



October 6, 2007 - Volume 45, Number 4 - Edition 1416 - ISSN 899-9733

This issue, IRCA welcomes Terry Clayton. We're weekly now... let us know what you're hearing - pb
Very Sad News

"I just received the sad news from friend Ginny Boehnke, (wife of Chuck Boehnke, who passed 3 years ago), that **Richard Wood** of Hawaii died yesterday of a Heart Attack. He was 67. He apparently has had heart troubles the past couple of years. Ginny got this information from Richard Wood's tenant. The tenant said that Richard Wood had no relatives and had no will. So that is all I know. She wanted me to pass on the information." Patrick Martin, 9/28/07

Notes from IRCA's President - Doug Pifer

It's time to start thinking about next year's convention, and the deadline is **October 15** for bids. If there is anyone interested in hosting the 2008 IRCA convention, please contact our President now.

DX Monitor editorships of "Hearing It Through the Grapevine", "Website Wanderings" and "IRCA Sports Editor" are open, let our President know if you're interested.

Please contact IRCA's President, **Doug Pifer** at: 3410 Marion St SE, Albany OR 97322-3871, or e-mail to dxer@desert4wd.com.

!!!NEW IRCA Mexican Log, 12th Edition (Winter 2007)

The **IRCA MEXICAN LOG** lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".
 Prices: **IRCA members** - \$9.50 (US/Canada/Mexico/sea mail), \$12.00 (rest of the Americas/Europe airmail), \$12.50 (Australia/Japan/New Zealand airmail). Non-IRCA members - add \$2.00.

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IRCA Slogans List (Winter 2007)

This completely revised Slogans List which includes radio slogans from the US, Canada and Mexico (over 4000) is now available from the IRCA Bookstore.

Prices: **IRCA/NRC members** - \$6.00 (US/Canada/Mexico/sea mail), \$8.00 (rest of the Americas/Europe airmail), \$8.50 (Australia/Japan/New Zealand airmail). Non-IRCA/NRC members - add \$1.00. To order send the correct amount (in US funds payable to **Phil Bytheway**) to: **IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117-2334** (email: phil_tekno@yahoo.com).

DX TESTS - BROADCAST TEST COORDINATOR

Jim Pogue, PO Box 3777, Memphis TN 38173-0777

Email: KH2AR@comcast.net (times are Eastern) <http://www.dxtests.info>

Sun 10/21/07	0300-0500	1290	WIRL	Peoria IL	(Miller)
Sat 10/27/07	0400-0430	1220	WLPO	La Salle IL	(Vogler)
Mon 10/29/07	0400-0500	780	WCXH	Monticello ME	(Weiner)
Sun 11/ 4/07	0500-0530	1420	WIGG	Wiggins MS	(Turner)
Sun 12/16/07	0300-0400	1400	KQMS	Redding CA	(Myers/Mena)

WIRL 1290 kHz Peoria, IL DX Test.

Date: Sunday morning (late Saturday night), Oct. 21, 2007. Time: 2 - 4 am Central Time. 5,000 watts using their normal daytime pattern. Programming will consist of voice IDs, Morse code, 1,000 Hz tones and regular format Classic Country music. Reception reports may be sent to Wayne R. Miller, Chief Engineer, WIRL Radio, 331 Fulton Suite 1200, Peoria IL 61602. The station will accept

recordings by e-mail or on disk (.mp3 or .wav OK but no cassettes please). Address for e-mail reports is wrm@impradio.com. NOTE: All requests for verifications must be accompanied by return postage in order to receive a reply. No eQSL service is being offered for this test. Our sincere thanks to Chief Engineer Wayne Miller for agreeing to conduct this test.

WLPO 1220 kHz La Salle, IL DX Test.

Date: Saturday morning (late Friday night), Oct. 27, 2007. Time: 3:00 - 3:30 a.m. Central Time. 1,000 watts using their normal daytime pattern. Programming will consist of phonetic voice IDs, Morse code, sweep tones and unique music. Reception reports may be sent to Steve Vogler, Chief Engineer, WLPO Radio, 1 Broadcast Lane, Oglesby IL 61348. The station will accept recordings by e-mail or on disk (.mp3 or .wav OK but no cassettes please). Address for e-mail reports is steve@wipo.net. NOTE: All requests for verifications must be accompanied by return postage in order to receive a reply. Our sincere thanks to Chief Engineer Steve Vogler for agreeing to conduct this test.

WCXH 780 kHz Monticello, ME DX Test.

Date: Monday morning (late Sunday night), Oct. 29, 2007. Time: 4 - 5 a.m. Eastern Time. 0800 - 0900 UTC. 5,000 watts using non-directional antenna pattern. Programming will consist of special voice announcements, march and other special music, Morse code and sweep tones. Reception reports may be sent to Mr. Allan H. Weiner, WCXH Radio, 274 Britton Rd., Monticello, ME 04760-3110. No eQSL service is being offered for this test. Recordings on disk in .mp3 or .wav format will be accepted as proof of reception. NOTE: All requests for verifications must be accompanied by return postage in order to receive a reply. Our sincere thanks to the legendary Allan Weiner for agreeing to conduct this test.

WIGG 1420 kHz Wiggins, MS DX Test.

Date: Sunday morning (late Saturday night), Nov. 4, 2007. Time: 4:00 - 4:30 a.m. Central STANDARD Time, 1000 - 1030 UTC (please note, this will be the morning we change from DST to standard time in most of North America). 5,000 watts using non-directional antenna pattern. Programming will consist of special voice announcements, Morse code, tones and classic country music. Reception reports may be sent to Mr. Paul A. Turner, WB5TJH, WIGG Radio, 959 N. Magnolia Dr., Wiggins MS 39577. No eQSL service is being offered for this test. Recordings on disk in .mp3 or .wav format will be accepted as proof of reception. NOTE: All requests for verifications must be accompanied by return postage in order to receive a reply. Our sincere thanks to Chief Engineer Paul Turner for agreeing to conduct this test.

KQMS 1400 kHz Redding, CA DX Test

Date: Sunday morning (late Saturday night), Dec. 16, 2007. Time: Midnight - 1 a.m. Pacific Time, 0800 - 0900 UTC. 1,000 watts using non-directional antenna pattern. Programming will consist of special voice announcements, Morse code and/or 1,000 Hz tones. Reception reports may be sent to Ms. Erin Myers, News Director, KQMS Radio, 3360 Alta Mesa Dr., Redding, CA 96002. No eQSL service is being offered for this test. Recordings on disk in .mp3 or .wav format will be accepted as proof of reception. NOTE: All requests for verifications must be accompanied by return postage in order to receive a reply. Our sincere thanks to Ms. Myers and to Chief Engineer Steven Mena for agreeing to conduct this test.

Jim Pogue - KH2AR@comcast.net, www.dxtests.info

IRCA PRESIDENT'S REPORT
Doug Pifer - 3410 Marion St SE, Albany OR 97322-3871
 E-mail: dxer@desert4wd.com

September 27, 2007

Board business:

Proposal 23.1.1: To accept Nick Hall-Patch as Election Committee Chairman for the current term.

PB LF JJ PM JP MS RW
 Y Y Y Y Y Y Y Y

Motion passes. Congratulations Nick.

PB - PHIL BYTHEWAY, LF - LEE FRESHWATER, JJ - JOHN JOHNSON, PM - PATRICK MARTIN,
 JP - JIM POGUE, MS - MIKE SANBURN, RW - ROBERT WIEN
 Y= YES N= NO A= ABSTAIN

Also, as voted by the Board of Directors, Phil Bytheway is the new Chairman of the Board for the current term. Congratulations Phil.

Othersness:

Thanks to all who voted for me to become President of the IRCA. It is quite an honor and I appreciate your support. The IRCA has a great history and my primary goal is to continue along that path. These are interesting and challenging times concerning the broadcast band and I believe the ultimate goal

for our club is to see our hobby through them. Congratulations again to all of our newly elected and the best of DX to all.
73- Doug Pifer

CANADIAN RADIO NEWS

Dan Sys- dsysca@yahoo.ca

For September 2007 (October 1 2007) (next update November 1 2007)

OWNERSHIP CHANGES GRANTED

560 BC Prince Rupert
590 BC Terrace
610 ON St. Catharines
650 BC Richmond
800 BC Penficon
800 QC Montreal
820 ON Hamilton
870 BC Invermere
890 BC Dawson Creek
1010 ON Toronto
1060 AB Calgary
1150 BC Kelowna
1150 ON Hamilton
1240 BC Osyoos
1260 AB Edmonton
1290 ON London
1340 BC Creston
1340 BC Revelstoke
1400 BC Golden
1400 BC Princeton
1410 ON London
1450 BC Summerland

CFBK From Standard Radio to Astral Media
CFTK From Standard Radio to Astral Media
CKTB From Standard Radio to Astral Media
CISL From Standard Radio to Astral Media
CKOR From Standard Radio to Astral Media
CJAD From Standard Radio to Astral Media
CHAM From Standard Radio to Astral Media
CKIR From Standard Radio to Astral Media
CJDC From Standard Radio to Astral Media (includes C.JDC-1 92.7 Tumbler Ridge)
CFRB From Standard Radio to Astral Media
CKMX From Standard Radio to Astral Media
CKFR From Standard Radio to Astral Media
CKOC From Standard Radio to Astral Media
CJOR From Standard Radio to Astral Media (includes CJOR 102.9 Oliver)
CFRN From Standard Radio to Astral Media
CJBK From Standard Radio to Astral Media
CFKC From Standard Radio to Astral Media
CKCR From Standard Radio to Astral Media
CKGR From Standard Radio to Astral Media
CIOR From Standard Radio to Astral Media
CKSL From Standard Radio to Astral Media
CHOR From Standard Radio to Astral Media

PROPOSED TECHNICAL CHANGES

990 YT Watson Lake
CBDB Increase power from 40 watts (fulltime) to 400 watts (days) / 165 watts (nights)

WESTERN DX ROUNDUP

Nancy Johnson - 265 Waterton Wy - Billings, MT 59102-7755

E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Each Friday. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

(GH) Glen Hansen-1925 Tualatin St.-St. Helens, OR 97051 skinner@columbia-center.org
Drake R8B, R-388, R-390A, Hammarlund SP-600, various wires, Radio Shack and Sansenno loops

(JcJ&NJ) John & Nancy Johnson-On the road in Washington State

(PM) Patrick Martin-PO Box 843-Seaside, OR 97138-0843 mwdxer@webtv.net

(BN) Bill Nittler-108 El Mundo Road-Belen, NM 87002 nittlers2@cnsnp.com

(5P) Dale Park-PO Box 10640-Honolulu, HI 96816 dxfool@aol.com

(DR) Dan Riordan-23858 SW Warbler Place-Sherwood, OR dxrmw@earthlink.net

Drake R8, WNW EWE, SW EWE, phasing unit

Drake R8, Sony 2010, Palomar loop, random wire, Quantum Phaser

530 HAR WA, Cle Elum 9/26 1105 Washington DOT highway advisory for bicyclists on the highway from Cle Elum to Leavenworth on Sunday Aug. 5th (seven weeks earlier).
HAR WA, near Peshastin 9/26 1136 "This is KNNU861 Washington State Department of Transportation HAR at the Big Y junction" repeated over & over, no other information given. Heard just south of the junction of highways 2 & 97. (JcJ&NJ-WA)

153 RUSSIA, Radio Rossii 1146 on 9/26 weak with man in RR. Fair also on 1256. (DV-WA)
180 RUSSIA, Radio Rossii weak at 1220 9/26. (DV-WA)
189 RUSSIA, Radio Rossii very weak at 1221 9/26. (DV-WA)
279 RUSSIA, Radio Rossii 1202 fair with man in RR. Good 1257 at S9+20DB at 1321 9/26. (DV-WA) (Wow! That is quite a signal for that Russian, Dennis. Good going. PM)

531 AUSTRALIA, Cairns 4KZI/Port Macquarie 2PM, mix here at 1330 10/1. (PM-OR)

580 KMJ CA, Fresno 9/24 0057 tail end of "Drudge Report," PSA, ID "The 50,000 watt traffic, information and... (briefly into narrow-filter voice than normal) ...KMJ Fresno," CBS news. Fair, KSSK-590 splatter. (5P-HI)
680 ?KBRW?AK, Barrow 9/27 with KNBR in a very tight phase at 0300, under/over CHFA, heard man say "...Barrow, Alaska." Presume ID, but very tough. Conditions to the north very good tonight, with KYUK-640 at armchair copy. (PM-OR)
700 KXLX WA, Airway Heights 9/23 0538 ad for SpokaneHelpWanted.com into "700 ESPN. The Ticket." Very strong for listed 600 watts. Power change or day power? New. (DR-OR)
760 KTKR TX, San Antonio 9/23 0105 ID "San Antonio's Sports Ticket", then into Fox Sports. (BN-NM)

780 WBBM IL, Chicago 9/23 0521 very strong signal, at times over KKOH Reno. (DR-OR)
1100 KNZZ CO, Grand Junction 9/14 0300 with "The official home of Fox News." (DR-OR)
1120 KZSJ CA, San Martin 9/19 2212 with ID mentioning San Martin, San Jose and the Bay Area, into presumed Vietnamese programming, under KPNW Eugene, Oregon. New. (DR-OR)

1250 KZDC TX, San Antonio 9/17 2102 ID in Spanish and English "Radio Lupe" and "Fabolitas," heard almost nightly since with love ballads in Spanish. 9/23 with high school football in English at 2030. (BN-NM)

1370 KUPA HI, Pearl City 9/21 1917 noted back on the air after a week off, still with Fox Sports Radio feed 24/7. For some reason the station IDs are gone. (5P-HI)
1390 KJOX WA, Yakima 9/20 2140 KJOX call heard into ESPN Radio. New. (DR-OR)
1610 KNEF687 WA, North Bend 9/26 1030 Washington DOT station with info for motorists traveling on I-90 (detours, etc). Same message heard at mile post #45. (JcJ&NJ-WA)

WDXR deadlines are now weekly again. Let's hear from you! Nancy 9/29 2100

EASTERN DX ROUNDUP

Lee J. Freshwater - 414 SE 3rd St. - Ocala, FL 34471

E-mail: lfreshwater@cox.net

Deadlines: Saturdays Noon! SATURDAYS!!!

(WM-MD) William McGuire 2412 59th Place, Cheverly MD
***** STAR OF THE WEEK *****
DX-398

LOGGINGS

830 PA WEEU Reading, 9-17 1905 Promo for Phillies game; ID.
920 ON CKNX Wingham, 9-18 2005 Boston/Toronto baseball. "The Fan".

1260 ?? ??? 9-19 2008, Radio Disney heard.
(WVWK Cleveland ???-ed)

1280 ?? ??? 9-21 1950, HS FB Westside Rams vs Thoroughbreds.
(This was WANS Anderson, SC. A bit of net research found Westside HS Rams located in Anderson. They beat South Aiken Thoroughbreds 22-14-ed)

***** UNIDEN *****
Well, a small column this week, gave me a chance to research Williams UNIDEN. Where is everyone???

DX WORLDWIDE - WEST / TROPICAL BAND DX

Patrick Martin - P.O. Box 843 - Seaside OR 97138

E-mail: mwdxer@webtv.net all times UTC

After a blockbuster couple of weeks, the A&K went up and the amount of DX went down. But as I type this, I noticed the A&K are back on its way down again. But we still have some nice tips this week along with a few QSLs too.

TRANS PACIFIC DX ROUNDUP

153 RUSSIA, Radio Rossii 1146 on 9/26 weak with man in RR. Fair also on 1256. (DV-WA)

180 RUSSIA, Radio Rossii weak at 1220 9/26. (DV-WA)

189 RUSSIA, Radio Rossii very weak at 1221 9/26. (DV-WA)

279 RUSSIA, Radio Rossii 1202 fair with man in RR. Good 1257 at S9+20DB at 1321 9/26. (DV-WA) (Wow! That is quite a signal for that Russian, Dennis. Good going. PM)

531 AUSTRALIA, Cairns 4KZI/Port Macquarie 2PM, mix here at 1330 10/1. (PM-OR)

540 JAPAN, JJ synchros //531 with JJ talk 1331 9/25. (PM-OR)
 549 JAPAN, Okinawa JOAP fair in 550 KMV/IKOAC splatter //540 with gal in JJ 1331 9/25. (PM-OR)
 558 JAPAN, Kobe JOCR 1334 weak w/mx 9/27. (DV-WA)
 558t PHILIPPINES, Pasig DZXL, presume the Tagalog talk topping JOCR at 1415 9/25. (PM-OR)
 567 JAPAN, Sapporo JOIK 1339 weak with JJ talk, but stronger signal than //594 9/27. (DV-WA)
 594 JAPAN, Tokyo JOAK poor with man in JJ 1304 9/26. (DR-OR)
 612 PHILIPPINES, Cebu City DYHP nice signal with man in Tagalog at 1410, mentioned DYHP in conversation with woman 9/25. (PM-OR)
 630 AUSTRALIA, Townsville 4QN good signal pretty much owning the channel with man in Aussie accent 1340 9/26. (PM-OR)
 648 PHILIPPINES, interesting Filipino here with long winded sounding speech at 1340 9/26, with no SS or EE words as far as I could tell. Per e mail from Charles Taylor who was stationed in the FE, suggested the Philippines Broadcasting Service (PBS) as they may be broadcasting with Filipino, the national language free of SS or EE words. This station is on Palawan Island. I have sent a CD to Charles to see if he can figure it out. I am keeping my fingers crossed. (PM-OR)
 648 RUSSIA weak 1343 9/27 with woman in Asian language. (DV-WA)
 657t DR KOREA, Kangam, Pyongyang Broadcasting Station, Very poor in splatter with what sounded like a man speaking in KK? at 1314 UTC 9/26 Tentative. (DR-OR)
 666 JAPAN, Osaka JOBK 1225 9/27 woman singing in JJ. (DV-WA)
 680t ALASKA, Barrow KBRW, with KNBR in a very tight phase at 0700 u/o FF talker CHFA heard man say "...Barrow Alaska", presumed part of the ID, but it was very rough. CX towards the North very good tonight. KYUK 640 was armchair copy tonight. 9/27. I am bound to finally nab KBRW with a decent ID in time, but boy is KNBR tough to get around. (PM-OR)
 684 PHILIPPINES, Unid here but man with Filipino talk 1350 9/26. (PM-OR)
 693 JAPAN, Tokyo JOAB poor with female speaking ?? 1322 9/26. (DR-OR)
 702 JAPAN, JO. 1235 9/27, weak NHK2/1774. (DV-WA)
 765 UNID, weak strange sounded station, mostly in the much at 1345-1420 off and on 9/26 which sounded like Indian Film pop music. At one point a female anc, but hard to make anything out. I checked the rest of the week and not there. But whatever it was, it would make an interesting catch. (PM-OR)
 774 JAPAN, Akita JOUB good with man in JJ 1300 9/26. (DR-OR)
 828 JAPAN, Osaka JOBB fair with female speaking JJ 1258 9/26. (DR-OR)
 873 JAPAN, Kumomoto JOGB 1253 9/27 very weak. (DV-WA)
 891 JAPAN, Sendai JOHK 1403 9/27, JJ talk very weak //JOAK 594 had faded out by this time. (DV-WA)
 1017 PHILIPPINES, Davao City DXRR, now being used ex DXAM, with end of program and man anc "D-X-Double R... 10,000 watts...." Quite good and dominant on channel at 1410 9/25. (PM-OR)
 1242 JAPAN, Tokyo JOLF 9/26 1306 UTC, JJ talk by man. This is my first time to get audio on 1242. (BB-AZ) (Great catch Bill, for that far inland. PM)

QSLs

1071 AUSTRALIA, Maryborough, 3EL "Easy Mix 10-71", Call letters are not used on the air though, per the manager, Bruce Lees, that is the reason I never caught any call with their slogan, but my report with the spots was correct, even verified by their night logger. 5 KW directional. A very nice letter in 25d. Also sent back my \$2 U.S., as it was their pleasure to reply. I thought that was really nice. Also had beautiful colorful stamps on the envelope. Victoria #33, and Australian #226. (PM-OR)
 1170 PHILIPPINES, Poro, rec nice QSL card with VOA sticker and program guide in 25d. Philippine QSL #25. (PM-OR)

THANKS TO THESE REPORTERS

BB-OR BILL BLOCK, Prescott Valley AZ billwblock@msn.com
 DR-OR DXing with Drake R8, EWE antenna
 DAN RIORDAN, Sherwood OR dxrmw@earthlink.net
 DXing with Drake R8, Sony 2010, Palomar Loop, random wire, Quantum Phaser
 DV-WA DENNIS VROOM, Vancouver WA vroomski@comcast.net
 DXing with JRC 545 + R8 + R390A, NW EWE, West Loop, H-800 active Whip
 PM-OR PATRICK MARTIN, PO Box 843, Seaside OR 97138-0843 mwdxer@webtv.net
 DXing with Drake R8, Drake SPR4, WNW EWE and SW EWE



DX WORLDWIDE - EAST

Brandon Jordan – 4920 Park Ave. – Memphis, TN 38117

E-mail: dxww-e@bcdx.org all times UTC

Hi folks and welcome to another edition of DXWW-East.

***** TRANS-ATLANTIC DX *****

531 SPAIN RNE Radio Nacional 5 synchros, SEP 7 0006 - // 684 with soft piano music, then man in Spanish; to fair peak. [Connelly*rw-MA]
 + SEP 20 0008 - // 684 with two men talking; over others. [Connelly*R-MA]
 531 UNID (possibly FAREOS) SEP 20 0011 - '40s style lounge-jazz female English vocal; over Spain. Not parallel to 549 Algeria or 666 Portugal. [Connelly*R-MA]
 549 ALGERIA Alger Chaîne 1, Les Trembles, SEP 7 0010 - Arabic instrumental music: flutes, strings, drums. [Connelly*rw-MA]
 + SEP 16 0428 - female Arabic vocal & strings; light audio on big carrier. [Connelly*B-MA]
 + SEP 20 0010 - two men in Arabic; about equal to Germany. [Connelly*R-MA]
 549 GERMANY Deutschlandfunk, Nordkirchen & Thurnau, SEP 20 0010 - modern classical music; over/under Algeria. [Connelly*R-MA]
 558 SPAIN RNE Radio Nacional 5 synchros, SEP 7 0010 - // 684 with discussion; fair. [Connelly*rw-MA]
 + SEP 20 0009 - Spanish man; through WGAN slop. [Connelly*R-MA]
 567 IRELAND RTE 1, Tullamore, SEP 7 0011 - mellow female folk vocal, then announcer mentioned the names of the titles and artists of the last few songs with extended comments about a singer from County Clare; good, over Spain. [Connelly*rw-MA]
 + SEP 20 0010 - classical piano music, English announcer; fair to good. [Connelly*R-MA]
 + SEP 23 2352 - song "Georgia On My Mind", then woman mentioned listener in Mullingar, good.
 + SEP 24 0047 - Julio Iglesias & Willie Nelson song "To All the Girls I've Ever Loved Before"; good. [Connelly*B-MA]
 567 SPAIN RNE Radio Nacional 5 synchros, SEP 20 0013 - // 684 with two men in Spanish; under Ireland. [Connelly*R-MA]
 576 CANARY ISLANDS // SPAIN RNE Radio Nacional 5 synchros, SEP 7 0006 - piano // 684; fair. [Connelly*rw-MA]
 + SEP 20 0013 - conversation // 684; fair to good. [Connelly*R-MA]
 576 GERMANY SWR Cont. Radio/MDR Info, Muhlacker, SEP 7 0006 - man in German; briefly over Canarias-Spain. [Connelly*rw-MA]
 585 SPAIN RNE Radio Nacional 1, Madrid, SEP 7 0006 - // 684 with piano music, then man in Spanish; good. [Connelly*rw-MA]
 + SEP 20 0012 - // 684 with announcer to man on phone "Antonio, buenas noches", then interview; loud. [Connelly*R-MA]
 594 PORTUGAL Radio Renascença, Muge, SEP 20 0011 - Portuguese talk by man; poor. [Connelly*R-MA]
 603 FRANCE France Info, Lyon-Tramoyes, SEP 7 0006 - man in French, bumper music inserts between talking; good, way over Spain. [Connelly*rw-MA]
 + SEP 20 0012 - soft music, then man & woman in French with inserted bits of music; atop Spain. [Connelly*R-MA]
 603 SPAIN RNE Radio Nacional 5 synchros, SEP 20 0114 - // 855 with woman in Spanish; fair, over France. [Connelly*R-MA]
 612 MOROCCO RTM A, Sebba-Aioun, SEP 7 0012 - compressed "boxy" audio on Arabic male vocal with orchestra; LOUD. [Connelly*rw-MA]
 + SEP 20 0008 - vocal music with orchestra, man & woman in Arabic, then more music; good. [Connelly*R-MA]
 621 CANARY ISLANDS // SPAIN RNE Radio Nacional 1 synchros, Santa Cruz de Tenerife et al, SEP 7 0011 - // 585 with man in Spanish; fair. [Connelly*rw-MA]
 + SEP 20 0013 - // 585 with man in Spanish; seemingly weaker than usual. [Connelly*R-MA]
 630 TUNISIA ERTT, Tunis, SEP 7 0009 - Arabic female vocal; slightly under WPRO and over CHLT. [Connelly*rw-MA]
 639 SPAIN RNE Radio Nacional 1, La Coruña et al., SEP 7 0006 - // 585 with light piano music, then Spanish talk; to good peak. [Connelly*rw-MA]
 + SEP 16 0421 - talk by man & woman; fair past CBN. [Connelly*B-MA]
 + SEP 20 0013 - teletalk // 585; good. [Connelly*R-MA]
 648 SPAIN RNE Radio Nacional 1, Badajoz et al., SEP 20 0013 - teletalk // 585; poor. [Connelly*R-MA]
 657 SPAIN RNE Radio Nacional 5, Madrid, SEP 7 0001 - news by man & woman; fair. [Connelly*rw-MA]

- + SEP 20 0012 - // 684 with phone interviewer "Antonio, buenas noches..."; loud.
[Connelly**R-MA*]
- 666 **PORTUGAL** *RDP Antena 1* synchros, SEP 6 2358 - // 720 with "Silver Spring" by Fleetwood Mac; fair. [Connelly**rw-MA*]
+ SEP 20 0008 - // 720 with man in Portuguese, a bit of dreamy instrumental music, then a female version of "Misty" (the Johnny Mathis song); good. [Connelly**R-MA*]
- 675 **LIBYA** *Libyan Jamahiriya*, Benghazi, SEP 19 2343 - Arabic phone interview; to good peak.
+ SEP 20 0011 - reverberated Arabic talk by woman; to good peak, no sign of Netherlands.
[Connelly**R-MA*]
- 675 **NETHERLANDS** *Arrow Rock*, Lopik, SEP 6 2359 - "Under the Bridge" by Red Hot Chili Peppers; to fair peak with WRKO phased.
+ SEP 7 0010 - Doobie Bros. "Long Train Running"; fair. [Connelly**rw-MA*]
- 684 **SPAIN** *RVE Radio Nacional 1*, Sevilla, SEP 7 0000 - pips, Spanish news.
+ SEP 7 0006 - // 531 with piano music, then man in Spanish; loud. [Connelly**rw-MA*]
+ SEP 20 0012 - interview; loud. [Connelly**R-MA*]
- 693 **SPAIN** *RVE Radio Nacional 1* synchros, SEP 20 0001 - // 684 with Spanish news by woman; breaking over UK and presumed Azores. [Connelly**R-MA*]
- 693 **UNITED KINGDOM** *BBC Radio 5*, Droitwich et al., SEP 6 2357 - US-accented man in interview; fair.
+ SEP 7 0007 - mention of Americans. [Connelly**rw-MA*]
+ SEP 20 0000 - news, Five Live mention; over jumble of others. [Connelly**R-MA*]
- 702 **unID** SEP 20 0003:25 - fanfare music that reminds of something heard on one of the Saudis. No parallels noted in this SDR-IQ capture segment.
+ SEP 20 0135 - Arabic talk mentioning Oman; no parallels noted. [Connelly**R-MA*]
- 711 **FRANCE** *France Info*, Rennes, SEP 20 0131 - // 1206 with woman in French talking about politics, business, education; excellent. [Connelly**R-MA*]
- 711.05 **WESTERN SAHARA** *RTM*, Addakla, SEP 6 2357 - Arabic vocal & strings; good, over growl from 711.00 France. [Connelly**rw-MA*]
- 720 **CANARY ISLANDS** *RVE Radio Nacional 5*, Finca España, SEP 7 0006 - // 684 with piano music; briefly over Portugal. [Connelly**rw-MA*]
- 720 **PORTUGAL** *RDP Antena 1* synchros, SEP 6 2358 - // 666 with "Silver Spring" by Fleetwood Mac; to fair peak.
+ SEP 7 0011 - // 666 with blues music; now atop Canaries. [Connelly**rw-MA*]
- + SEP 20 0011 - // 666 with female version of Johnny Mathis hit "Misty"; fair. [Connelly**R-MA*]
- 729 **SPAIN** *RVE Radio Nacional 1* synchros, SEP 7 0000 - // 738 with news by woman in Spanish; through CKAC slop. [Connelly**rw-MA*]
- + SEP 20 0130 - talk // 774; through slop. [Connelly**R-MA*]
- 738 **SPAIN** *RVE Radio Nacional 1*, Barcelona, SEP 7 0000 - // 729 with news; fair.
+ SEP 20 0000 - six pips (last one longer than others), Radio Nacional de España ID, news; fair through CHCM slop.
+ SEP 20 0128 - // 855 with music fragment, then teletalk; through CHCM slop. [Connelly**R-MA*]
- 747 **CANARY ISLANDS // SPAIN** *RVE Radio Nacional 5* synchros, SEP 7 0001 - Spanish news // 738 starting to gain on Netherlands. [Connelly**rw-MA*]
+ SEP 16 0420 - Spanish talk; fair. [Connelly**B-MA*]
+ SEP 20 0001 - very fast paced Spanish talk by woman, not // to 684 at the time.
- 747 **NETHERLANDS** *Radio 5*, Flevoland, SEP 6 2358 - woman in Dutch, then lush instrumental music; dominant. [Connelly**rw-MA*]
+ SEP 20 0002 - Dutch news by man; to good peak.
+ SEP 20 0127 - avant-garde / modern symphonic music; about even with Canaries-Spain. [Connelly**R-MA*]
- 747 **unID** SEP 20 0001 - Middle East music mixing with Netherlands and Canaries-Spain. [Connelly**R-MA*]
- 756 **GERMANY** *Deutschlandfunk*, Braunschweig & Ravensburg, SEP 7 0000 - news by man in German; mixing with Spain.
+ SEP 7 0017 - symphonic electronic music (style of Stockhausen); loud / dominant. [Connelly**rw-MA*]
- + SEP 20 0000 - German news by woman; over Spain.
+ SEP 20 0126 - classical piano; over Spain. [Connelly**R-MA*]
- 756 **SPAIN** *Radio Euskadi*, Bilbao, SEP 7 0000 - news by woman in Spanish; about even strength with Germany.
+ SEP 7 0022 - fast Spanish talk; briefly over Germany. [Connelly**rw-MA*]
- 765 **SWITZERLAND** *RSR Option Musique*, Sottens, SEP 7 0001 - French news mentioning Etats Unis; good.
+ SEP 7 0016 - "Xanadu" by Olivia Newton John, then woman in French; very good. [Connelly**rw-MA*]
- + SEP 20 0125 - romantic French female vocal; excellent, well over Arabic chant station. [Connelly**rw-MA*]
- 765 **unID** SEP 6 2358 - reverberated male Koranic a cappella vocal; briefly blasting over Switzerland. Channel has Saudi Arabia, Iran, Sudan, and Turkey listed but not all are scheduled to be on air at the time. [Connelly**rw-MA*]
- 774 **EGYPT** *Middle East Radio*, Abis, SEP 20 0000 - four bells (middle two at a lower pitch than the first and last), then Arabic talk, brief fanfare music, more talk; over Spain. [Connelly**R-MA*]
- 774 **SPAIN** *RVE Radio Nacional 1* synchros, SEP 6 2358 - // 684 with slow Spanish talk by man and interspersed bits of music. [Connelly**rw-MA*]
+ SEP 20 0001 - // 684 with Spanish news by woman; now taking over dominance from Egypt. [Connelly**R-MA*]
- 783 **MAURITANIA** *Radio Mauritanie*, Nouakchott, SEP 7 0001 - man in Arabic with news items separated by short musical bursts / "stingers" as on some '50s-era US stations; good. [Connelly**rw-MA*]
- 783 **SPAIN** *Rock y Gol Radio Miramar*, Barcelona, SEP 20 0000 - news by man & woman in Spanish; to fair peak, dominant. [Connelly**R-MA*]
- 783 **SYRIA** (t) *Syrian Arab Republic BC*, Tartus, SEP 20 0124 - religious Arabic vocal in a large echoey hall seemed // 828 (but that was getting hammered by WCRN, so tough to tell); weaker than Mauritania had been earlier. [Connelly**R-MA*]
- 792 **FRANCE** *France Info*, Limoges, SEP 7 0000 - music fanfare, ID & time "France Info, deux heures", then man read news; to good peak. [Connelly**rw-MA*]
+ SEP 20 0000 - France info top-of-hour musical flourish, then news by woman; fair.
+ SEP 20 0122 - // 1206 with woman in French; good. [Connelly**R-MA*]
- 792 **unID** SEP 7 0019 - female Arabic vocal clobbering usual France and Spain. Yemen listed with big power, but schedule doesn't fit. There are also lower-powered stations in Libya and Saudi Arabia. [Connelly**rw-MA*]
- 801 **SPAIN** *RVE Radio Nacional 1* synchros, SEP 20 0000 - pips, Spanish news; mixed with others.
+ SEP 20 0122 - // 774 with ballad; poor to fair. [Connelly**R-MA*]
- 818.94 **MOROCCO** *RTM*, Rabat, SEP 20 0003 - bits of talk but mostly just a big 60 Hz growl against stronger Egypt. [Connelly**R-MA*]
- 819 **EGYPT** *ERTU*, Batra, SEP 20 0006 - Arabic talk by man & woman; to good peak over Morocco growl. [Connelly**R-MA*]
- 828 **unID** SEP 7 0017 - male Arabic vocal seemed // 818.94 so possibly Morocco. [Connelly**rw-MA*]
- 837 **CANARY ISLANDS // SPAIN** *COPE* synchros, SEP 7 0017 - Spanish talk; under France. [Connelly**rw-MA*]
- + SEP 16 0418 - man in Spanish; good / dominant. [Connelly**B-MA*]
- + SEP 20 0000 - pips, echoey Spanish news; to fair peak. [Connelly**R-MA*]
- 837 **FRANCE** *France Info*, Nancy, SEP 7 0017 - man in French; good, over Canaries-Spain. [Connelly**rw-MA*]
- 855 **ROMANIA** (t) *Romania Actualitate*, Bucuresti, SEP 20 0005 - likely this with dance music similar to program on 1593 a bit earlier; mixing with Spain. [Connelly**R-MA*]
- 855 **SPAIN** *RVE Radio Nacional 1* synchros, SEP 6 2352 - // 936 with Spanish talk; fair.
+ SEP 7 0018 - teletalk with severe echo; loud! [Connelly**rw-MA*]
+ SEP 20 0114 - // 603 with talk; over probable Romania and WEEI slop. [Connelly**R-MA*]
- 864 **EGYPT** *ERTU*, Santah, SEP 7 0019 - Koranic vocal; burying France. [Connelly**R-MA*]
+ SEP 20 0005 - Arabic vocal; atop France. [Connelly**R-MA*]
- 864 **FRANCE** *France Bleu*, Villebon-sur-Yvette, SEP 6 2352 - mellow pop French male vocal; good.
+ SEP 7 0023 - James Brown song; good (and certainly a weird juxtaposition with similar-strength Egypt's Koranic chanting). [Connelly**rw-MA*]
- + SEP 20 0000 - talk by woman, France Bleu jingle, mellow vocal; good.
+ SEP 20 0129 - '80s style French pop-rock. [Connelly**R-MA*]
- 873 **SPAIN** *SER* synchros, SEP 6 2351 - echoey teletalk. [Connelly**rw-MA*]
+ SEP 20 0019 - // 1026 with piano music, then teletalk; fair. [Connelly**R-MA*]
- 873 **unID** SEP 7 0018 - Arabic vocal; over Spain. EMWG list shows Algeria, Saudi Arabia, and Sudan. [Connelly**rw-MA*]
- 882 **CANARY ISLANDS // SPAIN** *COPE* synchros, SEP 6 2350 - dominant with woman in Spanish. [Connelly**rw-MA*]
- 882 **UNITED KINGDOM** *BBC Radio Wales*, Washford, SEP 7 0021 - woman with documentary; through WCBS slop and over briefly-faded COPE. [Connelly**rw-MA*]
- 890.97 **ALGERIA** *Alger Chaîne 1*, Algiers, SEP 6 2351 - pop Arabic male vocal with drumming; good. [Connelly**rw-MA*]
- 909 **UNITED KINGDOM** *BBC Radio 5 Live* synchros, SEP 6 2354 - discussion about British parents who lost their daughter during a trip to Portugal, speculation about foul play; good. [Connelly**rw-MA*]

- 936 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 6 2352 - // 855 with man in Spanish; fair to good. [Connelly*rw-MA]
- 945 **FRANCE** *France Info*, Toulouse, SEP 6 2350 - French talk by woman and interspersed romantic piano music; excellent. [Connelly*rw-MA]
+ SEP 20 0118 - // 1206 with woman in French; good. [Connelly*R-MA]
- 954 **SPAIN** *Onda Cero*, Madrid, SEP 6 2352 - monotone Spanish talk by man; under-likely Qatar at this time, generally dominant at other times. [Connelly*rw-MA]
- 954 **unID** SEP 6 2352 - Arabic female vocal; over Spain for a bit. Qatar suspected though others are possible. [Connelly*rw-MA]
+ SEP 20 0116 - Koranic vocal, light audio on big carrier, over Spain. [Connelly*R-MA]
- 963 **PORTUGAL** *Radio Renascença*, Seixal, SEP 6 2353 - Portuguese teletalk; poor. [Connelly*rw-MA]
+ SEP 20 0116 - man with fast Portuguese talk and teletalk; fair. [Connelly*R-MA]
- 981 **ALGERIA** *RTVA Alger Chaîne 2*, Algiers, SEP 20 0019 - female Arabic vocal; fair. [Connelly*R-MA]
- 999 **SPAIN** *COPE*, Madrid, SEP 6 2352 - man & woman in Spanish; loud, mixed with unID Koranic chanting station. [Connelly*rw-MA]
+ SEP 16 0412 - newstalk by woman; loud. [Connelly*B-MA]
+ SEP 20 0113 - Spanish talk mentioning "internet" and "digital"; good, over Koran station. [Connelly*R-MA]
- 999 **unID** SEP 6 2352 - absolutely enormous signal with Koranic chant, momentarily over Spain which was also huge. Saudi Arabia or Morocco possible. [Connelly*rw-MA]
- 1017 **GERMANY** *SWR Cont. Radio*, Wolfsburg, SEP 6 2351 - two men in German, then a woman; weather items mentioned; loud. [Connelly*rw-MA]
- 1026 **SPAIN** *SER* synchros, SEP 20 0019 - // 873 with piano music interval, then teletalk; fair with WBZ null'd. [Connelly*R-MA]
- 1044 **MOROCCO** *RTM C*, Sebbaâ-Aoum, SEP 6 2332 - reverberated rustic vocal with flute and strings; good, over Spain. [Connelly*rw-MA]
- 1044 **SPAIN** *SER* synchros, SEP 16 0344 - Spanish talk; fair to good with WBZ IBOC off at the time. [Connelly*B-MA]
- 1053 **SPAIN** *COPE* synchros, SEP 19 2258 - bits of Spanish newstalk noted through growl during Libya fade. [Connelly*R-MA]
- 1053.08 **LIBYA** *Libyan Jamahiriya*, Tripoli, SEP 6 2333 - soft-voiced Arabic talk by man; stronger than the stations on 1053.00 at this time. [Connelly*rw-MA]
+ SEP 19 2259 - noted a bit higher (1053.10) with slow male Arabic a cappella vocal; to good peak. [Connelly*R-MA]
- 1062 **DENMARK** *Danmarks Radio*, Kalundborg, SEP 16 0343 - repeated interval signal with xylophone or similar instrument, a few words were said by a man in Danish between the interval signals; excellent, better than 1060 domestics. [Connelly*B-MA]
- 1062 **TURKEY** *TRT-1*, Diyarbakir, SEP 20 0108 - Koranic vocal at light audio level on a strong carrier that was equal to the 1060 jumble. [Connelly*R-MA]
+ SEP 24 0004 - Mideast male vocal; fair. [Connelly*B-MA]
- 1071 **SPAIN** *Euskadi Irratia*, Bilbao, SEP 19 2258 - // 1161 with chime-like instrumental, then Spanish male vocal; poor in CBA slop. [Connelly*R-MA]
- 1080 **SPAIN** *SER* synchros, SEP 19 2258 - // 1179 with woman in Spanish; noted during brief WTIC fade. [Connelly*R-MA]
- 1089 **UNITED KINGDOM** *TalkSport synchros*, SEP 20 0106 - phone number with "double 2, double 3, double 4", talk about firing some old hack from a team and that it's "time to get new blood"; to good peak. [Connelly*R-MA]
- 1098 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 6 2300 - Radio Nacional de Espana ID, news. [Connelly*rw-MA]
+ SEP 19 2242 - // 1125 with romantic vocal, then man & woman talking about it; good. [Connelly*R-MA]
- 1107 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 20 0056 - // 1305 & 1314 with Spanish talk; over growl. [Connelly*R-MA]
- 1116 **SPAIN** *SER* synchros, SEP 16 0409 - man with Spanish talk, teletalk; good. [Connelly*B-MA]
+ SEP 19 2256 - talk // 1179; fair. [Connelly*R-MA]
- 1125 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 19 2242 - // 1098 with romantic vocal, then man & woman in Spanish talking about it; good. [Connelly*R-MA]
- 1134 **CROATIA** *Glas Hrvatske*, Zadar, SEP 19 2245 - // 6165 with Spanish talk "emission de croacia en espanol"; loud. Medium wave better than shortwave.
+ SEP 19 2300 - end of rock song, 3 pips (last one was longer), then into news in Croatian. [Connelly*R-MA]
+ SEP 24 0023 - Slavic talk; excellent, loudest TA at the time. [Connelly*B-MA]
- 1143 **SPAIN** *COPE* synchros, SEP 20 0102 - news by woman in Spanish; over low growl. [Connelly*R-MA]
- 1152 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 19 2300 - pips, echoey news in Spanish. [Connelly*R-MA]
- 1152 **unID** SEP 19 2259 - bits of English talk under Spain; likely something from the UK. [Connelly*R-MA]
- 1161 **SPAIN** *Euskadi Irratia*, San Sebastian, SEP 19 2258 - // 1071 with chime-like instrumental, then Spanish male vocal; poor to fair in WSKW slop. [Connelly*R-MA]
- 1170 **UNITED ARAB EMIRATES** *Radio Sawa*, Al Dhabya, SEP 6 2334 - Arabic vocal, into nice "Radio Sawa" ID, then US soul female vocal; good. [Connelly*rw-MA]
+ SEP 20 0101 - pop Arabic vocal with Indian-style tabla percussion; loud / dominant. [Connelly*R-MA]
- 1179 **CANARY ISLANDS** // **SPAIN** *SER* synchros, SEP 6 2337 - bluesy female vocal then man in Spanish // stronger 1044. [Connelly*rw-MA]
+ SEP 19 2256 - talk // 1116; fair.
+ SEP 20 0100 - echoey Spanish news. [Connelly*R-MA]
- 1179 **ROMANIA** *Romania Actualitata*, Galbeni-Bacau et al., SEP 19 2321 - // 1332 with music; briefly over Canaries-Spain. [Connelly*R-MA]
- 1197 **SPAIN** *Euskadi Irratia*, Vitoria, SEP 6 2334 - man in Spanish, then rock male group vocal; poor. [Connelly*rw-MA]
- 1206 **FRANCE** *France Info*, Bordeaux, SEP 6 2300 - music fanfare, France Info ID, news; fair to good. [Connelly*rw-MA]
+ SEP 16 0346 - talk // 1377; to good peaks. [Connelly*B-MA]
+ SEP 19 2300 - timecheck "une heure", musical fanfare, then news; good. [Connelly*R-MA]
- 1215 **SPAIN** *COPE* synchros, SEP 6 2300 - // 1224 with fast-talk Spanish news by man; fair, dominant. [Connelly*rw-MA]
+ SEP 19 2301 - // 1224 with fast teletalk; under UK. [Connelly*R-MA]
- 1215 **UNITED KINGDOM** *Virgin Radio* synchros, SEP 6 2337 - Police "Every Breath You Take", then INXS "New Sensation"; mixed with Spain. [Connelly*rw-MA]
+ SEP 16 0348 - "Hey There Delilah" by Plain White T's; very good, dominant. [Connelly*B-MA]
+ SEP 19 2248 - "Summer of '69" by Bryan Adams; over/under Spain.
+ SEP 20 0059 - "You Give Love a Bad Name" by Bon Jovi, then Virgin mention; loud. [Connelly*R-MA]
- 1224 **SPAIN** *COPE* synchros, SEP 6 2300 - // 1215 with news in Spanish; poor. [Connelly*rw-MA]
+ SEP 19 2301 - news, teletalk // 1215; fair. [Connelly*R-MA]
- 1242 **FRANCE** *France Info*, Marseille, SEP 20 0058 - // 1206 with nostalgic female vocal (likely Edith Piaf); fair. [Connelly*R-MA]
- 1251 **LIBYA** *Libyan Jamahiriya*, Tripoli, SEP 6 2343 - tinny telco-type audio on man in Arabic; good strength. [Connelly*rw-MA]
+ SEP 20 0057 - Arabic talk; over two others. [Connelly*R-MA]
- 1287 **SPAIN** *SER* synchros, SEP 6 2341 - Spanish folk vocal and guitar; fair to good. [Connelly*rw-MA]
- 1296 **UNITED KINGDOM** *Radio XL*, Langley Mill, SEP 20 0057 - Indian pop music; atop jumble. [Connelly*rw-MA]
- 1305 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 6 2343 - echoey Spanish talk // 1314. [Connelly*rw-MA]
- 1314 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 6 2344 - occasionally emerging from CKEC slop with talk // 1305. [Connelly*rw-MA]
+ SEP 20 0056 - talk // 1107; fair to good. [Connelly*R-MA]
- 1332 **ROMANIA** *Romania Actualitata*, Galati, SEP 19 2321 - // 1179 with music; poor. [Connelly*R-MA]
- 1341 **NORTHERN IRELAND** *BBC Radio Ulster*, Lisnagarvey, SEP 16 0404 - bits of BBC English news; poor. [Connelly*B-MA]
- 1359 **SPAIN** *RNE Radio Nacional*, Arganda del Rey, SEP 6 2345 - Spanish discussion; fair. [Connelly*rw-MA]
+ SEP 16 0404 - man & woman with news in Spanish; to good peak. [Connelly*B-MA]
+ SEP 20 0055 - Spanish; to excellent peak. [Connelly*R-MA]
- 1377 **FRANCE** *France Info*, Lille, SEP 6 2342 - classical music; excellent. [Connelly*rw-MA]
+ SEP 16 0349 - talk // 1206; good. [Connelly*B-MA]
- 1395 **NETHERLANDS** *Big L*, Tintelhaven, SEP 6 2342 - English talk, then disco song; fair. [Connelly*rw-MA]
+ SEP 20 0054 - "Bat out of Hell" by Meatloaf; fair. [Connelly*R-MA]
- 1404 **FRANCE** *France Info* synchros, SEP 20 0051 - // 1206 with phone interview; poor to fair. [Connelly*R-MA]
- 1413 **SPAIN** *RNE Radio Nacional 5* synchros, SEP 6 2342 - Spanish talk by woman, then man; good. // weaker 1359.
- + SEP 7 0030 - teletalk // 1503; fair. [Connelly*rw-MA]
- 1422 **ALGERIA** *RTA*, Algiers, SEP 7 0032 - Arabic vocal; over Germany. [Connelly*rw-MA]

720 **unID** SEP 20 0000:45 - code beeps "HIEH" sounded once, maybe as part of newscast. Mixed with a Portuguese talker (Portugal or Brazil) and general jumble of others. I'm not even sure if this unID is Pan-American or TA. [Connelly*rw-MA]

750 **VENEZUELA** RCR, YVKS, Caracas, SEP 6 2358 - Venezuelan newscast mentioning Maracaibo and other cities; noted during audio pause on dominant CBGY. [Connelly*rw-MA]

760 **BRAZIL** *Radio Uirapurú*, ZYH588, Fortaleza, SEP 7 0000 - "Uirapurú AM" ID; over noise / jumble. [Connelly*rw-MA]

760 **COLOMBIA** RCN, HJAJ, Barranquilla, SEP 20 0000 - Colombia and Barranquilla mentions in news; to fair peak. [Connelly*rw-MA]

770 **COLOMBIA** RCN, HJUX, Bogotá, SEP 7 0018 - probably this with Barranquilla mention; under WABC. [Connelly*rw-MA]

770 **CUBA** *Radio Rebelde*, SEP 20 0000 - // 710 with Cuban political speech; under WABC. [Connelly*rw-MA]

780 **VENEZUELA** *Radio Coro*, YVMN, Coro, SEP 20 0000 - Radio Coro ID popped through during brief CFDR fade. [Connelly*rw-MA]

800 **NETHERLANDS ANTILLES** *Trans-World Radio*, PJB, Bonaire, SEP 7 0020 - southern US accented preacher, then hymn; over CJAD and country music that was probably YOWR. [Connelly*rw-MA]

+ SEP 20 0000 - ID "TransWorld Radio, Netherlands Antilles", then into "Through the Bible" program; over others. [Connelly*rw-MA]

820 **ST. KITTS & NEVIS** *Trinity Broadcast Network / Radio Paradise*, Charlestown, SEP 7 0017 - preacher "We're all sinners who can be saved by grace.", talk about evangelistic meeting in Los Angeles; good, largely over WNYC. [Connelly*rw-MA]

840 **BRAZIL** *Radio Bandeirantes*, ZYK687, São Paulo, SEP 7 0017 - end of rock song, then man & woman in Portuguese; fair over WHAS, others. [Connelly*rw-MA]

860 **BRAZIL** *Radio CBN*, ZYJ459, Rio de Janeiro, SEP 7 0019 - most likely this with bits of sporting event coverage by man in Portuguese, reverb on audio; sometimes over CJBC. [Connelly*rw-MA]

870 **CUBA** *Radio Reloj*, SEP 6 2354 - Reloj program; through WLYP, others. [Connelly*rw-MA]

895 **ST. KITTS & NEVIS** *Voice of Nevis*, Bath Village, SEP 6 2354 - shouting announcer, then reggae (t); to fair peak. [Connelly*rw-MA]

960 **BRAZIL** (t) *Radio São Paulo*, ZYK689, São Paulo, SEP 6 2351 - possibly this with bits of religious-sounding Portuguese talk battling it out with the Cuban Reloj and some weak domestics. [Connelly*rw-MA]

960 **CUBA** *Radio Reloj*, SEP 6 2351 - Reloj news, ticks, beeps; over weak domestics and an apparent Brazilian. [Connelly*rw-MA]

1000 **BRAZIL** *Radio Record*, ZYK522, São Paulo, SEP 6 2354 - fast Portuguese sportstalk; fair in upper sidebar to dodge monster 999. [Connelly*rw-MA]

1020 **CUBA** *Radio Reloj*, SEP 6 2353 - Reloj news & time show; dominant. [Connelly*rw-MA]

1160 **BERMUDA** *VS3*, Hamilton, SEP 6 2301 - "BBC news, I'm Ellen Marston"; briefly through WSKW. [Connelly*rw-MA]

1200 **VENEZUELA** *Radio Tiempo*, YVOZ, Caracas, SEP 6 2332 - two Radio Tiempo ID's; over WKOX/mess. [Connelly*rw-MA]

1500 **VENEZUELA** *Radio Dos Mil*, YVRZ, Cumana, SEP 7 0033 - slogan "Dos Mil, la última"; over/under WTWP. [Connelly*rw-MA]

*** CONTRIBUTOR ***

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Receivers: RFSpace SDR-IQ, Drake R8A, Phasing Unit: DXP-6A, Splitter: Mini-Circuits ZSC-2-2, MP3 Recorder: Pogo Radio YourWay LX

[Connelly*B-MA] = Billerica, MA, USA (GC=42.5332 N / 71.2205 W) (home)

Antenna System: SuperLoop, peak east / null west, 10 m vertical by 16 m horizontal, base height 1.5 m + longwire, west-east, 30 m, to 4:1 transformer

[Connelly*R-MA] = Rockport, MA, USA (GC=42.667 N / 70.621 W) Granite Pier

Antenna System: cardioid array on roof of car = Vertical: 3.7 m whip (MFJ-1956) to 81:1 transformer to DX Engineering RPA-1 amp +Loop: broadband, in vertical plane, square, 2 m per side, to 1:1 transformer to DX Engineering RPA-1 amp, peak east-west, null north-south

[Connelly*rw-MA] = Rowley, MA, USA (GC=42.7436 N / 70.8367 W) (salt-marsh)

Antenna System: two verticals, phased, spacing = 50 m on east-west line, both = 3.7 m whip (MFJ-1956) to 81:1 transformer to DX Engineering RPA-1 amp

73, Brandon.



1422 **GERMANY** *Deutschlandfunk*, Heusweiler, SEP 20 0050 - classical piano; excellent, over Algeria. [Connelly*rw-MA]

1431 **DJIBOUTI** *Radio Sawa*, Arta, SEP 7 0030 - mellow vocal, Radio Sawa ID by woman, then synthesizer and drum-heavy dance music with Arabic vocal; good. [Connelly*rw-MA]

+ SEP 20 0050 - energetic Arabic dance music; loud. [Connelly*R-MA]

1449 **LIBYA** *Voice of Greater Arab Homeland*, Misurata, SEP 16 0351 - Arabic female vocal; blowing by the 1450 WNBPF/GF ABWR/KD melange. [Connelly*B-MA]

+ SEP 20 0049 - // 675 with woman in Arabic; good. [Connelly*R-MA]

1467 **FRANCE** *TWR*, Roumoules, SEP 16 0400 - sounded like German religious talk; surfacing over tough 1470 WLMW/AZN slop. [Connelly*B-MA]

1467 **SAUDI ARABIA** BSKSA, unID city, SEP 20 0048 - // 1512 with Koranic vocal; good. [Connelly*R-MA]

1485 **MELILLA // SPAIN** *SER* synchros, SEP 7 0030 - // 1584 with woman in studio and man on phone. [Connelly*rw-MA]

1494 **FRANCE (CORSIKA)** *France Bleu*, Bastia, SEP 7 0031 - woman with Bleu mention, pop music; poor. [Connelly*rw-MA]

1503 **SPAIN** *RNE Radio Nacional 5*, Piñeira and La Línea de Concepción, SEP 7 0030 - Spanish teletalk; good. [Connelly*rw-MA]

1512 **SAUDI ARABIA** BSKSA, Jeddah, SEP 7 0031 - female Arabic vocal; to fair peak through WVVZN slop. [Connelly*rw-MA]

+ SEP 19 2326 - Koran; good. [Connelly*R-MA]

1521 **SAUDI ARABIA** BSKSA, Duba, SEP 7 0031 - Arabic talk by two women; loud. [Connelly*rw-MA]

+ SEP 19 2240 - // 9555, 9870 with man in Arabic; huge signal, stronger than the shortwave parallels and completely demolishing 1520. [Connelly*R-MA]

1539 **UNITED ARAB EMIRATES** *Radio Aap Ki Duniya*, Al Dhabbaya, SEP 19 2315 - Radio Aap Ki Duniya ID's; fair. [Connelly*R-MA]

1548 **KUWAIT** *Radio Sawa*, Kabd - Kuwait City, SEP 7 0030 - US pop hit, Arabic talk; fair. [Connelly*rw-MA]

1550 **ALGERIA** *RASD* Clandestine, Rabouni, SEP 19 2339 - // 6300 with rustic string picking, Arabic talk; over WNTN. [Connelly*R-MA]

1557 **FRANCE** *France Info*, Fontbonne, SEP 7 0031 - man in French; emerging to good level out of WQEW slop. [Connelly*rw-MA]

1575 **UNITED ARAB EMIRATES** *Radio Farda*, Al Dhabiya, SEP 7 0030 - Mideast dance-club music, then talk by man & woman; over Spain. [Connelly*rw-MA]

1584 **CEUTA** *Radio Océ*, SEP 7 0025 - Radiolé ID. + SEP 7 0031 - Spanish rock; a bit over SER. [Connelly*rw-MA]

1584 **SPAIN** *SER* synchros, SEP 7 0030 - monotone teletalk, pips on half hour, newstalk by man & woman; momentarily over Ceuta. [Connelly*rw-MA]

1593 **KUWAIT** *VOA*, Kuwait City, SEP 19 2335 - slow US-accent English news by man; slightly atop others. [Connelly*R-MA]

1593 **unID** SEP 19 2333 - soul / dance music; over Kuwait briefly. Romania suspected. [Connelly*R-MA]

1602 **SPAIN** *Radio Vitoria*, Vitoria, SEP 7 0032 - Spanish pop-rock; way over SER. [Connelly*rw-MA]

*** PAN-AMERICAN DX ***

550 **VENEZUELA** *Mundial*, YVKE, Caracas, SEP 20 0008 - Spanish talk and several Mundial ID's; over WDEV Red Sox game. Upper sidebar needed to dissect from massive 549 signal. [Connelly*R-MA]

555 **ST. KITTS & NEVIS** *Radio ZIZ*, Basseterre, SEP 20 0010 - Caribbean man with live broadcast from an awards ceremony for people in the local government; to good peak. [Connelly*R-MA]

580 **PUERTO RICO** *WKAQ*, San Juan, SEP 20 0009 - Spanish talk about local Puerto Rican events and topics; to good peak with WTAG phased. [Connelly*R-MA]

640 **GUADELOUPE** *Radio Guadeloupe*, Pointe-a-Pitre, SEP 7 0011 - Caribbean-accented French talk by man; under CBN. [Connelly*rw-MA]

+ SEP 20 0010 - French under CBN. [Connelly*R-MA]

660 **VENEZUELA** *Ondas de los Medanos*, YVNA, Coro SEP 7 0010 - Ondas de los Medanos ID in Spanish talk; under WFAN. [Connelly*rw-MA]

+ SEP 20 0010 - this or YVQZ with Venezuela mentions under WFAN. [Connelly*R-MA]

670 **VENEZUELA** *Radio Rumbos*, YVLL, Caracas, SEP 7 0010 - end of tropical music song, time / ID "ocho diez minutos hora Rumbos, la emisora de Venezuela". [Connelly*rw-MA]

710 **CUBA** *Radio Rebelde* synchros, SEP 20 0000 - // 770 with Cuban political speech; mixed with WOR, best on lower sidebar to dodge 711/711.05 het cacophony. [Connelly*R-MA]

DX WORLDWIDE - II

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WESTERN HEMISPHERE

BRAZIL:

760 R. Nereu, Ramos (SC12) – new
1070 ZY1427 R. Bandeirantes de Cuiabá, Várzea Grande, MT (ex R. Industrial)
1200 ZYK520 R. Cultura, São Paulo, SP (SP121) – 100 kW daytime
1340 ZYK377 R. Jomal da Manhã, Ijuí (ex. 1370)
1360 ZYJ757 R. Belos Vales, Ibirama (ex. 1440)
1500 CP ERZ Comunicação Ltda, 95880-000 Estrela, RS
1540 CP R. Novo Milênio, 14160-000 Sertãozinho, SP
1550 ZYK590 R. Globo Santos, Guarujá (SP201) – ex. R. Guarujá Paulista
1550 CP R. FM Norte Pioneira, 86400-000 Jacarezinho, PR
1570 CP Rede Metropolitana de Rádio Ltda, Tailandia, PA
(Cláudio R. Moraes & Célio Romais via Arctic)

COLOMBIA: A clip sent in to me by my old friend Mats Andersson shows a few changes of slogans for Bogotá. J.C. Radio 1520 AM "pasión extrema" [ex-Vida AM 1520] with a format mentioned as "reageton, latino pop (up), anglo pop"/". Radio Manantial 1310 AM "me inspira" [ex-Colorin Coloradio] has a format of "instrumental cristiana contemporánea, balada cristiana contemporánea, [ditto] - en inglés, adoración". Vida AM 1130 "la radio que llena tu vida", carries "balada, adoración - alabanza y tropical". The station of 1520, also heard in the UK, has replied by email to Sweden, Norway and probably also to Finland. (Henrik Klemetz, mwc 30 Aug)

EL SALVADOR: 700 YS..R. Mi Gente, San Salvador. Txs: Volcán San Salvador, 12 kW and a repeater on the same frequency in San Miguel, also 12 kW. www.RadioCadenaMiGente.net.
1390 YS.. R. Getsemani, Col. La Oaz, La Unión, El Salvador. The station belongs to Cadena CRET. (Christer Brunström, ARC)

HAIÏTI: 930 Echo 2000, new 15. rue Alcides Charmanet, Jacmel

1170 Radio Tropicale Internationale, Jérémie, new station
1200 La Voix de la Paix, Evêché de Port-de-Paix, Rue L'Hôpital, Port-de-Paix, new station
1280 Radio Transcaribbean International, 28, Cité James, Coicou, Jean Rabel, new station
1460 Voix du Nord, new Rue 20-A-B, Cap-Haïtien
AM stations, not listed by CONATEL:
570 Vision 2000 960 R. Carillon 1280 R. Métropole
590 R. Ti Moun 980 R. Tet Ansanm 1300 R. Vision Nouvelle
610 R. L'Éternel est Grand 990 R. Cacique 1360 R. Liberté
630 R. de ODDS 1120 R. Magic 1380 R. Port-au-Prince
690 V des Travailleurs 1150 R. Caraïbes 1430 R. MBC
820 R. Tropicale 1170 R. Soleil 1470 R. Lakenyel
850 R. Pétionville 1210 R. Plus 1500 Hatti Flambeau Caraïbes
910 R. Kiskeya 1240 R. Antilles Int. 1560 La Voix de L'Espérance
Most of these stations are now broadcasting on FM only. (Christer Brunström, ARC)

MEXICO: Mexico wants U.S. radio regulators to re-think their decision to allow AMs to go IBOC at night and FMs to operate on the extended hybrid digital carriers. Our neighbors to the south say they are not happy the FCC authorized its recent "final" IBOC rules governing broadcast transmissions without first coordinating those through international treaties. In a letter to Chairman Martin filed in the IBOC docket, the Mexican Federal Telecommunications Commission, which regulates communications in Mexico, states that "until technical criteria" have been established between the agencies to allow "optimal and efficient development of analog and digital radio broadcasting along our common border," the commission should hold off on the two points made earlier.

Our sources tell me they believe Mexico filed the letter so it would have standing in any proceeding on IBOC and to have a way to adjudicate interference claims for the border area. Indeed, the group also refers to possible interference from U.S. IBOC stations to Mexican stations as a reason to have the coordination completed according to treaties first. The FCC handles coordination with the State Department, so perhaps the timing isn't all up to the FCC.

Interesting development. As we recently reported, Mexico has agreed in principle to allow border stations to use FM IBOC, and that decision needs to be finalized and printed in Mexico's version of the F-federal Register. (http://www.rwonline.com/tesile_report/ Aug. 08, 2007 via Bill Harms)

URUGUAY: Horacio Nigro writes: Most important changes are the new names added to SODRE stations, the inactivity of CW23 Radio Cultural, Salto, the closing of CX50 R. Independencia leaving

vacant the 1530 MW channel in our capital city and its FM's among them the one in Montevideo, "Concierto FM". (Arctic)

VENEZUELA: Unión Radio Noticias stations: 640 Puerto La Cruz, 870 Barquisimeto, 980 El Tigre, 1060 San Cristóbal, 1090 Caracas. Local night time, relay of R. Extenor de España, 1370 Valle de la Pascua, 1470 Carúpano (Christer Brunström, ARC)

ASIA AND PACIFIC

NEW ZEALAND: 1368 Napier-Hastings was silent, now Radio Live with Contemporary News/Information, 1521 Tauranga was silent, now Radio Sport. (David Ricquish 14 Aug)

PAKISTAN: The Director of Engineering for the Pakistan Broadcasting Corporation (PBC), Mukkaram Khan Niazi, says that PBC has decided to install 1000 kiloWatt mediumwave transmitters in Umerkot and Lahore to extend the range of its broadcasts to about 500 kilometres radius. The project, to cost Rs1,200 million (US\$20 million), was discussed in the Central Working Party and referred to the Executive Committee of the National Economic Council for final approval, he added. Mr Niazi said that the engineering wing of the PBC had manufactured some transmitters in its own factory. (Media Network webslog)

EUROPE, AFRICA, AND MIDDLE EAST

BELGIUM: It was announced that the VRT (Flemish Radio and Television) will keep its analogue AM transmitters on 540 (Radio 2), 927 (Radio 1), 1188 (Radio 2), and 1512 (RV) in 2008. This means that earlier plans to quickly replace the current transmitters and to turn the 1188 kHz into a DRM transmitter have been cancelled. The only plans that will go through is the cancellation of all analogue TV transmissions, probably in August 2008. (Herman Boel, mwc)

IRELAND: Looks like a clamp down on pirates operating cross border <http://www.belfasttelegraph.co.uk/news/local-national/article2834004.ece> but the regular MW stations on 846 and 981 are both good signals tonight. (Steve Whitt mwc 5 August)

LUXEMBOURG: Benny Brown writes: Are you aware of our new podcasts? You need to be, because it's another unique feature on our website (www.radioluxembourg.co.uk). By listening to the variety of our podcasts, you'll hear vintage broadcasts by some of the great names on Radio Luxembourg. Re-discover Timmy Mallett (with his green hair) as I talk with him! Snowball fights will never be the same! Dave Christian shares memories of The Great 208 during the '60s and '70s with our own Enda Caldwell. Relive the final night of broadcasting from the satellite, as Mike Hollis explains to me how that night was one of his life's worst-ever experiences. And there's more. Click "audio on demand" for all the podcasts on Radio Luxembourg. And keep coming back, as we add more material regularly. If you've got something you want to tell us, you can easily contact us via the website. We'd like to hear from you, and don't forget to tell us where you're listening. (Benny Brown, Radio Luxembourg via Media Network 8 August 2007)

NETHERLANDS: Just (1950 UTC) heard a test transmission from "Groot Nieuws Radio" on former Radio 10 Gold frequency 1008 kHz. Nonstop christian popmusic with occasional station identifications in Dutch. Good signal, no interference. (Alexander Schultz, HCDX 2 Sept)

GrootNieuws Radio, the Dutch religious broadcaster which has taken over the licence for 1008 kHz from Radio 10 Gold, has confirmed to DutchMedia that it has received official government permission to broadcast, and will start at 2200 UTC on Friday 31 August (midnight in the Netherlands). Radio 10 Gold will thus make its much-anticipated departure from mediumwave on Friday evening. GrootNieuws Radio will use a power of 200 kW, and will broadcast non-stop music until its full launch in December. The official website at <http://www.grootnieuwsradio.nl/> is still under construction. (DutchMedia via Media Network Blog)

PORTUGAL: 594 100 kW (nominal power) Muge site. Radio Renascença is silent for weeks due to maintenance works in its 265 m tower; the stn reported to me that normal operation is expected to be resumed by end Sept/early Oct. The works include replacement of many parts incl. the guywires and a new coat painting. This tower is easily located via GoogleEarth.

720 kHz 10 kW RDP Santa Maria/Meia Laguna, Faro, Algarve province Location of the just 59 m height tower is right to the east of Faro city, between road nº 125 and the shore. The modest height is compensated by means of a top fed capacitive circuit which I suppose consists of a few guywire-like wires sloping from the top downwards to the farthest guywires concrete anchors. I suspect this was a modification of the earlier (higher) tower because it's near the airport, westwards of Faro but haven't got any confirmation of this from the RDP yet. Like other RDP MW txs, the signal is received via satellite thus exhibiting a delay relative to the parallel VHF-FM network. This one is easily spotted in GoogleEarth.

783 kHz 100 kW Avanca site. It's been a whole year since the MCR-Media Capital Radio group failed finally start this new site thus replacing Canidelo (south of Porto) 10 kW. The stn of the group that is now on MW too is no more R.Nacional but RC(P)-Radio Club Portugues once again; its format music stn format was dropped months ago and it became a discussion/news stn. This Avanca tower

includes several wires hung from the top thus allowing the stn to adjust radiation to the azimuths of interest.

891 kHz 10 kW (formerly 2x10 kW) Vilamoura (also written Vila Moura) site. Radio Renascensa's tower is located westwards and vv. near Vilamoura's marina, near the shoreline. I estimate it's a 1/4 wavelength type, so 84 m. (Carlos Goncalves (5/8-2007) via mediumwave.info)

PRIDNESTROVIE: Radio PMR, the state broadcasting service of the unrecognized republic of Pridnestrovie, has expanded its broadcasts on mediumwave to 16 hours a day. The move comes as the country prepares to celebrate its 17th anniversary of independence, which was declared on 2 September 1990. Pridnestrovie is also known under names such as Transnistria and Transdniestier. For its international broadcasts, Radio PMR uses a powerful transmitting station inherited from the Soviet Union. Effective immediately, Radio PMR has expanded its broadcasting time from 1 to 16 hours on 549 kHz. The 150 kW transmitter is located in Grigoropol, and the schedule consists of local programmes mainly in Russian, a few short programmes during the day in Romanian and Ukrainian, and relays of the Russian radio station Mayak. Transmissions are on the air 0200-1800. For international listeners, Radio PMR broadcasts in English, German and French. It broadcasts live every day from 1600 UTC+ on 6235 with news and information about Pridnestrovie. The English-language segment lasts 20 minutes and starts at 1700. According to Antonina Voronkova, the head of Radio PMR, the station receives frequent feedback from listeners in Europe, Australia and even Japan. A plan for information exchanges is underway with foreign radio stations. Read more in the Tiraspol Times <http://www.tiraspoltimes.com/node/1200>. (Radio Nederland Media Network Weblog, 2 Sept)

SPAIN: these are the new regional/local times in the RNE R1 & R5TN networks from next Sep. 3rd 2007: M-F: 05.25-05.30 REG R1 //R5tn, 05.50-06.00 REG R1 //R5tn, 07.15-07.30 LOCAL R5tn, 11.06-12.00 REG R1, 17.45-18.00 REG R5tn, Sa-Su:11.30-12.00 REG R1 //R5tn. (Mauricio Molano, HCDX 31 Aug)

GEOMAGNETIC INDICES

Compiled by: **Phil Bytheway**

E-mail: phil_tekno@yahoo.com

Geomagnetic Summary July 5 2007 through October 2 2007
Tabulated from email status daily.

Date	Flux	A	K	Space Wx	Date	Flux	A	K	Space Wx
7/ 5	72	7	2	no storms	8/ 5	69	1	0	no storms
6	72	14	2	no storms	6	69	1	1	no storms
7	71	4	2	no storms	7	70	12	4	no storms
8	73	5	2	no storms	8	69	26	3	moderate
9	75	3	1	no storms	9	69	26	1	no storms
10	77	2	1	no storms	10	67	4	1	no storms
11	78	3	1	no storms	11	68	12	3	no storms
12	79	27	2	minor	12	68	12	2	no storms
13	77	6	1	no storms	13	68	12	1	no storms
14	78	4	1	no storms	14	68	6	1	no storms
15	76	16	4	no storms	15	69	2	1	no storms
16	75	10	1	no storms	16	68	10	2	no storms
17	73	9	0	x	17	67	7	1	no storms
18	72	3	1	no storms	18	68	4	1	no storms
19	79	2	1	no storms	19	68	4	0	no storms
20	68	2	1	no storms	20	68	1	2	no storms
21	67	13	2	no storms	21	69	2	1	no storms
22	66	16	3	minor	22	69	2	1	no storms
23	66	15	1	no storms	23	70	3	1	no storms
24	67	2	1	no storms	24	71	2	0	no storms
25	68	3	1	no storms	25	72	0	1	no storms
26	69	1	0	no storms	26	72	1	2	no storms
27	68	11	3	no storms	27	72	10	2	no storms
28	69	10	1	no storms	28	70	9	3	no storms
29	70	4	1	no storms	29	69	12	2	no storms
30	69	14	3	no storms	30	70	15	2	moderate
7/31	69	15	2	no storms	8/31	70	3	2	no storms
8/ 1	68	6	1	no storms	9/ 1	72	5	2	no storms
2	68	6	2	no storms	2	71	8	3	no storms
3	69	7	2	no storms	9/ 3	69	25	4	minor
8/ 4	70	3	1	no storms					

Date	Flux	A	K	Space Wx	Date	Flux	A	K	Space Wx
9/ 4	68	13	1	no storms	9/19	67	1	1	no storms
5	68	13	2	no storms	20	67	2	1	no storms
6	68	8	2	no storms	21	67	3	4	no storms
7	67	10	3	no storms	22	67	10	2	no storms
8	67	12	2	no storms	23	67	9	3	no storms
9	67	14	2	no storms	24	66	14	1	no storms
10	67	7	0	no storms	25	66	14	2	no storms
11	67	2	1	no storms	26	66	14	1	no storms
12	66	1	1	no storms	27	67	3	0	no storms
13	66	2	0	no storms	28	67	3	5	minor
14	66	1	3	x	29	67	13	2	minor
15	67	4	2	no storms	9/30	68	26	3	minor
16	68	4	2	no storms	10/ 1	65	13	2	no storms
17	67	3	1	no storms	10/ 2	68	8	1	no storms
9/18	67	2	0	no storms					

IRCA TIS/HAR List (Fall 2004)

Mike Hardester has completed the most up to date list yet. 56 pages of top-notch information on current TIS/HAR stations in the AM Band.

Prices: **IRCA members** - \$8.50. Overseas, add \$3.00. Non-IRCA members - add \$1.00.

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