man
EST	Eastern Standard Time	orch	orchestral (music)
ET	Equipment Test	o/u	over and under
et. al.	And all the rest	PA	Pan American
EU	Europe	PFM	Precision Frequency Measurement
Euro	European	pgm	program
eve	evening	poss	possible, possibly
EZL	Easy Listening (music)	PP	Portuguese
FB	Football	PRC	People's Republic of China
FBC	Fiji Broadcasting Commission	Pres	President
f/c	frequency check	prob	probably
FEN	Far East Network	PSA	Pre-Sunrise Authority, Public Service Announcement
FF	French	pwr	power
FL	Foreign Log	QRM	Interference
FM	Frequency Modulation	QRN	Noise
freq	frequency	QSB	Fading
FS	Foreign Service		
geo	geomagnetic		

QTH	Location	temp	temperature
R.	Radio	tho	though
RCN	Radio Cadena Nacional	thru	through
rcvcd	received	til	until
reverb	reverberation	tnx	thanks
rlgs	religious	TP	Trans Pacific
rpt	report	TT	Test Tone
RR	Russian	TVI	Interference from a TV set
rr	rock music	tx	transmitter
RS	Regular Schedule	u/	under
rx	receiver	UFO	Unidentified Foreign Oriental
SA	South America	unid	unidentified
SAH	Sub-Audible Het	unkn	unknown
SASE	Self Addressed Stamped Envelope	UTC	Coordinated Universal Time
sec	second	v	frequency varies, verification
SID	Singing "ID"	v/c	verification by postcard
sig	signal	v/l	verification by letter
sked	schedule	VOA	Voice of America
SM	Sunday Morning, Space Magnet Antenna	v/q	verification by QSL card
		v/s	verification signer
s/on	sign on	w/	with
s/off	sign off	WC	West Coast
SP	Silent Period	w/o	without
SRS	Sunrise Skip	WRTH	World Radio TV Handbook
SS	Spanish	wx	weather
SSB	"Star Spangled Banner"	YL	Young Lady
SSS	Sunset Skip	xlnt	excellent
stn	station	xmsn	transmission
SW	Short Wave	xmtr	transmitter
t	tentative reception	xtal	crystal
T-40	Top 40 (rock music)	?	unknown, unidentified
TA	Trans Atlantic	//	parallel programming
TC	Time Check	@#%&c&	unpleasant, not nice

TIME CONVERSION CHART

All times in this log are in Coordinated Universal Time, (same as GMT), unless otherwise noted. The following chart will help in converting to the reader's own local time.

GMT	ADT	AST	EST	CST	MST	PST	YST	HST
<u>UTC</u>	<u>ADT</u>	<u>EDT</u>	<u>CDT</u>	<u>MDT</u>	<u>PDT</u>	<u>YDT</u>	<u>ALDT</u>	<u>ALST</u>
0000	2100	2000	1900	1800	1700	1600	1500	1400
0100	2200	2100	2000	1900	1800	1700	1600	1500
0200	2300	2200	2100	2000	1900	1800	1700	1600
0300	0000	2300	2200	2100	2000	1900	1800	1700
0400	0100	0000	2300	2200	2100	2000	1900	1800
0500	0200	0100	0000	2300	2200	2100	2000	1900
0600	0300	0200	0100	0000	2300	2200	2100	2000
0700	0400	0300	0200	0100	0000	2300	2200	2100
0800	0500	0400	0300	0200	0100	0000	2300	2200
0900	0600	0500	0400	0300	0200	0100	0000	2300
1000	0700	0600	0500	0400	0300	0200	0100	0000
1100	0800	0700	0600	0500	0400	0300	0200	0100
1200	0900	0800	0700	0600	0500	0400	0300	0200
1300	1000	0900	0800	0700	0600	0500	0400	0300
1400	1100	1000	0900	0800	0700	0600	0500	0400
1500	1200	1100	1000	0900	0800	0700	0600	0500
1600	1300	1200	1100	1000	0900	0800	0700	0600
1700	1400	1300	1200	1100	1000	0900	0800	0700
1800	1500	1400	1300	1200	1100	1000	0900	0800
1900	1600	1500	1400	1300	1200	1100	1000	0900
2000	1700	1600	1500	1400	1300	1200	1100	1000
2100	1800	1700	1600	1500	1400	1300	1200	1100
2200	1900	1800	1700	1600	1500	1400	1300	1200
2300	2000	1900	1800	1700	1600	1500	1400	1300

ADT	Atlantic Daylight Time	PST	Pacific Standard Time
AST	Atlantic Standard Time	YDT	Yukon Daylight Time
EDT	Eastern Daylight Time	YST	Yukon Standard Time
EST	Eastern Standard Time	ALDT	Alaska Daylight Time
CDT	Central Daylight Time	ALST	Alaska Standard Time
CST	Central Standard Time	HST	Hawaiian Standard Time
PDT	Pacific Daylight Time		

# ABOUT THE IRCA

The International Radio Club of America is devoted to the hobby of listening to distant radio stations on the AM broadcast band (540 to 1600 kHz). Its members come from all walks of life and are spread throughout the U.S., Canada, and foreign countries. Membership is open to anyone with a sincere interest in this fascinating hobby.

The IRCA's main activity is publication of DX Monitor, the club's official magazine. DX Monitor is published 34 times a year --- more often than any DX publication in the world. And during the last three years DX Monitor has contained more pages of material on medium wave stations than any other DX club publication.

DX Monitor is divided into several feature columns. Three of these columns appear every issue. The others appear less frequently, usually about once a month. The weekly columns include:

- DX Roundup - recent receptions of medium wave stations in the U.S. and Canada, as heard by club members. DX Roundup is divided into three sections - eastern, central, and western - so you can tell at a glance what members in your part of North America are hearing. DX Roundup reports included signon and signoff times, formats, signal strengths, interference, and other relevant details.
- DX Forum - reports on members' recent DXing activities. DX Forum reports contain discussions on conditions, receiving equipment, radio stations, club activities, and other topics of general interest.
- DX Worldwide - recent receptions of foreign medium wave stations. The tips contained in the loggings sections of this Foreign Log were taken directly last season's DX Worldwide columns.

In addition, the following columns appear in DX Monitor from time to time:

- Broadcasting Information - The latest call letter, frequency and power changes for U.S. and Canadian stations. Information on new and proposed stations. Information on formats, radio programs, network features, and other topics.
- The IRCA Technical Column - Receiver reviews, equipment modifications, construction projects, and hints on getting the most out of your receiving setup.
- Reflections - features on medium wave propagation.
- Spotlight - features on the radio stations in a selected state or province.
- Special Features - non-technical articles on radio stations, DX listening, and recent events in the broadcasting industry.
- DX Worldwide II - information on schedules, power and frequency changes, and other topics concerning foreign stations.
- Verifications signers - recent verifications (QSLs) received by DXers.
- Swap and Shop - classified ads.
- Sports Networks - Tells which stations carry a particular team's games.
- Midday DX Records - Discusses daytime reception on medium wave.
- Graveyard DX records - lists the distance records for each station on local channels (1230, 1240, 1340, 1400, 1450, 1490).

The IRCA conducts DX Contests and issues achievement awards to club members. A Courtesy Programs Committee arranges special late night DX tests, enabling members to hear stations they might not otherwise be able to receive.

The IRCA publishes a number of other publications besides the Foreign Log. The IRCA Almanac contains a wealth of information on domestic stations. The technical handbook (available soon) will cover receivers and antennas, the Principles of Broadcast Band DX provides a brief introduction to the hobby. Nearly 200 reprints of articles on a wide range of topics are available. A complete list of publications, complete with prices, is available for a self-addressed stamped envelope.

Membership dues are as follows: Trial Membership (10 issues of DX Monitor and a copy of "Principles of BCB DX") is \$8.00; Domestic membership (32 issues of DXM and a copy of "Principles..." the first year, 34 issues after that) is \$16.50 annually; Foreign membership is \$20 annually. Sample copies of DX Monitor are 50¢ each. The club address is P.O. Box 21074, Seattle, Washington 98111.

