

# DX MONITOR

THE OFFICIAL  
PUBLICATION  
OF THE



INTERNATIONAL  
RADIO CLUB  
OF AMERICA

DEVOTED EXCLUSIVELY TO BROADCAST BAND DX'ING

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### Coming Soon:

- Another Technical Column
- Mystique of the Three Letter Calls: Revised
- Broadcast Service Pioneers
- And More

## News from Headquarters

It's time once again to warm up the receiver, and begin another season of DX listening. Autumn is often the best time to DX, especially for transpacific and transatlantic stations. The summer static is gone, and the midwinter anomaly hasn't yet set in. You can get the ball rolling by perusing this and other recent DX Monitors for juicy DX tidbits. And once you hear them, report them to DX Monitor, the best BCB DX publication around.

### FCC MAINTAINS STATUS QUO

According to the Los Angeles Times, October 22, the FCC voted 4 to 0 to retain the geographic restriction that assigns "K" calls to radio & TV stations west of the Mississippi, and "W" calls to stations east of the river. The agency had proposed last February to eliminate the restriction, but the arguments against were apparently stronger than the arguments for the change. Thanks to Steve Mittman for this bit of information.

### SOME STATISTICS

Last season, IRCA members sent in a total of 1771 tips to the two DX Worldwide columns. 1044, or 59% appeared in DXWW-East, and 727, or 41%, appeared in DXWWW. Here's a summary of the reports by region: (TA-Transatlantic, PA-Pan American, T-Transpacific)

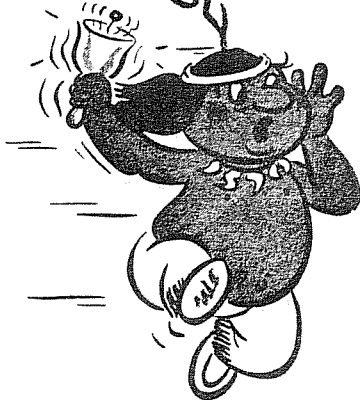
	TA	PA	T
DXWWE	535	514	5
DXWWW	32	106	589
Total %	32%	35%	33%

Thanks to Phil Bytheway for compiling the statistics. Conclusions are left as an exercise for the reader.

### WANTED: SHORT ARTICLES

We're in need of some short, typewritten articles for DX Monitor. They would be used as "filler" at the end of the regular columns. If you feel like writing a short article on a radio station, a receiver, your latest DXpedition, or something else related to BCB DX'ing, then type it up on 8 1/2 x 11 paper and send it in. We'll be happy to print it.

# SHUBB



**CHIEF OF THE AIRWAVES  
10,000 WATTS - DIAL 1570  
NANAIMO, BRITISH COLUMBIA**

# RELATIONSHIPS BETWEEN SOLAR ACTIVITY, THE EARTH'S MAGNETIC FIELD AND MEDIUM WAVE DXING

## PART ONE

Randy Seaver, Chula Vista, CA  
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### 1. INTRODUCTION

The relationship between "good" high-latitude or trans-polar medium wave DX openings and "quiet" Earth geomagnetic field activity has been postulated, debated and discussed over the last 25 years in the medium wave DX bulletins (e.g., Nelson (1969-77), Scrimgeour (1968) and others). DXers have faithfully listened to the WWV broadcasts of A Index and solar flux in hopes of finding that rare DX opportunity. The tables or plots of the A index have been published regularly in the DX bulletins. The promise of the "next sunspot minimum" has been held out each decade to DXers as a "golden age" of good high-latitude DX.

In order to help DXers understand the relationships of the sun, the geomagnetic field and high-latitude DX, this article will cover some of the basic geophysical phenomena, the records for the past 30 years, and a projection of what we can expect in the next year or ten.

This will not be a comprehensive study of the geophysical phenomena, but will only address the general characteristics. If more detail is desired by the reader, the listed references can be reviewed. Ratcliffe's Sun, Earth and Radio (1970) is an excellent introductory book. While Rishbeth and Garriott's Introduction to Ionospheric Physics (1969) provides a more detailed discussion of the ionospheric processes. Davies (1965), Ionospheric Radio Propagation, is an excellent technical book. A layman's description of solar phenomena, the Earth's magnetic field and basic ionospheric processes can be found in encyclopediae and other general physics reference works. The best available details of the effects of the auroral zone and geomagnetic activity on medium wave DX are found in the Nelson (1969-77) articles.

Most of the statements, ideas and figures in this article have come from the reference material.

### 2. SOLAR ACTIVITY

The sun produces a prodigious amount of energy over a wide range of wavelengths. The most important wavelengths in the radiation spectrum are those of hydrogen alpha, Lyman alpha, and helium. This energy provides the light and heat required for the Earth to sustain life. Some of the energy produced by the sun is in the form of an unsteady stream of charged particles, mostly protons and electrons, from the sun's corona along lines from the sun's magnetic field, called the "solar wind". This stream of particles varies with time, both short-term (minutes or hours) and long-term (year-by-year). The solar wind travels away from the sun at speeds of 300 to 1000 kilometers per second.

The sun's energy output is remarkably constant, varying by no more than a few tenths of one percent over several days. But variations in the energy output exist. Atmospheric disturbances on the sun, such as sunspots, result in additional energy release in the form of electro-magnetic waves at certain wavelengths. An intense local magnetic field on the sun is associated with sunspots, creating anomalies in the sun's magnetic field characteristics.

"Solar flares" are bursts of energy, usually at the hydrogen alpha wavelength but often including X-rays and cosmic rays, that are usually associated with sunspots, are short-lived, and vary in strength and frequency of occurrence. High energy particles can travel at nearly the speed of light, reaching the Earth in about eight minutes.

The sun has a rotation period of approximately 27 days, so variations in the sun's magnetic field, sunspot number, solar wind and energetic particles tend to repeat in 27 day cycles. These cycles are called Bartels cycles after a physicist who defined the period to track times of unsettled magnetic field conditions related to the solar rotation period.

Until the nineteenth century, the only measure of solar activity was the number of sunspots observed on the face of the sun by astronomers and solar physicists. Figure 1 shows the historical record of average monthly sunspot number from 1700 to the present. The data indicates that there is an approximate eleven year period between sunspot minima. The actual sunspot cycle is 22 years, when account is taken of the alternation of the magnetic polarity of the sun. There is also some evidence of an 90 year cycle in the maximum sunspot number. The increase from the minimum sunspot number to the maximum averages about 5 years. The maximum sunspot number varies from cycle-to-cycle, with the highest mean value ever recorded in the mid-1950's.

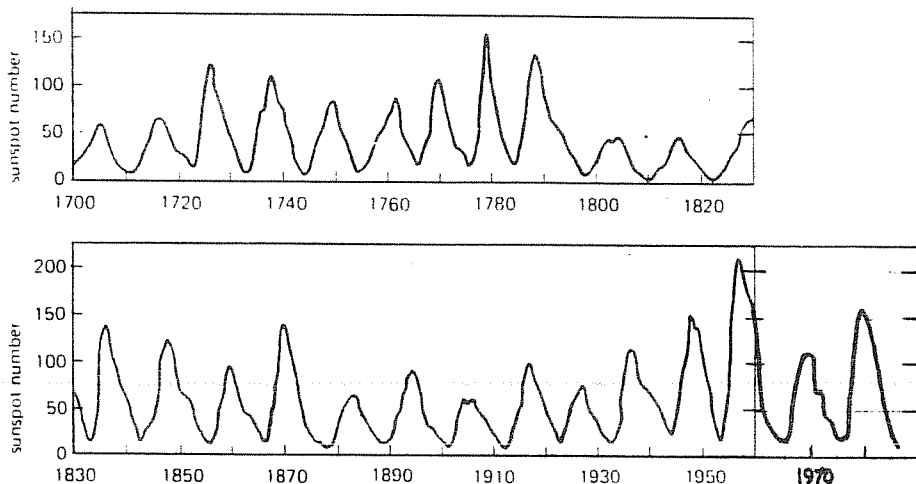


FIGURE 1. Sunspot record for 1700 to 1985.

The solar energy output is monitored in many ways by physicists all over the Earth. The National Oceanic and Atmospheric Administration, centered in Boulder, Colorado gathers information on a regular basis and produces a wealth of data. Measurements of the daily solar indices of relative sunspot number and 2800 Mhz solar flux, solar radio waves, solar wind, solar magnetic field, etc. are collected and published on a monthly and yearly basis by NOAA.

### 3. EARTH'S GEOMAGNETIC FIELD

The Earth is surrounded by a magnetic field, within which it behaves as if it were a ball of magnetized iron with north and south magnetic poles. More than 95% of the Earth's magnetic field originates from within the Earth's interior. The remainder comes from electric currents induced in the Earth's crust, and from electrical currents flowing in the upper atmosphere of the Earth resulting from ionization by solar radiation.

Figure 2 shows an idealized distribution of the Earth's magnetic field, showing the geomagnetic axis and equator displaced from the geographic axis and equator. Geomagnetic field lines flow from one pole to the other along lines of force very similar to a dipole with an Earth-centered axis. The magnetic intensity at the poles is twice that at the equator. The actual magnetic field of the Earth is somewhat different from that of a uniformly magnetized sphere because the distribution of magnetic elements over the Earth's surface is not uniform.

The geomagnetic North Pole was located at 78.5 degrees North latitude and 69.1 degrees West longitude in 1965, according to the *Encyclopedia Britannica*. The geomagnetic South Pole is approximately opposite the North Pole at 78.5 degrees South latitude and 111 degrees East longitude. The location of the geomagnetic poles varies somewhat over decades of time.

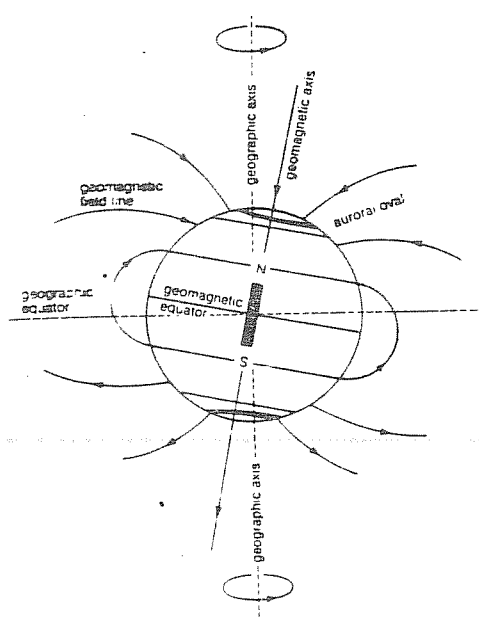


FIGURE 2. Earth's Idealized Magnetic Field.

The main magnetic field creates a cavity in interplanetary space called the magnetosphere in which the Earth's magnetic field dominates any field carried by the charged particles of the solar wind. The magnetosphere shape, shown in Figure 3, resembles a comet due to its interaction with the solar wind. It is compressed on the side of the Earth towards the sun and tail-like on the side away from the sun. Some particles from the solar wind or from solar radiation penetrate the magnetosphere and, with other charged particles are trapped by the magnetic field in a circular belt around the Earth known as the Van Allen belt.

The geomagnetic field lines are concentrated near the magnetic poles, but are displaced pole-ward on the side of the Earth towards the sun by the solar wind effects on the magnetosphere. The field lines are displaced toward the equator on the night side of the Earth.

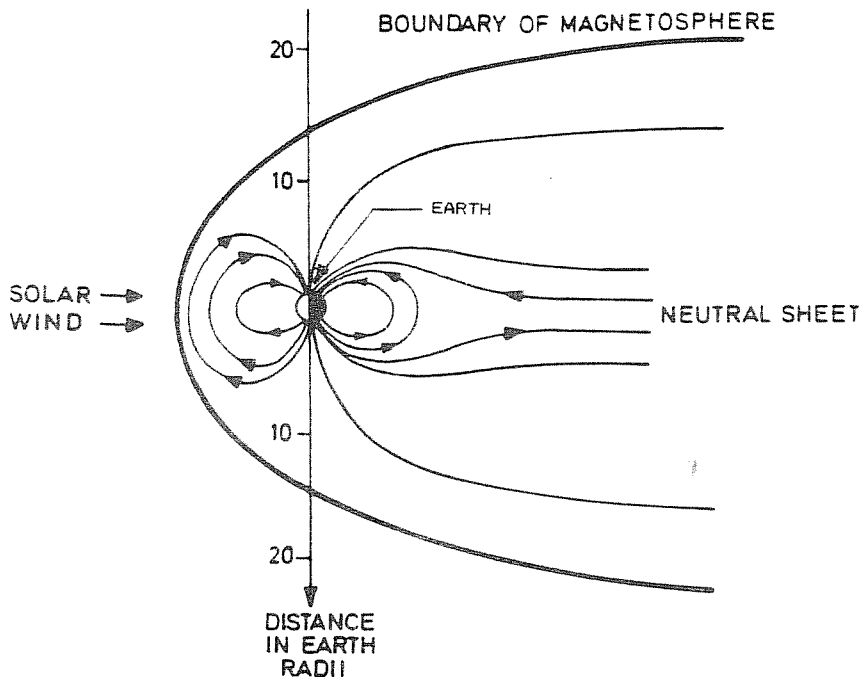


FIGURE 3. The Earth's Magnetosphere.

The Earth's ionosphere is composed of neutral molecules, ionized molecules and free electrons. The ionized molecules and electrons are caused by various forms of radiation, including solar radiation. The ionosphere has been defined in several regions, with the D-region between 50-80 kilometers altitude, the E-region between 80 and 120 kilometers, and the F-region above 120 kilometers. The D-region largely disappears at night, but the E-region and F-region retain a significant number of free electrons.

Radio wave propagation occurs by a series of ionospheric refractions from the E and/or F-regions (depending on wave frequency and incidence angle) and Earth surface reflections. Radio wave absorption occurs during the transit of the ionosphere by a wave, with most absorption occurring at altitudes below 90 kilometers. More absorption occurs at lower altitudes for a given electron density than at higher altitudes because the number of electron collisions per second decreases exponentially as altitude increases.

The charged particles carried by the solar wind and the higher energy particles caused by solar activity such as solar flares can precipitate into the Earth's upper atmosphere along the geomagnetic field lines, resulting in higher-than-normal electron densities. The auroral oval is a band within which the charged particles precipitate into the ionosphere. The auroral oval is 5 to 10 degrees wide, typically between 65 and 75 degrees geomagnetic latitude, and is roughly centered on the magnetic pole, as shown in Figure 4 for the Northern hemisphere.

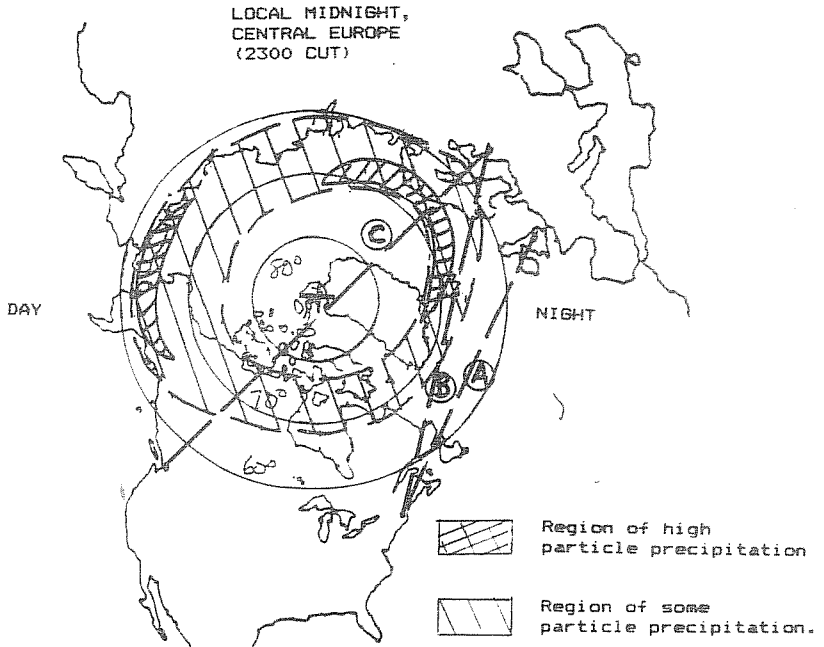


FIGURE 4. Northern Hemisphere Auroral Zone Location.

This precipitation can occur down to 50-60 kilometer altitudes, and causes high absorption to any radio wave that passes through the auroral oval above those altitudes. This is why the auroral ovals act as a curtain or shield for radio waves traversing the ovals, as shown in Figure 5. Radio waves can pass under the "curtain" but they suffer high absorption if they enter the "curtain" above 50-60 kilometers altitude.

When the Earth's geomagnetic field is quiet, the oval is located closer to the pole and the area of high precipitation is reduced. When the magnetic field is active, the auroral oval is located further from the pole and there are larger areas of high particle precipitation down to a lower altitude. There is some indication that the auroral oval width decreases and "shrinks" toward the geomagnetic pole at the start of a major geomagnetic disturbance, then "expands" as the disturbance progresses.

When a geomagnetic storm occurs, defined as a geomagnetic disturbance of large amplitude, an auroral display is often noted in parts of the auroral ovals. Precipitation of very high energy particles and solar X-rays or ultraviolet rays can cause other more severe events, such as polar cap absorption in which the precipitation occurs over the entire polar region. This can cause high radio wave absorption and refraction within the auroral oval.

When there is a major geomagnetic storm, the auroral ovals may be located in the mid-latitudes, and radio waves from the North, West and East may suffer high absorption because their path passes through the auroral "curtain". Radio waves from the South are unaffected by the auroral oval, unless the oval boundary is south of the receiver. This is the familiar "auroral" conditions experienced frequently in the Northern United States, where Caribbean and South American stations are dominant on most medium wave frequencies.

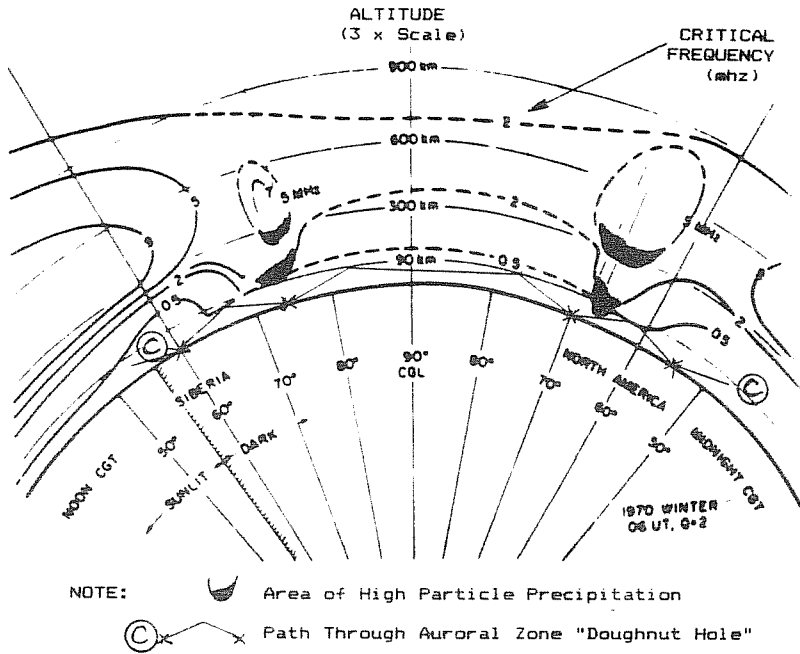


FIGURE 5. Typical Auroral Zone Cross-Section.

#### 4. GEOMAGNETIC FIELD INDICES

The Earth has an average magnetic field strength that varies from about 0.3 gauss at the equator to about 0.7 gauss at the poles. The variations in the magnetic field strength are measured by many observatories all over the Earth's surface. During the period of a quiet sun, the geomagnetic force varies during the day by about .00020 gauss at the equator and 0.00050 gauss at the poles (20 and 50 gammas, where a gamma is 0.00001 gauss). There are seasonal variations and sporadic disturbances caused by solar activity and lunar effects. Charged particles flowing in the magnetosphere and ionosphere generate electric currents, which cause variations in the magnetic field intensity.

Geomagnetic activity indices, such as the  $K$  index and the  $A$  index, are used to measure the variations in the magnetic field strength. The  $K$  index is a local index of the 3-hourly range in magnetic activity relative to an assumed quiet-day curve at the recording site. It consists of a single digit 0 through 9 for each 3-hourly interval. However, there are 28 potential values of  $K$  because each number can have a + or - associated with it. For instance a  $K$  value of 3+ is one-third of the difference between 3 and 4, while 4- is two-thirds of the difference. A planetary  $K$  index ( $K_p$ ), based on the  $K$ -index for 13 selected stations around the world, is available since 1932.

The local  $aa$  index is based on the local  $K$  index by:

$K$	=	0	1	2	3	4	5	6	7	8	9
$aa$	=	0	4	7	15	27	48	80	132	207	400

The  $aa$  value can be multiplied by two to get the geomagnetic intensity in terms of gamma. For example, a disturbance of 66 gammas is an  $aa = 33$  and a  $K$  of 4+.

Continued on Page 13.....

Add a little spice to your life...

Editor: Tim Kridel Deadline: Fridays  
Box 147  
Middle Island, NY 11953

Greetings! I hope DX has been better for everyone else than it has been for me. Between work and school, I managed to DX a bit, but not as much as I would like. On 1150 kHz, I heard the ID "WSGN" by a man, over a station carrying "Talknet." I have WSGN listed as being on 610 kHz in Birmingham, AL. It's possible that I heard the call sound like WSGN. I'd appreciate your help on this one, especially from you southern DXers.

With that, here's this week's dynamic duo. "Holy dangerous DX, Batman..."

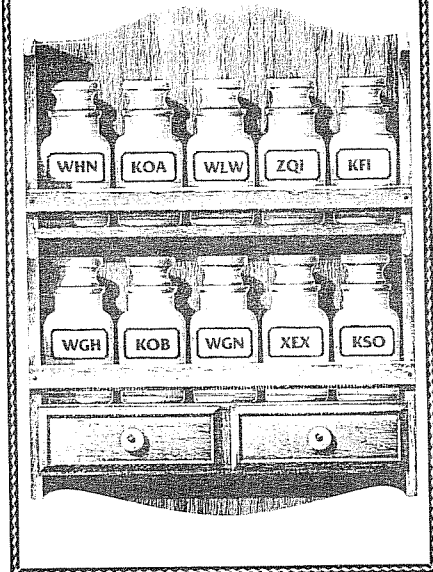
(GH-PA) Gary A. Heisey  
Box 310F RDL; Osterourg, PA; 16667  
Philco radio, 4' floppy loop

(TK-NY) Yer editor  
Bearcat DX-1000, longwires, Palomar loop

690 KGGF KS, Coffeyville 10-7 0659 Poor, alone, briefly w/ WLW slop, Cuban to south, no Canadian. Spot for farm product, man said "It's 6:00 at KGGF Coffeyville. 49° outside," into local mx. Channel then became snowy. (GH-PA)

690 WTIx LA, New Orleans 10-8 0700 Fading w/ oldies, Chubby Checker song, into

# EASTERN DX ROUNDUP



local nx w/ Mutual nx jingle. KGGF appeared w/ farm report. Nice but brief action on 690 recently. (GH-PA)

730 WPMC NC, Goldsboro 10-1 1945 Fair, then in mess, w/ contest promo, "WPMC" ID by man. Soft relig mx (WHLO format). (GH-PA)

740 KTRH TX, Houston 10-8 2120 Fair w/ mod fade in Canadian null. "Hello, you're on KTRH," talk program about football. Caller had ticket stub from first Oilers game. #862-8622. Much wanted, no KRMG. (GH-PA)

740 WSEBQ VA 10-4 1915 Good, alone in Canadian null, w/ slogan "The Tri-State Tradition, radio 740 WSEBQ- Harrison, Middlesboro, Tazewell." C&W mx. Maybe another new stn. (GH-PA) (Possibly, but if they're new, how could they already be a tradition? Has anyone else heard this station? -TK)

940 WESA PA, Charleroi 10-8 1250 Many "New 98.3 Class FM" IDs, asking for listener input about their new stn. Partial IDs at 10 mins before the top of hour only. "WESA FM and AM, Charleroi." Never ments AM frequency. Oldies and newies mixed format, but good selection. (GH-PA)

930 WAMX WV, Huntington 10-7 2015 Fair o/ clutter w/ "The new 93.7 W-Nix" IDs. Oldies newies format. "W-Nix is WAMX," location at top of hour, but faded. Was WGNT according to Geov Parrish. (GH-PA) (Sorry about the order, folks. -TK)

1080 KRLD TX, Dallas 10-8 2202 Great sig, mod fading, o/ weak WTIC and strong SS to south. Twins vs. Tigers baseball, w/ ID "News radio 1080, KRLD- Dallas-Ft. Worth." (GH-PA)

1160 WYNS PA, Lehighton 10-12 2037 Poor o/ pop stn w/ "Ode to Billy Joe," ad for Security Savings in Westlake, Juice Newton song, ID "WWWWWYNS." (TK-NY)

1490 WUSS NJ, Atlantic City 10-18 1243 Good to fair w/ talk show "Community Round Table" ID "WUSS Atlantic City," into "True Life Ministries at 1301. (TK-NY)

1510 WPUT NY, Brewster 10-18 1228 Good w/ 1500 slop. Kenny Rogers song, CNN nx at 1230, wx by woman, ID "Voice of Putnam County," into more mx. (TK-NY)

The above column had so many typos that it was almost to the point of being written completely on "White-Out." Thanks to Gary Heisey for some great DX, without whom this week's column would not have been possible. Robert Ritchey, where are you? 73s to all, and win one for the Gipper...









# WESTERN DX ROUNDUP

2301 PACIFIC AVE., ABERDEEN WA 98520

DEADLINES: Tuesdays

REPORTERS FOR THIS ISSUE:

- (NAB) Mike Bittner-27215 Sunnyredge Road-Palos Verdes, CA 90274  
Surplus ARC-5 rcvr, SM-2 loop
- (NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA 98520  
FRG-7, Radio West loop
- (GK) Guy Kudlemeyer-1320 City View #1-Eugene, OR 97402
- (PM) Pat Martin-P.O. Box 843-Seaside, OR 97138  
SP-600, 1500' E. Beverage, 200' NW-SW wire
- (JSM) Steve McDonald-3319 Glasgow St.-Port Coquitlam, BC V3E 4K8  
Sony ICF-2010, Radio West loop
- (SMM) Steve Mittman-2248 West 37th Street-San Pedro, CA 90732  
Realistic TRF, 3' wedge
- (DN) Doug Nyholm-2071 Cedar St.-San Carlos, CA 94070  
FRG-7000, ICF-6500W, Radio West loop
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118  
GE Superadio, GE long-range portable, SM-2

\*\*\*\*\*

OF SPECIAL INTEREST:

- 1040 CKXY BC, Vancouver 10/4 0250 ex-CIOF now with lots of legal IDs & new CHR format as of Sept. 1 per phone call to station. (JSM)  
+Ex-CIOF new call noted 1835 on 10/11, "The big switch is on to Kicks, CKXY." 2nd Canadian call change this week. (PM-OR)  
+10/16 2059 news & weather "on 10-40 Kicks," SID "Kicks Radio, CKXY." Contemp. hits format. Ex-CIOF. (NH-WA)
- 1140 KRSR NV, North Las Vegas 10/12 0957 fading briefly over KCMJ with KRAK nulled. Song by Motley Crue, ID "KRSR, North Las Vegas." Call change, ex-KMJJ. Per friend in Vegas, they are 24 hours NSP with "acid rock" format. (RW-CA)  
+Ex-KMJJ heard Fr 10/16 0237-0304 with new heavy metal format. IDs exclusively as "The Crusher." All IDs, promos, & other voice anncts. were "mechanical" sounding, as if from a computer or robot! Only exception was for the legal ID 0259... "regular" voice gave quick "AM stereo---KRSR, North Las Vegas," into mechanical voice (more slowly) added: "The Crusher." (SMM-CA)
- CISS AB, Calgary 10/11 heard with CISS calls and "Kiss" slogans. Ex-CKXL. (PM-OR)  
+10/16 2001 "90 Second Newsbrief" by woman, weather, ad, 2003 1/2 "You're listening to C-I-S-S, the new Kiss AM" into contemp. music. Ex-CKXL. (NH-WA)

\*\*\*\*\*

- 540 \*KSHO\* CA, Hesperia apparently preparing to gofulltime. Noted on before local midnight MM 10/12 0145-0205 with 1/2-sec. delay simulcast of their FM KKGQ-105.1. No IDs, other than the FM ID'ing as "KKGQ." Only "legal" ID at 0200 was for the FM: "America's jazz station--KKGQ, Los Angeles. It's 11:00 on the west coast." (I assume KSHO ID'ed at s/on & s/off.) Signal fairly strong, but continuously faded slightly up & down. (SMM-CA)
- 560 ?CHTK? BC, Prince Rupert I was tuning around at sunset 9/30 2220 & noted KSFO off for whatever reason! Looping N-S & noted a fair KPQ when almost immediately the annrc said they would be going off the air for about 30 minutes for transmitter adj. Then they were off too. Now heard weakly a talk program on Canadian ethnic affairs & BC provincial Indian tribes. Sounded like the annrc. took a phone call during the program. NRC log says CHTK // to CJOR but I couldn't check at this hour. I doubt CKNL and I've

CHTK been told CHTK has been heard in Calif. KSFO back on before ID but had signal for about 10 minutes. Also noted way behind a MOR music station. Sent tentative report. I must be living right. (DN-CA) (Both KSFO & KPQ off. What luck!!!--NH)

600 KHTE CA, Redding fair 9/26 0105 with rock & "K-Hit" IDs. (DN-CA)

630 KIDD CA, Monterey 9/21 ID heard under KOH at 0808 with KFI-640 nulled. "KIDD Newsroom" annct. at 0810. (MAB-CA) (Became KKBC 9/22!--NH)

KHOW CO, Denver 9/21 ad for Minolta copiers 0813, Denver weather report, ad for Denver Post at 0814. "This Day in History" bit at 0816, more Denver weather 0821. "Kay-How Sports" annct 0836, into smooth rock music at 0837. (MAB-CA)

KIDO ID, Boise 9/21 TC of "17 before 7 o'clock on KIDO" 0843. "You're listening to America in the morning, it's now 10 minutes to 7 o'clock" at 0850, into traffic report ending in clear ID. Weather report ment. 58<sup>o</sup> in Boise. (MAB-CA)

660 KTNN AZ, Window Rock 9/28 native American chanting at 0738 ending abruptly at 0741 for annct. "The only station you'll ever need, country KTNN." SID into C&W song. This chanting heard several mornings here always abruptly broken into & ended by local ad or station ID at the same time (0741). (MAB-CA)

690 KRCC OR, Prineville 9/28 0046 in very briefly with ad for Advantage Mobile Homes in central Oregon. Lots of interference. (DN-CA)

XETRA BCN, Tijuana interesting new promo "69 Extra Gold--the world's first AM stereo station!" Also, they have adopted the old "93 KHJ" jingle! (SMM-CA)

700 KPAM UT, North Salt Lake City 9/28 smooth orchestral music & vocal ballads to 0700 ID. News by local man annor. with low, quiet voice. Weather report ment. "Fair & chilly, lows in the 30's along the Wasatch." Listen to AM 700 Stereo annct. 0704, into mall music. (MAB-CA)

KMJY WA, Newport 9/31 was listening to freq. SSS 2130 & heard weak C&W way behind KGRV. Nothing noted but music in & out, then at 2158 contrary to Murphys Law sig. faded up with KMJY ID, and "Time 7pm in the inland northwest" and into Satellite News. Soon back in the mess behind KGRV. I don't know where they put their signal but it's not in this direction. (DN-CA) (9/31??--NH)

730 KIZN ID, Boise 10/10 weak but steady C&W music looping NE in noise & slop with medium pitch het (JOC-729?). ID by woman 0730 ment. 93 FM and 73 AM and brief weather report. Wall-to-wall C&W up to another ID 0745. (MAB-CA)

?KBOY? OR, Medford 10/10 rock music looping NW. "95.7 KBOY" ID barely discernable under very loud medium pitch het (JOC-729?) at 0750. (MAB-CA)

890 KDXU UT, St. George Su 10/11 0859:40 legal ID "This is KDXU & KEZE, St. George." Into Baptist program. Same legal ID 0959:40, into "Powerline" show. FM call not heard during RS the following evening. (SMM-CA)

900 KNUI HI, Kahului 10/6 ID 0832 followed by weather ment. temperatures in 70's & TC of 0530. Into rock music. (MAB-CA)

910 KFYY AZ, Phoenix 10/13 "You're listening to Larry King on 9-10 Talk-radio, KFYY Phoenix" annct at 0058, into ads for Folgers Coffee and Motel 6. Talk about American education, or lack of it. Swamped at times by XEAO. (MAB-CA)

940 ?KDEO? HI, Waipahu 10/11 thought I heard the ID by woman DJ during break in AdCon music at 0915 under nulled KPRE. (MAB-CA)

960 KLKL OR, Klamath Falls 9/25 0105 with Mutual News then The Best of Larry King. Poor behind KABL. (DN-CA)

970 ?KNUU? NV, Paradise 10/13 "9-70 K?? Las Vegas" annct 0806 o/u Spanish station. (MAB-CA)

990 KRKT OR, Albany 9/28 0949 with 3 straight ads then gone, tight null on freq. (DN-CA)

1010 KCHJ CA, Delano 10/13 very slow talking woman annor reading personal notices in unID language (possibly Portuguese) with many interspersed EE words. ID in EE at 0829 followed by more notices, then pop music and C&W music in same unID language. EE ad for "McDonalds at 907 Cecil Ave. in Delano" 0840. Strong during ad but then faded under Spanish station with mariachi music. (MAB)

1010 (KIOQ) CA, Folsom per verie they will be off the air for tech. adj. They are getting the towers re-phased & loaded. Will hope to be back on the air in late Nov. at which time they will run a Proof of Performance. They are supposed to finally be using 50kw daytime as they have been using 1/4 power. Checked & noted off 10/16. (DN-CA)

- 1060 KUKQ AZ, Tempe 10/15 crossover music under null'd KNX-1070 slop. Annot 0350 ment. "Best in country music" & "Kay-Q." "Your new brand of country, Kay-Q, KUKQ, Q-Country" annot at 0401 by male DJ with country accent. (MAB-CA)
- 1140 KVLI CA, Lake Isabella 10/12 0934 only 2nd time heard here, good under KRAK with ID "KVL1, Lake Isabella, 1140 on your AM dial" into CA Agribusiness program, ID after program "This is 1140 AM, KVL1, Lake Isabella," lost under KCMJ. (RW-CA)
- KRAK CA, Sacramento 9/27 0303 "Capital City Radio" news & weather in- to C&W. Lots of QRM. New. (JSM-BC)
- 1230 KPAK CA, Redding 9/26 0113 heard with post game show. Shasta High Wolves defeated Paradise Bobcats, fair. (DN-CA)
- 1240 KFLY OR, Corvallis 10/4 0040 with local ad & plug for OSU Football, soon lost. (DN-CA) (Doug, you had this listed on 1230. You did mean 1240 didn't you??--NH)
- 1290 \*KHSL\* CA, Chico 10/12 0750 noted with ID "This is KHSL, Chico, CA, on the air for test programming only," OC. (RW-CA)
- 1300 KROP CA, Brawley 10/15 "This is KROP for the Imperial Valley, Brawley, El Centro, and Calexico" ID at 0500 and into AP Net. news. Very weak signal under unli'd KWKW but floated up very strong during the ID & news. Good luck or possibly power change? (MAB-CA)
- 1330 KUPL OR, Portland 10/11 as of this date they are still country music. The report in 10/10 WDMR that they are now classical music is in error. (PM-QR)
- 1370 KPCO CA, Quincy 10/4 0226 very good over 30 minutes with "greatest hits of all time." (JSM-BC)
- KVTL MT, Butte finally caught through KEEN & KPCO 9/28 1005 with MT weather, ID, then into music. (DN-CA)
- 1400 ?KNND? OR, Cottage Grove 10/4 at SSS at 2120 was sure after an Elton John song the ID was KNND. However, Robert Wien's last info on them was that they were all news format. Have they changed, anyone know? (DN-CA)
- 1450 KKKX OR, Eugene re WDXR Vol. 25 #3, it's KKKX, not KXXO. (GK-OR)
- 1490 CBPN BC, Horseshoe Bay 10/3 1430 good in downtown Vancouver about 10 miles away; TIS for Squamish Highway road conditions; no ID; phoned DOC for call of license. (JSM-BC)
- 1500 KVSN WA, Tumwater per verie, first day of operation was 8/16/87. (PM)
- 1570 KTGE CA, Salinas per verie, they have an approved license for 5kw & new towers are currently under construction to be completed this year. (DN-CA)

UNIDS

- 1270 9/29 0010 with relig. program, looping N-S. Any ideas? (DN-CA)
- 1470 10/12 0424 UNID TT over KXOA, looping N-S. (RW-CA)

I'll keep the comments short, as there are 10 little fingers straining to hit the typewriter keys, hi. The same little fingers broke the on/off switch to our FRG-7 last week! ♡

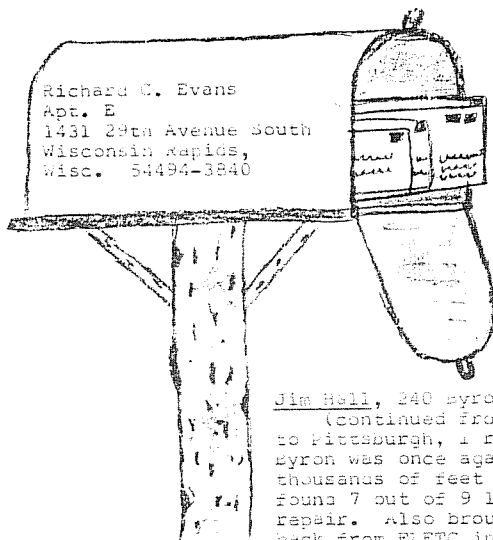
Continued from page 7

The A index for a given station is calculated by finding the mean of the eight aa index values for the given day.

The planetary Kp index for each three-hour time period is calculated from the K index from 13 observatories around the world. The planetary ap index is based on the Kp index. The planetary Ap index is the mean of the eight ap index values.

Since the K and A indices are based on the variations in magnetic field intensity, some of which are caused by solar activity, we would expect a strong relationship between the indices and sunspot number or solar flare activity.

Part Two, a statistical analysis of recent DX seasons, will appear in next weeks DX Monitor.



Richard C. Evans  
Apt. E  
1431 29th Avenue South  
Wisconsin Rapids,  
Wisc. 54494-3840

## EASTERN DX FORUM

reports from members living east of the Mississippi River

Deadlines: Fridays

This column typed: 10/18/87

Jim Hall, 240 Byron Road, Pittsburgh, Penn. 15237

(continued from last week) ...Upon my return

to Pittsburgh, I realized that the antenna farm at Byron was once again in shambles. After inspecting thousands of feet of wire in the wooded areas, I found 7 out of 9 longwire/Bev/mini-Bev's in need of repair. Also brought nearly 400' of 14AWG strand back from FLETC in GA which was added to one of the LA mini-Bev's. Now there's a fine 940' (approx.) Bev. for Latins, and it is terminated with resistor and grounded in a creek and performs quite well. Others were also repaired with new resistors added (does anyone but there use carbon type resistors?), and to top off the xint performance of these I added coaxial lead-ins to the 12 terminal ant. switchboard of my own design, of which I am presently in use. Boy, did I notice a difference with the coax lead-ins - interaction and reradiation between wires is much less. Also, as noted in a forum a few years back, termination w/resistor even on longwires can sure make a difference, as evidenced again with a 300-foot TA wire. I believe Pat Martin once commented about good results with terminated longwires as well. With the 14AWG wire at about 70 deg. and terminated/gnued with copper groundrod, compared to a 14AWG of equal length/height but unterminated, TA's show better signals on the grounded antenna. So I stress again that if you have aimed your longwires for certain bearings, experiment with adding resistors and groundrods. I generally use a copper rod of about 5-feet, although I believe former IRCA president Richard Wood in Hawaii once quoted 10-feet as a standard, but it's probably difficult to pound into the ground with a sledgehammer or mallet. On a related topic, does anyone have information on using a  $\frac{1}{4}$  wavelength length of wire placed after the resistor on a terminated antenna, used in place of a groundrod? I heard of this from Neil Razaros when he was actively experimenting with such in Ogunquit, Maine. Onto other subjects before closing: Ric Heald said he'd be looking into the problem about the light print in current DXN's - I hope this problem can be alleviated as it's tough to read the fine print in some of the columns. Complements out to John Johnson for a fine-looking CDXR, and Tim Hall for the useful Verification Signers column (looking veri-good, Tim, hi). Gary Reisey, now about reporting those Cubans to DMW-E (9/12 EDXR) - need reporters for the column, hi. Craig Healy, I was in North Attleboro, MA the weekend of 9-19/20 - tried phoning from "The King Philip" in Wrentham, but kept getting cut off, then finally made it through to the operator in Pawtucket but didn't have the requested \$1.35 in coins. (Try an AT&T cred card, Jim--rce) I'll be in the area again around the beginning of Nov. If you still have your Drake R7A for sale I may be interested. Finally, it's good to see a lot of new names appearing in the pages of the DXN - let us hope that these new contributors keep supporting IRCA and the DXN columns. We all look forward hearing from YOU in our columns. 73's and good DV.

Rick Evans, 1431-E 29th Ave South, Wisconsin Rapids, Wisc. 54494-3840

A correction to my Forum of 10/10. Make it only 24 states and 3 prov. heard here so far. I'd like to claim 31 states but then I'd have to keep quiet about the next 10 I hear, hi. Two more varies in, to double in total in a week. A picture card from WVAL-610, and a v1 from WNDZ-750, signed by Roger Dee, who is better known as Roger Winsor, a longtime IRCA member and former IRCA member. Now up to 163 heard here with 4 varies. 73.



their AM tower. Yes, but at 12 miles?

BEST is advertising the GE Superadio II for \$10 less than I paid for the original Superadio on sale. Is II version any better, or is it like the "new" (now discontinued) Radio Shack TR- which turned out to be not as good as the original, or are they trying to be competitive with Chicken Shack's version of the Superadio?

I've thought about buying a multi-band radio to listen to the various police agencies, but after hearing the cops' two-ways crackle all evening five nights a week, I really don't want to know who we're having as guests next, hi

Guess that's a wrap for this week. In closing, we were told a couple months ago that metro Sacramento has the dirtiest air north of Los Angeles. Now comes the good news, ranking 7th in state population, Sacramento also ranks 2nd in the homicide rate. Swell. I keep telling myself I left Eureka for a better career, hi. Best of DX and see y'all in 7. 73 de Rth. .

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# DX WORLDWIDE EAST

Jim Hall, 240 Byron Rd., Pittsburgh, PA 15237-4015

■ Some very interesting LA's have been showing up throughout the band here lately with some evenings in mid-October producing rather auroral reception conditions. Of interest are the possible Central Americans from Guatemala, quite a rare country in the northeast. The frequencies of 580 and 650 have been especially productive. Also a few interesting XE's which I need help on (i.e. 1110, 1050, 580). Some TA's have also been showing, but so far the season has yet to produce very good propagation from Europe -- it seems they are trying, and I've noticed them gradually getting better. Only TA of special interest is an UNID on 981, in @2314 10/20 quite strong at times with male opera and lang. by lady (tentatively SC). Any help on this one? I assume it to be Algeria, although at the time 891 was only pr-fr. With that, here are some of the more interesting LA's logged in October:

o o o o o o o o o o o o o o o

## P A N - A M E R I C A N A D X

- 550 VENEZUELA, Caracas YVKE 2333 10/18 : Fr w/"Mundial" ID, mixing w/Cuban. '87 WRTH Tists slogan as R. Okey. (Hall-PIT unless noted)
- 555 NICARAGUA, Chinandega HTC555 0539 10/17 : TC, ref's to Contras & Nicaraguan/CA affairs, in SS. Best ever / very readable.
- 560 JAMAICA, Kingston 0244 10/17 : Briefly on top w/Carib. reggae //700.
- 570 VENEZUELA, Villa de Cura YVLX 0022 10/14 : Rumbos fr //9660/670 w/SS nx/doorbells.
- 580 VENEZUELA, Maracaibo YVMJ 0530 10/18 : Fr/gd w/Cuban hetting notched. Proud "LV de la Fe" ID by man, later same ID voiced a/Ven. pop mx by woman. Regular now.
- JAMAICA, Galina 0405 10/18 : Mixing w/several LA's w/West Indian-accented EE m.
- t MEXICO, presume XEAV 0247 10/17 : In turbulent SSLA mess w/UNID ID's incl "Mexico". Anyone (John Wilkins et al) have the common ID for this one?
- t GUATEMALA, Guatemala City TGY eve 10/18 : V. frequent ments "Progreso", ref. to El Salvador, very possibly a "R. Progreso" ID later (non-Cuban) by man. 580 has opened up nicely for LA's lately, but still unsure of TGY here.
- UNID, morning 10/18 : An SSLA (perhaps XE) o/u the YV w/Sunday morning SS hymns.
- 580.2 CUBA, unk loc : Rebelde up a bit hetting 580 profusely on a good night. Commonly heard here //Rebelde net. Sounds weaker since the low-band Cuban rearrangement (570/590/610/620). Power estimate is 5kw. FCC Cuban Standard BC List says 2000 watts.
- 590 CUBA, unk loc 0749 10/12 : There is a flea-powered Radio Rebelde xmtx operating on 590 //net -- occ audible under the always-dominant Cuban R. Reloj outlet.
- 640 CUBA, Las Mercedes 0126 10/13 : 1p Cuban Rebelde xmtx audible weakly u/the highly powered Cuban R. Progreso on freq. Steve Mittman - take note of 2 Cubans here on 640.
- 650 HONDURAS, El Progreso HRVW 0352 10/17 : HRVW w/"LV de Centro America" ID by m. Pr/fr in mix w/CA pops.
- \*PANAMA, Panama City HOS22 0400 10/18 : Poor - IDed while reviewing tape -- "R. Mia" slogan by man, mixing w/Honduras/weakened WSM/other SSLA's (YV and/or D.R.). Did not seem to s/off @0400 per '87 WRTH, but channel became a mess after 0400 and was hard to tell if they were still in there.
- CUBA, Media Luna 0123 10/13 : 1p Rebelde's in mess of LA's u/WSM. //5025 et al.
- t DOMINICAN REPUBLIC, Santo Domingo HIAT 0359 10/18 : While reviewing tape a "Universal" (ID) was heard out of SS merengue mx. Unneeded though.
- 680 CUBA, Pinar del Rio/Ciego de Avila 0122 10/13 : Rebelde net stn, fr strength. Pwr level still sounds 1p although WRTH says 30 @ 10 kW for 2 Rebelde outlets here.
- 700 JAMAICA, Montego Bay 0245 10/17 : //560 w/Carib-EE m ancr ment Cat Stephens.
- CUBA, unk loc 0115 10/13 : Reloj pgm occ surfacing in mess.
- 830 VENEZUELA, San Antonio de los Altos YVLT 0100 10/12 : "R. Sensacion" ID and 2 men alternating several Venezuelan network slogan names out of apparant sports (soccer).
- 850 JAMAICA, Old Harbour 0246 10/17 : Briefly in //700/560 in extreme mess.
- 860 CUBA, CMBM 0715 10/18 : R. Metropolitana w/R. Progreso pgm //Progreso net, for early morning filler. Not an uncommon practice of Cubans in early morning hours. Around this time Cubans often boom in here - this morning Cuban Progreso net stn's were audible //640/660/690/740/810/820/870/880/900/920. All freq's were in, believe it or not, from poor on some to xint on others. Often the entire Cuban Rebelde and Reloj nets are also audible at one given time!
- 910 CUBA, Camaguey CMFA 0815 10/18 : Fr //1380/1370/1360 (all 3 in gd/fr/pr) w/"Radio Cadena Agramonte" pgms of rural Cuban mx. Mixing on freq. with Cuban minuteman.
- CUBA, unk loc (Matanzas?) 0716 10/18 : 1p Reloj stn here w/standard fare. All //s in at the time: //950/940/930/920/1270/1180a/960/700/760/790, at various levels.

- 920 CUBA, Matanzas/Union de Reyes CMDD morn 10/18 : Radio Reioj mixing w/CMNG at v. good level. New.
- CUBA, Pilon/Baracoa CMNG morn 10/18 : R. Progreso // barely in there //net w/Cuban Mor mx. Been after this outlet for years. Mixing w/above Reioj.
- 925 t GUATEMALA, San Pedro Carcha TGJL (or unID) 0200-0235 10/19 : Presume this is R. Imperial reported by Geo. Haktiel awhile back. Poor through 0229, when an IS was played about 7 or 8 times, into apparent SS items by male. No ID noted as stn was fadey and disappeared almost completely by about 0237. Will keep after this one. Anyone have them on tape, and can anyone with SW background ID the musical IS (possibly played on marimba). +after reviewing tape I'm almost certain it's a marimba.
- 940 MEXICO, Mexico City XEQ 0549 10/19 : LOUD in OC of CBM w/"La Q" ID by w. SS ranch mx.
- 960 CUBA, Guantanamo/Cienfuegos CMFD/CMMD 0723 10/18 : V. pr but audible at times just over mess //Reioj net w/time standards/nx. Not often hrd here.
- 1000 CUBA, unID svce 0725 10/18 : u/MLUP-Chicago; basic Cuban mx and m/w in SS.
- 1050 MEXICO, o XEG 0534 10/19 : Occ v. loud/dominant w/ranchera de Mexico, "La Ranchera de Monterrey" ID by m @0531.
- t MEXICO, Mexicali XED 0500 10/19 : W/"buenos noches" greetings. "International" ment, and pos "La Gran D". If them, it's my best Mexican catch as Mexicali is out by CA. Fmt seemed to be a mx pgm with offerings from other LA countries (SS). May have been XEG, but there were definately 2 on freq. taking turns. If XEG uses some type of "La Gran" ID I'd say it was not XEG. Any help here?
- 1060 MEXICO, Mexico City XEP 0300a 10/19 : Several "Radio Educacion" ID's by m/w. In o/u Cuban.
- CUBA, Baracoa CMMQ eve 10/17 : //1070 pgm. Typical Cuban, Trinchera Antiimperialista /LV de la COA -- Carib./Cuban pop vocals, some of which I recognized from hearing on R. Rebelde last year.
- 1070 CUBA, Guantanamo CMMP eve 10/17+ : Utempo Cuban pops //1060. Deep hetting from possible Colombian notched.
- 1070.1 t COLOMBIA, (Barranquilla) 0050 10/17 : Presume the vf Emis. Atlanticos w/ref's to Col/Barranquilla, pr/fr.
- 1080 VENEZUELA, Barcelona YVQJ 0015 10/17 : Poor/mixing with Cuban/Haiti/KRLD/other(s). "R. Barcelona" ID noted while reviewing tape.
- \*HAITI, Port-au-Prince 4VRD 0013 10/17 : Fr to very good levels w/Carib. vocal mx in FF, occ well on top for long periods. TC's and talk by m ancr in FF (not FF patois/Creole) and ID "Radio Cacique" (pgm was apparently rebroadcast from Port-au-Prince's 4VCPS 990/1000). Also 0017 10/19 : W/"R. Nationale Haiti" by FF m into FF-Caribbean pops, mixing w/Cuban/KRLD. No WTIC in semi-AU cx.
- 1090 unID, 0124 10/17 : Caught m ancr in PP or possibly FF. Is an LA so will keep trying- hoping for something exotic. Anyone get Brazil here?
- 1090.7 unID, LA carrier from high 1090 stn, often hrd hetting out 1090. i.e. 0419 10/17.
- 1100 COLOMBIA, unID svce 0440 12/18 : Fr w/"CARACOL" net ID 0459.
- 1110 t MEXICO, presume Mex. City 0307 10/16 : Heard same newspaper ad as hrd on Mexico-730 years ago (R. Festival). "Ay Nacional! Ay Nacional!" by m. u/WBT and not much else hrd. Is this a major Mexican newspaper (Rick Evans/John Wilkins etc)? Is it exclusive to Mexico only?
- 1130 t COLOMBIA, Neiva 0143 10/16 : V. tentatively picked out // to 4945 SW here on 1130. 2 men in SS w/ref's to Colombia. No ID, no positive //.
- unID, 0157 10/16 : Mixing heavily with others w/back-to-back SS tearjerkers. Cuban Tikely.
- 1140 CUBA, o CMBW eve 10/17: Noted //1080/1120, pr/fr w/WRVA. Cuban vocal mx & "RCH" IDs.
- 1150 CUBA, Entronque Buycito CMNQ 0216 10/17 : M ancr w/Cuban rumba, "R. Bayamo" ID later by w. Audio seems over-mod. here.
- 1163 unID, carrier @0128 10/16 } SAME?
- 1163.2 unID, carrier @0234 10/17 }
- 1170 HAITI, Port-au-Prince 4VRS 0127 10/19 : French patois/Creole church pgm ending 0127. TC and 2 "R. Soleil" ID's in FF by girl, into rlg's pgm w/db/chime opening. Under semi-local WVA.
- 1180 DOMINICAN REPUBLIC, Santo Domingo HIBE 0125 10/14 : Poor-v. gd w/"R. Mil" ID by deep-voiced man, "R. Mil" SID by girls, Dominican vocalist promo, into festive SS vocal Also 0005 10/15+ w/"Esta es H-I-B-E" by m, fol/by SID into Dominican pops. Mixing w/ R. Marti-FL.
- \*\*\*GUATEMALA, Guatemala City TGT eve 10/14 : Subdued SS m & w w/nx coverage of CA/US affairs, several lite IS-like signatures (one on trumpet, fol/by one on marimba), and lots of short vocal-less casual/EZL mx interludes. Mixing w/HIBE/CMOD/attenuated WHAM/ possibly other LA and often succumbed to rumble and Reioj net/xmtr noise. Het partial notched. Several ments Guat. Only log of R. Sonoroma in the last few years I could find was by Fritz Hellberg in 12/3/83 DXWW-W. Do you have this taped, Fritz, or can you ID IS? Almost surely not the US's R. Marti pgm to Cuba. No ID copied.
- VENEZUELA, unk svce 0130 10/14 : Presume a YV w/ments Venezuela @0130 ID break from sports. Usual common YV (YVOR) was not //5040 SW, though, and the other YV (YVNU) seen unlikely. Also possible ments of a couple Colombian cities, so may have been an HJ, although several other YV's on BCB had sports (soccer) this eve, possibly same event.
- 1180a CUBA, Neuva Gerona CMOD 0051 10/14 : Reioj outlet on about 1179.9 hetting out 1180. Mixing w/other SSLA's. Noted on 1179.5 0627 10/16.

- 1190 CUBA, Yaguajay 0624 10/16 : R. Sancti Spiritus fr-gd//1210 w/Cubano mx,
- 1203.9 unID, carrier 0312 10/16, pr/fr.
- 1210 CUBA, o R. Sancti Spiritus //1190 pgm, fr. Same time/date.
- 1220.7 unID, possible LA 0313 10/16 .
- 1290 CUBA, Rancho Veloz CME0 0235 10/17 : Poor in domestic mess, //840, Cuban MoR.
- 1489.6 unID, carrier @0159 10/19+. May be a domestic stn.
- 1550 COLOMBIA, Bogota HJZ1 0800 10/12 : "R. Fantasia" (:SS fan-tah-see!-ah) ID's by man and woman, tropical mx. Other SSLA under. "R. Fantasia....radio en Bogota....15-50 khz....en Colombia..." & unID SID by girls.
- 1560 CUBA, Ciego de Avila CMIR 0525+ 10/12 : To v. gd peaks w/QXR off, o/unID EE talker w/smooth instrumental/jazz (no vocal mx). Occ breaks for short anmts/facts and TC's by SS w. Around 0552 another SSLA broke through for a few min, sd/1k a Venezuelan (2 listed - either 24-hr?). 0600 the famous "...victorio libre en America....Radio Enciclopedia desde..." (:SS en-the-clo-pay!-de-ah). One of the more enjoyable Cuban networks to listen to. Over 0700 hr a descending 3-note marker on piano (or some type of keyboard) was hrd.
- 1570 TURKS & CAICOS ISLANDS, South Caicos BW1 0421 10/12 : Turks & Caicos Beacon Unlimited LOUD/on top easily w/!...Reaching out, touching you, this is the mighty 15-70, Atlantic Beacon! by man, into church svce.
- 1580 t COLOMBIA, Barranquilla HJQZ 0600 10/16 : V. poor w/!...15-80 kHz, LV 7 ???, en Colombia! in mess, into Colombian T40/pop. Presume LV de las Estrellas as often hrd.
- ANTIGUA, St. Johns VOA relay 0045 10/13 w/Voice of America's "Caribbean Report!", f.
- 1610 ANGUILLA, 0023 10/12 : Caribbean Beacon good w/m ancr filling in pgmng gap with TC, and greeting good evening to listeners. Record: "Amazing Grace", later same song on a zylophone, then "Up Front" w/"Old Time Religion" asking each listener to send in \$1. Time to change frequency, hi. (Demmitt-PA) (Send in \$1 as rp for a verie...e!)

o o o o o o o o o o o o o o o

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# DX Worldwide - West



**PAT MARTIN**  
**P.O. BOX 843**  
**SEASIDE, OR 97138**

DEADLINES: 11/3, 11/10, 11/17

Only a short column this week. Not too much to report, but Rich Toebe saved the day. So on with reports:

TRANS-PACIFIC DX ROUNDUP

- 159 U.S.S.R., Blagoveshchensk-1322 10/5 classical mx, v. weak but clear. My 3rd LWr, others 236 and 245 KHZ (though not today) (RT-CA)
- 594 JAPAN, Tokyo-JOAK 1341 10/5 JJ talk by male, super signal new from this location, prev. hrd only w/beverage (RT-CA)
- 693 JAPAN, Tokyo-JOAB 1329 10/5 JJ talk by female, clear no slop from 690 in "sync" mode (RT-CA)
- 973 JAPAN, Kumamoto-JOGB 1332 10/5 JJ talk by female //693 weak yet clear, no 870 ORN (RT-CA)
- 582 UNID, 1402 10/5 audio there, but too muddy to understand (RT-CA)
- 1053 KOREA, 1347 10/8 jammer noted, traces of audio, must be KK twins New from here (RT-CA)
- 1566 SOUTH KOREA, Cheju HLAZ 1345 10/5 talk in oriental language, poor signal (RT-CA)

THANKS TO THIS REPORTER:

- RT-CA RICH TOEBE-2972 Martin Avenue-Pleasanton, Ca. 94566  
Sony ICF-2010

## THE INTERNATIONAL RADIO CLUB OF AMERICA (IRCA)

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1630 kHz). "DX Monitor", the official publication of the IRCA, is published 34 times a year, weekly from October to March, twice in September and April, and monthly from May to August. "DX Monitor" contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



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