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TABLE OF CONTENTS

Introduction - - - - -	1
Time Chart - - - - -	1
DXing the Latins, Bruce Portzer - - - - -	2
After Thirty Years, Radio Plan Made Public in Brazil - - - - -	4
Pan American Loggings - - - - -	5
The CARACOL Network of Colombia - - - - -	50
Latin-American All-Nighters - - - - -	51
DXing the TA's, Richard Eckman - - - - -	53
Atlantic Loggings - - - - -	55
A Listing of Ultrastable Transatlantic Stations Suitable for Frequency Reference Purposes, Gordon P. Nelson - - - - -	96
Comments on European Radio - - - - -	97
DXing the TP's, Bruce Portzer - - - - -	98
Time Pips as an Aid to IDing TP's, Nick Hall-Patch - - - - -	99
Pacific Loggings - - - - -	101
Focus on the People's Republic of China, Charles A. Taylor - - - - -	123
Trans-World Radio Guam - - - - -	124
Domestic - International Loggings - - - - -	125
Verifications - - - - -	126
Publications - - - - -	130
Auroral/Geomagnetic Activity and Its Effect on MW DX Reception, Gordon P. Nelson - - - - -	131
Geomagnetic Indices - - - - -	132
Contributors - - - - -	134
Index of Countries and Frequencies - - - - -	136
Abbreviations - - - - -	138

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## INTRODUCTION

One of the most popular columns in the International Radio Club of America's bulletin, DX Monitor, has been "DX Worldwide" (DXWW), listing member's receptions of foreign stations. Several years ago, the idea of preserving the lists of stations heard, for reference material for the next season, was born. The present volume is the fifth in the series of annual compilations.

### GMT

As the times in the Foreign Log Volume 5 is in Greenwich Mean Time, the following chart is provided to help in converting GMT to any other time zone in North America.



GMT	(NDT)	(ADT)	NT	AST (EDT)	EST (CDT)	CST (MDT)	MST (PDT)	PST (YDT)	YST (ALDT)	HST ALST (BDT)	BST
0000	2130	2100	2030	2000	1900	1800	1700	1600	1500	1400	1300
0100	2230	2200	2130	2100	2000	1900	1800	1700	1600	1500	1400
0200	2330	2300	2230	2200	2100	2000	1900	1800	1700	1600	1500
0300	0030	0000	2330	2300	2200	2100	2000	1900	1800	1700	1600
0400	0130	0100	0030	0000	2300	2200	2100	2000	1900	1800	1700
0500	0230	0200	0130	0100	0000	2300	2200	2100	2000	1900	1800
0600	0330	0300	0230	0200	0100	0000	2300	2200	2100	2000	1900
0700	0430	0400	0330	0300	0200	0100	0000	2300	2200	2100	2000
0800	0530	0500	0430	0400	0300	0200	0100	0000	2300	2200	2100
0900	0630	0600	0530	0500	0400	0300	0200	0100	0000	2300	2200
1000	0730	0700	0630	0600	0500	0400	0300	0200	0100	0000	2300
1100	0830	0800	0730	0700	0600	0500	0400	0300	0200	0100	0000
1200	0930	0900	0830	0800	0700	0600	0500	0400	0300	0200	0100
1300	1030	1000	0930	0900	0800	0700	0600	0500	0400	0300	0200
1400	1130	1100	1030	1000	0900	0800	0700	0600	0500	0400	0300
1500	1230	1200	1130	1100	1000	0900	0800	0700	0600	0500	0400
1600	1330	1300	1230	1200	1100	1000	0900	0800	0700	0600	0500
1700	1430	1400	1330	1300	1200	1100	1000	0900	0800	0700	0600
1800	1530	1500	1430	1400	1300	1200	1100	1000	0900	0800	0700
1900	1630	1600	1530	1500	1400	1300	1200	1100	1000	0900	0800
2000	1730	1700	1630	1600	1500	1400	1300	1200	1100	1000	0900
2100	1830	1800	1730	1700	1600	1500	1400	1300	1200	1100	1000
2200	1930	1900	1830	1800	1700	1600	1500	1400	1300	1200	1100
2300	2030	2000	1930	1900	1800	1700	1600	1500	1400	1300	1200
2400	2130	2100	2030	2000	1900	1800	1700	1600	1500	1400	1300

ADT Atlantic Daylight Time  
 AST Atlantic Standard Time  
 ALDT Alaska Daylight Time (ADT)  
 ALST Alaska Standard Time (AST)  
 BDT Bering Daylight Time  
 BST Bering Standard Time  
 CDT Central Daylight Time  
 CST Central Standard Time  
 EDT Eastern Daylight Time  
 EST Eastern Standard Time

HST Hawaiian Standard Time  
 MDT Mountain Daylight Time  
 MST Mountain Standard Time  
 NDT Newfoundland Daylight Time  
 NT Newfoundland Time  
 PDT Pacific Daylight Time  
 PST Pacific Standard Time  
 YDT Yukon Daylight Time  
 YST Yukon Standard Time

DXING THE LATIN  
by Bruce Portzer

Actually, it's pretty easy to hear and identify Latin American stations once you get the hang of it. The following suggestions should help, and some are useful for hearing stations in other parts of the world as well.

The first step is to read DX Worldwide and this Foreign Log very carefully. Check and see what is being heard in your area, at what time it is being heard, and how well and how often. Make a mental note of them or write them down on a sheet of paper and keep it near your receiver. Keep in mind which frequencies are usually blocked by strong domestics. However, don't rule these frequencies out completely as oftentimes auroral conditions can block out strong northern stations and let you hear Latins you would normally not hear.

The best places to listen are between the domestic channels (stations on these frequencies are called "splits"), on domestic channels clear of really strong domestic stations, in the null of domestic clears such as WGN, WLW, etc., or on a small number of regional channels. The Cubans on 590 and 600 are examples of stations you can hear in the latter case. There is no "best" time to listen for Latin American stations. On the east coast they start to come in around sunset and can be heard all evening and all night until local sunrise. Likewise in the midwest or west coast, although stations heard near sunrise are usually just Mexicans.

The important thing to watch for is Latin American music or Spanish talk. Don't be discouraged if you don't hear anything on your first few tries. Conditions can change radically from day to day and some evenings Latins will be pounding in where nothing was heard the night before.

Once you've latched on to a station stay with it, even if it fades out. Like domestics, they have a habit of fading back in again (at least sometimes...). Anyway, the problem now is to hear an ID. Even though you probably won't understand 99% of what you hear, the other one percent is usually an ID. Somehow ID's stick out like a sore thumb. Sometimes you can recognize an ID by the "big production" sound to it or by a change in announcers (if the ID is pre-recorded). Probably the best way to recognize an ID is simply by listening for a few key words. Many ID's begin "Este es..." (ESS-teh ESS), "Aqui..." (ah KEE), or "Transmite..." (trahns MEE teh), and then follow this with the call letters or slogan. At other times just the call or slogan is given.

Many slogans begin with "Radio..." (RAH de yo), "La Voz de..." (La Bohss deh), "La..." (lah), "Ondas de (or del)..." (OHN-das de (dehl)), or "cadena..." (kah DEH nah). "Cadena" is usually associated with a network, since it is the Spanish word for chain. You may also hear the location, frequency, or other information about the station during the ID. Keep in mind that hearing a slogan is sometimes not enough to identify a station definitely. For example, there are about five "Radio Mil"'s on 1000 khz. And hearing a city mentioned may not be enough. It may be a part of a news item or the address of a sponsor. So be reasonably sure you really have a station before you count it in your totals.

Don't be discouraged if you don't ID the station. It happens to everyone, and every seasoned foreign DXer has a long list of mystery stations that haunt his dreams because he couldn't ID them. You may also mis-identify a station, for any number of reasons. While this can be a cause of embarrassment if you report the wrong station to the bulletin, it doesn't mean your reputation is washed up. Unless you start reporting a whole string of catches like Tierra del Fuego on 1400, hi. Most of us have made blunders based on hasty conclusions at one time or another. Just don't think you have a station because it's the most powerful one listed or the closest one listed.

Once you have heard a station, send a report of it to DX Worldwide, even if you can't identify it. If you send as much information as possible on an unidentified station, someone else may be able to tell you who it is.

The following is a list of some of the most frequently heard Latin Americans and when you can hear them:

- |     |       |   |
|-----|-------|---|
| 540 | XEWA  | "Radio X-E-W," San Luis Potosí, México. Evenings, if Canadian interference isn't too bad.   |
| 590 | CMW   | "La Voz de Cuba," Habana. East coast evenings; midwest and west coast all night and Monday mornings.  |
| 640 | CMQ   | "La Voz de Cuba," Habana. Evenings on east coast and midwest; evenings and all night to the northwest with KFI nulled. To California, when KFI is off (0300-0400 (PLT) on Monday mornings). |
| 655 | YSS   | "Radio Nacional de El Salvador," San Salvador, El Salvador. Evenings to 0500 GMT sign-off with what sounds like William Tell Overture, but actually isn't.                                  |
| 660 | XEPRM | "Radio Uno," México, D.F., México. Evenings. Plays lots of U.S. rock and roll.  |

- 670 CMKP "Radio Enciclopedia," Habana. East coast with WMAQ nulled; west coast after KBOI signs-off.
- 750 YNX "Estacion Equis," Managua, Nicaragua. Evenings. Strongest Latin American in Seattle at night. Good in the midwest, on the east coast with WSB nulled. In California, with KCBS or KFMB slop.
- 750 YVKS "Radio Caracas," Caracas, Venezuela. All night after YNX sign-off. Plays U.S. rock and roll.
- 760 CMCI "Reloj Nacional," Habana, Cuba. Heard nation wide with all-news and chimes every minute
- 800 PJB "Radio Transmundial," Bonaire, Netherlands Antilles. To the east coast with CKLW evenings. To the midwest and the west coast with XEROK and Canadians evenings or mornings. Also broadcasts in English and other languages, including Portuguese.
- 810 HJCY "Radio Sutatenza," Bogotá, Colombia. Heard Sunday and Monday mornings on the west coast with KGO off, and sometimes in the midwest and on the east coast with KCMO and WGY interference.
- 825 TIOS "Titania," San José, Costa Rica. Heard nation wide with rock music and frequent IDs by a young woman.
- 834 "Radio Belize," Belize City, Belize. Heard well nation wide with English and Spanish programming.
- 840 HJBI "Ondas del Caribe," or "Radio Libertad," Santa Marta, Colombia.
- 840 HOL80 "Radio Libertad, La Voz de la Revolución," Panama. Both stations can be heard with WHAS interference evenings on the west coast and the midwest, or with WHAS nulled or off on the east coast.
- 880 CMAF Pinar del Río, Cuba. Heard on the west coast nightly over-under WCBS after KRVN signs off.
- 1035 4VEC "Radio 4VEH," Cap-Haïtien, Haïti. Usually on Monday morning when adjacent channels are free. Broadcasts mostly in French.
- 1040 HJCJ "Radio Super," Bogotá, Colombia. Sunday mornings with WHO off.
- 1165 "Caribbean Radio Lighthouse," Antigua. Evenings on the east coast with religious programs.
- 1265 "Radio Paradise," St. Kitts. Evenings on the east coast, Monday mornings on the west coast with English religious programs and gospel music.

The preceding list is by no means a complete one but it does give the beginner a few things to try for. These stations were picked because they are heard often and with good signals coast to coast. Whether or not you get them depends on your own local interference problems. Don't forget to report to DXWV if you do pick one up.

How do you recognize call letters or numbers in Spanish? The following is a pronunciation guide for Spanish letters and numbers:

A	Ah	N	EH-neh	1	uno	14	catorce	70	setenta
B	Beh	O	Oh	2	dos	15	quince	80	ochenta
C	Say	P	Pey	3	tres	16	dieciseis	90	noventa
D	Day	Q	Coo	4	cuatro	17	diecisiete	100	cien or ciento
E	Eh	R	EH-reh	5	cinco	18	dieciocho	101	ciento (y) uno
F	EF-fay	S	ES-sch	6	seis	19	diecinueve	200	doscientos
G	Hay	T	Tay	7	seite	20	veinte	300	trescientos
H	AH-cheh	U	Oo	8	ocho	21	veintiuno	400	cuatrocientos
I	Ee	V	Beh	9	nueve		or veintuno	500	quinientos
J	HO-tah	W	Doh-ble-OO	10	diez	30	treinta	600	seisientos
K	Kah	X	EH-keece	11	once	40	cuarenta	700	setecientos
L	EL-leh	Y	Yeh	12	doce	50	cinquenta	800	ochocientos
M	EM-meh	Z	SEH-tah	13	trece	60	sesenta	900	novecientos
								1000	mil

How to pronounce what you see in print:

B, C, D, F, M, N, T, X	are pronounced the same as in English, except the letter "X" as used in Aztec words in México is pronounced like an "H."
A	is always AH
E	is always EH
CH	is always as in choose
G	as in go except before "E" and "I"
G	before "E" and "I" is like J in José
H	is always silent
I	is like I in police
J	has an H sound, like in José
L	is like L in light
LL	sounds like Y in yard
O	sounds like O in low
N	sounds like NY in canyon
QU	always appears in the following combination of "que" and "qui." The first is pronounced "kay," the latter "key."
R	is like R in three
RR	rrrrrr
S	as in sing except when followed by B, V, D, M, N, L, G, R, when it's as in rose.
U	like U in rude or OO in fool
V	like B in band
Y	like Y in yawn
Z	like S in sign

Words ending in a vowel, N or S, are accented on the next to last syllable. Words ending in a consonant other than N or S are accented on the last syllable. Vowels with an accent mark over them are always stressed.

Syllables are divided as follows: when consonant and vowel alternate, the division is after the vowel (i.e., ma-ma, mu-cho). Syllables are divided between consonants except for PL, PR, BL, BR, FL, FR, TL, TR, DR, CL, CR, GL, GR. Three adjacent consonants are always divided, the last two going with the following vowel (i.e., hom-bre).

The above information should be of use to everyone. It was based mainly on info in the University of Chicago English/Spanish dictionary, plus my own very limited knowledge of the language.

#### AFTER THIRTY YEARS, RADIO PLAN MADE PUBLIC IN BRAZIL

(A translation of an article appearing in the May 9, 1976 issue of the O Estado de São Paulo, of São Paulo, Brazil)

Minister Euclides Quandt de Oliveira of the Ministry of Communications, announced in a press conference yesterday the publication of the basic medium-wave plan awaited by the country since May 24, 1945, when the government promised to work up a general broadcasting plan in accordance with rulemaking of the former Ministry of Transportation and Public Works on May 24, 1945.

The basic medium-wave plan will permit most of the nation's broadcast stations to increase power as well as provide for new frequency assignments to allow for the establishment of at least 349 stations in the North, Northwest, and Midwestern regions, principally in the border areas to prevent the free penetration of foreign broadcasts, according to Minister Quandt de Oliveira.

Stations whose channels are Brazilian exclusive (international channels) will have a minimum of 100, and a maximum of 200 kilowatts. As for frequencies, many can be reassigned to allow greater coverage and penetration of the country. 800 and 980 khz will remain reserved for educational-type stations of Radiobrás (these frequencies are currently used by stations of the Ministry of Education and Rádio Nacional do Rio de Janeiro). The rough draft of the bill to create Radiobrás is expected to be sent to the President within 15 days, according to Minister Quandt de Oliveira.

The medium-wave plan is to be made public within the near future, but its final provisions will only be approved within 60 days, after hearings with industry personnel especially with reference to nighttime powers of broadcast stations. Taking into account propagation conditions, some stations will have no increase in nighttime power. But, on the other hand, because of adjacencies of frequencies belonging to powerful stations, cases of nighttime interference are possible.

Broadcast stations on Brazilian-exclusive channels are regarded as a special class (for example, Rádio Record of São Paulo operates on international channel 1000 khz and would operate with between 100 and 200 kilowatts).

Broadcast stations which have power between 1 and 50 kilowatts belong to class A and transmit in the band between 540 and 1450 khz. Stations belonging to class B will operate in a band between 1450 and 1590 khz with powers of 250 watts to 1 kilowatt. The remaining stations which currently operate between 540 and 1590 khz with various powers, will have a minimum nighttime power of 250 watts and a maximum daytime power of 10 kilowatts.

According to Minister Quandt de Oliveira, Brazil currently has 791 broadcast stations on medium-wave in 512 cities. Taken together, their powers would total 1,300 kilowatts. However, after some time, 861 cities will have broadcast stations with a total of 1,170 for the entire country - a total installed power of 5,000 kilowatts.

The medium-wave plan which will be made public, was drawn up in detail by Engineers Carlos Augusto Schermann, Silvio Domiani and Djarna Ferreira. This completes the industrial plans that compose the national broadcasting plan, since those pertaining to television, tropical bands, and FM, have already been completed. Short-waves will remain reserved for international transmissions by principal stations.

## PAN-AMERICAN LOGGINGS

- 526 <sup>a</sup> COSTA RICA, Cartago, TICAL, w/male SS vocal 0435 1/19. (Connelly, MA)
- 526.7 <sup>a</sup> COSTA RICA, Cartago, TICAL, R. Rumbo noted 1110 12/22 w/very weak signal in SS. Finally got it here. (Peterson, CA)
- 527 <sup>a</sup> COSTA RICA, Cartago, TICAL, R. Rumbo noted about here 9/7 PM. You'd think they'd move to one of the open spaces left by the recent allocation change, since many receivers can't pick them up. (Schatz, FL)  
 †fair w/slow male SS vocal and interference from "UUP" beacon 0455 3/15. (Connelly, MA)
- 535 ● GRENADA, St. George's, R. Grenada, fair-good some nights (weekends when home), e.g. 0030 10/14 w/discussion/council meeting, 0115 10/18 w/call in show. Much interference from beacon YAW-534, TV sets. Signal stronger than ever noted before, sometimes as good as ZI2-555. Perhaps has boosted power but modulation still shallow and mushy. (Foxworth, NY)  
 †finally logged w/audio early eve 10/25 w/accented woman and Calypso mx. Used to be just an OC here. (Schatz, FL)  
 †in w/fair signal, relaying the West Indies-Australia Test Matches (cricket) and ran until 0724 12/2 w/game from Brisbane, I believe, local ID 0728 and s/off 0730. Gave dates for more test matches but not hrd clearly enough to tell which dates. Signal ranged from poor to fairly good here. (Foxworth, NY)  
 †hrd Sunday evening here at 0214 12/8 w/what appears to be their regular s/off after classical mx pgm and short religious item. This stn is being noted more consistantly here this season though usually not as well as ZI2. Listed 800 w, they sound more like several kw, but usual weak audio. (Foxworth, NY)  
 †w/cricket again 0700 1/3, also 0530 1/4. (Foxworth, NY)  
 †tent here 1/26 0130, very weak signal w/classical mx (or at least all MoR instrumental), some talk, but impossible for me to make out. (Cartwright, PA)  
 †2/9 first noted 1021 w/religious mx, time checks and ID 1025, nx 1030, beautiful ID after nx 1037. Only second time I have found a carrier here and a first for audio! As strong as the other Caribbean outlets hrd this morning. (Keeney, KS)  
 †poor-fair w/EE talk, then orchestral mx, hetted by beacons. 0147 2/16. (Connelly, MA)  
 †3/1 0340-0500 poor w/live broadcast. Mx, anmts. (Moss, TX)  
 †w/man in EE at very weak level w/bad noise 2331 3/13. (Connelly, MA)
- 535 MEXICO, San Luis Potosí, S.L.P., XEWA, 3/1 0327 noted off frequency w/good S-10 signal. Not audible on 540 u/CBK. Later check and XEWA still on 535. (Lobel, CA)
- 540 ● COLOMBIA, Bogotá, HJKA, Latin mx w/several "Horizonte"'s taped o/SS interference and misc noise 1/1 0818. (Jones, NJ)  
 †w/soft MoR mx MM 2/16 0725-32, "R. Horizonte" ID at 0730. (Pejza, CA)
- 540 DOMINICAN REPUBLIC, Santo Domingo, HICM, caught "ah beh ceh" ID on tape through heavy SS interference 12/31 0430. (Jones, NJ)
- 540 ● ECUADOR, Guayaquil, HCFA2, Latin mx w/R. Tropicana IDs, had to replay tape to convince myself he didn't say "horizonte". Lots of interference 1/1 0750. (Jones, NJ)  
 †good here w/Latin mx, man and woman talking, then clear "Acheh ceh effeh ah dos" ID 0925 1/19. (Portzer, WA)
- 540 MEXICO, San Luis Potosí, S.L.P., XEWA, hrd 1237 10/6 u/CBK. Male ancr, could not tell what he was saying, CBK was too strong. (Lobel, CA)  
 †booming in 10/12 0530-40 w/"La Hora del Ranchera", several ads, ID as XEW (Ball, ON)  
 †w/slogan "La Voz de América Latina" and ranchoero mx 12/13 // XEW-900. (Keleher, IN)  
 †dominating frequency 1/7 0545 w/Latin mx, then lengthy credits, then s/off for repeaters. XEWA and several others have made chaos of 540 for

- about a week during evenings. (Jones, NJ)
- 41/12 0450. Is 1272 miles at 150 kw a local or is 2 miles at 5 kw a local? This was rivalling local KDEO-910 and pinning my S-meter. 0445 female announcer followed by fog horn, then several flute-like instruments. Sounded like African mx (probably wasn't). Followed at 0446 by male announcer. (Lobel, CA)
- 4hrd 1/19 0127 w/ID as "XEW". (Nall, KY)
- 4w/ranchero mx, IDs as "XEW" 0658-0710 2/29. (Ball, ON)
- 540 NICARAGUA, Managua, YNOW, R. Corporación, 11/9 0359 on top w/XEWA (I suppose) looped. (Nall, KY)
- 41/22 0301 w/"R. Corporación" ID and spots, one for "San Martin" (product, I think) and another for someplace "en Managua," XEWA nulled. (Keleher, IN)
- 4noted w/anthem, then s/on anmt 1003 12/22. (Portzer, WA)
- 4poor-good strength but ragged as if fighting somebody's OC. (The LPRT's? ed) R. Corporación ID at 1110 12/30. Ranchera mx. On playing tape over found another ID at 1050. WRTH says they s/on at 1100. (Hall-Patch, BC)
- 4R. Corporación good w/Central American nx (man in SS) 0553 2/15. W/frequent R. Corporación IDs, then male SS vocal 0140 2/16. (Connelly, MA)
- 540 ? UNID, noted here w/sedate SS vocals and man DJ 1005-20 7/19. Who? (Rittenhouse, CA) (YNOW most likely - ed)
- 4SS jingles here 2300 12/21 o/u CBT, did not sound like Horizonte, HJKA. (Connelly, MA)
- 4SS stn here on 3/7 at 0305 u/a mess, definitely not XEWA or my Canadian stn. Reception was very difficult so no pgm details were logged. Any ideas? (Hogan, IN) (Several possibilities - YNOW, HJKA, HICM and HCFA2 are the most likely candidates - ed)
- 545 t DONINICA, Roseau, R. Jumbo, suspected as source of OC at good level 0230 6/2. (Connelly, MA)
- 549 ? UNID, SS talk, mush mx at fair level, wedged in here between stronger Algeria and CFNB 0205 3/14. What a mess!! (Connelly, MA)
- 550 JAMAICA, Montego Bay, RJR, hrd w/promo, jingle, 0012 11/8, weak but above jumble of SSES and fairly clear. Cuban took over later. WGNG nulled. (Foxworth, NY)
- 550 VENEZUELA, Caracas, YVKE, o/WGNG w/"Mundial" IDs (very scratchy audio), then mx 0813 2/15. (Connelly, MA)
- 555 SAINT KITTS, Basseterre, R. ZIZ, given w/much rr and soul mx 0025 11/5 w/man between songs. Good signal. (Abraham, MI)
- 4best signal ever noted from ZIZ 0205-0300 s/off 11/5 during heavily auroral cx. Soul mx pgm w/man DJ who never gave an ID, s/off 0300 w/canned s/off message by woman. Even audible on portable rx. (Nelson, MA)
- 4hrd w/DJ show, seemingly running all night 12/2, still going past 0730 w/lots of calypso and soul. Did not hear them mention the test matches, but maybe they were on to provide coverage of them. Could not hear any stations other than 535, though, that DID have test matches (w/possible exception of Trinidad-730 but could not tell through jumble). ZIZ's signal was pretty good here, just as their normally all night OC is hrd well often. (Foxworth, NY)
- 40255 12/13 w/anmts ending mx pgm, then hymn by woman and s/off 0259 w/"This is radio station Zed-I-Zed, on Saint Kitts." New for me, tough due to splat from WKRC-550 in same direction. (Keleher, IN)
- 4source of potent OC here 0550 12/22. (Connelly, MA)
- 4potent w/woman in EE 0100 1/13. (Connelly, MA)
- 42/9 only second time I've ever hrd audio here, hymns at 1018. I checked for Grenada as soon as this was hrd. (Keeney, KS)
- 4fair-good w/BBC style nx (man in EE), some noise, 0206 3/14. (Connelly, MA)
- 4good w/slow Caribbean mx w/heavy drum beat, then fast talk EE DJ like on black US stns, bits of songs were interspersed w/the talk 0231 6/2. (Connelly, MA)
- 560 GUYANA, Georgetown, GBS in clearly 0800-0900 11/8 newscast in EE 0900. "Action Radio" and was better here than // on 3290. (Foxworth, NY)
- 560 JAMAICA, Kingston, JBC all alone 2306 1/12 w/BBC World Service News, 2309

commentary, and 2315 regional nx in EE. Disappeared totally 2306 as WIS took over. (Allinson, NC)

- 570 ● CUBA, Santa Clara, CMHI, o/u WMCA w/SS talk // 590/600 at 0555 on 2/15. (Connelly, MA)
- 570 ● VENEZUELA, Villa de Cura, YVLX, R. Rumbos 0500 10/8 u/WMCA but readable since WMCA is talk, caught ID, R. Rumbos, s/off w/NA 0504. (Curtis, VT)
- 575 ● COLOMBIA, Bogotá, HJND, R. Nacional noted here 0200 10/8 w/good signals. Was // 4945 at 0220 check. (Stanbury, ON)  
♦ R. de ??? de Colombia in all evening 10/8, 0000-s/off at 0458. Poor at first but good 0115 on, taped IDs, but I no speak SS. Man and woman ancr hrd Republica de Colombia, chimes at ID, concert type mx w/little opera, play 0135-0200, sounds like real high class stn. What is it? In again 10/9 but not as good. (Curtis, VT) (see also 576 - ed)
- 575 COSTA RICA, San José, according to August 1975 Short Wave news, Sovereign Broadcasting Corporation is testing the one megawatt transmitter on this frequency at reduced power. (Taylor, IN)  
♦ "R. Cucú" (Cuckoo), ex-Cadena Musical, 10/18. (Schatz, FL)  
♦ "R. Cucú" ID and cocoo IS logged 0220 11/20. Does not seem to be the high powered unit reported testing here. (Stanbury, ON)  
♦ w/R. Cucú ID and cuckoo clock sound cutting through the slop at 0415 on 1/19. (Connelly, MA)  
♦ atop low pitched hets (Algeria, West Germany, et al) w/slow SS mx 0617 3/14. (Connelly, MA)
- 576 576 COLOMBIA, Bogotá, HJND, R. Nacional de Colombia noted here in mid-October but since returned to 570. Varied 574-576 and way o/Cucú. // 680 and shortwave. Cali-580, by the way, has never been confirmed as on and probably isn't. (Schatz, FL)  
♦ hrd a couple of nights around 10/13 w/opera, transcribed pgms in SS. Gongs. 0456 and s/off w/Colombian NA 0458. Hrd "Radiodifusora..." once but IDs were few and far between. Think was Nacional stn. Only noted 2 nights and is not being hrd now. Auroral cx that night helped a lot. (Foxworth, NY)
- 580 MEXICO, Chihuahua, Chih., XEFI, 10/17 0353 w/R. Mexicana ID heard in KXJ null. (Lobel, CA)  
♦ heard 1240 10/27. Probably this one w/mentions of Chihuahua. Mucho KLAC slop. (Lobel, CA)  
♦ 3/1 1215 w/R. Mexicana ID and mention of Chihuahua. (Lobel, CA)
- 580 ● PUERTO RICO, San Juan, WKAQ, w/SS pops, "WKAQ, Más Música" jingle 0738 11/3. (Keleher, IN)  
♦ good 0525 2/16 w/EE rr, "WKAQ, Más Música" jingle, 0530-0600 all instrumentals on top of frequency w/rock under. 0601 another "WKAQ, Más Música" jingle, "Love to Love You Baby", then back to E.L. 0606. A bit tough w/local WMCA-570 nulled. (Mount, NJ)  
♦ fair, mixing w/WTAG, another Latin and an FFC, low het present, WKAQ had ID jingle and SS mx 2355 3/13. (Connelly, MA)
- 580 ● VENEZUELA, Maracaibo, YVMJ, noted atop low growl of hets w/YV network pgm // 700/740. It seemed to be a telethon type benefit show for a hospital, the "Clinica de San Rafael." Woman in SS read long list of announcements audience cheered after each one 0558 2/15. (Connelly, MA)
- 590 ● CUBA, San Antonio de las Vegas, CMW, on 11/3 0459 loud on top w/IS. (Nall, KY)  
♦ 0759 11/3 w/La Voz de Cuba ID, talk 0800, then faded. KUGN interference looped out. (Orren, WA)  
♦ o/u WEEI o/HJCR/VOCM. Man and woman in SS alternating at 0614 12/21. (Connelly, MA)  
♦ 2/9 0235 presumed to be the one hrd w/man talking about Cuba and Castro. No KOGO slop but mucho KFXM interference. (Lobel, CA)  
♦ o/u WEEI, // 570/600 0605 2/15. (Connelly, MA)  
♦ 0845 3/8 w/SS mx and Tony Bennett, ID in SS at 0859 by woman and man w/R. Habana jingle and "Free Territory in America." (Gerardi, IL)
- 595 ● DOMINICA, Roseau, was the best signal yet this year 0025 10/13 and continued until 0230 s/off. Format still same as last season.

(Foxworth, NY)

\*10/26 0158 w/calypso mx, BBC nx on hour, then rock mx pgm. Now uses slogan "DBS radio" for Dominican Broadcasting Service, mentioned at s/off 0229. This station has a fair carrier here even on not-too-auroral evenings, but modulation poor at times and CMW splat painful.

(Keleher, IN)

\*EE man w/religious talk, Caribbean accent, 0100 12/4, too much line noise for report. (Colyard, NJ)

\*R. Dominica on w/cricket 0700 1/5 along w/535, but 595 does not carry every match, whereas 535 seems to carry them all. (Foxworth, NY)

\*here 1/19 0159 w/MoR mx and EE announcer. BBC World News on hour. Good carrier, poor audio. (Nall, KY)

\*this one has been noted in the local FF patois around 2300 or thereabouts so is not 100% EE. (Schatz, FL)

\*fair w/Brasil 66 mx, then talk, 0153 2/16. (Connelly, MA)

\*fair w/BBC nx, then local ads, followed by fast Latin influenced mx 0208 3/14. (Connelly, MA)

- 600 **C** COLOMBIA, Barranquilla, HJHJ, R. Libertad in clear, Cuban must have been off, 0703 11/9 w/2:04 time check after long salsa mx cut. Nice signal and good listening, no fading. (Foxworth, NY)
- \*at local strength way o/Cuba w/loud reverb SS IDs mentioning R. Libertad and 50 kw power, then fast Latin mx 0557 1/11. (Connelly, MA)
- \*alternating w/Cuba, had SS male vocal, Cuba had SS talk by man, bad low het present, 0214 3/14. (Connelly, MA)
- 600 **C** CUBA, San Germán, CMKV, 8/24 0410-30 w/pgm of slow songs, R. Habana Cuba mentioned often. Began LV de Cuba talk pgm 0430. 590/600/630/640 all // for this. (Keleher, IN)
- \*11/4 0527 w/"R. Habana Cuba" ID, well atop channel. (Nall, KY)
- \*fair-poor u/GJOR et al 0650 11/6 w/Cuban mx and SS talk. IDed by checking 590 for //. (Portzer, WA)
- \*// 640/590 way u/KOGO/GJOR 12/1 at 1002. (Bytheway, WA)
- \*o/presumed HJHJ, man and woman in SS // 590 0615 12/21. (Connelly, MA)
- \*strong w/man in SS talking about Cuba's relations w/other countries in Latin America 0605 2/15. (Connelly, MA)
- \*weak u/GJOR w/some sort of flute mx // 590 0622 4/26. (Portzer, WA)
- 605 **?** UNID, slow male SS vocal here, poor-fair 0607 2/15. (Connelly, MA)
- 610 **C** COLOMBIA, Bogotá, HJKL, likely the SSer here o/u WIOD w/frequent mentions of Colombia, 611 het present 0610 2/15. (Connelly, MA)
- 610 **P** PARAGUAY, Chaco Paraguayo, ZP30, New. "La Voz de Chaco Paraguayo," 10 kw operates 0900-1100, 1530-1700, 2200-0015. Paraguay begins DST (UTC-3) 1 October, 1975. (SCDX)
- 610 **T** TRINIDAD, Port-of-Spain, logged w/some difficulty 11/25 at times between 0110 (when first tuned in after noting 730 at good level) and 0402 s/off. Auroral cx strongly favored reception, but lots of fading nonetheless. Quite a bit of interference, mainly from WIOD, presumed Colombian around 0300 and WAYS, along w/WIP. Had mixture of MoR mx, slow 50s rock hits, woman ancr who was nearly unintelligible (there's also a girl on WIOD, this wasn't her), wx forecast on half-hour agreeing w/WRTH and definite ID as Port-of-Spain, Trinidad and Tobago taped. Besides "Radio 6-10" they used another slogan which may or may not be "Radio Guardian", I did not definitely hear this slogan and don't know if in use. Recheck at 0359 (after long period of no reception) found girl reading nx, still poor copy, then brief devotion and into anthem at 0402. No s/off announcement was copied, but if the girl did it, it was unreadable. Promo, done during nx, w/man's voice plugging "the newsroom of 6-10", was hrd OK. Haven't seen this one reported since they did a DX test and were hrd in Texas about 15 years ago. (Foxworth, NY)
- \*hrd again here briefly on 11/26 at 000:50 w/brief ID, 8 PM time check and time pip about 50 seconds late. Then into pgm about improving agricultural production sponsored by the agriculture commission of Trinidad and Tobago. Lasted briefly in continuing auroral cx, not hrd later though. (Foxworth, NY)
- \*at times have noted this one s/on w/"Yellow Bird" at 0900 w/local WIOD nulled. Congrats to Foxworth!! (Schatz, FL)

- 620 **COLOMBIA**, Cali, HJEL, atop low growl of hets w/R. Ciudad de Cali ID, time check 0309, 0809 2/15. (Connelly, MA)
- 625 **COSTA RICA**, San José, TIXE, R. Omega, in nicely 1/1 0734-45 w/several Omega IDs, unusually accurate time checks, e.g. "La uno, cuarenta minutos y cincuenta-siete segundos en Omega", mention of Costa Rica, het from WMAL-630. (Ball, ON)
- +w/US and SS pops and R. Omega ID 0244 1/6. Often good here lately. Yell "Omega" during songs in the manner of Titania-825. (Keleher, IN)
  - +w/brassy disco-rock mx, "Omega" said o/it 0430 1/19, slopped by WPRO. (Connelly, MA)
  - +many time checks, SS snmts, EE and SS mx, record "Fly Robin Fly", many IDs 0100 1/25, good signal. (Colyard, NJ)
  - +fair w/R. Omega ID, SS rock, 0436 2/16. (Connelly, MA)
  - +R. Omega mentioned by man, then slow SS vocal, signal good 0440 3/15. (Connelly, MA)
- 625 **COSTA RICA**, San José, R. Millón, in w/bodacious signal on DX test 3/8. First noted 0650 through heavy KIDO-630 slop, loud and clear after KIDO s/off 0706. Pgm consisted of chirping noises and short tones, interspersed w/EE, SS and PP IDs. (Portzer/Bytheway, WA)
- +R. Millón test hrd from 0710 to 0730, then KXOK test from 0730 to 0800 blanked it out. R. Millón hrd excellent 0800-0818 3/8. (Gerardi, IL)
  - +R. Millón test hrd easily here 3/8. (Nittler, CO)
  - +3/8 0708-27 tune-out, in fine for DX test. KIDO-630 left the air 0706 followed shortly by the distinctive beeps and IDs in SS, EE and PP. Beeps were audible on the sidebands, on 630, and on 620 through KGW's talk show!! Signal almost as good as a domestic here. This one may become easier than PJB-800 if they keep this up. (Bill and Nancy Hardy, WA)
  - +3/8 DX test pushed through WETE-620's sidebands w/fair signal and occasional "R. Millón" ID by female. Programming sounded like Moog-synthesized bird songs. (Francis, TN)
  - +R. Millón 3/8 0741 great on test. Man in EE and woman in SS and PP. R. Millón IDs, lots of slop from KTAR-620 and KHOW-630. S-9 on HQ-180, 26 db o/S-9 on SPR4. Also said testing on short wave on 9615 khz. (Hanavan, CA)
  - +0600 3/8 w/scheduled test. In w/S-9 signal despite KTAR-620 not signing off per info in NRC log at 0200 EST. Was quite suprised at the address of a prominent IRCA/NRC member (Ron Schatz) being given as person to send reports to, mine is out (a taped report). Hope the FCC was listening to that one and got a good dose of what a high powered transmitter is capable of. (Lobel, CA)
  - +3/8 0552 loud and steady w/EE ID by man, then SS ID by woman, signal faded amid rapidly varying TT which followed. Little splash from 620 or 630. (Hall-Patch, BC)
  - +Test from R. Millón hrd OK MM 3/8. OC 0600, programing hrd 0610 through tune-out 0735, repeating anmts in EE/SS/PP and rapid audio sweep oscillations making a "bird Chirp" effect. Certainly as good a Costa Rican signal as ever hrd here, but did not quite seem like a megawatt. Shallow modulation too, and moderate fading, several carrier breaks noted, e.g. 0703. Reception was generally about as good as R. Paradise is normally hrd here, WPRO splash a problem. Reported to the Florida address given. Not hrd since, though haven't really tried. The previous night, Omega-625 was hrd w/normal signal and programing. (Foxworth, NY) (Ron Schatz told me that the R. Millón owners had worked out a special deal w/the owners of Omega to use 625 for this night only - ed)
  - +in like a mad dog 0700 3/8. Not related to R. Omega, TIXE. (Taylor, IN)
  - + (note: this station tested for a once only purpose on 625. It has since moved to 1560 khz where it plans to start broadcasting sometime in the future)
- 625 **UNID**, in SS 1135 12/22. Has to be Perú or Costa Rica. After dawn in Perú but this hrd prior to Costa Rica's listed s/on. Anybody help? Perhaps the Costa Rican on early or NSP for Christmas? Programing sounded like a Mexican. KFRC off. (Peterson, CA)
- 630 **CUBA**, Santa Clara, CMHQ, w/anmt "R. Liberación, desde La Habana, Cuba, primero..." etc. 0232 12/8. Then mentioned "teatro" and drama followed // 640. (Keleher, IN)
- +1/3 0400 w/good R. Liberación ID, etc. (Jones, NJ)

+1/5 0630 w/ID as "esta es La Voz de Cuba" after usual IS. Very strong and alone on top. (Nall, KY)  
+way o/WPRO w/male SS talk about Angola // 640 0612 2/15. (Connelly, MA)  
+mixing it up w/semi-local WPRO, SS talk // 640 0258 4/2. (Connelly, MA)

- 640 ARGENTINA, Unlisted in WRTH is R. Nacional, in Rio Grande, Tierra del Fuego, here, soob w/50 kw. (ADXCI)
- 640 ● CUBA, La Habana, CMQ, was in w/singing during KFI silent period 1050 9/1. Static was moderate, good signal. (Peterson, CA)  
+fair 0645-0700 classical and Latin mx 9/6 man and woman ancrs, tones and ID 0700 "La Voz de Cuba, Habana, Cuba". (Curtis, VT)  
+w/KFI off 1019 9/8, mentions of Habana, mx. (Pejza, CA)  
+poor 0515-30, talk mentioned "Fidel", ID at 0530, hrd "La Voz de Cuba" twice, 9/26. (Curtis, VT)  
+excellent 10/12 0420 w/light mx, 0430 time check, chime IS and ID "Esta el sintonia con R. Liberación, desde La Habana, Cuba, primer territorio libre en América, en el año del primer congreso." (Ball, ON)  
+surprisingly good, KFI taking heavy fades 11/1 0840. (Heald, CA)  
+11/3 0449 alone on top w/R. Liberación ID. (Nall, KY)  
+12/15 0200 w/ID and slogan taped, very strong signal. (Hogan, IN)  
+12/29 1110 good S-8 signal w/KFI off. Hrd mention of Habana. (Lobel, CA)  
+was off 2/4 at a check 0545-0645. It was probably them w/the heavy carrier on the frequency, but no audio. W/the carrier nulled, KFI in at times like a local. There was an Unid SS noted to the SW, could've been the Guatemalan, but not positive. (Cartwright, PA)
- 640 ● ECUADOR, Quito, HCXY1, possibly the one here w/R. Nacional ID o/u Cuba, mentioned short wave frequencies, then NA and s/off 0605 12/21. (Connelly, MA)  
+R. Nacional de Ecuador through CMQ 1/22 0211 w/a nx report and time check and then ID 0211. Into a soccer game between Guatemala and Brasil, some mentions of R. Nacional during the game. Peaked 0220, then started to fade out completely by 0250. (Cartwright, PA)
- 640 ● SURINAM, Paramaribo, RADIKA, was hrd w/s/on 0902 11/8. There was about 3 hz SAH against Cuba. They play a brief anthem, then a long pause and into what seems to be a devotional or similar, in Hindi. No formal s/on amt was hrd on any of several occasions (at different times of day each time hrd) that this station has been hrd to s/on. Had a fairly good signal, too. This was a SatM and may have been half hour later than weekday s/on, too. (Foxworth, NY)
- 640 ● VENEZUELA, Puerto la Cruz, YVQO, atop CMQ/CBN w/Onda Porteña ID by man in SS 0053 4/2. Totally dominant w/SS talk, ID, light mx, 0420 4/2. (Connelly, MA)
- 645 ● PARAGUAY, Coronel Oviedo, ZP19, R. Caagazú was nice level 0645 1/5 hetting BBC-647 which was also in. Unusual to see them both in at once so well. (Foxworth, NY)  
+poor-fair w/SS mx, w/operatic male vocal and vigorously-strummed guitar, then SS talk 0620 2/15. Muffled, reverberated SS talk at fair level 0430 2/16. (Connelly, MA)  
+ID in passing noted at 0740 4/21, faded completely out and partly in, poor at best. (Hauser, IL)
- 648 v? UNID, jammer of some sort noted during Latin opening. Carrier started at 646 ascending to 650 in 20 seconds, off for 10 seconds, then on 648 rapidly oscillating about the frequency plus 200 hz for 3 seconds, then descending to 646 in 12 seconds. The carrier would then rise to 650 starting another cycle, total cycling time about 45 seconds. This is the same Unid noted 2120 12/12/75 reported in 1/5 IDXD. The recent reception noted above was on 4/1 at 2350. (Connelly, MA)
- 650 ● COLOMBIA, Bogotá, HJJK, Monserrate ID after chimes 0400 12/12. American instrumental mx before and after the hour. Strong at times but troubled by electrical noise. No WSM. Think another SS on channel and hrd whistle IS at 0345. Notes were E-C#-E-C# for you musicians. Was this HJJK or the Unid one? (Hall-Patch, BC)  
+1/5 MM 0642 IDing as "Monserrate". Alone on top of frequency. (Nall, KY)  
+1/5 0640 and again 0830 w/Latin mx and Emisora Monserrate ID w/WSM off. Very strong w/fading, sounds like more than 10 kw listed. (Jones, NJ)

- 650 COSTA RICA, San José. TIBAS, R. Monumental good w/some interference and mx, time checks and R. Monumental IDs 1032 7/5. (Clements, CA)
- 650 DOMINICAN REPUBLIC, Santo Domingo, HIAT, dominant w/phone-in-show, man in SS, IDs w/reverb, disco-rock in background, then SS mx was played 0548 2/15. (Connelly, MA)
- 650 MEXICO, Los Mochis, Sin., XETNT, w/mx and SS talk 11/3 MM 1308, lots of sloop from KFI. (Pejza, CA)  
 \*w/SS talk and ranchera mx 2/28 1230. (Pejza, CA)
- 650 VENEZUELA, Maracay, YVLH, "R. Visión" hrd at 0902 was this station, hrd at s/on 10/27. Tried again 11/3 0859 and station here, already into RS, u/WSM ET who went off just then. In next several minutes hrd several mentions of Venezuelan towns such as Maracay, ads w/prices in bolívares, and 2 R. Visión IDs. Had a nice signal again this week w/cx favoring South. (Foxworth, NY)  
 \*R. Visión repeated again and again w/a different SS sentence after each, this was followed by a canned jingle 0200 2/16. (Connelly, MA)  
 \*good w/R. Visión ID jingles, SS talk 0301 4/2. (Connelly, MA)
- 655 EL SALVADOR, San Salvador, YSS, w/light mx 0340 9/16. ID 0354 as Radio Nacional de El Salvador, some splat from WSB's ancr. (Keleher, IN)  
 \*unusually strong 0337 9/30 w/talk by deep voiced man in SS. (Portzer, WA)  
 \*booming in during aurora 10/13 0050-0100 light mx, 0100 ID "Esta es la voz de su patria, YSS, R. Nacional de El Salvador... " 0102 into "Melodías en Marimbas". (Ball, ON)  
 \*0155-0200 organ mx on a large cathedral-like organ, very good 0200 w/man in SS 11/6. (Abraham, MI)  
 \*12/3 0044-0130 fair w/slow fading, woman ancr, 0051 ID as R. Nacional de El Salvador. Latin mx mostly fast, did not remain all evening as carrier barely detectable at 0340. (Curtis, VT)  
 \*w/s/off mentioning R. Nacional de El Salvador and NA 0356 1/19. (Keleher, IN)  
 \*at good level w/march mx at s/off 0400 1/19. (Connelly, MA)  
 \*classical and opera mx, SS ancr, YSS ID 0355, 0340-0400 2/16. Needed and reported. (Colyard, NJ)  
 \*good w/classical mx on the West Beverage, in the mud on the North Beverage, bad summer-like noise cx 0445 3/3. (Connelly, MA)  
 \*fair in WNBC sloop w/man in rapid SS at 0441 3/15. (Connelly, MA)
- 660 MEXICO, México, D.F., XERPM, through MM 10/3 0750-55 w/rock for the first time this season. Not much het from the Nicaraguan. (Cartwright, PA)  
 \*w/R. Uno ID and lots of strange sounds. Also a lot of loud boisterous mx 10/22 0515. (Lobel, CA)  
 \*in weak but steady 0655-0715 w/EE rock mx, SS anmts and man "R. Uno" IDs w/the electronic siren sound. (Tomer, CA)
- 660 SAINT LUCIA, Babonneau, likely s/EE religion o/u YVNA and partially nulled WNBC 0340 2/17. (Connelly, MA)
- 660 VENEZUELA, Coro, YVNA, o/u WNBC w/pompous trumpet fanfare, SS talk, Venezuelan NA 0158 2/16. (Connelly, MA)
- 660 UNID, WNBC off the air, hrd some sort of team match, one team was the yellow team, score in mod hundreds, ancr w/British accent mentioned that the sun was high in the sky w/some clouds, according to WRTH St. Lucia already s/off, did not loop to Caribbean, but ESE or SSW (85 or 265°) good strength, fair audio, only lasted for about 10 minutes 0605 1/26. I don't know what I hrd, St. Lucia or TP, either would be nice, have never hrd EE on MM before. Any other MMers hear this? Please drop me a line if you can ID this one. TP not very possible but one never knows. Did not have time to tape it. (Colyard, NJ) (I suspect you had St. Lucia Most of the British oriented stations in the Caribbean were carrying the Australia-West Indies cricket matches earlier in January, though I'm not sure when the series ends. It would be mid-afternoon in Australia then, hence your reference to the sun high in the sky. - ed)
- 660.4 NICARAGUA, Managua, YNAM, measured on this frequency w/a variety of SS songs 0857 4/26, good-poor signal putting horrible het on 660. (Portzer, WA)
- 660.5 UNID, bad het on WNBC 2/15. (Connelly, MA) (the above - ed)

- 564 ? UNID, 0300 plus, faint carrier, R. Fab in Guatemala? No sé que es...  
10/11. (Szot, CA)
- 565 MEXICO, Tijuana, B.C., XETRA, 12/22 1401 a spur seems to have developed here. Wonder if recent transmitter problems have anything to do with this? (Lobel, CA)
- 570 CUBA, San Pedro de Cacocum, CMKP, 10/27 2340, 10/28 0045 vying w/WMAQ for the frequency. Poor w/occasional override of WMAQ. SS hrd mention of Bank de Nacional de Cuba twice. (Curtis, VT)  
+in well at 0220 11/7. Much interference from WNBC. (Wood, NY)  
+w/male SS talk and long pauses u/YVLL's classical mx, WMAQ way below both 0452 1/19. Cuba atop YVLL (no other noted) w/R. Progreso ID and male SS vocals 0400 1/20. (Connelly, MA)
- 670 MEXICO, Torreón, Coah., XETOR, s/on 10/26 1228, ID as "X-E-Tor, Radio Ranchita." (Seaver, CA)  
+S-9 o/WMAQ 11/7 0045-0100 s/off. "R. Ranchito" IDs and jingles after every record. Also gives "X-E-Tor" IDs frequently. 0055 gave anmt "Transmite en Torreón, Coah., X-E-Tor, Radio Ranchita, mil vatios potencia, frecuencia 670 khz., Radio Laguna." (Nittler, NE)
- 570 VENEZUELA, Caracas, YVLL, hrd 11/7 at 0330 w/noticias u/CMKP. (Wood, NY)  
+R. Rumbos, SS mx, many IDs "so grande cadena nacional", signal like a local, report sent 0155 11/9. (Colyard, NJ)  
+potent level w/woman in SS then semi-classical mx 0621 12/21. (Connelly, MA)  
+pinning the S-meter, mashing Cuba w/Venezuelan NA at s/off 0406 2/16. (Connelly, MA)  
+R. Rumbos, celebrates its 25th anniversary with a series of four new QSL cards. Reports (English acceptable) are to be sent to Apartado 2518, Caracas, D.F. (SCDX)
- 670 ? UNID, the Cuban, WMAQ, and KBOI were off simultaneously MM 2/16 0815-30, the frequency was wide open for once and there were at least two Latins there, very weak, holding the promise of exceptional DX, but would you believe that KNBR slop from their incredibly noisy, jumpy records prevented any decent receptions of these Latin signals, although KNBR is maybe 900 miles (1450 km) away? No wonder guys in the Bay Area complain about KNBR slop. Was unable to null it either so the Latins went Unid. KOA gives me less trouble, when nulled, and I'm checking out Tarawa. Or perhaps the extreme weakness of the Latins was part of my problem. (Martin, CO)
- 675 COSTA RICA, San José, TIJC, first time really readable this season 0320 10/8 w/WoR SS songs, often just says "Sonora" between them. Costa Rica mentioned in ID 0332. (Keleher, IN)  
+likely here, SS talk, then fast SS male vocal 0429 2/16. (Connelly, MA)
- 675 ECUADOR, Guayaquil, HCVP2, R. Reloj IDed 0600 10/10 following patriotic harangue on behalf of the "municipalidad de Guayaquil". Excellent strength, Sonora off. (Schatz, FL)
- 680 COLOMBIA, Zambrano, HJBU, w/classical mx 0225 12/4, anmt by man 0225 mentioning Haydn, then ID by woman which is, as I hear it, "La R. Porteña Nacional de Colombia." Very good signal at times. A friend who speaks SS tells me that "porteña" originally meaning "from the port", is now taken to mean "in the northern part" in several South American countries as that is where the ports are. (Keleher, IN)  
+R. Nacional 1/26 0003 through WPTF w/Latin mx and several IDs, quite strong. (Cartwright, PA)
- 680 HONDURAS, Tegucigalpa, HRN, now here, ex-670. IDs mostly by calls, occasionally as La Voz de Honduras 9/6. (Schatz, FL)
- 680 PUERTO RICO, San Juan, WAPA, w/first appearance of season 2330 10/12, alone in auroral cx. (Foxworth, NY)  
+good w/SS ancr, pop mx, many IDs played Alice Cooper record, ID jingle "super heavy WAPA." 2255-2330 1/11, time check after every record. Have verie from WKYN-630 3/68, off now, so sent report w/IRCA SS form. (Colyard, NJ)  
+SS ancr, SS and US mx, many time checks and IDs, fair w/noise 0200 1/25. (Colyard, NJ)

- 690 ● CUBA, La Habana, CMBC, 0359 8/24 ID "R. Progreso, Cadena Nacional... Habana, Cuba... territorio libre en America" then pgm of MoR SS songs. (Keleher, IN)  
 ♦good w/instrumental mx during break in XETRA programming 0855 9/29. IDed by checking 670 for //. (Bytheway, WA)  
 ♦11/4 0543 very strong w/mx pgm and ID as R. Enciclopedia. IDs few and far between. (Nall, KY)  
 ♦w/Cuban mx // 670, slightly stronger, clearly dominant, 0618 2/15. (Connelly, MA)
- 690 ● DOMINICAN REPUBLIC, Santo Domingo, HIAW, S-9 0959 11/3. Almost no interference but assume Cuban still on 690 and NSP? Many IDs given as "R. Guarachita". Wonder if I've had them before and assumed it was Cuba? (Sherman, MN)  
 ♦easy in CMBC null w/R. Guarachita ID 0923 11/24. (Francis, TN)
- 690 ? MEXICO, México, D.F., XEN, strong at times 10/14 0440-0500 w/MoR instrumental and slow SS vocals, ID 0445 "R. Mundo, sesenta y cinco" by man followed by NBC radio type chimes. Then a woman w/"a la diez" followed by talk. (Cartwright, PA)
- 690 MEXICO, Tijuana, B.C., XETRA, spurs have appeared on 646, 668, 712 and 734 khz. Noted 11/21. (Seaver, CA)  
 ♦12/6 0100-15 off and apparently having trouble. Kept switching carrier on and off. Another station audible u/KNBR slop. (Lobel, CA)  
 ♦0726-32. 0726 Beatles instrumental tune till ID at 0729 by man in EE "You're listening to the beautiful music - XETRA," then into "Somewhere my Love" instrumental. (Gerardi, IL)
- 690 ● VENEZUELA, Barquisimeto, YVMR, R. Barquisimeto, 10/6 0107 came up o/CMBC w/fast mx against the MoR. ID at 0110. (Cartwright, PA)
- 700 ● COLOMBIA, Cali, HJXC, R. Sutatenza good w/religion and mx. IDed 1029 in moderate XETRA slop 7/6. (Clements, CA)  
 ♦fading in/out 1/1 0353-0400, finally w/mention of "en la republica Colombiana" and list of CARACOL stations in various cities. Second SS station w/talk there on Cali's fades, but no ID. (Pejza, CA)  
 ♦w/woman in SS, then man in SS giving s/off's for all Sutatenza stations, long list of calls and powers read, Tchaikovsky mx in background, then a march 0201-05 1/12. After s/off an Unid Latin dominated w/Gershwin-type modern jazz-derived symphonic mx, atop WLW Hockey game. (Connelly, MA)
- 700 COSTA RICA, San José, TIHB, R. Reloj fair 0629 7/5 w/lots of XETRA interference. (Clements, CA)  
 ♦in very well 0540-49 10/13 w/lots of "R. Reloj de Costa Rica" IDs. Light MoR, SS equivalents of Tony Bennett, etc. Also played theme from "Summer of '42." (Portzer, WA)  
 ♦R. Capital hrd clearly w/mail order offer "R. Capital... HB... San José" etc., u/Cuban w/Enciclopedia pgm // 690, all w/a weak WLW nulled w/SM-2. Could not copy this w/long wire though. This at 0717 11/9 and the short wave // on 4832 was absent, as they have been often lately. (Foxworth, NY)  
 ♦fair in the WLW silence (their first of the 70's, I believe) 0557 11/17 w/subdued "R. Reloj de Costa Rica" ID. (Francis, TN)  
 t ♦w/American sounding pop mx o/CBU splatter and noise, nil-fair signal. R. Reloj ID at 0431 12/30. (Hall-Patch, BC)
- 700 GUATEMALA, Guatemala, TGHR, R. Mundial good w/ID and mx wiped out by XETRA slop seconds later 0415 7/6. (Clements, CA)
- 700 ● JAMAICA, Montego Bay, JBC on all night 1/5 w/nx of cricket matches and records u/WLW. (Nittler, NE)  
 ♦noted here 0945-1032 1/26. Was waiting for them 0945 and listening to 2 SS's fight it out when a third station appeared. Sure enough, EE "Back to the Bible" pgm faded up a few minutes later. In and out w/that for a while, then had MoR. At 1030 they faded up very nicely w/chimes, ID, time check and nx. No sign of WLW but SS interference hrd, signal very fadey and audible maybe 20% of the time. (Portzer, WA)
- 700 ● VENEZUELA, Maracaibo, YVMH, R. Popular, in 11/2 at 0135 o/u WLW. (Wood, KY)  
 ♦11/6 0000-30 extremely strong, complete takeover of the frequency, SS Latin mx, frequent commercials, mentions of Venezuela and Maracaibo, hrd ID of R. Popular but have to listen close, after 0030 another SS

was competing for the frequency. 0048 still in but weak. (Curtis, VT)  
+presumed the one here as I caught the Venezuelan NA at 0200 11/6. Fair  
w/no interference. Absolutely amazing since WLW usually dominates this  
frequency no matter what kind of cx prevail. (Abraham, MI)  
+11/9 0153 on top w/WLW looped. Mentions of Maracaibo and ID as Radio  
Popular. (Nall, KY)  
+quite well w/SS vocals 1/25 2344 w/WLW nulled. (Cartwright, PA)  
+// 580 and 740 w/apparent fund raising telethon 0640 2/15. (Connelly, MA)

- 705 HONDURAS, "Voz de Olancho" ID in clearly during anmt 0320 4/28. Local  
WGBS nulled but splattered a lot. (Schatz, FL)
- 710 MEXICO, Guaymas, Son., XEPS, 0630 in SS IDing as R. Amistad and mixing  
w/KMPC 8/5. (Sztot, CA)  
+presumed the one w/ranchera mx and SS talk 1254-1300 MM 3/1. Faded at  
the hour, naturally, so no definite ID. (Pejza, CA)
- 710 MEXICO, Ciudad Cuahutemoc, Chih., XEVB, 12/29 0330 a new station testing  
here w/varied SS mx and frequent IDs "Escuchan ustedes XEVB, La Grande,  
setecientos diez kilocyclos, cinco mil watts de potencia (5 kw), desde  
Cuidad Cuahutemoc, Chihuahua, en transmisiones de prueba (test trans-  
mission)" Gives address as A.P. 177 and is requesting reports. Good  
signal here, seemed to go off 0600. Also hrd 12/30. (Kemper, CO)  
+poor-good on top of channel. Hrd SID at 1200 2/9 (ID not clear), then  
yelled "La Grande" again. This is reasonably new according to Ralph  
Kemper. Not in WRTH '75. (Hall-Patch, BC)
- 710 VENEZUELA, Caracas, YVKY, in well 10/6 w/no WOR due to aurora, ID 0155,  
mostly mx. (Cartwright, PA)  
+R. Capital 11/6 0048-0140 good to very strong w/fading, Latin mx,  
frequent mentions of Caracas, many commercials including "Fresca",  
complete override of WOR. (Curtis, VT)  
+0202 sportscast, fair w/interference 11/6, mentions of Venezuela, no  
conclusive ID. (Abraham, MI)
- 715 UNID, 0205 11/6 poor signal, man talking, will be a new station here once  
I get an ID. (Abraham, MI)
- 720 COLOMBIA, Barranquilla, HJAN, "Barranquilla" ID hrd through WGN 0035 11/5  
in passing. (Abraham, MI)
- 720 CUBA, Colón, CMGN, R. Rebelde weak w/time check and ID 1030 7/6.  
(Clemons, CA)  
+good 10/12 in WGN null w/La Voz de Cuba // 600/640, 0645 usual diatribe  
on the evils of "capitalismo", 0650-0700 instrumental mx, 0700 ID "esta  
es La Voz de Cuba." (Ball, ON)  
+11/6 0104-0155 fair-good, vying w/another SS for frequency (other  
probably Colombia), SS talk and Latin mx. (Curtis, VT)  
+maybe as a gesture of detente? the Cuban was only 3.7 hz away from WGN on  
11/9. Similarly the Cuban on 780 was 12-14 hz away from WBBM. The one  
on 780 last year was hundreds of hz off of 780, their het got WBBM an  
undeserved citation from an FCC monitoring station for 'tone on carrier'  
some months ago. (Foxworth, NY)  
+1/19 1005 most likely the SS in WGN null w/KDWN off this MM. Hrd  
mention of Cuba. (Lobel, CA)  
+dominant w/SS talk atop Unid w/female SS vocal, both atop WGN 0612 3/14.  
(Connelly, MA)  
+noted in strong o/wat I believe was WGN 0943 3/17. ID as "R. Habana,  
Cuba." (Oliphant, AB)  
+potent w/female folksong about "La Revolución" followed by man in SS.  
Second SS speaker beneath, SAH 1.6 hz. The subdominant Latin has been  
noted often, but the Cuban is just too strong to allow meaningful copy of  
anything else on 720. Above reception at 2345 4/1. (Connelly, MA)  
+0925 4/5 suspect here in WGN null w/SS pgm (only one ever hrd here).  
KDWN off but testing at 0935. Could not hear any definite ID of SS stn.  
(Lobel, CA)
- 720 EL SALVADOR, Santa Ana, YSRA, fair w/Himno Nacional at 0600 s/off 7/14  
u/WGN/CMGN. (Francis, TN)
- 725 COSTA RICA, San José, TILX, R. Columbia in fair to good through XEX slop  
and terrific static. Good clear R. Columbia ID 1105. Absolutely bombing

- in a half hour later 7/6. (Clements, CA)
- \*R. Columbia on 724.869 and SRS on 724.974 0200 9/23. (Schatz, FL)
  - \*0305 10/8 w/two men really yelling a spiel, several mentions of "co-LOOM-bia" and Costa Rica. Noted often w/Columbia promos and lively mx. One of the best Costa Rican's, suspect power up from listed 3 kw. (Keleher, IN)
  - \*R. Columbia poor 0350 10/13, Latin mx and splatter from CKAC. Caught good ID as R. Columbia at 0400. (Curtis, VT)
  - \*good w/nx 1132 12/1, then ID w/many coococs. Ranchera mx followed. Bothered by heavy noise and/or KDWN slop. (Portzer, WA)
  - \*SS phone-in show, the SS version of "Get Me to the Church on Time" 0558 12/21. Surinam off. (Connelly, MA)
  - \*finally hrd w/fair signal but rough next to KDWN 1055 12/22. (Peterson, CA)
  - \*very strong, slow SS male vocal 0447 1/17. (Connelly, MA)
  - \*w/usual lively songs "Columbia" promo 0302 1/19. (Keleher, IN)
  - \*1/19 0500 w/MoR and ID as "Columbia". (Nall, KY)
  - \*strong and alone on channel w/medium tempo SS ma 0437 3/15. (Connelly, MA)
  - \*very strong w/slow SS male group vocal 0437 5/3. (Connelly, MA)
- 725 **SURINAM**, Paramaribo, SRS, good w/MoR 10/10, ID in DD 0230 mentioned "Stichting R. Omroep Surinam", then mx w/woman DJ. Also noted 10/9 w/EE pops played by woman till abrupt s/off 0300. WRTH has it as 0330. (Keleher, IN)
- \*0218 likely DD, very Germanic sound. 0225 fadeout w/faint carrier audible. 0228 faded back in and having pop mx. 0231 a man in EE gave their frequency, ID and mention of "broadcasting from South America" so maybe this is sort of an international service, as if it was a domestic service I doubt if they'd ever even say they're in South America. I believe most Surinamians know they live in South America, EE ID was probably for the benefit of listeners on the EE speaking Caribbean islands I guess. ID in DD followed. 10/11. (Szot, CA)
  - \*fair 0030-0100 10/13, hrd ID 0031 as R. (something) Surinam, Paramaribo. language was DD, very easy listening dance mx, some EE, fair but some splatter from CKAC, fading, static and hets won out after 0100. (Curtis, VT)
  - \*0000-10 nx in DD, request pgm of US soul mx 11/5. (Abraham, MI)
  - \*R. Omroep Surinam 12/3 0040 fair playing "Santa Claus is Coming to Town" ID from DD, long slow fades, still in at 0130. (Curtis, VT)
  - \*like a local w/"Bridge Over Troubled Waters" by Simon and Garfunkel 0045 12/22. (Connelly, MA)
  - \*w/man in non-European language, strong 2219 1/3. (Connelly, MA)
  - \*EE pops 0248 1/20. ID by woman 0301 mentioning Stichting Radio Surinam. (Keleher, IN)
  - \*w/man in unknown language, very strong 2240 1/24. (Connelly, MA)
  - \*DD pgm "Big Sound Music Machine," DD and EE rock mx, went off air at 0133 in middle of record but was back on later in evening, probably had transmitter problems, 0110-35 2/8. Real good signal. (Colyard, NJ)
  - \*very strong at sunset w/religious mx, 2218 2/15. This station has propagation characteristics halfway between those of Venezuelan/Colombian type Latins and southern TAs such as Dakar. (Connelly, MA)
  - \*very strong w/man in Asiatic language 2251 2/24. (Connelly, MA)
  - \*good w/festive uptempo Latin style mx, bad noise (as summer draws near), 2308 3/9. (Connelly, MA)
  - \*presumably SRS here 3/12 0052-55 w/instrumental mx, man in DD, faded into slop 0055 never to return, sending taped report to be sure. (Ball, ON)
  - \*at good level w/male rock vocal 2347 3/13. Peaking up at excellent strength w/"Rock the Boat" by Hues Corporation 0203 3/14. (Connelly, MA)
  - \*in like a bomb (excellent/no interference) w/disco-rock version of "Sunny", ID in DD "R. Omroep Surinam", talk in another language, male calypso vocal "Everybody Goes Carefree" then Barry White song, 2337-44. 4/1. Better than most domestics during aurora, pinning S-meter, w/Frank Sinatra song followed by lush instrumental of "Jean" 0307 4/2. (Connelly, MA)

730 **BOLIVIA**, R. Mensaje, Casilla 1, Montero, Santa Cruz, Bolivia, starts operations with 1 kw self-made transmitter. Programming consisting of mx educational programs, religious talks, et al., is directed especially to the campesino. Has a Japanese language program. Power will be increased to 5 kw, shortly. Padre Pacifico Feletti is Vice-Director. (SCDX)

- 730 ● **COLOMBIA**, Bogotá, HJCU, R. Melodía, hrd 0255 11/2 through much interference. (Wood, KY)  
 \*was surely the one w/throbbing fast-paced Latin music u/XEX tele-talk show 0804-29 12/8. Believe I caught mention of Colombia and Melodía during anmts but haven't played back tape yet so not sure. CKLG was off. (Portzer, WA)  
 \*w/several IDs atop CKAC 0628 2/15. Good ID taped 0707 when totally dominant. (Connelly, MA)  
 \*2/29 0719 fair w/fiesta mx, "R. Melodía" IDs, mixing w/XEX. (Ball, ON)  
 \*loud, obliterating CKAC w/SS mx, screamed "Melodía" ID 0244 3/14. (Connelly, MA)
- 730 ● **CUBA**, Holguín, CMKJ, popped through 0222 11/8 w/mention of "Habana, Cuba, territorio libre" in XEX null. Only Cuban listed on the frequency so guess it's them. (Keleher, IN)  
 \*R. Liberación, RR language lessons, the RR had my mind baffled until I hrd SS ID, weak but readable 2300 1/24. (Colyard, NJ)
- 730 **GUATEMALA**, Guatemala, TGN, R. Cultural, Apartado 601, Guatemala City, broadcasts in English 0300-0430 vice WRTH schedule. (SCDX)
- 730 **MEXICO**, México, D.F., XEX, 0448 9/4 w/MoR song "R. Setenta y Tres" jingle mentions of "La Equis", then discourse by man and woman mentioning México and several estados, may have been political or patriotic. (Keleher, IN)  
 \*10/5 0750 fighting its way u/CKLG w/male ancr talking to someone on phone Also hrd 10/10 0240 w/Mexican mx. Much slop from KCBS and KDWN. (Lobel, CA)  
 \*10/14 good 0520-30 w/IDs as "La X", mx, ads. (Ball, ON)  
 \*"La X", SS mx and talk, La X and México mentioned many times 0150 1/26, fair signal, noticias at 0158. (Colyard, NJ)
- 730 ● **TRINIDAD**, Port-of-Spain, R. Trinidad signal fair and nearly alone 2356 11/16 w/cricket scores. Rarely hrd here. Oddly, on other frequencies, e.g. 900, no sign of other Caribbean stations that might be expected. (Foxworth, NY)  
 \*apparently the station here various times between 2315-0000 2/14. Man in accented EE reading lottery results at 2315 w/good signal. Interference from Unid SS o/u. (Eckman, PA)
- 730 ? **UNID**, at least 2 stations here 1111-59 12/1. Weak male talk noted amongst about 200 hz of hets 1111 in what sounded like EE. Brief hymn 1130. Noted again 1145 w/SS male talk o/u ranchera mx. CKDM s/on 1159 blew any hope for an ID. Ranchera mx was most likely XEX getting ready to s/on. Suspect the other was TGN. CKLG off most of the morning, a rare occurrence. (Portzer, WA)  
 \*possibility of Trinidad. EE religious pgm "Showers of Blessing" well o/Cuba and CKAC, faded deeply just before ID time 0100 1/12. (Connelly, MA)
- 735 ● **ECUADOR**, Quito, HCBG1, believed the one w/SS pops, mention of "Melodía, en Quito" and "La Capital" 0523 12/2, similar anmt 0539. Rarely above noise. (Keleher, IN)  
 \*clear ID caught on tape "En Quito... Melodía" at 0521 1/13 during promo by man and woman. Just stumbled across it, fair at times, deep fades. Lively SS ma and Melodía mentioned often. (Keleher, IN)  
 \*at fair level w/festive SS mx 0542 3/14. (Connelly, MA)  
 \*fair w/man and woman in SS, then mx 0350 4/1. (Connelly, MA)  
 \*good w/screaming SS political speech, Spain-737 present as het 0508 4/11. (Connelly a, MA)
- 740 ● **CUBA**, Camagüey, CMJL, w/SS talk about Cuba way o/CBNM/CBL and other Latin stations 0328 12/21. (Connelly, MA)  
 \*0945 4/5 not sure but suspect this one hrd w/male ancr in SS in null of KCBS carrier. KTRH s/on 0958 and KCBS s/on 1001 made positive ID impossible. Cubans were in good this first MM so CMJL is likely. (Lobel, CA)
- 740 ● **MONTSERRAT**, Montserrat, R. Antilles, announced FF sked 0930-0100. (Schatz, FL)  
 \*"R. Antilles" (on-TEE) ID 11/16 0952 in FF. Strong and alone on channel w/LSCA-2. First USA reception of this one. (Schatz, FL)  
 \*2/9 w/FF announcement 0931 o/u WKIS. Nice ID for taped report 0943. This one gives me all Montserrat. (Keeney, KS)

- 740 **VENEZUELA**, Maracaibo, YVNC, R. Maracaibo 10/6 poor through het and WKIS. ID did get through 0120. (Cartwright, PA)  
 \*noted w/pgm to raise funds for Clinica de San Rafael. Donors were acknowledged and live mx was performed before a live audience. Pgm // 570/700., very strong signal 0638 2/15. Again noted w/list of all Venezuelan stations on net 0704 2/15. (Connelly, MA)  
 \*fair w/R. Maracaibo ID o/u CBL, yielding low pitched het 0359 4/1. (Connelly, MA)
- 750 **COLOMBIA**, Medellín, HJDK, 12/29 1140 this one likely suspect u/(chirping noise) w/"R. Caracol" ID and Colombian mx. Male/female ancrs. (Lobel, CA)  
 \*noted poor-fair fighting Unid OC 0810 3/1 w/Caracol ID preceded by string mx and followed by brass mx. (Hall-Patch, BC)
- 750 **JAMAICA**, Point Galina, JBC, hrd all night 1/5 // 700 and o/YVKS/HJDK. (Nittler, NE)
- 750 **NICARAGUA**, Managua, YNX, fair o/WSB 1009-19 8/12 and fair-good w/KMMJ s/on 1100-05 8/12. Pleasant vocal mx, alternating man and woman IDs between songs w/mentions of "X", Managua and Nicaragua. (Ford, BC)
- 750 **VENEZUELA**, Caracas, YVKS, according to the 7 July Broadcasting, RCA sold a 100 kw medium wave transmitter to Radio Caracas. (SWNS, July '75)  
 \*w/clear R. Caracas ID MM 7/14 0750 between ballads. Nothing else on channel. (Pejza, CA)  
 \*blasting in o/HJDK 0530 9/8 w/SID. Station plays lots of fairly current US pops. (Francis, TN)  
 \*fighting pest KFQD 0606 9/15 w/Radio Caracas ID and wierd electronic sound, then Venezuelan mx. (Portzer, WA)  
 \*now dominant here w/higher power, replacing YNX. (Schatz, FL)  
 \*after a fadey spell came up to good level 0541 9/15 w/US pops, some SS versions but mostly EE, pip and R. Caracas ID 0601, noticias 0604. (Keleher, IN)  
 \*w/US rock mx o/u KFQD 0830 9/29. (Bytheway, WA)  
 \*9/31 0040-0142 poor. vying w/WSB but WSB predominant, Latin mx and SS talk. (Curtis, VT)  
 \*MM 10/3 and 10/5 well o/WSB w/frequent IDs. (Cartwright, PA)  
 \*0530 10/6 good, 0530 mx ID, R. Caracas, twice, mx in SS then Latin mx. (Curtis, VT)  
 \*hrd 10/6 0755 in clear. YNX/WSB dominant still in evenings here. (Seaver, CA)  
 \*atop and clear signal 0100 10/15. (Foxworth, NY)  
 \*0822 11/17 w/SS version of US rock hit "Feelings," and "R. Caracas, R. Caracas" SID. (Korn, CA)  
 \*o/WSB w/Santana record, SS talk and ID, then "What a Difference a Day Makes" (female soul record) 0555 12/21. (Connelly, MA)  
 \*dominating u/WSB OC and o/Unid SS talk 0804-20 12/29 while looking for WHEB DX test. Mostly US rock including "Please Don't Stop Loving Me" by Bobby Vinton at 0810. (Portzer, WA)  
 \*topping WSB on N-S beverage w/Carpenters record, SS ID, then Gladys Knight 0155 1/12. (Connelly, MA)  
 \*way atop loud growl of hets w/"Take it to the Limit" by Eagles, then SS ID, followed by "Somewhere in the Night" by Helen Reddy 0642 2/15. (Connelly, MA)  
 \*very strong, totally dominant w/fast SS talk, R. Caracas jingle, electronic beeps, then Trinidad steel band type mx at 0200 3/14. (Connelly, MA)  
 \*w/mx in both EE and SS, ID as "R. Caracas" 0901 3/17 into what sounded like nx in SS, WSB back on top 0906. (Oliphant, AB)  
 \*hrd 4/2 2324 w/rock song "Dream Weaver" in EE followed by an ID in SS as Radio Caracas. (John Colyard, NJ)
- 754 ? **UNID**, mystery Latin here 11/5 0335-55 weak and marked by extremely deep fades running 3-4 minutes each time. No trace of it after 0400. Station probably the same as noted night before when appeared to be about 752 instead. Station s/off caught 11/6 came abruptly at 0358 minus any NA or other IDable trimmings. (Martin, CO)
- 755 **COSTA RICA**, San José, TIRA, R. América Latina noted here w/fair signals 7/15 0305 w/ID and mention of Costa Rica, still here on 7/21 evening.

(Schatz, FL)

756.5<sup>?</sup> UNID, man in fast SS 0420 12/31. (Connolly, MA)

- 760 ● COLOMBIA, Barranquilla, HJAJ, La Voz de Barranquilla now 30 kw per IDs. (Schatz, FL)
- +weak u/CMCI in ultra rare WJR silence 0600 9/8 w/several RCN mentions a IDs. (Francis, TN)
  - +MM 10/3 fair through WJR 0730 w/mostly mx, little talk. (Cartwright, PA)
  - +in well while tuning past w/La Voz de Barranquilla ID 0750 10/13. (Portzer, WA)
  - +atop WJR 0818 10/20 w/La Voz de Barranquilla SID, voice ID, another identical SID and time check. (Korn, CA)
  - +in at 0505 11/4 w/WJR. (Wood, KY)
  - +dominant here way o/Cuba and WJR w/many IDs, spoken and musical as La Voz de Barranquilla 0603 12/22. (Connolly, MA)
  - +loud and totally dominant w/La Voz de Barranquilla ID, mentions of RCN, followed by fast accordian mx w/male vocal 0644 2/15. (Connolly, MA)
  - +was really creaming KFMB 0634-46 2/16. Good La Voz de Barranquilla ID amidst song, laughter, and merriment 0645. I wonder if they raised power recently? (Portzer, WA)
  - +noted 0742 2/16 w/mx and man saying "Esta es La Voz de Barranquilla, la emisora de...?" poor-good o/nulled KFMB. (Hall-Patch, BC)
  - +w/tropical mx MM 2/16 0845-54. ID as La Voz de Barranquilla 0854. KFMB OC and test tone interfered badly at times. WJR way under. (Pejza, CA)
  - +fair u/WJR 2/29 0720-30 w/lively fiesta mx, ID "... La Voz de Barranquilla de R. Cadena Nacional... La Voz de Carnaval." (Ball, ON)
  - +strong, alone on channel in SS w/list of names and phone numbers 2350 3/13. (Connolly, MA)
  - +w/La Voz de Barranquilla ID 0707 3/15 w/WJR nulled. (Oliphant, AB)
- 760 ● CUBA, La Habana, CMCI, R. Reloj Nacional 10/6 dominating the frequency which sounded like a graveyard w/the aurora. Only station I could ID because of the distinctive format and chimes 0100-0300. (Cartwright, PA)
- +10/27 1218 was in w/S-5 signal and quite steady. Male ancr talking quite slow for a Cuban station. Did mention Habana and kept saying "gracias". KFMB carrier back 1220. (Lobel, CA)
  - +Barranquilla pestering the frequency w/SS polital speech 0315-18, CMCI emerged w/Reloj pgm equalling HJAJ strength 0319. A third station rose atop 0320 4/2 w/SS rock mx, then a jingle having 3 letters. No sign of WJR. (Connolly, MA)
  - +1005 4/5 nx w/man and woman ancrs and time checks every minute. KFMB off but mucho KOB slop. (Lobel, CA)
  - +good 0822 4/26 w/standard R. Reloj format, tone and code bursts every minute. (Bytheway, WA)
- 760 ● GUYANA, Georgetown, R. Demerara seems to be the only possibility hrd 0002 through 0007 2/14 w/fair signal. Nx was read by man in slightly accented EE. Definitely not a domestic as mentioned things like "the US government said today..." and had other S. American topics. End of nx 0006, then went into apparent mx pgm but faded u/SS station. No WJR at this time. (Eckman, PA)
- 760 MEXICO, México, D.F., XEABC, w/"ABC, R. Internacional" ID 1228 11/3. KFMB off, ET started 1230. (Pejza, CA)
- +12/29 1145 w/"Esta es Eh-kees-eh-ah-beh-ceh, R. Internacional... " ID at 1150. KFMB off and no sign of WJR/CMCI. (Lobel, CA)
  - +3/1 1203 w/good signal at S-9 and "XEABC" ID. KFMB off but WJR causing problems. Also, hrd R. Internacional ID 1205. (Lobel, CA)
  - +w/SS ballads and ID 3/1 1223. (Pejza, CA)
  - +w/ID as "X-E-A-B-C" in SS 1205 3/17 o/Unid US station, beginning to fade after a few minutes. (Oliphant, AB)
- 760 ● VENEZUELA, Puerto La Cruz, YVQQ, fair-good w/R. Puerto la Cruz ID, non-stop SS talk briefly surfacing o/HJAJ/WJR 4/2 at 0020. (Connolly, MA)
- 765 <sup>a</sup> EL SALVADOR, San Salvador, YSKL, most likely the one here w/man in SS fair 0425 4/28. (Connolly, MA)
- 765 <sup>?</sup> UNID, is there a new Latin on this frequency, one that remains on the air for hours after YSKL s/off at 0600? Have not hrd YSKL here for months it seems, but have noted a weak carrier here during August as late as 0800

and it seems to be weaker than the usual signal from YSKL. Would say it loops farther west than Colombia and I doubt that it comes from YSKL. (Martin, CO)

- 770 **COLOMBIA**, Bogotá, HJKH, o/u WABC and Panamá w/"Fly Robin Fly", then R. Tequendama ID 0700 2/15. A real dog-fight here on 770. (Connelly, MA)  
+assumed the Latin here MM 3/1 0630 w/WABC off w/Todelar chimes. A Radio ??? ID hrd but not too clear. Fair signal w/no other stations noted. (Lazar, WI)  
+o/u WABC w/R. Tequendama ID and Latin horn mx 0254 3/14. (Connelly, MA)
- 770 **PANAMA**, Chitre, HOL83, playing EL mx continuously 0546 11/11, talk by man several mentions of Panamá, ended w/"R. Libertad." Stayed w/it for a while, sounded like the guy was telling little stories while the mx played. WABC weak, easily nulled. (Keleher, IN)  
+briefly o/WABC and HJKH w/many mentions of Panamá, then fast SS mx 0650 2/15. (Connelly, MA)
- 770 <sup>2a</sup> **UNID**, strong het of about 400 hz against WABC noted on car receiver (at Route 128 in Waltham) at local sunset 2215 3/2. Dakar-764 strong at the time. (Connelly, MA)
- 775 **COSTA RICA**, San José, TIW, now "R. Uno", ex-Exitosa. (Schatz, FL)  
+R. Uno is the latest name of the station here. Noted on tip from Charley Keleher. PFM is 774.983 (10/3) which is close to Exitosa PFM of 2/3/75 of 774.987, and identical to PFM of 3/31/75 of 774.983. Unusual EE/SS bilingual format. (Taylor, IN)  
+good 0413-30 10/13, static and some splatter from WABC, but strong at times. Wild rock instrumental mx, frequent IDs make it easy. R. Uno. (Curtis, VT)  
+here .11/11 0058 w/pop mx. Strong signals in SS. This thanks to Ron Schatz. (Nall, KY)  
+w/US pops 0543 11/23, "R. Uno" promos, San José mentioned in anmt 0558. All anmts at this time in SS, but can be hrd earlier evenings w/EE anmts and spots, even a McDonald's spot hrd once. (Keleher, IN)  
+strong w/disco-rock 0500 1/19. (Connelly, MA)  
+weak some evenings, on 2/9 0430-36 hrd w/US rock and IDs. (Seaver, CA)  
+strong w/ID then "Who Loves You" by Frankie Valli 0410 2/16. (Connelly, MA)  
+fair w/R. Uno IDs by man and woman, then country western song "Blind in the Bleachers" 0435 3/15. (Connelly, MA)  
+fair w/"Do it Again" soul song 0438 5/3. (Connelly, MA)
- 775 **NICARAGUA**, Unlisted YNW repeater is probably the one causing het on high side of R. Uno. PFM of 775.148 on 10/3. Anyone IDed this critter? (Taylor, IN)
- 780 **BRITISH VIRGIN ISLANDS**, Roadtown, ZBVI atop Cuba w/BBC discussion pgm, 2252 7/24, no trace of WBBM. Cuban rising atop by 2252, both badly hetted by Portugal-782. (Connelly, MA)  
+in the clear w/good signal and weak CMJN SAH. Soul song "She's Gone" followed by ad for King Pine disinfectant and a food store in St. Croix. then a disco version of "Baby Face" 0022-25 4/2. (Connelly, MA)
- 780 **CUBA**, Camaguey, CMJN, 0140 mx 0145 full ID "... territorio libre de América..." nx by man, excellent signal 11/6. (Abraham, MI)  
+w/pgm // 640/590 u/WBBM 0944 12/1. Very weak so checked // during mx and anmts. (Bytheway, WA)  
+noted way u/KCRL w/SS talk // 590 0847 12/29. (Portzer, WA)  
+booming in w/KCRL off 0920 1/26. Man and woman w/talk about Angola. (Portzer, WA)  
+dominant w/man in SS, then dolorous song, male vocal w/guitar accompaniment and flute solo. Followed by slow female vocal w/piano. Hets present from 779.5 and Portugal-782 0712 2/15. (Connelly, MA)  
+0700 3/11 strong het till 0700, then u/WBBM (Located 350 miles (560 meters) away from me), ID by man in SS, R. Habana jingle, then political talk still audible u/WBBM till 0800. This is hrd clearly u/WBBM on good nights. (Gerardi, IL)  
+potent and totally dominant w/R. Rebelde ID 2359 3/13. (Connelly, MA)
- 782 <sup>a</sup> **UNID**, Latin drifter measured on 781.984 at 0103 on 8/24, not enough signal for audio. (Nelson, MA)

- 790 **COLOMBIA**, Medellín, Radio Visión's new address is Calle 53, No. 46-80, Medellín, or Apartado Aéreo 1864. (A.P. Huertes)
- 790 **MEXICO**, Chihuahua, Chih., XERPC, w/time check and lots of R. Ranchito IDs 0352 7/6, fair. (Clements, CA)
- 790 **MEXICO**, La Paz, B.C.S., XENT, good w/interference from XERPC. "XENT, R. La Paz" ID into mx 0400 7/6. (Clements, CA)
- 790 **MEXICO**, Mexicali, B.C., XESU, 11/21 2030 finally IDed this one u/KABC. Have often hrd an XE u/KABC and not been able to ID, finally hrd a definite XESU ID. (Lobel, CA)  
 \*1/2 1410 w/mention of Mexicali. Sounded like "Buenos Dias Mexicali." Fair in KABC null. (Lobel, CA)
- 790.6 a? **UNID**, fast SS mx here 0705 12/22. (Connelly, MA)
- 800 **EL SALVADOR**, San Salvador, YSAX, La Voz Panamericana IDed during pgm of Mexican mx 11/11 1050. Calls not hrd. (Schatz, FL)
- 800 **MEXICO**, Cuidad Juárez, Chih., XEROK, 12/8 0128 audible u/XEMMM null w/rr mx. Spot for Ray's #2 Drive-In and X-Rock 80 ID 0130. (Lobel, CA)
- 800 **NETHERLANDS ANTILLES**, Bonaire, PJB, ending pgm on history of Bonaire 0440 8/24 in EE. "Caribbean News Call" 0445, international nx 0500. Announced Trans World Radio EE programming ending 0505, then SS pgm w/Radio Trans Mundial mentioned. (Keleher, IN)  
 \*good 10/5 mixing w/CKLW 0355 EE religious pgm "Voice of Truth," 0400 ID "This is the international sound of the Caribbean, Trans World Radio, Bonaire," then into "Music and You". (Ball, ON)  
 \*10/10 0230 w/s/on, loud chimes and pgm called "Your Worship Hour," very strong S-8 signal w/no sign of XEROK. Only other station on frequency was a domestic, probably KUZZ. (Lobel, CA)  
 \*noted all night 12/1 0358. PJB was first logging in over 3 years. CKLW obviously missing, as was the Mexican. Usual religious pgm, could find no short wave //. Very strong o/noise and other stations. (Dale, MO)  
 \*12/8 0813 poor signal w/PP u/slop from KGO test. (Lobel, CA)  
 \*12/11 0500 beautiful Trans World Radio ID in EE in CJJC's null, followed by "news from TWR and the Associated Press." CJJC buried nx but faded up for 0504 ID and commencement of SS pgm. (Hall-Patch, BC)  
 \*12/29 0827 in PP, ID at 0830 w/"R. Transmundial PJB", then what sounded like IS and another ID. S-10 w/nothing else audible. (Lobel, CA)  
 \*has been suffering microsecond breaks in their carrier, noted nightly in mid-January. Perhaps a loose cable. (Schatz, FL)  
 \*1/19 0847 in PP w/religious pgm and IDs in both PP and EE. (Lobel, CA)  
 \*w/clear "R. Transmundial" ID 0523 3/15 into what sounded like a NA, then seemed to disappear so it must have been a s/off. (Oliphant, AB)  
 \*extremely strong and totally dominant w/R. Bible Class in EE, talk by man and hymns 0440 5/3. (Connelly, MA)
- 805 ? **UNID**, "Radio... " something, nothing similar listed in WRTH '76, though suspect Honduras. PJB on figure 8 null causes no problems, but 805 is fairly weak. (Schatz, FL)  
 \*w/distorted audio and typical Central American fare. A "R. ... " something noted evenings during January. Picked out frequent "panameños," but also Hondurian provinces. S/off 0500 w/o anthem. (Schatz, FL)  
 \*"R. Yorosca" is the best ID I can draw out of this one so far. Name could be a company abbreviation, from "Toro SA" or similar. PJB nulled, no choice. Will keep working on it. (Schatz, FL)
- 810 **COLOMBIA**, Bogotá, HJCY, 9/13 0254 w/man giving speech, mentioned Colombia ID 0301 "Bogotá, R. Sutatenza," then "Mundo noticias de la momento... Colombia y mundo" and nx item about México. (Keleher, IN)  
 \*hrd 0922 11/24 w/chimes and SS talk. No interference from CHQR. (Orren, WA)  
 \*Latin mx, SS, many IDs, like a local 0125 12/4, WGY not hrd. (Colyard, NJ)  
 \*1/6 0230 strong "R. Sutatenza" ID o/WGY, then Latin mx fighting WGY. I'll believe this is 250 kw. (Jones, NJ)  
 \*o/u WGY w/spoken and sung IDs 0058 1/13. (Connelly, MA)  
 \*1/19 0920-35 w/"R. Fonetisa de Bogotá" ID, also "R. Sutatenza" ID and man constantly saying "Buenos Dias" S-9.5 signal almost constant and nothing

- else on frequency. This is the best I have ever hrd this station. Many chimes hrd. (Lobel, CA)
- ✦ fair 2/28 well o/WGY in aurora w/ID, ads, nx 0100. (Ball, ON)
  - ✦ good w/long SS dance song, then ID "R. Sutatenza de Colombia" atop 2nd SS station (WKVM?) and WGY 0020 3/14. (Connelly, MA)
  - ✦ R. Sutatenza was noted here 4/3 at 2300 w/ID and nx in SS. Signal was interfered with by several other Latins. (John Colyard, NJ)
- 810 MEXICO, Ciudad Obregón, Son., XERSV, 10/10 0150 "R. Variedades" ID hrd w/KGO. (Lobel, CA)
- ✦ 1/2, 1414 hrd "R. Variedades" ID here, probably XERSV (only one listed in Mexiglenn Log.) KGO causing mucho problems. (Lobel, CA)
  - ✦ mx, frequent "R. Variedades" IDs and IS 1312 2/1. Often o/CHQR and another SS w/good signal and some fading. Only IS really cut the crud when KCMO changed power and pattern 1315. (Hall-Patch, BC)
- 810 ● PUERTO RICO, San Juan, WKVM, hrd 0415 10/13 w/"Festival musical de Puerto Rico" and IDs as "K-V-M", good signal. Went until s/off 0457 anmt in SS, La Borinqueña, anmt in EE and SSB at 0459. (Foxworth, NY)
- 815 ? UNID, 0200-0300 10/11, just faint carrier, no audio. (Szot, CA)
- 820 ● COLOMBIA, Cali, HJED, La Voz de Río Cauca all alone 10/12 (WBAP off, presumably) 0606-0630 w/typical Colombian cumbias and paseos 0615 "Esta es la música de Colombia..." (Ball, ON)
- ✦ presumed HJED 10/12 0718 w/"La Música Colombiana." WBAP off. (Seaver, CA)
  - ✦ had to be the one here 0905-20 10/12 w/all night mx and "esta música nace en las cosas Colombianas, la... CARACOL, primera Cadena Radial..." at 0920. WBAP off. (Korn, CA)
  - ✦ 12/1 1030 w/CARACOL ID, male ancr hrd w/good signal w/WBAP. (Lobel, CA)
  - ✦ 12/9 0102-0219 fair-poor w/long fades and hets, SS nx w/frequent Bogotá datelines and mention of Colombia, 15 minutes nx, then Latin mx. (Curtis, VT)
  - ✦ atop WBAP w/female SS vocal, fast tempo, 0640 12/21. (Connelly, MA)
  - ✦ clobbered WBAP 1/5 0500 w/CARACOL jingle. (Jones, NJ)
  - ✦ very loud w/up tempo female SS vocal followed by CARACOL ID, ridiculously wide signal as usual 0721 2/15. (Connelly, MA)
  - ✦ fair-good 3/1 0622 w/WBAP off. Had EE and SS mx and CARACOL IDs. (Lazar, WI)
  - ✦ dominating channel, strong w/CARACOL and Río Cauca IDs 0222 3/14. (Connelly, MA)
- 820 ● CUBA, La Habana, CMCA, surely the one at 0245 9/6 w/varied SS songs, Habana mentioned in anmt 0300. Not // 690. WBAP weak and easily nulled for some reason. (Keleher, IN)
- ✦ fair 0100-49 9/29, SS Latin mx for a half hour 0130 speech in SS, frequent mentions of Cuba. Another SS station in the background. (Curtis, VT)
  - ✦ hrd station here 1/19 0456 IDing as "R. ...soncana" This on top of frequency. Also mention of "de la provincia de la Habana." (Nall, KY) (WRTH gives slogan for CMCA as "R. Cordón de la Habana" so your "soncana" is more likely Habana - ed)
  - ✦ dominant w/talk about Maoists, man and woman alternating in SS. Many mentions of Cuba, Angola, USSR and China. HJED way under 0010 3/14. (Connelly, MA)
- 820 MEXICO, Guadalajara, Jal., XEBA, in weak to fair w/lots of "El Gallito del 82" IDs and finally an XEBA call ID 1209 6/28. (Clements, CA)
- 820 MEXICO, Santa Barbara, Chih., XESB, thought to be the one fading badly 1303 MM 3/1. Apparent R. Mexicana ID. (Pejza, CA)
- 820 ? UNID, Is there some Latin American that's drifted a bit here? I often get a het w/1000 hz on WBAP and there seems to be two carriers when the BFO is on. No audio though. TVI? but no other noted especially on a MM. (Hall-Patch, BC)
- 822 ? UNID, SS station put a strange warbling het on HJED MM 2/2 w/WBAP off, after 1000 and up to 1040 when WBAP returned. It was exactly 822 as measured by vernier. (Martin, CO)
- 825 COSTA RICA, San José, TIOS, fading up 0742 7/19. Mostly mx, one number

- apparently in EE. "Titania" ID 0753. (Pejza, CA)
- \*"R. Titania" promo, electronic mx and song 0619 11/1. Fairly good signal. (Keleher, IN)
  - \*typical programming of woman IDing during song w/Titania 0310 11/4. (Abraham, MI)
  - \*semi-regular in evenings, up to S-7 as on 11/8 0500 w/US pops in SS, man ID as "Titania". (Seaver, CA)
  - \*logged w/loudest signal ever 11/10 playing SS and EE rock records. (Nittler, NE)
  - \*w/MoR in EE and SS w/Titania IDs by woman, 0637 12/22, strong signal compared to Belize-834. (Connelly, MA)
  - \*is gone, not noted all this year. Assumed routed by Peninsular, which is all alone here now. (Schatz, FL)
  - \*still here as SS pop mx was noted 0708 2/9. Woman gave brief anmt 0710. Format fits Titania, though Schatz reported them off a couple weeks ago. (Portzer, WA)
  - \*I doubt if Ron Schatz wanted to convey the impression that this is no longer on 825. It is and has been noted several times recently as on 2/11 0300 w/TUS pops and "Titania" ID by woman o/mx. No sign of Panamá yet. (Seaver, CA)
  - \*definitely Titania. Very strong IDing as "Titania" by SS woman during the beginning of every record, SS and EE rock mx, no other anmts except at 0545 hrd Titania and Costa Rica mentioned, 0530-0600 2/11. (Colyard, NJ)
  - \*was clearly dominant w/slow SS male vocal, then woman w/Titania ID, well o/R. Peninsula, which had man in fast SS, low audible het resulting 0455 3/3. (Connelly, MA)
  - \*3/24 0435, noted w/good steady signal w/SS and EE pops, woman saying "Titania" o/each song. (Hall-Patch, BC)
  - \*noted w/lively SS mx 4/26, song ended and was followed by long silence before woman finally yelled "Titania" at 0737. (Bytheway, WA)
- 325 PANAMA, Macaracas, HOR56, R. Peninsula noted w/ID 0310 7/11 following a wailing tamborito (local mx) that clinched the country. Often covering Titania. A move from 830 khz. (Schatz, FL)
- \*R. Peninsula hrd o/u Titania until 0600 s/off 11/27 w/good signals. About 70 or 80 hz away from Titania. (Foxworth, NY)
  - \*a suprise 0250 12/10. Was expecting Titania, but realized they seldom have long anmts, when the guy really yelled "R. Peninsula." Then lively SS songs, other "Peninsula" mentions. At 0309 "en Macaracas... noticias" and talk, soon overcome by assumed Titania playing "Solitare" song. (Keleher, IN)
  - \*ID at 0417 as "Aqui R. Peninsula," ss mx and anmts 0415-45 2/14. Fair signal, Titania not hrd, but other Costa Rican station were. (Colyard, NJ)
  - \*atop Titania w/SS talk mentioning Peninsula, followed by carnival type mx 0439 3/23. (Connelly, MA)

- 830 DOMINICAN REPUBLIC, Santo Domingo, HIJB, 10/11 0059 w/chimes "Este es HIJB" and mention of Dominicana, then continued SS pops. Another Latin underneath. WCCO lost in aurora. (Keleher, IN)
- \*1/2 0400 w/cuckoos on the hour, caught "hotah-beh" of ID on tape. May have signed off as heavy noise followed after which Venezuela was dominant on frequency. No sign of WCCO. (Jones, NJ)
  - \*atop second SSer w/Latin mx, talk, ID by call sign (a rather uncommon practice among Latin American stations) 0030 3/14. (Connelly, MA)
  - \*ID, midnight time check, s/off 0400 4/1. (Connelly, MA)
  - \*w/s/off and OC, second SS under, likely Venezuela, plus another Unid which had a rough warbling (FMing) het 0513 4/11. (Connelly a, MA)

- 830 HONDURAS, Tegucigalpa, HRSP, "R. Moderna, la súper, la gigante (echo)" 11/11 1100 s/on. Not even listed by FBIS, but found in old NRC Latin Log. (Schatz, FL)

- 830 MEXICO, Culiacán, Sin., XEVQ, 12/1 1325 w/"X-E-V-Q" ID 1350. However, also hrd ID as "R. Mexicana", mexiglenn list shows "R. Musical." (Lobel, CA)
- \*12/22 1320 good signal w/"XEVQ" and "R. Mexicana" IDs. (Lobel, CA)
  - \*1/12 0050 fair w/"X-E-V-Q" ID and soft mx. (Lobel, CA)
  - \*noted fair-good w/JOBB 1304 2/20 w/rancherita mx, man talk w/much mention of "radio-televisión" and "R. Mexicana" IDs. (Hall-Patch, BC)
  - \*w/mentions of Culiacán and R. Mexicana 1308 MM 3/1. (Pejza, CA)

- 830 MEXICO, México, D.F., XELA, noted w/call letter ID and chimes 0231 11/10. (Pejza, CA)
- 830 VENEZUELA, Los Teques, YVLT, R. Sensación good in aurora 10/13, tropical rhythms, several IDs and time checks, mixing w/Unid, likely Dominicana, no sign of WCCO. (Ball, ON)  
 \*on after I lost HIJB w/Latin mx and commercials. Still no sign of WCCO 1/2 0430. (Jones, NJ)  
 \*w/SS songs and "R. Sensación" mentioned 0407 and 0410 1/20, well o/WCCO for a while. (Keleher, IN)  
 \*in and out through the Hawaiian, some WCCO and WJAC slop. Upbeat Latin mx, many IDs, w/long deep fades 0016 1/25. (Cartwright, PA)
- 834 BELIZE, Belize, R. Belize, 0450 in EE w/trumpet mx 8/13. This is one of the rare cases where medium wave reception is better than short wave as the // of 3300 is always covered by TGNA. Usually hrd w/fair strength. (Szot, CA)  
 \*now on 834.008 w/10-30% modulation 0210 8/23, a move from 834.044. (Schatz, FL)  
 \*0508 9/3, may have been s/off, anthem like mx, then anmt giving frequency and asking people to write to R. Belize. Address followed but garbled by WJR's trumpets. Nothing hrd after that. (Keleher, IN)  
 \*good in aurora 10/13, het ex 830, 0300 ID "This is R. Belize, Voice of the new Central American nation of Belize in the heart of the Caribbean basin," then into EE nx. (Ball, ON)  
 \*0343 10/20 w/classical mx. Strongest signal yet from R. Belize, S-7. (Hanavan, CA)  
 \*ID in EE 0147 11/6, time checks given 2 minutes fast. Good signal. (Abraham, MI)  
 \*hrd in SS 2346 11/8, ID in pgm of mx. (Foxworth, NY)  
 \*w/s/on 1200 11/14, after voice anmt some sort of anthem. Hets present, carriers on 833 and 835, but no audio, 835 presumed China. (Pejza, CA)  
 \*on late w/prize fight 11/17, s/off 0535. (Nelson, MA)  
 \*noted in passing 12/13 0306 w/nx in EE. Fair signal, het w/WCCO. Noted stronger than WCCO w/nx in EE and SS 0202. (Hall-Patch, BC)  
 \*12/19 0003-0130 fair-poor w/hets and splatter from WNYC/WHAS. SS to 0030 then EE woman and man ancrs, frequent time checks, IDs "This is R. Belize ... " frequent commercials, 0100 nx at 7:00 national and international, woman gave headlines, 0102 man gave nx details, 0109 commercial and woman gave headlines again, 0110-0118 nx in SS, 0125 sports, 12/20 in again about the same. (Curtis, VT)  
 \*really ripping w/local strength 1212-17 12/27. Had rooster crows 1212, 1216 and man in EE w/vocal EE MoR. (Rittenhouse, CA)  
 \*ending nx in EE from BBC, wx, spots, then into SS nx beginning "R. Belize la voz de la nuevo nación..." 0118 1/19. (Keleher, IN)  
 \*at good level w/big-band jazz 0437 2/25. (Connelly, MA)
- 835 ? UNID, SS 2302-2305, dropped out, then 2324-2400 9/16, rock type Latin mx w/rapid SS talk, fading, and splatter from CMVL. 2347 played mx w/1-2, 3-4, etc., poor, 2400 WHAS takeover. Belize should be in daylight at this time so who is it? (Curtis, VT) (Belize has SS sked for this time period and their local sunset would have fallen during that time period. Can't recall any other Latin Americans on this frequency. Two Spaniards listed on 836, too - ed)
- 840 CHILE, Valparaíso, CB84, R. Portales absolutely blasting in loud and clear 1144 7/5 w/nx and "Noticias en Emisora Diego Portales de Chile" followed by several R. Portales IDs. Sun is just about to come up-- wonders never cease. (Clements, CA)
- 840 MEXICO, Celaya, Gto., XEFG, R. Juventud in excellent w/complete ID 1158 7/5. (Clements, CA)  
 \*s/on hrd 10/13 w/hummed vocal "anthem", then Mexican mx and Juventud SIDS (Korn, CA)  
 \*apparently the strong SS o/WHAS 1113 12/29 w/SS talk, then R. Juventud jingle and SS pop mx. (Portzer/Bytheway, WA)  
 \*w/SS ballads, R. Juventud ID 1245 2/28. (Pejza, CA)
- 840 t PANAMA, Panamá, HOL80, suspect this was the one hrd 12/22 1245. Thought I hrd a female voice say in SS "R. Libertad" but was slurred so not sure. Tentative report out. (Lobel, CA)

- 840 SAINT LUCIA, Castries, Lovis Aubree reports that R. Caribbean is soon due to broadcast both in French and English, using two frequencies. Radio Caribbean increased power to 20 kw and operates 0915-0300. (MWN)
- 850 COLOMBIA, Bogotá, HJKC, o/u WHDH OC w/CARACOL, "el voz en el camino" ID, 0630 12/22. (Connelly, MA)  
 \*u/WHHD w/fast SS vocal // 820 0804 2/15. (Connelly, MA)
- 850 GUATEMALA, Cuatemala, TGX, R. Ciro, w/mentions of Guatemala and spots for radios sold in Guatemala City 3:24 time check 0924 7/5. Weak w/strong low frequency hets. (Clements, CA)
- 850 MEXICO, Chihuahua, Chih., XEM, 12/22 1230 w/"La Eme, R. Moderna" ID u/KOA null. S-9 signal, KOA overpowered at 1235 but quickly yielded. (Lobel, CA)
- 850 MEXICO, Mexicali, B.C., XEZF, 12/8 probably the one hrd u/KOA w/mucho slop from XEMO-860. Insufficient for report to station due to XEMO slop. (Lobel, CA)  
 \*5/9 1245 w/ranchera mx and something about Calxico. Good ID as "X-E-2-F" w/1259. Ancr was a deep voiced female. (Lobel, CA)
- 850 PUERTO RICO, Aguadilla, WABA, punched right through KTAC, KOA's OC 0959 10/27 w/boss radio type "W-A-B-A, Aguadilla" SID, voice ID, another identical SID, time check and spot for some magazine or newspaper. (Korn, CA)
- 851 CUBA, Holguín, CMDC, atop w/monotone talk // 600 etc., 0935 8/4. (Francis, TN)
- 354 PERU, Lima, OAX4A, R. Nacional de Perú in weak to fair in noise and 860 slop w/soft mx. Noise level made IDs difficult. Good earlier part of evening 7/6 0400-0600. Back 0929 w/"Esta es R. Nacional de Perú 4:29" and less slop. (Clements, CA)  
 \*was in w/excellent signal 0940 9/15. Pgm was of Indian type mx (lots of woodwinds, etc.) Armchair copy until 0955 beginning of fadeout. (Peterson, CA)  
 \*0155 w/Latin mx, fair readability but had improved two-fold by 0211 w/very good strength. ID as "R. Nacional" 10/11. (Szot, CA)  
 †assumed to be the one noted in passing 0610 10/13 w/nondescript Latin mx and no slop from semi-local KTAC-850. (Portzer, CA)  
 \*11/3 0538 w/Andean mx and R. Nacional IDs. (Keeney, KS)  
 \*1006 11/17 w/Indian-type mx, ID, and "Aqui esta este flor de los Andes." (Korn, CA)  
 †good w/Andean mx and SS talk through KTAC-850 slop 0910 12/28. (Portzer, WA)
- 854 ? UNID, SS talk and mx at fair level in WHDH slop 0802 2/15. Lima most likely as this was during an LA dominated morning, Dakar-764 the only strong TA at the time. (Connelly, MA)
- 860 BRAZIL, Rio de Janeiro, ZYD68, in well w/"You" by George Harrison, followed by man in PP w/"Mundial" ID, good 0755, fading u/Clarín by 0757. 2/15. (Connelly, MA)
- 860 CUBA, La Habana, CMBL, 10/13 0032 w/anmt by woman, "transmite B-L, Radio Internacional," then "Cuba, territorio libre" thing. More Cubans not really needed, but this is the first time I recall hearing anything like call letters from one of them. Was looking for Clarín. (Keleher, IN)
- 860 DOMINICAN REPUBLIC, Santo Domingo, HILR, w/usual lively mx, then long promo ending in "R. Clarín, en Santo Domingo, la capital de la Republica Dominicana" 0632 11/9. (Keleher, IN)  
 †hrd 1022-36 11/16 bragging about their power, "R. Clarín, la de mayor potencia en este pais...." Announced 50 kw. IDs frequently and likes to use an IS which remotely resembles a ray gun from 1950's science-fiction movies. Also hrd 0928 11/17. (Korn, CA)  
 †noted back on AN sked 12/6. Logged 0846 w/plug for Pres. Balaguer and Instituto Dominicana Agraria. Repeated at 0900. (Stanbury, ON)  
 †in XEMO null 0515 12/26 w/lively Latin mx, several IDs, mention of Dominican Republic // 4850. (Ball, ON)  
 †really booming in 1/1 0757-0803 w/many IDs, 0757 apparent mail call, mentioning listeners (DXers?) in Philadelphia, Miami, and New York, 0759

- recorded government New Year's message w/background mx "Hark the Herald Angels Sing," 0802 very full ID giving frequencies etc. for tape file. (Ball, ON)
- \*R. Clarín fair 1/5 0932 w/"Clarín Informativo" nx pgm. (Lazar a, WI)
- \*rose atop Brazil, became clearly dominant by 0800 2/15 w/fast SS mx w/ male vocal and accordian accompaniment, then R. Clarín IDs. (Connelly, MA)
- \*hrd mixing w/1YZ 2/16 0930-50, ID at 0944. Only second Dominican Republic station here. (Seaver, CA)
- 860 MEXICO, Durango, Dgo., XEDU, s/on 12/13 1302 w/NA, several call IDs, power, etc. before XEMO s/on. First Durango station for me. (Seaver, CA)
- 860 MEXICO, México, D.F., XEUN, w/classical mx and anmt giving calls 0644 11/1. Seldico reported. (Keleher, IN)
- 860 MEXICO, Tijuana, B.C., XEMO, 0809 9/1 noted in passing w/religious songs, ID "... XEMO, eight-sixty on your dial, the great Christian beacon of the West." If KFI were this strong, I'd think it was a fair night for the west. (Keleher, IN)
- \*EE religious pgm "Word of God" 0530, ID 0615 as "XEMO, the great Christian beacon of the west," fair signal w/some deep fades, 0530-0620 2/13. New one!! reported. (Colyard, NJ)
- \*now becoming a regular w/the SM-1, clear through almost every morning when R. Clarín is off. (Cartwright, PA)
- 860 PANAMA, Chitre, HOL55, R. Reforma, good and alone at 0930 s/on w/NA 10/13 Sounds like a lot more than 1 kw. (Francis, TN)
- \*logged atop the channel 11/5 from 0935 s/on past 1010 and getting stronger. Meanwhile, R. Clarín has apparently ceased all night operation although, based on short wave operation, the all night operation seems to be erratic recently. (Stanbury, ON)
- \*hrd fair 11/28 1015 tune-in, mention of Panamá, "R. Reforma de la noche" ID. (Seaver, CA)
- 860 ? UNID, probably Panamá s/on here 2/16 0952 w/bouncy guitar instrumental mx (no anthem,) some talk, unreadable due to 1YZ, Clarín, and noisy cx. (Seaver, CA)
- 865 ? UNID, 0110 10/11 carrier, maybe w/some audio but too much splatter for any readability. Latin? (Szot, CA)
- 870 ARGENTINA, Buenos Aires, LRA, 4/3, series of pips hrd 0900 w/WWL off but static too heavy for any clear taping. The tape has the pips but cx were too noisy to determine if they were in the distinctive LRA style, 5 short ones and the sixth prolonged, as hrd several years ago. At 1000 same date, no pips noted on hour but may have been too late for Argentina by then. WWL was silent every morning these hours 4/3-4/6. Cuban noted there 4/6, maybe taking to the air at 0800. (Martin, CO)
- 870 CUBA, Guantánamo, CMDN, here w/WWL off 0743 2/1. SS talk w/frequent mentions of Cuba. ID by woman 0748. (Bytheway, WA)
- \*here in WWL silence 0725 MM 2/2. WWL returned a bit later and seemed to spend next few hours running OC and test tone until beginning regular schedule. (Martin, CO)
- \*annihilating WWL w/man and woman giving SS talk about socialism, bad low het present 0735 2/15. (Connelly, MA)
- 870 MEXICO, Morelia, Mich., XELY, suddenly s/oned w/no anmt. Uses "L-Y" IDs w/Y pronounced as Yeh. Excellent 1155 7/5. (Clements, CA)
- 870 PUERTO RICO, Hato Rey, WHOA, 2/9 w/ID into nx 1000, sports and wx 1007, SID into mx. All EE. Easy w/WWL off. Some interference from Unid SS. (Keeney, KS)
- \*topping WWL/Cuba w/"Tommy" theme by the Who, then EE ID "87-HOA, the entertainer," time check 11:40, then Stylistics record 0340 3/15. (Connelly, MA)
- \*was hrd here 4/3 at 2227 w/rock song "I Want to Hold Your Hand" in EE. It was followed by an ID at 2230 in EE. Then followed by another song in EE. (John Colyard, NJ)
- 875 ? UNID, another carrier, of course no audio, 0315 10/11. (Szot, CA)
- \*man in fast SS poor-fair in WCBS atop 0422 1/5. (Connelly, MA)

- 380 **BRAZIL**, Belo Horizonte, PR13, WCBS silent for quarterly maintenance check 0800 3/1 and Cuban up high as usual. This week they seemed to be right on frequency. A 4 hz SAH 0805 and PP audio came up briefly, am 90% sure it was R. Inconfidencia. WCBS went on w/dummy load antenna just then (which is hrd S-6 here, blocking channel,) sharp loop null on Cuban allows no room to play. A careful check for any sign of New Zealand was negative, there seems to be possibility that early per sunrise/sunset maps. (Foxworth, NY)
- +bits of mx and PP hrd at intervals 0710-30 4/3 w/the Cuban running an OC while WCBS was knocked out entirely by extreme auroral cx. Was not noted after 0730 but after 0800 New Zealand seemed to be showing up here. It has been 6 years since I last collected a sample of Brazil and New Zealand on the same tape. (Martin, CO)
- 380 **CUBA**, Pinar del Rio, CMAF, here 10/10 0501 w/R. Habana Cuba ID. On top of channel. (Nall, KY)
- +in the clear 1037 11/16 w/"R. Progreso, Cadena Nacional" logo and lively jingle or mx. I believe they are the one hrd here most mornings w/soft KABL-type instrumental mx. (Korn, CA)
  - +noted w/slow SS songs // 690, 12/6 0200, fadey evening. Came up for chime and ID 0230, "R. Progreso Cadena Nacional... Habana, Cuba... primero territorio," etc. Progreso //s are monitored by setting small hand-held receiver to CMBC-690, but I turned its volume down to hear this on 880, it wouldn't be fair to hear it on 690. (Keleher, IN)
- 380 **GUATEMALA**, Guatemala, TGJ, R. Nuevo Mundo, blasting in while the sun is still high in the sky and no trace of KRVN. Just finished a long sports commentary called "Guatemala Deportiva" 0242 6/28. (Clements, CA)
- 80 **MEXICCO**, Tequila, Jal., XETZ, Radio pun in good wish R. Felicidad and ecstasy IDs and time checks. (Clements, CA)
- 80 **PERU**, Lima, OB24N, R. Unión, strong 0845-0905 12/10 w/IDs as "Unión en el Camino" and "Unión, la Radio." At 0904 they began a pgm called "Buenos Dias, Perú," hrd same pgm 0900 last 4/8. (Korn, CA)
- 380 ? **UNID**, 1040 4/5 two Latin American stations here. Won't speculate but noted that OBX4N and the Cuban have both made it to Southern California. Both were playing soft mx making ID more difficult. KRVN testing, then s/on at 1100 made ID even more impossible. (Lobel, CA) (I'm about 95% sure one of them was the Cuban - ed)
- +SS w/Radio Cadena Nacional IDs 1044 6/14. Sounded like a newscast w/man and woman alternating. In until KRVN s/on around 1100. (Bytheway, WA)
- 885 **MONTSERRAT**, Plymouth, ZJB, w/mx 0251 11/6, s/off 0301 "Zed-J-B is owned by the government of Montserrat," also gave frequency, s/on 0600 local, mailing address same as WRTH. Then prayer, GSQ, and off. Has been noted here before, format is mostly ballads of the 40s and 50s, with some Beatles-style rock. Finally got a good taped s/off, WLS polite for once. (Keleher, IN)
- +believed the one noted running late w/cricket matchm as was Dominica-595, this 0515-35 1/5. (Keleher, IN)
  - +here 2/2 1026-35, ID as "ZJB Radio" and Atlantic Standard Time time ckeck This serves me as a bell-weather for other Caribbean stations. Does anybody else note a signal enhancement around ionospheric dawn on these stations? This and 1165 and 1265 are usually very low (only hets some-times) until about 1030 (in winter), then signal improves tremendously for 10-15 minutes. (Seaver, CA)
  - +strong w/EE nx 0001 2/29. Little slop from WCBS. (Eckman, PA)
  - +poor in noise w/"Puppy Love" by Paul Anka 0246 3/4. Hrd w/man in EE at fair level in merciless noise barrage from storm off North Carolina coast 0050 3/10. (Connelly, MA)
  - +poor to fair w/ID in WCBS slop 0030 4/2. (Connelly, MA)
- 885 ? **UNID**, R. Progreso, Cadena Nacional ID 0300 11/6. Good signal. (Abraham, MI)
- +noted here w/what sounded like a hymn 0855 12/26 then muffled talk, too weak to tell language. In and out w/bits of mx, peaked around 0930 w/what sounded like pop or soul mx, didn't sound like usual Latin fare. Signal ranged from poor to inaudible w/bad WLS/KIXI slop. Montserrat suspected but they're not supposed to be on until 0945. Help, East Coasters?? (Portzer, WA)

- 890 ● COLOMBIA, Bogotá, HJCE, La Voz de Bogotá, weak w/interference from R. Libertad 0800 7/5. (Clements, CA)  
 \*good w/WLS off 0656 9/29, NBC-like chimes, anmt "somos TODELAR, somos profesionales, somos La Voz de Bogotá." The several long speeches and MoR-ish SS songs. (Keleher, IN)  
 \*10/14 0530-0605 taking over from Venezuela w/fast vocals, nx headlines 0600, then into romantic sounding vocals w/a very sexy sounding woman. (Cartwright, PA)  
 \*poor to fair MM 1/5 0628 w/WLS off. Frequent IDs and time checks, one ad hrd for Vermouth Regali. (Lazar a, WI)  
 \*potent w/TODELAR ID, old NBC-type chimes, then clear La Voz de Bogotá ID, hardly a trace of WLS or Algeria, 0728 2/15. (Connelly, MA)  
 \*good at times 2/16 0710, 0726 IDs, WLS weak. (Seaver, CA)  
 \*dominant 3/11 0140-49 w/Latin mx, ads, several good La Voz de Bogotá IDs, WLS weak at least one other Latin there too, presumably Panamá. (Ball, ON)
- 890 EL SALVADOR, Santa Ana, YSLA, R. Musical fading in weak to excellent 0200-0400 6/28 w/lots of R. Musical IDs and frequent mentions of Santa Ana and El Salvador. They also use something like "su esquivál de exitos ... " and I would swear their ID is R. Mundial. If it is then WRTH is wrong. Can any of you East Coasters confirm any way or the other. (Clements, CA)  
 \*fading in w/slight het w/lots of R. Musical and Su esquivál (?) de exitos IDs 0210 7/5. (Clements, CA)  
 \*the mystery phrase cited above for this station is probably "su festival de exitos" which is "your festival of hits." (Taylor, IN)
- 890 GUATEMALA, Escuintla, TGHU, first noted 10/1 w/"Guatemala Musical" pgm 0316. On 10/8 s/off at 0501 w/repeated "Buenos noches Guatemala" but no positive ID in WLS null. On 10/10 0248-56 a woman giving "la mundial" IDs after each song, also an ID sequence "da-da-de-da-da... da-da" (like you'd knock on a door) prominent. On 10/17 more "la mundial" and knock-knock, then a good R. Escuintla ID 0401. Same strength as TGJ so probably 10 kw now. New for me! (Seaver, CA)
- 890 PANAMA, David, HOL81, R. Guainí seems to be the new name of this one, as "accidentally" IDed 0402 9/9 while adjusting LSCA-2. Overdid the word "Chiricana." Could be a frequency change or the Libertad chain broke up. (Schatz, FL)  
 \*1/12 0850 hrd "R. Libertad" ID and excellent signal, S-8 and very steady w/soft MoR mx and female ancr. Gone by 0903 only to return 0904:45 w/slow version of song "La Bamba" followed by "C'est Ci Bon" in SS. Gone again 0908 and not hrd again. (Lobel, CA)
- 890 ● VENEZUELA, Valencia, YVLW, R. América, in the clear 10/14 w/heavy aurora and WLS nulled. SS vocals and a good ID 0245. (Cartwright, PA)
- 890 ? UNID, something here way u/Colombian 10/14 0530-0600 faint but persistent ID just past 0545 "R. (Ratá)." Definitely was 2 syllables w/the accent on the last one and both vowels being "a". Hard to make out any mx but did have 5 minutes of news 0600-05, undiscentable anmts 0605. Did hear 5 pips around this time, don't know if it was theirs. They were evenly spaced and pitched, except for the fourth which was higher. (Cartwright, PA)
- 895 ? UNID, Haiti probable, per Gordon Nelson tip I checked this channel and turned up bouncy Alpine-type accordian mx, poor to fair in bad CKTS slop 0220 1/20. Gordon Nelson direction finder suggests the Haitian, although a Peruvian was first suspected. (Connelly, MA)
- 900 ● BARBADOS, Bridgetown, R. Barbados, very clear o/Unid SS and no CHML during aurora, nx at 0000 from 0005 to 0020 when it faded 10/6. (Cartwright, PA)  
 \*fairly strong w/CBC nx 0302 10/13, many Barbados items, some from Caribbean and other countries. Must have been a lot of nx, at 0310 they just said "this has been the ECB nx," then brief trumpet flourish and off An about-100-hz het on this channel makes listening difficult, but probably not from CBC unless they leave OC on all the time. (Keleher, IN)  
 \*EE interview w/sports commentator, religious pgm from church in Black Rock, good level 0145-0235 11/13. (Colyard, NJ)  
 \*noted well around 2330 11/24 and into 11/25 w/schmalz mx, bingo by radio, etc. IDs only as "CBC Radio" and faded quite a bit but was very good and

clear on peaks w/only slight CHML in background and, in contrast to other auroras, no sign of either Mexico or any South American station. (Foxworth, NY)

\*0307 1/20 ending CBC nx, then brief religious message and anmt "You are tuned to R. Barbados, serving the eastern Caribbean... good night." Then off. Never seems to s/off the same way. (Keleher, IN)

\*2/9 s/on 0930 "Good morning to listeners in Barbados and the eastern Caribbean, the National Anthem of Barbados." Short s/on anmt followed and into hymns. (Keeney, KS)

\*hrd w/very good signal various times from 2322-0100 2/14-15. ID at 2330 was CBC Radio w/mention of AM and FM (98.1 Mhz?) outlets. National bingo game in progress when checked at 0025. Interference from Cuban. ID at 0100 was R. Barbados by woman. (Eckman, PA)

900 COSTA RICA, San José, TIRF, Estación X fair through thunder w/R. Equis ID 0645 7/7. (Clements, CA)

900 CUBA, Ciego de Avila, CMJV, in very strong 0610-25 w/frequent mentions of R. Liberación. This station is listed per Cujamatien list and '74 WRTH as 1 kw. 11/15. (Hogan, IN)

\*hrd u/Barbados 2330 2/14 w/R. Liberación IS. Atop channel at times covering Barbados. If still 1 kw seems like decent catch. (Eckman, PA)

900 MEXICO, México, D.F., XEW, 1145 10/6 w/a very strong signal and many IDs as "Eh-kees eh double oo." Male ancr, hrd until 1200 when local KDEO-910 came back on and slop was just too much. (Lobel, CA)

\*12/22 1220 w/good ID and S-9 signal, KDEO-910 off. (Lobel, CA)

\*thought I had Cuba 3/3 0626 when anmt as R. Liberación, but then XEW calls given at 0629 and s/off. (Nittler, NE)

905 COLOMBIA, Cartegena, HJAF, 12/1 0202-30 and 12/2 0000-10 obviously Colombia as most nx datelines are Bogotá, 0000 international nx including tape of President Ford's speech, frequent mx commercials, seems to follow format of many US stations w/international nx, then local nx, full hour of nx, thought I hrd R. something in Bogotá? Some hets but very good at times. (Curtis, VT) (see also 908, 919 and 920 - ed)

905 EL SALVADOR, San Salvador, YSQJ, w/SS ballads, "Radiópolis" mentioned after each, 0236-39 1/19. A good little 1 kw. (Keleher, IN)

908 COLOMBIA, Cartegana, HJAF, Emisora Fuentes badly detuned from normal 920 khz as on 11/14 on, leaving R. Popular dominant on the latter. (Schatz, FL)

\*station here IDed as Emisora Fuentes, Cartegena at 0048 11/18, also at 2355 11/22. Fairly clear the first date, but bad FMing, distorted other times hrd. (Foxworth, NY) (see also 905, 919 and 920 - ed)

909 CUBA, Camagüey, CMFA, Cadena Agramonte here from 910. Good days w/o het (WPLA-910 is faint) but really screams at night. 7/10. (Schatz, FL)

909.4 UNID, slow SS talk here, no IDs 0407 3/15. (Connelly, MA)

910 CUBA, familiar Cuban chime IS in and out of bad jumble 0237 3/14. (Connelly, MA)

910 MEXICO, Mexicali, B.C., XEAO, w/call ID through KNEW OC 0835 10/23. KNEW back on 0840, completing "technical adjustments." (Korn, CA)

\*10/27 1000, S-2 signal w/ID and interference from KJJJ. KDEO off the air (Lobel, CA)

\*unusually strong u/local KNEW 0610 12/21 w/ranchera mx. Like \$\$\$& and they're 250 watts!! (Rittenhouse, CA)

\*3/1 1230 w/R. Mexicana, XEAO ID in null of KDEO OC, KJJJ giving strong competition. (Lobel, CA)

910 VENEZUELA, Maiquetía, YVRQ, atop jumble w/Aeropuerto ID by woman, time check, then disco-rock 0752 2/15. (Connelly, MA)

\*fair to good 2/16 w/EE and SS rock. After each record woman ancr said, "R. Aeropuerto de la hora," two chimes, then time. A male ancr there at times 0653-0715. Slight WSBA and other interference. (Mount, NJ)

919 COLOMBIA, Cartegena, HJAF, Emisora Fuentes o/all domestics and causing wicked het 0213 11/10. Long talk by man perhaps an "Editorial," several mentions of Colombia and Fuentes. (Keleher, IN)

- +11/7 2345 first showed, 2357 very good, 11/8 0000 SS nx w/frequent spots, rapid SS talk, frequent datelines Bogotá and frequent mentions of Colombia, 0030 he's took over. (Curtis, VT)
- +SS talk here 0029 12/23 hetting WJAR/CJCH/Popular-920. Likely the station formerly on 908. (Connelly, MA)
- +another bit of ear torture here evenings. Usually o/Popular-920. (Schatz, FL)
- +likely the TODELAR outlet here at good level w/SS talk about universities in Colombia 0424 2/16. (Connelly, MA)
- +presumed the one here w/female SS vocal, based upon earlier monitoring, was good 0410 3/15. (Connelly, MA) (see also 905, 908 and 920 - ed)
- 920 **COLOMBIA**, Cartegena, HJAF, 0240 11/6 fair w/WMI at times interfering. Colombian mx w/man ancr whose favorite phrase is "buena música". Mentions of Colombia and the TODELAR network. (Abraham, MI) (see also 905, 908 and 919 - ed)
- 920 **DOMINICAN REPUBLIC**, Santo Domingo, HIBA, R. Popular briefly way o/Fuentes 0430-40 10/12 w/loads of Dominican style SIDs and merangue mx. Likely HIBA, listed as R. Reloj. (Schatz, FL)
- +fair to good u/KARN/WMEL w/merangue mx and "la hora popular" Atlantic Standard Time time check 0926 11/24. (Francis, TN)
- +R. Popular ID, fast SS mx noted u/WJAR 0750 2/15. (Connelly, MA)
- 920 ? **UNID**, 10/29 0200-20 think this is probably a Colombian, as many mentions of "de Colombia" during what sounded like a soccer game. No Colombians listed for here. Clear signal mixing even w/WMMN/Unid CBS station. (Cartwright, PA) (Sounds like HJAF, Emisora Fuentes - ed)
- 925 **COSTA RICA**, San José, TICM, "Música Juvenil" in strong w/US rock songs. Suffers from murderous KHJ slop 0855 7/8. (Clements, CA)
- 930 **MONTSERRAT**, Montserrat, tentative here on R. Antilles 10/6 0025. For a moment I had a strong signal w/EE accented man, then into SS vocal as it faded forever. (Cartwright, PA)
- + "R. Antilles" SID in EE 11/16 1000. Quite weaker than 740! (Schatz, FL)
- 939 **GUATEMALA**, Guatemala, TGTL, hetting WINZ, man in SS read off several addresses in Guatemala 0755 4/1 whence good peak noted, faded later. (Connelly, MA)
- 940 **COLOMBIA**, Cali, HJGB, very dominant (CBM off) w/TODELAR network ID, chimes, then R. Eco ID and a list of addresses and telephone numbers 0730 2/15. (Connelly, MA)
- 940 **MEXICO**, Mexicali, B.C., XEWV, 10/10 0050 w/R. Capital ID then what sounded like a phone conversation. (Lobel, CA)
- +11/21 2120 w/strong signal u/mucho slop from XEGM-950. ID as R. Capital. (Lobel, CA)
- 940 **MEXICO**, México, D.F., XEQ, in well o/u CBM in unusually good Mexican opening, background mx such as instrumental version of "My Favorite Things" played, SID and SS talk occasionally noted 0515 12/24. XEW-900 also in at the same time. (Connelly, MA)
- +o/u CBM w/lively talk, ID, then woman w/broadway musical style SS vocal 0249 3/4. (Connelly, MA)
- 940 **VENEZUELA**, Punto Fijo, YVNW, 9/6 0550 w/long-winded promo, Punto Fijo mentioned several times, ID near end as "R. Punto Fijo, de la Cadena Nacional Rumbos," fair o/KIOA. (Keleher, IN)
- +10/29 0144 clear w/CBM nulled and some XEW/WINZ. Long SS monolog, then 0155 hrd ID as "R. Rumbos Cadena Nacional." Keleher's report above reports ID as "R. Punto Fijo, de la Cadena Nacional Rumbos." Same message, but mine had no mention of Punto Fijo. (Cartwright, PA)
- +R. Punto Fijo, 0220 11/6 good w/Venezuelan mx. (Abraham, MI)
- +0911 12/29 in good w/R. Punto Fijo IDs. (Harang, CA)
- +mentioned "R. Rumbos" during break in (I think) soccer game 0211 1/20. YVGT-1110 believed the one hrd w/game shortly before this. (Keleher, IN)
- +atop channel w/Venezuelan NA at s/off 0356 4/2. (Connelly, MA)
- 945 **HONDURAS**, Tegucigalpa, HRYW, faded up fair 0330 9/17 w/familiar instrumental mx, anmts by man and woman, mentioned "La música de Panamericana."

- Only really good split hrd this evening. (Keleher, IN)  
 \*"Panamericana" ID 0253 11/6, fair, slow Latin mx. (Abraham, MI)  
 \*SS anmts and Latin mx, ID 0405 as "Panamericana" fair signal 0400-25 2/8. (Colyard, NJ)
- 945 ? UNID, SS here w/Latin mx and fast SS talk 0945 1/12 w/local KJR off. Wiped out when KJR put OC back on at 0958. (Bytheway, WA)
- 350 MEXICO, Tijuana, B.C., XEGM, strong in near-total KJR null w/"R. 95," XEGM IDs and mention of Tijuana 0500 1/14 followed by nx. Often noted before, but usually too much KJR for ID. Also "R. Noticia" mention, but presumably this applied to nx. (Hall-Patch, BC)
- 950 ? UNID, strong signal fighting KPRC w/SS rock mx 0903-30 but no ID given, ID of records by man after each recording, door-bell chimes, but no ID spoken by man, hrd 3/1. Can anyone help me ID this one? (Gerardi, IL) (I hrd XEFA about this time a year ago w/similar format - ed)
- 353 CUBA, Guantánamo, CMDJ, R. Progreso here from nominal 950 7/10. About equal to Carrillon-956 evenings. (Schatz, FL)
- 360 COLOMBIA, Magangué, HJHN, R. Sutatenza noted again w/good signal after being "Absent" for several months. They might have a directional antenna system. IDed 0300 7/11 w/usual "Zip-a-dee-Doo-dah" theme and "en Barranquilla y Magangué" // 1010. (Schatz, FL)  
 \*in nicely o/domestics in aurora 10/13, clear ID "R. Sutatenza de Colombia ... " taped 0029. (Ball, ON)  
 \*11/17 fair o/WEAV w/R. Hora Sutatenza ID like HJCY-810 has, then SS mx show, frequent door-bells, male anc 0900-15. (Mount, NJ)  
 \*w/R. Sutatenza ID strong atop CHNC/WFGL 0328 1/20. (Connelly, MA)  
 \*strong, atop CHNS w/fast SS male vocal having accordion accompaniment, then Sutatenza 0225 3/14. (Connelly, MA)
- 460 MEXICO, Ciudad Obregón, Son., XEIQ, excellent w/R. I-Q IDs by woman w/light interference 0350 7/7. (Clements, CA)
- 365 NICARAGUA, Managua, YNLU, noted w/slow SS songs (opera, perhaps) 0316 1/20. "R. Managua" mentioned several times in promo 0327. Poor signal for listed 10 kw, have been trying for an ID from this one for about two years. (Keleher, IN)
- 370 MEXICO, Ciudad Juárez, Chih., XEJ, 0525 10/6 w/a very overpowering S-9 to 10 signal (stronger than local KSON-1240.) Typical Mexican mx and laughter. Many IDs. (Lobel, CA)  
 \*hrd "R. Mexicana" ID 0835 1/25. Fair to good mostly dominating channel w/KOIN off. (Hall-Patch, BC)
- 370 VIRGIN ISLANDS, Christiansted, Saint Croix, WSTX, w/fine signal except for some WWDJ interference 1/12 2243 w/strange gospel-reggae mx, nx headlines 2245, more mx 2251 and American-type SID 2254, all in EE. (Allinson, NC)
- 170 ? UNID, SS talk, no IDs, strong level 0405 4/2. Faded u/WCSH 0410. (Connelly, MA)
- 375 COSTA RICA, San José, TIRS, "R. Centroamericana," ex "Atenea." 5/22. (Schatz, FL)
- 375 ? UNID, Andean-type mx 12/8 1025-33, some talk, no ID hrd. Probably Ecuador. (Seaver, CA)
- 380 COLOMBIA, Cali, HJES, way atop presumed WRC w/loud reverberated "R. El Sol" IDs 0745 2/15. (Connelly, MA)
- 380 MEXICO, Navajoa, Son., XEKE, La Favorita obliterating all traces of KFVB "XEKE, R. Favorita" ID 1208 7/8. (Clements, CA)
- 380 MEXICO, Nueva Rosita, Coah., XENR, s/off o/KFVB, good 0706 7/7. (Clements, CA)
- 390 MEXICO, La Paz, B.C.S., XEHZ, up 11/8 0502 w/call ID. XECL/KKIS interference. (Seaver, CA)
- 390 MEXICO, Mexicali, B.C., XECL, 11/21 2140 w/good "R. Mundo" and "X-E-C-L,"

- Mexicali" ID. (Lobel, CA)  
 +12/11 0353 hrd w/"X-E-C-L, Radiorama" ID, Mexiglenn log says "R. Mundo."  
 (Lobel, CA)
- +0012 6/16 w/rock mx and ID as "Radiorama" improvement w/better geo-  
 magnetic activity, fair w/apparent CBW troubles. (Newell, BC)
- 990 t MEXICO, Monterrey, N.L., XET, most likely the one w/male SS vocal and  
 Central time check by woman 0908 1/19. Format and time fit. Heavy 3 hz  
 SAH w/nulled KXIS. (Portzer, WA)
- 990 VENEZUELA, SS talk, several mentions of Venezuela, fair o/other stations  
 0600 3/14. (Connelly, MA) (Two Venezuelans listed on this frequency,  
 both w/10 kw - ed)
- 990 ? UNID, ID as "La Voz de Alexandra - Deriendo," potent and alone on channel  
 2340 1/11. (Connelly, MA)
- 995 ECUADOR, Guayaquil, HCEW2, R. Suceso in good 0239 w/time check and rock  
 mx and spot for store in Guayaquil. Noted back around 1045 w/quieter mx  
 absolutely blasting in. Had many mentions of Ecuador and Ecuadorian  
 cities in a speech "Amancer en la tierra" 7/5. (Clements, CA)  
 +semi-regular evenings up to 8-7 10/30 0328 w/ID. 10/31 0445. (Seaver, CA)  
 +weak w/SS talk 0420 3/15. (Connelly, MA)
- 1000 BRAZIL, São Paulo, PRB9, maybe, had slow soft instrumental mx like 860  
 around 0900 11/3, and briefly, soon faded, local sunrise there. Most  
 Latin mx not this downtempo. (Sherman, MN)
- 1000 COLOMBIA, Cartagena, HJAQ, 1054 2/2 w/RCN ("ereh-seh-ena") mention, then  
 shakey high chimes w/odd noises, then "para la señal nacional y inter-  
 nacional de RGN, la radio de Colombia, ... la interior... programa en  
 frecuencia..." and more chimes. Clear (even though my SS is poor) and  
 hefty signal. This is 10 kw?? (Hall-Patch, BC)  
 +Voz de Cartagena now 30 kw per anmts. (Schatz, FL)  
 +extremely loud, annihilating CKBW. They played the number one hit on  
 Colombian stations, a song w/the words "la Marina" in it and a horn riff  
 stolen from "Anchors Aweigh," hrd 0050 4/2. (Connelly, MA)
- 1000 MEXICO, Ciudad Juárez, Chih., XEFV, 12/22 1145 w/"R. Rancherito" ID and  
 mention of Juárez. (Lobel, CA)  
 +5/3 1150 hrd just after logging KTOK and boy did XEFV almost ruin my  
 logging of KTOK for the first time. KOMO came on about 7 minutes later  
 completely ruined the signal from XEFV. (Lobel, CA)
- 1000 MEXICO, México, D.F., XEOY, w/standard whistle ID and muffled "R. Mil"  
 ID. KOMO sure seemed to be on reduced power at that time 11/3 0212.  
 (Pejza, CA)  
 +poking through looped KOMO 0602 12/21 w/usual whistle IS.  
 (Rittenhouse, CA)  
 +12/1 0307 taped but very weak, the usual screaming ancr/echo chamber junk  
 prevalent on Mexicans. Very strange that it seemed to have a clear  
 channel. In for about 3 minutes, then out till just a few seconds before  
 WCFL s/on which pegged and burned out my audio meter. (Dale, MO)
- 1000 ? UNID, "R. Nacional" noted here 0628 11/3. (Sherman, MN) (Probably HJAQ,  
 Cartagena, which carried "R. Cadena Nacional" programming - ed)
- 1005 COLOMBIA, Neiva, HJDP, 12/12 0707 w/SS mx and "R. Colosal" IDs. Several  
 mentions of Colosal afterwards. Cx seemed good to the south this morning  
 (Hanavan, CA)  
 +at good level w/R. Colosal ID, then carnival-type mx 0740 2/15.  
 (Connelly, MA)  
 +strong "R. Colosal" ID by man w/reverb, then operatic SS male vocal 0232  
 3/14. (Connelly, MA)
- 1010 MEXICO, Ensenada, B.C., XEDX, 10/5 w/R. Variedades ID and X-E-D-X ID at  
 0705. Good signal w/male ancr. Several mentions of "R. Variedades"  
 network. Also hrd 10/10 at 0000 w/"R. Variedades" "Música Moderna," and  
 "Voz de Frontera" IDs. (Lobel, CA)  
 +1/2 1432 w/"X-E-D-X, R. Variedades, Ensenada, Baja California" ID.  
 (Lobel, CA)
- 1010 MEXICO, Esperanza, Son., XEEB, La Rancherita in excellent 0717 7/7.  
 Repeats Rancherita twice. (Clements, CA)

- 1010 MEXICO, Guadalajara, Jal., XEHL, pounding in 1122-25 7/19 w/"La Música de Pegue, Onda Diez Diez" IDs and electronic "De-de-da-da, De-de-da-da." (Rittenhouse, CA)  
 \*5/9 1110 w/good ID "H-L, Guadajajara" and ranchera mx. (Lobel, CA)
- 1010 MEXICO, Torreón, Coah., XEVK, noted 11/14 1210 w/call ID and R. Felicidad slogan. Covered by OC at 1211 but still audible. Thought I hrd a "El Ritmo" at 1215. (Pejza, CA)
- 1010 MEXICO, Ures, Son., XEXN, 10/8 0300 w/many IDs "XEXN, Radio Ures..." Interference from KCHJ. (Lobel, CA)
- 1010 ? MEXICO, but who?? Suddenly appeared 1215 2/6 w/ID soon after... "eh-kes-eh-beh(?) -ravah(?) that's not in the SS alphabet!!) R. Peruical(?) ... musical radio." Any ideas, those closer to México? (Hall-Patch, BC)
- 1010 PERU, Lima, OAX4U, R. América, was in w/moderate signal at Lima sunrise 7030 9/15. Mx and mentions of Perú. Later yielded to Japan, see Pacific section. (Peterson, CA)
- 1010 ? UNID, Latin, rapid fire SS talk by man, 2-note doorbell type chime noted 7/19 2330 u/WINS and 1/20 0143 well o/WINS. (Connelly, MA) (Doorbell chimes have been hrd on Sutatenza outlet here - ed)
- 1015 EL SALVADOR, San Salvador, YSC, 0326 w/Latin rock, man ancr, IDs as R. Internacional, 10/11. (Szot, CA)  
 \*w/Mor SS songs and ID "Este es R. Internacional, en El Salvador" 0218 11/5. (Keleher, IN)  
 †R. Internacional made it w/fair signal and mx 1115 11/24. (Peterson, CA)  
 †was probably the one w/lively mx and SS anmts w/IDs as "La Voz de..." listed slogan is R. Internacional. 12/29 at 1117. (Bytheway, WA)
- 1020 COLOMBIA, Montería, HJZD, fair u/KDKA w/"R. Panzené" ID 1058 12/27. (Portzer, WA)
- 1020 ? COLOMBIA, caught the RCN ID and maybe R. Internacional was mentioned in the KDKA null 2/18 0733. Two years ago there was nothing u/KDKA between 0700 and 0800, but now the frequency is a jumble during this hour w/at least three Latin Americans here. (Martin, CO)
- 1020 GUATEMALA, San Marcos, TGOM, R. Frontera excellent w/WRN 1135 7/7 w/"desde San Marcos transmite R. Frontera" ID. Faded out 1140. (Clements, CA)
- 1020 VENEZUELA, La Asunción, YVRS, totally dominant w/ads in SS, jingles mentioning "Margarita" 0150 1/20. (Connelly, MA)  
 †strong to totally dominant w/fast Latin dance mx, male vocal, trumpet accompaniment, then "R. Margarita" ID and mention of "Potencia Mundial" (worldwide power) 0051 4/11. (Connelly a, MA)
- 1020 ? UNID, hrd 1054 6/14 w/mx and female anmt, intelligibility almost zero. Seemed to be all alone at this time. (Peterson, CA)
- 1025 COLOMBIA, Ibagué, HJFT, Ecos del Combeina, here from normal 1020, itself a move from 1170, previously 710, etc. ID 0538 10/14 mentioning "Super" network. (Schatz, FL)  
 †noted all night MM 11/3, usually too weak here especially weekdays w/KDKA and WBZ s/on. (Sherman, MN)  
 †noted repeatedly since I first found it 9/2 0800-0900. But can't find definite ID. Central Americans here usually s/off by 0500 and 0600. The Colombian is never strong and seems to be a bad fader. (Martin, CO)  
 †apparently the one here 0811 12/7 w/lively SS pop mx and Super Radio promo. Anmt mentioning Colombia 0814. Good signal on peaks but deep fading at times. (Portzer, WA)  
 †weak 12/8 at 1101 w/good ID. (Seaver, CA)  
 †hrd weak w/slop from KTWO c&w show 12/12 0050 w/chimes and time check. 0902 f/up w/anmt "Ecos de Combeina" and into spot. (Bytheway, WA)
- 1025 COSTA RICA, San José, TIAC, R. Fides, weak to fair w/spots, anmts, mx and IDs. Clobbered by high noise level 1045 6/28. (Clements, CA)
- 1025 ? UNID, very weak Latin noted here Tuesday morning 9/2 at 0800 and beyond. Don't recall any Latin all nighter here before. (Martin, CO)  
 †"Voz de la Heroica" noted 0341 9/24, per LSCA, lower Central America. (Schatz, CA)

+may have been the SS here 0601 9/25. Mx had South American flavor, some anmts. Fadey signal and heavy KTWO-1030 splash made things rough. (Portzer, WA)

- 1027 ? UNID, South American, Colombia or Venezuela likely, possibly Combeina, but too weak to read. First noted 5/5 evening. (Schatz, FL)
- 1030 COLOMBIA, Cali, HJER, weak u/XEQR 0800 11/24 w/"RCN de Colombia" mention. Also noted fair and alone in aurora 0100 11/26 w/a R. Pacifico ID in addition to the RCN spiels. (Francis, TN)  
+station noted here very strong o/u WBZ w/RCN ID, then pgm "Aquí Colombia" (this was bellowed out repeatedly through reverb, severely hacking up WBZ newscast) 0500 3/14. (Connelly, MA)
- 1030 MEXICO, México, D.F., XEQR, 12/22 1107 w/"R. Centro" ID. Hrd in null of unusually strong WBZ. (Lobel, CA)  
+weak thanks to WBZ MM. Managed to tape R. Centro IDs 0700 1/5. (Jones, NJ)  
+1/12 0924 w/"R. Centro" ID and MoR mx all in SS. (Lobel, CA)
- 1030 SURINAM, Paramaribo, this may or may not yet be on the air as ABC Radio, s/off 0430, address Schnerders Howardstraat, Paramaribo. (MWN)
- 1031 COLOMBIA, Cali, HJER, R. Pacifico, has been IDed here. A regular. (Sherman, MN)
- 1031 CUBA, Pinar del Río (province), R. Guamá // 1020 all day 9/7. Could be CMAS up from 1010. (Schatz, FL)
- 1032 COLOMBIA, Cali, HJER, R. Pacifico, separable from 1030 12/9 0418 w/IDs, lots of drum mx. (Seaver, CA)
- 1033 ? UNID, SS here hetting KTWO/XEQR 10/23 0345 and 10/26 0954 w/Eastern time checks and "La Voz de...." Doesn't sound like any of the listed IDs. (Seaver, CA)
- 1034 COLOMBIA, Cali, HJER, at 0736 2/2 hrd mention of RCN and "R. de Colombia" whatever it is, I believe it's the same Colombian that was on 1030 a few months ago. (Martin, CO)
- 1034 MEXICO, Ciudad Camargo, Chih., XECC, puts out a badly distorted spurious signal onto this TA frequency in early evening 0100-0400, thus masquerading as Portugal for the unwary. Been here since early September. (Martin, CO) (see also 1036, 1037 and 1042 - ed)
- 1035 HAITI, Cap Haïtien, 4VEC, R. 4VEH, hrd 0957 9/1 w/OC, then an organ theme for a while and SS ID by man at 0959. Into SS religious anmts. Short wave // of 3345 was also hrd signing on at this time, fair to poor w/some splatter. (Szot, CA)  
+2242 9/30-0030 10/1, poor to very good, at 2355 had to turn rf gain down, SS pgm to 2330, EE 2330-0030, all religious, chimes w/ID every half hour, sometimes at 15/45. (Curtis, VT)  
+10/26 2356 ending religious quiz pgm "20 Questions from the Bible," ID 2400 as "R. 4VEH, transmitting from Haïti, the pearl of the Antilles." S/off giving frequencies, hrd at me 0030 check, and carrier off. DXers should not say they hrd 4VEH on 1035, 4VEH is the short wave pilot on 9770. (Keleher, IN) (Most people who report "4VEH" on 1035 and 840 do so because 4VEH is the station slogan and therefore is the way the station will usually ID. 4VEC-1035 and 4VEF-840 are the correct official call letters. - ed)  
+w/hymns in EE strong w/some WBZ slop 0005 12/23. (Connelly, MA)  
+R. 4VEH extremely strong 2400 1/10, time check as 7 o'clock Eastern Standard Time. (Colyard, NJ)
- 1036 MEXICO, Ciudad Camargo, Chih., XECC, is the station hrd here recently. IDed 11/19 0328-0400 s/off as "X-E-doble-C," mention of Ciudad Camargo and Hidalgo de Parrel. Plays some EE rock songs. Nominal 960, as I recall it was hrd around 1005a back in late '60s. (Seaver, CA) (see also 1034, 1037 and 1042 - ed)
- 1037 MEXICO, Ciudad Camargo, Chih., XECC, hrd here 11/8 0319-0404 carrier out. At 0400 anthem, some anmts, ID as "La Voz de..." (one syllable word or

letter, like "Fe" or "P",)two calls as X-E-doble-C. This is most likely my 1031v of two weeks ago. Back near 1030 on 11/9. (Seaver, CA)  
(see also 1034, 1036 and 1042 - ed)

- 1040 ● BRAZIL, São Paulo, PRG2, R. Tupi assumed to be the PP here w/lots of Brazilian mx 0645-0715 10/19, though no definite ID hrd. Strong but fade and sometimes minced up by WHO test tone. Only a Colombian here by 0930. (Portzer, WA)  
+noted 12/28 SM w/PP talk o/u R. Super. R. Tupi ID 0759. (Bytheway, WA)
- 1040 ● COLOMBIA, Barranquilla, HJAI, believed the one w/lively instrumental mx 977 0555. Anmt 0600 mentioned "Este as CARACOL" and sounded like "HJ-wow!" also mentioned Colombia, Bogotá, and "CARACOL presente.... Nacional ... " This would indicate not R. Super, Bogotá, but Barranquilla simulcasting from a Bogotá CARACOL pilot station. (Keleher, IN) (R. Tropical in Barranquilla most likely. If you repeat "Radio Tropical" and "HJ-wow" enough times in rapid sucession you'll find they sound similar. Bogotá mention could be anything. Think of how many times you've hrd New York and Washington, D.C., mentioned on stations not located there - ed)  
+w/CARACOL ID, mx at potent level 0840 2/15. (Connelly, MA)
- 1040 ● COLOMBIA, Bogotá, HJCJ, 7/13 0936, fast Latin mx w/enthusiastic man ancr and "Rradio Super de Bogotá", lots of rolled "R" sounds in all his anmts in and out almost all morning. (Bytheway, WA)
- 1040 ● CUBA, Isla de la Juventud, CMEN, w/MoR SS songs 2349 11/9 and anmt by woman 2400, "... territorio libre... R. Caribe, desde Isla de...." This during one of the most rock-solid auroras I have ever experienced, WHO just not there. WWV A-index was only 10 that day. (Keleher, IN)
- 1040 ● PERU, Lima, OBX40, apparently the one here 0852-0905 1/24. Had woman w/time checks in middle of songs. ID 0854 w/man screaming "Onda" then chorus singing "Popular." Fair to poor o/u WHO test tone and hets, no sign of Colombians et al. (Portzer, WA)
- 1040 ? UNID, someone booming in here w/man and woman alternating w/Latin mx, chimes every minute, then time check by woman and 0-3 time pips, then more mx, 0945-58 5/2. March mx 0958 and then took a bad fade just as either KOMO, KING or KTWO went into a really sloppy song. There seemed to be a "La Voz de Colombia" ID at the top of the hour, then back loud and clear w/theme from "The Sting." (Portzer, WA)
- 1042 ● MEXICO, Ciudad Camargo, Chih., XECC, is the source of the outrageous Mexican spur which has been squealing around the 1030-1040 area since September. Taped three IDs 1/29 and noted s/off 0402. Repeated playing of tape gave me call letters like XEWC, but one ID also gave the location as ..argo, Chihuahua. Checking the Mexiglenn list for an ....argo town in Chihuahua led me to XECC-960. Then I realized the call I had been hearing was actually X-E-double-C. If the station is on 960, the other side of this apurious radiation ought to show up at 878, so I'll be checking it. Over modulating stations transmit these things an equal distance on both sides of their frequency. Have spotted a good many of them o/the years but never as far as 82 khz off frequency. The signal was fairly strong at times but always distorted. Separated easily from WHO. Has been on 1042 most of January. (Martin, CO)
- 1045 ● PANAMA, Las Tablas, HOJ2, suspected as the SS station noted here on numerous occasions. Slow instrumental mx at poor level in WHN slop noted 0047 4/11. (Connelly, MA)
- 1045 ? UNID, SS station in weak to fair obeying Murley's Second Law (mx received good, anmts obliterated) for over an hour around 1000 6/28. Slogan was a long one but did not start w/Radio, or La Voz de which pretty well leaves only the Guatemalan. Featred marimba mx a large part of the time and could not make out any time checks, had to fight line noise all the way. (Clements, CA)  
+in again w/more marimba mx, gave time checks 5:18 at 1118. IDs obliterated by noise. (Clements, CA)
- 1050 MEXICO, Mexicali, B.C., XED, 1/2 1439 causing mucho slop to 1040 where China was audible. Tuned to 1050 at 1442 and found out why. XED had loud boisterous ancr w/ranchero mx. ID "La Grande Mexicali" at 1444.

Something about a mariachi band at 1444:15 followed by "X-E-D, La Grande de Mexicali" at 1445. (Lobel, CA)

- 1055 ● COLOMBIA, El Espinal, HJFZ, La Voz del Centro, was surely the one in all morning 10/13 w/run-of-the-mill Latin mx. Signal ranged from good to non-existent w/bad KPAY slop until 0700 and bad KING-1090 slop till 0900. (Portzer, WA)  
+12/1 w/anmts at 0925 mentioned Colombia and spot for something called "Colcana(?)" 0927 ID w/"La R. de Colo..." followed by high-spirited mx. (Bytheway, WA)  
+this one hrd many times but never IDed before. Good ID as "La Voz del Centro" followed by slow SS male vocal 0625 4/1, fair to good level. (Connelly, MA)  
+weak, SS mx 0203 6/14. (Connelly, MA)
- 1059 ● CUBA, Baracoa, CMKG, strong w/SS talk, then lush orchestral mx 0228 12/21 (Connelly, MA)  
+fair to good w/man in SS 0109 3/4. (Connelly, MA)  
+good w/man in SS 0153 4/2. (Connelly, MA)  
+at usual potent level jamming KYW/CJRP w/SS talk by man 0045 4/11. (Connelly a, MA)  
+usual pest potent w/classical mx, zonking 1060 domestics 0204 6/14. (Connelly, MA)
- 1070 ● COLOMBIA, Barranquilla, HJAG, 11/8 0721-0805 good except for hets and fading, frequent time checks, caught call letter ID on half hour. (Curtis, VT)  
+ultra loud and wide, decking S-meter w/Emisora Atlántico ID 0628 4/1. Second Latin way under. (Connelly, MA)
- 1075 COSTA RICA, San José, TIFC, Faro del Caribe, in very weak 1105 11/17. Mostly just a carrier but some peaks w/singing. (Peterson, CA)  
+EE religious pgm "To Tell the Truth" gospel mx, ID and address, P.O. Box 6011, San José. Poor level but readable 0300-0400 11/26, first time I've hrd audio in 10 years. (Colyard, NJ)  
+tentative w/fragmentary mx in WTIC splash 0206 6/14. (Connelly, MA)
- 1080 ● VENEZUELA, Maracay, YVNR, 0120-30 11/6 many ads for businesses in Maracay Full ID 0130 w/call letters as well as "R. Universal." This is my #215 foreign logging and #29 from Venezuela. (Abraham, MI)  
+o/u WTIC w/R. Universal ID by man in SS, then SS mx 0417 3/23. Second Latin also present. (Connelly, MA)
- 1085 ? HONDURAS, "R. --o" w/three syllables, penultimate accent 0446 10/6. Too weak and fadey. Off 0600. (Schatz, FL)  
+R. Aeropuerto is the one here, listed as HROD, in San Pedro Sula, on 1130 per FBIS. (Schatz, FL)  
+station here nightly sometimes as early as 2330, seems to be R. Choluteca listed by WRTH '75 as on 1280. But am not absolutely certain of ID. (Stanbury, ON) (see above - ed)  
+positive R. Aeropuerto ID hrd 0045 1/19 and to absolutely clinch it, at 0125 they were hrd announcing their location as San Pedro Sula. Having confirmed the ID here it is clear from my previous observations on this frequency and the 1160 area that Hondurian stations pretty well operate as they please w/o regard to government regulations, mutual interference, or even basic public service considerations. (Stanbury, ON)  
+R. Aeropuerto discovered independantly (an advantage of being temporarily inactive and not reading previously published reports until after the fact.) 4/12 0232 w/ID at 8:30 time check, MoR, mostly US mx, in frequently when checked to 0600 s/off when gave complete name as Radio Aeropuerto Internacional, did not hear San Pedro Sula mentioned and call definitely not HROD as has been reported, but HRW?. Who needs two stations in San Pedro Sula, per WRTH '76? On other hand, could be ex-R. City, HRUW-1080, listed inactive? (Hauser, IL)
- 1088 ● CUBA, Camahuey, CMJB, here from 910 khz 9/20, which CMFA took over. CMEF relay noted nightly s/usual classical mx. (Schatz, FL)
- 1090 ● DOMINICAN REPUBLIC, Santiago, HIJM, S-9 w/very slight interference 0925 11/3. Had nx, spots, clear R. Amistad ID. (Sherman, MN)

- 1090 MEXICO, Rosarito, B.C., XEPRS, 11/24 0410 may have been on auxiliary transmitter as I was able to null them down to about S-6 and hear an Unid domestic. At 0414 I got them down to S-4 but Unid still not IDable. (Lobel, CA)
- 1090 VENEZUELA, Caracas, YVSZ, R. Exitos, 11/8 2232 poor, SS w/Latin mx, hrd Caracas, Venezuela, vying w/WBAL. (Curtis, VT)  
 \* "Exitos 1090 - 1090 kilocyclos" ID by woman 11/16 1008. Listed YVSZ w/10 kw. Native mx. (Schatz, FL)
- 1100 ANTIGUA, Saint Johns, 10/27 0905 really blasting in again since Daylight Savings Time went off. Gospel mx w/dedications, one to the staff of Radio Antilles. WWWE OC tried to bury them but couldn't. (Keeney, KS)
- 1100 COLOMBIA, Bogotá, HJCN, R. Reloj 0633 12/22 w/several IDs, ads.(Ball, ON)  
 \* fair w/chimes and ID as R. Reloj de Bogotá 0830 6/21, just before WWWE s/on. KING was off early enabling me to search this out. (Bytheway, WA)
- 1101.3 ? UNID, strong het on WWWE/et al. 0834 2/15. (Connelly, MA)
- 1110 HONDURAS, El Progreso, HRPL, R. Progreso ID audible 4/12 0408, so presumed Honduran. (Hauser, IL)
- 1110 VENEZUELA, Carúpano, YVQT, R. Carúpano w/nx, ID in SS by male ancr w/CBD o/WBT 0106 12/23. Had pgm of weird native Indian mx a little earlier. YVQT/CBD/WBT alternated channel dominance throughout the evening. (Connelly, MA)
- 1120 VENEZUELA, Maracaibo, YVMF, like a local, alone on channel, w/ID "Ondas de Lago, Mil Ciento Veinte," electronic mx in background, then nx pgm "El Reporter," 0200 1/20. (Connelly, MA)  
 \* dominant w/Ondas de Lago ID following progressive mx show, ancr sounded like he was falling asleep. Then s/off noted w/Venezuelan NA 0457-0500 4/2. When YVMF's carrier dropped off weak SS talk was noted in and out of a cacophony of numerous low hets. (Connelly, MA)
- 1120 ? UNID, 8/10 0030 SS poor w/bad hets, 0031 racetrack mx followed by race results, 2 male ancres, 0033 mx, 0036 more race results, 0038 mx to 0057 EXTRA EXTRA nx, mentioned Central America, 0100 Programa Intercontinental mx, 0115 KMOX takes over. 8/12 0024-50 when KMOX takes over, SS and mx w/static crashes, always gives och-oh tres etc. time at 0030. 8/13 0029-58 SS and mx, hrd Maracaibo once. Suspect YVMF in Maracaibo. (Curtis, VT)
- 1125 COSTA RICA, San José, TISRHB, 0810-25 on car receiver set for KMOX, KMOX off for Equipment test., SS pop mx, ID by man in SS as "R. Capital" at 0816 3/1. (Gerardi, IL)
- 1130 COLOMBIA, Barranquilla, HJAC, "R. Río Mar" noted atop the frequency 2340 11/11. (Stanbury, ON)
- 1130 DOMINICAN REPUBLIC, Santiago, HIRL, ID w/reverberated "Numero Uno en Calidad, Primera Sistema 'Ampliphase'", then "en Republica Dominicana..." Atop aurora-endeabled WNEW 0130 1/20. (Connelly, MA)
- 1140 MEXICO, Monterrey, N.L., XEMR, fair to good w/SS pop mx 0740-0800 1/26. ID 0744 "... M-R, numero uno en Monterrey." Under KGEN OC w/sometimes heavy KAYO-1150 slop. (Bytheway/Portzer, WA)
- 1150 DOMINICA, Roseau, new is R. Jumbo, 50 kw, with directional pattern north-south over Guadeloupe and Martinique, programs entirely in French. (SCDX)  
 \* "Jumbo" in well in the super-aurora of 11/9-10. Noted classical pgm w/FF woman DJ 0115-0200 11/10 w/strong and rock-steady signal, so stuck w/it. Into nx 0200 w/a funky guitar IS between items. Finally at 0218 nx ended taped "Jumbo-teque!" (Takeoff on discoteque maybe?) ID and into reggae-sounding mx. WJBO began to take over by 0230. (Francis, TN)  
 \* hrd here 10/11 0020 in FF w/US soul type mx. Very good signal here on top. Thanks again to Ron Schatz! (Nall, KY)  
 \* has been blasting in 11/22-3-4 evenings here, hrd s/off 0207 11/23, carrier off 0209, but don't know if this time is valid every night. Completely wipes out WRUN/WCOP/CKOC usual mess on this frequency, often is entertainment level, a polyglot of mx, though. Starts coming in around 2230 or so. (Foxworth, NY)

- +all FF is now strong and dominant evenings in Miami. IDs mostly just as "Jumbo" pronounced similar to EE. Mostly US pop mx, also continental FF w/some native stuff, sounding to me like a cross between Brazillian Samba and Haitian meringue. Formal ID starts w/prelude to "Kung-Fu Fighting." This one should get out well on the East Coast. (Schatz, FL)
- +hrd here for about 5 minutes 12/29 2310 w/mx, talk in FF, clear ID and jingle hrd. Faded quickly. Taped report sent. (Lazar a, WI)
- +Radio Jumbo has moved frequency to 550 khz. (SCDX)
- 1150 MEXICO, Mexicali, B.C., XERM, 10/3 0140 w/good ID by male ancr. Gave frequency and part but obviously not a s/off as they were still on a few minutes later. Telephone information in Mexicali has no listing for them did not check for US address. (Lobel, CA)
- +booming in 0203 MM 11/3 w/mentions of Mexicali and XERM ID. (Pejza, CA)
- 1150 VENEZUELA, Punto Fijo, YVMM, w/promo by man and "Ondas del Caribe" jingle by girl singers. This 0608 11/10 while trying for WSNW test which wasn't conclusively hrd. (Keleher, IN)
- +11/10 0620 w/Ondas del Caribe ID. (Keeney, KS)
- 1155 EL SALVADOR, San Miguel, YSCF, had crazy jingle, SS talk 0555. S/off w/same march hrd at YSS s/off, the NA I presume. YSCF off 0607 4/1. (Connelly, MA)
- 1155 NICARAGUA, Chinadega(?), "R. Consignina" mostly o/YSCF-1155.2, IDed 0107 5/6. IDed as Chinadega, but a Managua relay per WRTH '76, which also lists this one on 1475. (Schatz, FL)
- 1160 COLOMBIA, Barranquilla, HJBL, R. Aeropuerto, is now announcing its location as Barranquilla. Noted at 0330 2/16 dominating the frequency. Previously operated as Cienaga Grande and then Soledad. (Stanbury, ON)
- (According to Webster's Geographical Dictionary, Cienaga is a seaport 40 miles (65 km) East of Barranquilla, while Soledad is a Barranquilla suburb - ed)
- 1160 CUBA, Trinidad, new "doubleve" relay here 11/8, per ICR, not noted here yet. Don't confuse w/Artemesa on 1161. (Schatz, FL)
- 1160 DOMINICAN REPUBLIC, Santiago, HIBG, Radiolandia, is now hrd signing off at 0400 2/14, except on Sunday Morning when they are still all night. (Stanbury, ON)
- + "Radiolandia" S-9 no readable interference 0930 11/3. (Sherman, MN)
- 1160 UNID, a station noted at a good level atop a low growl of hets and some WCOP sloop w/several IDs as "R. Libertad" (male SS ancr) 0827 and 0843 2/15. WRTH lists a 300 watt Peruvian here as R. Libertad, but North American reception of this would be rather far-fetched. Ideas? (Connelly, MA) ('76 WRTH lists YSMM-1160, San Salvador, 2 kw w/this slogan, not listed in '75 WRTH - ed)
- 1163 HONDURAS, El Paraiso, HRGF, R. Paraiso was noted here at 0228 12/14 w/ID. (Stanbury, ON)
- +R. Paraiso is still here as of 1/20 when positive IDs were noted 0022 and 0225. (Stanbury, ON)
- 1165 ANTIGUA, Saint John's, Caribbean R. Lighthouse, P.O. Box 1057, Saint John's, operates 1000-1300, 2200-0200 with 8 kw, to be increased to 10 kw began testing August 28 and debuted September 7. (SCDX)
- +Caribbean Radio Lighthouse, is a new religious station hrd nightly from 2330. Best reception at 0203 s/off 9/16 when they announced power as 10 kw and s/on as "6:00" which would be 1000. (Stanbury, ON)
- +EE gospel, sked 1000-0200. Measured 0007 9/24 on 1164.990. (Schatz, FL)
- +hrd detectable w/hymns, man speaking, very poor 2355 10/5. Bad frequency choise w/TVI buzz on 1164.336 causing nasty het. (Foxworth, NY)
- +regular pest like 1265. (Sherman, MN)
- +very strong here in EE w/religious pgm. ID and time check 11/3 2344. (Nall, KY)
- +accented EE man on the half hour, programming of taped church service, various times 0030-0100 11/5-6. Fair to excellent signal. (Abraham, MI)
- +w/classical mx 0145 11/6, then s/off 0201 "You have been listening to the Caribbean Radio Lighthouse, sending God's message of truth to the East Caribbean from studios on the island of Antigua." Followed by frequency, power, etc., then brief instrumental mx and off. (Keleher, IN)

- +hrd quite strong and clearly at 2359 11/8 and finally a decent taped ID for the library. (Foxworth, NY)
- t +assumed the one w/strong carrier and periods of voice (unintelligible) 0958-1010 11/24. Frequency measured 1164.989 at 1005. Will someone on the East Coast measure this one for comparison? Will not log this one until I get something more definite. KSL makes it hard along w/KLOK. (Peterson, CA)
- t +surely Antigua 11/24 1017-32 w/organ mx, religious songs, etc. Never better than S-6. No IDs hrd. Checked at 1000 but had only very weak carrier. (Seaver, CA)
- +ID by comparison w/PFM by Schatz. Carrier only 1000-15 12/15. One of these days I'll get some good audio on this one. (Peterson, CA)
- +nx by man in Caribbean EE 0001 12/22, good copy at 4 khz selectivity. (Connelly, MA)
- t +likely the carrier here 1000 12/22 w/bits and pieces of what sounded like a hymn sneaking through unmerciful KSL slop. (Portzer, WA)
- +finally hrd audio on this one 2/23 1015 but KVOO s/on w/Equipment test ruined any logging. (Nittler, NE)
- +assumed the one w/fair carrier and bits of a hymn through KSL/KAYO slop 1002 3/1. Haiti-1035 in well at the time. (Portzer, WA)
- +fair w/EE religious talk 0025 3/10. (Connelly, MA)
- +at good level w/list of names for dedications, then a hymn was played. Signal was within 5 db of Paradise-1265, better overall copy since 1165 has less adjacent channel slop 0035 4/11. (Connelly a, MA)
- +fair to poor through TVI w/s/off by Caribbean accented male 0200 4/14. Auroral cx. (Francis, TN)
- +noted right after WVLC s/off, fair to good level, punching through WCOP slop w/old-time mx (Andrews Sisters, etc.) accented EE talk 0042 5/19. (Connelly, MA)
- 1165 ? UNID, w/strong carrier but no audio around 1000 scheduled s/on of Antigua 70/20. Bad KSL and KLOK slop. (Peterson, CA)
- 1170 COLOMBIA, Cartagena, HJNW, good 0120 11/6 w/mentions of Cartagena. (Abraham, MI)
- +3/1 1130 w/ID "Esta es Cartagena... América... La Voz de la Heróica... 1170 khz." KCBQ off and no sign of KLOK or KVOO, which usually dominate here when KCBQ is off. (Lobel, CA)
- +strong, atop WWVA w/good La Voz de Heróica ID, then uptempo SS mx 0506 4/2. (Connelly, MA)
- 1170 ? UNID, here loud and clear w/WWVA off SM 1/31 1000. Fast SS vocals and a long ID w/many jingles on the hour, but it didn't seem to match anything I could find. "... escuchar a R. Revista, la Clarín, la Clarín...", "also mentions of "(terbesa) aguilá" but nothing hrd as to country or city. Taped. (Cartwright, PA)
- 1175 a COSTA RICA, Puerto Limón, TIQ, poor to fair w/Mantovani-type mush mx, then talk by man in EE mentioned TIQ and R. Casino, then march mx 0600 4/1 (possibly s/off as not hrd a few minutes later.) EE pgm apparently for tourists and American business people residing in Costa Rica. (Connelly, MA)
- 1175 COSTA RICA, San José, TIBB, R. BB here from 1200 11/8 and even announcing 1175 as its frequency, contrary to the new allocation scheme. Frequent ads, etc. for the suburb of Heredia, which may be the actual location. (Schatz, FL)
- 1175 ? UNID, Latin American, "Solitare" by Karen Carpenter, then SS talk, ad or ID which sounded like "Esta es R. Marafe, desde Manto, albero Cabojar," then "Ral" shouted o/pompous-sounding march mx, then slow SS male vocal, good signal strength at 0125 1/20. (Connelly, MA)
- 1176 COSTA RICA, Puerto Limón, TIQ, R. Casino, is the one here now, mostly in EE. TIBB-1175 has been off here since mid-December per PFM's. Stand by for a lot of mis-IDs on this one! (Schatz, FL)
- 1180 BRAZIL, Rio de Janeiro, PRE3, R. Globo, poor to excellent 0105-10 w/two men in PP w/sportscast, mentions of Brazil, strange to hear them this early 11/6. (Abraham, MI)
- +logged 0727-45 o/u WHAM w/frequent IDs. First time logged here and in well at times 11/10. (Nittler, NE)

- +fair to good during auroral cx. Globo SID, musical ad, man in PP, then PP male vocal w/rhumba-type beat 0647 3/28. (Connelly, MA)
- +dominant w/PP talk, mentions of Globo, then fast mx, fair strength 0548 4/1. Rough low het present on high side. (Connelly, MA)
- 1180 ● CHILE, Santiago, CB118, R. Portales hrd w/deep fades 1035-1105 5/10. Marginally intelligible except for "Portales" ID at 1059:50. Used to be friendly verifier. (Peterson, CA)
- +excellent signal from 1110 onward 5/31, GMT -4 time checks, ID as "Portales", and ended a 10 minute program feature at 1114 w/76 Trombones to start pgm feature. PFM taken at 1118 6/14 read 1180.025. Without exception the best bet for Chile, s/on at 1030 but usually weak until after 1100, perhaps due to power boost. (Peterson, CA)
- +solid signal 1030-1130 6/14 w/Portales IDs and lots of SS talk. Had distinctive NBC type gongs at 1032 and played "76 Trombones" at 1100. (Bytheway/Orrren, WA)
- 1180 ○ COLOMBIA, Bucaramanga, HJGK, was possibly the one here w/non-stop RCN programming 0702 5/9. No IDs hrd but only RCN listed here in WRTN '76. (Bytheway, WA)
- 1180 CUBA, Isla de Pinos, CMBM, is the Reloj Nacional here, ex-1080 khz. Was briefly on 1165 a while back too! (Schatz, FL)
- +here while WHAM off 1/31 0915-1000 w/R. Reloj Nacional format. (Cartwright, PA)
- +noted in fair w/chimes and usual nx format 0914 2/29. In sporadically the rest of the morning. (Bytheway, WA)
- 1180 ● DOMINICAN REPUBLIC, Santo Domingo, HIBE, R. Mil ID given 0245 w/R. Globo gone. Man talk fair w/interference from WHAM 11/6. (Abraham, MI)
- +really bombing in 2/2 1001 w/SS mx and many R. Mil IDs. (Bytheway, WA)
- 1180 ● VENEZUELA, Ciudad Ojeda, YVNU, R. Petrolera surfaced briefly after WHAM fadeout w/ID and SID 0953 7/14. (Francis, TN)
- +w/presidents speech w/many mentions of Venezuela and R. Petrolera 0956 7/7. (Clements, CA)
- 1180 ? UNID, 12/29 0958, who uses "Radio Frontinerez... La Música Más Alergria" IDs here? Hrd u/WHAM. (Lobel, CA)
- 1187 GUATEMALA, Guatemala, TGT, "Sonora" in well w/1180/1190 domestics blotted out in aurora 0253 11/10. (Francis, TN)
- 1188 GUATEMALA, Guatemala, TGT, R. Sonora in SS but US rock mx, definite ID, good level 0240 11/15. Probably mistaken for Mi Amigo many times. (Colyard, NJ)
- +was hrd and IDed on this frequency w/good signals in November during auroral cx one night. They presumably were hrd again 0405 12/7. No ID this time but format similar so am sure this is TGT here. Reported on 1187 in past seasons, but up to 1188 now, easily separable from WOWO. (Foxworth, NY)
- +fair w/operatic SS male vocal, CHTN slop 0158 6/14. (Connelly, MA)
- 1190 ● COLOMBIA, Bogotá, HJCV, w/anmt 12/29 0633 "En Bogotá, Cordillera" in slow pompous Colombian style, again at 0636 during long-winded promo, then lively song. Briefly o/KLIV/KAYQ during WOWO silence. (Keleher, IN)
- +R. Cordillera ID and mention of Bogotá hrd u/domestics 1/5 0727. I think WOWO had OC on. (Lazar a, WI)
- +w/SS mx, Cordillera ID by man, WOWO not present because of aurora 0043 1/12. (Connelly, MA)
- +suspected here as something sounding like a R. Cordillera ID was hrd amid a stream of unbelievably fast SS talk 0542 4/1. (Connelly, MA)
- 1190 MEXICO, Guadalajara, Jal., XEWK, dominant 2/1 all night w/KEX off. Many "XEW" and Radio ... IDs. XEWA-540 had been noted on past 0800 that night and was probably // XEWK/XEW all night but since I was taping 1190 while I slept I didn't check for the //s. Hope this isn't a sign of things to come. (Portzer, WA)
- +w/"R. Difusión" and "XEW" IDs w/KEX, man and woman ancrs w/bells and cuckoo clocks 1136 3/17. (Oliphant, AB)
- 1190 MEXICO, Mexicali, B.C., XEMBC, 10/3 0126 good signal u/KCBQ slop w/male ancr and ID, then fast paced jazz. (Lobel, CA)
- +2/9 0420. Rain brings strange DX! Local KCBQ usually wipes out 1170-90,

but not tonight! Very good S-7 signal from XEMBC w/no KCBQ slop. Male ancr in SS w/ID and mention of Mexicali. (Lobel, CA)  
+2/17 0526 w/R. Variedades ID. Some EE rock cuts. (Hanavan, CA)

- 1190 ? MEXICO, Unid, someone came on w/o anmt around 1200 2/1 and fought it out w/XEWK until KEX s/on 1300. Mostly SS pop mx w/several IDs beginning w/raunchy guitar and then chorus singing "Es R. Once Noventa." Closest slogan listed is XECT, "Canal Once Noventa." Had Central time checks. (Portzer, WA)
- 1195 HONDURAS, San Pedro Sula, HRVW, apparently a new discovery thanks to the Rantoul 1500' beverage as I don't find anything but a Dominican Republic previously reported around here and none listed... 4/12 0237 "Que Sera" segue to "True Love" but satisfaction at 0240 w/"La Voz de Centroamerica" ID and 8:39 time check, same name at 0243, seemed to be off by 0400 if not earlier. (Hauser, IL)  
+SS hrd here almost nightly but usually weak. Once seemed to say "Honduras y el mundo" (presumably reference to nx) but I'm not really certain. (Stanbury, ON)  
+HRVW "Voz de Centroamericana" ID 0226 4/28, making this ex-1171 khz. (Schatz, FL)
- 1200 COLOMBIA, Cali, HJNF, fair o/u YVOZ w/"R. Super" ID 0841 2/23. Much livelier mx makes this one easily recognizable from Tiempo. (Francis, TN)
- 1200 COLOMBIA, Riohacha, HJZW, noted during a fade by usually stronger YVOZ. After a few listens to the tape, I deciphered an ID, "R. Almirante... Riohacha" which was given at 0145 4/2. (Connelly, MA)  
+0255 6/10 noted topping the frequency. May indicate a power boost. (Stanbury, ON)
- 1200 VENEZUELA, Caracas, YVOZ, R. Tiempo fair to good 2333 9/5-0030 9/6. Latin mx mostly male vocals, some very romantic, also mx spots. Very frequent R. Tiempo IDs. 0000 Radio Tiempo ID, tone --, mx spot and time long fade and bad hets at times. "R. Tiempo" generally the first words of each anmt. (Curtis, VT)  
+poor to good 2304 10/1-0030 10/2 when lost in hets. Apparently still regular an hour after sundown w/Latin mx. (Curtis, VT)  
+in well o/WOAI 10/14 0645-0700 w/light mx and numerous "Radiotiempo" time checks, ads mentioning Venezuela and Caracas. (Ball, ON)  
+in nicely 11/2 0250 all alone w/a good signal. (Wood, NY)  
+ID given at 0117 11/6, Venezuelan mx, excellent signal. (Abraham, MI)  
+potent w/fast repetitive dance mx, way o/mass of low hets 0245 12/21. (Connelly, MA)  
+very strong w/male SS vocal 2357 1/11 in auroral cx. (Connelly, MA)  
+3/1 1000 hrd for second time in recent weeks w/"Radiotiempo" ID. Gave a time check and full ID "YVOZ, Radiotiempo Caracas, 1200" nx w/chimes after each item. S-9 but lots of noise. (Lobel, CA)  
+w/ID 1013 3/22 as "R. Tiempo" w/SS mx and talk. (Oliphant, AB)  
+had a monster signal, better than WCAU-1210. Slow SS female vocal noted 0546 4/1. (Connelly, MA)
- 1200 ? UNID, someone IDing as R. Nacional at 0257 s/off 6/10. (Stanbury, ON)
- 1200.5 COLOMBIA, Cali, HJNF, R. Super fairly regular here despite strong WOAI. (Sherman, MN)
- 1207 ? UNID, OC here 0100 4/3 during an excellent tropical opening. (Stanbury, ON)
- 1208 CUBA, Morón, CMJX, "R. Morón" causing bad het here evenings 5/22, strong w/o het days w/WCMQ-1220 nulled. (Schatz, FL)
- 1208.6 ? UNID, SSer badly junking WCAU w/raucous het 0116 4/27. (Connelly, MA) (the above? - ed)
- 1210 COLOMBIA, Pereira, HJFF, La Voz Amiga, strong 0112 11/6 w/mx. (Abraham, MI)
- 1210 CUBA, Holguín, CMKD, R. Reloj Nacional, MM 10/10 0800 this started up through WCAU w/strong signal and the typical Reloj format. (Cartwright, PA)

- +WCAU was off Thursday morning 3/9, at 0738 noted R. Reloj on 1209 and another weaker Latin on 1210. The interference on the high side, often noted as hets in the evening, seemed to be off the air then. (Foxworth, NY)
- 1210 h GUATEMALA, Guatemala, TGMX, R. 1210 seems to be renamed R. Rumbos, as evidenced on a strong 2420 harmonic 4/2 0443 w/10:45 time check, times always 2-3 minutes fast, talking about zona-7. S/off 0608, no anthem. Since then, harmonic seems to have been suppressed (not a beverage logging). (Hauser, IL)  
+ "R. Rumbos" noted on 2420 harmonic 0152 4/10, verifying existence of the station. (Schatz, FL)
- 1210 HAITI, Port-au-Prince, 4VDS, Radio Progrès, is now on 24-hour schedule, and may have had a power increase. (MWN, April)
- 1211 a CUBA, Holguín, CMKD, w/usual Reloj format and big het against WCAU 0710 4/26. (Portzer, WA)
- 1211 ? UNID, long instrumental reminiscent of Mongo Santamaria's "Watermelon Man" then male vocal came in, apparently all part of the same song. 0250 12/21. (Connelly, MA)
- 1215 ? UNID, very weak SS worked on unsuccessfully 5/5 evening. (Schatz, FL)
- 1220 ● COLOMBIA, Barranquilla, HJFV, 0814 9/15 fair w/R. Visión ID by woman. WGAR off but XEB's heavy interference and identical format (romantic SS vocals) make this one rough. (Francis, TN)  
+ good w/mentions of Barranquilla w/usual domestics knocked out of the box by aurora 0538 4/1. (Connelly, MA)
- 1220 ● COLOMBIA, Montería, HJAV, this putting in another appearance this year on 2440 khz. They were regular last year during Christmas on their second and third harmonic. Does this ever make it on their fundamental? Hrd 10/7 at 0445 in SS w/ID's as R. Cordobesa. Fair. (Szot, CA)  
+ R. Cordobesa 0625 MM 10/10 fighting WGAR/XEB w/fast SS mx and IDs. (Cartwright, PA)
- 1220 MEXICO, México, D.F., XEB, 0615 8/11 in SS carrying R. Cuatro pgms (related to R. Tres on short wave for a while.) The DJ mentioned a "fútbol" game to be carried over "R. Tres y R. Cuatro" later in the day. ID's as "R. Más," etc. (Szot, CA) (R. Tres is XEDF-970 - ed)  
+ w/fairly potent signal at Pacific Local time sunset 10/2 0115. ID "XEB, R. Cuatro." Then played "Dominique" followed by another ID and their usual weird sounds. (Lobel, CA)  
+ 11/28 0828 w/usual crazy sounds and R. Cuatro ID. Also hrd 11/30 0932 w/good ID and S-9 signal. Sanserino loop really makes a difference over IRCA spiral loop I was using 11/28. (Lobel, CA)  
+ 12/29 0720 hrd w/"R. Formular" IDs followed by "La B Grande" IDs, then later, "X-E-B, R. Cuatro." When did they start using three IDs? (Lobel, CA)
- 1224 COSTA RICA, San José, TIBB first noted back here 1/17 0343. Apparently the new Costa Rican frequency allocation scheme isn't receiving 100% cooperation. (Schatz, FL)
- 1230 ● VENEZUELA, Valera, YVOH, caught 0937 9/30 w/local ad for shoe store. Good signal on Sony TFM-1600. (Schatz, FL)
- 1240 ? UNID, SS here 1115-30 11/3 o/semi-local WJON! Had to be a low-powered Mexican or 5 kw Guatemalan or further south as direction finder west of Chicago and funny sound to it. Maybe a few hz off frequency. (Sherman, MN)
- 1240.7 ● DOMINICAN REPUBLIC, Puerto Plata, HIAU, measured on 1240.707 0016 9/24. Don't confuse w/France on 1241.0. (Schatz, FL)  
+ very good 1002 11/3 w/ID "en Puerto Plata, en la Republica Dominicana, la Voz de la Libertad." With crystal off they completely blotted 1240. (Sherman, MN)
- 1243 ? UNID, man in SS using reverb, lots of yelling, no IDs discerned, fair signal level 0205 4/2. (Connelly, MA)

- 1244 PANAMA, Ondas Tropicales is a new one here. First noted 4/3, then again 4/4 w/clear IDs 0332, 0340 and later. Many references to Panamá around 0400. Strong. (Stanbury, ON)  
 + "Esta es... Onda Tropical... 1200 en su radio" IDed 0450 4/11. S/off w/NA 0455. City unknown. (Schatz, FL)
- 1250 COLOMBIA, Barranquilla, HJOK, "Emisora ABC" S-9 11/3 0730 w/low het as main interference, WREN nulled, WEMP off, WTAE on OC and CHSM gone due to aurora. A-index was 40! (Sherman, MN)
- 1260 COLOMBIA, Cali, HJET, Radio Visión's new address is Carrera 1ª, No. 18-39 Cali. (SCDX)
- 1260 CUBA, Sancti-Spiritus, CMHL, "Doublevé" relay here from 1490 per IGR 11/8 (Schatz, FL)
- 1265 SAINT KITTS, Basseterre, R. Paradise announced schedule 0900-0500. (Schatz, FL)  
 is constructing a 200 kw transmitter. (SCDX)  
 +very poor 0000 9/7, caught ID and time between religious pgms. Severe interference from adjacent frequencies. (Curtis, VT)  
 +good in aurora 10/13 w/some slop from 1260/1270 domestics. 2330 ID "R. Paradise, coming to you from Saint Kitts in the West Indies." then into "The Hour of Deliverance." (Ball, ON)  
 +10/14 0144 w/amnt "R. Paradise, broadcasting from Saint Kitts, in the West Indies on 1265 khz," then Gospel Waves religious pgm. (Keleher, IN)  
 +0115 11/6 w/man preaching in EE. Also 11/4 at 0200 ID. (Abraham, MI)  
 +religious EE 11/10 0005-0215. 0030 ID "You are listening to R. Paradise. We are broadcasting from Saint Kitts in the West Indies 18 hours daily. The time is 9:31." IDs on half hour as R. Paradise very good, almost local quality. (Curtis, VT)  
 +hrd first time well this season w/S-6 signal 11/24 0915. (Seaver, CA)  
 +11/29 0000 religious, poor, IDed from previous loggings. (Curtis, VT)  
 +12/7 2355 religious sermon, poor. (Curtis, VT)  
 +loud 2349 12/22 w/ranting preacher who said "New York is defaulting and Washington is not the way out - Jesus is the way out!" (Connelly, MA)  
 +w/amnt during gospel mx pgm "from the studios of R. Paradise" 2330 1/20. (Keleher, IN)  
 +2/16 0943 just a carrier here. Rough through KYA-1260 and KFJZ-1270. S-4 at best. (Hanavan, CA)  
 +fair to good w/man in EE (religious pgm) 2337 2/24. (Connelly, MA)  
 +strong w/minister from Gaffy, SC, who promoted booklet "What's Wrong with Free Love?" 0020 3/10. (Connelly, MA)  
 +good topping WTSN slop w/preacher in EE, then ID and Atlantic Standard Time time check "28 before 9" 0032 4/11. (Connelly a, MA)  
 +poor w/EE talk, bad WEZE slop 0212 6/2. (Connelly, MA)
- 1270 COLOMBIA, Barranquilla, R. Miramar logged finally fighting it out w/Cuban Reloj Nacional 2400 11/11. (Stanbury, ON)
- 1270 CUBA, Camagüey, CMJG, Reloj Nacional noted w/bodacious signal 0705 5/17 w/usual talk and chimes format. CHWK off earlier than usual 0735 s/off. (Portzer, WA)
- 1270 MEXICO, Nogales, Son., XENY, R. Geny ending cultural pgm about Yucatan 0800 7/7 w/full ID. (Clements, CA)
- 1270 MEXICO, Tijuana, B.C., XEAZ, IDs as "R. Frontera." ID is by very young female, my estimate is about 5 or 6 years old. (Lobel, CA)  
 +now has an all soul show 0000-0600 weekdays. Promo is X-soul. (Hanavan, CA)
- 1280 COLOMBIA, Bogotá, HJKN, Radio Sonorama's correct address is Calle 14, No. 12-50, Piso 4, Bogotá. (SCDX)
- 1280 UNID, fair signal w/SS ancr and mx, looped south so doubt that this is New York City. Did hear "R. Metropol..." 0751 10/10, but that might be used by WADO. (Cartwright, PA) (R. Metropol, 4VPH, Port-au-Prince, Haiti listed in '76 WRTH - ed)
- 1285 NICARAGUA, "Radio..." something, fair to weak, s/off w/NA 0302 4/28. Not R. Granada, the former occupant here. (Schatz, FL)

- 1290 MEXICO, Ciudad Obregón, Son., XEAP, R. Mundo w/marimba mx 0435 7/7. Good signal w/slight interference. (Clements, CA)
- 1290 ? UNID, SS in and out among various domestic testers 0708-39 6/21. Featured lots of brassy uptempo vocals, but no IDs noted. Did have a Carta Blanca ad at 0717 and possible mention of México, so possibly Mexico City. (Portzer/Bytheway, WA)
- 1295 NICARAGUA, Matagalpa, YNOO, "R. Plata, la de éxitos," 3 kw, nominal 1290 khz, ex-"R. Plaza Reloj." All this derived after finally getting the location Matagalpa, on evening and deducing from WRTH '76. (Schatz, FL)
- 1300 MEXICO, Ciudad Juárez, Chih., XEP, 0700 10/6 w/R. Trece ID. Hrd very faintly u/a very strong KYNO. (Lobel, CA)  
 +hrd w/calls and "R. Trece" ID 11/21 0325. Must be careful here since KWKW also IDs as "R. Trece." (Seaver, CA)  
 +11/28 0815 w/mention of Juárez and something about El Paso, followed by horse race theme (notes played usually before a station gives race results.) In w/S-9 signal, they must be more than 500 watts at night. (Lobel, CA)  
 +1/5 0235 w/s-7 signal. Ranchero mx w/male ancr. Gave frequency and power, then female ancr. Then more ranchero mx. (Lobel, CA)
- 1300 NETHERLAND ANTILLES, PJD2, Voice of Saint Maarten, is now here. (MWN)
- 1310 h MEXICO, Tijuana, B.C., XEC, noted on second harmonic 2620 7/5 and 7/6 good and clear. (Clements, CA)  
 +11/28. Is it XEC or XEJ-970? Or were they broadcasting in simulcast? XEC w/same pgm as XEJ 0540. Thought I hrd mention of Juárez, then hrd "XEC" ID and sure enough, same song as on XEJ. (Lobel, CA)  
 +IDs as "Este as Superama de XEC." they play mx similar to ranchero mx but slightly different. Time of ID hrd was 1/5 0240. (Lobel, CA)
- 1312 ? CUBA, local programming, woman, s/off w/shoral NA 0259 4/28. (Schatz, FL)
- 1325 ● NETHERLAND ANTILLES, Aruba, Oranjestad, PJA10, w/anmts in SS, playing EE pops, several mentions of Aruba, and "La Gran Programa" 0213-30 11/25. Am quite certain this was Aruba. (Keleher, IN)  
 +man in SS w/ads strong 0053 12/23. (Connelly, MA)  
 +fair w/"Disco Lady" by Johnny Taylor 0105 4/2. (Connelly, MA)  
 +fair to good w/US country song 0030 4/11. (Connelly a, MA)
- 1325 ? UNID, carrier but no audio. None of these are TVI birdies, all are genuine carriers. Any ideas? This hrd 0345 10/11. (Sztot, CA)
- 1340 MEXICO, Mexicali, B.C., XEAA, poor amongst domestics w/usual electronic whirlygig sound 0704 9/15. (Portzer, WA)
- 1340 VENEZUELA, new is Radio Uno, no location known, has "Miniteca Uno" daily 0200-0400. (MWN, June)
- 1350 MEXICO, Torreón, Coah., XETB, R. Laguna clear and dominant playing US songs in SS 0315 6/28. Nice clear call and slogan ID. (Clements, CA)
- 1360 ? UNID, song called "Barranquilla, Baranquilla" hrd, then SS talk peaking up very well o/WKAT and nulled WDRC pest 0650-0700 4/1. Total fadeout by 0702. (Connelly, MA)
- 1370 h COLOMBIA, Emisora Río Negro is a new station here w/a substantial harmonic on 2740 khz which is hrd nightly. Has RCN nx at 0300. (Stanbury, ON)
- 1370 MEXICO, Nogales, Son., XEHF, 1250 4/5 w/good "X-E-H-F, Nogales" ID and "R. Requardo(?)" ID, playing an SS version of Ray Charles' song "Crying Time." (Lobel, CA)
- 1370 ? UNID, SS MoR 0835 1/19. Assume the Colombian hrd years ago in Berkeley by Larry Godwin. No sign of CHPQ. (Heald, CA) (Could also be one of the Mexicans on late - ed)
- 1375 MEXICO, Puerto Peñasco, Son., XEQC, good w/lots of 1380 interference. Uses "La Reina" slogan w/muffled guitar. Abrupt s/off 0300 7/6. (Clements, CA)

- 1375 ? UNID, OC here from 0250 until it left the air shortly after 0300 6/23. Presumably same one here w/ tone 6/24 from 0125 until it abruptly left the air 0143. Comparatively strong signals both dates but low modulation level 6/24. (Stanbury, ON)
- 1380 MEXICO, México, D.F., XECO here 10/6 0740-50, many R. Eco IDs. Off after 0800. (Seaver, CA)
- 1385 HAITI, Port-au-Prince, 4VS, R. Port-au-Prince measured on 1385.003 9/24. Beware. a TA channel! (Schatz, FL)
- 1390 URUGUAY, Treinta y Tres, CW45, returns to 1390 from 1388 khz. (MWN)
- 1400 NETHERLAND ANTILLES, Bonaire, PJB2, Voice of Bonaire, now here ex-1385 khz. (MWN)
- 1409 CUBA, Florida, CMJI, het on low side of WPOP/CIGO 0041 3/4. (Connelly, MA)  
is now carrying Cadena Agramonte // 860/910. 1/31. (Schatz, FL)
- 1410 URUGUAY, Montevideo, CX44, signs off 0500. (MWN)
- 1410 ? UNID, 12/11 0413 "R. Instructo" ID hrd 0427. No other IDs hrd. Am certain of 1410 as this was in KERN null. (Lobel, CA)  
+1/5 0335 who uses "R. Internacional" ID here? Too much interference from KERN to tell much else about the station. (Lobel, CA) (KCAL? - ed)
- 1419 a CUBA, Baracoa, CMDX, fair to good w/semiclassical mx at low audio level 0003 3/10. (Connelly, MA)  
+poor in noise w/fragments of big band jazz 0203 6/2. (Connelly, MA)
- 1420 MEXICO, Tijuana, B.C., XEXX, 12/29 0455 w/believe it or not a woman speaking FF w/man translating to SS. "X-E-X-X, Tijuana, Baja California." hrd at 0501 so am sure of XEXX. I don't speak either FF or SS so don't know what they were saying. (Lobel, CA)
- 1423 ? UNID, Latin w/mostly pop mx. Frequent recorded IDs as "La F-Y (efe-yé), la Consentida" time checks 4 minutes fast, GMT-6. F-Y must be the last two letters of a call sign, e.g. TGFY, HRFY, YSFY, YNFY, etc. Nothing listed. (Schatz, FL)
- 1430 BRAZIL, Rio de Janeiro, PRE2, R. Vera Cruz, has now become ZYE88, R. América. Schedule is 24 hours. Address: Rua Buenos Aires 168, 2° Andar, CEP 20.000, Rio de Janeiro. (MWN)
- 1430 MEXICO, Ciudad Miguel Alemán, Tams., XEWD, s/on 1155 4/22 w/call letters hrd plainly, into SS mx. Loud and clear for a minute or two but then faded w/CKFH and KELI. (Pitts, CA)
- 1430 MEXICO, Ciudad Obregón, Son., XEOX bombing in 1203 w/no interference w/spots for Muebleria Estrella and photos required for graduation certificates. No KALI. "O-X, 14-30" ID 1205 7/7. (Clements, CA)
- 1430 ? MEXICO, unid SS w/announcement between songs as "R. Super Ranchero" 2/27 0035-0140 in and out but no calls hrd. Nogales, Arizona mentioned at 0043. (Nittler, NE)
- 1435 NETHERLANDS ANTILLES, Aruba, Oranjestad, PJA5, R. Kelkboom w/woman in SS, then "Fame" by David Bowie 0040 1/20. (Connelly, MA)  
+fair w/male SS vocal 0103 4/2. (Connelly, MA)
- 1440 MEXICO, Ciudad Camargo, Chih., XEEA, dominant o/domestics w/SID several mentions of México 0520 4/1 during unprecedented high-band Latin American opening. (Connelly, MA)
- 1440 MEXICO, México, D.F., XEAI, R. A-I in excellent 0800-42 7/7 w/long drawn out R. A-I, Canal Tropical IDs. Also uses "Música alegre en la Grandota R. A-I." (Clements, CA)
- 1440 NETHERLANDS ANTILLES, Saba, FJF1, The Voice of Saba is due to increase power to 70 kw. (MWN, June)

- 1460 **COLOMBIA**, Villa del Rosario, HJTS, R. Monumental is a new station here, per Belgian Radio/TV DX Corner, 1 kw per '76 WRTH. (Portzer, WA)
- 1470 **MEXICO**, México, D.F., XESM, 1/5 0815 hrd "R. Cinco" ID here w/XEBBC OC. Must be same one reported by Schiller in Florida. Hrd "XESM, R. Cinco" ID 0830. (Lobel, CA)  
 +1000 2/16. Hrd XERPM style whoops, then clear "R. Cinco" ID on hour after more whoops, "música mexicana" may have been part of the ID. Poor to fair signal jumbled somewhat by CJVB OC. (Hall-Patch, BC)
- 1470 **MEXICO**, Tijuana, B.C., XEBBC, from 0639 tune in 8/11 in SS w/a pgm called "La música movima para trabajar." Spots for some marriage place, and one for "Dr. Antonio" who has offices right near the airport. All kinds of mentions of how great their mx is, but out of the half hour I was tuned to them only about 10 minutes was devoted to playing any. Many mentions of Guadalajara and even a theme song singing out ¡Guadalajara, Guadala-jara!! At 0700 the DJ said, adios, which made me think a replacement would come on. Some mx followed till 0703 ID. 0704 brief "tata" on trumpets, then just an OC for a minute, then that went off too. (Sztot, CA)  
 +12/1 had OC for several hours from about 0900 to around 1300 when they were back on the air w/regular programming. (Lobel, CA)  
 +1/5 0345, this horrendous pest was on in EE w/religious pgm. Possibly a change in format? (Lobel, CA)
- 1470 **MEXICO**, Unid SS mixing w/XESM around 0730 2/16. SS mx, not really ranchero, and man and woman talking. ID sounding like XERDM hrd. Bruce Portzer and a Winnipeg DXer are of the opinion this is XEBBC w/RCN programming. (Belanger, MB) (After you called, Darryl, I did some more checking and found on p. 39 of Foreign Log 4 that the RCN network is now the RPM network. No 1470 stations (not even XEBBC) were listed on the apparently incomplete list of affiliates. Will monitor XEBBC some Sunday night to see what happens - ed)
- 1470 **UNID**, what station here uses a R. Uno ID? Hrd here w/KWIZ slop at 0825 10/6. (Lobel, CA) (Nothing listed. Might have been XESM promoting their sister station XERPM-660 - ed)
- 1480 **CHILE**, new is "R. Libertad, La Radio del Ejército de Chile." (MWN)
- 1480 **MEXICO**, Monterrey, N.L., XETKR hrd 10/6 0704-12 w/"R. Mexicana" IDs and calls. (Seaver, CA)
- 1480 **MEXICO**, Poza Rica, Ver., XEPR, a real suprise 0827-40 10/13 w/ranchera mx and oodles of R. Mexicana and XEPR IDs. Way atop domestics and sounded like much more than their listed 500 watts nighttime power. (Portzer/Bytheway, WA)
- 1480 **URUGUAY**, Cardona, Soriano, CW148, R. Centro commenced operations 8/1/75. (SCDX)
- 149 **MEXICO**, Ciudad Juárez, Chih., XECJC hrd apparently all night MM 11/10 w/IDs after each record as "CJC-Canal Tropical" and also "R. Musical." Completely on top of frequency 0705-17. Hrd twice last season all night also but ID then was R. Impacto. (Nittler, NE)  
 +now using "R. Sensación" ID. Was Canal Tropical in November and R. Impacto last season. Anyway, appears to be all night-7 days a week. (Nittler, NE)  
 +in and out in jumble w/SS pop songs (not ranchera) 0848-0902 3/1. IDs as "R. Sensación." (Portzer/Bytheway, WA)
- 1500 **MEXICO**, México, D.F., XERR, MM 11/3 0149 mixing w/KXRX, "R. Seis, canal Tropical" ID. (Pejza, CA)  
 +ID as "R. Seis(6) - Tropical de México," good, alone on channel 0715 4/1. (Connolly, MA)
- 1505 **ANGUILLA**, The Valley, R. Anguilla finally logged for the first time 2332-50 11/5 during very auroral cx. Reggae records dedicated to listeners on Anguilla and Saint Kitts, woman ancr w/soft voice and thick Caribbean accent. Added to tape library for country #131. Never could get this one w/FET-Altazimuth loop because they were too close to being colinear w/local WMEX-1510, new loop has enough more gain to make the difference though. (Nelson, MA)  
 +hrd w/poor signal 0038 and on 1/11, again w/six pips 0200 and chimes from

interfering Latin. Devotion copied 0226, hymn/choir 0228 and s/off 0229 and carrier cut 0231:50. Anguilla was right on 1505 and the interference (reported as R. Canoa, Cartegena, Colombia) was about 150 hz high and was left in the clear after 0232. (Foxworth, NY)

- 1505 ● COLOMBIA, Cartegena, R. Canoa IDed 12/23 2200 thanks to tip from César Objío. Has woman and US-type "Background" mx, easily confusable with Anguilla, so watch out. (Schatz, FL)
- 1520 ● COLOMBIA, Barranquilla, HJLQ, "R. Minuto, más cerca de Usted." Slogan 4/12 0709 w/2:10 time check and indeed so on the beverage, though not especially rare w/out it. (Hauser, IL)  
+good, atop WKBW w/ID mentioning Barranquilla, lively Latin mx 0415 5/3. This must be more than 1 kw listed in WRTH '76. (Connelly, MA)
- 1520 MEXICO, San Luis Río Colorado, Son., XEEH, in mostly o/KACY and KOMA MM 11/3 0110-45. Apparent South American nx 0110, followed by brief items from different cities in México. Time checks 0122 and 0128. Ballads, spots w/prices in "dolares," spot for Cantinflas movie, finally mention of San Luis followed by ID as "R. Sonora" 0145. Also hrd much later at 1329 u/domestics w/spot for San Luis. (Pejza, CA)  
+12/1 1200 w/ID as "R. Sonora Internacional... X-E-E-H... San Luis, Sonora en la Republica Mexicana." Hrd at S-9. (Lobel, CA)  
+4/19 1315 w/man talking to young girl giving station ID as XEEH and mentioning San Luis. Ranchero mx followed. Another ID as "X-E-E-H, R. Sonora Internacional." This followed by more ranchero mx. (Lobel, CA)
- 1520 ? UNID, SS talk in well during brief WKBW carrier cut 0825 12/22. (Connelly, MA)
- 1525 COSTA RICA, Turrialba, TIEEAW, w/male SS talk 0034 1/20. (Connelly, MA)  
+2/16 1170 presume to be the one in SS. S-6. (Hanavan, CA)  
+in at good level w/"Columbia" ID, SS talk, reported previously, best reception ever of this one at 0428 5/3. (Connelly, MA)
- 1525 ? UNID, growl of hets, more likely Latin Americans than usual USSR/China mix 0547 12/22. (Connelly, MA)
- 1530 MEXICO, México, D.F., XEUR, 12/22 0908 fairly weak w/no interference, hrd nice "R. Onda" ID. (Kemper, CO)
- 1540 ● BAHAMAS, Nassau, ZNS1, mentioning "Music on the Bahamas Radio Network" 0712 11/17, on "Music till Dawn" show, man ancr, mostly MoR mx. (Keleher, IN)  
+as easy as pie, as usual, 1/13 w/evening report 2336 in EE. (Allinson, NC)  
+hrd 2/16 0800-0902 mixing w/needed KZAM. ID at 0902 as "Music till Dawn on the R. Bahamas...." New country for me (#53). (Seaver, CA)  
+good w/superpest WPTR nulled and KXEL deep sixed by aurora, ZNS1 had mush mx, then as by Bahama Tourist Board, then soul song 0720 4/1. (Connelly, MA)  
t +5/4 0046-51 w/apparent drama in accented EE, no WPTR, K-index 3. Killed by local static. Sending taped report for confirmation. (Ball, ON)
- 1550 COLOMBIA, Calarca, HJQD, whoever reported an Unid R. Reloj on 1550 will be pleased to learn that there is now an HJQD-1550 in Calarca w/this slogan listed in the '76 WRTH. (Portzer, WA)
- 1550 MEXICO, Nuevo Laredo, Tams., XENU, "La Rancharita Contenta" in well at sunset 2330-55 11/9. Ranchera mx w/full ID 2343. Construction Permit for higher power w/fulltime operation might be in effect now but not sure the s/on s/off rules affecting Mexican daytimers have never been fully explained to me. (Francis, TN) (Me neither, but apparently Mexican daytimers are allowed to stay on till 7 or 8 PM local time, similar to US stations being allowed to s/on at 6 AM - ed)  
+here 11/9 0001 on top w/ID as "XENU." (Nall, KY)  
+12/1 0435 hrd "La Rancharita Contenta" ID here, must be XENU as only one listed w/that slogan. XEBG off. (Lobel, CA)
- 1550 t MEXICO, Tijuana, B.C., XEBG, probably the one w/s/off in SS 0800-02 12/22 while looking for WCCP-1560 hrd later. Wasn't paying attention and missed call but don't know what else it could be. (Rittenhouse, CA)  
+noted w/SS mx and ID 0721 6/14. Can't recall them staying on after

- midnight before so possibly a schedule change. Severe KZAM slop.  
(Portzer, WA)
- 1550 ? UNID, 10/12 fair signal through WOKJ 0710-20 w/tropical rhythms, only ID 0714 sounded like "Emisora más Potenta, Santo Domingo," no Dominicans listed on this channel. (Ball, ON)
- 1551 ? UNID, fair carrier here 0924 12/22 looping southeast hetting 1550. Ideas anyone? (Rittenhouse, CA) (Possibly TIASF, last reported on 1548, has drifted upward - ed)
- 1555 ? UNID, het present against aurora-eneebled Nice-1554. Perhaps Cayman Islands testing at low power, but more likely HCTR3. At 0215 4/2. (Connelly, MA)
- 1560 ● CUBA, Cárdenas, CMGB, 12/22 0711 got this by mistake. Tuned in for WCCP test one hour early. Weak but there. (Jones, NJ)  
+fair w/WQXR off 0722 12/22. (Connelly, MA)  
+12/22 0815 weak and fadey w/XERF slop, usual Reloj Nacional format, SS talk w/clock ticking in background w/pip and "Reloj Nacional" ID every minute. (Kemper, CO)  
+noted w/Reloj pgm (man and woman alternating in SS) signal fair at best but totally in the clear 0725 4/1. (Connelly, MA)  
+strongest signal ever from this one, o/u WQXR w/Reloj ID, time check, 0422 5/3. (Connelly, MA)
- 1560 MEXICO, Ciudad Juárez, Chih., XEJFV, 12/1 1240 w/good "X-E-J-P-V, R. Chamizal" ID. Had accordion mx Mexican style. Mx was not actually ranchero mx. There was no boistrous singing nor did it sound like ranchero mx. Sounded just slightly different. (Lobel, CA)
- 1560 MEXICO, México, D.F., XEVIP strong w/R. VIP ID and MoR mx w/EE anmts. Sounded like automated mx w/McMaster. 1248 12/1. (Portzer, WA)  
+noted 1/1 mixing w/KKAA 0700 w/ID in EE/SS, then into CBS nx. (Ball, ON)
- 1570 MEXICO, Ciudad Acuña, Coah., XERF, positively noted here 8/20 at 0319 w/religious pgm in EE w/American accent. ID noted at 0330 w/slogan "1570 on your Radio dial" in EE. Poor signal but at times good w/interference from Unid station playing mx. First Mexican station for me during my DX career. (Baker, SA)  
+12/29 IDed as "... most powerfull commercial station in the entire world. ...." I doubt that 250 kw is the most powerful in the world by far!  
(Lobel, CA)  
+likely here w/SS talk and mentions of México as it had been hrd a couple of hours earlier w/EE religion atop CKLM, SS talk was atop second Latin w/woman in SS, low pitched het resulting, 0427 5/3. (Connelly, MA)
- 1570.4 ? UNID, a Latin hrd here in SS in and out w/interference on 1570 and CKLM knocked way down due to auroral cx around 0100-0200 1/11. (Foxworth, NY)
- 1570.7 ● DOMINICAN REPUBLIC, Santo Domingo, HIAJ, het present against CKLM 2327 3/9. (Connelly, MA)
- 1570.8 <sup>a</sup> DOMINICAN REPUBLIC, Santo Domingo, HIAJ, "Turismo" station here, first time w/good readable audio, SS talk and mx, easily splittable from aurora weakened CKLM-1570 0240 4/2. (Connelly, MA)
- 1575 ? UNID, SS male vocal, weak 0423 5/3. (Connelly, MA)
- 1580 ● COLOMBIA, Barranquilla, HJQZ, in well w/clear ". Principe IDs dominating the channel, then time check 0230 at 0730 4/1. Most domestics in north US outside groundwave range and almost all Canadians had been greatly weakened at the time, allowing many new Latin American catches on normally-blocked channels. (Connelly, MA)  
+R. Principe good w/SS ID, second Latin w/SS talk 0425 under 5/3. This opening had a marked resemblance in its high-end Latin American enhancement to the tremendous early morning opening 4/1, this apparently due to the approximate one-month solar rotation cycle. (Connelly, MA)
- 1580 ● DOMINICAN REPUBLIC, ??? hrd 0755 11/4 w/good signal. Sounded like Radio Rumacalle, Carlos Malta? What was this?? (Wood, KY)

- 1580 MEXICO, Hermosillo, Son., XEDM, 12/14 0650 w/lively songs and "La Grande de Sonora" promos. Mentioned XEDM in anmt 0702. (Keleher, IN)  
 +booming in o/everything 12/22 0545 w/Latin mx, IDs as "La Grande de Sonora." (Ball, ON)  
 +0300 6/5 w/ranchero mx o/u KDAY w/poor IDs. Why this wasn't in the log earlier beats me! (Newell, BC)
- 1590 MEXICO, Ensenada, B.C., XEHC, R. Bahia, a good "en R. Bahia" drifted through the crud and disappeared 0542 7/5. (Clements, CA)  
 +R. Bahia, ID at 1928. A few ads. (Hanavan, CA)  
 +probably the SS station mixing w/KBBQ and Unid EE station. The interference wrecked possible chances of IDs, so no definite ID. Local KLIV off, probably because of a "blackout" due to the storm 0215 3/3. (Harang, CA)
- 1590 MEXICO, México, D.F., XEVOZ, at good level well atop WAKR w/raucous reverberating "R. Voz" IDs 0735 4/1. New catch during superlative Latin American opening. (Connelly, MA)
- 1594 V COSTA RICA, San José. R. Gama here from normal 1600. Varies 1594-96. Mostly Mexican mx. IDed 0210 10/11. (Schatz, FL)

BRAZIL: from Adam Gaffin of Brooklyn, NY, via Glenn Hauser, comes the following current and future breakdown of Brazilian broadcast stations by power:

Stations of	Current number	Projected number	Notes
100w	231	0	Projected are two stations of 50kw-D and 600kw-N (yes, 600kw night, ed) on 800 and 980 khz from Brasilia (both government stations, ed).
250w	298	147	
500w	9	0	
1kw	159	727	It appears that the projected station on 800 khz is at least in part intended to limit penetration of PJB into the interior of Brazil. All the powers to the left are <u>day</u> powers.
2kw	3	0	
2.5kw	0	6	
3kw	1	0	
5kw	47	157	
10kw	49	80	The Ministry of Communications announced a new frequency allocation to be operative from Nov. 1, 1975, opening the way for 370 new m.w. stations. All stations will be required to reduce power at night. (MWN)
20kw	3	12	
25kw	2	10	
30kw	1	0	
50kw	13	16	
100kw	1	14	
200kw	0	1	
	817	1170	

BOLIVIA: previously reported station closures were temporary and stations returned after a week or so as a prerequisite for getting miners back to work. Others in South America including Radio Santa Fé in Colombia and Radio Balmaceda were closed for periods of 4 weeks and 10 days for reporting what they should not report. (MWN) The Government has authorized reopening of Radio Pio XIII in the mining district of Catavi, 350 km from La Paz. Station was closed down for political reasons, and the transmitters were dismantled. (SCDX)

CAYMAN ISLANDS: According to a letter from the station, Radio Cayman is not yet on the air, but hopes to be on sometime in April 1976. They are presently waiting for final installation of their transmitting equipment. The information listed in the WRTH '76 is for the most part correct; they will be on 1205 and 1555 khz and will be on until approximately 2230 EST (0330 GMT), with about 90 hours a week of on-the-air time. (Keeney, KS)

COLOMBIA: on September 30, 1975, the Colombian government released a decree #2085 which classifies stations into four groups (informativo, recreativo, educativo, and docente); sets limits on the number of stations in a city (3 categories: high-powered, 1 station per 250,000 people; medium-powered, 1 per 100,000; low-powered, 1 per 30,000); and places restrictions on everything from coughdrop ads to saying anything that might interfere with judicial or police investigations. In the event of an emergency, private stations are to be merged with Radio Nacional to provide official information. It also compels stations to give complete IDs: name, call, address, and frequencies, at sign/on and sign/off, and allows the Ministry of Communications to shut down a station if it is interfering with another and keep it shut down until the station can prove there is no longer any interference problem.

The lengthy 104-article decree also restricts programming (no foreign radionovelas on m.w., no novelas on FM). (From the El Tiempo de Bogotá and two other papers, summarized by Adam Gaffin, Brooklyn, NY, U.S.A.)

CUBA: the following 14 new provinces were newly created in February 1976, on the 20th anniversary of Fidel Castro arriving in Orient, aboard the yacht "Granma." In fact, the new Cuban slogan is "en el año del vigésimo aniversario del Granma." (Schatz, FL)

Old	New	Capital
Pinar del Río	Pinar del Río	Pinar del Río
La Habana	La Habana	unknown
La Habana	Ciudad de La Habana	La Habana
Matanzas	Matanzas	Matanzas
Las Villas	Cienfuegos	Cienfuegos
Las Villas	Villaclara	Santa Clara
Las Villas	Sancti Spiritus	Sancti Spiritus
Camagüey	Ciego de Ávila	Ciego de Ávila
Camagüey	Camagüey	Camagüey
Oriente	Las Tunas	Victoria de las Tunas
Oriente	Granma	Bayamo
Oriente	Holguín	Holguín
Oriente	Santiago de Cuba	Santiago de Cuba
Oriente	Guantánamo	Guantánamo

The new Cuban provinces may simply have been raised from municipio status.

ECUADOR: Radio Nacional has signed a contract with an ITT subsidiary for three 50kw transmitters to be used at Guayaquil-600, Loja-620, and Quito-640, to cover the entire country. Also on order is modern studio equipment, all expected to be operational within one year. (Hauser, IL)

URUGUAY: according to the newspaper El Día, new transmitters (200kw for CX6, 50kw each for CX26, 1050 and CX38, 1290) will be installed at Santiago Vásquez near Montevideo. Stations belong to SODRE. (SCDX)

This apparently ties in with planned power increases and frequency shifts for m.w. stations in Brazil. 650 khz, which is CX6's frequency, is Uruguay's International channel. (Taylor, IN)

The new Standard Time from April is GMT-3 hours. During the first part of 1975, it was GMT-2 hours. (MWN)

VENEZUELA: the following are some stations that are not listed in WRTH '75. (SCDX)

650	5kw	Maracay	Radio Vision, 1000-0400. Avenida Ricardo Zuloaga
			Los Chaguarams, Caracas.
950	5kw	Caracas	same as above
YVRE	1190	10kw	Caracas
			Radio Barinas, 1000-0400. Centro Residencial el Bque., Edif. Ecuador, PB1-B, Avenida Libertador, Caracas.
YVRM	1260	5kw	Caracas
			Radio Impacto, 0930-2400 local time. Residencias Parque Sta. Mónica, Avenida P.M. Morantes, Caracas. (From Valencia, 850 khz.)
	1340	5kw	Chacaíto
			Radio Uno, 1000-0400. Edif. Vittoria, Calle Chacaíto, Chacaíto.
YVJJ	1450	5kw	Catia la Mar
			Radiolandia, 1000-0400. Edif. Caoma, Ibarra a Pelota, Caracas.

The address of Radio Guaicaipuro, 1360 khz, is: Edif. Guaicaipuro, Calle Bolívar, Charallave, Edo. Miranda.

### Dear Radio Friend,

We appreciate very much your letter of Apr. 11, '68 giving reception of broadcast from our station on 9,148. The data given by you has been checked and we take pleasure in verifying your report.

We would appreciate any further reports on the receiving conditions in your district, as well as any suggestions or criticism which you may care to make. It helps us in our work and it is pleasant to keep in touch with our audience.

We would also appreciate it if you would invite your friends to listen to our programs.

With best wishes, we are

**Radio Station XELO**  
C. Juárez, Chih., México

800-Kcs.

150,000 Watts

### YSS Radio Nacional de El Salvador

San Salvador, C.A.  
HORARIO DE TRANSMISION  
De lunes a sábado, de 6:00 am. a 11:00 pm.  
Los domingos, de 6:00 am. a 10:00 pm.

QSL

FRECUENCIAS:

655 Kcs. Onda Larga.

5980 Kcs. BANDA de 49 mts.

9555 Kcs. BANDA de 31 mts.



THE CARACOL NETWORK OF COLOMBIA

CARACOL (Cadena Radial Colombiana) is actually four networks, or rather chains. There are the Radio Reloj (17 stations) and Radio Quince (5 stations) chains, which rely more on local programming, with Radio Quince emphasizing more modern elements. There is also the Cadena Fundamental (19 stations), including the three 50 kw ones, and the Cadena Deportiva, with 31 stations. The Cadena Fundamental has "Programación Consolidada," and the Cadena Deportiva runs sports, music and time. They estimate that 36.8% of the Colombian population listens to CARACOL. From 0415 to 0500 GMT, some stations run a program called "Radio Lente." Be careful you don't think this is a new station.

Three stations have 50 kw, nine have 10 kw, and the remainder have one kw. All stations maintain a backup transmitter of the same power.

The following list of CARACOL stations was taken from Tarifa 18<sup>a</sup> of CARACOL, with frequencies and call signs added from the WRTH, and where the WRTH did not give the information, from Cinuenta Años de Radiodifusión Colombiana, both sent in by Pedro José Guerrero Q., Asistente Vicepresidencia.

750	HJDK	Medellín	La Voz de Antioquia
790	HJDC	Medellín	Radio Quince
820	HJED	Cali	La Voz de Río Cauca
830	HJDM	Medellín	Radio Visión
850	HJKS	Bogotá	Emisora Nuevo Mundo
950	HJFN	Pereira	La Voz del Café
1010	HJCC	Bogotá	Emisora Mil Veinte
1040	HJAI	Barranquilla	Radio Tropical
1050	HJGX	Lorica	Radio Progreso de Córdoba
1060	HJMG	Turbo	Radio Prosperidad
1080	HJDZ	Medellín	Radio Reloj
1090	HJBC	Cúcuta	La Voz de Cúcuta
1090	HJIH	Sogamoso	La Voz de Oriente
1100	HJAT	Barranquilla	Radio Reloj
1100	HJCN	Bogotá	Radio Reloj
1100	HJTM	Ocaña	Radio Sonar
1110	HJEW	Cali	Radio Reloj
1120	HJGH	Bucaramanga	Radio del Comercio
1130	HJJW	La Unión	Ondas del Mayo
1170	HJJY	El Guamo	Radio Lemaya
1180	HJFX	Manizales	La Voz del Ruiz
1220	HJAJ	Barranquilla	Radio Quince
1220	HJNM	Ipiales	Emisora Cultural Bolívar
1230	HJFP	Neiva	Radio Neiva
1250	HJEM	Corozal	La Voz de Corozal
1260	HJDV	Ibaqué	Radio Cacique
1260	HJET	Cali	Radio Quince
1260	HJKX	Villavicencio	Radio Cinco
1270	HJKZ	Pereira	Onda Libre
1270	HJTX	Bucaramanga	Radio Quince
1280	HJFI	Armenia	Pregonos del Quindío
1280	HJLR	Pasto	Radio Pasto
1280	HJMB	Concordia	Radio Surcoeste
1290	HJHI	Garagoa	La Voz del Garagoa
1290	HJKY	Girardot	Ondas del Puerto
1300	HJDG	Montería	Transmisora Río
1300	HJLD	Pereira	Radio Reloj
1300	HJNB	Bucaramanga	Radio Reloj
1310	HJJO	Tumaco	La Perla del Pacifico
1310	HJJZ	Bogotá	Radio Quince
1320	HJHT	Guateque	Radio Guateque
1320	HJLZ	Arauca	La Voz del Cinaruco
1320	HJMS	Barrancabermeja	Radio Regia
1340	HJFH	Anserma	La Voz de Anserma
1350	HJHW	Puerto Boyaca	Ecos del Río
1360	HJGI	Socorro	Emisora José A. Galán
1360	HJNI	Sincelejo	Radio Sabanas
1360	HJTV	Cartagena	Radio Reloj
1380	HJLG	La Dorada	La Voz de La Dorada
1410	HJEI	Buga	Radio Guadalajara
1420	HJAP	Cartagena	Radio Bahía
1420	HJHK	Manizales	Radio Reloj

1420	HJNR	San Gil	Radio Guanentá
1430	HJBH	Santa Marta	Radio Magdalena
1430	HJRL	Líbano	Antena de los Andes
1440	HJEK	Tuluá	Radio Reloj de Tuluá
1460	HJFL	San Agustín	Emisora Atalaya Agustiana
1470	HJNT	Palmira	La Voz del Paraíso
1490	HJOJ	San Marcos	La Voz de San Marcos
1500	HJLJ	Cali	Radio Tigre
1520	HJLS	Popayán	Radio Popayán
1530	HJGD	Chinquinquirá	Emisora Reina de Colombia
1530	HJJB	Sevilla	Radio Sevilla
1560	HJHE	Málaga	Voces Rovirenses

LATIN AMERICAN ALL-NIGHTERS

Compiled and sent by Sr. Cláudio Moraes of Florianópolis, Santa Catarina, Brazil.

khz	Call	City	Sign
540	LRA	Santa Fé, Argentina	Radio Nacional
550	CW1	Colonia, Uruguay	Radio Colonia
	YVKE	Caracas, Venezuela	Radio Mundial
560	ZYH57	Caxias do Sul, Brazil	Rádio São Francisco
570	HIMS	Santo Domingo, Dominican Rep.	Radio Cristal
580	ZYM3	Cataguases, Brazil	Rádio Cataguazes
590	LS4	Buenos Aires, Argentina	Radio Continental
	ZYZ21	Rio de Janeiro, Brazil	Rádio Relógio Federal
600	HJHJ	Barranquilla, Colombia	Radio Libertad
610	HJKL	Bogotá, Colombia	Radio Nueva Granada
620	PRH7	São Paulo, Brazil	Rádio Panamericana
630	LS5	Buenos Aires, Argentina	Radio Rivadavia
	ZYF234	Belo Horizonte, Brazil	Rádio Itatiaia
645	ZP19	Coronel Oviedo, Paraguay	Difusora Caaguazú
670	LU9	Mar del Plata, Argentina	Radio Mar del Plata
680	PRC2	Porto Alegre, Brazil	Rádio Gaúcha
690	CX8	Montevideo, Uruguay	Radio Sarandi
730	ZYR80	São Paulo, Brazil	Rádio Mulher
	CX10	Montevideo, Uruguay	Radio Ariel
750	HJDK	Medellín, Colombia	La Voz de Antioquia
	YVKS	Caracas, Venezuela	Radio Caracas
770	HJKH	Bogotá, Colombia	Radio Tequendama
780	ZYU71	Porto Alegre, Brazil	Rádio Princesa
790	LR6	Buenos Aires, Argentina	Radio Mitre
820	CP35	La Paz, Bolivia	Radio Altiplano
	HJED	Cali, Colombia	La Voz del Río Cauca
830	LT8	Rosario, Argentina	Radio Rosario
840	PRH9	São Paulo, Brazil	Rádio Bandeirantes
850	HJKC	Bogotá, Colombia	Radio Nuevo Mundo
860	ZYD68	Rio de Janeiro, Brazil	Rádio Mundial
	HLLR	Santo Domingo, Dominican Rep.	Radio Clarín
890	HJCE	Bogotá, Colombia	La Voz de Bogotá
900	ZYB74	Natal, Brazil	Rádio Nordeste
	ZYD73	Rio de Janeiro, Brazil	Rádio Tamoio
910	LR5	Buenos Aires, Argentina	Radio Excelsior
930	CX20	Montevideo, Uruguay	Radio Monte Carlo
940	HJGB	Cali, Colombia	Radio Eco
950	LR3	Buenos Aires, Argentina	Radio Belgrano
960	ZYH280	Porto Alegre, Brazil	Rádio Caicara
980	ZYD70	Rio de Janeiro, Brazil	Rádio Nacional
990	LR4	Buenos Aires, Argentina	Radio Splendid
1000	PRB9	São Paulo, Brazil	Rádio Record
1005	HJJR	Neiva, Colombia	Radio Colosal
1010	LV16	Río Cuarto, Argentina	Radio Río Cuarto
1025	HJFT	Ibagué, Colombia	Ecos del Combeima
1030	LS10	Buenos Aires, Argentina	Radio del Plata
1040	PRG2	São Paulo, Brazil	Rádio Tupi
1060	HJFJ	Manizales, Colombia	Transmisora, Caldas

1070	LR1	Buenos Aires, Argentina	Radio El Mundo
	HJAG	Barranquilla, Colombia	Emisora Atlántico
	HJGG	Bogotá, Colombia	Radio Santa Fé
1090	CX28	Montevideo, Uruguay	Radio Imparcial
1120	ZYH223	Porto Alegre, Brazil	Rádio Continental
1130	ZYP58	Brasilia, Brazil	Rádio Alvorada
1150	LU6	Mar del Plata, Argentina	Radio Atlántica
1170	ZYE347	Curitiba, Brazil	Rádio Atalaia
1180	HJOV	Neiva, Colombia	Radio Sur Colombiana
	PRE3	Rio de Janeiro, Brazil	Rádio Globo
	OCY4Z	Junín, Perú	Radio Libertad
1190	HJCV	Bogotá, Colombia	Radio Cordillera
1200		Porto Alegre, Brazil	Rádio Pampa
1210	ZYZ9	Curitiba, Brazil	Rádio Universo
	HJFR	Neiva, Colombia	La Voz de Huila
1235	HCMB5	Cuenca, Ecuador	Radio Popular Independiente
1260	LT9	Santa Fé, Argentina	Radio Brigadier General Estanislao López
1270		Porto Alegre, Brazil	Rádio Clube Metrópole
	ZYX9	Goiania, Brazil	Rádio Brasil Central
1280	ZYD74	Rio de Janeiro, Brazil	Rádio Tupi
1300	ZYB	João Pessoa, Brazil	Rádio Correio da Paraíba
	ZYX22	Cuiabá, Brazil	Rádio Cultura
1310	HJJZ	Bogotá, Colombia	Radio Visión
1330		Santos, Brazil	Rádio Cacique
1360	ZYS86	Curitiba, Brazil	Rádio Independencia
1370		Campo Grande, Brazil	Rádio Cultura
1380	CB138	Santiago, Chile	Radio Colo Colo
1390	ZYE202	Campinas, Brazil	Rádio Cultura
1440	ZYE350	Curitiba, Brazil	Rádio Clube Paranaense
1600	CW56	Mercedes, Uruguay	Radiodifusora Soriano

H-38  
**JAMAICA:** From the Arawak Indian (original inhabitant) word "XAYMACA", meaning "land of Wood & Water." Island is 4411 square miles with a population of nearly 2,000,000.

J.B.C.

Your report of reception of our station on March 11, 1974, is confirmed. You were tuned to our transmitter at Montego Bay, Mount Salem, 700 KHz.

Programmes originate from studios at 5 South Odeon Ave., Kingston 10, Jamaica, West Indies.

*Newton James*  
 Newton James

Director of Engineering  
 Jamaica Broadcasting Corporation.

**AIR MAIL**



Mr. Philip Bytheway,  
 6635 57th North East,  
 Seattle, Washington 98115,  
 U. S. A.

## DXING THE TA'S

Hints for the Beginner on Receiving Trans-Atlantic Medium Wave Stations  
by Richard Eckman

### I. Equipment

Our first consideration is equipment. A communications type receiver is not an absolute must for listening to TA's but its improved selectivity will help in the reception of split frequencies (i.e., stations lying between the normal ten khz separation of North American stations). Under very favorable conditions, TA's can be heard on such simple equipment as clock radios with amazingly good signal strength. Generally speaking, any moderately good receiver which can receive the easier Latin American splits can do the job for the easier TA's.

A loop antenna is almost a must for decent TA reception because of the crowded band conditions of today. Any type of a loop - from a simple spiral type to the Space Magnet series and on up - will be sufficient. For the first two years of DXing I used a Grundig receiver primarily designed for shortwave and an SM-1 with very good results.

### II. Location

Location is, of course, very important when dealing with TA reception. The best location is along the eastern seaboard. As you go further inland, reception drops off considerably but the situation is far from hopeless. Even the West Coast DXer has a chance to log several TA's.

### III. When to Listen

Several factors must be considered when determining the best times to receive TA's. First, there are the seasonal and daily variations in the ionosphere. The peak months of TA reception tend to be during the autumn although theoretically TA reception should be best around the winter solstice because of the longer nights. But in actual practice this does not hold up because of a variety of factors. This, however, is out of the scope of this article.

TA reception can occur at anytime from local sunset to European sunrise. To the novice DXer the best time to listen is after 0300 GMT when most TA's reach their peak strength and there is less domestic interference to contend with.

Reception does not occur every night during the autumn. In general, nights of good TA reception tend to group together for a number of days at a time.

Geomagnetic activity strongly affects Trans-Atlantic reception. The leading MW propagation expert, Gordon Nelson, has found that prolonged periods of low geomagnetic activity are necessary to guarantee excellent high latitude TA reception.

Some prediction of TA reception is possible. The newcomer should not blindly listen for TA's. This can prove to be a waste of time. There is one simple method that can be used to predict whether TA reception will be probable on a given night. This prediction method comes in the form of the National Bureau of Standards radio station WWV. At 14 minutes after the hour, a propagation report is broadcast. Among other things, a "K-index" is mentioned. This index is the most useful "barometer" for TA reception. The K-index is closely related to the  $A_p$  index published in DX MONITOR. Very low values of the A-index are generally needed for good TA reception. When the K-index is below 2, TA reception will be best. Be forewarned though, that TA reception will not always be possible when the K-index is low.

### IV. Receiving TA's

Since almost all TA's heard in North America are on "split" frequencies, careful tuning is necessary to receive intelligible audio from TA stations.

Sometimes you will encounter a whistling tone adjacent to a North American station. This is known as a heterodyne. These tones indicate the presence of a carrier within 5 khz of a domestic frequency. Very careful tuning is required to get audio without the heterodyne interference. If, after a reasonable time, no audio has been heard, it is best to try another frequency. Be careful not to confuse heterodynes (or for that matter, TA carriers) with television receiver interference.

Sometimes a carrier may be heard without any audio. This is due to the low modulation levels of most European broadcasters. On excellent TA nights, audio quality may be near perfect.

### V. "Best Bets"

Below is a list of "best bets" for your first TA receptions. The list is solely the authors opinion, so therefore don't be surprised if you receive a TA not on this list. Check your local situation carefully, since strong locals may effectively mask otherwise good possibilities. High band TA's tend to be received more often than those on lower frequencies because of slightly different signal propa-

gation. Consult the IRCA Foreign Log for other TA possibilities.

**GERMANY** - This country offers many excellent possibilities. Westdeutscher Rundfunk in Köln, 1586 khz (800 kw), is probably the easiest TA to receive. It is often heard with near local strength during the autumn and winter months after local midnight. This is a 24 hour outlet with programming totally in German. A variety of different types of programming can be heard on WDR. There are usually pips or tones on the hour which often make it through the sideband splash when reception is marginal. An interval signal is sometimes played approximately one minute before the hour on some nights. When WDR is in well, check for other German outlets on 1602 and 1538 khz. Consult WRTH for the latest schedules.

**FRANCE** - Radio France, Nice, 1554 khz (300 kw), is often well heard. It is also a 24 hour outlet. There seems to be four pips broadcast on the hour. Programming varies from French and American popular music to telephone talkshows. Reception tends to be best after CBE-1550 and WQXR-1560 sign-off around 0100 ELT. Lille-1376 (300 kw) has parallel programming to the 1554 operation but sign-on is at 0430 GMT. Lille tends to be weaker than the Nice outlet. Bordeaux-1205 has made it to the West Coast a few times.

**MONACO** - Monte-Carlo on 1466 khz (400 kw) can be heard well on fair to good TA nights. This is not a 24 hour outlet. Trans World Radio uses this transmitter at various times. Sign-on begins at 0430 GMT when the carrier is turned on. Tone tests follow and then the Interval Signal begins at 0440 which is repeated until 0445 when a TWR religious program in German is broadcast. A French popular music program begins at 0515. Italian can be heard from 0600 on. Sunset reception is also possible. Trans World Radio's English program is from 2300-2330 GMT most evenings. Check WRTH for details.

**PORTUGAL** - Several outlets can be heard in North America. Best are 665, 775, 1578, and 1594 khz. 1034 is a good West Coast possibility. Consult WRTH for schedules.

**MOROCCO** - The outlets on 818 and 935 khz are heard well with Arabic chanting and music. These outlets can be heard even when high latitude conditions are poor. These may be good West Coast possibilities.

**SENEGAL** - Dakar on 764 khz is perhaps the best bet for West Coast DXers. Sign-on is at 0600 GMT. An interval signal is broadcast from approximately 0555 on a harp-like instrument. Typical native music (unlike Arabian music) can often be heard. French is also occasionally broadcast.

**ENGLAND** - Another good West Coast possibility is BBC on 1214 khz. Try for this one after 0500 GMT. Programming is in English as this is a home service. BBC-1295 khz (Foreign Service) is a good East Coast bet. BBC-647 is often heard with strong signals on the East Coast and has been heard on the West Coast.

**ALBANIA** - Tirana's outlets on 1394 and 1457 khz can often be heard at local sunset as well as after 0400 GMT. Between 2300-2330, Spanish is broadcast on 1394. 1457 features French from 2230-2300. Sign-off is always with the Internationale. A variety of languages are aired on 1394 after 0400 GMT.

**SWITZERLAND** - The 1562 outlet has recently increased power to 300 kw. Sign-on is at 0500. An interval signal appears just before sign-on. Classical music can often be heard at near local levels past 0700 GMT in midwinter.

It is hoped that this article helps you to make your first Trans-Atlantic receptions. And don't forget to report your catches to DXWW.

TELEGRAPHIC ADDRESS: "THRENE, WANGARATTA"

TELEPHONE: WANGARATTA 212051

P.O. BOX 167

# WANGARATTA



the voice of north east victoria



## BROADCASTING CO. PTY. LTD.

TEMPLETON STREET, WANGARATTA, VICTORIA, 3677

## ATLANTIC LOGGINGS

- 155 ROMANIA, Brasov assumed the weak talk, music here 0349 9/22 faded by 0400. Though a weak carrier sometimes detected here, this is my first audio here this year. (Foxworth, NY)
- 164 FRANCE, Allouis at fair level o/QRN w/male FF vocal, then FF talk 0200 4/27. At good strength w/mushy instrumental of "I'm Beginning to See the Light," then man in FF 0230. Good w/"Great Gatsby" theme song followed by FF teletalk 0342 4/28. (Connelly, MA)  
+was heard very well 0330 5/28 while at Gordon Nelson's in Watertown. (Connelly, MA)
- 175 BELGIUM/NETHERLANDS. The Dutch and Belgian Radio decided to start broadcasts in Dutch and Flemish on a new 600 kw transmitter in November, 1978 (SCDX)
- 180 GERMANY-WEST, Saarlouis briefly at good level o/WGU20 slop w/man and woman in FF, then instrumental music 0244 4/27. (Connelly, MA)
- 185 GERMANY-EAST, Oranienburg fair w/GG female vocal 0315 4/27. (Connelly, MA)
- 200 GREAT BRITAIN, Droitwich, BBC usually best in 0730-0820 period in early January, though was nice at 0705 1/2 w/light music show, man announcer, IDs as Radio 2. Only QRM here is beacon COH-198. (Foxworth, NY)
- 209 MOROCCO, Azilal fair w/AA music, some QRN 0155 4/27. (Connelly, MA)
- 218 MONACO, Monte Carlo often good around 0500 in September and sometimes equal to the king on 164, though has more noticeable fades than 164 does. (Foxworth, NY)  
+peaks in the 0600-0700 period in early January and is heard often at 0700 w/8 a.m. TC, very good signal many nights and is best European LW here now. At 0700 1/4 there was a definite second station u/them w/man speaking and may have been Oslo, Norway. Have never heard any airport weather stations on this frequency. Usually beacon "UY" (Rouyn, Que.) is heard here w/fair to good signals. (Foxworth, NY)
- 227 POLAND, Konstantynow likely the source of het on TAN beacon 0312 4/27. (Connelly, MA)
- 236 USSR, synchronized outlets noted here w/man in RR well atop Luxembourg and NZW beacon 0303 4/27. (Connelly, MA)
- 251 ALGERIA, Tebessa may have been AN one night as was heard loud at 0135 1/4; also had fair signals from 529 and a fair 548 at same time but 251 was best by far. Beacon "ZV" (Sept-Iles, Que.) operates on this frequency and, like "UY"-218 serves as a tuning aid to insure being on the right channel for those w/uncalibrated receivers. Similarly, beacon "MT" operates on 208 (Chibougamau, Que.) and is heard when Morocco is not coming in. All these Canadian beacons transmit a long dash after the ID, by the way, and also are good indicators here of a lot of potential European skip. (Foxworth, NY)  
+AA chanting, very strong signal and audio, first broadcast station on LW 0500 1/26. (Colyard, NJ)  
+noted at poor strength w/AA music jammed by "SKR" beacon 0306 4/27. (Connelly, MA)
- 254 ANDORRA: Radio International Andorra will start at the end of July '75. The transmissions will be 24 hours on 254 or 263 on LW. The programs will be broadcast in French, English, German and Dutch and each language will be used for 6 hours. It's been reported that these transmissions would start May 1, and that the power used should be 1200 kw. (SCDX)  
+The International Service of Radio Andorra which was supposed to come on the air on May 1st seems to be a joke. At least, no one at the station had heard anything about it - and they should know. (MWN)

- 529 ALGERIA, Ain Beida excellent w/AA music 2335-2352 8/27; no sign of the Swiss. (Nelson, MA)
- +woman in AA, then AA music; good signal. Hatted by beacon "UUP" on lower side, 0021 12/23. (Connelly, MA)
- +very strong, AA chanting and man talking 12/28 2330, heard later at same level. (Colyard, NJ)
- +fair w/female AA vocal at weak audio level 2355 2/3. (Connelly, MA)
- +good w/AA music 2342 2/6. Operatic male AA vocal noted here 0143 2/16. Very strong w/a-capella male AA vocal //548/575 0250 2/17. (Connelly, MA)
- +at fair level w/man in AA, hatted by CW beacon "YCH" and MCW beacon "NZ" 2242 2/24. At good strength w/sing-song AA talk 0407 2/25. (Connelly, MA)
- +w/male AA chanting, SINPO 44143 (wicked QRN) 0207 3/4. (Connelly, MA)
- +good w/female announcer in AA, then fast AA mx w/a long instrumental lead-in, then a female vocal 0108 3/25. Oran-548 present also at comparable strength but audio difficult to extract due to CFNB. (Connelly, MA)
- +fair w/man in AA, deep fades noticed 0450 4/11. (Connelly a, MA)
- +fair w/man in AA, "YCH" CW beacon near zero beat, also QRM from MCW beacons "NB" and "UUP" 0102 4/27. (Connelly, MA)
- +fair to good w/man in AA and occasional guitar mx 0410 5/28. 548 was just carrier in CFNB slop. (Connelly, MA)
- 529 ISRAEL opens a new 100 kw m.w. transmitter on 529.
- 529 SWITZERLAND, Beromünster dominant w/man in GG 2215 1/27. (Connelly, MA)
- 529 ? UNID, possibly Switzerland, noticeable SAH on Algeria 2342 2/6. (Connelly, MA)
- 539 ? UNID, fairly strong carrier noted here after WLIX s/off 2300 9/22; not quite enough for audio and either f/out or s/off by 2330. Frequency was 538.9998 which is EBU's latest exact value for the Hungarian; unfortunately Kuwait also falls within the variation range so no help there. There is also reportedly a new 100 kw Israeli station operating here according to EBU so AA programming here is not necessarily Kuwait now. (Nelson, MA)
- 548 ALGERIA, Oran-Les-Trembles fair at dusk fade-in 2330 8/27; first Algerian of the night most of the time. Excellent running NSP w/Koran for Ramadan 9/20. (Nelson, MA)
- +poor to fair w/male AA vocal 2250 2/15. Strong w/AA mx //529/575 0250 2/17. (Connelly, MA)
- +w/AA chanting //529, poor in QRN and CFNB slop 0209 3/4. (Connelly, MA)
- +w/poor to fair copy in bad CFNB splash, mostly just a het, 0455 4/11. (Connelly a, MA)
- 548 ? UNID OC, no audio, very strong 0300 1/5. (Colyard, NJ)
- 566 IRELAND. The new 500 kw outlet of Radio Telefis Eireann at Tullamore in the Irish Midlands will début in autumn. It will broadcast to the entire United Kingdom as well as Ireland. Existing transmitters at Athlone, Dublin and Cork will probably become local services. (SCDX)
- +RTE's new transmitter at Tullamore will take the air within 2 months. Irish press reports say, "It will broadcast to all of Britain as well as Ireland." The RTE says they will have to think especially on their several news broadcasts with emigrants in mind and that the Current Affairs Division has already worked out a program plan to meet the new situation. The old 100 kw Athlone transmitter will be used for an extension of local broadcasting. Meanwhile, there is a debate in Eire about the proposed new RTE TV channel. A lot of people want it to relay BBC-I programs, which in any case are received directly by quite a lot of the population. RTE wants to use the channel for their programs. (SWNS, 9/2)
- +Radio Telefis Eireann is currently testing their new 500 kw Tullamore transmitter at a reduced power of 150 kw. This site, intended as a replacement for the Athlone transmitter, was chosen for good ground conductivity. Later this year, the station will use 500 kw and will be known as RTE Radio Athlone. Reports to Reception Investigations, RTE, Tonnybrook, Dublin 4, Republic of Ireland. (SCDX)
- +With lengthening nights, Athlone has again become audible here at s/on. Heard 10/23 w/TT 0625, into IS 0628 and 6 pips on the half-hour 0630. Man and woman, sometimes nice Irish mx. Starts fading around 0650, heard w/same format next two nights. (Foxworth, NY)
- +Athlone, the new Irish transmitter is now being tested; noted w/strong

signals 10/27 w/OC 0720, pips and s/on 0730, but weak audio. Audio better next AM at same time. According to very recent information from Arctic, they are having difficulty matching the two 250 kw transmitters to the antenna and consequently have been operating w/just one. (Nelson, MA)

- 566 ? UNID. Fair signal w/soft popular mx 0656 10/2; gone by 0716. DF and considerations of dawn timing suggest it was probably Valencia do Minho, Portugal. No sign of Ireland at their 0730 s/on so the imminent new high power transmitter is probably not on yet. (Nelson, MA)  
+het on low side of WMCA during excellent trans-Atlantic opening 2220 1/27. (Connelly, MA)
- 575 ● ALGERIA, Bechar fair to good w/man speaking AA 2330-2334; several other carriers present but no other audios on 8/27. (Nelson, MA)  
+fair w/AA mx 2247 2/15 at good level w/male AA vocal //529/548 0250 2/17. (Connelly, MA)  
+battling it out w/"Cucu" 0410 2/25 w/a rough low het resulting. (Connelly, MA)  
+at fair level w/chanting, high adjacent slop factor. Low background het from assumed "Cúcu" 0211 3/4. (Connelly, MA)
- 575 GERMANY-WEST, SDR, Muhlacker very strong w/soft dance mx and announcements in definite GG 0410 10/3. There are now 6 European zone stations on this channel w/total power in excess of 2500 kw so presumptive IDs without good DF or a positive language ID can be misleading. (Nelson, MA)
- 575 ? UNID, good level but too much splatter from local WMCA, thought I heard GG man 2345 12/28. (Colyard, NJ)
- 584 SPAIN, RNE, Madrid unusually strong 0424-0530 8/20; SS popular mx and RNE ID by man at half hour. No other carriers visible. (Nelson, MA)  
+in w/good signal 0422 9/6 w/woman in SS. Program //683, 737 and possibly 854 which were all in fair to good at this time. (Eckman, PA)  
+fair level, SS mx and announcer, España mentioned 0100 11/30. (Colyard, NJ)  
+in well w/man in SS followed by vocal mx 0615 12/28. (Connelly, MA)  
+weak SS male announcer w/popular mx 0600 1/7. (Colyard, NJ)  
+potent w/SS talk, instrumental disco-rock was interspersed 0437 3/1. (Connelly, MA)  
+poor in heavy QRN. Cx seem to be in an early transition process to those of summer. This reception at 0212 3/4. (Connelly, MA)  
+at good level, some WEEI slop, man in SS was followed by slow operative male SS vocal 0424 3/25. (Connelly, MA)  
+fair w/soft mx, then man in SS 0059 4/27. (Connelly, MA)
- 584 ? UNID AA mx, fair signal, much slop 2350 1/24. (Colyard, NJ)
- 593 GREAT BRITAIN. The tests from Tatsfield here have been heard in the Netherlands and as far north as Blackpool on the north-west coast. Official explanation is that they are propagation tests. (SWNS, July)  
+The BBC has been testing from the old Tatsfield Receiving Site. Tests were reported in daylight on 4/3, 4, 24, and 25. BBC Engineering Dept. says the tests are being conducted by their Research Department and are propagation tests at the little-used end of the MW band. (MWN, June)
- 593 ? UNID, 2 hz het noted 0258 9/24. Several possibilities. (Schatz, FL)
- 602 FRANCE, Lyon-Tramoyes I strong in FF 2246 9/25. (Nelson, MA)  
+assumed the one w/man and woman in FF dialogue 0553 10/6. First time anything heard on this frequency, fair w/QSB. (Foxworth, NY)  
+was in again fair, woman speaking 0632 10/25. (Foxworth, NY)
- 611 ● MOROCCO, Sebba-Aioun I the dominant station on channel 2240-2245 w/readings from the Koran 9/25. (Nelson, MA)
- 611 RHODESIA, Gwelo, RSC General Service heard 3/6 at 2219 w/mx including Alan Sherman record. Announcements were by man in EE, good signal though w/QRN. (Baker, SA)
- 611 ? UNID strong het on WGIR on several occasions; 2220 1/26 and 2340 1/27. (Connelly, MA)  
+"Beautiful" mx rising briefly above bad slop 2353 2/6. (Connelly, MA)
- 629 ● TUNESIA, Tunis-Djebeida unusually strong in AA for Ramadan 0418 9/25 and

0025 9/9; noted running AN most nights. (Nelson, MA)  
+measured on 629.079 w/AA chanting 0455 9/24. (Schatz, FL)  
+noted strong w/Koran 0418 9/25 on measured 629.082. (Nelson, MA)

638 t SPAIN, La Coruña, RNE apparently the one here w/light mx, five time pips 0500 9/1. Seemed # 683. (Eckman, PA)  
+RNE the strongest trans-Atlantic on the lower part of the band 0450 9/7 w/woman in SS. (Nelson, MA)  
t +carrier noted 0450-0510 10/21, strong but no audio. This on a good trans-Atlantic night. (Abraham, MI)  
+strong w/man and woman reading news 0004-0005; IS once 0007 and carrier cut. SAH of 4.3 hz visible until RNE carrier cut; no time for frequency measurement on second station; according to latest EBU measurements, second station was probably BBC Cyprus relay. (Nelson, MA)  
+noted w/its best signal in a couple years on this channel 2320 1/27. Was strong again on 1/29. (Stanbury, ON)  
+hetting CBN (CMQ not yet faded in), man in SS audible when o/CBN. Definitely the Spaniard as not co-channel w/CBN 2304 2/3. (Connelly, MA)  
+fair w/soft mx, some WPRO buckshot 0520 3/25. (Connelly, MA)  
+good w/man in SS, CMQ no problem 0504 4/11. (Connelly, MA)  
+poor w/fragmentary audio 0508 4/27. (Connelly, MA)  
+synchronized RNE outlets poor to fair, man in slow and then fast SS 0423 5/28. (Connelly, MA)

647 GREAT BRITAIN, Daventry noted w/BBC correspondent in Northern Ireland and the daily atrocities 0407 9/9. Very clear and readable. (Schatz, FL)  
+almost local level in RR 0352-0400, then into EE nx 9/25. (Nelson, MA)  
+noted w/IS at 0237 9/27. S/on in RR at 0245; good level. Was in EE w/World Service nx at 0301. (Eckman, PA)  
+10/2 0350-0405 taped. Nx in RR w/good signal. Govorit London ID by a female at 0359 then EE ID. BBC World Service and nx in EE. Faded out by 0405. I've been getting a carrier for a few days and the audio was exceptionally good. (Williams, OR)  
+really surprising - after years of lousy reception, now this is really easy; 0400 10/5 and even better 0529 10/6 ending RR and into "English by Radio," was detectable on hand-held 6-transistor pocket portable. Fantastically good audio for a TA. Suggest west-coasters watch this one. (Foxworth, NY)  
t +seems only possibility for audio here 0600 10/3. (Sherman, MN)  
+potent w/jazz mx 2315 12/21; level so good that this stations excellent fidelity response could be appreciated. (Connelly, MA)  
+like local, "V" IS 0338 followed by RR program 0345, EE announcer 0400, time announcement in GMT, ID "This is London," followed by World News and Correspondents Reports, faded out 0414 1/5. (Colyard, NJ)  
+logged here w/nice signal 2221 1/9 w/classical mx. Announcement at 2300 appeared to be in EE but not positive. (Eckman, PA)  
+very strong, mashing WSM. Slavic program was followed by BBC IS and time pips 0400 1/5, then EE "BBC World Service" ID and nx, first item about Israel's refusal to recognize the PLO. On 1/10 the strongest TA at 0550 w/local quality reception. Had discussion on the Angola situation. (Connelly, MA)  
+a regular. Noted w/play having man w/distinct Scotch accent 2213 1/27, reducing WSM to a het. Loud w/classical mx during excellent opening, again killing WSM/YVLH at 2243 on 1/29. (Connelly, MA)  
+fair w/man in EE w/nx 0005 2/7. (Connelly, MA)  
+peaking up so well o/WSM slop w/discussion of African affairs 0413 2/25. (Connelly, MA)  
+extremely potent, usually dominant o/WSM on 3/25. Time pips like CHU-7335 at 0232, woman in Slavic language 0250, peaking up to S9+40 (15 db o/WSM) w/Morse Code "V" IS 0336, still loud w/BBC nx and commentary in EE 0418. (Connelly, MA)  
+good w/program of poetry readings, steel guitar mx in background 0458 4/11. (Connelly, MA)

647 SAUDI ARABIA, Riyadh noted w/fair signal 0122-0205 9/26 w/nonstop Koran readings; frequency 647.0461. Much better 0123-0200 9/30 w/same program; 647.0486 that night. Latest EBU frequency for this one is 647.05. BBC very strong w/RR 0352-0400 9/25; then EE and alone. (Nelson, MA)

656 SPANISH SAHARA, El Aaiun, EAJ203 good w/Koran readings from 2240 to s/off 2300:35 following final announcements by man on 9/4. (Nelson, MA)

+strong 2233 10/18 w/man giving emotional diatribe in vernacular, perhaps about upcoming invasion by Morocco as many mentions of "Sahara" noted. ID by man in AA 2300 and programming continued in AA. Frequency measured as 655.9984. (Nelson, MA)  
+very good at s/off w/NA 0000 10/28 for another country. (Sherman, MN)  
+fair signal 11/2 0003-0010 w/man in SS; alone on channel. Had hoped to hear lots of activity from this one during the invasion period but cx were generally pretty poor during that time. Frequency measured as 655.9972. (Nelson, MA)  
? perhaps this was the station heard here 2249-2347 2/28 at various times. Fair signal w/WNBC splash. Definite AA chanting heard at 2345 but faded out 2347. (Eckman, PA)

656 ? USSR, Murmansk should be the source of fair carrier detected here 9/25 0445-0500 fadeout. Suspect Murmansk rather than Spanish Sahara because of fadeout time and because the latter isn't supposed to be on until 0600. Looped much farther north than other TAs, about 15°. Murmansk sunrise should be about 0440 which is close enough accounting for the low solar angle there at this time of year. This has gotten as far west as Denver before so maybe a chance for positive ID later in the season. (Rittenhouse, CA)

656 *GERMANY* ? UNID. Regarding Rittenhouse's tentative logging of Murmansk on 9/25, I think this was probably Potsdam and not Murmansk. The time of effective ionospheric dawn (when fade begins) for that path is 0157 on that day whereas reception continued until 0500. (Dawn on the ground at the transmitter site that day, defined as the time when the disc-center solar zenith angle was 90°, was 0348, not 0440 as stated.) It is important to realize that dawn-induced fade begins when ionization starts at a height of about 85 km and that this control point may be located quite some distance from the transmitter; on some paths at some seasons this may result in differences between ionospheric and ground dawn times of well over an hour. On the same day the time of EID for the Potsdam-Menlo Park, Calif., path was 0447 (ground dawn at Potsdam was 0455). The use of SR/SS maps at high latitudes, particularly during the equinoctial periods when the rate of change of declination angles is highest, can be quite misleading. If anyone w/good frequency measurement equipment hears this one, it'll be useful to know that Murmansk is currently on 655.998±2 hz, whereas Potsdam was recently measured by EBU on 655.9949±.5 hz. (Nelson, MA) (In layman's terms, this means that since the ionosphere is above the earth's surface, the sun's rays will reach it before they reach the station's transmitter. Hence the station can start fading out even though the listener, the transmitter, and all the land between them are still in complete darkness. ed)  
? +UNIDS, possible Spanish Sahara over Morocco, strong OC here and another station w/man talking way in background 2313 3/9. Dominant had down-sweeping TT of about 5 second duration every 20 to 30 seconds. (Connelly, MA)

665 PORTUGAL, Lisboa and Rohrdorf about even 0000-0020 8/26 and producing strong 2 hz SAH; it's rather unusual to have the German in this strong so early in the season. (Nelson, MA)  
+very good signal 0501 9/1 w/talk by female. Improved after WNBC s/off. (Eckman, PA)  
+first 9 days of September was a period of almost nightly reception of this station which has clearly become an ANer again. Audible as early as 0300 but fading out as the time approaches 0700. Very much a mx station favoring the orchestral form when audio rose above static level. Woman announcer noted a few times but never managed to catch its somewhat Westminster chimes on the hour as heard previous years. Noise level fairly high most nights but signal was steady in the 5-7 db range. Loop bearing distinctly north-east and hampered by WMAQ slop. Believe these first 9 days of September constitute the longest continuous period of TA reception I have ever noted, although it was an opening to Portugal only, including 1034, and to Dakar-764. (Martin, CO)  
+strong with US rock mx and announcements by man 0423-0446; SWF Rohrdorf audible w/soft classical mx u/Lisboa at times. (Nelson, MA)  
+way on top w/2 hz het 2318 and 1.8 hz het 0306 9/24. Frequency of Lisboa was 665.000 at 2330. (Schatz, FL)  
+the 1.8 hz het heard by RFS could have been Kaunas, which has a s/on at 0200. The Sept. EBU report shows their 100 kw came within 1.8 hz of

Lisboa. (Nelson, MA)

- +good 0102 9/27 w/talk be man. At 0300 the German was on top w/nx by a man mixing later w/Portugal again. Pronounced SAH noted on S-meter. Both stations were in w/very good signals. (Eckman, PA)
- +a surprise 0600 9/29 w/chimes and mx resembling an anthem, then talk and mx. Poor w/fading. (Moss, TX)
- +a regular pest in TA cx, several hz SAH 0410 10/13 had to be Rodrdorf or Vilnius. (Sherman, MN)
- +fair to good w/woman in PP 2316 12/21. (Connelly, MA)
- +fair to good w/female vocal; pronounced SAH of about 1.6 hz, most likely from SWF Rohrdorf 0418 1/5. (Connelly, MA)
- +PP talks, sounded political, some mx, very strong w/TT from WNBC 0620 1/26. (Colyard, NJ)
- +strong w/man in PP 0403 2/16. (Connelly, MA)
- +noted in the clear 0408 2/16 w/normal sideband interference from WMAQ and WNBC; substantially weakened by auroral-like cx. (Stanbury, ON)
- +good w/PP talk show, 2 male voices; one the talk-master, the other a phone caller at home, 2245 2/24. At fair level w/acoustic guitar mx 0428 2/25. (Connelly, MA)
- +heard w/excellent signal 2233 2/28 w/mx and PP talk. No trouble from WNBC at this time. (Eckman, PA)

665 <sup>t</sup> PORTUGAL / WEST GERMANY, OC w/1.7 hz SAH, fair strength in WNBC splash 0056 4/27. (Connelly, MA)

674 <sup>?</sup> FRANCE, Marseille and unid noted 9/23 to 24 w/a mutual het of 4.8 hz 2321 expended to 5.6 hz 0308. Other could be Libya. (Schatz, FL)  
+According to latest EBU data, the second station could have been either Benghazi or Tchernovtsy, Ukraine, which is on at the time w/100 kw. (Nelson, MA)

674 NETHERLANDS: Hilversum 3 not using 10 kw but 20 kw as from 1 May 1975, combining present transmitter and the 10 kw emergency transmitter at the same time. (MWN, April)

683 <sup>t</sup> SPAIN, Sevilla probably the TA here 0540 10/3, same time as 737 was in. (Sherman, MN)

- +measured as 683.000. Had a het of 5.6 hz 2323 10/24. (Schatz, FL)
- +SS announcer, American jazz concert, IS and ID, 2345 to 0030, very strong. ID and IS at 0013. (Colyard, NJ)
- +at fair level w/SS mx by choir 0608' 12/22. (Connelly, MA)
- +fair w/SS talk and mx 0610 1/7. (Colyard, NJ)
- +at good level w/man in SS, but badly thrashed by superpest WRKO 0553 1/10. (Connelly, MA)
- +good 1/24, 25, and 26. (Colyard, NJ)
- +good w/woman in SS // 737 2/16 at 0428. (Connelly, MA)
- +fair in WRKO splash w/man in SS interspersed w/mx 0425 2/25. (Connelly, MA)
- +good signal at 0216 3/1 w/SS talk and mx. Seemed to be a fast SAH on them as noted on S-meter. Yugoslavia is 400 kw at the moment but not scheduled on until 0300. SAH gone by 0230 recheck. (Eckman, PA) (Yugoslavia might have been testing the new 2000 kw transmitter. ed)

690 BANGLADESH: The new 1000 kw transmitter in Dacca is soon expected to begin test transmissions. Dacca A is now on 830 khz replacing 690 in all of its three transmissions. (MWN)  
+The new 1000 kw at Dacca is now in operation. Noted in Calcutta from 0400 to past 1600. (MWN)

692 GREAT BRITAIN, Moorside Edge, has been readable several times this season, especially 0555 10/3 w/voice. (Foxworth, NY)

692 <sup>?</sup> UNID, BBC likely per 647 strength, carrier here but too much CBF for audio 2318 12/21. (Connelly, MA)

701 ANDORRA, La Vieja, strong 2333-2344 w/popular mx and woman announcer in FF; Sabaa-Aioun 2 a bit weaker at same time but occasionally dominating. Two other carriers visible but no audio; still no sign of the new super-powered Radio Monte Carlo station reportedly running 1200 kw on the channel. According to a recent note from Ericson in Sweden, this one is sq directional that it hasn't been heard there yet either. (Nelson, MA)

701

MONACO, Monte Carlo, local 701 khz is now 10 kw. (MWN)

701

MOROCCO, Sebba-Aiou very strong in AA 2359-0005 8/19, totally dominating the channel although 3 other carriers also present. (Nelson, MA)  
+at good level against YVMH/HJCX/WLW mess w/woman in AA 0045 2/7. (Connelly, MA)  
+poor to fair w/AA chanting in WLW slop 0554 1/10. (Connelly, MA)  
+present mostly as het, audio (man in AA) surfaced 2305 3/9. (Connelly, MA)

701

UNID, perhaps Morocco at 2243 10/19 w/strong het and some mx coming through. Didn't sound like AA mx but signal wasn't too good anyway. (Eckman, PA)  
+SS program here 0713 12/21 during TA opening. (Connelly, MA)

702

SAUDI ARABIA: New is Muzia with 50 kw. (MWN)

710

LIBERIA, Monrovia, ELWA heard 8/19 2131 w/religious program in EE, poor w/noise. (Baker, SA)

719

PORTUGAL, Norte I strong w/man in PP and program of soft mx 2355-0000 8/24; only a faint trace of Tunisia visible this date. Tunisia dominant in AA 2341-2355 8/25; the 33.1 hz SAH between these two stations is quite distinctive. (Nelson, MA)  
+presumed to be the TA w/strong OC 0423-0426; this ID supported by both frequency signature analysis and direction finding. Alone on the channel 9/7. (Nelson, MA)  
+heard several mornings in late September at 0600 s/on w/deep resonant gongs, really nice signal equal level w/WGN 9/19. (Foxworth, NY)  
+assumed to be the one here many evenings at SSS, notably 9/29 w/strong het and talk or European type mx. Usually stronger than 720 domestics around 2300. (Nelson, MA)  
+outstanding and alone on channel 2354-0000 11/2 on measured 718.9881. Man speaking in PP, 4 long and one short pips on the hour. No sign of Tunis. (Nelson, MA)  
+very strong, one of the best TAs at LSS w/man in PP doing sports broadcast 2145 12/12. (Connelly, MA)  
+very strong w/Segovia-type classical guitar mx 2218 1/3. (Connelly, MA)  
+strong w/time tones, then IS consisting of mediaeval-type mx, then man in PP, 2200 1/19. Mixing w/Tunisia 2237 1/24. (Connelly, MA)  
+consistently among the strongest TAs at LSS. Atop WGN w/mighty signal and raucous het w/instrumental jazz-rock mx 2210 1/27. Loud het present on several other occasions while driving home from work during local sunset period. (Connelly, MA)  
+fair, alone on channel w/man in PP 2217 2/15. (Connelly, MA)  
+was usually atop at potent local-like strength w/PP phone-in talkshow similar to the one noted on 665; AA chanting noticeable under. Tunisia w/chanting dominated briefly during a fade on Norte 2247 2/24. (Connelly, MA)  
+very strong w/PP mx 2247 2/28. Considerably stronger than 720 domestics at this time. Very good night for Iberians. (Eckman, PA)  
+at good carrier level, audio hard to bring up, bits of PP talk extracted 0053 4/27. (Connelly, MA)

737

MOZAMBIQUE, Maputo, Radio Mozambique w/PP announcements by a man and woman, also mx, poor to fair w/noise 3/6 at 1100. (Baker, SA)  
+has 50 kw listed for this station. (Baker, SA)

737

SPAIN, Barcelona, RNE a powerhouse at 0045 tune-in w/odd Moorish-style mx that I mistook for AA at first; those looking for Upper Volta should be on the alert for this type of programming which may cause confusion. Full RNE ID and pips 0100, all on 9/25. (Nelson, MA)  
+always the best TA here. 0440-0447, man, mx, SS vocals, fades 10/21. (Abraham, MI)  
+had to be the TA here w/good audio 0245 10/28 despite fantastic het on CBL. Good carriers on several Spanish frequencies at same time though no programming. (Sherman, MN)  
+religious service for Franco, mass; also on 683 and 854 all evening 11/21. (Colyard, NJ)  
+fair to good w/man in SS and weak modulation 0630 12/21. Fair level w/man in SS 2321 12/21. Repeated monitoring of this channel have not resulted in any definite logging of the new 600 kw Moroccan supposedly here, only Israel SAH, beside Spain. (Connelly, MA)

+present as het, audio occasionally discernable against CBNM/CBL 2246 1/29 and 2219 1/27. (Connelly, MA)  
+good, woman in SS 0427 2/16. (Connelly, MA)  
+fair to good w/SS popular vocals, short announcements between records by woman in SS, fast paced show, 0050 4/27. (Connelly, MA)

737 **UPPER VOLTA**, Ouagadougou strong 2350 tune-in w/native mx much like that heard on Dakar w/lots of Balafons; final announcements by man 2355 and carrier cut 2359 leaving Barcelona alone on the channel. The 0.8 to 1.2 hz SAH between these two stations is a good indicator for the presence of the African. (Nelson, MA) (Also see 746. ed)

737 **UNID AFRICAN**. A very intriguing African being noted here. First observed 11/5 at 2146 as a 24 hz SAH against Barcelona, which was fair to poor at the time. No audio from the second station which s/off'ed or faded around 2200. Next noted alone on channel fading in 2140 11/8; frequency measured as 736.9759. Signal rose steadily and peaked around 2205 w/man speaking w/low pitched voice in unknown language; noise level then began to rise and carrier lost to noise by 2210. Noted also fade-in 2137 11/11 and 2155 11/12. Never noted past about 2200 and consistently noted when Barcelona knocked out by post-auroral absorption. The mean DF bearing for 49 measurements taken over 4 nights is  $100.2^{\circ} \pm 1.0^{\circ}$ . I strongly suspect this is Lourenço Marques, whose bearing is  $101.3^{\circ}$  and who at least used to s/off the B program on this channel at 2225. Will keep trying for a good SS //. If this does turn out to be Mozambique it will be the first time I have ever noted an East African at sunset; all previous receptions of Mozambique, Tanzania, etc., have been later in the evening around their s/on times. (Nelson, MA)

746 **NETHERLANDS**, Lopik I strong 0448 w/woman reading list of some sort in DD, man announcer 0458 9/25. (Nelson, MA)  
+clear and strong w/IS 0556 10/3 and up quite high 0603 w/man in DD, very clear and no selectivity needed, also good 10/6. (Foxworth, NY)

746 **SYRIA**, Aleppo-Sarakeb unusually strong w/Koran for Ramadan 0038-0103 9/25. (Nelson, MA)

746 **UPPER VOLTA**, Ougadougou, strong carrier noted 10/1 after 2330 Lopik s/off. Strong TT noted here 10/2 2310 after Lopik off; frequency measured 746.0179; west or central African mx up 2350, off 0002. Heard nightly thereafter w/African programming after Lopik s/off w/chimes and NA at 2303. Quite strong at times. S/off format consists of male announcer, balafon IS and NA w/carrier cut about 2359. Mean of 40 DF bearings o/four nights is  $92.3^{\circ}$ . On 10/6 Bailey finally got a good SW//: Ougadougou. It would seem that interference from Barcelona forced a move from 737. A very easy catch now between the time Lopik s/off 2305 and Ougadougou goes off 2358. (Nelson, MA)

+Nelson's reference to Upper Volta may be the answer to a puzzle which has been camping on my doorstep since late Sept. The question has been how come The Netherlands is the only stn in Northern Europe which has been able to deliver a carrier into Denver during nights of TA activity. I have found the carrier here maybe 5 to 6 times, assumed it was The Netherlands, and had never studied the actual bearing inasmuch as it arrived in the usual north-east direction from which I get Europe. I did not know Upper Volta was here but on 10/22 at 0510 I went to work on it and found it looped virtually east-west. It remained too weak to deliver any IDable audio and by 0620 was gone entirely. It is easy not to notice the exact direction a signal is arriving from; in this case looping north-east reduces WSB splash and I was assuming The Netherlands from past experience. If this has been Upper Volta, I have been able to hear it when Dakar cannot be heard. (Martin, CO)

+a pleasant surprise 0550 10/27, S-9 w/high modulation. Programming seemed to be about 2 sentences, then several drum beats and repeated. DF about the same as Dakar leaving no doubt about it. Suspected this would become a pest but no sign of it since despite Dakar signals up to S-9+20. Was excellent African morning. (Sherman, MN)

+The move to 746 is apparently permanent; noted nightly w/fair to good signals to 0000 s/off as in last report. Anyone who noted unusually strong OCs here for The Netherlands during the past month may have had this one instead. (Nelson, MA)

+fair signal, Dakar-type native mx 2339 11/2; frequency measured as

- 746.0132 w/slight drift. (Nelson, MA)  
 +African mx, FF? announcer, good level but much interference from WSB 2335 11/30. (Colyard, NJ)  
 +seemed to be the one here w/weird mx 2224 1/10. Good level. 764 was also in well at this time if this is any indication of West African cx. (Eckman, PA)  
 +poor to fair w/talk, IS w/native mx 0000 2/7. (Connelly, MA)  
 +believed to be the one w/unusual mx 2233 2/28. Fair signal. Dakar strong at this time. (Eckman, PA)  
 +peaked up at fair level 2349 and 2352 3/2 w/AA-style mx (female vocal), then man in FF. Abruptly disappeared at 0000. (Connelly, MA)
- 746 ? UNID. Strong carrier w/weak modulation. Slow female vocal, possibly AA, 0623 12/23. (Connelly, MA) (Maybe Upper Volta. ed.)
- 755 GERMANY-WEST, Braunschweig alone on the channel 0105-0119, soft mx w/GG announcements 9/25. (Nelson, MA)
- 755 MALAWI, Blantyre, MBC hrd here 8/19 2139 w/mx program, fair. (Baker, SA)
- 755 PORTUGAL, Lisboa 2 and West Germany pretty much even in strength and killing one another 2316-2326. Lisboa w/opera and man in GG 9/7. (Nelson, MA)  
 +very strong w/piano chord IS and PP NA at s/off 0000 9/29. (Nelson, MA)
- 755 ? UNID OC w/2.4 hz SAH 2222 1/3. (Connelly, PA)  
 +Romania possible, or Portugal if they are still on. Man was heard in a Romance language 0401 3/25. There have been no recent reports of Portugal-755 lately and I have noted nothing here at LSS when 665/719/782 are bombing in. (Connelly, MA)
- 764 ● SENEGAL, Dakar frequency control has suddenly gone haywire; while formerly within a couple of hz or so of nominal, they are now drifting around about 0.4 khz on the high side of the channel. Extremely strong at s/on 0558 8/18 w/IS. News on the hour by man and into Koran 0606. (Nelson, MA)  
 +noted w/harp-like IS 0555 9/1. Talk at 0600, possibly in FF, followed by native chanting. Excellent signal. (Eckman, PA)  
 +has to be the source of a TA carrier looping perfectly 0555-0620 w/long fades and fair strength. 9/3. Couldn't pull audio this time but since it's only early Sept. there should be more chances. (Rittenhouse, CA)  
 +over the years, Dakar has been heard here every month of the year except July and this year I began getting preliminary indications that it was trying to arrive after 0600 by mid-August. DXers will understand what I mean; while I didn't get the station during August I could nevertheless detect evidence on occasion that a new signal was having an effect here. A Dakar carrier made its first definite appearance 9/1 about 0557 right after my discovery of the Lisboa carrier on 655. No audio ever appeared and carrier was gone by 0630. On 9/2 the Dakar carrier was putting a good het about 0620 on the 765 Latin American carrier often heard here. Again, no audio. One report months ago said Dakar was directional to the east but I wonder if it still is. This station does not always coincide w/appearance of Portugal-665, noted 9/8 0605 but could not be found at same time 9/9 nor 9/6. Believe it surfaced only three nights in the first 6 days of Sept. but I must admit that while I looked for it nightly I failed to keep any written notes on when hrd. Must admit that too many other stns interest me a lot more. (Martin, CO)  
 +making best appearance yet 0555-0619 9/24. Got harp type mx to 0559 and some FF talk. Got weaker after 0600 and noise level went up, obscuring most audio, though some chanting may have gotten through 0611. (Rittenhouse, CA)  
 +man speaking still in at 0640 most nights early Oct. At this hour only they and Morocco-935 are still in w/any signal at all. (Foxworth, NY)  
 +is back on frequency. Noted w/potent signal 10/16 2237 on 763.9926. Good audio from Sottens underneath. (Nelson, MA)  
 +regular nightly pest w/IS through WJR slop 0555, regardless of cx, up to S-9+20. (Sherman, MN)  
 +mixtures of audios from Dakar and Switzerland 2200-2210 11/4. Dakar generally on top. Sottens measured 763.9998 and Dakar 30-35 hz higher and drifting rapidly. Dakar measured 764.2865 on 11/2 so still has frequency problems. (Nelson, MA)

+w/strong carrier, weak audio. Man in AA w/sing-song talking, het of about 0.2 hz on low side 2215 12/12. (Connelly, MA)

+at potent level, woman talking, 0706 12/21. Noted again 0559-0602 w/IS, s/on mx, then woman in FF w/ID; in like a ton of bricks. (Connelly, MA)

+some really puzzling reception here 12/21, 22, 26. Cx seem to be unfavorable for TPs and I would expect TA reception to be similarly depressed, yet I'm certain Dakar was the source of carrier noted here. The frequency was definitely 764 so not YSKL. The signals looped very close to Dakar's bearing of 69.49° when checked on a 4 foot (122 cm) loop and Space Magnet, so obviously not El Salvador at 120.06° or any other Latin American. The carrier was noted weakly 0550 12/21, better 0700 12/22, and quite strong w/possible audio at peaks 0658-0740 fade-out 12/26. The last reception is the most surprising since the A-index was about 15 at the time. The Dakar-Menlo Park, Calif., path only reaches 41.93° North Latitude at a maximum so I guess it shouldn't be as greatly affected by geomagnetic activity as TPs or more northerly TAs but in the past it has seemed that this only made it west u/very quiet cx. I guess this is only another indication of how strange a season this is. (Rittenhouse, CA)

+potent w/IS and s/on 0557 1/10. (Connelly, MA)

+loud w/a musical mixed bag: first, AA mx 2233, the "Wonderful World, Beautiful People" by Jimmy Cliff at 2243 1/24. (Connelly, MA)

+was in w/fair audio 1/31 0600-0640 period. (Martin, CO)

+very strong, effectively pushing through WABC slop w/FF talk and native mx on an instrument sounding like a hybrid of xylophone, Trinidad steel drums and ukelele 2225 2/3. (Connelly, MA)

+best reception of this one in a long time came 2/5 0610 tune-in, muezzin as usual. At that time, WJR nest door was so weak it seemed to be having auroral problems. Good signal strength from Dakar usually coincides w/a strong WJR signal, but not this time. (Martin, CO)

+at whopper level w/AA mx using mandolin-like stringed instrument, followed by man in AA, 0702 2/15. Strong w/man in FF 2220 2/15. (Connelly, MA)

+strong w/man in AA dialect 2252 2/24. (Connelly, MA)

+strong w/FF talk 2230+ 2/28. Noted some Latin American mx later on this one. Don't be fooled by this type of mx on West Africans; I've heard it on SW too. (Eckman, PA)

+in clear at 0558 s/on 3/1 w/WABC off. WJR splash bothersome, though. (Foxworth, NY)

+the best TA 3/9 in auroral cx. Man in AA very strong 2254. (Connelly, MA)

+at ripping level, killing usually-weaker WABC on car radio from Belmont to Sudbury, MA 2230-2300 3/25. WABC also badly junked by Spain-773 het. Dakar had man in AA (preacher?) who would say a sentence which was then repeated by a group of people. Chanting was sometimes interspersed. The signal was really outrageous, like a local, and w/a good loop it should have been heard in metro-New York City. High band cx good at same time, 1394 and 1466 particularly loud. (Connelly, MA)

+the only really strong TA during short skip dominated cx; banjo-like mx, then AA talk 2355 4/27. (Connelly, MA)

764 SWITZERLAND, Sottens fair to good w/man and woman in FF, light mx. Het from Senegal present 2212 1/19. (Connelly, MA)

764.3 SENEGAL, Dakar still off frequency: 764.2842 on 9/20 w/Latin American mx and FF announcements. Noted as high as 764.4344 and as low as 764.2846 recently. (Nelson, MA)

+now on exactly 764.284 as of 9/23, measured at 0557 and 2326. (Schatz, FL)

+Dakar making it again 9/23 0606-0705. Though mostly a carrier I could distinguish chanting at peaks o/unusually pesty KFMB slop. Until 0640 carrier faded up and down but was always detectable in some way. Starting at 0640 would go into deep fades obscuring it totally, each time longer and coming back a little weaker. The last strong fade-up w/hints of audio occurred at 0648. It faded for 5 minutes 0656 coming back for a weak 2 minute stand 0701-0703 and then fading altogether. (Rittenhouse, CA)

+faint traces of a het here after 0600 9/24 but little else. (Portzer, WA)

+peaking at 0619 10/11. OC first noted 0552. Played some very wierd mx. Subject to some, but very little, KFMB splatter. Gone by 0628. Their frequency is 764.33. Poor. (Szot, CA)

773 EGYPT, Abbis good w/Koran 2322 about even w/Spain. 0.6 hz SAH 9/20.

(Nelson, MA)

773

MOROCCO. The new WRTH lists a new 600 kw station supposed to be on the air at Sidi-Bonnour. I have been checking this channel daily for some weeks and haven't noted a trace of this one so I don't think it's on the air yet. (Nelson, MA)

773

SPAIN, San Sebastian, RNE strong and alone on channel 0447 8/20 w/man speaking in SS. (Nelson, MA)  
+apparently here 0430 9/1 w/SS mx. Seemed // 683. Fair to good w/WABC splatter troublesome. (Eckman, PA)  
+on top in SS 2328 9/23. 0.7 hz het between them and Sweden. Sweden<sup>r</sup> guessed per LSCA bearing. (Schatz, FL)  
+powerful and alone on channel 11/2 2328-2330; bouncy mx and man announcer in SS. (Nelson, MA)  
+very dominant here w/man in SS, then IS and EE rock. New Moroccan didn't seem to be on at the time, 0005 12/13. (Connelly, MA)  
+man in what sounded like fast SS, poor due to brutal WABC slop 0627 12/23. This one better in Sudbury where WABC is not as serious a pest. (Connelly, MA)  
+good w/apparent nx in SS 2248 1/19. Again noted, second strongest TA (818 better) on 1/23 at 0500 w/man in SS. (Connelly, MA)  
+actually stronger than WABC at sunset 2143 2/3 w/man and woman in SS. (Connelly, MA)

782

GERMANY-EAST, Burg, man and woman in GG dominant here at good level with 1 hz SAH 2325 12/21. (Connelly, MA)

782

PORTUGAL, Porto Miramar, CSB9 measured on 781.984 at 0500 9/24 making this not the Unid Latin American claimed by Nelson as the LSCA never lies. (Schatz, FL)  
+w/nx in PP, man and woman, 0705 12/21. (Connelly, MA)  
+good w/male vocal 2145 1/19. Noted w/FF female vocal of "Frere Jacques" 0518 1/24. (Connelly, MA)  
? +UNID, Portugal is supposed to be off but a strong CSB9 type signal was noted here during a low-band opening which produced strong signals from Iberia and North Africa, but mediocre reception from higher latitudes. This would make DDR unlikely. Mx was US country and western: Ray Price or Charlie Pride 2253 2/24. (Connelly, MA) (Portugal apparently still on. ed)  
+best signal ever on this one for me 2300 2/28. Tuned in at 2259 while they were running long tones at about 5 second intervals. One short pip 2300 followed by ID and short tone. (Eckman, PA)  
+is back (if it was ever off in the first place). Noted at potent level 0225 w/"Melancholy Man" and "Nights in White Satin" by the Moody Blues. Slight fading at 0230 when man in PP was heard on 3/4. (Connelly, MA)  
+at fair level w/soft female vocal 0540 3/19. (Connelly, MA)

782

SOUTH AFRICA, Bloemfontein, Radio Five w/popular mx 3/6 at 1104. Also w/commercials and announcements in Afrikaans and EE coming in w/a fair signal w/noise over the Drakensberg range. Not bad considering the distance, possibly 300 mi. (480 km) w/5 kw. (Baker, SA) (This at about 1 pm local time. ed)

782

SYRIA, Tartus. Portugal good 0208 8/20 w/man in PP; second station present at times w/26 hz SAH although no audio at this time. Seemed to be a tone test at 0223, positive AA mx noted 0237 and 0255 mixed in w/Portugal. From frequency measurements in comparison w/latest EBU data and direction finding the Arab was Tartus, Syria. Batra, Egypt on 818 audible at the same time. (Nelson, MA)

791

FRANCE, Limoges very powerful in FF 0510 9/23. Overpowering domestics on 790. Second TA present at this time, SAH of 1.2 hz but no audio. From frequency signature comparison w/EBU data this was almost certainly VOA (reece). (Nelson, MA)

791

? UNID station heard s/on 0459 9/22, fair copy through Limoges; this on a good TA morning w/many signals coming in. (Foxworth, NY)

809

GREAT BRITAIN, Crowborough, BBC and EAJ5, Sevilla about even and quite strong 2318 9/25 with a 6.7 hz SAH. EAJ11 has boosted its power to 7 kw according to EBU, by the way. (Nelson, MA)  
+signal significantly better than 810 at 0544 10/6 w/WGY silent. Man thanking reverend for sermon, nice and clear but fading heavy. After

- WGY back on for ET het still there. (Foxworth, NY)  
 +man in EE surfaced briefly o/bad WGY slop; talk was about hospitals,  
 2328 12/21. Again noted w/EE talk by man 0626 12/22. (Connelly, MA)
- 809 SPAIN, Sevilla, EAJ5 likely, man in SS, then SS mx, WGY phased out  
 0025 2/7. (Connelly, MA)
- 809 <sup>7</sup> UNID, Yugoslavia or Spain w/semi-operatic vocal, not EE, loud here  
 0520 12/14. Faded to just a het on HJCY 0540. WGY off. (Connelly, MA)
- 817.4 <sup>t</sup> EGYPT, Batra al Mansurah noted exactly on 817.373 2338 9/23. No ID  
 here but this one went before the 818 Arab, so not Morocco. (Schatz, FL)
- 818 ANDORRA, La Vieja, Sud Radio 0520 9/21 w/rock and roll oldies, played  
 original rock and roll "Hey Paula," no WBAP/WCCO problems with this  
 kind of signal. (Sherman, MN)  
 +very good here 2307 9/24 w/FF popular mx and FF announcer. No sign of  
 Morocco this time. (Eckman, PA)  
 +2254 and 2312-2345 9/28, FF vocals, fast FF rock, mostly fast FF vocals  
 w/a beat; fading and hets, but at 2317 had to turn RF gain down, fair  
 to good. 2345 splatter from WAIT-820 took over. (Curtis, VT)  
 +w/potent signal totally o/Morocco/Egypt/HJED/WBAP. Man in FF read list  
 of job openings, some in auto industry; one required 5 years exper-  
 ience. At 0515 12/14. (Connelly, MA)  
 +loud w/operatic male FF vocal, then man and woman alternating, over  
 jumble of stations 0627 12/22. (Connelly, MA)  
 +very strong o/Morocco w/Dixieland jazz, then FF talk by man 0428 3/23.  
 Low growl from Morocco; Morocco rose atop w/chanting 0432. Andorra  
 generally more dominant. (Connelly, MA)  
 +atop Morocco w/potent signal, female vocal in FF, then Muzak instru-  
 mental; strongest TA at 0430 4/26. (Connelly, MA)
- 818 EGYPT, Batra is now so far off frequency that they can often be separa-  
 ted from Morocco. Batra 817.6747 w/Koran 0130, Morocco 818.0373 with  
 speech in AA 0130 9/25. (Nelson, MA)  
 +the two AAers generating ear-splitting het amidst wailing mx 2225 1/3.  
 (Connelly, MA)
- 818 MOROCCO, Rabat I very strong 0130-0150 7/4; frequency measured as  
 818.0378 ±2 Hz. Those looking for Zambia will have no difficulty dis-  
 tinguishing it from Rabat; latest EBU value for Zambia is 817.9481.  
 (Nelson, MA)  
 +fair w/AA mx 0028 9/2. TVI and het made readability poor as is usual  
 on this frequency. (Eckman, PA)  
 +strong and alone w/Koran 0237-0400 9/6; not a trace of presumed  
 Zambia since 8/20. Andorra noted s/off w/fanfare 2357 9/7; carrier  
 cut 2358 leaving Rabat alone on channel w/Koran. (Nelson, MA)  
 +very strong w/man whipping up crowd for march to Spanish Sahara 10/25  
 2254 in AA. Sudden fade brought Andorra on top w/woman in FF between  
 popular records. (Nelson, MA)  
 +dominant w/belly-dance mx way o/distorted second station audio (from  
 being slightly off frequency) 0540 12/14. (Connelly, MA)  
 +w/AA wailing dominating channel 0641 12/21. (Connelly, MA)  
 +potent, the strongest TA noted in a low-band, southerly path opening.  
 Man in a clipped variety of AA, similar to the Dakar dialect 0520 1/23.  
 Noted again, alone on frequency, loud w/chanting and flute and violin  
 accompaniment 2243 1/24. (Connelly, MA)  
 +AA mx 2345 1/24 fair w/strong het. (Colyard, NJ)  
 +ultraloud w/AA mx (slow male vocal) style somewhat akin to that of  
 some SS and Greek mx; HJED-820 merely a het 0034 1/28. (Connelly, MA)  
 +w/fast exciting AA mx at cruncher level 0030 2/7. (Connelly, MA)  
 +fair/ barely atop a jumble of other stations w/male AA vocal and flute  
 accompaniment 2254 2/24. Heavy unid OC here, likely Andorra 0435 2/25.  
 (Connelly, MA)  
 +strong w/AA chanting 2234 2/28. No sign of Andorra. (Eckman, PA)  
 +far and away the strongest TA on 3/4. Even good on Realistic TRF  
 during otherwise mediocre cx. This thing must be running a megawatt  
 from a coastal salt marsh! Noted periodically w/various types of  
 wailing, some a-capella, others w/instrumental backgrounds of classical  
 mx or progressive rock complexity. Listened to from 0130 to past 0230  
 on 3/4. (Connelly, MA)  
 +fair to good w/male AA chanting, periodic bursts of applause 0140 3/25.

(Connelly, MA)

+good, best TA at 0345 4/20. At excellent level, totally dominant with a-capella male AA chanting w/long pauses 0506 4/27. (Connelly, MA)

- 818 ● ZAMBIA/EGYPT/ANDORRA/MOROCCO. A very messy channel at times. Rabat 0004 strong and alone on channel in AA 8/23, frequency 818.0375. Andorra very strong and alone on channel w/TT 0448 8/20; anthem 0500 and man s/cn in FF, frequency 817.9999. On 8/20 a real jumble noted at tune-in 0300 consisting of Batra on 818.4395 and Rabat on 818.0333 both in AA, and a third station tentatively logged as Lusaka on 817.948 w/a man speaking in a low pitched voice in what appeared to be EE, noted best 0310-0320. The latter station faded out about 0326 leaving Batra and Rabat to fight it out alone. Noted again w/better signals from 0311 on 8/26 and alone on channel; same programming as noted previously. Frequency measured as 817.9470 this night and DF bearing was  $94.7^{\circ} \pm 3.1^{\circ}$ . Great circle bearing to Lusaka is  $95.6^{\circ}$  calculated. EBU measured Lusaka on 817.9481 in July. (Nelson, MA)
- +Lusaka, ZBS heard 3/6 at 2222 w/church nx in EE, as usual a good signal w/noise. (Baker, SA)
- 818 ? UNID, for the fourth time u/possible TA cx I found a carrier between Local KGO and WBAP 9/3 0558. (Rittenhouse, CA)
- ? +still being annoyed by signal here u/TA cx. 9/23 0610 w/764 in I found the usual fair carrier looping TA u/KGO/WBAP slop. There were no traces after 0630 which would tend to eliminate TVI as a source and it seems too clean for that. I've only noted this u/TA cx though I don't really look for it other times. Could be Latin America but I'm pretty sure the loop isn't skewed. West coasters out of KGO's range should give this a shot this fall. (Rittenhouse, CA)
- ? +AA 2228-2310 9/28 poor to fair at times, fading. 2254 vocal in FF moved in, mostly AA chanting. 2300 sounded like nx in AA, 2312 FF takes over. Suspect Morocco. (Curtis, VT)
- +Rabat strong w/usual program 11/17 0236; frequency measured 818.0425. Fairly strong second carrier came on 0254 on measured 817.9441. Quite a bit of audio at times but male announcer had low pitched voice with rather shallow modulation; sounded like EE but no words clearly distinguishable. Dropped into noise for good 0326. Direction finding, frequency signature (vis-a-vis EBU), shedule, and dawn-fade all consistent w/250 kw Lusaka, Zambia. Still can't get a good enough SW // for positive ID, though. This one seems to be there almost every night that local neighborhood TVI is relatively quiet. (Nelson, MA)
- ? +12/9 0050 AA nx w/long slow fade, fair to poor w/hets, continued without break through 0100 but lost at 0102. (Curtis, VT) (Probably Morocco. ed)
- 827 ● LIBYA, perhaps this is the one w/very good signal 2235 2/28 w/AA chanting. Apparently not // 818 which probably excludes the Moroccan and also it's supposedly off the air. (Eckman, PA)
- +woman here sounded more like FF than AA 0240 3/4. March played 0241, then more talk. Had strong carrier, but it was severely hacked up by noise from local storm. (Connelly, MA)
- 827 ● MOROCCO, Oujda very strong w/man in AA 2300-2310 11/2 w/mentions of "El Afoun." Frequency measured as 827.0079. (Nelson, MA)
- +FF popular mx, fair level 2255 12/13. (Colyard, NJ)
- +this appears to be the one logged here w/very good signal 2213-2230 1/9. Program was in AA w/AA mx for the most part. Interesting that Andorra appeared to be dominant on 818 rather than Rabat at this time. (Eckman, PA)
- 827 SPAIN, Barcelona, EAJ1 strong in SS 0413 9/19 and alone on channel. (Nelson, MA)
- +in w/man in SS at 2244 10/19. Still here at 2343 at good level. (Eckman, PA)
- 827 ? UNID, very potent OC here on several occasions, such as 0644 12/21. Something else way under. (Connelly, MA)
- ? +AA program at fair level in low-band opening 0445 1/19. Morocco has supposedly ceased operations here; furthermore, programming did not seem to be // 813 or 935. Nelson suspects Libya per DF. An unid TT'er here w/sweeping audio tones atop Bulgarian EE program and another station; SAH's of approximately 0.8 and 6.4 hz present 2338 1/19. A potent OC noted here in good Iberian/North African opening 0515

1/23. (Connelly, MA)

+Bulgaria or Libya possible, man and woman in FF at fair strength in and out of considerable HIJB sloop 0433 4/28. (Connelly, MA)

827 ? UNID, 2 TAs w/het of 5 hz measured 827.002 and 827.007 w/latter dominant. (Schatz, FL)

836 CANARY ISLANDS, Las Palmas, EAK35. This frequency has become a TA hot spot in recent weeks w/carriers audible soon after Belize leaves the air, about 0500 most nights. 10/22 a carrier faded before 0600 stayed w/me until it faded for good about 0725. Poor audio fragments surfaced every 5 to 6 minutes during that time. Next night, 2 carriers were audible around 0620, mutual interference between them. One of the 2 disappeared after 10 to 15 minutes and the remaining one stayed until about 0705. Not a good spot for DFing for me as I have to listen w/KOA nulled which aims the loop north-east. (Martin, CO)

+One TA here takes to the air at 0600, taped 2 consecutive mornings, 10/24 and 10/25. On 10/24, a 3-note IS began at 0558:30 and was repeated many times up to 0600:25 when a female announcer began but she was unreadable, then some mx and a male voice heard 0602:45 as the signal faded out. 10/25 station was in a fade across the hour but at 0603 signal comes up and you have the male and female alternating as in newscast for 3 minutes, then fades again. Second days taping takes up practically at the place where the first day's taping left off and I have no doubt it was the same station both days. I thought there was a SS flavor in the gal's voice on the second day but can't be certain. Wonder if this isn't the farthest west that a TA on this frequency has been reported. (Martin, CO)

+Regarding Martin's TAs: I've listened to his tapes carefully and the cut made 10/25 is most definitely SS; after a bit of filtering I found a mention of "...Las Palmas, Islas Canarias..." by the woman although it appeared to be in the context of nx rather than an ID. The latest EBU data gives the following choices on this channel: (a) EFE17, Valencia, 5 kw, which is an REM outlet and scheduled s/on is 0700; (b) RNE Huelva, 5 kw, which carries the RNE Radio Peninsular program and is scheduled s/on 0600; and (c) EAK35, Las Palmas, 10 kw, scheduled s/on 0600 (they are not on 827). I don't recognize the IS as being for RNE but a check of the log shows I haven't noted a Radio Peninsular outlet at s/on for about a year and RNE changes IS frequently. One can get some useful information from the fade times, however. For the 3 possible stations, we have calculated the effective ionospheric dawn for the paths to Denver on each of the nights of reception:

	10/22	10/23	10/24	10/25
Huelva	0645	0646	0647	0648
Valencia	0621	0622	0623	0625
Las Palmas	0712	0712	0713	0714

On these paths the dawn fade rate following the time of EID is about 1.4 db/minute which suggests that Martin's reception until 0725 on 10/22 was almost certainly Las Palmas. On the 23rd the station f/out 0635 was probably Huelva and the one at 0705 probably Las Palmas. Arctic DXers noted excellent reception of US stations during this period, by the way. (Nelson, MA)

+Martin's unid has been definitely IDed as EAK35, Las Palmas. Tune-in 0530 yielded a good ID from RNE Huelva on measured 836.0001; alone on the channel at this time. Strong second carrier showing as a 22.6 hz SAH came on 0549:50 and DF shifted from  $71^{\circ} \pm 3^{\circ}$  (Huelva) to  $88^{\circ} \pm 4^{\circ}$  (Las Palmas). At 0553 the latter station began to repeat their IS of 2 tone chimes. The first 2 notes are relatively soft, the following 6 in groups of 3 are much more audible; after 5 or 6 repeats of the IS the ID as "Radio Popular Las Palmas" is given. The IS is identical to that on the tape sent by Martin, although he didn't have enough signal-to-noise ratio to realize that the 3-note sequence was part of an 8-note sequence. Congratulations to Martin on what I believe to be the most westward logging of the Canaries ever. (Nelson, MA)

+carrier w/snatches of audio here again 0600-0615 1/31. The purported Mid-Winter Anomaly doesn't operate on the Canaries or Dakar. (Martin, CO)

836 FRANCE, Nancy I w/a 1.7 hz het 2341 9/23. Lebanon likely per previous logging and disappearance of het later that evening. (Schatz, FL)

+Re Schatz's tentative ID of Beirut as responsible for the 1.7 hz SAH:

according to EBU data, this SAH could have come from Beirut, the 150 kw Ukrain station at Kharkov, Huelva, or Ponte Delgada. I noted Beirut 4 hz high several nights after Schatz's logging but they are a bad drifter and cannot be assumed to hold within 20 hz from night to night. (Nelson, MA)

+light mx, FF announcements, fair 2305 12/13. Many TA signals heard this evening but too tired from overtime at the salt mine. (Colyard, NJ)

836

LEBANON, Beirut-Amchitt made its first appearance of the season 0137-0150 9/25; AA mx at times, although on unusually late did not seem to be running normal Ramadan fare. (Nelson, MA) In that part of the world they could be on late for anything: commando raid or whatever.

836

MOZAMBIQUE, Vila Pery, Radio Mozambique Emisora Regional de Vila Pery was heard here 8/19 at 2052 w/mixed variety mx. WRTH lists s/off as 2030. S/off noted here at 2100 w/signal poor to excellent. (Baker, SA)

836

UNID, classical mx w/frequent OC-like periods atop lively SS mx 0700 12/21. (Connelly, MA)

+Canary Islands possible, guitar mx followed by SS talk at poor level 0000 3/14. (Connelly, MA)

845

ITALY, Roma fair 0008-0021 w/non-stop mx 8/24. (Nelson, MA)

+was excellent 9/6 0228-0400 w/usual night program. News 0230 was in FF w/ID by female preceding it. This station has been heard many nights since 8/21. (Eckman, PA)

+in quite clear in Italian 0436 9/9, man w/mx. 75% modulation. (Schatz, FL)

+S-9 w/woman talking 0405 9/24, severe WCCO slop. (Sherman, MN)

+noted 10/2 0124 w/light mx, female giving announcements in FF, mention of "Rome" and "informants" 0128, then sounded like nx in FF by female and by man in GG 0134. Was led into this by strong het by 818 stations on WBAP after my 800/810 Latin American check. Rome seems to have a real powerhouse; the only low-band TA comparable to 1554/1586. WRTH says now 540 kw. (Keleher, IN)

+fair to good w/Muzak 0543 12/14. (Connelly, MA)

+fair w/femal vocal 0656 12/21. Fair to good w/background mx 2337 12/21, deep fade 2339. (Connelly, MA)

+fair in WHDH splash w/jazz mx 0358 3/25. (Connelly, MA)

854

SPAIN, Murcia, RNE in readably w/Castillian SS 0434 9/9. Easily distinguished from RNP, Lima, Peru, w/LSCA-2, though latter wasn't coming in well anyway. (Schatz, FL)

+probably the one w/audio from north-east 0524 9/21. 737 and 1025 also in. (Sherman, MN)

+sharing a 0.2 hz het w/Romania 0325 9/24. Spain way on top. (Schatz, FL)

+Re Schatz's logging of Bucuresti-Tincabesti as the weak station w/RNE responsible for 0.2 hz SAH. Latest EBU data on Murcia shows perfect frequency control, same as observed here. Bucuresti has been consistent on 853.9988 for about 6 months now w/insufficient variation to result in a 0.2 hz SAH as observed. The 100 kw RIAS station on the channel has been on 854.9997  $\pm$ 0.2 for the past month, though, and is scheduled to be on at 0325 when Schatz made his logging. (Nelson, MA)

+at ultraloud level, one of the strongest TAs at 0641 12/22. Male vocal, then male announcer, then female announcer. (Connelly, MA)

+good 1/24. 25. and 26. (Colyard, NJ)

+good 2256 2/28 w/SS talk. Usually poor audio here; today was no exception. (Eckman, PA)

+man in SS occasionally getting through horrendous WHDH splash 0436 4/28. (Connelly, MA)

863

FRANCE, Paris probably the weak carrier 0525 9/21. S-5 carrier 0505 9/24. (Sherman, MN)

+assumed to be the one here 2232 10/19 w/talk in unid language. Fair level amidst TVI. Also noted 2246 10/20 w/fair signal. (Eckman, PA)

+good w/man in FF 0632 12/22. (Connelly, MA)

863

MOROCCO, Ksa--es-Souk strong w/Ramadan programming 2335 9/25; ID by both frequency signature (863.0012) and DF. Special care taken w/ID because ORTF has been running AA programming here // 1376 et al. (Nelson, MA)

865

KENYA, Voice of Kenya has been heard in South Africa w/Swahili nx at 1900, presumably Nairobi, ex-863 khz. (Hauser, IL)

872

GERMANY-WEST, Frankfurt, AFN w/soft mx and US EE, man at 2346 9/23. Hets of 0.1 and 0.2 hz also present. (Schatz, FL)

+carrier looping TA making appearance 0441 9/24. Had very long deep fades and seemed to be gone by 0500 recheck. (Rittenhouse, CA)

872

SPAIN, Zaragoza, EAJ101 very strong 0117 w/ID in SS 8/20, generally good that night until s/off 0159 which left AFN alone on channel. Frequency for EAJ101 is 871.9936, AFN is 872.0000. (Nelson, MA)

+EAJ101 and AFN about even 0024-0035; IDs on both 0030; this on 9/7. (Nelson, MA)

+was in well w/SS talk and mx 2303 10/19. First time I've been able to get definite SS out of this one. (Eckman, PA)

872

UNID carrier S-9 0427 10/3 probably NSP AFN unless Spain on early w/OC. (Sherman, MN)

881

CYPRUS, Zyyi, BFBS has moved here from 890, s/off 2115. (MWN)

881

GREAT BRITAIN, Washford making an appearance 0512-0552 9/24. Putting wicked het on WCBS 0549 and some audio w/end of a song and accented talk came through poorly 0548-0552. Faded abruptly 0552, gone by 0600. (Rittenhouse, CA)

+S-9+15 0545 10/3 "This is BBC Radio" clear despite WCBS. (Sherman, MN)

+heard w/fair signal 10/27 at 0700 when WCBS off for unscheduled SP. Faded about 0720. Was fairly good on peaks, nx and commentary. Cuban was dominant on 880 then. (Foxworth, NY)

+het, fragments of talk (sounded EE) poor to fair w/WCBS nulled 0435 3/23. (Connelly, MA)

881

SWAZILAND, Mbabane, SBS w/nx in Zulu and EE on 3/6 at 1106. A very weak signal, barely audible. 10 kw. (Baker, SA)

890

ALGERIA, Algiers almost local quality 2345-2358 in AA, just the slightest trace of an SAH from WHNC at this time on 8/20. (Nelson, MA)

+near local strength 2315-2325 9/3 w/20 year old US MoR cuts; they have one of the most antique record libraries in Europe I suspect... (Nelson, MA)

+strong and in clear 2209-2230 9/28 w/mixture of popular AA and Canned Heat cuts. (Nelson, MA)

+uses chimes and theme from Beethoven's Ninth at ID 2200, then FF nx. Good 10/21. (Nelson, MA)

+muffled FF male announcer atop WLS and a Latin American 2300 1/19. (Connelly, MA)

890

NETHERLANDS. A low-power (probably 1 or 2 kw) relay of Hilversum 3 (on 674 khz) is noted here. (MWN, June)

899

ITALY, Milan very strong, almost even w/900 khz locals 0005-0015 on 8/20; man in Italian and organ mx. One of the best receptions we've ever gotten from this one. (Nelson, MA)

+killing 900 domestics w/woman singing popular mx 0153 9/25. (Nelson, MA)

899

LESOTHO, Maseru, Radio Lesotho heard 3/6 at 1106 (daytime reception) w/nx in Sesotho. Coming in here w/a fair signal w/noise. Peculiar how the signal manages to roll over the Drakensberg Range and come rolling down so well. Noted closing down 2135 on Sunday. 10 kw. (Baker, SA)

908

GREAT BRITAIN, BBC heard 9/22 w/beeps every 11 seconds after TT ended 0512 and continued until 0518 s/on 9/22. Heard other mornings with programming (Foreign Service?) around 0500 however. Has sometimes been heard as well as 910 (as evidenced by pip heights on SB-620) such as at 0550 9/24 when they were very clear w/BBC-4 program. (Foxworth, NY)

+strong second station u/BBC 2350-0000 9/25 but couldn't pull audio through BBC; frequency of unid measured as 908.0171. Only European Zone station observed by the EBU this far off is Baghdad; definitely not African from DF. (Nelson, MA)

70

- 908 UNID, something here hetting 910 khz domestics 2233 10/19. Perhaps BBC. Not noted afterwards on rechecks. (Eckman, PA)
- 912 JORDAN. Reliable sources indicate that the new domestic service on 912 khz is located in the Ajlun area, and uses 1200 kw. (SCDX)
- 917 MOZAMBIQUE, Lourenço Marques, Radio Mozambique LM Radio noted here 8/19 at 2158 w/epilogue in EE and close down at 2200 w/fair signal. (Baker, SA)
- 917 SPAIN, Madrid EAJ2 alone on channel 2359-0003 8/20 w/man in SS. Fair signal. (Nelson, MA)  
 +alone on channel w/woman in SS 0023 9/7. (Nelson, MA)  
 +poor to fair w/man in SS, occasional chimes sounded 0644 12/22. (Connelly, MA)
- 917 YUGOSLAVIA, Ljubljana sharing a 1.3 hz het w/Spain 0328 9/24. Dominant one had long period of cuckoo's and nightingales ending at 0329 then a woman talked. Audio too poor to ID language, but sounded like SS. (Schatz, FL)
- 926 BELGIUM, Brussels again for first time in years in Dutch 0431 9/9. (Schatz, FL)  
 +Belgium/Spain(?) sharing a 5.3 hz het 0332 9/24. New PP station also reported on this channel. (Schatz, FL)  
 +Re Schatz's suggested ID of Spain as the second station responsible for a 5.3 hz SAH against Belgium: Neither EBU or Arctic have any information on a SS station here. According to EBU that SAH can be from either Yugoslavia or Portugal. I believe I may have heard the PP several times recently but cannot positively ID it. (Nelson, MA)  
 +presumed the one w/IS 0428 10/3. Soft, slow, simple sounding notes, then woman with s/on 0430. My far from complete or updated records show this to be the only TA definitely IDed in North America on 926 and also only s/on for this time except Greece. (Sherman, MN)
- 926 PORTUGAL. Noted on 4/24 here, a new frequency paralleling 782, 800, and 1034 khz. (MWN, June)
- 926 UNID. Weak station noted 0502 9/7 too far in the mud for readable audio. Direction finding rules out the new PP station recently noted on this channel by EBU. Frequency signature analysis and DF consistent for both Belgium and Yugoslavia, more likely the former. (Nelson, MA)
- 935 MOROCCO, Agadir unusually poor so far this season; best signal noted 0502 8/23 w/usual AA wailing. (Nelson, MA)  
 +finally some audio, had primitive sounding instrumental mx (like Dakar IS) 0505 9/21. Carrier can hit S-9+15 or more w/no audio detectable, stations from this country must have super low modulation, like about 10%. (Sherman, MN)  
 +strong w/Koran (310 10/3 but bothered badly by buzz from second TA; Agadir on 935.0f0 (about) and unid on 934.9994. Per EBU the second station was probably either Poland or West Germany, suspect former since Kaunas-11C6 was quite strong an hour later. (Nelson, MA)  
 +fair to good w/vocal mx followed by man in AA addressing crowd at low audio level, bad CBM classical mx slop 0520 12/13. (Connelly, MA)  
 +NSP almost every night for Ramadan. (Nelson, MA)  
 +peaking up well w/slow female AA vocal in bad CBM buckshot 2220 1/3. (Connelly, MA)  
 +good level w/AA chanting, thrashed by CBM and WWNH 2248 3/24. (Connelly, MA)  
 +AA and FF mx, fair level 0000 1/25. (Colyard, NJ)  
 +the likely source of low side het on CBM-940 2211 1/27. (Connelly, MA)  
 +weak, chanting mx in and out of adjacent domestic splatter 2232 2/15. (Connelly, MA)
- 944 FRANCE, Toulouse w/woman in FF at very strong level 0646 12/22. (Connelly, MA)  
 +fair w/mx, then man in FF. Weak second station audio on 944, also a low pitched het just off channel, likely a Latin American, 2230 2/15. (Connelly, MA)

- 952 QATAR. 9/1/75 was the target date for the new 750 kw transmitter, at Al-Quraysh, on the north coast. (Hauser, IL)  
+The new 750 kw transmitter at Al-Arish blots out Czechoslovakian 150 kw in Sweden. Address for reports: Qatar Broadcasting Service, P.O. Box 1414, Doha, Qatar. (SCDX)
- 953 CZECHOSLOVAKIA, Brno, "You Are Listening to Radio Prague" Q334 9/24.  
Very thick accent. (Schatz, FL)
- 953 <sup>7</sup> UNID SS or PP male vocal fair to good; 4.5 hz SAH present 2235 2/15.  
(Connolly, MA)
- 960 LESOTHO, Maseru. Radio Lesutu has moved here from 899 khz. (Hauser, IL)  
+believe this one was reported as breaking its crystal and jumping to 960a, then 870a. Is the above a late report of the same incident, a new breakage, or an intentional move? (Taylor, IN) 10/4/75
- 962 TUNESIA, Tunis AN w/Koran for Ramadan 9/21; good signal. (Nelson, MA)  
+is off frequency again; measured 961.5187 w/AA mx 10/23 2237. No trace of anyone else on channel this night. (Nelson, MA)
- 962 <sup>7</sup> UNID S-9 carrier 0433 10/3 probably Tunisia. (Sherman, MN)
- 971 BOTSWANA, Gaborone weak, though at times fair, during daytime here.  
This one has the farthest to travel, about 800 km. 50 kw. (Baker, SA)
- 971 USSR, Nicolayev, strong het noted on 970 for the first time this season 0154 9/25. Assuming at first it was the German, started making routine frequency measurements only to have them s/off unexpectedly 0200. Frequency measured as 970.9997 which is too low for NDR; latest EBU measurement of Nicolayev is 970.9997, however, and power is listed as 600 kw. Will keep after this one for a positive ID. (Nelson, MA)  
+Our tentative above is definitely Nicolayev; noted going off 0200 9/26 w/Foreign Service IS. NDR is apparently going off earlier as I have not noted them while working on the ID of the Ukrainian. According to Arctic, Nicolayev is running 500 kw now. (Nelson, MA)
- 989 GABON, Franceville, RTE heard 6/30 1825 w/talk in vernacular. A fair signal w/noise. (Baker, SA)
- 989 GERMANY-WEST, West Berlin, RIAS strong w/woman in GG 2333 9/3. No trace of RNE that day which is quite unusual. (Nelson, MA)
- 989 SPAIN, Madrid, RNE noted well 0458 9/17 w/guitar IS but faded for ID, of course. (Foxworth, NY)  
+sharing a 4.5 hz het w/West Berlin 2356 9/23. Local WFAB-990 to southwest nulled w/LSCA-2. Some SS audio noted. (Schatz, FL)  
+w/SS mx of a style influenced by AA mx, fair 0649-0651 12/22.  
(Connolly, MA)
- 989 <sup>7</sup> UNID strong carrier 0515 9/24. West Germany or Spain possible.  
(Sherman, MN)
- <sup>7</sup> +a fairly loud het on 990 all evening (morning of 10/6 GMT) thought to be from RIAS but not quite enough to break off audio. CBW s/off 0603 10/6 and het still there but assume Spain causing it by then. (Foxworth, NY)
- 1007 <sup>t</sup> NETHERLANDS, Lopik may be the source of TA carrier detected 0457 9/26. Other carriers noted on 764, 872, 1205 and 1214 that night.  
(Rittenhouse, CA)  
+fair topping WINS slop w/potent carrier, weak audio (woman in Dutch or GG) 0447 3/25. (Connolly, MA)
- 1007 ZAIRE. Radio Bandundu has been heard testing here at 1605-1705, and at 2000, announcing an unheard parallel of 7115 khz. Address is P.B. 100. (Hauser, IL)
- 1016 GERMANY-WEST, Mainz instrumental accordion mx 0438 10/3. (Sherman, MN)  
+CG ID, nx and light mx 0000 12/21 fair w/RDKA interference. (Golyard, NJ)  
+female vocal in GG at 0226 12/21. Dominant w/Muzak at 2115 12/21. Noted on car radio on Route 6 at Bass River, Yarmouth, Mass., at potent level w/wicked 6 khz het on WINS, varying in amplitude at the SAH frequency between Mainz and Turkey 2110 12/22. (Connolly, MA)  
+w/light jazz usually atop Turkey, which had a female vocal. Pronounced SAH of 2.7 hz. Bodacious splash from traffic report on WBZ 2225 2/24.

(Connelly, MA)

+strong w/mx (non-AA type) 0211 3/1. No sign of Turkey at the time. (Eckman, PA)

+fair w/GG talk, then Muzak. Turkey present only as a SAH 0413 3/23. Clearly dominant w/woman in GG 0200 3/25. Good, alone on channel w/soft jazz, slight Latin American het on low side, 0443 3/25. (Connelly, MA)

1016

<sup>t</sup> TURKEY, Istanbul apparently here around 0334 9/6 w/AA sounding mx. Splatter from 1010 khz too much to make out anything definite. (Eckman, PA)

+0330 9/24 semi-wailing or chanting not quite as far out as Dakar. In again 0200 9/25 w/what sounded like classical (violin?) mx until voice breaks in w/wavery far-out wailing in presumed AA. (probably Turkish. ed) Both mornings they faded 0330-0400, correct for local sunset there. (Sherman, MN)

+a surprise logging 0237 9/23 w/woman singing. Unexpected as signal as strong as Germany's. Noted again 0337 9/24 w/native string mx and 3.1 hz SAH. Measured as 1016.000. (Schatz, FL)

+the strongest TA on the band 0130-0210 w/Koran reading and woman announcer in Turkish on the hour. Good 0.9 hz SAH from the German but no trace of his audio this night 9/25. Should have made it at least as far as the midwest this night. (Nelson, MA)

+I have heard a 250 watter far out in the Pacific (1385) yet somehow I never imagined that I would hear this megawatter a few hundred miles farther away. But I believe I have Istanbul on tape. At 0305 9/25 Nelson phoned me that Istanbul was bombing into the Boston area so well that he thought it might also be heard this far west. I tried but failed to pick up any trace of them. But almost 24 hours later, I found a definite het on YSC about 0240 9/26. Using the BFO and vernier tuning I settled on 1016, nulled YSC and waited for something to develop. By 0245 I had a steady carrier pushing the needle to S-7. There was slop from KBCQ-1020 and very difficult to distinguish between audio on 1016 and slop from 1020. Taping was unproductive until 0301 when I detected a soft voiced woman as the station rose out of a fade. I had her 55 seconds but cannot diagnose the language. Then came 28 seconds of silence and then heard a male voice for 20 seconds, unrecognizable as to language. 25 more seconds and then in came muezzin chanting as from Muslim lands going over 40 feet (11 meters) of tape. My last taping ended 0313 and station faded swiftly away after that. I was unable to produce a BFO whistle by 0338 suggesting the intervention of sunrise on the Bosphorus. Believe this is the farthest west so far for Istanbul but I doubt this claim will remain valid very long for this can surely make it to the west coast. My thanks to Nelson. (Martin, CO)

+Re Martin's tape of 9/26, just received here: no question about it, definitely Istanbul. The language is definitely Turkish, the announcers voices are the same as have been heard here almost every night since the beginning of Ramadan, and the program timing is very similar to what was noted the night before. Out of curiosity I ran off effective ionospheric dawn time for the Istanbul-Denver path on 9/25 and it is 0342. Congratulations to Gene for a fine logging; I believe it is just a matter of time before it is heard on the west coast. (Nelson, MA)

+While Germany seems in the clear by 0500 (loud 9/24), earlier the 1200 kw Turk is well heard. Two audios w/3 hz SAH up nicely 0230 9/22 cutting right past WINS. Nil heard 9/29 but 9/30 at 0250 a very loud OC here, faded, woman spoke 0300 maybe, then in again w/Eastern mx, and yes it is slower and mellower than Moroccan type mx. Woman talks again 0330 and still in well until 0345 tune-out. One of the better TAs heard, a good bet to try in the West. (Foxworth, NY)

+logged here 10/2 testing at 0251 prior to s/on. Was still fighting it out w/German at 0315. Traditional Turkish mx at that time. (Stanbury, ON)

+even mixture of Polka mx and Koran readings 0338 10/3, Germany and Istanbul both very strong w/a 0.3 hz SAH. Re Schatz's unid SAH here, I've checked this channel every night since Ramadan started and have always noted a SAH between Istanbul and Germany. If you are certain that there was a third station present it was probably the new station in Slonim, Byelorussia. (Nelson, MA)

+logged w/OC o/Germany 0245 10/5, causing a 1.2 hz SAH. As the transmitter warmed up the SAH dropped to 0.7 hz at s/on. Went into IS at 0254 and was into anthem at 0256. Woman announcer spoke occasionally. Lots of moderate to slow tempo mx for the next hour, and by 0402 they had faded enough so that the German was consistently atop Turkey. Both

had moderate fades, not at same times (e.g., 0327) Turkey was way atop and alone, at equal level w/KDKA and perfectly clear audio even w/WINS-1010 beaming at me. For unknown reason, careful checks the same hours 10/6 yielded only a clear SAH-free Germany (very high and steady 0330-0400 w/ID, nx from Hamburg) so obviously Turkey's schedule is not consistent. Whenever heard, never fades completely out on fades. On the other hand, Germany will fade completely out w/Istanbul. On 10/5 this was the best TA signal on the entire band, when fades favored signal. (Foxworth, NY)

+Germany alone 0115 10/7 fair signal w/upbeat mx during fair midband opening. No indications of anyone else there. On 10/26 an OC came on and slow SAH started around 0145 and IS began 0155. Anthem 0159 briefly and woman spoke 0200. Fair signal, even with or slightly o/Germany. 0300 heard w/ID and 6 pips which were about 30 seconds late! They were still on top but fading more at 0415. Monitoring 10/27 showed s/on at same time of day. (Foxworth, NY)

+at first Germany dominant w/big-band type mx, Istanbul behind w/man talking 2330. Turkey rose atop w/Greek-style Bouzouki mx w/male vocal totally dominant 2332. German atop briefly w/Sergio Franchi-type operatic male vocal 2333, followed by a longer period of Turkish dominance w/the German audible underneath. Very strong Istanbul peak about 2338, man in Turkish, on 1/5. (Connelly, MA)

+Turkey heard for first time in weeks w/IS 0256 mixing w/Germany, not an especially good signal and lots of fading, nowhere near the levels of October. (Foxworth, NY)

1025  
t AUSTRIA, Kronstorf, 2258 1/22 w/easy listening mx, woman at 2300 in Italian mentioned program is for Italians. No definite ID. Had some interference from EAJ8. (Wooten, IT)

1025  
SPAIN, San Sebastián, EAJ8 here 0505 9/1 in FF. Knew that they had a FF program but thought it was scheduled later than this. (Eckman, PA)

t Is Radio San Sebastián only station from Spain reported on 1025? Audio from north-east 0528 9/21, 737 and 854 khz were in then. Rock mx 0458 10/3. Help! Any other possibilities? (Sherman, MN)

+2 loud OCs here until 0553 10/6 when begins lively castanet mx. IDs in FF and SS 0554, gives frequency in khz, uses about as much FF as SS in this time of day at least. "Radio Popular;" plays "Monte Carlo" type mx a lot. (Foxworth, NY)

t here w/male SS announcer, female vocal during good TA cx 0552 12/14. (Connelly, MA)

+fair w/SS male vocal 0757 12/21. Again w/man in SS and SAH 2109 12/21. (Connelly, MA)

+good w/female vocal, FF and SS talk by man and woman, then male FF vocal 0503 4/28. (Connelly, MA)

1034  
ITALY, logged u/PP 0443 9/23 by comparing with 845 khz. 7 hz het 0343 9/24. Portugal on 1033.994 0238 9/23. (Schatz, FL)

1034  
PORTUGAL, Porto Alto, CSB2 carrier was found here 0500 9/8 when KTWO was nulled. Tapes four minutes of poor audio, mx, 0511, but failed to hear any kind of announcement at 0515. The carrier was noted several nights at the same times when Lisboa was doing so well on 665. (Martin, CO)

+S-9 9/21 w/selectivity wide open. Regular S-9 if any European in.

Several hz SAH 0507 10/3. (Sherman, MN)

+a surprise 0425-0545 9/24 w/a big carrier and clear PP overriding KTWO slop at peaks. This was the best of any TAs noted 9/24. (Rittenhouse, CA)  
+very strong w/political speech in PP followed by play of some sort 0015; frequency 1033.9937 on 9/26. (Nelson, MA)

+Radio Clube Portugues closed its 100 kw transmitter at 2107 on 12/11 after a unit of the Armed Forces had threatened to destroy it if it remained on the air. All Emissora Nacional broadcasts now originate at studios in Oporto. (MWN)

+interspersed mx and talk (sounded PP), poor to fair, WBZ off, 0542 12/14. (Connelly, MA)

+heard ID as Radio Portugues, no location heard, definite PP announcer, Portugal mentioned many times, PP and EE mx, record "You're 16" w/Ringo Starr. I read that CSB2 was forced off the air. Very strong signal 0030 1/26. Any help? (Colyard, NJ)

+If Portugal is off the air, Italy must be running early here as a slow male vocal in a Romance language was noted here fair in WBZ slop 0330

3/3. Only southerly TA paths were viable at the time. (Connelly, MA)  
(Believe Portugal is still operating here. ed)  
+at fair level in WBZ slop w/PP male vocal, then PP talk 0504 4/28.  
(Connelly, MA)

1034

MEXICO. Martin reports an XE.. spur here. See Pan American section. ed.

1038

IRAQ: Babylon 2 x 1000 kw transmitters in use from 4/8/75. Noted on 4/17 in // with 11785 khz. (MWN, June)  
+new 2 megawatt transmitter at Babylon logged for first time 9/6. Carrier came on 0219:18, first audio noted 0225 (some sort of mx). Woman speaking rapidly in AA 0230-0232, AA mx up briefly 0238. This one should also be heard during Ramadan. Quite a thrill to hear Iraq again since the 764 outlet moved to 760 about 10 years ago. (Nelson, MA)  
+probably the one hetting WHO 0330 9/24. Carrier separable but audio lost in slop. Most likely the only station on Planet Earth operating on 1038. Turkey-1016 w/good audio at same time is strong evidence as they are neighboring countries. If not them then what is it? (Sherman, MN)  
+in AA 2304 1/2: w/nx, ID, chants, and s/off at 2319. (Wooten, IT)

1038

UNID, likely Iraq, carrier present here but too much WBZ to permit audio extraction 220C 2/25. (Connelly, MA)

1043

? GERMANY-EAST, Dresden a powerhouse 0313-0335 9/7 w/US pops (e.g. "Yellow River"). Second TA carrier signed on 0318 but too weak for any audio. According to latest EBU frequency measurements this would be Greek although WRTH says he is not due on until 0430. (Nelson, MA)  
+w/het of 0.8 hz 0345 9/24, Dresden way on top w/mz and a female. Hetter definitely south of Germany so Morocco rather than the USSR likely.  
(Schatz, FL)

+must be the source of north-east carrier 0437 9/24. Was gone by 0500 recheck. Has this ever been heard on the West Coast? (Rittenhouse, CA)  
(Believe a Seattle area DXer got them during the 71-72 season. ed)  
+very strong w/"Save the Last Dance For Me" in GG 0032 9/26, alone on the channel. Re Schatz's assumption of Morocco as the station responsible for the 0.4 hz SAH: according to EBU Morocco has been 35±10 hz high for at least 6 months; noted here on 1043.0433 on 9/25 0235. I suggest your other carrier is either Greece or Belgium, both of which have recently been within 0.4 hz of Dresden and are located on lower bearings (Nelson, MA)  
+S-9 0442 10/3 while West Germany-1016 in good. (Sherman, MN)  
+has been very good here in 0300-0500 period w/up tempo mx show, occasionally louder than WHO 10/5 and 6 but moderate fading. Trace of someone else on the frequency around 0300 period needs checking, whenever I am home to do so. (Foxworth, NY)

1052

GREAT BRITAIN running 100% modulation 0348 9/24. Loud! (Schatz, FL)  
+probably BBC here w/dramatic presentation w/woman talking excitedly. Too much WHN s/lcp and audio degradation from using 1 khz selectivity to discern language being used, 2125 12/21. (Connelly, MA)  
+reception of 12/21 at 2125 IDed definitely as BBC per Nelson's listening to the tape. Program was play in EE, woman talking. (Connelly, MA)  
+may be the carrier in and out 0456-0543. At 0543 was putting fierce het on CFCP/CHUM. (Rittenhouse, CA) (Date? ed)

1070

SYRIA: Damascus is offset to 1071.19, noted around 1915. (MWN, June)

1079

UNID, a s/on here 0458 10/3 would be easy except for WTIC splash. Must be Poland or Germany but needs more work. Heard definite GC here earlier night. Has horn IS, brassy anthem. (Foxworth, NY)

1088

ALBANIA, Durres, taped Internationale here 2227 10/19 at good level with a het. 1394 khz was excellent at this time. Thought Albania had moved from here but guess not. (Eckman, PA)

1088

GREAT BRITAIN. According to the BBC, transmissions from the test site on 1088 (previously reported as Orfordness) are at 0745-1745 with 50 kw. The 1088 transmitter is a second-hand ex-USIA 50 kwr. Has a very strong signal for a 50 kw station, thus earlier leading a professional source to estimate its power as 500 kw. (SWNS)  
BBC World Service Crowborough noted here 8/20 at 2054 w/talk on navigation. Poor signal w/noise. (Baker, SA)

+very strong w/BBC World Service ID at 2349 9/3; second station audible at times on 1088.0166 w/definite Central Africa DF signed off 0000:50, could be either Angola (scheduled s/off 0000) or Nigeria (scheduled s/off 2305), more likely the former. (Nelson, MA)  
 +this has been one of the best TAs here this fall. They are heard well, before 0330 some nights, and are in past 0500, often in other languages such as FF. Their modulation often seems a lot better and more potent than other TA signals; they are easy to separate from 1090 here. They seem a lot better this year than in other seasons. However, had a second station w/a 1 hz SAH 0430-0445 9/29. (Foxworth, NY)  
 +fair level w/man talking 0310 12/9. (Connelly, MA)  
 +fair to good w/woman talking 0229 12/21. Chimes at 0230. Low-pitched het on high side. (Connelly, MA)  
 +w/man in EE o/u presumed Albania (woman talking) at fair level w/some WBAL slop, SAH of 0.8 hz noted 2219 2/24. (Connelly, MA)  
 +fair in WBAL slop w/man in EE w/nx 0409 4/11. (Connelly a, MA)

1097

CANARY ISLANDS, Las Palmas, ECS4 clear SS 0624 9/22 and still readable 0651, carrier detectable past 0705. Heard mentions of "Las Palmas" local market prices, etc. On this date the local sunrise terminator is almost vertical north to south, leaving all else faded out by sunlight at this late hour on the frequency. Earlier in the morning, 1097 is a mass of low hets whenever checked. (Foxworth, NY)  
 +S-9 w/IS 0655 10/27. Easy w/WWWE off but slightly low het probably from Madrid, which I still need. (Sherman, MN)

1097

CZECHOSLOVAKIA, Bratislava apparently the one w/classical mx 0427 2/28. News by a man in unid language 0430. Prague strong on 1286 at this time. (Eckman, PA)

1097

? UNID, Spain probable, carrier noted above strong audible growl of low hets 0104 3/4. (Connelly, MA)

1106

GERMANY-WEST, Munich, AFN strong and clear w/sports in EE, male announcer. Item about upcoming Canadian Olympic Games in Montreal noted; second station way under w/mx, zero-beat, 0627 12/14. (Connelly, MA)

1106

LITHUANIA, lovely signal 0415-0425 10/3 w/woman doing sitting-up exercises w/piano accompaniment in RR. This is common programming for many of the Russians after they s/on in the morning. It should be noted that the correct location for this station is Kaunas, not Vilnius; this according to very recent EBU info from the Soviet government. (Nelson, MA)

1106

? UNID, two signals here, roughly equal, 3 hz SAH around 0330 9/30, one may have been Lithuania. (Foxworth, NY)  
 +two stations sharing 1.6 hz het. Dominant station measured on 1106.005 0021 10/25. (Schatz, FL)  
 +station here w/mx and woman speaking on 1124 heard 10/26 at 0145 period. (Foxworth, NY)

1115

ITALY, fair to good w/man and woman in Italian alternating, 2 or 3 notes of tinkly mx occasionally interspersed 0629 12/14. (Connelly, MA)  
 +at excellent level in the clear w/Christmas mx program w/man and woman announcers 2225 12/21. (Connelly, MA)

1115

MOROCCO, Quarzazate good w/Koran reading 2310-2325 9/17. (Nelson, MA)  
 +potent and dominant w/flute mx and female AA vocal, approximately 0.3 hz SAH noted 2355 1/25. (Connelly, MA)

1124

t LIBYA, El Beida assumed to be the one here w/excellent signal 0351-0357 9/2. Had AA chanting followed by song, then abrupt fade-out. Must have been close to sunrise there. (Eckman, PA)  
 ? +sharing 5 hz het w/an unid station 0354 9/24. One had band mx, the other a woman singing. Ideas? (Schatz, FL)  
 +re Schatz's 5 hz SAH here: I have not noted Libya on late for Ramadan this year. We have checked this channel several nights recently around 0400 and have always found a mixture of EAJ15, USSR (after 0300 s/on) and Yugoslavia (after nominal 0330 s/on). All three stations have recently been reported by DXers. Unless you are certain that one of the stations was Libya as reported, the likely pair is EAJ15 and Yugoslavia. My most recent measurement of Yugoslavia was on 9/22: 1124.0053. EAJ15 and the USSR are both within 1 hz of nominal, either of which will generate a "5 hz" SAH. (Nelson, MA)

- 1124 YUGOSLAVIA, Baske Ostarije heard 0327 9/6 by accident while tuning down from 1133. Hac same IS as 1133 and almost as good a signal. S/on at 0330 in unid language. Still there // 1133 at 0352 w/song. (Eckman, PA) +w/Bing Crosby style vocal, other oldtime mx // 1133. Fair level, some WNEW slop. Libya not noted. At 0235 12/21. (Connelly, MA)
- 1124 ? UNID, good carrier here 0328 2/28 apparently not Yugoslavia as I've heard them w/IS at this time in September. Mx of some sort heard 0335 but was not able to ID language during voice announcements. Maybe Spain but mx didn't sound SS. (Eckman, PA) (Libya on early? ed)
- 1133 KUWAIT, Radio Kuwait is now scheduled to broadcast in EE 0800-1100 and 2000-2300, and Urdu 1800-2000, according to schedule. (SCDX)
- 1133 SPAIN, Sevilla, ECS8 s/on 0601 w/anthem 9/30, gave slogan as "La Dario del Guadalquivir, had to go over the tape for ID. In a low growl of hets. Here's a tribute to taping one's DX! WNEW off the air for the first time in ages. (Foxworth, NY)
- 1133 YUGOSLAVIA, Tovarnik heard here 8/28 w/IS 0325-0330. Again on 9/3 and 9/6. 9/6 reception was best yet w/excellent signal at 0326. // outlet of 1124 seems infrequently reported here. (Eckman, PA) +// 1124, weaker w/40's style mx, badly thrashed by WNEW 0236 12/21. (Connelly, MA)
- 1142 ? UNID, carrier noted, mx occasionally surfacing, hetted by TV birdy 0407 4/11. (Connelly a, MA)
- 1169 GREAT BRITAIN, Ipswitch, Radio Orwell will operate here, not 1187 kHz, the frequency used by Radio Caroline. (SCDX)
- 1178 ? UNID TA here w/fair signal, bad fading, around 0640 1/12, could not read due to heavy splash from WHAM. First reception of anything on this frequency this season. (Foxworth, NY)
- 1187 INTERNATIONAL WATERS, Radio Caroline/Mi Amigo; fair w/up-to-date US rock mx 0115-0200 8/25. Characteristic frequency behavior on this one, several hz of fast short-term variation around a mean of 20 hz on the high side of nominal. Alone on the channel at the time. (Nelson, MA) + "Mi Amigo" high and clear 0550 and ID, promo and 6 pips at 0600. Nice signal and programming, popular mx in the English flavor. Heard consistently w/at least readable signals here. (Foxworth, NY) + believed to be the one here at 2317 during good TA opening. Had rock mx and announcement in EE, I think. Gone by 2330 recheck. (Eckman, PA) + fair w/latest popular mx and EE announcements 0215-0225 9/25. (Nelson, MA) The Radio Caroline ship "Mi Amigo" broke its anchor chain on Nov. 8. It drifted from its position off Walton-on-the-Naze and finally anchored off the Kent coast. Its broadcasts were suspended until Nov. 13. On Nov. 14 the station was raided by police acting on orders from the Home Office. Shouts and scuffles could be heard before the transmitter was put off the air. On Nov. 15 four men, the ship's captain, two disc jockeys and an engineer, appeared in Southend Magistrates charged with making illegal broadcasts from within territorial waters. The men pleaded not guilty claiming they were in international waters and were released on £1000 bail each. In Dutch newspapers on Nov. 25, it was read that the ship had been pulled loose by a Spanish tugboat. (SCDX) + poor to fair w/fast-talk announcer, considerable domestic slop 0622 12/14. (Connelly MA) + fair to good w/"Unchained Melody" by the Righteous Brothers, then "Land of Make Believe" by the Moody Blues 0125 1/6. (Connelly, MA) + 1800 to past 2200 1/22 w/rock mx and ads in EE. (Wooten, IT) + poor to fair w/rock o/presumed Guatemala-1188; mean het resulting, both badly splashed by CHTN/WOWO 0415 3/3. (Connelly, MA) + at fair level w/slight het from 1188 Latin American, lots of noise, 0055 3/4. (Connelly, MA) + poor w/male vocal in bad CHTN splash 0405 4/11. (Connelly a, MA) + Caroline and Guatemala hetting each other so fiercely that good audio could not be brought up on either station 0455 4/28. (Connelly, MA)
- 1190 MOZAMBIQUE, Radio Mozambique (possibly "A Voz de Moçambique" at Maputo) heard here 5/8 1437 w/local mx and announcements in local vernaculars. Signal strength was excellent. This frequency is either a shift from

1223 or else a transmitter fault. Also possibly a massive increase of power as never heard so clear before. (Baker, SA)

1196

GERMANY - WEST, Munich, VOA relay noted here 8/20 at 0306 w/nx in EE read by a female. Good signal w/noise. (Baker, SA)  
+w/excellent signal 9/3 0336-0400. ID in EE at 0400 followed by Yankee Doodle IS and into program in unid language. Very good on 9/6 also. (Eckman, PA)  
+very strong, S-9+20 w/EE nx including report from on-the-scene- correspondent covering fighting in Lebanon. SAH noticed during fades 0621 12/14. (Connelly, MA)  
+w/talk barely atop jumble w/a very pronounced fast SAH 2153 12/21. (Connelly, MA)  
+east European language, EE ID "This has come to you from the United States of America" 0355-0430 12/22. ID at 0415. Also heard a jammer. (Colyard, NJ)  
+fair in CHTN/WOWO splash w/man in EE followed by barbershop quartet style vocal 0352 2/25. (Connelly, MA)  
+fair to good w/man and woman in a Slavic sounding language 0405 3/23. Hetted by unid on 1196.6. (Connelly, MA)  
+fair w/soul show ending w/"Mercy Mercy Mercy" by Cannonball Adderly; then EE VOA ID and Yankee Doodle IS 0400 4/11. (Connelly a, MA)

1196 ● MOROCCO, Agadir 3 heard w/good signal 0437 2/28 w/talk in AA. Unusual in that this isn't supposed to be an AA service but doubt that it was VOA. (Eckman, PA)

1196 ? UNID S-9 audio 0455 10/3. VOA only possibility or Morocco on early for Ramadan? (Sherman, MN)

1205 FRANCE, Bordeaux strong 0607 w/man in FF but Sierra Leone audible and sometimes readable w/EE nx underneath 9/23; the 13.4 hz SAH between ORTF and Freetown is definitive here. (Nelson, MA)

t +probably S-9 audio 0455 10/3. (Sherman, MN)  
+surely the TA carrier noted at various times 0520-0555 10/3. Good strength at times but fadey. Audio trying desperately to poke through but never quite made it. (Portzer, WA)  
+carrier showing up 0501 dead on 1205 and looping TA. Came up pretty strong for a minute and I thought might get audio but a big fade wiped them out. (Rittenhouse, CA)  
+10/27 0648 w/female in FF. Carrier had been noted earlier. Lots of WOA1 slop. (Keeney, KS)  
+likely the one here at good carrier level w/weak modulation, male announcer 0631 12/14. (Connelly, MA)  
+in well w/jazz program followed by woman in FF reading list of names 2159 12/21. (Connelly, MA)  
+strong w/woman in FF, then La Marseillaise at s/off 2300 2/6. (Connelly, MA)

● +A-index was 17 on 2/11 but Bordeaux and Sierra Leone were found mixing it up here at 0646, distinctly 2 signals as heard many times before. Didn't stay long enough to prove either one for I had bigger fish to fry in this unprecedented TA opening weeks beyond the so-called mid-winter anomaly. (Martin, CO)

+strong w/classical piano mx, then FF talk 2212 2/24. (Connelly, MA)  
+reports of AA mx and programming on 1205 in the 0500-0600 period are undoubtedly France. Same program heard // 836, 944 and 1376 etc. (Foxworth, NY)

1205 ? UNID, definite carrier found here 0704-0708 12/22 after finding carrier on 764. Signal looped TA but faded out so no chance for audio. A-index was 2 after long quiet spell so I guess France a possibility though it surprises me since the mid-winter anomaly seems to have set in on TPs. (Rittenhouse, CA) (Could be Sierra Leone which sometimes is heard on the west coast and has a path similar to Dakar's. ed)

1214 ALBANIA, Durras in well 0330 9/30 and alone w/woman in unid language. In contrast, BBC Radio 1 is up nicely and alone many nights, especially good 9/30 around 0515-0545. (Foxworth, NY)

+IS at 0329 and s/on 0330 and very good shortly afterwards, several nights early October and late September, when checked. (Foxworth, NY)  
+well o/BBC w/trumpet IS 0458 3/23. (Connelly, MA)  
+alone on channel at good level w/man in AA 0355 4/11. (Connelly a, MA)

- 1214 <sup>t</sup> GREAT BRITAIN, Washford et al must have been the source of good carrier here 0515-0550 9/3. Looped perfectly and clearly above TVI on 1212 on an excellent night. A-index was 3 after quietest 10 day period since 72-73 west coast receptions. Three months before were quietest in recent years and summer TA/TP reception was the best anyone can recall. Fade-out perfect also. Looks like a great season ahead! (Rittenhouse, CA)  
 +in fair 9/24 0438-0544 w/carrier strength second only to 1034, but only weak traces of audio except for short stretch 0518 when EE talk emerged. S/on supposed to be 0500 so I guess carrier on before. (Rittenhouse, CA)  
<sup>t</sup> +either England or Albania noted on 9/26 0330-0340 tune-out w/female announcer giving commentary. Sounded like EE but am not sure. Signal poor to fair w/moderate fading and some splash from 1220. (Jensen, MD)  
 +in well 0503-0601 10/3. Talk at first, then rock/popular mx by Jim Croce et al, long talk by a female to 0520, then more rock mx and tune-out. Tuned back in 0558, playing 1950's rock hit "Poetry in Motion," then song extro, then an announcement. At least 4 pips 0600. Definitely recognizable as British EE and sometimes completely readable. Signal good but fadey w/bad CJOE-1220 sloop at times, actually stronger than WCAU on occasions! (Porter, WA)  
 +ultraloud, S-9+40db totally dominant, no Albania. Announcer mentioning Radio 2 was followed by time pips 0700; then folk mx by Maddy Prior and Steeleye Span including part of the hymn "Gaudete." Announcer wished all a good Monday mornng, then played "Evil Woman" by Electric Light Orchestra 0705. Signal at strongest level (even w/WCAU) 0714 during Dave Clark 5 oldie, thundering in w/no interference. Announcer mentioned it was Dave Clark's birthday. Still good past 0815 12/14. (Connelly, MA)  
 +at good level w/inspirational talk, then religious Christmas mx 2150 12/21. (Connelly, MA)  
 +good carrier but poor audio noted 0621-0627 2/11. (Martin, CO)  
 +at fair level w/some WCAU interference w/slow "torch song" type female vocal, then man in EE 2228 2/24. (Connelly, MA)
- 1214 <sup>?</sup> UNID SAH on BBC 0457 10/3. Albania and the USSR at least 15 minutes past local sunrise. (Sherman, ME)  
<sup>?</sup> +weak femal announcer, definitely not SS, beam TA 0630 1/7. WCAU splatter (Colyard, NJ) (BBC most likely. ed)  
 +very definite nrth-east carrier here, but no audio, found 2/5 0614-0620, the only time I ever found an apparent North European signal in the month of February, but see 1586 khz. (Martin, CO)
- 1223 ● BULGARIA, Plovdiv very good 0105-0115 8/25 w/man in Bulgarian (?), Madrid audible from time to time underneath. This station is now operating NSP w/1200 kw and has replaced Spain as the dominant occupant of this channel. (Nelson, MA)
- 1223 SPAIN, Madrid or top w/SS male. Hets of 3.0 and 1.8 hz against Bulgaria and Sweden present 0011 9/24. (Schatz, FL)  
 +assumed to be the one here w/classical mx 2252 10/19. Definite SAH noted 2350 perhaps the Bulgarian trying to get through. (Eckman, PA)  
<sup>t</sup> +the likely source of fragmentary audio noted here at 0050 3/4. (Connelly, MA)
- 1223 <sup>?</sup> UNID, a definite carrier noted 2305 9/24. No audio heard. Albania was good at times, Monaco was excellent. The Bulgarian looks like a nice possibility but Spain still here too. (Eckman, PA)  
<sup>?</sup> +Trying for listed NSP Bulgarian reported by Nelson, nil heard before 0100, loud carrier here after 0100 10/6 but couldn't pull audio, if any (an equipment test from Spain?). Anyway, this one eludes me. (Foxworth, NY)  
<sup>?</sup> +carrier looping just barely south of Bordeaux 10/27 0555. It sure put a good het on WGAR. Probably Spain but no audio. (Keeney, KS)  
<sup>?</sup> +apparent carrier o/weak male talk in FF. Talk could have been low modulation of that carrier as no SAH noted 0638 12/14. (Connelly, MA)  
<sup>?</sup> +carrier w/1.6 hz SAH 2357 12/22. EBU data suggests Bulgaria and Spain as the two stations involved here. (Connelly, MA)
- 1232 ● MOROCCO, Tangiers. Het of 1.7 hz noted 0014 9/24, SS on top. Tangiers later measured on 1231.914 at 0406 9/24. Unid measured on 1231.997 in SS 0243 9/23. Both Tangiers and Czechoslovakia capable of carrying SS so who? (Schatz, FL)  
 +overpowering Czechoslovakia w/Ramadan fare 0227-0247; not a trace of Cyprus, alas. This on 9/24. (Nelson, MA)

+fair 2335-2353 9/29 w/Koran. (Nelson, MA)  
+poor to fair w/AA style mx, pronounced 2 hz SAH 2352 12/22. (Connolly, MA)  
+seemed to be the one w/AA sounding mx 2239 2/28. Poor audio but strong het. Noted gone by 2300. (Eckman, PA)

1268 GERMANY-WEST, Neumünster fair, man in GG 0633 12/14. (Connolly, MA)  
+at fair level w/woman in GG 0730 12/22. (Connolly, MA)  
+heard w/fair signal apparently // 1538 which was excellent at the time.  
Radio Paradise was no problem 0210 3/1. (Eckman, PA)  
? +probable here w/strong carrier and 400 hz TT 0350 4/11. (Connolly a, MA)

1266 ? UNID het of 3.2 hz present 0410 9/24 suggesting either Spain or the Canary Islands, the two most likely to be that far off frequency. (Schatz, FL)  
+re Schatz's assumption that the 3.2 hz SAH here must be Spain or Canary Islands; this is almost certainly the 150 kw Yugoslavia station. It's on the air then and has varied from 1.5 to 3.8 hz to the high side of the German for the last month. EAKL, on the other hand, hasn't varied more than 0.2 hz from its present mean of 1267.9996. Newmunster, of course, never varies as much as 0.1 hz. (Nelson, MA)

1277 ? UNID, one station atop jumble of others. Dominant had man and woman announcer duo; audio too muffled to determine much else 0634 12/14. (Connolly, MA)

1286 CZECHOSLOVAKIA, Prague w/a 2.3 hz het 0020 9/24. Unid measured on 1286.010 0506 9/23. Just might be Senegal. (Schatz, FL)  
+re Schatz's mystery SAH of 2.3 hz against Prague and unid; the 2.3 hz SAH is almost certainly the 100 kw Israeli, the other is very likely to be Portugal. Former station is about 2.5 hz below Prague most nights, Portugal is consistently within a hz of 1286.010. The Dakar station has not been heard in a long time and shouldn't be on so early. (Nelson, MA)  
+definitely ID'ed w/SW // 6055 w/"Inter-program." Good level w/woman talking at 2332 10/19 in GG, I think. Several mentions of "Czechoslovakia." (Eckman, PA)  
+likely the one here w/classical mx at good level 2347 12/22. (Connolly, MA)  
+heard w/strong signal 0331 2/28. Apparent s/on 0330 as wasn't noted two minutes before that. Much weaker 3/1 w/carrier on at 0328 but no audio discernable. (Eckman, PA)

1286 ? UNID, suspect Prague but WRTH says power was decreased here. Noted 2306 9/24. Talk by man 0001 9/25 which is after Prague's s/off. Fairly good signal but couldn't ID language. (Eckman, PA)  
+apparent OC, likely Czechoslovakia, at fair level in CJMS splash; if modulated, it was less than 30% 0400 2/25. (Connolly, MA)

1295 GREAT BRITAIN, Crowborough, BBC w/talk barely above the growl of hets 0753 12/21. (Connolly, MA)  
+good w/IS 0355 1/11. No TAs noted below 1295 this evening. (Eckman, PA)  
+strong w/CHU-style pips preceding regular s/on 0345 4/11. (Connolly a, MA)

1295 MOROCCO, Rabat fair w/Ramadan programming 9/26 0408. Frequency measured 1295.2033 but drifting rapidly. Produced bad buzz against unid Latin American drifting around 1294.9469; latter up fairly well 0425-0430 with Latin American mx and man in SS but too weak and distorted to get an ID. The Latin American was not audible the next night so might have been "just drifting through" on 9/26. (Nelson, MA)

1295 ? UNID hetting BBC 0553 9/24. Not a Latin American as per the LSCA-2. (Schatz, FL)

1300 INDIA, Parbhani, AIR heard 6/30 1542 w/nx in EE. Good signal w/ slight static. (Baker, SA)

1303.8 SENEGAL, Kaolock exactly on 1303.823 0557 9/24. Algeria on 1304.000. (Schatz, FL)

1304 ALGERIA, Constantine S-9 0608 10/27 w/woman talking. Seemed to be FF and good DF for North Africa. In until about 0645, which was 75 minutes past their local sunrise and would have thought impossible that late but definitely them. Best African cx I've ever experienced.

- 1304 ? UNID jamming sounding like TV noise. Band checked for TV birdies, none present. At 2155 1/3. (Connelly, MA)
- 1313 NORWAY. The Students' Ragweek transmitter in Trondheim has been heard testing here after close-down of NRK's home service. (SCDX)  
 +sharing 1.3 khz SAH w/unid Portugal 9/24 at 0523. Stavanger definitely there per LSCA bearing and choral singing, but who's the man in Portuguese on top? (Schatz, FL)  
 +Re Schatz's Portuguese station here, nothing possible reported by either EBU or Arctic. Stavropol, USSR (100 kw) running Moscow Foreign Service is a remote possibility. (Nelson, MA)
- 1313 SPAIN, Campo de Gibraltar, RNE fair but readable 0444 9/26; alone on channel. Frequency measured as 1312.9999. (Nelson, MA)  
 +must have been the station w/fairly good signal 0700 1/11, missed ID (if any) due to tuning around. They were definitely SS w/no trace of Norway behind; opening did not favor anything other than Iberians. (Foxworth, NY)
- 1322 CHANNEL ISLANDS. Plans exist for land-based pirate for Jersey to operate Sundays only. A possible legitimate station is being considered, conditioned on a frequency grant by the British government. (MWN)
- 1331 ? UNID, possibility of the Italian on a few minutes earlier than listed 0500. Opera heard at good level but audio weak 0455 3/23. (Connelly, MA)
- 1345 ● KUWAIT, Al Jiwan almost certainly the signal here 0227 2/10. Played an IS several times, seemed to have lots of dead air, some chants (probably Koran readings) heard 0232 and times afterwards. Fair signal, S-6 on peaks, rapid and deep fades but modulation seemed to be very shallow. Signal was out at 0300 re-check. At 0229 a definite het heard from 539 khz, against 543, but not enough there for audio. High-band cx were much better than low-band this night; interestingly at this time, nothing at all noted on 1016 khz. The 1345 signal was exactly on frequency (within a few hz error bracket) according to my \$30 frequency standard. (Foxworth, NY)
- 1349 ? UNID, strong het on CKAD/WKLX, audio not readable 2232 12/22. (Connelly, MA)
- 1358 GERMANY-EAST, Berlin-Koepenick apparently the one here w/some light mx breaking through the strong het 0308 3/1. Other high-band Germans were excellent at the time. (Eckman, PA)  
 +at strapping level w/electronic mx having both classical and jazz influences, then woman in GG 0448 3/23. (Connelly, MA)
- 1358 UNID, mx detectable here fair 0122 10/6, assume Germany. Brief signal. Had something on 1268 at same time. Both faded a lot and were hard to read. (Foxworth, NY)
- 1367 POLAND, Bialystok a pleasant surprise way atop the channel 0425-0435 with a man speaking in Polish on 10/3; good central Europe opening in progress. At least three SAH's visible but didn't take time to sort them out. (Nelson, MA)  
 +w/male vocal and talk, briefly strong, faded 0750 12/21. (Connelly, MA)
- 1367 PORTUGAL, Porto Monte de Virgem must have been the station up high in PP 0710 1/12 w/nothing behind; rarely is heard so well here, even though had moderate facing. (Foxworth, NY)
- 1367 ? UNID, definite carrier noted here at 2345 10/19; only at fair level. Little else got through. (Eckman, PA)
- 1375 SAINT-PIERRE-ET-MIQUELON: Radio St.-Pierre operates now from 0930, on Sunday from 1000, to 0145 with 4 kw according to a schedule. Radio St.-Pierre can sometimes be heard as late as 0200 with weak signals. (SCDX)  
 +ORTE or whatever it is now, 10/27 0935 w/good steady signal. FF middle-of-the-road mx and female announcer. (Keeney, KS)  
 +fair carrier w/very weak FF man, carrier heard most days but some audio finally 1840 1/24, someday I'll get enough for a report. (Colyard, NJ)  
 +a fairly good signal at times from 2310 onwards 2/9 and on past 0100 2/10, though w/bad fading. Had a drama, possibly the FF version of "Mary Hartman." (Foxworth, NY)

+fair w/classical mx 0045 3/4. Again noted, fair, 0015 3/10 w/classical piano mx. Weak het from 1376 khz. (Connelly, MA)  
+Radio France fair w/man in FF 0113 4/27. (Connelly, MA)  
+good w/FF vocal, Tom Jones style, then man in FF 0050 5/19. (Connelly, MA)

- 1376 t FRANCE, Lille, audio here about 0600 10/3, too late for anything else. (Sherman, NH)  
+hetting St.-Pierre 1375 khz badly at 2222 10/19. St.-Pierre seemed to be on top most times when checked. (Eckman, PA)  
+There is some confusion in DX bulletins regarding ORTF programming here and on other channels around 0500-0600. On weekdays ORTF runs a set of programs for foreign workers in France; the schedule appears to be PP 0500-0515, AA 0515-0530, Slavic 0530-0540, SS 0540-0550, and Turkish 0550-0600. Noted w/that language sequence w/good signals 10/22 here and on 602, 674, 791, 836, 863, 944, 1205, 1277, 1349, 1376, 1403, all //. 1554 not // at that time. (Nelson, MA) (This past Sunday's paper says about 20% of Paris is foreigners, mostly Spanish, Portuguese, Arab, Italian, and Yugoslav. Hence, the need for this type of programming. ed)  
+strong carrier, weak talk 0748 12/21. Again noted w/male FF vocal hetted by St.-Pierre 1375 khz 2235 12/21. (Connelly, MA)  
+poor, bits of talk noted, mostly just a carrier wallowing in bad WFEA "Boogie Fever" slop 0448 4/28. (Connelly, MA)
- 1376 ? UNID, a very weak carrier heard here 2205 12/28, not well enough to get any audio. There was very spotty tentative reception from known Europe frequencies, and at this time we were getting fair and readable audio from Pyongyang, North Korea, on 2850 khz (who were in until about 2240 when local sunrise took over, this path is visible only about three weeks per year). There was no sign of St.-Pierre 1375 who are always in when Europeans are in, yet 1376 did not exhibit the very rapid deep fades that Pyongyang did. I was unable to get a DF on this signal as it was in for only a couple of minutes, but must feel that it was only Lille, going on the side of caution. 1475 and 1529 yielded nothing this night. (Foxworth, NY)
- 1385 SPAIN, Madrid, ECS11, Radio Centro very good 0012-0030 w/SS popular mx. ID at 0030 by man, certainly sounded stronger than listed 20 kw. (Nelson, MA)
- 1386 LIECHTENSTEIN. Radio Liechtenstein will be a 500 kw commercial station owned by Jean Frey, a Swiss publisher, who beat out German publishing king Axel Springer for the license. When the new frequency plan comes into effect, Radio Liechtenstein will operate here. For those interested in history, the British firm of Roditi International Corporation negotiated in 1937 for the Liechtenstein radio rights, with plans to broadcast ads to England, but the plan was cancelled when World War II broke out. (Foxworth, NY)
- 1394 ALBANIA, Tirana noted at sunset skip from 9/20 to 9/28 except 9/27 as early as 2245. SS program at 2300 w/ID "Habla Tirana" clearly heard most nights. (Eckman, PA)  
+in at fair level w/woman in Eastern language 2215 9/29, about 15 minutes before sunrise here. First TA signal noted in the evening, though about 2230 I was getting 1375 and 1376 about equal level. SB-620 separates them nicely, allows instant check of which one is up at any time. (Foxworth, NY)  
+w/woman in SS 2305 12/12, good level. (Connelly, MA)  
+w/trumpet IS fair, similar to 1457 khz strength 2230 12/22. (Connelly, MA)  
+fair to good w/SS program, male announcer, 2311 1/26. (Connelly, MA)
- 1394 ? UNID carrier noted 0235 3/1 seemingly too weak to Albania considering general band cx. Gone soon afterwards. (Eckman, PA)
- 1400 INDIA, Mysore, AIR is new here. AIR is switching from AM to FM in Delhi and Bombay this year, probably will do the same in Madras and Calcutta in 1976. (Hauser, IL)
- 1403 FRANCE, Brest, ORTF the best TA on the top of the band 0532 w/man in FF 9/23. (Nelson, MA)
- 1403 ? UNID, carrier found here w/bits of non-descript audio three nights in a row 2/5, 6, 7. The carrier is at its best 0625-0650, but 0700 is too

late for it. First noted putting a good het on 1400 jumble 2/5. The African here is supposed to be 24-hour, but have been unable to find any trace of it before 0600. Have been overlooking this one for years; have never gone after it before. (Martin, CO)

+African carrier again 0607-0618 2/11. Still can't extract any audio from this one. (Martin, CO)

+man and woman talking, sounded like Vernaculars, definitely not FF, looped east, good carrier, weak audio, 2230 2/15. Any ideas? (Colyard, NJ)  
(Conakry, Guinea, most likely. WRTH gives kind of a hokey schedule for them: s/on at 1230 (in the afternoon), s/off at 0830 (in the morning)  
+mostly just a carrier at fair level in WLLH splash. Fragments of audio surfaced, male voice noted during pauses in WLLH modulation, but never enough for an ID. 0005 3/10. (Connelly, MA)

1410

OMAN, Masirah Island, BBC World Service relay heard 6/30 w/talk in EE, program announcements, and time check for 1830, excellent signal. (Baker, SA)

1421

GERMANY-WEST, Saarbrucken very good and easily separable 0505 9/30 w/mx, talk. (Foxworth, NY)

+very strong IS and ID by man in GG 0430 10/2, pretty well killing 1420. There is also a carrier about 1 khz on the low side of 1420 during the evenings that I assume is a Latin American or a domestic spurious radiation. (Nelson, MA)

+man in GG speaking in low monotone as if trying not to wake someone up, gong then sounded, followed by female vocal group 0608 12/14. (Connelly, MA)

+assumed to be the one w/strong het 0218 3/1. No audio discernable. (Eckman, PA)

1425

GREENLAND, Thule, AFRS, 90% sure this is the station detected here 0952-1056 9/25. Alaskans in strong and several TA carriers noted earlier. Carrier detected w/BFO 0952, 0955 male talk faded up. 90% sure I caught a Thule mention and something like "...Forces...Radio." Checked everything to be sure it wasn't a spur and measured the DF on three different loops. Actual bearing is 16.25°. The 4 foot (110 cm) loop gave 14, the wedge 14, and the SM-2 gave 9°. Distinctive fade pattern w/high peak, slow drop off, then abrupt disappearance w/cycle repeating every 4 to 6 minutes. Finally lost it 1056. (Rittenhouse, CA)

+assumed to be the one w/EE talk by deep voiced man 0546 10/3. (Portzer, WA)

1439

LUXEMBOURG, Matnach, Radio Luxembourg heard here 8/17 at 2046 w/excellent signal. Comes in regularly. (Baker, SA)

+escaping me once again w/strong het and some audio but not enough to ID language, around 2311 10/19. (Eckman, PA)

+slow vocal mx, fair to good but fading down 0740 12/21. Very strong w/woman in GG 0725 12/22. (Connelly, MA)

+featuring the top hits of 1975 in review w/EE announcer. Interesting show at strong level often atop CFGO/WAAB 0142 1/6. (Connelly, MA)

+at poor to fair level w/WENE, WNJR, CFGO, WAAB sloop. Had EE teenybopper DJ show w/fast-talk announcer who rattled off effusive drivel about contests, rock stars, etc. 2333 2/24. (Connelly, MA)

+strong 0005 2/28 w/EE rock-and-roll mx. V05 Shampoo commercial 0006 giving a London mailing address by British accented announcer. Interestingly enough heard exact same ad on 609C // the next evening when Luxembourg was much poorer on 1439. Strong het accompanied signal. (Eckman, PA)

+absolutely the best reception ever from this one all evening of 2/29, which was 0040-0300 s/off 3/1 during very unusual cx. They were just blasting in here, popular mx show, some memory stuff (Glenn Miller, etc) and lots easier here than on 6090; enjoyable listening, remarkably fade-free. All the usual high-end Germans were really potent then, too. Wish someone would explain why all this good high end TA reception has been happening during active geomagnetic cx, w/K-indices of 4 and 5, as has been the case several times this season. (Foxworth, NY)

+nice level around 0100-0200 2/10 w/popular mx, some fading. (Foxworth, NY)

+fair as het, but audio difficult to extract 0040 3/4. (Connelly, MA)

+good w/old Lord Buckley comedy record (takeoff on a Bible reading) 0435 4/11. (Connelly, MA)

- 1448 ITALY, logged 0420 9/24 by #ing 845 khz. Group singing. (Schatz, FL)
- 1457 ALBANIA, Durres, Radio Tirana very strong 0408-0415 w/dance mx, brief announcement by man 0415 in a guttural language, perhaps GG or Bulgarian. Had Tirana Foreign Service IS 0430. Frequency measured as 1457.0044; this on 10/2. (Nelson, MA)  
 +fair w/woman in apparent Slavic language 2223, then familiar trumpet IS 2226 12/22. 4 hz SAH present. (Connelly, MA)  
 +was good 2227 1/10 w/woman speaking in unid language. 1394 khz was only poor to fair at the time. (Eckman, PA)  
 +heard w/Radio Peking relay w/East is Red 0400 2/28. Good signal. (Eckman, PA)  
 +noted on car radio w/a talk program, badly jamming CKRB/WOKO 0430 3/19. Had extremely strong carrier here w/second station underneath w/talk, possibly England, 0445 3/23. (Connelly, MA)
- 1457 ROMANIA: a special "vacation radio" (Feriensender) is operating at the Romanian resort of Mamaia, north of Constanza, with programmes in Rumanian, German, English, French and Russian 0700-1200, and again 1500-1700. (SCDX)
- 1457 ? UNID w/3.3 hz SAH. Woman in "Slavic" like language 0425 9/24. London likely the other but trying for Mali, reported here lately. (Schatz, FL)  
 +Re Schatz's unid; suspect this is Albania although Romania is a remote possibility. The 3.3 hz SAH could be between Libya and Albania, Romania and London, or Libya and Romania; all should have been on at that time. (Nelson, MA)
- 1466 MONACO, Monte Carlo IS starts 0439 on 8/23, alone on channel and strong. (Nelson, MA)  
 +noted several nights since 8/26 w/IS at 0440-0445 s/on in GG. Also noted 9/1 at 2400 s/off at excellent level. (Eckman, PA)  
 +TWR noted 9/18 to 9/28 at sunset as early as 2235. Usually has very good signal. EE program from 2300-2330. (Eckman, PA)  
 +noted w/tone test 0429 9/21, was into religion in GG 0500. Good. (Foxworth, NY)  
 +w/hymns in FF 0513 9/23. Should have stuck with it perhaps, but they were getting fadey, and I was tired. (Keleher, IN)  
 +strong tone test 0425-0428 9/24. 1.4 hz SAH w/it. (Schatz, FL)  
 +IS 0440 9/24, s/on 0445, mx 0446, S-9+. (Sherman, MN)  
 +in like a rock 0505-0510 10/6 w/GG talk by man and choral hymns. (Francis, TN)  
 +0500-0520 fairly good at times 10/21 w/mixture of organ mx and talking by a man. Could not ID language, signal was not good enough. Also noted 2250 10/21 with a woman talking. (Abraham, MI)  
 +TWR 10/22 2330-2400 poor to good at times, fading, unid language, 2330-2345 w/religious hymns. 2345 changed program to a different language, possibly AA, woman also announcing, heard Trans-World Radio in ID 2400. Tones at 2400 and then off. (Curtis, VT)  
 +w/excellent signal 10/24 w/ID "This is Monte Carlo. You are listening to Trans-World Radio. Central European time is midnight," then into EE religious program. (Ball, ON)  
 +tentative no more; best TA ID I ever taped 0515 10/25, "Hier ist Monte Carlo...in Deutsche Sprache...", then religious program w/sermons in GG. TA signals often strong but w/deep fades this evening. Also heard 2350 10/24 (about 5 1/2 hours before) w/program in strange language to s/off 2400, WRTH shedule says AA. (Keleher, IN)  
 +11/1 2340-2400 poor w/fading, woman singing religious mx, female talking in unid language, 0000 tones in groups of three. Carrier detectable as early as 2159. (Curtis, VT)  
 +12/13 2358 mx and unid language but heard tones and s/off at 2400. Fair. (Curtis, VT)  
 +preacher in EE 2253 12/21, strong. (Connelly, MA)  
 +religious, SS and AA 2330-2400 12/21, ID 2345 "Radio Transmundial" ID, very good level. (Colyard, NJ)  
 +noted well w/religion in EE 2153 1/3. Fair w/flutter-fading during aurora 2356 1/11; had female vocal. (Connelly, MA)  
 +strong w/mx, then EE ID 2300 1/26. (Connelly, MA)  
 +first time I even found audio on Monte Carlo here 2/11, taped three minutes of it at 0631, but can't detect anything there which would go to ID it. Heavy slop from 1470 khz Mexican covering it up. And the

carrier faded before 0700 (another new country getting away from me).  
(Martin, CO)

+the strongest high-band TA, much better than 1586 khz w/GG female rock vocal 2237 2/24. Good again w/EE religious program, man gave address in London 2325 2/24. (Connelly, MA)

+at poor level during mediocre TA cx and bad static. Had religious organ mx 2359 3/9. (Connelly, MA)

+strong w/apparent equipment test: musical box IS repeated for a long period and the carrier kept dropping out as if an overload relay or breaker was acting up 0442 3/23. Potent w/GG religious program (hymns, GG talk), S-9+20 0459 3/25. Heard on car radio. (Connelly, MA)

+good, better than 1554/1586 w/IS, then talk 0445 4/28. (Connelly, MA)

1466

? UNID, another open carrier too weak for Monte Carlo noted 0324 2/28. May have had audio but too weak to notice any. Monaco s/on at 0440 was very strong. (Eckman, PA)

1475

AUSTRIA, Wien, Austrian Radio has increased power of this outlet to 600 kw. This outlet airs the "Osterreich Regional" programme; in late evenings also the "Osterreich 2" programme. Reception reports are requested to: ORF, Abteilung Sendernetzplanung, 1136 Wien (Vienna), Austria. Lars Ryden says this provides a very powerful signal into Stockholm during darkness. (SCDX)

+noted on 8/26 0345-0358 w/great signal, slight to moderate fading, and no interference. Open carrier first noted, followed by 4-note IS with a female announcer giving ID after every other IS. (Jensen, MD)

+heard surprisingly well at 0355 9/6 w/IS. Woman said "Osterreich Regional" after every two IS's. GG talk 0401. First time I've ever heard this one. (Eckman, PA)

+noted 2235-2327 10/19 at various times. Good level w/popular mx on occasion (some US). Had been bothering me as I heard this 10/1 at sunset too but didn't think Wien was on this late. (Eckman, PA)

? +Osterreich Regional, GG, alpine mx w/woman announcer, many time announcements w/male announcer, 0455-0520 12/18, IS and ID 0500, heard Radio Moscow relay in RR, I believe, peaking above Austria at times w/woman, possibly w/nx. Have heard this squeaky voiced woman on SW bands.

Ukraine coming into sunrise at this time. Have it on tape. (Colyard, NJ)

t +decided to try for this after noting Monaco-1466 at good level. Surfaced 0506 1/16 w/jazzy mx, announcements by man in GG. Became fadey 0515; fair again 0525 w/"Yours" instrumental, then another fade. Soon only readable for about 2 seconds out of 10. May have been their IS 0529 but couldn't get all of it. Then man talking, perhaps nx, then gone. (Keleher, IN)

+tentatively the man in a Germanic-sounding language noted here at poor to fair level in bad WLAM/CFOX/WSAR/CHRD slop 0402 2/25. (Connelly, MA)

+good w/man in GG giving nx 0004 2/28. (Eckman, PA)

+w/man in GG, strong carrier, weak audio 0440 3/23. (Connelly, MA)

1475

t DAHOMEY, Cotonou is believed to be the station w/open carrier at 0502 6/25. Ran tone test until about 0511 when a drum-like IS began. Drum and guitar-like instrument heard 0514 but no speech was discernable. Had a perfect West African bearing. Will regard this as tentative until I get an ID or if someone can ID the IS. (Eckman, PA)

1475

DIEGO GARCIA ISLAND: the American Forces Radio Service has been heard here and not on 1470 khz. The power is 250 w according to the station announcements. Diego Garcia is the site for a new U.S. Naval Communications Station and is not known as a choice location for a tour of duty -- nothing but sand, cement, and gravel. (SCDX)

1493

? UNID open carrier at fair level 0440 4/11. (Connelly a, MA)

1500

NORTHERN IRELAND: a Derry pirate station of the "provisional" ilk, is heard with mx, and requests. (Hauser, IL)

1502

POLAND, Stargard Szczecinski. It must have been very good to east Europe 10/3 (GMT AM) as Poland was topping the jumble here at 0509 with distinctive woman's voice, quite clear and steady w/other audios in the background. By 0600 this frequency is all Spain. (Foxworth, NY)

t +Radio Warsaw probably the one here w/strong level w/classical mx (piano) followed by alternating man and woman announcers, then piano mx w/male

vocal accompaniment 0048 12/23. (Connelly, MA)  
+definite here, male and female announcers in GG, some mx, Poland mentioned many times, 0530-0605 1/5. Piano, Chopin, IS (5 times) at 0600 w/Polish ID and mx. Also heard weak 2225 1/10. (Colyard, NJ)  
+this should be the unid "w/sedate mx." Heard again 0710 3/1 and WRTH says Poland here w/classical service then; agrees w/signal observations. (Foxworth, NY)

1502 <sup>t</sup> SENEGAL, Tambacounda likely the one on 1502.008 0600 9/24. Too late and drifts for Poland. (Schatz, FL)

1502 SPAIN. Jumble of signals here always heard well around 0600 though seldom able to distinguish any one station for long. Carriers here are often heard as well as 1500 (WDEE/KSTP) are heard (after WTOP s/off) and sometimes louder. Usually a mixture of hets from 20 to over 100 hz destroys any audio except on rare occasions. Usually note no change at or after 0600 either. This channel is always up higher than 1484 or 1493 khz are. When 1502 is in well, can hear something on 1475 also. (Foxworth, NY)

+one of the best receptions ever on this frequency 1/12 around 0700 as at least three separate stations could be heard and audio from them trying to overpower the hets. Signals were almost in the clear as auroral cx nearly wiped out WDEE and KSTP. No IDs as I tuned elsewhere at the top of the hour. This was one of the best TA signals of the morning. (Foxworth, NY)

1502 <sup>?</sup> UNID, station here w/sedate mx 0100 2/10 running across the hour. WTOP being on didn't help; who runs this late here? (Foxworth, NY)  
+man and woman announcer noted w/a rock mx show. Played "Evil Woman" by ELO 2355 3/9; too much WTOP for a definite ID. (Connelly, MA)  
+a signal here 0645 3/15 and likewise one on 1578. All the Europeans are out by this late hour and think these may be West Africans. 1578 by the way was two carriers w/approximately 250 hz het on the frequency. Some weak audio, unreadable on both. (Foxworth, NY)

1513.75 BELGIUM: Veltem moved from 1511 to 1513.75 on 4/18/75, // to 1594. (MWN)

1520 SPAIN. At least two distinct Spanish stations were heard clearly behind WKBW 0702 and on past 0725 1/12. Whole strings of words were readable when WKBW would fade, and there was the characteristic 30 to 50 hz het that marks receptions such as this. The same effect was also discernable, though much less so, on 1570 at same time. Suspect WKBW was on their auxiliary transmitter but was unable to ID any of the stations. (Foxworth, NY)

1525 CHINA, Urumqi heard here w/fair signal for the first time this season (at least for me) 1/14 2216-2310. Severe sideband splash from WKBW but none from 1530. In fact, Vatican was quite a bit stronger than 1530 domestics at the time. Fairly clear "East is Red" chime IS at 2300 for positive ID. Other than that readability was poor to fair. (Eckman, PA)  
+heard here w/fair signal 2329-2355 2/7 and again 2247 fade-in to 2355 s/off 2/8 w/good to very good signal. 2/7 reception not as good but did hear "Internationale" s/off 2354 actually on telephone from Foxworth after alerting him. 2/8 was much better providing my best tape of the "East is Red" IS 2300-2302 w/ID by male and female in RR. Seems to be favorable pattern change at 2300 as was poor until 2255 when carrier was cut but back on at exceptional level 2300 2/8. Was a bit poorer 2355 s/off w/Internationale again. Program basically w/a woman and brief periods of CC mx around 2330-2345. (Eckman, PA)  
+Eckman called w/tip that China was in and heard here at 2340 2/7 w/woman in RR on through until 2355 s/off w/Internationale. Only a fair signal but seemed just about alone on frequency. I had checked 1525 khz at 2320 w/negative results. Tried again 2/8 and they were in better at 2310 and heard on receiver and loop in the basement even. Woman in RR again, some mx heard at times after 2230, peaked at S-7 but again the very deep rapid fade. Faded around 2345 so did not monitor s/off. Checked the frequency around 0030 2/9 and a very weak carrier on 1525 and a slightly better one on 1524.6 which is probably Costa Rica though local noise level too great to tell. I have heard accounts of Massachusetts DXers hearing China as early as 3 PM local time using beverages -- how about some details, fellows? (Foxworth, NY)

- +at fair level w/woman in RR. Fast SAH (from the USSR as per Nelson) and low audible het (from a Latin American) present 2320 2/6. (Connelly, MA)
- +apparently the one w/poor carrier 2311-2330 2/28. Woman announcer discernable at 2325 but couldn't ID language. (Eckman, PA)
- +there has been occasional carrier noted here around 2330 some days in early March (checked only on weekends) but no good signal. This one is best, too, when geomagnetic cx are "active" or "unsettled." (Foxworth, NY)
- 1525 USSR, RR station noted w/fair signal 0035 fade-in to 0055 fade-out 6/13. No IS or ID noted this date. Station w/similar programming (mostly operatic and light classical mx, man and woman announcers) noted with stronger signal from tune-in 0028 6/16. Vibraphone-type IS noted 0030 several times, not that of Radio Peking; fade-out 0050 this day. Heard only on Traveling Wave antenna, not even a trace of carrier on the loop. Bill Bailey noted almost exactly same reception on his Traveling Wave antenna on the 16th. He made a rather good tape of a RR station on the channel 5/23; it contained the same IS at 0030 that we noted 6/16, plus a woman giving what sounded like a "...it Pekin" ID after the IS. At first we believed this was Sinkiang with a new IS which would have been an unprecedented reception as it would have been more than three hours past the time of effective ionospheric dawn on the north great circle path. After repeated audio comb filtering of Bill's tape of the IS, we got a copy that was clear enough to permit comparison by simultaneous replay w/the present Mayak service IS recorded recently by Bill from SW. We are all agreed that the IS on 1525 is that of the Russian but are at a loss to account for the phrase we initially all took to be a "Pekin" ID. The latest information from Ole Alm, Arctic's USSR specialist, is that the Mayak transmitters are in the Moscow and Kiev areas. The corresponding calculated dawn fade times (for July 1) are 2345 and 0058 respectively. Bill had a reception until 0055 on 7/8 which suggests that we have probably been hearing from the Ukrainian Mayak station. There is also a unid Latin American noted most nights from about 0045 fade-in; the frequency drifts around 1524.46 and a het is often audible between it and the Mayak station until the latter fades out. (Nelson, MA)
- 1525 ? UNID, possibly RR woman, s/off w/anthem 2355, fair signal w.mucho slop, 2340-2355 2/7. (Colyard, NJ) (Sounds like China. ed)
- 1529 VATICAN, Vatican City noted 12/15 0624-0633 w/ID of chimes, then tolling bells, then Latin/Italian phrase used on SW, ID, then into mess. Signal fair w/fluttering fades and no interference from others. (Jensen, MD)
- +tentative 1r AA, not listed as such in '74 WRTH, but little else likely here. Good level 2151 1/3. (Connelly, MA) (The '75 WRTH says they have AA beginning at 2145. ed)
- +good signal, no interference, classical mx, male and female announcers, Italian, ID 0700, definitely Vatican, 0650-0710 1/5. Also heard weak 2240 1/10. (Colyard, NJ)
- +heard here 1/5 0700. First thought it was a tone test on 1530, but careful tuning resulted in a strong carrier on 1529. Had religious mx and ID on the hour as "Radio Vatican" in unid language. (Nall, KY)
- +turns out this was the one heard fairly well w/man and woman speaking 2215-2230 1/10, were out by 2300, lots of fading but in the clear w/no sign of anything on 1530 until 2250. Talked to Bill Bailey and he was getting them well, too. There was also an interesting signal on 1546 at this time w/a lot of fading. Vatican was heard again 1/12 around 0645 fairly well and again w/nothing on 1530 so that this may have been confused w/a domestic by some. Had flowery mx, sounded like harps, w/a religious feeling to it. (Foxworth, NY)
- +logged here from 2226-2230 1/10 w/amazingly potent signal. ID taped 2229 followed by short segment of mx, then carrier out. Appeared to be back on 2240 w/talk. Het was no problem as audio was very good. (Eckman, PA)
- +potent w/background mx 0017; clear IDs in EE, Italian, and FF 0028, followed by chimes, 1/20. This operation is later than shown in the WRTH. (Connelly, MA)
- +at fair level w/orchestra mx 2238 2/24. (Connelly, MA)
- +fair w/male vocal 0034 3/4. Fair w/classical mx, stronger than nearly vacant 1530, but splashed by WPTR-1540 2335 3/9. (Connelly, MA)
- +poor to fair in WPTR splash, het, fragmentary classical mx 0010 4/11. (Connelly a, MA)

- +Radio Vatican poor to fair w/talk interspersed w/mx, more slop from WPTR than WCKY 0102-0106 5/19. (Connelly, MA)
- 1529 ? UNID, Vatican or Madeira Islands w/man talking in a Romance language at fair level 2220 12/22. (Connelly, MA)
- 1538 AFARS ET ISSAS: Radio Djibouti has been here at 1800 with news in either Afars or Issas followed by local Somali-type chants until past 1930. (SCDX)
- 1538 GERMANY-WEST, Mainflingen, DLF noted w/nx in GG w/male announcer 0404 8/26. Signal peaked briefly for several minutes. (Jensen, MD)
- +likely here. Strong carrier in brutal WPTR splash, man talking, too much interference to determine language 0735 12/21. (Connelly, MA)
- +was very good w/mx in passing 2224 1/10. Recheck 2245 revealed much weaker signal. (Eckman, PA)
- +here 1/17 0305 w/strong carrier and good audio. Heard march mx or instrumental-type mx and man talking in GG. (Nall, KY)
- +strong w/light mx and GG talk 0208 onwards on 3/1. Strong het also. (Eckman, PA)
- +topping WPTR buckshot w/good signal, old-style female/male duet vocal 0337 4/11. (Connelly a, MA)
- +jamming WRCP/WPTR w/wicked het at local sunset on car receiver 0030 5/20. 1586 khz strong also, but low band (764, 818, et al) dead. (Connelly, MA)
- 1540 INTERNATIONAL WATERS, Voice of Peace sailed into Haifa harbor 6/28/75. This followed their unsuccessful attempt to sail through the Suez Canal. Dutch newspaper reports claim Nathan intends to sell the ship and build schools in Israel where Jewish and Arab children may be educated together. However, a postcard from engineer Bob Noakes to a friend of mine says they are raising funds for a return to the air. (Magne, PA)
- +The Peace Ship has left Haifa port with fuel for five months on board. "The Voice of Peace" resumed broadcasting on 8/1 and operates daily 0300-2300. The station is now commercial. Addresses of Voice of Peace: P.O. Box 4399, Tel Aviv, Israel, or P.O. Box 2374, Nicosia, Cyprus. Reception reports are requested. (SCDX)
- +Independent Broadcast Authority of Great Britain Chief Engineer says VOP again active for past two weeks with usual popular mx and lively fare. Nathan tried to sail through Suez Canal and was not allowed passage by the Egyptians. He finally gave up waiting and sailed back to the broadcasting location. Reception excellent along the Israeli coast, but suffers a het from West German-1538 nights. Reportedly "extremely popular" with Israeli youth. (Magne, PA) Caversham (BBC Monitoring Service receiver site, ed) is again hearing that ship in the Mediterranean, around 2000 on 1540.
- +Voice of Peace closes down at 2300. Excellent signal here in South Africa. (Baker, SA)
- +Abie Nathan has turned down an offer to buy his "Voice of Peace" station. The offer was made by the Arabs via a British ship broker. (SCDX)
- +Abie Nathan's off-shore "Voice of Peace" is now broadcasting 24 hours a day on 1540 khz. (SCDX)
- +heard 8/17 at 2045 w/excellent signal. Heard here regularly w/good signal. (Baker, SA)
- +2200 1/22, all-night w/rock and roll mx and oldies in EE. (Wooten, IT)
- 1546 GREAT BRITAIN, London, Capital Radio was noted here 8/20 at 2049 w/popular mx and phone-in requests. Excellent signal. (Baker, SA)
- 1546 USSR, Vinnitsa listed, Radio Moscow Foreign Service logged here 2205-2235 12/4. Interesting cx as other TAs were poor at this time. I've only logged this one during strange cx, generally at the onset of a geomagnetic disturbance. Why would a relatively high latitude path signal be enhanced at a time like this rather than be knocked out. Moscow FS IS taped clearly at 2230. (Eckman, PA)
- ? +perhaps was the one here 0609-0700 1/4. Little if any program material was heard w/the exception of time pips at 0700. Seems quite late for the USSR but not impossible. (Eckman, PA)
- +once again in w/good signal 2230 1/10. Caught last few bars of Moscow FS IS to leave no doubt of ID. S/off appears to be at 2255. (Eckman, PA)
- +once again logged w/pretty decent signal 1/14 2220-2235. Readability is difficult on this one but Moscow FS IS came through quite well at 2230. Perhaps there is a correlation between this type reception and that of

Urumchi-1525 as I've noted both reported in similar situations in the first 2 Foreign Logs. (Eckman, PA)

+Radio Moscow EB Service to Africa heard 2227 1/22 w/"People and Events" program. (Wooten, IT)

+Comparatively good strength through severe sideband interference 1/31 from 2250 tune-in until 2300 s/off. They were carrying home service type programming rather than FS which has been reported earlier. Eckman reports Radio Moscow IS at 2230 so conceivably the 2230-2300 transmission is a relay of the Home Service for Soviets in other parts of Europe. (Stanbury, ON)

1546

? UNID, fair carrier 0150 6/16 w/some garbled audio but not enough to ID the language. (Nelson, MA)

+carrier 0412 1/3. Several possibilities, all rare. (Sherman, MN)

+weak female announcer, could not get language through slop 2255 1/10. (Colyard, NJ)

+good signal w/light mx noted 0344 1/11. Still in 0400 but could make nothing of any announcements. A slim possibility might be the BBC local here. (Eckman, PA)

+open carrier, no audio heard 0035 2/8. (Colyard, NJ)

+USSR possible, carrier of fair strength in WPTR slop 0335 4/11. Later noted w/classical mx, fast SAH (about 5 hz) 0445 4/11. (Connelly, MA)

1554

FRANCE, Nice, local quality 0145 6/16 w/popular mx in FF, low pitched audio het from carrier on low side coming from south, presumably a Latin American. (Nelson, MA)

+noted many nights during September and several times in August during the 0300-0430 period. Most times in September it was very good. Other high-banders - 1538, 1586, 1602 - were good on 8/26 and many nights thereafter. 1586 khz also noted in July and August on several occasions. (Eckman, PA)

+in very well 0420 9/9 w/mx and comedy. Only 30% modulated yet very readable. (Schatz, FL)

+ORTF in FF w/variety mx interspersed by talk. Mentioned Verdun, Nice and other French cities, this 0431 9/23. Announcer liked to say "Voilà" a lot. News 0500, partly a gal, and back to mx 0510. (Keleher, IN)

+in nicely 10/11 0513, good audio w/only slight fading, minor het from 1550, instrumental and vocal mx w/several time checks, 0530 ID "Inter-France, soix-heures trente." Signal peaked 0520-0530. fade-out by 0545. My first TA! (Ball, ON)

+11/3 0025-0130 poor FF instrumental mx, fading, interview in FF, gone at 0155. (Curtis, VT)

+0340 10/21 man in FF poor. (Abraham, MI)

+w/"El Condor Pasa" style folk/classical flute mx, then man in fast FF. Potent (S-9+15db), better than 1586 at 0321 on 12/9. At potent level, shallow modulation w/man-woman dialogue (dramatic presentation) followed by femal vocal rendition of Beatles' song "Let It Be" 2345 12/12. (Connelly, MA)

+fair, FF talk, man and woman 0732 12/21. (Connelly, MA)

+FF announcer, popular mx, Volare heard, only TA this evening, good signal 0035 1/12. (Colyard, NJ)

+fair to good w/jazz mx (scat vocal), then phone-in show, followed by instrumental of "Promises Promises" 0053 1/12 whence strong peaks noted. Erratic fading pattern, some WPTR/WQXR slop. (Connelly, MA)

+w/orchestral mx, fair level badly slopped by WPTR, WQXR and CKLM 0623 1/12. TA cx mediocre tonight. (Connelly, MA)

+Band above 1500 khz suddenly came alive around 0600 1/4. Nice was excellent w/FF announcer and mx from 0600-0700. However, there was definitely something under them occasionally equalling Nice's signal. Taped portions from 0600-0630 when other signal apparently faded out but only some vocal mx came up on peaks. No announcements readable. No SAH noted on the S-meter but the USSR seems to be right on frequency as Nice is per the EBU. Very wierd cx this morning w/entire high band quite good 0600-0700. (Eckman, PA)

+excellent 2/27 0330-0400 w/FF talk and mx. Four pips at 0400 followed by "IS" that I always hear on the hour on this one. (Eckman, PA)

+stronger than 1586 w/slow vocal, apparently attenuation greater on northerly paths 0453 3/1. Similar semi-auroral cx 3/3 saw Nice much better than Langenberg, considerable fading on both signals 0240. Low band also showed auroral effects; the only readable TAs were from Iberia and North Africa. 845 Italy present only as a carrier w/BFO on. (Connelly, MA)

+fair w/man in FF 0532 3/19. Strong w/female vocal, show tune/light opera style, FF teletalk followed 0435 3/23. (Connelly, MA)  
+good to excellent w/female vocal, weak high side het 0331 4/11. Again noted, excellent strength (best TA at the time), man in FF 0443 4/11. (Connelly a, MA)  
+had strong carrier, stronger than 1586 khz, but weak modulation compared to the German, Nice potent w/time pips, man in FF, 0300 5/20. (Connelly, MA)

1554 **GABON**, Libreville fair to good 2255-2320 11/4 w/ORF absent due to highly auroral cx. Man speaking in FF sounded like a political speech. My attention was drawn to this station by the frequency: 1554.0006, whereas the Frenchman has "perfect" frequency control. IDed by DF and SW//. (Nelson, MA)

+someone turned on their carrier at 0425 6/25 and proceeded to run a tone test through at least 0429 but I was unable to get an ID due to CBE-1550 splash. Carrier remained in past 0500 and had a good west African bearing. Neither 1475 nor 1554 khz were in on 6/26. (Eckman, PA)

1554 **UNID** FF, detected weak carrier between CBE and WQXR 2330 9/6. FF sounded slower and more precise than Canadian FF. Suspect France, but no positive ID. (Jensen, MD)

1562 **SWITZERLAND**, Beromünster likely here w/soft mx, poor to fair 0613 12/23. (Connelly, MA)

+fair w/man in GG 0531 3/19. (Connelly, MA)

**1570 MALTA**: The Deutsche Welle relay here is 600 kw now. (MWN, June)

**1578 ITALY**, Genova alone 0446 9/24 w/man in Italian between classical mx. Was // to 1331 khz. (Schatz, FL)

1578 **PORTUGAL**, Porto, CSB5 good w/popular records and man in PP 0639-0649. Earlier in the morning it is easy to confuse Porto and Italy; latter however has perfect frequency control whereas Porto can be as much as 3 Hz off. (Nelson, MA)

+two stations here, not sure which was which. One w/talk by a man, other w/vocal mx. 0615 12/23, neither strong. (Connelly, MA)

+good w/mush mx 2148 1/3. (Connelly, MA)

1578 **UNID**, weak audio, could not pull in 2310 1/10. (Colyard, NJ)

**1586 GERMANY-WEST**, Langenberg good w/waltz mx 0143 6/16. Excellent 7/8 0113 tune-in to final dawn-induced fade into noise at 0323. (Nelson, MA)

+strongest signal of summer season noted on 8/13; strip chart recording shows a peak 52 db above the local noise level that night at 0225. (Nelson, MA)

+at surprising strength 0409 9/23 w/semi-classical mx, ID mentioned WDR 0415. Noted several nights following. They seem to give IDs every 15 minutes during the evening program. (Keleher, IN)

+seemed off until about 0500 10/3. Not heard before but good after. Don't suppose they'll have a regular silent period? (Sherman, MN)

+w/opera S-9+10 peaks, good but fadey 0727 12/21. Potent and steady S9+30 w/GG Christmas mx 0721 12/22. (Connelly, MA)

+in nicely 12/22 0715-0730 w/light mx 0730 GG ID, "Hier ist...WDR," into news, began to fade after 0730, audio gone by 0740. (Ball, ON)

+amazingly strong 0440 12/31 w/lively instrumental mx. At 0455 heard "In allen guten Stunden" IS (means "in all good hours") at the beginning of the Erste Program. The IS's, found in WRTH, are a best bet for an ID if you're wondering if someone you're hearing is really a TA. The NDR IS can also be heard on 1586 at times; sounds like Brahm's Lullaby. (Keleher, IN)

+as usual good signal 1/5, 1/7, and 2230 1/10. (Colyard, NJ)

+potent w/show tunes on car radio 0340 12/31. Uptempo movie/TV show type mx, time pips, nx in GG w/male announcer, items about Arab countries; at potent level 0100 1/6. At fair level, very fadey in auroral disturbance 2350 1/11. Played "Godfather" theme. (Connelly, MA)

+good, S-9+25 peaks w/Herb Alpert style mx, mostly instrumental w/occasional female voice-as-instrument "la-la-la's," then man in GG and a Neil Diamond song 0621 1/17. Again noted: man in GG good but fadey 0505 1/19. (Connelly, MA)

+fair to good w/light mx in WQQW splash 0455 2/3. (Connelly, MA)

- +greatly surprised to find the GG here 2/5 0621. Have never found this station before any later in the winter than Christmas week, 1969, and I have been inclined to believe that Europe is virtually impossible this far west in January-February-March. Signal in S-9 area and must have been better 30 or 40 minutes earlier. It looped to northern Europe and program fare was instrumental mx. It was a high frequency opening for there was no trace of Protugal-665. (Martin, CO)
- +taped about 6 minutes of mx here, 2 selections, S-9 level until I caught the usual lady announcer in GG about 0645. (Martin, CO)
- +at good level w/male GG vocal 2218 2/15. (Connelly, MA)
- +at fair level w/heavy WQQW slop. Program was chorale mx more of a pop style than classical or religious 2316 2/24. (Connelly, MA)
- +excellent 0205 3/1 //1602 (also excellent signal) w/light mx. Seems to break away from 1602 on the hour for nx but not positive. (Eckman, PA)
- +fair to good but fadey w/jazz instrumental of "More" (theme from Mondo Cane) 0037 3/4. Noted w/extremely erratic fast flutter fading. Male operatic vocal fading between strong (S-9-20) and nearly inaudible 2333 3/9. (Connelly, MA)
- +excellent, local-like signal; had GG rock and roll, then Kenny Ball/Village Stompers type popular jazz, then woman in GG 0527-0530 3/19. LOUD again w/"I d Love You to Love Me" by Lobo, GG talk, then big-band jazz 0435 3/23. (Connelly, MA)
- +excellent (loud) GG pop-rock vocals 0330 4/11. (Connelly a, MA)
- +fair w/man in GG 0105 4/27. (Connelly, MA)
- +hitting good peaks but w/deep fades. GG talk followed by soft piano mx, considerable WQQW splash 0100 5/19. Peaking up well, fading erratically w/up tempo semi-classical piano mx, then male GG vocal 0250 5/20. (Connelly, MA)

1594 ? UNID, carrier w/fast SAH here during good high-band TA opening 0500 3/25. (Connelly, MA)

- 1602 GERMANY-WEST, Munich-Ismaning, good signal 0022 w/soft popular mx and male announcer in GG 6/16; 22 db stronger than 1586 khz at the time which is rather unusual. Weaker 0143 w/US popular mx. Care should be taken w/IDs on this channel since the latest EBU reports there is now a Belgian on this channel also. (Nelson, MA)
- +noted w/very strong signal 8/26 0350-0402 while waiting for 1475 khz sign on. Instrumental mx (not classical), 4 pips prior to the hour, then ID w/nx in GG by male announcer. (Jensen, MD)
  - +strong het, some GG heard through slop. (Colyard, NJ)
  - +peaking to S-9 w/male vocal in considerable CHNR/WWRL/WUNR slop 0323 12/9. Also good w/vocal mx S-9 2236 12/12. (Connelly, MA)
  - +fair w/choral-group vocal arrangement of Strauss Waltz //1586 0017 12/23. (Connelly, MA)
  - +Nachrichten and light mx, Louis Armstrong at 0023, first time I've been able to pull in through slop; fair signal, locals down, 0000-0030 2/8. (Colyard, NJ)
  - +fair overall copy, strong carrier but horrendous WWRL splash; program on Munich w/man in GG 0503 2/27. (Connelly, MA)
  - +best of the season, as good as WWRL here 0200 3/1; no trouble separating them. (Foxworth, NY)
  - +Bayerischer Rundfunk equalling awesome signal of 1586 khz w/organ mx, man in GG mentioning Bayerischer Rundfunk, then uptempo mx, more talk, then guitar mx 0430 3/23. Program was not //1586. This was unquestionable the best reception of this one for the 1975-1976 winter DX season. (Connelly, MA)
  - +fair w/time pips, then GG talk in bad WUNR/WWRL slop 0000 4/11. (Connelly a, MA)



ANGOLA, as a result of heavy fighting in Angola a number of stations have been silenced. As of August 4, 1975 Radio Clube de Malange, Radio Clube de Cuanza Sul and Radio Clube de Mexico were all off the air. Radio Ecclesia was operational on one MW frequency only. Emissora Official closes at 2300 on 701 khz and 2400 on 1088 khz. (SCDX)

Aircraft bombed Emissora Official de Angola's transmitter site 10/10, which returned to the air a short time later but with reduced number of transmitters, viz. 701 and 1367 khz. English and French programs are dropped. Station is using facilities of former Radio Clube de Angola and Radio Ecclesia. (SCDX)  
Radio Clube da Huila and Radio Commercial de Angola merge in Radio Popular de Angola, operating 1313 and 1529 khz, 0500-2300. Sa da Bandeira is renamed Lubango. (SCDX)

Emissora Official de Angola is returning to normal operation with 1088 khz, 0500-2400, 701 khz, 1700-2400, 1367 khz, 0500-1700. (SCDX)

BRUNEI, is in the process of ordering four, 100 kw medium wave transmitters, which will probably be used in pairs, i.e. as two 200 kw transmitters. (SWNS)

CHANNEL ISLANDS, decision on a MW station is expected late 1975 or early 1976. There is apathy toward Local Radio... more interested in Color TV. (MWN)

CZECHOSLOVAKIA, frequency of 1232 khz is now on 24-hour schedule (began April 2, 1975). One of our Eastern European friends says that there is no station on 1214 khz and that since April 4th, the Topolna LW station is off the air for reconstruction. (MWN)

Power increases are in process for Topolna-272, Prague-638, Nitra-1016, Bratislava-1097, Prague FS-1286 (1500 kw,) Presov-701, Kosice-1520 (600 kw,) Bystrica-701, Brno-953 (400 kw.) (MWN)

DAHOMEY, Republic Dahomey changed name to People's Republic of Benin on November 30, 1975. (SCDX)

EGYPT, various news reports around September 11 mention that President Sadat has shut down the "Palestinian Radio Station" in Egypt (actually a program over government facilities) due to the allegedly false assassination plot story it propagated. (Hauser, 1L)

FRANCE, these stations have left the air since April 1, 1976, Paris-1070, Lyons-1241, Rouen-1241 and 1403, Limoges-1349, Bordeaux-1349, Nimes-1594, and low power relays at Caan-1484, Tours-1493, St. Brieuc, Brest, Strasbourg-1493. New France Interests, Bastia-1070 and Ajaccio-1160, both in Corsica. Frequency changes, Nice-1241 to 1349, Brest-1241 to 1070, Grenoble-1349 to 1070, Grenoble-1484 to 1403, Toulouse-1349 to 1241, Montpellier-1403 to 1070, Besancon and Dijon-1484 to 1403, maybe some power increases involved. France Inter stations Allouis-164, and Nice-1554, both 24 hours plus Bayonne-0539, Brest, Grenoble, Montpellier and Bastia on 1070, Strasbourg and Ajaccio on 1160, Lille, Marseilles, Nancy and Toulouse on 1241 plus Toulon-1594 and Perpignan-1484. There are no Regional programs now. France Culture, Lyons-602, Marseilles-674, Rennes-710, Limoges-791, Nancy-836, Paris-674, Bordeaux-1205, Brest, Clermont-Ferrand, Pau, Bastia, Besancon, Dijon, Grenoble-1403 and Ajaccio and Bayonne on 1493. These stations sign off at 0000. (MWN)  
Radio France is to construct a synchronized relay of the longwave France Inter transmitter. Will be near the south coast of France where reception of present station is very weak. (MWN)

Allouis-164 is now 2000 kw-D/600 kw-N. Rennes-1241 is now off. All regional programs are now on France Culture network (mostly on former France-Inter station.) Toulouse-1241 (ex-1349) is now 100 kw. Power of both transmitters in Corsica is 8 kw. All France-Culture stations are now 300 kw (1349, 1403, 1493 excepted.) Marseilles-674 is now 150 kw. (MWN)

the GAMBIA, according to the publication Africa, the Marconi Communications Systems has won a contract for two MW transmitters and associated equipment. These two transmitters will serve the entire country. The transmitters will be paired--the first pair will transmit inland and cover about 320 km. At Basse, 320 km up-river, the signal will be received and retransmitted to cover the rest of the country. The transmitters will be medium powered and directive-antennas will be employed. Target date and frequencies yet unknown. (SCDX)

GERMANY-WEST, DLF-1538 is now 700 kw, Bad-Durrheim-548, 100 kw-D/5 kw-N, Ravensburg-755, 100 kw-D/5 kw-N, SWF Wolfheim-1016, 300 kw-D/600 kw-N. (MWN)  
NDR-971 (5 kw) in Goettingen has been taken out of service. (MWN, April)

GERMANY-EAST, R. DDR-1 is now broadcast from four different locations on 557 khz and 629 khz. On 557, Kevla (NW of Erfurt) and Rostock, and on 629, Greifswald and Suhl. Suhl on 1502 now aims the "Berliner Rundfunk" program. (MWN, April)

GREAT BRITAIN, regular LBC and Capital new frequencies (1151 and 1546) began on March 3rd. The contract for IBA Reading was awarded to Radio Kennet, which has a strong University backing. Transmitter for MW is at Island Road, near Manor Farm. The board is headed by Sir John Colville, a prominent figure in banking, and he was private secretary to the late Sir Winston Churchill. LBC is all news 0600-1930 and then continuous light and classical music. We hear that BBC Radio Bristol is to move from 1546, but no new channel is known. Both Radio Merseyside and Radio City are on beams that give a null to the north--noted in Crosby and Formby--this is to "Protect" Manx Radio for political or tactical reasons. Roy Patrick says that new transmitter site at Burnaston (R. Derby) is complete and power supply has been connected. A new mast is to be built 100 yards from the old temporary site. IBA has agreed to waive its rental fee of £168,000 from LBC for 9 months until Sept. plus restructuring of programs to reduce running costs, hopes to continue 24-hour schedule with music throughout the night.

IBA stations due in 1975:

Plymouth (Plymouth Sound)	1151 khz	500 watts	ND (antenna)
Nottingham (Radio Trent)	998	250	DA
Teeside (Sound Broadcasting Corp.)	1169	1000	ND
Bradford (Bradford Community Radio)	1277	300	DA
Portsmouth (Victory Radio)	1169	800	ND
Ipswich (Radio Orwell)	1169	500	ND
Wolverhampton (Beacon Broadcasting)	989	300	ND
Belfast Community Radio Service	1025	1000	DA
Reading (Radio Kennet)	1430	700	ND

Plymouth Sound, extended its schedule to 0600-2400.

Radio Trent, opened 7/3/75, serving the Nottingham area. schedule 0600-2400 (0700 Sundays). Address, Radio Trent, 29/31 Castle Gate, Nottingham, NG1 7AT. Reports to C.E., G.E. Woodward. MW, 998, Trowell transmitter site is shared with BBC, two short, phased masts, 150 feet high, signal combining done by BBC.

Radio Tees, opened 6/24/75, serving Cleveland, South Durham, and North Yorks. Address, Radio Tees, 74 Dovecot Street, Stockton on Tees, Cleveland. Schedule 0600 to 2400 (0700 Sundays), off 0100 Saturdays and 2200 Sundays. MW, 1169, North Stockton transmitter site shared with BBC.

Victory Radio, Portsmouth-1169, primary coverage circular, over local area passing through Cowes, secondary covering just beyond Southampton. Opened 10/14/75 on 1169. Address, P.O. Box 257, Fratton Road, Portsmouth, Hants, PO1 5RT. Schedule 0600-2400, Sundays 0700-2200.

Pennine Radio, Bradford, schedule 0600-0100. 35 staff and 5 presenters. Reports to C.E., P.O. Box 235, Penine House, Forster Square, Bradford, West Yorks, BD1 5NP. MW-1277, transmitter site Tyersal Lane. Coverage is for the Bradfords and Leeds area. The first tests were 7/13 and 15. There are no signs of further tests up to 8/30/75, usual pattern is for them to begin approximately 3 weeks beforehand. Opened 9/16/75, schedule is 0600-0100.

Radio Orwell, opened 10/28/75 on 1169. Address is IPI House, Lloyds Ave., Ipswich IPI 3HU.

Radio Kennet, Reading, has been granted planning permission to set up their studios at The Filberts, a Berkshire County Council Storage Base in Bath Rd., Theale. This will be the studio and office location. Opening possibly early 1976. Financial backing from The Sun group.

Downtown Radio 293, will be the slogan for Belfast ILR. No tests yet on 1025. Address is Community Radio Services Ltd., Rademon, Crossgar, Downpatrick, Co. Down Northern Ireland. Studios are being built at Newtownards and transmitter should be ready by the end of 1975.

Beacon Broadcasting, Ltd., Queen Street, Wolverhampton, WV1 3BU is seeking capital of £350,000 plus £100,000 overdraft. Prosperous published 3/25/75. On the air by the end of year covering areas of Dudley, Sandwell, Walsall, and Wolverhampton. MW on 989 khz. Chief Executive is an American, 31-year-old James Oliver. Studios may be in Dudley. Due to test at end of 1975 with studios at 267, Tattenhall Road, Wolverhampton. (MWN)

BBC Radio Derby has 110 foot temporary mast with transmitter in a caravan. Now is 1 kw with 220 watt standby, but with old mast.

BBC Radio Leeds has now opened a studio in Bradford.

BBC Radio Carlisle on 755 has increased power to 1 kw. Also 2 kw for Radio Four on 1052. Both opened 6/13/75.

BBC Radio Manchester uses a 3-mast array directed NW, located at Ashton Moss near Manchester. To use a 5 kw transmitter but not on the air before the end of 1975. According to WDXC' August contact, the Tatefield 593 khz tests for setting up a traffic broadcast network. This will replace the traffic reports on BBC Radio 2.

IBA Saffron Green from which Capitol and LBC are now broadcast uses a twin

frequency MF directional aerial--the first time such has been used in Great Britain. LBC has 5 1/2 kw on 1151 (25 kw ERP), Capitol, 27 1/2 kw on 1546 protecting stations to the north (100 kw ERP). Capitol is the strongest IBA station on 1546, and should be loggable in North America this winter. (SWNS, 10/2) (the directional pattern may very well impede reception of Capitol here in North America-ed)

Independent Local Radio Belfast tested 11/3/75 on 1025 with poor modulation. (MWN) Thames Valley Broadcasting, Reading, is the new name for the program company.

Tests have begun on 1430. I.L.R., Wolverhampton tested with carrier and announcements on 989 11/1/75. BBC Radio 4-989 khz is in Exeter area. (MWN)

BBC's request for greater power for Droiteich-200 is rejected. Both Israel and Egypt have applied for 2 MW on 200 khz. BBC WS tests on 1088 khz, 0800-1600 with 50 kw from Diplomatic Wireless Services site in Essex, from Crowborough to 0745 and evenings on the same frequency. (MWN)

BBC requests two MW channels for Radio 1 and Radio 2 and 3, with Radio 4 to be moved to 1 kw (200 khz). The present BBC Local Radio stations would be increased to 35. (MWN)

GREECE, VOA-791 and 1259 (Kavala, Rhodes) are 500 kw. (MWN)

HUNGARY, a new 2000 kw MW station is under construction at Solt, to be completed by year's end 1976. Transmitter is of USSR manufacture. Tower will be 298.4 m high. (SCDX) (That tower height indicates a low-band frequency-ed)

INDIA, new AIR stations are Mysore-1400, Kashmir-1210 (possibly ex-1050), Calcutta-1220, Jammu-1540, and Tawang-1530. (MWN)

INTERNATIONAL WATERS, Mebo Ltd. wins lawsuit against Netherland government and plans reactivation of Radio Northsea soon. (SCDX)

According to the conservative French Valeur Actuelles, the Portuguese politician Mario Soares intends to contact Mebo concerning broadcasting socialist propaganda from Radio Nordsee off Lisbon. (SCDX)

ISRAEL, a report in the June 21 London Daily Mail indicates that "Both the Arabs and the Israelis" are planning to put 2000 kw stations on 200 khz which is a BBC channel. (SWNS, July)

The Israel Broadcasting Authority has been noted with the Home Service "B" program at 2100 on the new frequency of 1439 khz, in parallel with 656 khz, overriding Radio Luxembourg on the same frequency. (SCDX)

EBU reports new Jerusalem 100 kw on 529, and new El Arrish 10 kw on 1439. (MWN)

ITALY, new is Caltanissetta-191 (10 kw) intended for South Italy, schedule 0359-2129. R.A.I. awaits EBU authorization for power increases, Turino-1484 (20 kw), Bari-1331 (50 kw) and 1115 (150 kw). (MWN)

KUWAIT, services in Arabic (main on 539 khz, 1200 kw, and 1345 khz, 200 kw, former to Egypt and latter to Kuwait and Gulf area) 0225-2210, second service on 1130 (750 kw) to Gulf area in English 0500-0800 and 1700-2000, and Arabic 0900-1500. (MWN, April)

LIECHTENSTEIN, a German speaking commercial MW station will be erected with two years in Liechtenstein. The frequency is not decided, but the name will be Radio Vaduz. The power will be 50 kw with potential listeners in Switzerland, Austria and West Germany. (SCDX)

This country is allocated 1386 khz with 500 kw by ITU Geneva Convention. The new frequency plan takes effect November 28, 1978. (SCDX)

MONACO, Radio Monte-Carlo has deactivated its SW outlets. RMC broadcasts two programs, First Program is 0400-2400 in French on 218 khz, and the Second Program is 0630-1700 in Italian on 701 and 1466 khz, then in French 1700-1830 on 1466 khz only. Radio Monte-Carlo is not to be confused with Trans World Radio which broadcasts from Monaco utilizing some of Radio Monte-Carlo facilities. The new Radio Monte-Carlo transmitter on 701 khz is also used by Trans World Radio until 1930 in Italian. (SCDX)

Radio Monte-Carlo has increased power on both 701 and 1466. New transmitter is on Col-de-la-Madonne (1100 meters a.s.l.), 19 km from Monte-Carlo. Mast is 250 meters high and the transmitter on 701 has an output of 1200 kw. (MWN, June)

MOROCCO, Sidi Bennour-773, Agadir-935, Tetuan-1052, all 600 kw, Tangier-1232, 200 kw, Rabat-818, 25 kw, new are Tarfaya-710, 10 kw, Casablanca-1187, 1 kw, Tetuan-898 moves to 917. Oujda-827 leaves the air. (MWN)

MOZAMBIQUE, Porto Amelia has been renamed Pemba, Vila Pery, Chimoio, and Vila Cabral, Lichinga. Contrary to the report in DX-B1332 the new name for Lourenco Marques has not been finally decided yet. Names discussed have been Maputo, Mondlane City and Ka Phumo. Radio Clube de Mozambique is to be renamed and the new

name will probably be Radio Nacional de Mozambique. Lourenco Marques Radio is now listed as the External Service and the "A" program as the National Service. The Beira station (probably Emissora do Aero Clube da Beira, 1430 and 1562 khz-ed), which is privately owned, may be integrated in the National Service or terminated. (SCDX)

Regarding the above, Mozambique's capital has not been renamed. Lourenco Marques is still used instead of Can Phumo. Radio Clube Mozambique has been renamed Radio Mozambique. The English Service still uses the slogan 'LM Radio--Your Happy Day Radio.' (Baker, SA)

The Frelimo have renamed Lourenco Marques as Maputo, not Can Phumo as originally planned. The new name should not be confused with a town of the same name in Natal. (Baker, SA)

Radio Clube Mozambique, Radio Pax, and Aero Clube de Beira were nationalized 9/23 and are now known as Radio Mozambique. (SCDX)

NETHERLANDS, Radio Veronica, the former offshore pirate station, will have the opportunity to acquire a legal position within the Netherland broadcasting scheme. The Minister of Culture, van Doorn, has recognized Radio Veronica as an "aspirant radio organization," i.e. Radio Veronica Omroep Organisatie beginning January 1, 1976 will get broadcasting time three hours a week over Hilversum IV and from April 1st will also have one hour a week TV time. The Veronica O.O. is an aspirant for one year, during which time Veronica has to enlist at least 100,000 members in order to get a so-called (-Lizenz. In the meantime, Veronica O.O. has enlisted 60,000 members. (SCDX)

Megalot to go to 890 and Hilsberg to 1493 (both now on 1594). (MWN)

Radio 5 in Amsterdam on 1250 khz heard all night in parallel with 674. Hilversum-1594 is now 890 khz, Hurstburg-1493 is now 1594 khz. A Hollander LW station is planned. (MWN)

SAUDI ARABIA, "The Voice of Islam" is a large station to be erected at Mecca to counterbalance the many Christian stations, according to Muslim media experts. (SCDX)

SPANISH SAHARA, Spanish 1200-1230, 1300-1800, 2200-0000, Arabic 0800-1100, 1230-1330, 1800-2200 on 656 and 998 khz. (MWN; April)

SRI LANKA, according to Radio Sweden, Voice of Germany and Iran are building a joint relay here, one 600 kw MW and three 250 kw SW transmitters. (SCDX)

According to press reports, Trans World Radio is going to build a MW transmitter in Sri Lanka. (SCDX)

Trans World Radio signed an agreement with Sri Lanka Broadcasting Corporation for the construction of a 400 kw MW station to cover the subcontinent of India, Bangladesh, Pakistan, plus Burma. It is projected to be opened by late 1976. (SCDX)

SWITZERLAND, low power is in use on 1562 khz in daylight and on high power in the evening. According to the Swiss PTT Journal, the 1562 khz antenna radiates at high angles, presumably to get good short-distance skywave propagation. New 300 kw transmitter on 1562 is located in Sarnen, Central Switzerland. (MWN)

TURKEY, new ones are Ankaralon 200 khz, 120 kw, Ankara 3 on 1484 khz, 2 kw, and Istanbul 3 on 963 khz, 2 kw. (MWN, June)

ZAIRE, the La Voix du Zaire regional station at the Muzaba Broadcasting Centre, Bandundu, has been heard carrying out tests with a 50 kw transmitter on 1007 khz. La Voix de Zaire is now silent on 692 khz at the present time. The 836 khz outlet has been noted on 838 and 844 khz. (SCDX)

Two new regional stations debuted recently in the Zaire Republic. One is at Ban Bandundu on 1007 khz, testing at 0400-2000. Reports are requested, to B.P. 100, Bandundu. The other, at Matadi, is on 1160 khz. (SCDX)



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# hit parade

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RADIO POPULAR DE SEVILLA. RADIO VIDA

A LISTING OF ULTRASTABLE TRANSATLANTIC STATIONS  
SUITABLE FOR FREQUENCY REFERENCE PURPOSES

by Gordon P. Nelson

One of the most difficult problems encountered in practical frequency signature analysis is that of obtaining sufficiently accurate and stable frequency signals to permit counter clock adjustment and general system check-out. US domestic signals are unsuitable in almost all cases because of the generous plus-or-minus 20 Hz frequency tolerance permitted by the FCC rules and regulations<sup>1</sup>, WWV and other shortwave "Standard frequency" stations are similarly unsuitable due to problems of interference and ionospheric doppler shifting effects.<sup>2</sup>

The following is a listing of ultrastable European transmitters whose frequency has not varied as much as 0.1 Hz during the past 4 months according to EBU measurements. The EBU frequency measurement network consists of 7 primary and 4 secondary intercept and measurement stations each of which has frequency measurement capability with an absolute accuracy better than 0.1 Hz. The results of periodic frequency measurements are pooled on a monthly basis and both the average frequency and the extremes of variation about the average are tabulated.<sup>3</sup> In order to qualify for our listening a station must meet the following criteria: (a) have maintained a perfect mean nominal frequency for the past four months (e.g. 764.0000 kHz) and never have been observed as much as 0.1 Hz from the mean and (b) operate with at least 50 kW power. Out of a total of 748 monitored by EBU during this period, only 56, or about 7%, meet these criteria. While future frequency behavior is of course uncertain, the past behavior of these stations suggests that the frequency determining devices and engineering personnel are of the highest quality and significant departures from "perfect" frequency control are unlikely.

548	Braunschweig	773	Caceres	1115	Bari
557	Helsinki	791	Limoges	1169	Moghilev
575	Stuttgart	809	Crowborough	1205	Bordeaux
584	Wien	836	Nancy	1214	Tallinn
	Madrid	845	Roma		Washford
	Paris	854	Murcia	1232	Kodice
593	Frankfurt	863	Paris	1241	Nancy
602	Lyon	872	Frankfurt	1259	Warsaw
638	Prague		Leningrad	1277	Strasbourg
	La Coruna	881	Washford	1286	Prague
647	Daventry	899	Milano	1331	Roma
656	Naples	908	London	1367	Bialystok
674	Marseille	926	Wavre	1376	Lille
683	Sevilla	944	Toulouse	1403	Lvov
692	Moorside Edge	953	Brno	1448	Squinzano
728	Berlin	971	Hamburg	1546	Vinnitza
737	Barcelona	1025	Dobl	1554	Nice
755	Braunschweig	1034	Milano	1578	Genoa
773	Voronej	1052	Droitwich	1586	Langenburg

Notes and references:

- 1) As best we know, only one US BCB station has routinely operated on a frequency traceable to NBS standards--WSM. Formerly their frequency was controlled by a rubidium atomic clock on loan from the US government in connection with a series of propagation studies. Now their frequency is controlled by a frequency standard which is phase-locked to WWVB on 60 kHz. When the phase lock system is in operation ("about 95% of the time" according to the WSM Chief Engineer), WSM provides an ideal frequency standard for checking and adjusting frequency measurement equipment. Those wishing to use WSM as a frequency standard should definitely check with the station to confirm that they are operating with the WWVB phase-lock system, however, in the past few months both Glenn Jacobs and I have found them operating on the secondary system with frequency offsets of more than 2 Hz. Note that Doppler shift at MW frequencies is negligible.
- 2) Distribution of Standard Frequency and Time Signals, A.H. Morgan, Proceedings of the IEEE, Vol. 55, No. 6, June 1967.
- 3) Monthly Spectrum Utilization Report, EBU Internam Document, April-July, 1975, via author.

## COMMENTS ON EUROPEAN RADIO

NASWA member David Walcutt recently spent some time in Europe, and sends us these comments: The one thing that first struck me about European radio is that it is holistic. What does this mean? First, distances are short by North American standards. For DXing, and the reception of programs across cultural boundaries, the effect is that such reception is routine, casual and very easy. France is large by European standards, yet 20 Francs will fit into the area of the continental US. Thus, it is an easy matter to receive transmissions from beyond the borders. Commercially in France this fact is taken as a loophole through the tight governmental regulation of all broadcasting, via stations in the surrounding city-states, as well as West Germany. Second, holistic because there is a continuity between long wave, medium wave, and short wave. Both LW and SW are the long distance modes. It is why the commercial stations use long wave to reach France, i.e. Europa I (Germany), Radio Luxembourg, Radio Monte-Carlo. With respect to SW, the relation between distance and frequency directly relates to this continuity. This is because only low SW bands are feasible, for intra-European broadcasts, e.g. SBC-3985 and 6165, BBC-3952, 5975, and 9410, France Inter-6175, Radio Monte-Carlo-6135 and 7135, Radio Luxembourg-6090..... 19 meters, for example, would be out of the question because of the high angle of radiation required and the high intensity of ionization this implies. The significance of the use of low SW frequencies is practically speaking no electronics are required to 'throw in' a SW band on a home receiver. And on these frequencies day-to-day local quality reception is possible of foreign stations. Many stations run these low band SW frequencies in parallel with MW and LW, which I think indicates the local character of SW. Thus, SW does not represent a drastic break from local MW transmissions. Thirdly, MW itself is used for international broadcasting, BBC, Radio Sweden, ORF, not to mention the Eastern Europeans, e.g. Radio Prague. Coming from the US, it takes a while to get accustomed to hearing international broadcasts on these MW frequencies. (Dave Walcutt)

I noticed the same thing while stationed in Viet Nam and the Philippines. One could hear clearly on both MW and SW, broadcasts, foreign and domestic, emanating from the Philippines, Viet Nam, Peoples Republic of China, Taiwan, Indonesia, etc. Our usage in North America, i.e. of MW broadcasts strictly for domestic consumption and SW broadcasts strictly for foreign consumption (with notable exceptions, such as CBC's Northern Service on SW), is peculiar to us and perhaps us alone. What we consider as the norm and usual here is often seen as bazarre elsewhere. (Taylor, IN)



## DXING THE TP'S

by Bruce Portzer

Chances are you've never heard a CCB station farther west than Honolulu. The average East coast or midwest DXer has enough trouble hearing Hawaii, let alone something halfway around the world. Even West coast DXers sometimes have problems hearing China, Japan, New Zealand, and even Alaska. Why? Well, there are several reasons.

First your location. If you live farther east than Denver it's going to be really tough. Asian signals which follow a very northerly path require long periods of low auroral activity to make it that far east. And many Asian signals require multi-hop propagation over dry land, making things that much more difficult. Down under signals, even with a low latitude path over water, aren't all that easy either. DUs and Asians have been heard as far northeast as Boston, but it takes immense skill, patience and equipment. West coast DXers have an easier time of it. Unless you're shielded by high mountains or a high noise level, almost any West coast location is a good one.

Second, your listening hours. If you have to hit the sack by midnight because of school or work you aren't going to have much luck with stations that fade in before midnight only a few times per year. There are two solutions. One is to set you alarm clock for 3 AM or so and check a few key frequencies for TP activity. The other is to get up around 5 or 6 AM, PLT and tune around for a while before departing for your daily routine. Getting up at 3 will enable you to avoid the interference from domestics that s/on at 5 or 6; however, getting up at 5 or 6 will be less detrimental to your need for sleep and is less likely to disturb family members, so it's a matter of choice as to which is better. Down under stations can be heard the year around, but reception is best in early spring and late summer. While Asians have been heard on the West coast during every month of the year, reception is best from early September to early December, with a brief, less impressive, resurgence in February and March.

Third, your gear. If you haven't got a loop, a longwire will work for many locations. However, for getting the real toughies, a loop is desirable if not downright essential. Likewise, even though the high powered biggies can be heard on good portables and car radios, a good communications receiver is virtually a must for serious TP DXing.

Finally, the language barriers. While many Pacific stations broadcast in English, other stations, especially in Asia, do not. You are then left wading through an imbroglgio of pips, gongs, chimes, and languages, many of which sound very similar to one another. However, with a bit of experience, much of this confusion can be overcome.

What follows is a list of likely targets for some of the more frequently heard countries.

ALASKA. KFQD-750 is a near pest in the Northwest but is much less frequently heard in California and, on rare occasions, is heard in the midwest. Some DXers use KFQD as an indicator of good far east reception since KFQD is the first reliable high latitude station to fade in, their appearance often means that staying up a few more hours will produce interesting Asian DX.

AUSTRALIA. 4QD-1550 is by far the easiest, having been heard in Nebraska and Indiana in recent years. 2NR-700, 2BL-740, 4RK-840, and 5AN-890 are also excellent possibilities for West coast DXers. All of these stations are owned by the Australian Broadcasting Co. (ABC), and carry a variety of programs, including opera, classical music, comedy, drama and discussions, not unlike Canada's CBC. Australia also has commercial stations, but all of them broadcast with less than 5 kw and are only occasionally heard on the West coast.

CHINA. The 1040 Foreign Service outlet (usually in Japanese) often puts in a magnificent signal sometimes wiping out WHO. The 835 Home Service outlet is another powerhouse, while outlets on 890, 1020, and 1210 are also good bets.

GILBERT ISLANDS. VS21, Tarawa, is a regular visitor to the West coast and was actually heard in New York and Boston last season. Unfortunately, while the station has low modulation, so audio is often hard to comprehend.

HAWAII. KORL-650 is heard nationwide and is by far the easiest Hawaiian. Other stations frequently heard on the West coast and occasionally heard farther inland include KHVI-550, KGMB-590, KGU-760, KIKI-830 and KHVH-1040.

JAPAN. JOBB-830 is the easiest to hear, handily defeating WCCO in many a battle for dominance on the West coast and sometimes making it as far inland as Oklahoma. JOIB-750 is likewise frequently heard. JOUB-770 can often be heard over, under,

around and through KOB, especially in the northwestern US. In these cases, the language barrier can be broken slightly by listening for NHK's English language lessons at 0920-0950 UTC. All three stations are owned by the NHK, and carry pips on the hour - pip-pip-pip- -PEEP, the last one slightly delayed, several times longer, and a few notes higher. These stations can also be heard giving their call letters and the Japanese National Anthem when they s/off at 1500 UTC.

MALAYSIA. Radio Malaysia's broadcast to the Philippines on 1475 is frequently heard on the West coast and has been heard as far inland as Denver. Programming is mainly in Tagalog and other Filipino languages with lots of US-type middle-of-the-road music. Listen for a 13 note chime IS or for the Malaysian National Anthem, whose opening notes are reminiscent of those accompanying the words "to feel sharp" in the Gillette razor blade commercials.

NEW ZEALAND. The two most commonly heard stations are 2YC-660, and 1YC-880, which on rare occasions are heard on the East coast. Programming is mostly classical music and opera.

NORTH KOREA. Pyongyang-655 is one of the easiest Asians to hear. Listen for harsh propaganda-like speeches and choruses of singers, especially children. Other good bets include the outlets on 785, 820 and 877.

RYUKYU ISLANDS VOA-1178 on Okinawa is easy to hear during their Korean service. Listen for "Yankee Doodle" interludes as well as possible English IDs on the hour or half hour. But better get them this season as the station is scheduled to leave the air in May 1977.

SOUTH KOREA. HLKA in Seoul can be heard most anywhere between 705 and 715 khz. (The station shifts frequency often to avoid jamming.) HLKB-890 is also a good bet. Both stations carry pips similar to NHK's so some care must be exercised. They may also carry English call letter IDs, especially just after the pips.

USSR. The 647 Foreign service outlet is often heard with programming in Japanese, Chinese and Korean. If you live too close to KFI, try during KFI's 11M silent period from 3 to 4 AM PLT, or try for a home service outlet such as 548, 575, 584, or 840. Most Russian stations carry "Midnight in Moscow" chimes on the hour and half hour. The song "Midnight in Moscow" of about 15 years ago was patterned after these chimes.

The above are the easiest, but by no means the only Pacific countries you can hear. The VOA outlets on 1500 in Thailand and 1140 in the Philippines are heard occasionally. Several Pacific Islands are also possible such as Canton Islands-1385, Tonga-1020, Solomon Islands-1030, Tahiti-740, and Fiji-640, 710 and 890. Guam has acquired a couple of new BCB stations recently but so far has not been reported. Even more exotic places like Macao, Kwangjalein and New Guinea have been reported, but not in recent years.

This, then, is a sample of what you can hear from West of the Pacific Ocean beaches. In hearing these stations, the important thing to remember is to have patience. Conditions vary considerably from day to day: one day nothing will be coming in, two days later the band will be crawling with signals. And once the stations are coming in, signals will vary considerably in strength; one moment nothing will be there, a few minutes later strong audio will be present, only to fade out and reappear a few minutes later. But with patience and skill, your efforts will be greatly rewarded.

#### TIME PIPS AS AN AID TO IDING TPS

By Nick Hall-Patch

Beginners in the field of TP DXing (such as myself) may hear TPS, but particularly on a poorly calibrated receiver may not be exactly sure what they're hearing. Language is usually unfamiliar while static and fading often make a verbal ID difficult to hear. However, many TPS use time "pips" at the top of the hour which may serve as an aid in identifying these stations. Pips are short (1/2 to 3 seconds) tones usually repeated, which often cut through the noise when not much else in the way of audio is coming through. The following is a list of some of these pips mainly gleaned from their DXers:

#### Legend

- very sharp, shorter than a half second
  - half second
  - multiples of a half second with - equalling a half second.
- This equals one second.

Dots and dashes on the same line are the same pitch. A dash raised above the rest of the line is higher in pitch. If it's known how much higher, I will note it's musical intonation. The following are Art Peterson's classifications.

A. Constant pitch and duration

1. JONR-1010, JOOR-1210, Far Eastern Broadcasting Co. (Philippines):        (key of C)
2. Far Eastern Network (AFRTS Japan):        (key of A)
3. China-890 (this one is not certain):
4. Radio New Zealand, ABC Australia, USSR (Home Service only, not 647 kHz):
5. Radio Malaysia, also Thai National Broadcasting Corporation:        (key of B)
6. Radio Malaysia-Sarawak and Radio Singapura:        (key of C)

(Note that R. Malaysia and Singapura would use their pips on our half hour as their time zone is stepped off by ½ hour. I believe Sarawak is on the hour)

B. Variable pitch, constant duration

1. North Korea (noted on 625, 655, 877):        (F to Eb)
2. North Vietnam (this is from 1968):        (D to F)
3. People's Republic of China (not on 1040 or 835):        (G to G an octave above)

This series takes 11 seconds to complete.

C. Variable Pitch and Duration

1. KBS, South Korea:        (A to A an octave above)
2. NHK I and II, Japan, also BCC Taiwan:        (A to A an octave above)

Some of these pips could provide a near certain ID is heard on the hour on a frequency that you know the station or network broadcasts on. Most have been noted above as musical notes and the pitch of these notes may be used as an aid to identification if you can tape the pips, then try to match them with the musical notes on a well-tuned piano, guitar, or whatever. Gene Martin in his article on pips as musical notes pointed out that there may be a difference in pitches between the pips of New Zealand, USSR, and Australia, but no further work seems to have been done.

My thanks to Arthur Peterson for his tape and information on pips and various TP IDs, as well as for Gene Martin's article on musical analysis of pips. Also to Eric Rittenhouse for information he has noted on pips.

## PACIFIC LOGGINGS

- 530 AUSTRALIA, Dalwalinu, 6DL, 3/2 1428-1500 country western pgm 1444+, time check quarter to 11 and ABC R., 7 to 11 at 1453. Nx at 1500. Faded in and out but fades not more than a minute or so. Time checks threw me. Are they back on standard time? Report sent. (Williams, OR)
- 530 AUSTRALIA, Kempsey, 2KM, 2/28 1155-1204 fadeout w/man anmt "5 minutes away from news" spot 1158 for a news and commentary show. 2KM repeated several times. Px at 1200. First reception for me, at least w/an ID. Report sent. (Williams, OR)
- 530 JAPAN, Morioka, JOQG, weak at 1009 9/8. Only a carrier noted MM 8/18 1045. (Pejza, CA)  
 +NHK 1 was in weak 1215 9/15 w/carrier plus audio on occasion in JJ. (Peterson, CA)  
 +good w/woman JJ talk, occational fading w/high noise level 10/8 1351. NHK pips at 1400. (Pejza, CA)
- 530 ? UNID, always something here 1100+, best around 1300. Never good strength always nil interference. At 1354 9/28 maybe in JJ. (Szot, CA)  
 +unidentified foreign oriental u/JOQG, sounded like CC, 3 long low pips at 0358 10/8. No CC station listed. (Pejza, CA)
- [ 540 PHILIPPINES, Baguio City, DZWT, is a new station 10 kw, address from Box 71, Baguio City 0201. (Hauser, IL)  
 +DZWT is hardly new, first hrd in Philippines in April 1969. (Taylor, IN)
- 540 ? UNID, PRC 1343 9/29 opera. First time I've noted CC here. (Williams, OR)
- 545 ? UNID, carrier looping SE Asia back again 1020 11/3 and at other times this morning. Hong Kong would be nice! (Peterson, CA) (Could also be the station I hrd here. See domestic section - ed)
- 548 ● USSR, Vladivostok, still only a carrier 1217 9/7. (Pejza, CA)  
 +completing the trio 1108 $\frac{1}{2}$  9/23 w/man in RR strong. Also good in passing 1212 9/25 w/talk. (Rittenhouse, CA)  
 +coming through w/best signal ever 1108 $\frac{1}{2}$  9/28 w/talk in RR completely clear of 550 slop. (Rittenhouse, CA)  
 +in weak w/mucho static 0904 9/29, was better later on w/more complete darkness. (Peterson, CA)  
 +carrier good, S-8, audio weak 9/29 1130, 1230. (Seaver, CA)  
 +in but quite weak 1150 10/20. (Peterson, CA)  
 +good w/classical mx 1355 10/25, easily separable from 550 domestics. (Portzer, WA)  
 +this outlet hrd 11/3 1130-1205 w/Mayak pgm of concert type mx, 4 sets of Mayak chimes and 5 pips on the hour, then nx after the hour. WRTH lists Vladivostok w/first pgm 2330-0730 and Mayak pgm 1900-2100, also lists Yakutsk here w/Mayak pgm 2100-2200. We've traditionally called this Vladivostok, it seems that WRTH '75 schedules match well w/what we've hrd, West coast North America this season. (Seaver, CA)  
 +putting old familiar het on 550 domestics 1248 2/23. Carrier big on BFO but audio never made it. (Rittenhouse, CA)
- 550 HAWAII, Wailuku, KMVI, strong w/Hawaiian nx o/everyone else 1003 1/11. (Portzer, WA)
- [ 560 AUSTRALIA, Wagin, 6WA, hrd 8/19 2104 w/nx in EE, fair. (Baker, SA)
- [ 570 GUAM, Agana, KATB, has been heard at 1720 in Japan. Address is KATB, P.O. Box 65, Agana, Guam 96910. (SCDX)
- 575 ● USSR, Kharbarovsk, returning 1310 8/29 w/fair carrier and poor audio, signaling the start of another TP season. (Rittenhouse, CA)  
 +still only a carrier 1218 9/7. (Pejza, CA)  
 +as good as any time last year w/classical mx 1108 9/23 and w/almost perfect signal 12.2 9/21, also w/classical mx. (Rittenhouse, CA)  
 +1342 9/28 quiet classics, RR man and woman once. Starting to fade by 1351. Good. (Szot, CA)

+in 0910 9/29 w/fair signal, some static. (Peterson, CA)  
+home service outlet good (S-9) 9/29 1243 w/semi-classical mx pgm.  
(Seaver, CA)  
+1403 10/25 w/man talking in RR through slop from local KVI-570.  
(Portzer, WA)  
+really ripping w/cl mx 1247 2/23. In super strong all AM whenever I  
checked. (Rittenhouse, CA)

580 AUSTRALIA, Brisbane, 4QR, 7/15 0803-13 fair w/ID & PSA, local & US pop  
mx. (Albrecht, TI)

584 ● USSR, Svobodnyy, still only a carrier 1219 9/7. (Pejza, CA)  
+showing big carrier 1105 9/27 & fair audio 1056 9/28 in passing.  
(Rittenhouse, CA)  
+1340 9/28 w/R. Moscow CC service & ranting by a man, good. (Szot, CA)  
+fair-good w/CC talk, then martial mx 1425 10/23. (Portzer, WA)  
+Kremlin bells hrd 10/26 1230, then into CC pgm. (Seaver, CA)  
+11/1 heavy het, faint trace of audio 0836. Heavy KMJ-580 slop.  
(Heald, CA)  
+blasting in at times around 1135 11/17. Measured 584.000 at 1145.  
(Peterson, CA)  
+w/YL in discourse in what sounded like CC 1247 2/23. Had Kremlin Bells  
1259%-1300 & CC ID on recheck. (Rittenhouse, CA)

584 ? UNID, something seemed to be trying to arrive here 1257-1300 thru the RR.  
Couldn't make anything out but there did seem to be 2 stns on the freq.  
(Rittenhouse, CA)

590 HAWAII, Honolulu, KGMB, 7/15 0851-55 fair w/spot & SID. MoR mx, mostly  
oldies. (Albrecht, TI)

600 COOK ISLANDS, Rarotonga, ZK1ZC, 7/16 0554-0600 good steady signal w/relig  
pgm, spots & ID "You are tuned to the sound of the Cook Islands". EE &  
Polynesian mx followed ID. (Albrecht, TI)  
+hrd 9/3 0815-0834 w/RNZ nx 0815 followed by mx. Island wx report by man  
0825 in EE & Maori. IDing as 1ZC w/s/off anmt 0830. Maori anthem, then  
GSQ. Carrier off 0834. Good sig but some QRM & severe QRN. First time  
hrd here this season. (Trubee, HI)

615 t CHINA, unk loc, noted last spring was putting in good carrier w/oriental  
Talk poking thru KFRC slop at peaks 1112 9/28. (Rittenhouse, CA)  
+S-8 9/29 1309 in CC. Anybody ID this yet? (Seaver, CA)  
+rptd by Rittenhouse hrd 1147-1200+ 11/17. KFRC popped off RS to OC just  
as I was tuning by, China sig was good. A brief KFRC tone blast at 1149  
then China okay till KFRC came back on 1200. After 1200 China carrier  
still detectable thru KFRC barrage. Measured 615.129 just before 1200.  
(Peterson, CA)  
+again putting fair carrier up against KFRC 1246 2/23. Audio is impos-  
sible here due to merciless KFRC slop & will be unless KFRC decides to  
go off again as it did in December. (Rittenhouse, CA)

620 HAWAII, Hilo, KIPA, hrd w/fair sig 0445 5/3 after KGW s/off 5 mins  
earlier. Strings of rr songs w/little chat. Believe KGW OC was on,  
causing some mangling of the signal. (Hall-Patch, BC)

625 KOREA-NORTH, Haeju, only a carrier 1223 9/7. (Pejza, CA)  
+seems to be 2nd most reliable KK behind 655. Was in very well // 655  
1214 9/25 w/OM in tirade. (Rittenhouse, CA)  
+is just as reliable as 655 this year. About a third of the time in spot  
checks it is better than 655. It was blasting in way o/slop w/children's  
chorus 1113 9/28. This may be one for non WCers to look for as the  
season progresses if its early strength is any indication.  
(Rittenhouse, CA)  
+1337 9/28 w/KK mx, KK talk by woman, poor. (Szot, CA)  
+fair 9/29 1041 w/2nd net // 875, seemed // 655 at 1243. (Seaver, CA)  
+mostly a carrier, some audio, here 0926 11/17. (Portzer, WA)  
+once again noted w/potent sigs // 655 1243 2/23. This has been really  
powerfull this season & could be a good shot for inland reception.  
(Rittenhouse, CA)  
+// 655 w/3 low & 1 high pip 1200 3/22, then inst mx. (Bytheway, WA)

- 629 ● <sup>t</sup> USSR, Khabarovsk, carrier again noted here 1114 9/28 looping TP. I had something here last spring too, and I'm convinced it's not TVI. Could be the RR formerly here or maybe a CC or something. (Rittenhouse, CA)
- 630 AUSTRALIA, Townsville, 4QN, hrd while looking for WJDB DX test. First noted 11/10 w/oper mx fading in & out looping NE/SW at 0954. At 0957, an anmt about opera & ment of ABC Radio. 1000 had 6 pips & YL w/nx. (Bytheway, WA)
- 634.9 KOREA-NORTH, Chongjin, fair sig noted first time this season 1053 11/3. (Peterson, CA)
- 635 <sup>t</sup> CHINA, only a carrier 1016 9/8. (Pejza, CA) (There's a North Korean here also - ed)
- 635 KOREA-NORTH, Chongjin, w/good carrier 1214 9/25. KFI too much for audio. (Rittenhouse, CA)  
 +Foreign service good in JJ 9/29 1002 w/KFI off. (Seaver, CA)  
 +in passing w/good carrier 1104 9/27 & 1217 9/28 when it was best ever in talk by OM not // 655/625. (Rittenhouse, CA)  
 +1324 9/28 w/mx & anmts in JJ by a woman // 3015 FS. Sometimes good strength, but bad fades so sometimes not in at all. (Szot, CA)  
 +has anybody ever hrd another Oriental here? All I've ever hrd is the JJ service. (Seaver, CA) (Nothing shown in Foreign logs 1,2,3. WRTH lists Nanning, China here - ed)  
 +not nearly as strong as 625 but still putting in respectable sig 1244 2/23. (Rittenhouse, CA)  
 +good 1121 3/22 w/man talking in KK, not // 655. (Bytheway, WA)
- 640 AUSTRALIA, Crystal Brook, 5CK, a suprise here 0850-0905 2/23 w/KFI nulled 0850 had talk show to 0858 jazz interlude. 6 pips at the top of the hour then nx. Wx & sx for S. Australia & New South Wales 0904 clinched it. (Bytheway, WA)
- 645 CHINA, Peking, in as a carrier 1225 9/25 w/fair strength thru KFI/KNBR slop. (Rittenhouse, CA)  
<sup>t</sup> +carrier here 1117 9/28. I've seen this listed as both a CC & a KK. I've been calling it China but audio is so tough I can't be very sure. Does anyone know which? (Rittenhouse, CA)  
 +YL & OM talking in CC, good but KFI QRM, 1239 9/30. (Bodell, OR)
- 647 ● USSR, Vladivostok, just caught end of Kremlin Bells 1330 9/8 followed by what sounded like JJ. Covered by strong KFI slop 1334. (Pejza, CA)  
 +9/9 1146-1202, Radio Moscow in KK, man & woman alternating w/talk, anthem type mx 1151, 1156; 10-note IS 5 times on hour; into R. Moscow in CC w/man & woman alternating. Very good strength, few fades, slight splash from KFI & KYAK/KORL; probs w/local cross modulation when CBU OC came on at 1200. (Ford, BC)  
 +showing the super strength of last fall 1211 9/25 w/c1 mx. (Rittenhouse, CA)  
 +1330 9/28 R. Moscow IS, then into KK w/OM ancr, very good signal & readability. (Szot, CA)  
 +squeaking in at local dusk w/weak signal & heavy static. Positive ID via Kremlin Bells at 0900 9/29. Signal improved later. (Peterson, CA)  
 +Foreign service good (S-7-9) 9/29 at 1000 Kremlin Bells, into KK pgm at 1032, 1049 in CC pgm. KFI off 1000-1100 each MM. (Seaver, CA)  
 +YL in what sounded like JJ bombing in amid slop from KFI; brief musical themes at 1242 & 1247 9/30 w/talking in between. (Pejza, CA)  
 +10/5 1411-1427 tuneout. OM RR anmts. Sounded like Mayak pgm. Vocal & inst selections. Fading badly by 1427. (Williams, OR)  
 +in well thru KFI slop w/YL talking 1004 11/17, mx 1016, Kremlin Bells 1030. (Bytheway, WA)  
 +was weak at 1015 1/5 on a fair TP morning. (Peterson, CA)  
 +1400 1/8 w/Oriental lang & soft chimes figure repeated 4 times (that I heard) on the hour. My wife played the IS from WRTH on the piano for me and it matched the chimes for a nice solid ID. Nil to fair signal, bit of a het from KOR.-650. (Hall-Patch, BC)  
 +noted w/good carrier & what sounded like KK buried in KFI/KNBR slop 1244 2/23. (Rittenhouse, CA)  
 +booming in w/Russian NA 1358 3/22, then Kremlin chimes 1400. Talk by YL

followed. (Bytheway, WA) (WRTH lists this as 1000 kw - ed)

- 650 ALASKA, Anchorage, KYAK, 9/8 0813-0833, c/w mx, lots of local spots, "K-Y-A-K, 6-5-0 Country Gold", "KYAK Radio, Anchorage" & "Big Country Radio" slogans; nx headlines & wx on hour. Very good, alone, almost no fading. (Ford, BC)  
+returning w/blockbuster signal w/c/w & AK ment 1210 9/25. First time ever during week. (Rittenhouse, CA)  
+noted w/c/w mx 0720 9/29 w/KORL nullled. (Bytheway, WA)
- 650 HAWAII, Honolulu, KORL, noted best ever w/perfect signal & good ID 1100 8/7. (Rittenhouse, CA)  
+only Hawaiian hrd so far from here 1143 9/6 w/"The new KORL rock". (Pejza, CA)  
+1322 9/28 w/various pop tunes. ID by a man as "KORL, your mx stn, right here on 65". Still there at 1407 check. Good. (Szot, CA)  
+10/10 0830 w/rr mx & IDs "R. 65". Request line given o/air as 524-3355. (Lobel, CA)  
+11/10 0744 w/rr. This one has been in every MM since mid-Sept. Especially good this time. (Keeney, KS)  
+poor but readable 11/17 0800 w/"Beatles Hour" & spot for Imperial Hawaii Hotel. (Lester, WI)  
+always u/WSM after 0900 12/21-27. Especially good 12/26 in mx w/ID 1000. (Rittenhouse, CA)
- 650 <sup>t</sup> JAPAN, Synchros must be the source of apparent JJ talk 1216 9/28. The speech was a bit muffled and had almost a KK ring to it so maybe lessons. (Rittenhouse, CA)
- 650 <sup>?</sup> UNID, 12/1 0900 w/Rev. Ike-type preacher trying to sell pianos. I assume he was doing the playing. In EE. Maybe KORL. (Dale, MO)
- 655 KOREA-NORTH, R. Pyongyang, returning w/usual fair and good signal in KK 1256 8/29. (Rittenhouse, CA)  
+9/6 1145 w/chorus; YL in KK MM 9/8 1025. (Pejza, CA)  
+9/8 1112-1132 vocal mx w/choir singing & woman speaking briefly 1117, brief vocal mx, into man speaking continuously until tuneout. Sounded like KK but not sure. Good strength, alone, w/severe fading at times. (Ford, BC)  
+was in w/poor signal 1105 9/1 w/talk in KK & all alone for first TP reception of the season. Back w/fairly strong signal 1230 9/15 w/singing. (Peterson, CA)  
+absolutely blasting in 1210 9/25 // 625 w/ranting OM. (Rittenhouse, CA)  
+finally reaching the level people always told me it was capable of 1115 9/28 // 625. (Rittenhouse, CA)  
+1st net stn noted 9/29 1000 w/pips, at 1300 OM worked himself up to a fever pitch, played martial mx across the hr w/no pips, then calmer YL & OM. (Seaver, CA)  
+very faint 9/14 MM 1147 w/slop from KBOI; better 9/30 1258 w/man & woman; chorus 1259, followed by soap opera sounding thing. Mixing w/a 2nd stn, very weak. (Pejza, CA)  
+YL talking in KK, mx, 1100 time pips 9/30. (Bodell, OR)  
+10/3 1100 good audio, man in KK 1115. What sounded like KK mx followed by YL ancr & more mx 1128. Ment of what sounded like Pyongyang at 1130. No sign by 1135. Recheck found it back at 1155 w/male ancr & large chorus singing. KFI slop at 1159 made it difficult but pips at 1200 made it thru loud & clear. (Lobel, CA)  
+good moat AM's, prob best ever 10/26 1200 w/pips & ID, and later at 1234. 2nd stn underneath, not SS or SE Asia lang, prob Verhoyansk. (Seaver, CA)  
+strong w/4-pip time signal (3 low, 1 high, all short) at 1100 11/3. (Peterson, CA)  
+good w/man in KK 11/3 1307. (Pejza, CA)  
+suspect Pyongyang here 1035 11/17 w/martial mx & terse Oriental female talk until KNBR decided to play a record which pushed their sidebands out to 650 on my rig; no more oriental. (Korn, CA)  
+1225 11/17 apparently // 816 & 874. All 3 still in/out 1250 w/man talking, long pauses. (Erickson, CA)  
+12/1 1045 w/woman in what sounded like KK, then some chanting. Lots of KFI slop. (Lobel, CA)  
+good signal 1025 1/5. (Peterson, CA)  
+1358 1/8 w/OM talk. Couldn't say what lang (JJ?) & didn't stick around

for ID but nipped down to 647 for RR IS. Good strength w/some fading.  
(Hall-Patch, BC) (Language was most likely KK - ed)  
+monster carrier & pgm // 625 1245 2/23. (Rittenhouse, CA)  
+good sig 1050 3/7 w/lady singing in Unid lang. In strong 1105 w/OM  
talking emphatically in KK? followed by YL. Seemed to be a play. Pgm on  
874 seemed to be //. NHK type pips on the hour. (Tomer, CA)  
+man talking in KK, quite good MM 3/1 1241. (Pejza, CA)  
+3/16 1345-50 tuneout w/spirited speech by OM. KK anmts 1350, then speech  
continued. Fair signal. (Williams, OR)

660

ALASKA, Fairbanks, KFAR, 9/5 1053-1122 MoR mx w/woman (Linda Welsh) DJ;  
nx headlines & brief wx on hour; plain ID's as "K-F-A-R Radio"; spots for  
JC Penneys, USO, Vapor Injection System, Toastmasters Club. Fair-good  
w/almost no fading. Noted just as good 1231. (Ford, BC)  
+once most wanted has been in well past 3 AMs. 9/23 had a big carrier all  
AM but couldn't ID it u/KNBR slop. 9/24 it was rolling in just o/KNBR  
slop w/rr & IDs plus lotsa spots 1105-1334. 9/25 I happened to tune by  
0609 while looking for TAs & found a rocker w/local strength & no trouble  
from KNBR. Thought XERPM or WNBC but stuck around & was shocked to dis-  
cover it was KFAR again. In until I went to bed & it never lost any  
strength! (Rittenhouse, CA)  
+in a rare appearance 10/26 1142 w/TC. Alaska tough in SD since it's 2 F  
skips. (Seaver, CA)  
+in good 1028-1032 w/time & ID 1030 3/20. rr mx & local spot, then faded  
& did not return. A 0646 3/21 unid voice anmt giving time at the "Super  
66" looping towards Alaska w/correct local time for Fairbanks. (Tomer, CA)

660

JAPAN, synchros, putting fair JJ talk thru strangely weak KFAR 1215 9/28  
(Rittenhouse, CA)  
10/7 1355 in JJ; NHK pips 1400. Lotsa KNBR slop. (Pejza, CA)

660

NEW ZEALAND, Wellington, 2YC, presumably this is the one that had YL  
saying "this is the voice of....?, it's 12 midnight" (DST?) at 1100 1/19.  
Preceded by cl mx, followed by BBC World Service nx & s/off w/simple  
"good night" at 1115. Nil to good, fades of not more than a minute.  
Troubled by bursts of local electrical noise which seems to settle on IDs  
(Hall-Patch, BC)  
+prob the source of extremely weak choral mx here 2/16 0831. WNBC off &  
the beastly het which YNAM generates on all 660 stns was nulled. Static  
heavy. Still hoping that some day I'll find a decent NZ signal here.  
(Martin, CO)  
+4/21 1108-1157 w/BBC World nx, cl guitar & piano, then pgm review, fol-  
lowed by abrupt s/off; "This is R. NZ, it's three until 12 & we're  
closing down until tomorrow" o/2BY broadcast // 2NR. (Tomer, CA)  
+accented EE talk fair 1020 5/2. (Portzer, WA)

660 ?

UNID, here 1145 8/7 w/weak audio. Maybe a DU but Super-slop-680 kept  
SM-2 too busy to be sure. NZ? (Rittenhouse, CA)

665

USSR, Komsomolsk-na-Amure, w/good carrier & hints of audio thru KNBR/KFAR  
slop 1220 9/25. Best yet on this one. (Rittenhouse, CA)  
+1357 9/28 carrier, no audio. Also 1300 sporadic modulation having some  
mx & some talking in unkn lang. Who was hrd here last year? Also, hrd  
1200 10/11 w/nice carrier but no audio readable. Strength is better than  
655 N. Korea but where's the modulation on this 665 monster? The freq is  
an exact 665.000 which shows that whoever this is has good freq control.  
(Szot, CA)  
+carrier strong 0856 9/29 but little if any audio. This early a fade-in  
time indicates NE Asia location, so most likely is Russia. (Portzer, WA)  
+apparently not USSR. Audio came up about 0920 9/29. Stuck w/it to 1/2 hr  
but no discernable ID or IS. Got back to it 1230 but again no audio.  
Made yet another try 1300 but still no ID or IS. I doubt even the listed  
Malaysia since they do use pips (6 pips). Anyone else want to guess?  
(Peterson, CA)  
+If this is USSR it will be the first USSR stn I have ever hrd that did  
not use some kind of IS or TS at least on the hour. But this could well  
be an exception. (Peterson, CA) (true, Russians invariably have an IS,  
but so far most of us have hrd only a carrier & no audio, so maybe the IS  
couldn't get thru either - ed)  
+carrier fair, no audio 9/29 1105. (Seaver, CA)  
+1339 9/29 classical mx & RR anmts // 548. (Williams, OR)

- +RR talk by OM/YL fair-good 1001 9/30. (Bodell, OR)
- 665 ? UNID, carrier looping TP 1033 9/8. Good strength but little if any audio. (Portzer, WA)  
 +strong carrier looping TP but no audio 1240 9/15. Most likely the USSR listed as Komsomolsk-na-Amure, wherever that is! (Peterson, CA) (200 mi NE of Khabarovsk - ed)  
 +was weak at 1152 10/20 at about the same time as USSR-548, so perhaps at the same distance? Listed USSR-665 and 548 near each other so perhaps this is USSR. Still no definite ID. (Peterson, CA)
- 670 JAPAN, Osaka, JOBK, poking through KBOI 1216 9/28 w/JJ talk for only second time ever. KNBR its usual impossible self. (Rittenhouse, CA)  
 +NHK 1 JJ talk u/KBOI 1012 9/30. (Bodell, OR)
- 683 MAURITIUS. The only current MW station is Mauritius Broadcasting Corporation, Forest Side, 10 kw, here. A new station is to be built here someday. (SCDX)
- 685 KOREA-NORTH, Unk loc, putting weak carrier thru KNBR/XETRA slop 1245 9/25  
 Audio of course impossible but it deserves a medal for getting anything thru the weighty 680. (Rittenhouse, CA)  
 +once again putting carrier thru KNBR/XETRA 1226 9/28. I doubt audio will ever be possible between the Weighty 680 & XETRA slop. (Rittenhouse, CA)
- 695 KOREA-NORTH, Chongjin, w/good carrier 1240 9/25 despite merciless KNBR/XETRA/CBU slop. I think some KK snuck thru but maybe just pwr of suggestion. (Rittenhouse, CA)  
 +also in as carrier 1226 9/28. (Rittenhouse, CA)
- 700 ALASKA, Anchorage, KBYR, after finding KFAR 9/24 I decided to give 700 a shot. At 1216 an AK ment came thru & 1219 a 19 past 3 TC came thru to clinch it. Northern cx superb that night. (Rittenhouse, CA)  
 +presumed the one w/faint US mx mixing w/JJ synchros 10/28 1335-1340. Much slop so nothing definite hrd. Also a bad het on about 698.8; no audio hrd there. (Pejza, CA)  
 +fair 0841 11/17 w/Alaska TC, IRC PSA, & football roundup. (Bytheway, WA)
- 700 AUSTRALIA, Grafton, 2NR prob the source of accented EE 1133 8/7 thru KNBR slop. (Rittenhouse, CA)  
 +presumed the one in EE, very weak, looping the right way 2/28 1306. Too much slop. (Pejza, CA)  
 +3/1 1258-1300 w/end of ABC nx, 6 pips on hour, ID as "ABC 1 & 3" fair. WLW had already faded out. (N. Hardy, WA)  
 +1343-1400 3/28 in weak to strong w/YL announcing choral/light cl mx & OM giving IDs as ABC 1 & 3. Australian nx at 1335, then wx, 6 long time pips at 1400, then s/off. (Tomer, CA)  
 +1300 4/5. Fair-good w/piano mx, almost EZ listening. Then ABC Radio 2 ID, Eastern Time TC & pips. (Hall-Patch, BC)
- 700 CHINA, Nanking, battling w/Japan & Alaska here 9/28. CC talk was generally on top w/EE/JJ under but each of the 3 stns was recognizable at times. (Rittenhouse, CA)  
 +listed MM 10/13 in & out w/Japan; martial mx 1236, CC talk. (Pejza, CA)
- 700 JAPAN, Hiroshima/Kitami, JOFB/JOKD, man in JJ 1140 9/6; also JJ talk 1225 SM 9/7. (Pejza, CA)  
 +CC & JJ both fighting KBYR at several times 9/24 & 9/25. (Rittenhouse, CA)  
 +NHK 2 old standbys in w/EE lessons u/slop and US QRM 0938 9/29. Good signal in spite of competition. (Peterson, CA)  
 +JJ talk mixing w/WLW, many //s, fair 1037 9/30. (Bodell, OR)  
 +synchros in & out mixing w/China 1236-1245 MM 10/13. NHK theme mx at 1240. (Pejza, CA)  
 +NHK 2 synchros hrd 11/9 1028-1042 w/EE lessons. At 1029 they spelled the word "ghoch" (Japanese "ghoti") pronounced "fish". XETRA-690 had OC this hour. (Seaver, CA)  
 +here w/China & Australia combining for strange mix 1249-1252 & 1315-1320 2/23. Was trying for 2NR since VS21 & WXLE good that AM & found JJ talk w/CC chorals u/1249. At 1251 caught YL in Aussie EE fading thru to signal the presence of 2NR. This is the first DU of the season for me & none too soon. Checkback 1315 revealed the JJ/CC combo w/no sign of 2NR

- presumed to have s/offed at 1300. (Rittenhouse, CA)
- 700 ? UNID, JOFB/JOKD probably hrd from 1320 to 1404 3/28 w/typical NHK "English Hour" pgm & EE lessons // to JOBB. Fairly steady until wiped out by KNBR/XETRA slop at 1404. Too busy w/2NR to wait for ID on this one. (Tomer, CA)
- 705 KOREA-SOUTH, Seoul, HLKA, YL jabbering 0846 11/17 in/out about every 5 mins or so. 0933 hrd w/man & woman talking. (Bytheway, WA)  
+noted here MM 11/17. Carrier & some audio first noted around 0850. Pipe hrd 0900, more audio noted later w/fair signal. (Portzer, WA)
- 705.9 KOREA-SOUTH, Seoul, HLKA, KBS nice signal 1210 11/17 w/only a little slop from 710. (Peterson, CA)
- 708.5 ? UNID, looping TP w/weak signal noted 1112 10/13 & for ½ hr more. KIRO QRM was devastating. Checked //s w/655 & 877, not //. Did not sound like CC. Nothing listed. (Peterson, CA) (How about S. Korea, which drifts from 705 to 715? - ed)
- 710 v KOREA-SOUTH, Seoul, HLKA, noted varying 708-712 9/24 & 9/25. Was on 708 w/KK poorly 1225 9/24. With good carrier on 712 1216 9/25. (Rittenhouse, CA)  
+re the reported drift on this station; this freq variation is intentional in order to dodge intense N. Korea jamming near this freq which penetrates deep into South. KBS has better technical standards any day! (Taylor, IN)
- 712 v KOREA-SOUTH, Seoul, HLKA, the yo-yo of SK still hopping around this year. Was up to here w/strong carrier 1136 9/28. (Rittenhouse, CA)  
+w/big carrier here 1239 2/23. KDWN/KIRO/KMPC too much for audio. (Rittenhouse, CA)  
+putting wicked het against KMPC 0832 3/22. Fair-poor w/bits of choral mx & male talk in KK. (Portzer, WA)
- 715 ? KOREA-SOUTH, Seoul, HLKA, KBS noted here 0942-1002 9/29. Audio poor until improvement at 0952. KBS pips (2 short low, 1 long high) on hour. Tentatively calling this HLKA since it has been known to shift before. Good signal but horrible slop. (Peterson, CA)
- 720 AUSTRALIA, Perth, 6WF, w/same pgm as 6WA, poor w/het. (Baker, SA)
- 720 CHINA, Peking, a real shock coming thru normally blasting KDWN w/choral mx 1136 9/28. This was real strong last year but I thought I'd never hear it again w/KDWN. (Rittenhouse, CA)  
+10/5 1407 man in CC good steady signal. Fading down by 1410. (Williams, OR)
- 725 KOREA-NORTH, Kimclaeak, good carrier 1235 9/25 thru CKLG slop. (Rittenhouse, CA)  
+2nd net pgm 9/29 1302 at good level. (Seaver, CA)  
+was weak at 1145 10/13. Have not hrd this much lately. (Peterson, CA)
- 730 ? UNID, looping DU 6/27 had OM w/limey accent rambling on about philosophy of democracy or something similar. Weak w/noise. KBOY s/on wiped out hopes of ID at 1300, but suspect 5CL, Adelaide. (Tomer, CA)
- 735 KOREA-NORTH, R. Pyongyang, only a carrier 1024 MM 9/8. (Pejza, CA)  
+barely audible thru CKLG & KRMG. S-4 at 1040 10/20. New. (Hanavan, CA)  
+first time this season w/singing 1145 10/20. Horrendous CKLG QRM. (Peterson, CA)
- 740 AUSTRALIA, Sydney, 2BL, 7/15 0819-22, poor w/TC "19 past 6 in Sydney", local pop mx. (Albrecht, TI)
- 740 KOREA-SOUTH, Taegu, HLKG, KBS in fairly well w/KCBS off. // other freqs 1010 9/29. (Peterson, CA)
- 745 ? UNID, carrier noted 1227 9/28 looping NW w/fair strength o/u KCBS slop. I think SK & USSR have been rptd here before. Maybe a NK? (Rittenhouse, CA)

- 49 <sup>?</sup> UNID, carrier looping TP detected here 1111 9/23. KCBS slop precluded audio. Can anyone ID this? (Rittenhouse, CA)
- 750 ALASKA, Anchorage, KFQD, noted good w/MoR mx 1208 & 1220 8/11. All alone little fading, not hrd since April. (Ford, BC)  
 +fading in & out w/JOIB; SID 1310; pop tunes, mostly oldies; TC at 1320 as 20 min after 3. (Pejza, CA)  
 +completing the impossible task of getting thru KCBS/KFMB slop 9/24 & 25 w/xlnt strength and no sign of WSB. I'd never been able to drag it thru on a weekday. (Rittenhouse, CA)  
 +booming in w/local-like signal 0730 3/22 w/rr oldies, nx headlines & temperature given in centigrade. (Portzer, WA)  
 +4/16 ID 0653 in very good w/promo for "Stop & Go" contest, local spots, MoR mx. (Tomer, CA)  
 +booming in w/rr oldies 1214 4/27. (Portzer, WA)
- 750 AUSTRALIA, Toowomba, 4QS, hrd weakly w/male opera 0956 2/23, mumbling noted 0958, then ment of ABC just before the 6 pips 1000. Talk by woman followed. (Bytheway, WA)  
 +1237-1310 4/23 w/lt jazz, quiet mx, 5 long pips on the hour, followed by "ABC R. 2" ID, then "Nat'l Nx of the ABC." o/JOIB. WRTH lists this as ABC R. 3. // 2GL-820. (Tomer, CA)  
 +slow fade in/out for 20 minutes. Light mx & male ancrr w/accent. Hrd 5/23 & 5/24 1226. (Young, CA)
- 750 JAPAN, Sapporo, JOIB, man in JJ good, mixing w/KMMJ 1203 MM 9/14. (Pejza, CA)  
 +hrd 1253 in JJ w/man talking just before getting wiped out by KXL s/on 1255. Fair-good. 750, 770, 830 & 1210 are freq the Japanese always boom in on. (Szot, CA)  
 +NHK 2 in w/EE nx 1012 9/29 as per usual sked. (Peterson, CA)  
 +JJ talk by OM on top of WSB 1033 9/30 good. (Bodell, OR)  
 +fading in & out 1310-1315 10/28 w/man in JJ. Very good 1312, almost armchair quality. (Pejza, CA)  
 +w/EE lessons briefly o/WSB 1028 11/3. (Korn, CA)  
 +w/gal talking in JJ 11/3 1226. (Pejza, CA)  
 +putting in weak JJ 1252 2/23 w/possible KFQD in back o/u KMMJ pest. (Rittenhouse, CA)
- 750 KOREA-SOUTH, Kwangju, HLKH, KBS. While listening to JOIB EE nx noticed another signal behind 1015 9/29. Checked for // w/HLKG and was !!! New for me. (Peterson, CA)
- 750 NEW ZEALAND, Greymouth, 3ZA, is now staying on until 1105. (NZDX)
- 754.9 <sup>?</sup> UNID, new mystery hrd w/singing 1300 11/3, nothing listed but suspect China or N. Korea. (Peterson, CA)
- 759.5 <sup>?</sup> UNID, carrier hetting 760 1228 9/28. Looped TP but no audio due to KCBS/KFMB. (Rittenhouse, CA)
- 760 <sup>t</sup> CHINA, unk loc, may be the source of CC talk way u/KFMB 1214 9/28. Don't know if related to 759.5 noted later. I think CC has been hrd here before. (Rittenhouse, CA)  
 +in weak 0922 10/6 w/WJR looped. Usual pgm. (Peterson, CA)  
 +audible u/KFMB OC, some QRM from WJR, 1140 10/20. (Peterson, CA)
- 760 <sup>t</sup> HAWAII, Honolulu, KGU, 1005 w/pops by Chicago, Janis Ian, etc. Continental US stn underneath (WJR?) IS 1009 9/1. (Szot, CA)  
 +prob the stn strong u/KFMB 1211-1218 12/26 w/talk, inst mx & what sounded like KGU jx 1218. This should have been too late for WJR. (Rittenhouse, CA)
- 760 NEW ZEALAND, Auckland, IYA, noted w/old jazz 0930 5/3, followed by comedy, NZ TC 0945, piano mx 0955, then pips on hour followed by NZ nx. // 860 w/nil-good sig. Some QRM (KGU?) but often dominant. (Hall-Patch, BC)
- 760 VIET NAM, VOA transmitter which was here was fitted in three transportable vans and dismantled and shipped out of the country in March 1975. (MWN, June)
- 770 AUSTRALIA, Melbourne, 3LO running // 6150 w/"Because" w/male singer 5/23 1307. (Young, CA)

- 770 JAPAN, Akita, JOUB, noted fair o/KOB w/man talking 1207 8/11. First time hrd since late spring, along w/JOGB, JOBB, Shanghai, KFQD, on what was a good northern opening. (Ford, BC)  
 +JJ talk u/KOB good 1031 9/30. (Bodell, OR)  
 +really ripping KCB 1101 9/27 w/YL // JOBB/JOIB. (Rittenhouse, CA)  
 +10/27 1215 probably faint JJ u/overpowering KOB. Could not hear much but male ancr sounded like one on JOBB. (Lobel, CA)  
 +fair u/KOB w/JJ talk 1305 10/28. (Pejza, CA)  
 +must have been the one w/JJ talk by man & woman u/KOB 10/3 1238. Hrd NHK ID at 1240, "Nippon Hosokyo Kyokai." (Lobel, CA)  
 +NHK 2 blasting in way o/KOB 1035 11/17 w/EE lessons. (Peterson, CA)  
 +giving KOB trouble all AM 2/23. Especially good 1220 w/NHK ID by YL. (Rittenhouse, CA)  
 +4/11 in steady u/KOB 1230-1400 w/JJ. Bombed out by KXA s/on 1400. (Tomer, CA)
- 774 <sup>a</sup> KOREA-NORTH, Hyesan, prob the source of carrier noted various times 9/27 & 28 AM's. (Rittenhouse, CA)
- 775.4 KOREA-NORTH, Hyesan, R. Pyongyang good signal w/talk in KK 1019 9/29. Slop from KOB. (Peterson, CA)
- 776 KOREA-NORTH, Hyesan, presumed this 9/29 1338, seemed // 725. (Seaver, CA)
- 780 JAPAN, synchros fair w/JJ talk 1323 3/22. (Bytheway, WA)
- 780 NEW ZEALAND, Dunedin, 4YA, noted 6 pips at 1100 & 1200 3/22 but too weak for def ID, however, NZ nx, wx & TC noted after 1200 w/fair-good sig. Drowsy: mx noted between 1100 & 1200. KCRL off, nulled WBBM. (Hall-Patch, BC)
- <sup>t</sup> +fair 3/22 w/jazz & accented EE 1226. Sounded like DJ show w/short anmts between records. 1242 mentioned "Downtown ...", 1300 6 pips & nx, 1304 mx pgm. (Bytheway, WA)
- 782 <sup>?</sup> UNID, carrier detectable 0930 10/6 looping TP. Too much KCRL-780 slop to pull any audio. USSR listed. (Peterson, CA)  
 +made it w/audio 1115-35 10/20. Bad slop from KCRL-780. Freq measured as 781.997 (est error .4 Hz + gating error) at 1120. Lang sounds like RR & good freq accuracy suggests listed USSR but no IS on 1/2 hr nor during recheck at 1300. (Peterson, CA)  
 +again 1215 11/3 w/what sounded like RR lang. (Peterson, CA)
- 785 KOREA-NORTH, R. Pyongyang, most likely the carrier noted 1255 9/15. (Peterson, CA)  
 +putting in carrier 1236 9/25 o/u KCRL slop. This always seems to be in when 725 is. (Rittenhouse, CA)  
 +1359 9/28 Korean mx, time pips 1400 into strident KK by YL. (Szot, CA)  
 +fair signal w/some slop from KCRL 1027 9/29. Talk in KK. (Peterson, CA)
- [ 790 SINGAPORE, R. Singapore, hrd here 5/8 1525 in EE w/request pgm, mx & nx. XInt sig almost as good as local. (Baker, SA)
- 798 <sup>?</sup> UNID, carrier 1220 1/5 rather weak. China listed. (Peterson, CA)
- [ 810 AUSTRALIA, Perth, 6WN, hrd 8/19 2201 w/nx in EE & fair to good signal w/het & QRN. (Baker, SA)
- 813 KOREA-NORTH, Kaesong, presumed the one throwing a fantastic het on 810 w/Oriental mx & talk 1210 9/8. Gone by 1220. (Clements, CA)  
 +last season was on 817, now down to listed freq. Noted 1037 9/29 w/talk, sings in KK // 785. (Peterson, CA)  
 +presumed 2nd net weak 9/29 at 1104 // 876. (Seaver, CA)
- [ 816 <sup>v</sup> KOREA-NORTH, Kaesong, presumed, drifting here 10/26 1140. (Seaver, CA)  
 +1145-1250 // 655 & 874. Mx & talking MM 11/17. (Erickson, CA)  
 +good signal w/usual garbage 1055 1/5. (Peterson, CA)
- 816 <sup>?</sup> UNID, weak signal noted 1040 10/27 possibly the North Korean up from 813. (Peterson, CA)
- 816.8 <sup>?</sup> UNID, S. Korea suspected; cl, violin mx 1333 10/13; man in what sounded

like KK o/mx 1334; fading in & out; choral group 1351 good; man talking o/hour, no pips. (Pejza, CA)

817

KOREA-NORTH, believed the one noted 1352 10/25 w/KK chorus in weakly. Seemed // 655 but not sure. (Portzer, WA)

820 AUSTRALIA, Glen Innes, 2GL, Singers w/"The Way We Were" at 1225 // 830, 5/23 & 24. (Young, CA)

820 JAPAN, synthros, presumed the one w/woman in JJ 10/14 1351, singing 1355 Soft spoken man & girl until 1400, no pips hrd. Second stn under w/mx, choral singing, but lang not IDable. KGO slop. (Pejza, CA)

820 <sup>t</sup> KOREA-NORTH, Najin, 9/8 1258-1305 a man talking in what sounded like KK, three 10-20 sec silences, no tone pips or anything on hour. Good strength but faded right out at 1306. (Ford, BC)  
+in & outing it here 1225 9/23. Clearly atop in KK talk w/China wailing under. (Rittenhouse, CA)  
+again fighting WBAP remnants 1212 9/28. This time KK atop just o/WBAP w/CC way under. (Rittenhouse, CA)

820 <sup>?</sup> UNID, maybe the same one as 816.8, this one hrd 10/10 1356-1400, lots of KGO slop, man talking in JJ or KK, apparent speech 1359 w/cheering, no pips on hour. (Pejza, CA)  
+distinct sound of 2 stn interference, beating, found here MM 2/2 w/WBAP off & HJED nulled so was looping NE-SW. Was found every time checked from 0820 to 1040 when WBAP returned. Presumed sig from SW never attained audio. Has anybody ever hrd NZ here? (Martin, CO) (Not in recent years that I know of, Gene, tho somebody probably did in the days before WBAP went NSP - ed)

830

AUSTRALIA, Geraldton, 6GN, hrd 8/19 at 2059 s/on & wx report. A fair to good signal w/QRN. (Baker, SA)

830 AUSTRALIA, Sale, 3GI, 1305 1/4 noted w/nx, sports & wx for Melbourne and Victoria area, then "more nx at 5 to 12 on 3LO and the regional stations, 3AR and the regionals. It's 10 past 11." Fair signal, not much fading, better than presumed 4RK-840. (Hall-Patch, BC)  
+light jazz mx titled "A Time for Love" at 1222 // 820 5/23 & 24. (Young, CA)

830 HAWAII, Honolulu, KIKI, good w/almost local strength 8/7 1153-1200 w/rr & ID. (Rittenhouse, CA)  
+fair w/rr 0710 11/3. WCCO nowhere to be found at the time. (Portzer, WA)  
+assumed the one w/throbbing rock mx looping towards Hawaii 0714 1/26. No sign of WCCO, tho they were in well later. Similar situations have been noted on other MMs. Does anyone know if this is WCCO's regular MM SP? (Portzer, WA)  
+in loud and alone after WCCO fade out 6/25, rr mx, KIKI Editorial 1310. (Tomer, CA)

330

JAPAN, Osaka, JOBB, noted alone w/talk 1207, 1234 8/11. (Ford, BC)  
+assumed to be the one w/JJ weak-fair 1230-1235 8/11. Good northern night w/Canadians and China-1040 crashing in. (Rittenhouse, CA)  
+very good 9/1 1112 at BARF in Hayward, CA. Critical null brought WCCO back but JOBB way on top. (Rittenhouse, CA)  
+1137 9/6 man in JJ mixing w/WCCO. (Pejza, CA)  
+my first JO since 3/6/72. Taped the JJ pips 9/9 1200 as the highlight of about 45 mins spent on this freq. Denver sunrise was 1234 this date and JOBB was IDable as late as 1225. Stn was first spotted as JJ 1140 w/WCCO nulled, lady anc'r after few mins of mx. By 1205 to 1220 signal had improved enough that it was necessary to null JOBB to locate WCCO signal and Japan was being hrd over about 70° of the loops swing, the carrier above 9 db. Failed to notice any traces of Hawaii. Female voice most of the time after 1200 but occasional exchanges w/man's voice. Cannot say that I find much similarity between SS & JJ for the latter's cadence seems much different. Have hrd this stn in previous years but never before w/such a fine signal. (Martin, CO)  
+NHK 2 was in 1007 9/15 w/fair signal and some WCCO QRM. EE nx was being read on the same sked as last year and agrees w/WRTH listing. EE nx runs 1000-15 followed by EE lessons. Hearing nx from the JJ viewpoint is an interesting break from DX and I recommend it. By 1025 the signal was exceeding WCCO. (Peterson, CA)

- +1303 9/8 w/male JJ. Some flutter, poor. Tune back at 1320 for JOBB ID. (Sanserino, CA)
- ? +coming in w/local strength w/woman 1226 9/23. (Rittenhouse, CA)
- +crashing in almost like a local all AM 9/27 & 28. Was starting to fight WCCO around 1000 and totally dominant by 1130. Both AMs there was another stn clearly audible underneath. Best 9/28 1210 when in choral mx Talk is pretty rare and can't ID the lang but could be Thai. (Rittenhouse, CA) (Hawaii or China more likely - ed)
- +very good 1325 10<sup>1</sup>/13, man in JJ. (Pejza, CA)
- +usually the second JJ (after JOIB) to appear. Good 10/27 1100 w/pips, NHK ID, then into high school EE pgm. (Seaver, CA)
- +man in JJ u/strong WCCO 10/27 1205. Could barely hear JOBB 1208. (Lobel, CA)
- +fair w/JJ man talking 1305 10/28. (Pejza, CA)
- +w/brief musical interlude, then NHK ID 1240 MM 11/3. Faded quickly. (Pejza, CA)
- +fair in passing 1:45 11/15 w/male talk in JJ. TPs not too hot that morning, only this and very weak 548 and 1040 were noted. (Portzer, WA)
- +good 1224 12/1 w/usual JJ talk. Only other TPs noted that AM were weak 655 and 1475 carriers. (Portzer, WA)
- +very poor 1056 12/21 w/JJ o/u WCCO/KIKI. MWA is obviously in full force now as A-index was low and mid latitude US stns were very good that AM, but TPs were almost impossible. (Rittenhouse, CA)
- +good signal begining nx in EE as usual (runs 15 mins, then EE lessons) 1100 1/5. (Peterson, CA)
- +1445 2/19 in loud, clear and steady--very satisfying after dearth of TPs. 655, 647 noted but no 1040--just KHVH. (Hall-Patch, BC)
- +fair 2/28 1238 mixing w/WCCO. (Pejza, CA)
- +as usual the powerhouse of the JJs really ripping WCCO all AM. NHK pips quite strong at 1200 w/WCCO looped almost completely. (Rittenhouse, CA)
- +assumed the one 3/8 w/EE nx 1015-30. Clear "NHK" voice ID at 1030 but never caught call letters. NHK time pips on the hour. // to 750. First TPs received here, easy as pie w/new loop. (Tomer, CA)
- +1403 3/16 w/EE pgm, talk about poetry in EE, fair. (Williams, OR)
- +1340 3/23 w/male ancw w/"NHK A-1 English Language Lesson 17, part 4" till 1400 pips and woman in JJ. Good signal. (O'Hare, WA)
- 830 ? UNID, weak stn u/JOBB 1325-30 10/13, sounded like CC, some mx. Fukien province listed. (Pejza, CA)
- 835 ● CHINA, Nanchang, woman in CC 1136 9/6. (Pejza, CA)
- +9/8 1215-33 alternating man and woman talking, inst anthem (international?) at 1228, silence, woman speaking again 1230 (began w/a very clear "Chunyang jenmin kwangpo tiantai" - have still to find out from friends which CC language) into oriental vocal mx at 1231 $\frac{1}{2}$ . No anthem on half hour after short silence. Good strength at peak, particularly after half hour, moderate QRM from JOBB-830, severe fading. (Ford, BC)
- +female CC, CC mx, time pips 1300. Same format as past seasons. Poor 9/8 (Sanserino, CA)
- +in well 1227 9/23 w/man in frenzy. First time this year. (Rittenhouse, CA)
- +w/good carrier 1107 9/27 and fair w/man 1208 9/28. (Rittenhouse, CA)
- +strong w/CC male talk 1303 9/28. (Pejza, CA)
- +9/29 first audible at 1125, good S6-8. The language on this stn sounds different from that hrd on Northern stns. Cantonese? (Seaver, CA)
- +emphatic CC talk by man, fair to good 1242 9/30. (Bodell, OR)
- +man in CC fair 1335 MM 10/6. Once I log these common TPs I don't ordinarily stick around very long. (Pejza, CA)
- +audio hrd 1300 10/10 plus ID. (Szot, CA)
- +at 1057 10/20 w/man talking CC. S-5. New. (Hanavan, CA)
- +in 1050 10/20 w/usual pgm. Good signal. (Peterson, CA)
- +strongest TP on the dial 1411 10/25 w/wild CC singing. (Portzer, WA)
- 840 t AUSTRALIA, Rockhampton, 4RK, poss the source of weak audio here 1135 8/7. Couldn't make out pgm but 2NR-700 and Hawaii good that AM. (Rittenhouse, CA)
- t +could be the one noted 1224-35 12/26. Hrd accented EE by man 1224-25, mx 1225-28, talk by woman to 1230, then man/woman alternating 1230-35. The audio was too muffled to make out what was said and there was no apparent ID at 1230. Looped right for DU and Hawaii was in well that AM. Not a peep from the normally dominant JJ/RR combo. (Rittenhouse, CA)

- +1300 1/9. Poor-fair w/pops, R. 3 ID, TC and pips followed by nx. (Hall-Patch, BC)
- +1254-1310 fade out 2/28. 1259+ anmt about mx from Brisbane studios. Time pips 1300. Nx and ABC ID 1306. (Williams, OR)
- +most likely, in good at times 4/19 1300-1400 w/lively flute and jazz mx and 5 long pips on the hour. Hrd again 4/23 1209-21 w/"The Goons" comedy show, then into quiet mx 1222. (Tomer, CA)
- 340 t JAPAN, Niigata, JOQK, likely the weak stn apparently in JJ 1312 8/29. Could also be the RR. (Rittenhouse, CA)
- +JJ w/sporting event of some kind, mixing at times w/WHAS, the Russian, 4RK, and WMOB which signed on at 1130.... fair 9/30. (Bodell, OR)
- +mixing w/at least one other stn, poor-fair MM 11/3 1243-1300; pips on the hour. (Pejza, CA)
- +battling it out w/USSR 1253 2/23 w/RR man/woman alternating o/flutey stuff on JOQK. (Rittenhouse, CA)
- 840 KOREA-SOUTH, Seoul, HLKY, prob the KK mixing w/JOQK 9/29 1100-1118 w/mx program. (Seaver, CA)
- 840 ● USSR, loc unk, Mayak pgm 9/9 1129-32, repeated 8-note chime, time and Mayak ID by woman, nx. Very poor, swamped by JOQK plus an unid oriental 1132. 1218-36 classical piano mx w/male ancr, 8-note chime repeated 4 times, woman gave time ("Moskovskiyе vremya....") and Mayak ID, into man w/very clear nx, inst mx again 1234. Poor due to KTAC slop. (Ford, BC)
- +positively IDed 1300 9/15 because of "Midnight in Moscow" chimes. Signal weak and noisy. New for me. (Peterson, CA)
- +fighting it out here w/Japan 1250 9/25 w/JJ mostly atop w/talk and USSR under w/cl mx. (Rittenhouse, CA)
- +soft occidental mx 1352 1/15, man talking in JJ?, midnight in Moscow chimes 1359, pips at 1400. Second stn u/maybe 2, both CC & JJ hrd. (Pejza, CA)
- +noted w/chimes 1359 10/25 thru KTAC-850 slop. (Portzer, WA)
- +jumble w/Japan, S. Korea, fighting WHAS 1102 12/21. Hrd theme mx I recognized from the RR o/JJ/WHAS. At 1104 it seemed that another TP stn, apparently in KK, was arriving u/the pile but WHAS came up and ruined hope of anything more positive. (Rittenhouse, CA)
- 340 ? UNID, woman in language, classical oriental mx 1133 9/6. (Pejza, CA)
- +stn here w/pips beginning at 1000:01 12/27 u/WHAS. 3 pips, first 2 were 0.5 seconds long followed by 0.5 second pause, last was 2.5 secs long (- - - - -), all the same pitch (approx. 2000 Hz). There was a jumble of 2-3 stns u/WHAS at the time including some SS. No TPs or DUs in that AM so likely an LA. (Portzer, WA)
- +woman talking in unid oriental lang 0911 3/22 way u/WHAS, bits of opera type music noted around 0924. Prob the Russian. (Portzer/Bytheway, WA)
- 342 ? UNID, fairly strong carrier noted looping TP here 1253 2/23. Only thing listed is a Thai on 843. Maybe a drifting N. Korean of Chinese. Ideas? (Rittenhouse, CA)
- 344 GILBERT ISLANDS, Tarawa, VSZ1, woman talking in dialect 7/19 0810. (Pejza, CA)
- +Gilbert and Ellice Islands split of October 1, 1975. The Ellice Islands are now known as Tuvalu and have set up their own broadcast service on 580. (NZDX)
- +carrier weak to fair w/slow deep fades, occasional traces of audio including woman speaking slowly in unid language 0320-45 10/27. Direction due west. Not taped since main taping system dismantled for field antenna trials. (Nelson, MA)
- t +in well w/woman talking in vernacular 0750 10/27. (Portzer, WA)
- +presumed the stn here amid intense hets 0930-40 10/27. Man and woman alternated in slow British accented EE w/apparent children's story about "the girl w/the (magical) bow on her head." Got 4-5 mins of readable speech on tape, so am tempted to rpt as material should be verifiable despite getting no ID. Had to loop out WHAS to minimize het. (Korn, CA)
- t +a weak carrier, presumably Tarawa can be detected just in noise level on occasional nights. Noted 0845 10/28 but far below noise level (or atmos noise level too high) to be able to get any audio. Freq definitely 844 and not 845. Suggest those needing this one should check every night for openings to this one. (Foxworth, NY)
- +11/10 0800 presumed the very strong carrier and weak audio here. They've

- put a S-7 carrier in here several this season. (Keeney, KS)
- +The Ellice islands are now Tuvalu and capital is Funafuti. The 580 stns now count as separate country from 844. 844 was hrd w/fair carrier on peaks, trace of audio 0829 and 0836 11/17. Frequency and direction checked OK. Quite noticeable QSB. Should've been hrd in east by others. Cx were good w/CFK-540, CFRN-1260, etc. all in well. (Foxworth, NY)
- +finally logged 11/17 from tune-in 0740 on measured 844.058 Signal peaked around 0755 and went steadily downhill thereafter. Polynesian mx noted a couple of times and lots of talk in accented EE, perhaps 20% readable on peaks, one positive mention of "Tarawa", that and direction of 280°+5° is sufficient for me to log this one as country #132.
- (Nelson, MA)
- +hrd 0937-1005 s/cff 11/17. Pgm was a discussion of classical mx w/short excerpts of same. S/off sounded like "...this is...for R. Tarawa saying goodbye for now in a few minutes until we meet again," then native language, recording of native mx, inst GSQ, 40 second TT and finally 30 seconds of OC. Tape sent. Question: Does the horrendous het level here in relation to Tarawa's audio indicate that Tarawa undermodulates? If so they would be a real powerhouse w/full modulation. (Korn, CA) (Judging by the "good carrier, weak audio" reports I get on them, and on my own monitoring of them thru KTAC slop, I'd say they are a bit undermodulated. - ed)
- +very mushy audio w/season's greetings 0930-55 1/5. On past listed s/off. (Peterson, CA)
- t +0645 1/11 strong carrier apparent here but only slightest trace of audio so nothing positive. Noted some audio 0940 1/12, light guitar mx and YL in und language. Apparent s/off at 1000. Still no ID although signal was sometimes fair, horrendous KTAC-850 slop. (Hall-Patch, BC)
- +good here 2/16 1001 w/singing, short anmt by man (mostly unreadable) in EE, same song (very repetitive and distinctive), short anthem (GSQ), test tone and off. (Seaver, CA)
- +w/one of its best signals ever 0905-30 2/23 w/super carrier and woman talk at peaks. Decent signals on this one were conspicuously missing in December but it seemed to be back up to par. This is a good night for DU paths w/2NR-700, WXLE-1375 and Hawaii good. (Rittenhouse, CA)
- 844 ? UNID, fair carrier, very faint audio at times, strong QRM from WHAS and Jepko. Checked calibration, def on 844, looped slightly north of west, no Europeans hrd at this time, 0815-30, slight fade at times, west coast stations not very good. Tarawa on at this time. 2/16. Maybe I'm cracking up after straining to hear those CPC tests, hi. (Colyard, NJ)
- 845 ? UNID, TP carrier here 1207 9/28. KOA-850 precluded any audio. Ideas? (Rittenhouse, CA)
- 850 t ALASKA, Nome, KICY, very probably the stn in RR 0925 9/1 o/KTAC. Tuned out to hear WFGW-1010 ET and had s/off'ed by the time I got back. (Rittenhouse, CA)
- +becoming a regular at MM s/off 0945-53. Was fantastic 9/8 mentioning "owned and operated by the Arctic Broadcasting Association, a nonprofit corporation and a subsidiary of the Evangelical Public Church of America" Has been in o/u KIAC every MM since 9/1, usually w/very good strength. Seems to have religious pgm in Eskimo language sounding much like RR from 0930 or before to 0950. (Rittenhouse, CA)
- +a big suprise 0953 9/24 coming thru KOA/KTAC w/usual s/off anmts and big SSB. Had caught apparent RR 0940 and couldn't believe KICY was cutting thru KOA. Though this is easy MMs I was shocked to find it w/KOA on. (Rittenhouse, CA)
- 850 JAPAN, Uwajima, JOZU, NHK 1 hrd 1045-1100 4/19, usual pips on the hour. Had weird lang around 1045 which is why I stopped to listen. New here! (Peterson, CA)
- 850 KOREA-NORTH, loc unk, listed in WRTH '74 and FBIS logs but not in WRTH '75 is still on. With KTAC looped, N. Korea pips hrd 1100 10/27. Signal quite weak. (Peterson, CA)
- t 860 NEW ZEALAND, Rotorua, 1YZ likely the accented EE 2/16 0931-55. In and out w/LAs. No IF hrd but discussion type pgm fits. (Seaver, CA)
- +4/19 1215-1305 w/lively big-band mx, old favorites, ments of Rotorua. Very musical-sounding time pips (.....-) followed by NZ National nx on

- the hour. Wiped out by XENO 1305. (Tomer, CA)  
 +See 760 for program details. Poor-good signal w/no QRM 5/3, not even the usual LPRT hets. Both 760 and 860 also noted on TRF w/30' long wire, though at reduced volume. (Hall-Patch, BC)
- 866.4 ● CHINA, loc unk, weak signal 1045, 9/29, suspected China. Returned 1200 and confirmed ID w/6 pip time signal (5 low, 1 high all spaced 1 second rather than usual ½ second.) New for me. (Peterson, CA)
- 867 CHINA, loc unk, very weak (S-4-5) 9/29 1022-28 and 1056 w/typical CC pgm. WRTH lists a Kiangsi regional on 865 and several regionals on 860 and 870 In a full hour before 835 so probably not Kiangsi. (Seaver, CA)
- 870 ● CHINA, loc unk, powerful signal noted 1050 9/29 w/singing. Possibly foreign service outlet. Another new one for me - fantastic MM!! (Peterson, CA)  
 +CC talk by woman, 1230 "Internationale", then more CC talk, good 9/30. (Bodell, OR)
- 870 HAWAII, Honolulu, KAIM, 7/26 0910-13 fair w/ID and religious spot, MoR mx. (Albrecht, TI)  
 +assumed to be the religious pgm about equal to WWL 0132 1/19. (Portzer, WA)
- 870 JAPAN, Kumamoto, JOGB, noted alone w/talk 1207 8/11. (Ford, BC)  
 +poking in w/JJ 1219 9/25 o/unid. (Rittenhouse, CA)  
 +NHK 2 outlet S-7 9/29 1205 in JJ // 830. (Seaver, CA)  
 +// 830 2/2 1009 w/EE nxcast. WWL OC/TT on and off. Had hoped for KAIM or better, but nx of Japanese quints blew it. (Seaver, CA)  
 +1450-1500 2/19. Nil to fair signal, some CJVI-900 splash and local noise // 830 w/woman talk, then man giving ID (I presume) followed by pips at 1500. (Hall-Patch, BC)  
 +fair-good w/JJ 1254 2/23 o/dying WWL remnants. (Rittenhouse, CA)  
 +good 1325 3/22 // 830/770. (Bytheway, WA)
- 870 ? UNID, KAIM?? 2/9 w/WWL off, I found religious mx w/good direction for Hawaii 0954. Reception wiped out by unid SS s/on. Is KAIM still all religious? (I didn't hear KORL this AM so cx might not have been right for Hawaii.) I'll try again, WWL permitting. (Keeney, KS) (Sounds like KAIM, format fits. KORL and Tarawa-844 were both in well here that morning - ed)
- 873 KOREA-NORTH, Wonsan, just won't sit still. Noted on 872.8 0940 10/6. (Peterson, CA)  
 +1328 in KK on 9/15 on 877 khz. On 10/10 at 1340 and 10/11 at 1200 this was on 873. At all times hrd they were // 655. (Szot, CA)
- 874 KOREA-NORTH, Wonsan, here it is, quite strong and // 655/816 1212-50 11/17. (Erickson, CA)
- 875 KOREA-NORTH, Wonsan, usually the first TP to appear due to open frequency and higher frequency. On 9/29 good at 1012 and 1108. Level never gets above S-7 on my S-meter, mushy audio. 2nd net pgm. (Seaver, CA)  
 +woman telling a sad story w/sad mx in KK // 2850, fair-good 9/30. (Bodell, OR)
- 877 KOREA-NORTH, Wonsan, 9/9 1242-1316 mx (inst, choir, female vocal) w/woman DJ until hour, 4 tones - 3 equal pitch, last one higher, into strident talk w/man and woman alternating. Initially poor, gone by 1306. (Ford, BC)  
 +still drifting as usual. In moderately well 1000 9/15 w/talk in KK and pips on the hour (3 low and 1 high, all short). (Peterson, CA)  
 +in w/great strength 1200 9/28 w/4 pips a la NHK but w/last at slightly higher pitch. This seems a bit more stable this year, I've noticed it down to 875 once but it sticks pretty close to 877 most of the time. (Rittenhouse, CA)  
 +the first sign of a TP opening noted 0906 2/23 w/woman blabbing in KK. (Rittenhouse, CA)
- 880 t AUSTRALIA, Brisbane, 4BH, 1301-1405 4/1 definitely an Aussie in weakly w/easy listening type mx and Australian nx on the hour followed by wx. Hrd "It's 11 before midnight" at 1349. Had spots for a department store

- but did not hear what city, did not s/off at 1400. (Tomer, CA)  
 +4/21, finally!! a positive ID on the Aussie that's been bugging me every AM I've listened this month. ID 1322 as "The sounds of 4BH, beautiful mx", non-ABC, has many spots for "Kennedy's Discount Appliance Store", orchestral versions of pop hits, Australian mx, wx, sports on the hour. In good (sort of) after KRVN fade-out. (Tomer, CA)
- 880 KOREA-SOUTH, Taejon, HLKI, poor-good 10/24 1350-1400. Talking by woman, then man. Pips at 1400 followed by ID call letters in EE, fairly good at that point but faded again. Second very weak stn under at 1359 w/mx. KBS pips are very similar to NHK but slightly lower in pitch methinks. ( \_ \_ \_ ). (Pejza, CA)
- 880 NEW ZEALAND, Auckland, LYC, assumed to be the classical mx in well 0132½ 1719, looping DU. (Portzer, WA)  
 +fair-good w/classical/symphonic mx looping DU 0755 3/7. Anmt by woman 0800 mentioning NZ and mixing w/Cuban while trying out Tim's wedge. (Portzer, Bytheway, Kayser and O'Hare, WA)  
 +apparently in the form of an unmistakable soprano solo rising briefly above the hash 0812 4/3 w/the Cuban on OC and no trace of WCBS all nx stuff. This was the only definitive thing noted in 20 mins or so of monitoring and came through best w/loop almost due east-west which gave me a rather strong Cuban signal. Nulling the Cuban didn't help in this case for that greatly intensified the noise level. (Martin, CO)  
 + "The Butterfly of Love" song 1359, no ID heard 1400, 5/23. (Young, CA)
- 880 ? UNID, MM 10/6 1329 very faint, CC sounding mx, faded quickly. (Pejza, CA)  
 +mixture of orientals 10/16 1350-1405. CC singing first thing hrd, then after a fade, talk in JJ or KK w/mx under, man and woman talk until the hour, only one long pip hrd 1400 followed by woman in CC. Lots of noise, mostly I think from a low het between the stns. (Pejza, CA)
- 885 ? UNID, carrier looping S. Asia 1244 9/29. Would like to think it was Malaysia, could make it some day w/200 kw. (Peterson, CA)  
 +carrier present here 10/16 1354. No audio so switched back to 880. (Pejza, CA)
- 890 t ALASKA, Adak, AFRS, must be the stn noted o/looped WLS w/pop mx and 90% sure AFRS ID by man 1127 9/15. KICY/KFQD both good that morning and cx favored this reception. (Rittenhouse, CA)  
 +coming o/JJ/CC/KK 9/24 1323 w/EE by man. Also w/pop mx and talk in EE 9/25 1200-1300 on various fade-ups. (Rittenhouse, CA)  
 +presumed the one u/HLKB 10/21 1349-1400. Rock mx, EE DJ but no ID hrd. (Pejza, CA)
- 890 AUSTRALIA, Adelaide, 5AN, noted here 8/19 w/nx and wx w/a poor signal, later improving at 2115 to an excellent signal. Not noted too often in this part of the world. (Baker, SA)  
 +5/22 most likely w/accented EE and rr mx pgm 1345-1400. Weak w/deep fades. 5 long pips on the hour. (Tomer, CA)  
 +a Perry Como record, "Catch a Falling Star" at 1247 o/KBYE 5/23 and 24. (Young, CA)
- 890 • CHINA, Nanking, 1309 9/15 w/very emphatic CC by a woman. // 4915. Mixing w/something in KK. No sign of JOHK though, gone by 1312 but at peak was equal to 1040 khz. (Szot, CA)  
 +began to come up u/JOHK at 1310 9/15 and by 1311 was on top, by 1311½ was way on top, swamping everything on the channel. New for me. Two regionals listed so could be either or both if //. (Peterson, CA)
- 890 JAPAN, Sandai, JOHK, noted in passing w/JJ woman 1313 8/29. (Rittenhouse, CA)  
 +JJ woman talking 1130 9/6. (Pejza, CA)  
 +1310 9/8 w/male JJ. Fading, poor. (Sanserino, CA)  
 +NHK 1 was in well more or less w/out QRM 1307 9/15 until China came in. (Peterson, CA)  
 +mixing w/China and S. Korea and Alaska 1320-30 9/24. JOHK was usually on top w/HLKB and AFRS occasionally fading through w/KK and EE respectively and the CC on bottom w/choral mx. This is a very messy freq in the winter. I wonder when I'll get 5AN and Fiji! (Rittenhouse, CA)  
 +w/man in JJ 1304 11/3. (Pejza, CA)  
 +hrd w/NHK 1 pgm 11/17 0909-1001. At 1000 man said, "Sendai, J-O-H-K" and NHK pips. (Seaver, CA)

- +mixing w/S. Korea o/u WLS all AM 2/23. JJ was noticeable as early as 0908 w/woman ripping WLS and JJ/KK combo was dominant 1255. (Rittenhouse, CA)
- +NHK pips hrd 1200 2/28 but not much else. (Pejza, CA)
- 890 KOREA-SOUTH, Pusan, HLKB, mixing w/Japan all AM 9/29, dual set of pips at both 1100 and 1200, at 1315 the JJ was on top in the clear. (Seaver, CA)
- +mixing w/Japan MM 9/14, HLKB assumed the one dominating w/oriental mx 1248, mixture of pips 1300. (Pejza, CA)
- 890 NEW ZEALAND, Wellington, 2ZW, "Radio Windy" is here permanently since January 25, 1976. (Branks, NZ)
- 890 PHILIPPINES, Tawi-Tawi, Sulu, 5 kw is in operation and belongs to Nation Broadcasting Corporation. This is now the southernmost station in the Philippines. Call letters are DXTR. (Taylor, IN)
- 920 ALASKA, Soldotna-Kenai, KSRM, 9/8 0837-0908 w/"Songs in the night" religious pgm, "This is inspirational radio on KSRM, Soldotna" on hour, into nx, wx, vocal religious song, instrumental SSB, off 0908. Fair w/unid EE and fading. (Ford, BC)
- +much wanted finally bagged 9/29 w/religious talk 0720. Seemed to go into hymns or soft MoR 0730. Finally caught ID 0800. Very messy reception w/local KIXI-910 ruthlessly pounding out the slop all the way. (Portzer, WA)
- 920 CHINA, loc unk, 9/8 1147-58 mixed pgm, man/woman talking, instrumental/vocal mx. Uncertain which oriental language. Poor w/unid EE until wiped out by KOLO/KXLY s/ons 1159. (Ford, BC)
- 920 THAILAND, A ban has been put on all EE (and other foreign language) broadcasts from commercial and military stations. The only EE service now available on Thai radio is that of Radio Thailand announced in Bangkok newspapers to be broadcast every morning 0630-0830 local time, on 920, 9650 and 11905 khz. (Ryden, SW)
- 935 UNID, something putting good carrier through KFRE slop 1121 9/28 looping TP. Is this USSR as reported a couple years ago or something else? (Rittenhouse, CA)
- 973 USSR, Yuzhno-Sakhalinsk, only a carrier. 1216 MM 9/14. (Pejza, CA)
- +putting in good carrier w/weak audio 9/28 1059. Seemed a bit below 973, maybe 972.5. (Rittenhouse, CA)
- +3/16 very weak 1335-41 (lost), classical piano mx, no anmts, severe adjacent channel slop. (Williams, OR)
- 975 CHINA, Harbin, putting respectable carrier through 970/980 slop 1255 $\frac{1}{2}$ , 2/23. (Rittenhouse, CA)
- 976 CHINA, Harbin, in very nicely w/CC 1059-1100 9/28. Unfortunately a fade wiped out any chance for pips. (Rittenhouse, CA)
- +CChrd 9/29 1145 w/KFWB-980 OC and 973 het. (Seaver, CA)
- 976.8 UNID, carrier at 1118 9/29. China-975 off freq?? (Peterson, CA)
- 995 UNID, I was getting here last spring is back this season. It had a fair carrier 1120-1223 9/28 though no audio was possible due to KKIS slop. Someone out of KKIS' range should give this a shot. (Rittenhouse, CA)
- +mystery carrier showing up again 1256 2/23. This has been noted several times since last spring during good openings w/KKIS wiping out all hope of audio and KOMO no help either. (Rittenhouse, CA)
- 996 UNID, sounded CC 9/29 1151 quite weak (S-4). There is a USSR CC service listed in WRTH on 995 in addition to 990 and 1000 CC stns. (Seaver, CA)
- 997 UNID, carrier at 1123 9/29. China? (Peterson, CA)
- 1000 CHINA, Unid Mandarin here 10/20 1100 w/weak pips, anthem, CC pgm. (Seaver, CA)
- 1000 NEW ZEALAND, Tauranga, 1ZD, prob the accented EE 2/16 0914-20 w/nx or discussion and then mx. Lost to Colombian and noise. (Seaver, CA)

- 1005 ? UNID, carrier looping TP. Hrd 1022 9/15. Something to watch on good TP mornings. (Peterson, CA)
- 1010 JAPAN, Osaka, JONR, 9/8 1057-1100 EE rock mx, woman then man speaking, assorted pips on hour (one lot had 6 single pips, another was 3 double ones.) Poor w/Magadan and XEHL. (Ford, BC)  
+Asahi Hoso sneaking in u/mucho QRM. Woman talking hrd 1313 9/15 just before having to get ready for work. (Peterson, CA)  
+good signal at 0930 10/20 w/talk in JJ. (Peterson, CA)
- 1010 PHILIPPINES, Zamboanga City, DXXX, is at least partly intended to reach the East Malaysian state of Sabah, and serves as the reply to Sandakan-1475. Power has been quoted as 100 kw, but I believe that the announced 25 kw is more probable. (Taylor, IN)
- 1010 USSR, Magadan, 9/8 1029 repeated 8-note chime, Mayak ID and nx by woman, into instrumental mx, a 10-note chime (the one given in WRTH) repeated 4 times, then woman talking. Good signal at peak w/severe fading and bad interference from both JONR and XEHL. (Ford, BC)  
+hrd after many tries w/8-note Midnight in Moscow chimes (abbreviated from usual chimes) 1029-30 10/20. About equal JONR strength. (Peterson, CA)
- 1010 ? UNID, something u/domestics here 1223 9/28 in language w/KK ring to it. Looped right but maybe a domestic in special pgm or something. (Rittenhouse, CA)
- 1013 ? UNID, carrier here 1219 9/28 w/some audio poking through slop. Any ideas? (Rittenhouse, CA)
- 1020 CHINA, Fukien province, caught 1035-37 9/15 before TT from KGBS, fair signal w/singing. KDKA looped. (Peterson, CA)  
+a real shock w/clear CC mx o/u 1020 domestics 1114 9/27. Have hrd before but can't remember it getting through w/domestic on so strong. (Rittenhouse, CA)  
+3/22 1134 $\frac{1}{2}$  w/man and woman in CC jabbering back and forth. Good signal. (Bytheway, WA)
- 1020 TONGA, Nuku'alofa, A3Z, 1/13 0745 w/various types of mx and unid language. Then accented EE at 0800 w/Acker Bilk tunes, etc. No ID hrd but hrd snippets of Polynesian mx w/voice. Fair-good until 0800, then poor-fair. Readability mostly poor but sent tentative report to station. (Hall-Patch, BC)
- 1030 CHINA, Kweiyang, an even bigger shock 1113 9/27 w/CC talk mixing w/XEQR just u/KTWO. (Rittenhouse, CA)
- 1040 CHINA, Shanghai. alone and weak w/CC vocal mx and woman ancr 1223 8/11. (Ford, BC)  
+had winter type signal 8/11 1228-1305 w/ usual mx and Peking Hoso IDs on hour. Is anyone else hearing this with any regularity this summer? (Rittenhouse, CA)  
+Foreign Service in JJ w/woman 1150 9/6. (Pejza, CA)  
+in weak 1130 9/1 w/WHO nulled. Mx and talk in JJ leading up to ID. Much better 1043 9/15 w/usual JJ talk and well o/WHO even w/o loop. (Peterson, CA)  
+the best TP 9/24 and 25. It would start tearing up WHO around 1000, gradually building up until after 1130 when it was local strength for the rest of the AM until 1400 when it was quite light here. (Rittenhouse, CA)  
+Peking Hoso completely swamping WHO at 1130 9/29 w/ID. (Peterson, CA)  
+potent all morning giving WHO/KHVH a heck of a time from about 0930 on w/assumed JJ Foreign Service. (Rittenhouse, CA)  
+at 1241 10/20. Strongest TP this morning. A steady S-8. KHVH far under w/NBC NIS. (Hanavan, CA)  
+very strong carrier but only fair audio w/CC chorus 1420 10/25. Anyone else noticed them like that? (Portzer, WA)  
+poor-fair 10/23 1348 but still in after local sun rise in JJ 1438 10/27. (Pejza, CA)  
+12/22 1100 very weak u/WHO w/oriental mx. (Lobel, CA)  
+man and woman talking in JJ followed by mx. Faded in and out but good signal o/static 2/22 1200-30. (Wilson, CA)  
+4/17 1245 in CC w/woman teaching little girl lessons about something.

- (Tomer, CA)  
 +5/9 1230 w/amnt in JJ. Fair S-5 signal u/noise from neighbor's goldfish tank heater. (Lobel, CA)
- 1040 HAWAII, Honolulu, KHVH, 7/27 0608-10 fair w/slogan "KHVH, all nx, 24 hours every day", then national news. (Albrecht, TI)  
 +finally getting through CC pest 1205 8/7 in nx or talk w/ID. CC buried it 1205. (Rittenhouse, CA)  
 +in a big battle w/China 8/29 1315-30 both w/local strength at times. KHVH had NNIS at this time, about the best ever for this station. (Rittenhouse, CA)  
 +10/23 1349-1400, EE nx, much slop. Poor but up for ID 1349 w/ID as "24 hours a day." (Pejza, CA)  
 +hrd 11/24 0952 w/NBC NNIS u/WHO. Later, at 1045, they were o/WHO w/NNIS ID. No KHVH ID hrd but assume it was them due to format. (Orren, WA)
- 1040 NEW ZEALAND, Dunedin, 4ZB, in weak but fairly steady 4/23 w/American rr mx 1145, NZ nx 1200 "4ZB wx" 1206, s/off 1207. O/KHVH, no China for once was looking for WBZ but thanks to inaccurate dial on DX-160, got 4ZB. (Tomer, CA)
- 1050 HONG KONG, Commercial Radio's English service here is now identifying as "1050 Radio". (Ryden, SW)
- 1050 WESTERN SAMOA, Apia, 2AP, hrd 9/3 0900-1000 s/off w/shipping nx and drama "Great Romances". Last half hour w/Boston Pops latin mx. Announcing as "Channel 2, 2AP, Apia". This is a new frequency replacing 1420. All amnts and nx in EE and Samoan. Good signal w/very little interference or noise. (Trubee, HI)
- 1054 ? UNID, carrier 1135 9/29. China down a hair? (Peterson, CA)
- 1060 NEW ZEALAND, Gisbourne, 2ZG, 7/14 0602-06 poor-fair w/nx, wx and ID, rr mx. (Albrecht, TI)
- 1070 NEW ZEALAND, Auckland, 1ZB, 7/14 0654-0700 fair w/rr mx, then "1ZB Hotline News". (Albrecht, TI)
- 1080 HAWAII, Honolulu, KIOE, back on the air here with what I assume is 5 kw. Programming is mostly rr mx. Be careful as the ID sounds like K-108 (Kay One Oh Eight). (Trubee, HI)  
 + "K-108" ID noted in CFAK-1070 splas. 1017 3/22. Poor-fair signal. (Hall-Patch, BC)
- 1120 AMERICAN SAMOA, Leone, WVUV, now calls itself R. Samoa, 10 kw, and is now 24 hours. It has been leased by the U.S. Government to a private company and announces "The News and Music Center of the South Pacific." (SCDX)  
 +8/1 0703-10 fair w/R. Samoa ID and "WVUV, the bright and shiny sound of the South Pacific" slogan, U.S. nx and rr mx. (Albrecht, TI)
- 1130 HAWAII, Kailua, KLEI, 0910 10/6 w/man IDs as K-lay. One ID was "This is KLEI, Kailua, the windward giant", another was "Tell a friend about K-lay". Local KSDO off. (Lobel, CA)  
 +11/10 0808 w/light rr and a K-lay promo. Spot for First Hawaiian Bank at 0811. "This is K-L-E-I, Kailua" ID 0817. This per tip from Nittler. Hrd most of the morning u/several OCs. The aurora wiped out pests WCAR and CKWX. (Keeney, KS)
- 130 JAPAN, Tokyo, JOQR, Bunka HoSo assumed to be the JJ behind CKWX 1115 11/10. Surprising since TPs poor that morning. (Peterson, CA)
- 1140 JAPAN, Kyoto, JOBR, Kinki broadcast system, faint JJ talk 0920 9/15 w/KRAK off and no other interference. This one rare for me. (Peterson, CA)
- 1140 PHILIPPINES, Poro, VOA relay w/talk in Vietnamese 6/29 1446. Good w/excellent signal during time monitored. Observed signing off 1500. (Baker, SA)
- 1170 <sup>t</sup> ALASKA, North Pole, KJNP, could be the stn in religion o/u KVOO w/KLOK off 0934-54 9/15. KLOK back on 0954 killed shot at 1000 s/off. KJNP is supposed to be religion and Alaska was good that morning on 750/850. Still no positive ID and might be something else so won't count it. (Rittenhouse, CA)

- 1178 **RYUKU ISLANDS**, Okinawa, Naha, VOA, Be advised that this stn is not in Naha, nor could it be. Okuma is 55 miles NE of Naha, on the Northern tip of Okinawa. KSBU-1360 (Far East Broadcasting Co.) was its immediate neighbor, according to FEBC personnel, (until reversion of Okinawa to Japan in 1972, forcing close down of KBSU) and in fact some VOA personnel aided (gratis) in KBSU's construction. (Taylor, IN)  
 +making it back w/usual het 1336 8/29. Getting near sun rise here and already daylight outside. (Rittenhouse, CA)  
 +was very weak 1140 9/1 as were all TPs that AM. (Peterson, CA)  
 +woman in what sounded like JJ, lotsa slop 1216 SM 9/7. (Pejza, CA)  
 +1339 9/15 in CC w/woman and man alternating till 1340 end of nx. Yankee Doodle once and into cuts from Ford's speeches w/main points. Clear modulation quality. No splatter w/1 khz filter. (Szot, CA)  
 +putting in big carrier through KLOK/KOFI crap 1220 9/28. (Rittenhouse, CA)  
 +1125 10/20 just prior to VOA-1180 s/on. New. (Hanavan, CA)  
 +was in w/nx in EE at 1115 11/17. Assume this started at 1100. (Peterson, CA)  
 +w/het on 1180 at each check 2/23. Had best level around 1340 when in KK. (Rittenhouse, CA)  
 +in quite strong 4/2 1329 w/VOA Okinawa ID, "the following pgm will be in Korean", and then Yankee Doodle, followed by alternating statements by man and woman in KK. (Tomer, CA)
- 1180 **NEW ZEALAND**, Gisborne, 2YW, 7/14 0835-45 good w/local and regional nx, wx and Radio New Zealand ID. (Albrecht, TI)
- 1200 **CHINA**, loc unk, w/weak talk 1221 9/28 after WOI fade. (Rittenhouse, CA)
- 1201 **CHINA**, loc unk, Fukien prov putting good het on 1200 1221 9/28. (Rittenhouse, CA)
- 1210 **CHINA**, loc unk, R. Peking hrd 6/30 1809 w/nx in EE and ID. Good signal w/het. (Baker, SA)  
 +presumed the one w/CC opera mx 1327 10/7. Good for brief male anmt, faded 1329 to Japanese stn. (Pejza, CA)  
 +0303 3/22 w/woman talking in oriental language, sounded like CC, weak-fair. (Bytheway, WA)  
 +most likely the one o/u JOOR 1238-1300 4/17 w/man, woman, orchestra, singing in CC, quite strong at times. (Tomer, CA)
- 1210 **JAPAN**, Osaka, JOOR, looping toward Japan 1211 SM 9/7 mixing w/CC. (Pejza, CA)  
 +Mainichi broadcasting system 1100-05 9/15 w/very emotional coverage of a sports event, crowd cheers, etc. Single time tone on hour. By 1105 a woman took over w/more sedate talk--perhaps a spot. Signal wavering but moderately strong, KGYN only interference. (Peterson, CA)  
 +fighting it out in CC/JJ o/u KDIA spur 1222 9/28. (Rittenhouse, CA)  
 +1148 10/20 deep u/KGYN. Poor signal. (Hanavan, CA)  
 +mixing w/China 10/24 1351-1400. Both had some singing, China w/male, JOOR w/woman and semi-western mx, pipe from Chinese at 1400, (5 long low, one high), followed by unreadable announcement. (Pejza, CA)  
 +4/11 in w/good signal, man and woman ancrs in JJ, US pop mx and what sounded like commercial spots. Much better listening than NHK's monotonous dialogs. (Tomer, CA)
- 1220 **AUSTRALIA**, Melbourne, 3ZZ, ABC Access Radio, operates 0800-1300 with foreign languages, Mon, Tue, Wed, Thurs, and English, Fri, Sat, Sun; Box 1686, Melbourne 3001. (Hauser, IL)
- 1230 **NEW ZEALAND**, Christchurch, Caterbury University Radio, "Radio U", has been given a temporary license to use 1230 from February 3 to March 6, New Zealand Time. Christchurch is sufficient address. (SCDX)
- 1240 **JAPAN**, Tokyo, JOLF, 1031 w/very bad mix w/US stn. JOLF had some very weird electronic mx sounding like sound effects from a UHF TV stn's JJ horror movie played at 2 AM Sunday morning. 1033 into Billy Preston's "Nothing from Nothing" after JJ comment by a man. 1036 after song, woman came on about "Birry Preston..." Then some EE about mx from "over there in the United States," and back into JJ. (Szot, CA)
- 1270 **HAWAII**, Honolulu, KNDI, really blew my mind 12/29. Tuned in and hrd

weird soft instrumental mx 1026, then at 1029 went into an ad for security systems mentioning Australia and done by a guy w/an Aussie accent. Really had the old heart pumping until they followed it w/an ad for US Savings Bonds! Nice KNDI ID 1031, then more mx. (Portzer, WA)

- 1290 JAPAN, Sapporo, JOHR, 9/8 1014-28 instrumental and vocal rock mx in EE (lots of Beatle tunes), slogans by woman that sounded like (70% sure) "HBC Nihon Rock", male DJ. Poor w/CHQM slop and faint unid (prob KMEN or WHIO), severe fading although good strength at peaks. (Ford, BC)
- 1310 HAWAII, Kahului, KNUI, 7/27 0618-21 fair-good w/PSA, rr mx on Big Mac request show. (Albrecht, TI)  
+2/2 0946-1001, MoR mx, slogans about beautiful mx, into s/off anmt by man at 1000, off w/no anthem, etc. Fair o/WRR w/local CHQM off. (Ford, BC)  
+6/28 w/"K-N-U-I" 0946. Rock mx w/s/off 1000. Nil to weak, KDIA off, WRR interference. (Tomer, CA)
- 1367 ? UNID, good carrier w/no audio looping NE/SW 0813-0950+ 1/26. Too late for a TA and wrong bearing for the Russian. Ideas? (Portzer/Bytheway, WA)
- 1376 ● USSR, Vladivostok, was in w/weak signal and talk 1130 9/15. (Peterson, CA)  
+in w/carrier all morning 9/27 and 28 w/some audio through KEEN slop. (Rittenhouse, CA)  
+w/fair carrier, some audio 0902 9/29 through local KRKO-1380 slop. (Portzer, WA)  
+prob this hrd 12/8 1127-1133 w/what sounded like RR, no break or IS on half hour. Scheduled in city pgm at this time. (Seaver, CA)  
+good w/mx 1140 1/5. (Peterson, CA)
- 1380 HAWAII, Honolulu, KPOI, good 0850 10/20 w/rock. (Peterson, CA)
- 1385 PHOENIX ISLANDS, Canton Island, WXLE, 8/1 0729-35 good w/"Crusaders for Freedom" pgm, then AFRTS and WXLE IDs, MoR and jazz mx after. (Albrecht, TI)  
+was in 1140-45 9/15, fair signal at time but subject to deep fades down to just carrier. Mx pgm. China listed on this frequency but not a peep or even a SAH. (Peterson, CA)  
+fantastic carrier w/moderate audio at 1147 9/29. (Peterson, CA)  
+in w/fair signal on this otherwise poor MM 1125 12/15. (Peterson, CA)  
+apparently the one w/EE and soft pop hits such as "Street Where You Live" and "Mary in the Morning". No ID heard as deep fades at appropriate times 2/23 0915-1000. (Nittler, NE)  
+w/best signal ever noted 0900-1000+ 2/23. Had really powerful carrier w/fair but mushy audio at peaks. MoRish mx came up fairly well at times but all talk (and there wasn't very much) was very fuzzy and unreadable. (Rittenhouse, CA)
- 1440 JAPAN, Sapporo, JOWF, dominant w/JJ talk 0948 9/8. (Portzer, WA)  
+coming through w/JJ mx 1109 9/28. (Rittenhouse, CA)  
+was in w/moderate signal 1135 11/10. (Peterson, CA)  
+sneaking some JJ through domestics and unid Sser 1313 2/23. Only second ever for this. (Rittenhouse, CA)
- 1470 PHILIPPINES, Iba, Zambales, DWRP, From David E. Hudson, director of engineering, Far East Broadcasting Company, comes the official word that DWRP is now active as of the end of May. Mr. Hudson writes that he made a beautiful recording of DWRP in Hong Kong on his way back to the US. No definite word is yet at hand concerning DWRP's schedule. I hope to fill those gaps soon. (Taylor, IN)  
+A DXer in Sri Lanka has positively identified a reception of DWRP. Maybe they are on with reduced power. (Ryden, SW)
- 1475 MALAYSIA, Sabah, is located at Tuaran, which is a place some 10 miles up the coast from Kota Kinabalu. Registered power is 600 kw, coordinates are 116° 11' East, 06° 11' North. (Ryden, SW)  
+at 1050 w/OC and TT, at 1054 just OC, no TT. 1056 IS of chimes and at 1100 ID by woman in Malaysian as "Ini-lah Suara Malaysia di Kuala Lumpur" Then into Tagalog. // on 15275 not hrd, 8/31. (Szot, CA)  
+R. Malaysia Sabah in but maintaining a low profile w/mx 1150 9/1.

(Peterson, CA)  
+1212 w/Tagalog (?) w/Voice of Malaysia pgm from Kuala Lumpur. Poor many days but rarely coming in good. (Szot, CA)  
+noted w/carrier 0939 9/8 and later w/usual stuff 1035 or so. (Portzer, WA)  
+only a carrier MM 9/8 1039. (Pejza, CA)  
+best ever w/local type signal both 9/27 and 28. Got excellent "Suara Malaysia" by man 1149 9/28. At 1150 and 1155 the same piece of mx was played, perhaps some type of musical signature. Was also great in passing 9/28 1110. (Rittenhouse, CA)  
+good signal but audio below par like WXLE. Talk and no interference 1150 9/29. (Peterson, CA)  
+1136 10/20 just a carrier. S-4. New! (Hanavan, CA)

1525 ● USSR, Khabarovsk, 1240 8/15 in RR w/classical piano mx. (Szot, CA)  
+really belting in 1307 8/29 w/opera and fantastic carrier almost equal to KFBK. Their slop no problem at all. (Rittenhouse, CA)  
+belting in 1143 9/27 in RR and 1110 9/28. (Rittenhouse, CA)  
+ID and 6 pips (home service) hrd 1100 10/13. Pips are all the same pitch (Peterson, CA)  
+w/big carrier 1242 and strong RR home service pgm 1313 $\frac{1}{2}$  2/23. (Rittenhouse, CA)

1525 ? UNID, woman singing, almost western (occidental) type mx, MM 9/8 1321. (Pejza, CA) (Almost certain it's the Russian - ed)

1550 AUSTRALIA, Emerald, 4QD, 7/15 0745-0800 good w/Brisbane Stock Report, ID and 6 pips at 0800. Like a local after 0900. (Albrecht, TI)  
+0855-0910 10/27 w/nx. Faded at hour so I missed pips if there were any. At 0905 said, "This is ABC National nx". (Korn, CA)  
+surprise o/WAAY 0912 w/nx until 0915. ABC ID 0915. Opera mx then thru 0939 when tuned out. 1/5. (Nittler, NE)  
+1/19 0845 song "Spanish Eyes" hrd, followed by apparent local nx, lots of mentions of Rockhampton, then "national nx of ABC" 0900. Very poor to super signal, readable about 1/3 of the time, but much better than my 2BY-660 reception last June. Much deeper fades from 0915 on. Some KZAM-1540 splat. (Hall-Patch, BC)  
+noted in passing 0900 2/2 w/ABC nx. Fair signal, some electrical noise (local). Becoming quite a pest! (Hall-Patch, BC)  
+continuous voice but unreadable could be detected 0905-15 2/2 u/mx from WAAY, going to confirm Bill Nittler's finding that 4QD offers nx in this period. No ID was heard 0915, but at 0917 came a few bars of soprano operatic mx rising above the hash, further confirming his and my former report that 4QD goes operatic in this MM period. At 0921 a powerful OC, prob WOKJ, thumped onto the air to remain until 0948 tune-out. But kept listening anyway and was able to hear bits of opera mx at 0923, 0932 and 0938 coming thru and u/the OC. An operatic soprano is surely the best audio device ever to conquer RF noises, other stn QRM and superhetrodyne swish, beats a 400 hz tone all to pieces. (Martin, CO)  
+2/16 0910 w/talk on classical mx and some classical cuts. Quite clear. Nothing else on frequency. A few mentions of ABC. S-8. (Hanavan, CA)

1570 KOREA-SOUTH, Cheju Islands, HLDA, hrd 6/30 1453 w/EE lessons. Good to excellent signal. (Baker, SA)  
+1302 8/15 in KK w/nx by woman. "Happy Days are here Again" seems to be their theme. (Szot, CA)  
+noted here 8/20 w/what sounded like KK. A fair-good signal w/noise. ID given at 1530. (Baker, SA)  
+FEBC finally hrd after many tries 1040 10/13. Lots of XERF interference to make it tough. (Peterson, CA)

1590 NEW ZEALAND, Auckland, LXI, 7/15 0910 fair w/World Tomorrow and spot mentioning Auckland l address. (Albrecht, TI)

1600 NEW ZEALAND, Wangaratta, JNE, 7/16 0839 fair briefly w/ID and time check, rr mx. (Albrecht, TI)

AUSTRALIA, target date for new 2CC-1210, Canberra, a commercial station, is October 1, 1975. 8GO-990, Gove, NT, has been relaying cricket matches. A new Adelaide commercial station is slated for 1390 khz. The country's first women-only station is planned to be activated in Brisbane by the end of the year. Station 4WO will be run by a branch of the Women's Electrical Lobby. (Hauser, IL)

CHINA, PEOPLES REPUBLIC, nearly 1,100 MW transmitters of 0.3 to 500 kw have been registered by PRC with the International Frequency Registration Board (IFRB) of ITU distributed on most -10 khz channels, plus some -5 channels. Only one 500 kw transmitter is registered, Urumqi shi-1520 khz. 300 kw is registered for 1040-Changzhou (between Nanjing and Shanghai, used in foreign service to Japan and Korea,) 1190, 1210 and 1300 all in Kunming (Yunnan) probably used in foreign service to South East Asia (1300 khz observed while in Philippines 1970-71-ad). 200 kw is registered for four outlets (670, 1270, 1380, 1540) in Dehua ("Tehua") in Fujian prov. (probably for Fujian Front program.) Also 585-Lanzhou ("Lanchow") in Northwest China (to Inner Mongolia,) 840-Wuhan (Central China) 1170-Qabdo (in North East Tibet,) and on 1480-Wencheng, Fujian prov. 150 kw is registered for 590-Wenchang, 640 and 720 Beijing ("Peking"). There are 25 of 100 kw, e.g. 1020-Changchun (Manchuria), 1210-Yanji (used for programs in Korean,) and 1460-Huhhot (Mongol Service.) It is not known whether all those 1,100 transmitters are actually on the air, or if some registrations reflect future plans. Our personal comments would be a surprise over the "low" powers registered for the famous 1525-Urumqi, as well as some of the other Foreign Service's "power-houses" like 1040 and 1190. (Ryden, SW) A frequency schedule from the ZRGD (CPBS) shows the following frequency used for the Third Program, 1330, 1310, 1300, 1160, 1040, 1020, 980, 870, 760, 660, 630, 570, 550, and 540. (Hauser, IL)

FIJI, the Fiji Broadcasting Corp. has been noted in New Zealand on 730 (//710), 850 and 910, all of which are unlisted. FBC denies that they're using any of these frequencies. (NZDX)

INDONESIA, Japanese aid to Indonesia will include the establishment of MW transmitters at Jakarta (300 kw,) Medan (100 kw,) Surabaya (100 kw.) Also Radio Republik Indonesia will install 52 additional MW transmitters to supplement its network throughout Indonesia. (MWN, June 1975)

RRI Surabaya is or will be using 1206, 1385 khz at 1300-1600. A non-RRI station in Jakarta is planning to use 1565 khz. These items update the ARDXC Indonesia survey published recently in its second edition. (Hauser, IL)

"Cleveland, Ohio-UPI-Harris Corp. announced Monday (August 4) a \$20 million agreement with Indonesia for a nationwide radio broadcasting system." A phone call to Harris, owner of longtime transmitter manufacturer, Gates, IL, confirms this as the first step in the 5-year plan to shift much of Radio Republik Indonesia to MW. Spokesman termed the contract the largest single purchase of radio equipment ever, indicated 10 and 50 kw transmitters will be installed in 36 sites in Indonesia, MW, FM and SW, with towers, accessory gear. Details not worked out, but mostly MW. Are standard units, not custom designed, so installation will be rapid. The first to be shipped within 2 months, air target for all is end of 1976. (Jensen, WI)

JAPAN, a closed-circuit, all-English radio program is now available at major hotels in Tokyo. It is identified as "K-O-X Cable Radio, Tokyo," or simply "KOX Radio." Program is DJ music shows, sports 24 hours, plus news every hour at :55. The format sounds like FEN. (Taylor, IN)

PHILIPPINES, monumental changes continue to occur under Martial Law. The number of MW broadcast stations in the Greater Manila area has been reduced to 25, to foster more realistic competition and to reduce interference. PBS's Luis B. Quintos is off to Geneva for the I.T.U. International Regional Frequency Conference there. Philippines is fence-sitting in the controversy over the 8 khz versus the 9 khz waveplans. Either way, considerable rechannelization and reassignment will take place there. An interim rechannelization is possible for the Greater Manila area. The government's PBS has closed down DWOK-830 and DWIM-1500, and FEBC has closed down DZFE-1030 in the abovementioned reduction. All three will probably be moved elsewhere. In the meantime, DZRV-860 is DWRV and is operating on a temporary license. The Far East Broadcast Company's all-classical music station, DZFE-1030, was closed down October 1, 1975, along with several other Greater Manila stations. DZFE is replaced by DWFE-FM on 98.7 Mhz. The non-political closings include DWIM-1500 and DWOK-830, both of the Philippine Broadcasting Service Network, Bureau of Broadcasts, Department of Public Information. DWIM is to be moved to Mindanao. In the meantime, the longmoribund DZCA (closed down in 1957) of the Office of Civil Defense, reopened on 830 khz. This is actually a power increase, call sign change, and format change for DWOK, now 10 kw. (Taylor, IN)

TIMOR, according to Far East newspapers, a "Radio Lorosai" is operated by the anti-Fretelin Timorese Revolutionary Front. Location somewhere on Timor. (Ryden, SW)

FOCUS ON THE PEOPLE'S REPUBLIC OF CHINA / ZHONGHUA REN MIN GUO  
(A sequel)

In view of current assignments notified by PRC to ITU, the following lists the location and power of some widely-heard PRC broadcast stations. Note especially the location and power of the 1040 khz Foreign Program outlet, previously rumored to be at Shang Hai. Some geographical coordinates are also included, for calculation of distances.

khz	Pr	kw	Location	GC
590	TW	150	Wencheng, Zhejiang	120E06 27N47
645	CS	150	Beijing	116E27 39N57
670	FF	200	Dehua, Fujian	118E15 25N30
675	PS	100	Huhhot, Nei Menggu	111E30 41N12
690	PS	100	Xian, Shanxi	108E54 34N12
700	PS	50	Nanjing, Jiangsu	118E54 32N06
720	CS	150	Beijing	116E27 39N57
770	PS	100	Wuhan, Hubei	114E20 30N36
795	MS	20	Shang Hai shi	121E24 31N15
880	PS	100	Fuzhou, Fujian	119E24 26N06
910	TW	100	Wencheng, Zhejiang	120E06 27N47
980	PS	50	Fuzhou, Fujian	119E24 26N06
990	MS	20	Shanh Hai shi	121E24 31N15
1040	FS	300	Changzhou, Jiangsu	119E57 31N47
1060	PS	100	Guangzhou, Guangdong	113E14 23N11
1110	MS	10	Xiamen shi, Fujian	118E18 24N24
1210	FS	100	Yanji shi, Jilin	129E30 42N54
1230	PS	100	Changsha shi, Hunan	112E45 28N09
1300	FS	300	Kunming, Yunnan	102E50 25N10
1320	PS	100	Nanning, Guangxi	108E18 22N48
1340	PS/FS	100	Guangzhou, Guangdong	113E14 23N11
1380	FF	200	Dehua, Fujian	118E15 25N30
1480	TW	200	Wencheng, Zhejiang	120E06 27N47
1525	FS	500	Urumqi, Xinjiang	087E30 43N35
1540	FF	200	Dehua, Fujian	118E36 25N30
1575	PS	10	Wenzhou, Zhejiang	120E36 28N06

Abbreviations: FF-Fujian Front Broadcast Station / Fujian jian xian guangbo dia tai  
FS-Foreign Service; MS-Municipal Service; PS-Provincial Service; TW-Taiwan Program  
Zhongyang renmin guangbo dia tai Taiwan guangbo; CS-Capital Service.

Notes: Many high-powered stations are missing from the PRC ITU notifications, at least on their current frequencies. It appears that the notifications are based on assignments extant several years ago. Perhaps a situation exists that is similar to that in the USSR, in which the central broadcasting administration appears to be relatively uninformed as to what the regional transmitter sites are doing! A parallel situation might be one in which VOA-Washington works from an outdated list of transmitting facilities.

The Fujian Front Broadcast Station is not listed as "People's Liberation Army," as some publications have it. A broadcast station is known by its name or call sign, not by the name of the operating organization (unless the two are synonymous.) Since this is a military broadcasting organization, examples are available from our own experience: AFPN-1510 Clark U.S. AFB Philippines calls itself American Forces Philippines Network, not U.S. Air Force. (Taylor, IN)

(Focus on the People's Republic of China, a longer and more detailed article by Charles Taylor was printed in Foreign Log 4, and is also available from IRCA HQ as a reprint-ed)



EAGLE STREET, LONGREACH, QUEENSLAND

P.O. BOX 20

TRANS WORLD RADIO GUAM

Dr. Paul E. Freed, president and founder of Trans World Radio, announced on May 12 that final clearance had been received for establishing two Gospel radio stations on Guam.

Half the World's Population

Groundbreaking for the two new Guam stations KTWG and KTWR was held June 1st. There will be one medium wave transmitter and two short wave transmitters. The MW transmitter will reach the nearly 100,000 on Guam and a similar number on surrounding islands. The short wave coverage will be directed to nearly half of the earth's population in China, Southeast Asia, Indonesia, Eastern Russia, and Australia.

This breakthrough comes at a most opportune time in view of the major changes in Viet Nam, Cambodia, and Laos. Since May 19th, Gospel programs are being broadcast to tens of thousands of Vietnamese in Guam's Tent City from existing local stations until Trans World Radio's own MW station is operational in August.

According to Dr. Freed, one of the basic purposes of this international station will be to beam the Gospel to Southeast Asia and to provide a continuing Christian message to those whose church life has been destroyed.

Equipment Enroute

The MW transmitter will be located on a four-acre plot 600 feet high in the Linitz Hill overlooking the harbor of the capital city of Agana. The Gates AM transmitter and the 328 foot tower are on their way to Guam. Studio equipment has already been procured. The frequency is 770 khz.

First on American Soil

The two Guam stations will be the first Trans World Radio installations on American soil. As early as 1963 Trans World Radio attempted to secure a site in Puerto Rico, but the FCC had a freeze on new stations. A local pastor on Guam in 1970 helped TWR secure property in Merizo in the southern part of the island near the foot of Mount Schroeder for the short wave site. The FCC freeze was lifted in August, 1973. The TWR application for a short wave station on Guam was then updated and in January, 1974, a construction permit was granted subject to the clearance of the military authorities on Guam.

Staff

Construction has begun. An access road has been bulldozed to the AM site and the foundations have been laid for the tower and the transmitter building. Already on Guam in charge of Trans World Radio local arrangements is David Arthurs, an engineer transferred from Bonaire. The project manager for the Guam station is Rodger Groff from the International Headquarters in Chatham, NJ. David Newell, a veteran missionary from Bonaire, will be a member of the technical staff. Cliff Floyd, a new TWR missionary and a rigger, will assist in tower construction. Dan Carvey, who has been with TWR since the days of the Voice of Tangier, will be an "on-the-air" personality on Guam. Bill Davis, another new Missionary, will assist in the engineering department.

The Guam station will be another link in Trans World Radio's world-wide Christian radio network for transmitting the Gospel. The network will be capable of broadcasting Gospel programs around the world. (Ryden, SW)

Dear Sir,

Your report on receipt of 23.3.76. has been examined.

This confirms that you were listening to 5CK on 23.2.76.

at 1850 Hrs.

A.E.S.T. 0850 G.M.T.

This transmitter is located at Crystal Brook, Sth Aust and

operates on 640 kc/s, metres. Power 10,000 (watts).

Thank you for your interest in reporting on our transmission.

Yours faithfully,

The AUSTRALIAN BROADCASTING COMMISSION

A339-AMENDED 9/64



Mr. Philip Bytheway,  
6635 57th North East,  
SEATTLE,  
WASHINGTON. 98115.

## DOMESTIC INTERNATIONAL LOGGINGS

- 545 <sup>2a</sup> UNID, here 0705-40 11/15 relaying Radio Canada International. Good signal looping between N-S and NE-SW w/good undistorted audio except for a noticeable hum on the carrier. Brief deep fade (30 seconds or so) ever 3 minutes, but don't know if that's characteristic of this station's carrier or of the SW signal apparently being relayed. Not noted the following night. I suspect a bootlegger rather than someone in the South Pacific as KORL wasn't even in at the time. (Portzer, WA)
- 570 CA, Los Angeles, KLAC, 1/5 w/Jewish program and mx in Yiddish. Female ancr spoke in EE w/Israeli accent 0642. At 0746 more mx in Yiddish. (Note: Yiddish is very similar to GG and is the second of Israel's two major languages, Hebrew is the first language of Israel.) (Lobel, CA)
- 620 CA, Hanford, KNKS, 10/17 0430 hrd w/strange sounding language and mx. S/off right after program at 0503. Anyone hrd this before and know what the language is? (Lobel, CA)
- 655 MA, Boston, domestic spurs from WRKO-680 on 655, 662, 698 and 702 - carriers sounding like RTTY (FSK) when spotted w/BFO. (Connelly, MA)
- 730 OH, Bowling Green, WMGS, w/program of SS songs and female anmts 1830 12/20 EE anmt said it was for information and cultural benefit of 30,000 Latin Americans in their listening area. (Keleher, IN)
- 860 CA, Modesto, KTRB, w/PP talk 1249 MM 10/13, in EE at 1318 recheck. (Pejza, CA)
- 870 MI, East Lansing, WKAR, w/program of Mexican mx and SS anmts 1645 12/20. (Keleher, IN)
- 960 AZ, Phoenix, KOOL, 0230-0300 10/6 w/American Jewish Hour. Many songs in Yiddish and Hebrew including "If I Were a Rich Man." Spot for Sanai Mortuary. Ancr must have been from Israel as he has a slight Israeli accent. (Lobel, CA)
- 1010 CA, Delano, KCHJ, w/ranchero mx and SS anmts and spots MM 11/17 1313. (Pejza, CA)
- 1100 CO, Grand Junction, KREX, 11/3 0628 w/SS talk and mx and mention of "Mexicana de..." u/KING slop. 0628 gave KREX ID in SS and mention of "Programa de Cultural." (Orren, WA)
- 1140 FL, Maimi, WQBA, logged atop channel 2222-2230 11/3 w/SS nx and Bank ads. First time hrd since call change a few years ago. (Stanbury, ON)
- 1146 NY, New York, WNEW-1130, occasionally has a spur  $\pm$  16 khz, hitting 1114 and 1146 w/1146 louder. Usually seems like an OC, weak smudgy audio on it. (Foxworth, NY)
- 1204 WA, Seattle, KLK, pirate noted here 0825 12/29. Played "Basketball Jones" cut audio in middle of song, then had ID a minute or so later saying they were on for ET. Strong signal here. (Portzer, WA)
- 1270 AZ, Holbrook, KDJI, 10/27 0130 w/some Indian language. Occasionally accented EE hrd. Almost thought I had a new TP but language sounded too strange to be an oriental. (Lobel, CA)
- 1330 CA, Los Banos, KLBS, w/SS 1332 10/7. (Pejza, CA)
- 1350 NM, Albuquerque, KABQ, 11/24 0330 in SS w/male and female ancrs. Hrd ID in SS as K-A-B-Q. (Lobel, CA)
- 1380 NY, New York, WBNX, likely the one w/AA chanting o/u Sox game on WSYB 0051 5/19. (Connelly, MA)

- 390 CA, Turlock, KCEY, in PP 1302 10/13. Turlock is 20 miles South of Modest  
As you might guess, there are a lot of Portuguese in this area. (Pejza, CA)
- 390 NM, Farmington, KENN, 4/19 1200, some American Indian language which was  
probably Navajo. Believe this is KENN as I hrd them s/on a moment before  
and also hrd later mention of Farmington. (Lobel, CA)
- 410 CA, Redlands, KCAL, 11/21 1105 hrd ID in SS. (Lobel, CA)
- 440 KS, Topeka, KEWI, seemed to go into SS pgm w/ranchera mx 1000 10/19 after  
usual rr fare. (Portzer, WA)
- 520 NY, Mineola, WTHE, in addition to using SS, Greek and other languages, has  
a pgm in FF "Voie de la France" just before their s/off 2220 2/7. Makes  
life interesting for sunset DXers, especially since 1520 is a TA frequency  
(Foxworth, NY)
- 570 CA, Lodi, KCVR, 0045 in SS w/Mexican pops. (Szot, CA)

## **VERIFICATIONS**

- 530 AUSTRALIA, Dalwallinu, 6DL sent usual ABC card in about 12 to 14 days.  
Report sent to ABC address in WRTH. (Williams, OR)
- 610 TRINIDAD, Port-of-Spain sent prompt letter signed by Frank Thompson,  
GM/CE. Interesting to note that a perusal of back issues of DX News  
following this stations 12/21/60 DX Test shows that Mr. Thompson was the  
verie signer at that time, too. I thought about arranging a DX from them  
but with both WIP and WIOD blasting away all the time, I feel that auro-  
ral conditions in mid-evening still offers the best hope of hearing them.  
Perhaps, though, someone may still wish to contact them. Richard Wood  
tells me that he had traces of them at times in England in past years but  
feels they get out poorly. I have to consider this my best DX catch of  
the season. Incidentally, return postage is 30 cents in their local  
currency, stamps of Trinidad and Tobago. (Foxworth, NY)
- 625 COSTA RICA, San José, Radio Millón, verie certificate with (translated)  
statement: "This certifies and commemorates that Charles A. Taylor of  
Indianapolis, Ind. did indeed receive the initial test transmissions of  
Radio Millón on a frequency of 625 kHz on this the 8th day of March 1976  
at 0115 hours, time at the ninetieth longitude west, and is entitled to  
all the rights and privileges merited by this great act. Witnessed (by  
the verie signer), Ronald F. Schatz, consultant." Certificate also in-  
cludes a space for the signature of the "listener." What else could I  
do? --- I signed it! (Taylor, IN)  
Verie certificate like that described above. (Bytheway, WA)  
Same here. (Portzer, WA)
- 640 AUSTRALIA, Crystal Brook, 5CK sent standard ABC card w/full details on  
the back for written report and three IRC's sent directly to the station.  
Card gives the location as Crystal Brook, contrary to info in the WRTH.  
(Bytheway, WA)
- 647 GREAT BRITAIN, Daventry, BBC World Service QSL card w/verie data typed  
in, 16 days, 1 IRC sent. (Colyard, NJ)
- 647 USSR, Vladivostok, Radio Moscow, both card and letter from Korean Service  
For taped report w/IRCs; both unsigned. (Ford, BC)
- 650 ALASKA, Anchorage, KYAK, nonspecific form letter signed by the Technical  
Director for written report. (Ford, BC)
- 660 AUSTRALIA, Byrock, 2BY. Typical ABC card in 6 weeks for written report  
to the station. (Ford, BC)  
\*Same as 6DL-530. (Williams, OR)
- 660 NEW ZEALAND, Radio New Zealand card for 1/19/76 reception of 2YC Wellin-  
ton. Signed by the Manager, but signature unreadable. (Hall-Patch, BC)

- 675 COSTA RICA, San José, TIJC, Sonora sent a letter in Spanish for a report on the IRCA SS report form. Invites me to listen for and report to other 2 stations, 575 and 925. Verie signer was Hernan Alvarado R.; 14 days airmail for 2 IRCs. Envelope says 15 kw. (Colyard, NJ)
- 690 HAWAII, Honolulu, KKUA sent a specific letter from the Program Director in 2 months. WRTH address is right. (Ford, BC)
- 690 MEXICO, Tijuana, B.C., XETRA sent a QSL card, verie signer Edie McCotur, and a letter signed by Lufs Carrillo, Pres., in 2 weeks. (Lazar, WI)
- 700 AUSTRALIA, Grafton, 2NR. Same as 6DL-530. (Williams, OR)
- 700 JAMAICA, Montego Bay, JBC sent a letter in 2 weeks for report sent to the WRTH address w/2 IRCs. Verie signer was Mrs. Jean Woodstock, Head of Pgm Admin. Letterhead also gave their address as 5 South Odeon Avenue, Kingston. (Portzer, WA)
- 710 RHODESIA, RBC African Service, Guelo, sent a card showing Salisbury street scene and buck grazing, w/details for report sent through SADXC QSL Bureau, received in 3 weeks. Verie signer was E. McKenzie. (Baker, SA)
- 720 HAWAII, Elele, KUI, specific card in 4 weeks from the station manager. Says sign-off music is Hawaii State anthem "Hawaii Pono'i." WRTH address is OK. (Ford, BC)
- 750 COLOMBIA, Medellin, HJDK, La Voz de Antioquia sent card for report dated 10/2/75. Took about 3 weeks. Letter via SS report form sent. (Wood, NY)
- 760 HAWAII, Honolulu, KGU, specific card from the CE in 7 days. WRTH address OK, although card has Box 3110 (might be out of date). (Ford, BC)  
 \*card for SASE w/date and time, verie signer is Takumi Shigetani. (Young, CA)
- 790 MEXICO, Mexicali, B.C., XESU, registered letter of 11/22/75 returned with notation "Non Reclame" (not claimed). Has anyone else had that problem w/XESU? I have mailed the letter out again in another cover; this time not registered! (Lobel, CA)
- 800 NETHERLANDS ANTILLES, Bonaire, PJB, Trans World Radio sent card in 5 weeks for 3 IRCs, signed by both CE and head of English Mail Dept. New card complete w/specificals (compared to old one which usually had little written on it). (Ford, BC)
- 810 COLOMBIA, Bogotá, HJCY sent folder type QSL w/one \$3.00 stamp on it in 4 months for report of 2/10/75. Had sent a follow-up in July 76. Address is Soñora Georgina Zauindio, Gerencia General, Accion Cultural Popular, Aereo 7170, Nal 3262, Bogotá. (Mount, NJ)
- 820 COLOMBIA, Cali, HJED sent picture post card on which verie message was written in SS. Signer was Eduardo Rueda Santos, Gerente. This is for a taped report of 12/1/75. Stamps on the card totalled \$4.00 Colombian. Sent 2 IRCs with the tape. (Lobel, CA)
- 830 AUSTRALIA, Sale, 3GI, specific letter verie from Regional Manager in 12 days for tentative report and IRCs. Addresses are: ABC, 23 Raymond St., Sale, Victoria, and also Regional Station 3GI, P.O. Box 330, Sale, NSW 3850. Choose the places you want. (Ford, BC)
- 830 HAWAII, Honolulu, KIKI, specific Roycroft card in 2 weeks w/letter on the back. (Ford, BC)
- 830 MEXICO, Culiacan, Sin., XEVQ sent letter written in SS. Verie signer was Fernando Cortes. For report of 12/3/75, veried received 1/7. (Lobel, CA)
- 834 BELIZE, Radio Belize sent a large QSL for 1 IRC in 12 days. (Colyard, NJ)
- 840 AUSTRALIA, Rockhampton, 4RK, unsigned specific ABC card in 6 weeks for a report directly to the station. Card has a Queensland regional address in WRTH. (Ford, BC)

- 840 HAITI, Cap Haitien, 4VEF, Radio 4VEH, specific card, typed signature of QSL Secretary, and comment of certain reception in 9 weeks in response to tape of two receptions, IRCs and report in EE to the address in WRTH. So the sign-on on 840 (at least back in April) just prior to 1000 GMT with anthem after choir and repeated 5-note chimes is Radio 4VEH. (Ford, BC)
- 840/890 PANAMA, HOL80/HOL81, letter in SS received for 2 separate reports to these stations. Letter mentions both of my reports but not HOL81. I assume this is a verie for both. Signer is Yolanda E. Avila. (Lobel, CA)
- 845 ITALY, Rome sent attractive QSL w/painting of rural scene, all details, in 14 weeks, 3 IRCs sent. Italian mail is rather slow; I would suggest that DXers send RAI reports to their P.O. Box address given on the card: Casella Postale 320, Roma. Mine was sent to Viale Mazzini 14, per WRTH. (Keleher, IN)  
 \*RAI, Rome 2 sent QSL in 10 weeks for 1 IRC. (Colyard, NJ)
- 850 PUERTO RICO, Aguadilla, WABA "QSL" for 10/27/75 reception back in 11 days from CE José Hernández Soto, who states "Transmitter - Gates BC 1F; Power - 500 watts; location - north western part of the island," and adds "...we never expected our signal could reach California." The "QSL" is actually a picture post card of San Francisco which I sent w/my report expecting the station to keep it as a souvenir. Unfortunately, the station misinterpreted my intentions and used it as a prepared post card. DXers might be wise to keep this in mind when considering sending postcards to stations. (Korn, CA) (I ran into the same problem w/XEDM 1580 khz. My verie from them is a post card of Seattle w/"muchas gracias por su reporte" written on the back. One way to avoid this is to write a brief message such as "Saludos Amigos" on the back and sign your name. ed)
- 870 HAWAII, Honolulu, KAIM sent Roycroft card in 2 weeks. (Ford, BC)
- 880 CUBA, Pinar del Río, CMAF, Radio Enciclopedia. Specific card w/unreadable signature in 4 months for taped report plus written SS report. (Ford, BC)
- 890 COLOMBIA, Bogotá, HJCE, La Voz de Bogotá sent a letter and pennant in 1 week for SS report and mint stamps. Signed by German Tobon Martinez, Gerente. (Lazar, WI)
- 890 PANAMA, see 840 khz.
- 920 ALASKA, Kenai-Soldotna, KSRM, specific letter signed by News Director for written report. (Ford, BC)
- 1016 TURKEY, Istanbul, TRT verified my reception on this frequency w/specific QSL card. Contains all pertinent data except location. (Stanbury, ON)
- 1020 TONGA, Nuku'alofa, A3Z card for 1/13/76 reception. This one is very welcome as my report was tentative due to lack of readable IDs. Postage stamps on card are shaped like bananas - a collectors nightmare! (Hall-Patch, BC)
- 1035 HAITI, Cap Haitien, 4VEC, Radio 4VEH QSL w/religious material received 10/7/75 for 2/3/75 report. Envelope reads Oriental Missionary Society, P.O. Box 90-B, Port-au-Prince, Haiti. Signer was a secretary. Was mailed from Haiti 8/24, sat on a shelf at Grand Turk, Turks Is., (wherever that is), then took 4 days from San Francisco (a 30 minute drive). Looks like it was opened in transit. (Heald, CA)
- 1075 COSTA RICA, San José, TIFC verified in 5 weeks w/QSL and letter for 2 IRCs. Verie sent air mail w/5 beautiful C.R. stamps. Address is Apt. 2710, San José. (Colyard, NJ)
- 1088 GREAT BRITAIN, Crowborough, BBC verified my reception of this site w/a card and even more specific memo. The latter also notes "1088 kHz is radiated from the test site between 0745-1745 GMT, the power is 50 kw." (Stanbury, ON)
- 1090 MEXICO, Rosarito, B.C., XEPRS sent QSL card in 17 days. Mailed from San Diego even though I sent Mexican mint stamps. (Lazar, WI)

- 1100 ANTIGUA, St. John's, ZDK verified w/a card in 9 weeks. Address: Grenville Radio Ltd., Box 1100, St. John's. (Nittler, NE)
- 1150 DOMINICA, Roseau, Radio Jumbo sent a letter in FF and sticker for an EE letter and taped report w/mint stamps. Signed by Patrick Meyer, Directeur General. Took about 3 weeks. Address is P.O. Box 00, Roseau, Dominica, West Indies. Also has a Paris address. (Lazar, WI)
- 1165 ANTIGUA, Caribbean Radio Lighthouse sent detailed verie formletter in 2 weeks, airmail for 3 IRCs. Address is P.O. Box 1057, St. Johns. Signed by Curtis L. Waite, CE. (Keleher, IN)
- 1178 RYUKYU ISLANDS, Okinawa, VOA, regular VOA card w/all data for SASE, which was returned. Signed by Monica Vall. (Young, CA)
- 1190 COLOMBIA, Bogotá, HJCV, Radio Cordillera sent a letter in 6 weeks from Station Director for tape, SS letter, EE report and IRCs. Address on the letter same as in WRTH. (Ford, BC)
- 1196 GERMANY-WEST, Munich, VOA sent QSL in six days. (Colyard, NJ)
- 1265 ST. KITTS, Basseterre, Radio Paradise QSL in 18 days for letter and 1 IRC. QSL for report dated 11/10/75 w/R. L. Edmead, CE, but no signature. Another DXer told me it took him nearly 1 year and 3 reports! (Curtis, VT)  
 +sent QSL for 1 IRC in 1 month. (Colyard, NJ)
- 1270 HAWAII, Honolulu, KNDI, usual card received from Alan Roycroft w/message on back saying that KNDI will be moving their tower prior to 7/1/76 due to land redevelopment. In answer to my question as to when or if KPWA 970 khz will move to 670 (per WRTH etc.) Alan said, "KPWA changed hands recently and as their tower is short for 970 and 1500 feet (450 meters) above Hilo, they would be silly to move to 670." (Portzer, WA)
- 1466 MONACO, Monte Carlo, TWR sent transmitting tower card in black and white in 2 weeks for 1 IRC. (Abraham, MI)  
 +TWR sent a QSL for 1 IRC in 8 days. (Colyard, NJ)
- 1475 AUSTRIA, Vienna, Osterreichischer Rundfunk 3 months w/3 IRCs sent many goodies including complete series of coverage maps for AM/FM/TV of entire system and silver and black QSL filled in w/specifics but not signed. Card special for 1475. Address: Austrian Radio.- Technical Dept., P.O. Box 200, A-1043 Vienna. (Jensen, MD)
- 1500 HAWAII, Honolulu, KUMU, Roycroft QSL for tentative report and tape. Alan says mine was the farthest east he has ever received a verifiable report! Also he says for safety, send all Hawaiian reports to him at 2877 Kalakaua, Honolulu, HI 96815. (Keeney, KS)
- 1520 MEXICO, San Luis, Rio Colorado, Son., XEEH, nice 2 page letter received from this one for report of 12/3/75, dated 12/18/75 but not mailed until 3/1/76; received 3/4/76. Also enclosed was a coverage map and 3 certificates for something about a photo from the "Radio Club de Juan Gabriel." (Lobel, CA)
- 1529 VATICAN CITY, Radio Vaticana sent a QSL in 12 days for 1 IRC. Card was damaged in the mail. (Colyard, NJ)
- 1538 GERMANY-WEST, Deutschlandfunk sent a QSL for 2 IRCs, 10 days. (Colyard, NJ)
- 1540 BAHAMAS, Nassau, ZNS1, QSL received for 11/9/70 reception! Signed by Samuel Hepburn as usual. Must have been cleaning out their files. Already verified for a later date. (Peterson, CA)
- 1554 FRANCE, Nice, TDF sent a QSL in 4 months. (Ball, ON)
- 1580 MEXICO, Hermosillo, Son., XEDM. Card mailed in envelope for registered return receipt requested letter of 10/4/75 received in 2 weeks. Cannot make out signature. Address is Planta Carreterra Internacional Kilometro 268, Hermosillo, Sonora. They call themselves "La Voz del Pacifico." For you phone freaks, the phone number is 3-64-80 or 3-65-90. (Lobel, CA)

- 1586 GERMANY-WEST, Langenberg, WDR sent a QSL w/specific frequency, beautiful large card in 22 days. 2 IRCs sent. (Colyard, NJ)  
 †sent long QSL in 2 months for 2 IRCs. (Ball, ON)  
 †sent black and green card in 1 month for 1 IRC. (Abraham, MI)
- 1602 GERMANY-WEST, Munchen sent colorful QSL of sax player for 3 IRCs in one week. Bayerischer Rundfunk is the station. (Jensen, MD)
- Various CHINA, last September I sent 3 different taped reports to Peking. I got one lot of stuff back: a form letter saying glad to hear from listeners, an EE program schedule, no standard QSL card, and a note typed on the bottom of the form letter saying they don't verify home service programs and that they were returning my tape. (They did indeed send it back.) Then I got a second lot of stuff: same-collection - form letter, program schedule, and no card. But the note on the bottom of this form letter said they had listened to my tape, that it was the Central People's Broadcasting station w/Chinese opera and spoken program in Standard Chinese (Mandarin). The problem is that it could have been either of the 2 of the 3 tapes I sent out. But even those couple of sentences were a more personal response than has been the pattern for the last 27 years. (Ford, BC)

### PUBLICATIONS

World Radio-TV Handbook (WRTH). One book that every foreign DXer should definitely have. Published annually, it lists all LW, MW, SW and TV stations in the world, except certain low power stations. Check with Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656, for latest info.

North American Radio-TV Station Guide. Also known as the Jones Log, is published annually by Howard W. Sams and Co. Handiest quick reference to AM, FM and TV stations for the U.S. and Canada. Available in radio parts stores.

Broadcasting Yearbook. Published annually by Broadcasting Magazine, lists complete information on the AM, FM and TV stations of the U.S. \$30 the last time it appeared. Check with Broadcasting Publications, Inc., 1735 DeSales Street, N.W., Washington, DC 20036.

DU MW Guide. Due to the numerous changes in broadcasting in Australia, New Zealand and Papua New Guinea since the WRTH '75 compilation, ARDXC has published an updated listing of stations in these countries, available for 6 IRCs via air, or 4 via sea mail. Write to ARDXC, Box 227, Box Hill, Victoria 3128, Australia.

SWL Address Book by Gerry Dexter. This can be a valuable tool to the BCB QSL seeker as well. If you have the WRTH, you can usually figure out which foreign stations have MW parallels to their SW operations. It is quite likely that a station which is a good verifier on SW will have the "machinery" set up for verifying and is potentially a good verifier on MW. SWL Address Book has a wealth of information on verie policies of specific stations, and should be most valuable to anyone who doesn't like spending money on exorbitant postage rates and not getting answers. Check with Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656, for latest info.



## THE JAMAICA BROADCASTING CORPORATION

RADIO AND TELEVISION CENTRE

K. H. Ivan Levy Chairman

Actg. General Manager

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AURORAL/GEOMAGNETIC ACTIVITY  
AND  
ITS EFFECT ON MW DX RECEPTION

by Gordon P. Nelson

The close statistical relationship between geomagnetic disturbances and MW reception quality was apparently recognized quite early in the history of radio research. As early as 1927 Pickard<sup>1</sup> reported on extensive measurements of received field strengths of stations on frequencies ranging from long wave to SW and concluded, "It appears that reception in the frequency band of 500-1500 kilocycles shows higher correlation with solar activity and terrestrial magnetism than does any other investigated portion of the (radio) spectrum."

The attention of MW DX'ers was focussed on the close connection between geomagnetic activity and MW DX conditions by Gray Scringeur in 1968 who observed that the reception of TA's on the West Coast in 1965-1967 occurred primarily during extended periods of geomagnetic quiet<sup>2</sup>. The present author made similar observations relating East Coast receptions of high latitude Scandinavian and Far East stations with geomagnetically quiet periods. We also demonstrated that the long-observed geographical pattern of "auroral conditions" in which reception from the south is highly favored while skywave signals from the north, east, and west are greatly weakened can be explained in terms of the geographical pattern of ionospheric absorption associated with charged particle precipitation along the southern edge of the auroral oval<sup>3,4</sup>.

Since that time the publication of geomagnetic indices in DX bulletins has become routine and most active MW DX'ers monitor the WWV transmissions of geomagnetic data at 18 minutes after the hour to get an indication of the onset of auroral conditions.

The precise relationship between a particular geomagnetic index such as the Boulder A<sub>30</sub> value transmitted by WWV and MW reception quality on a particular path is very complex and it is only within the past few years with the advent of powerful new computer and satellite techniques that some of these details are becoming understood.

Several years ago we conducted an important experiment which greatly clarified certain aspects of the relationship between geomagnetic indices and high latitude reception quality. Reception quality on 32 different high latitude MW signal paths determined every 3 hours for a one month period was compared with both high latitude satellite photographs showing the precise location of the auroral oval relative to the signal paths at the times of reception and with geomagnetic indices simultaneously measured at a variety of different ground sites near the signal paths. The southern edge of the auroral oval which marks the equator-ward boundary of active charged particle precipitation into the E and D regions of the ionosphere was seen to exert a very strong influence on MW DX reception: during the entire month not a single reception occurred on any path which intersected or passed within 2° of the auroral oval boundary as seen from the satellite. Movement of the oval boundary was shown to be strongly but not perfectly correlated with a variety of geomagnetic indices. Generally speaking both reception quality and the degree of visible auroral oval expansion show the best correlation with the planetary 3 hour K indices which represent worldwide average measures of auroral/geomagnetic disturbance levels rather than with indices from individual stations such as Boulder or Fredericksburg.

As we have suggested previously, one limitation on the practical usefulness of readily available geomagnetic indices is the method used to calculate the daily A index from the eight daily values of the 3-hour K index<sup>5</sup>. A similar problem exists with regard to the choice of a single station index as an approximation to the more useful planetary indices such as A<sub>p</sub>, K<sub>p</sub>, AE, and Q, none of which unfortunately is available for some months after the fact. Based upon this and related work we here present some guidelines for those interested in relating geomagnetic indices with DX reception.

1. TA reception shows a definite statistical tendency to peak just prior to or during the initial phases of a geomagnetic disturbance. Look for particularly good reception about the time of onset of a major disturbance. This effect is believed to be due to a redistribution of electrons in the base of the E region.

2. Planetary indices are more closely related to MW absorption than are individual station indices.

3. Poor reception frequently continues for upwards of a week following a major disturbance even though the geomagnetic indices may have returned to normal. This is believed to be due to the phenomenon of parasitic cyclotron resonance between radiation belt electrons and naturally occurring ELF noise generated within the magnetosphere by the original disturbance which persists up to a week.

4. The tendency for solar disturbances to repeat every solar rotation period (27 days) frequently permits a good deal of predictive ability by means of simple graphical techniques. In particular the nights of outstanding reception which tend to occur about the time of onset of some disturbances will tend to repeat every 27 days.

5. The parameter most closely related to MW absorption is the number and energy of the charged particles which are precipitating at particular locations along the signal path. These quantities can be measured by satellite and recent observations suggest that major geomagnetic disturbances fall into several different categories depending upon the number and energy of precipitating electrons and protons. The majority of disturbances are of the hard variety in which precipitation effects penetrate the ionosphere deeply enough to effect the entire broadcast band. Some storms however, feature precipitating energy spectra which can increase some high band signal strengths at times by altering the vertical signal path trajectory. Both hard and soft auroral precipitation events usually produce the same or at least very similar geomagnetic effects and probably can only be differentiated by satellite observations.

6. Reception along some transpolar paths such as Sinkiang-1525 can be significantly enhanced by geomagnetic/auroral disturbances of both hard and soft varieties. This is apparently due to the trapping of the signal between the auroral sporadic E layer and the F layer.

7. The influence of the statistical behavior of MW DX signals must be taken into account when interpreting MW DX data. Generally speaking the median value of the received signal strength is depressed much more by a geomagnetic/auroral disturbance than are the lower decile values. This means that while the average or median value of the signal may be reduced by say 15 dB due to a particular disturbance, the peak level that the signal reaches during the course of the evening may be only a few dB below what it attains on a good undisturbed night. Thus, for short periods of time, near-normal signal strengths may be experienced during even severely disturbed conditions.

8. It is now believed that geomagnetic/auroral disturbances are triggered by a reversal in the polarity of the interplanetary magnetic field between the earth and sun. This parameter is currently monitored from satellites and holds considerable promise for the eventual prediction of geomagnetic/auroral disturbances.

REFERENCES

1. The Correlation of Radio Reception With Solar Activity and Terrestrial Magnetism, Part II. G. W. Pickard, Proc. IRE, 15, 1927, pp. 749-768.
2. Relation Between Geomagnetic Measurements and MW DX Conditions, K. G. Scrimgeour, DX Monitor, February 1968.
3. MW Signal Paths, Parts I-IV, G. P. Nelson, DX News, 3/08/69, 2/28/70, 3/21/70, and 4/25/70.
4. Geographical Patterns in ECB DX Reception During Periods of High Auroral Activity, G. P. Nelson, DX News, 6/13/71.
5. Limitations in the Use of the A Index for MW DX Purposes, G. P. Nelson, DX News, 10/30/72.

Copies of the articles from DXM and DXN are available from the respective reprint services.

The following are the A<sub>3000</sub> readings made since the appearance of Foreign Log Vol. 4.

13	13	10	7	4	7	4	June 4-10, 1975
21	26	19	10	12	17	11	June 11-17, 1975
13	11	6	8	6	3	2	June 18-24, 1975
6	6	4	5	20	19	15	June 25 - July 1, 1975
7	10	8	7	7	12	25	July 2-8, 1975
24	15	14	6	11	16	16	July 9-15, 1975
13	15	14	11	8	8	8	July 16-22, 1975
7	6	26	20	14	11	3	July 23-29, 1975
6	4	13	8	4	6	24	July 30 - August 5, 1975
7	4	15	16	17	6	3	August 6-12, 1975
5	19	14	4	12	5	3	August 13-19, 1975
10	14	14	9	6	12	4	August 20-26, 1975
5	3	26	32	9	6	6	August 27 - September 2, 1975
1	1	4	12	7	6	18	September 3-9, 1975
20	20	16	21	15	7	5	September 10-16, 1975
10	10	7	5	6	3	2	September 17-23, 1975
2	3	10	15	6	5	2	September 24-30, 1975

6	3	7	8	6	20	23	October 1-7, 1975
33	35	21	6	11	7	8	October 8-14, 1975
4	9	6	3	2	3	5	October 15-21, 1975
5	6	3	2	4	4	6	October 22-28, 1975
11	9	10	5	22	40	28	October 29 - November 4, 1975
14	11	9	6	20	15	11	November 5-11, 1975
9	2	2	2	6	10	6	November 12-18, 1975
9	5	17	34	5	10	6	November 19-25, 1975
9	5	11	24	28	30	24	November 26 - December 2, 1975
10	11	7	6	2	17	12	December 3-9, 1975
4	3	2	3	5	9	12	December 10-16, 1975
9	5	4	2	8	8	6	December 17-23, 1975
2	18	27	25	12	13	10	December 24-30, 1975
7	4	3	12	9	8	11	December 31, 1975 - January 6, 1976
8	3	3	44	30	11	9	January 7-13, 1976
8	4	6	10	9	6	10	January 14-20, 1976
16	18	15	15	10	3	5	January 21-27, 1976
4	5	7	25	20	16	11	January 28 - February 3, 1976
10	7	7	17	25	21	18	February 4-10, 1976
11	15	21	15	6	4	9	February 11-17, 1976
15	18	17	12	10	3	2	February 18-24, 1976
3	9	28	17	27	16	21	February 25 - March 2, 1976
27	10	14	22	22	32	29	March 3-9, 1976
26	19	20	12	16	14	16	March 10-16, 1976
15	14	11	8	4	2	3	March 17-23, 1976
3	5	11	27	13	19	9	March 24-30, 1976
6	7	15	27	25	20	24	March 31 - April 6, 1976
22	15	10	12	10	10	12	April 7-13, 1976
13	4	4	6	2	4	1	April 14-20, 1976
4	18	8	13	8	6	13	April 21-27, 1976
12	13	10	11	37	56	20	April 28 - May 4, 1976
14	10	7	12	3	5	11	May 5-11, 1976
7	6	3	5	5	3	3	May 12-18, 1976
8	15	10	11	14	8	9	May 19-25, 1976
6	6	14	16	16	10	7	May 26 - June 1, 1976
9	9	21	19	10	15	12	June 2-8, 1976
4	5	21	8	5	3	4	June 9-15, 1976
5	14	19	5	7	4	3	June 16-22, 1976
4	14	14	7	8	6	5	June 23-29, 1976
24	20	10	12	11	7	6	June 30 - July 6, 1976
8	13	11	7	5	5	6	July 7-13, 1976
7	16	13	5	6	7	5	July 14-20, 1976
2	6	4	5	8	5	9	July 21-27, 1976
21	16	21	9	9	9	9	July 28 - August 3, 1976
5	8	5	5	5	14	7	August 4-10, 1976
8	3	3	6	2	8	5	August 11-17, 1976
5	9	5	9	5	24	17	August 18-24, 1976
19	17	12	9	7	8	7	August 25-31, 1976
10	20	12	14	8	7	11	September 1-7, 1976
5	5	5	2	7	7	9	September 8-14, 1976
12	8	10	25	16	40	17	September 15-21, 1976
16	13	6	9	8	12	5	September 22-28, 1976

THE SPANISH VOICE OF THE GREAT SOUTHWEST



# XELO

150,000  
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## CONTRIBUTORS

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 6436A, SM-1.

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 Sanserino loop, 5300' Beverage antenna near CA City.  
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 preamp, and Wedge loop.

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 Beverages w/ phasing unit, Ford Pinto car receiver, 2'  
 whip, near Belmont Hill, MA, Halfwave 4 Mhz dipole w/MW  
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 SM-2A.

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 SM-1.

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 3' Wedge.

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 (Keeney, KS) Rob Keeney, Lawrence, Kansas - HQ-180, SM-2.  
 (Keleher, IN) Charlie Keleher, Fort Wayne, Indiana - XCR-30, loopstick, amp.  
 (Kemper, CO) Ralph Kemper, Grand Junction, Colorado - Norelco portable.  
 (Korn, CA) Jim Korn, San Francisco, California - Fisher 90-T AM-FM tuner,  
 4' spiral loop.

(Lazar, WI) Bob Lazar, Madison, Wisconsin - Realistic TRF.  
 (Lazar a, WI) Bob Lazar, Port Washington, Wisconsin - Heathkit GR-78, 45'  
 longwire.

(Lester, WI) Dan Lester, Black Creek, Wisconsin - Heath GR-78.  
 (Lobel, CA) Albert Lobel, San Diego, California - DX-150A, Sanserino loop,  
 IRCA Spiral loop.

(Magne, PA) Larry Magne, Philadelphia, Pennsylvania.  
 (Martin, CO) Gene Martin, Denver, Colorado - HQ-180, box loop.

- (MWN) Medium Wave News, the newsletter of Medium Wave Circle of Great Britain.
- (Moraes, BZ) Claudio R. Moraes, Florianopolis, BRAZIL.
- (Moss, TX) Steve Moss, Austin, Texas - DX-150A, SM-1.
- (Mount, NJ) Paul Mount, Teaneck, New Jersey - Ameco R-5, SM-2, Panasonic R-1551, Rambler Car radio.
- (Nall, KY) Jim Nall, Louisville, Kentucky - HQ-180, 4' box loop.
- (Nelson, MA) Gordon Nelson, Watertown, Massachusetts - R-390/URR, R-392/URR, Ferrite loop, HQ-180A, FET Altaz loop, Travelling Wave Electronically Steerable Phased Array (TWESPA), with 3100 elements.
- (Newell, BC) R. Colin Newell, Victoria, British Columbia - DX-150B, MTA-7, 125' longwire.
- (Nittler, NE) Bill Nittler, McCook, Nebraska - HQ-180, loop.
- (NZDX) New Zealand DX Times, the magazine of the New Zealand Radio DX League, Wellington, NEW ZEALAND.
- (O'Hare, WA) Tim O'Hare, Seattle, Washington - SP-600, HRO, Wedge, SM-2.
- (Oliphant, AB) David Oliphant, Edmonton, Alberta.
- (Orren, WA) Jon Orren, Seattle, Washington - S-120, DX-160, SM-1.
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- (Sherman, MN) George Sherman, St. Paul, Minnesota - HQ-150, 35" loop.
- (SWNS) Short Wave News Service, Crystal Beach, Ontario.
- (Stanbury, ON) C.M. Stanbury II, Crystal Beach, Ontario - HQ-200, longwire.
- (SCDX) Sweden Calling DXers, bulletins from the Swedish Broadcasting Corp., Stockholm, SWEDEN.
- (Szot, CA) Kevin Szot, Vacaville, California - Motorola R-390, antenna tuner, dipole.
- (Taylor, IN) Charles A. Taylor, Indianapolis, Indiana - HA-600A, SSB adaptor IB-1101 frequency counter, AR-88, LSCA-1.
- (Tomer, CA) Randy Tomer, Arcata, California - DX-160, Sanserino loop.
- (Trubee, HI) Bill Trubee, Kealahou, Hawaii.
- (Wooten, IT) Charles Wooten, Sardinia, ITALY - Galaxy R-530, Sanserino loop.
- (Williams, OR) Dave Williams, Astoria, Oregon - Collins 75S-3C w/converter and SM-1, SPR-4, 360' longwire.
- (Wilson, CA) Ted Wilson, Anaheim, California - MN-26, Sanserino loop, QF-1 filter.
- (Wood, NY) Leslie Wood, North Merrick, Long Island, New York.

These are the people that made this issue of the IRCA Foreign Log possible. Their DXing and reporting to DXWW and DXWW-2 provided the material that went into this log. A big thanks goes to all of them. Also, a big thanks to Bruce Portzer and Charles Taylor, the men that did all the hours of editing the columns that this edition is based on.

INDEX OF COUNTRIES AND FREQUENCIES

TP Alaska 650, 660, 700, 750, 850, 890, 920, 1170  
TA Albania 1088, 1214, 1394, 1457  
TA Algeria 251, 529, 548, 575, 890, 1304  
TP American Samoa 1120  
TA Andorra 701, 818  
PA Anguilla 1505  
PA Antigua 1100, 1165  
PA Argentina 870  
TP Australia 530, 560, 590, 630, 640, 700, 720, 740, 750, 770, 810, 820,  
830, 840, 880, 890, 1550, 1600  
TA Austria 1025, 1475  
PA Bahamas 1540  
PA Barbados 900  
TA Belgium 926  
PA Belize 834  
PA Brazil 860, 880, 1000, 1040, 1180  
PA British Virgin Islands 780  
TA Bulgaria 1223  
TA Canary Islands 836, 1097  
PA Chile 840, 1180  
TA China 1525  
TP China 615, 645, 700, 720, 760, 820, 835, 867, 870, 890, 920, 975v,  
1000, 1020, 1030, 1040, 1200, 1210  
PA Colombia 540, 575, 600, 610, 620, 650, 680, 700, 720, 730, 750, 760,  
770, 810, 820, 850, 890, 905-920, 940, 960, 980, 1000, 1005, 1020,  
1025, 1030, 1040, 1055, 1070, 1100, 1130, 1160, 1170, 1180, 1190,  
1200, 1210, 1220, 1250, 1270, 1370, 1505, 1520, 1580  
TP Cook Islands 600  
PA Costa Rica 526, 527, 575, 625, 650, 675, 700, 725, 755, 775, 825, 900,  
925, 975, 1025, 1075, 1125, 1175, 1176, 1224, 1525, 1594  
PA Cuba 570, 590, 600, 630, 640, 670, 690, 720, 730, 740, 760, 780, 820,  
851, 860, 870, 880, 900, 909, 1031, 1040, 1059, 1098, 1160, 1180,  
1208, 1210, 1260, 1270, 1409, 1419, 1560  
TA Czechoslovakia 953, 1097, 1232, 1286  
TA Dahomey 1475  
PA Dominica 545, 595, 1150  
PA Dominican Republic 540, 650, 690, 830, 860, 920, 1090, 1130, 1160,  
1180, 1240, 1570, 1580  
PA Ecuador 540, 640, 675, 735, 995  
TA Egypt 773, 817.4, 818  
PA El Salvador 655, 720, 765, 800, 890, 905, 1015, 1155  
TA France 164, 602, 674, 791, 836, 944, 1205, 1376, 1403, 1554  
TA Gabon 989, 1554  
TA Germany-East 185, 782, 1043, 1358  
TA Germany-West 180, 575, 665, 755, 872, 989, 1016, 1106, 1196, 1268,  
1421, 1538, 1586, 1602  
TP Gilbert Islands 844  
TA Great Britain 200, 647, 692, 809, 881, 908, 1052, 1088, 1214, 1295, 1546  
TA Greenland 1425  
PA Grenada 535  
PA Guyana 560, 760  
PA Guatemala 700, 850, 880, 890, 939, 1020, 1188, 1210  
PA Haiti 1035, 1385  
TP Hawaii 550, 620, 650, 760, 830, 870, 1040, 1080, 1130, 1270, 1310, 1380  
PA Honduras 680, 705, 830, 945, 1085, 1110, 1163, 1197  
TA India 1300  
TA International Waters 1187, 1540  
TA Iraq 1038  
TA Ireland 566  
TA Italy 845, 899, 1034, 1115, 1448, 1578  
PA Jamaica 550, 560, 700, 750  
TP Japan 530, 650, 660, 670, 700, 750, 770, 780, 820, 830, 840, 850,  
870, 890, 1010, 1130, 1140, 1210, 1240, 1290, 1440  
TP Korea-North 625, 635, 655, 685, 695, 725, 776, 785, 813, 816, 820,  
850, 875v  
TP Korea-South 710v, 740, 750, 840, 880, 890, 1350, 1570

TA Kuwait 1345  
 TA Lebanon 836  
 TA Lesotho 899  
 TA Liberia 710  
 TA Libya 827, 1124  
 TA Lithuania 1106  
 TA Luxembourg 1439  
 TA Malawi 755  
 TP Malaysia 1475  
 PA Mexico 540, 580, 650, 660, 670, 690, 710, 730, 760, 790, 800, 810, 820,  
     830, 840, 850, 860, 870, 880, 900, 910, 940, 950, 960, 970, 980, 990,  
     1000, 1010, 1030, 1034, 1042, 1050, 1090, 1140, 1150, 1190, 1220,  
     1270, 1290, 1300, 1310, 1340, 1350, 1370, 1375, 1380, 1420, 1430,  
     1440, 1470, 1480, 1490, 1500, 1520, 1530, 1550, 1560, 1570, 1580,  
     1590  
 TA Monaco 218, 1466  
 PA Montserrat 740, 885, 930  
 TA Morocco 209, 611, 701, 773, 818, 827, 863, 935, 1115, 1196, 1232, 1295  
 TA Mozambique 737, 836, 917, 1190  
 TA Netherlands 746, 1007  
 PA Netherlands Antilles 800, 1325, 1435  
 TP New Zealand 660, 760, 780, 860, 880, 1000, 1040, 1060, 1070, 1180, 1590  
 PA Nicaragua 540, 660, 750, 775, 965, 1295  
 TA Norway 1313  
 TA Oman 1410  
 PA Panamá 770, 825, 840, 860, 890, 1045, 1244  
 PA Paraguay 645  
 PA Perú 854, 880, 1010, 1040  
 TP Philippines 1140, 1326  
 TP Phoenix Islands 1385  
 TA Poland 227, 1367, 1502  
 TA Portugal 665, 719, 755, 782, 1034, 1367, 1578  
 PA Puerto Rico 580, 680, 810, 850, 870  
 TA Rhodesia 611  
 TA Romania 155  
 TP Ryukyu Islands 1178  
 PA St. Kitts 555, 1265  
 PA St. Lucia 660  
 TA St. Pierre-et-Miquelon 1375  
 TA Saudi Arabia 647  
 TA Senegal 764, 764.3, 1303.8  
 TA Sierra Leone 1205  
 TP Singapore 790  
 TA South Africa 782, 800  
 TA Spain 584, 638, 683, 737, 773, 809, 827, 836, 854, 872, 917, 989,  
     1025, 1133, 1223, 1313, 1385, 1502, 1520  
 TA Spanish Sahara 656  
 PA Surinam 640, 725  
 TA Swaziland 881  
 TA Switzerland 529, 764, 1562  
 TA Syria 746, 782  
 TP Tonga 1020  
 PA Trinidad 610, 730  
 TA Tunisia 629, 962  
 TA Turkey 1016  
 TA Upper Volta 737, 746  
 TA U.S.S.R. 236, 656, 971, 1525, 1546  
 TP U.S.S.R. 548, 575, 584, 629, 647, 665, 840, 973, 1010, 1376, 1525  
 TA Vatican 1529  
 PA Venezuela 550, 570, 580, 640, 650, 660, 670, 690, 700, 710, 740, 750,  
     760, 830, 890, 910, 940, 990, 1020, 1080, 1090, 1110, 1120, 1150,  
     1180, 1200, 1230  
 PA Virgin Islands 970  
 TP Western Samoa 1050  
 TA Yugoslavia 917, 1124, 1133  
 TA Zambia 818

PA - Pan American Loggings  
 TA - Atlantic Loggings  
 TP - Pacific Loggings

## ABBREVIATIONS

### GENERAL

Ancr Announcer  
AN All Night  
BCB Broadcast Band  
CE Chief Engineer  
cl classical music  
c&w country and western music  
CX conditions  
ER Election returns  
ET Equipment test  
f/c frequency check  
fax facilities  
freq frequency  
GM General Manager  
GY Graveyard frequencies  
hi Ham language for a laugh  
ID Identification  
inst instrumental music  
IS Interval Signal  
ment mention  
mor middle-of-the-road programming  
mx music  
NA National Anthem  
nx news  
o/ over  
o/u over - under  
CC Open carrier  
FD Program Director  
pgm program  
pop popular music  
Pres President  
QRM Interference from another station  
QRN Noise, static  
QSB Fading  
r&b rhythm and blues music  
rpt report  
rr rock and roll music  
s/on sign-on  
s/off sign-off  
sig signal  
SRS sunrise skip  
SSB "Star Spangled Banner"  
SSS sunset skip  
stn station  
TC Time check  
TT Test tone  
u/ under  
unid unidentified  
w/ with  
WRTH World Radio-TV Handbook  
wx weather  
xlnt excellent  
// parallel (same program)

### GEOGRAPHIC AREAS

CA Central America  
DSA Deep South America  
DU Down Under  
EC East Coast  
LA Latin America  
NA North America  
SA South America  
TA Trans-Atlantic  
TP Trans-Pacific  
WC West Coast

### LANGUAGES

AA Arabic JJ Japanese  
CC Chinese KK Korean  
DD Dutch PP Portuguese  
EE English RR Russian  
FF French SS Spanish  
GG German

### TECHNICAL

dcl direct coupled loop  
het heterodyne  
LSCA Loop Sense Cardioid Array  
PFM Precision frequency measurement  
Rx Receiver  
SAH Sub-audible heterodyne  
SM "Space Magnet" ferrite loop  
TVI Interference from a TV set  
tx transmitter  
W watts  
xmsn transmission  
xmtr transmitter  
xstr transistor  
xtal crystal  
Hz Hertz, cycles per second  
kHz KiloHertz, same as kc/s  
MHz MegaHertz, same as Mc/s

### TIME

DST Daylight Savings Time  
EDT Eastern Daylight Time  
ELT Eastern Local Time  
EST Eastern Standard Time  
GMT Greenwich Mean Time  
LSR Local sunrise  
LSS Local sunset  
MM Monday morning  
SM Sunday morning  
UTC Coordinated Universal Time  
(same as GMT)

### ABBREVIATIONS USED AFTER FREQUENCIES

a approximate frequency  
h harmonic reception  
t tentative  
v variable frequency  
? unidentified station

### VERIFICATION INFORMATION

IRC International Reply Coupon  
PC Post card  
pp card prepared by the DXer  
SASE Self addressed stamped envelope  
v/ verification

### NETWORKS AND ORGANIZATIONS

ABC Australian Broadcasting Commission  
BBC British Broadcasting Corporation  
EBU European Broadcasting Union  
NHK Nippon Hoso Kyokai (Japan  
Broadcasting Corporation)  
NZBC New Zealand Broadcasting Corporation  
RCN Radio Cadena Nacional  
VOA Voice of America

## NOTES

## NOTES

## ABOUT IRCA

The International Radio Club of America (IRCA) was founded in 1964 by a group of EXers interested in listening to distant radio stations on the standard AM broadcast band (540-1600 kHz). From a small group of founders, IRCA has grown until its present membership of 400 makes it one of the largest DX clubs in North America. IRCA's members come from all walks of life - TV repairmen, teachers, students, postmen, engineers, technicians, doctors, and range in age and experience from the novice teenager to the veteran senior citizen. Most of its members live in the United States and Canada, but a scattering live elsewhere in the world.

Members of IRCA receive the official bulletin, DX Monitor. Since radio listening is ordinarily a hobby that one does alone, DX Monitor is the way club members keep in contact. We are proud of the fact that IRCA is the only club in North America which publishes its bulletin as often as it does, 34 times per year, more than any other club. DX Monitor appears weekly from October to March (the DX season), and bi-monthly or monthly the rest of the year. DX Monitor is printed in an attractive loose-leaf format to allow for easy filing or binding.

A typical issue of DX Monitor contains many regular features. "DX Calendar" lists special programs and tests conducted by stations for IRCA or other clubs. "Broadcasting Information" gives changes in power, frequency, and antenna patterns for domestic stations. "DX Roundups" list reports of domestic stations currently being heard by members throughout North America. "DX Worldwide," from which this Foreign Log was derived, reports on broadcast band stations from outside the U.S. and Canada which have been heard by members, as well as information of foreign stations. "DX Forums" give members a chance to express their opinions on DX-related topics.

Special features published regularly include the "Frequency Check List" which tells when stations conduct regular equipment tests, which sometimes allow a DXer to hear a station otherwise inaudible in his area. "The Mexiglenn List" and the "Jamaatien List" include current information on stations in Mexico, Cuba, Jamaica, and Haiti, frequently heard foreign countries. Regular lists are published on stations carrying professional sports teams, as well as widely heard programs, such as the "CBS Mystery Theatre" and "Back to the Bible" programs.

Periodically a State or Province is spotlighted in a special review of the stations in that territory. Other special features include articles on the history of radio, reviews of equipment by members, and special tips on listening to foreign DX.

Membership in IRCA also entitles you to purchase club supplies, such as stationery, rubber stamps of the club emblem, and club publications. An extensive list of reprints of articles and lists allows a new member to learn about particular aspects of the DXing hobby from past issues of DX Monitor.

All of the work of running the club and of publishing DX Monitor is on a voluntary basis. None of the officers (elected every two years by all the members) or the publishing staff of DX Monitor receive any salaries. Your membership dues go entirely toward defraying club expenses and for printing and mailing costs.

As a bonus for joining IRCA, your first year's dues include a copy of "Principles of Broadcast Band DXing," a comprehensive guide to broadcast band DXing and to IRCA.

At the present time, membership dues in IRCA are \$12.00 first class to Canada and the U.S.A., airmail to Mexico. To the rest of the world it is \$13.50 airmail. For more information on IRCA, as well as a membership application form, write to IRCA, P.O. Box 21462, Seattle, WA 98111. A sample copy of DX Monitor will be sent for 50 cents or three International Reply Coupons.

