

FRENDX



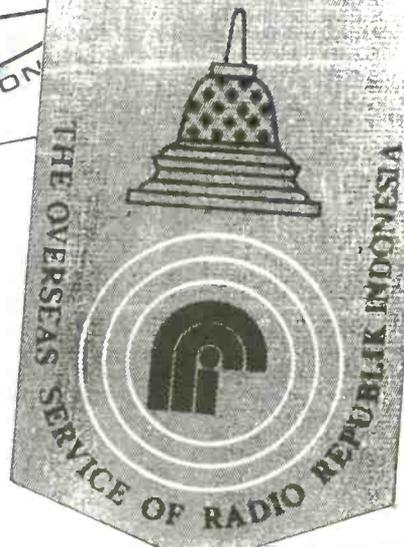
Kepada

RADIO REPUBLIK INDONESIA

SUARA INDONESIA

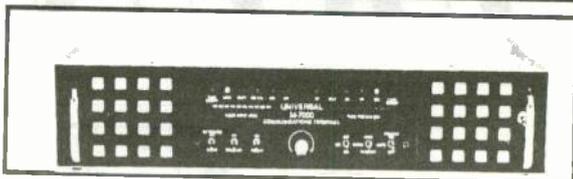


VOICE OF INDONESIA



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Universal M-7000



Never before has such monitoring sophistication been available to the private listener. The M-7000 retains all of the earlier M-6000 series features including more modes, more speeds, more shifts, more sophisticated features to let you listen to the exciting world of radioteletype and FAX on shortwave and satellite. This is the only device you can buy to intercept ARQ-Moore (Time Division Multiplex), ARQ-B and ARQ-E3 used by diplomatic, military and aeronautical concerns worldwide. The M-7000 has calibrated variable Baudot speeds with calibrated variable shifts. The M-7000 has three user programmable sel-cals. You punch in one, two or three words (or codes) which will automatically activate your printer when they are received. Think of the potential for this feature! The M-7000 can be completely remote controlled by a terminal or computer permitting full automation. The M-7000 itself is very automated, utilizing a microprocessor to control shift tune and selection. Press a key and the M-7000 tunes the mark, finds the space, and displays the approximate shift. Tuning couldn't be simpler! The M-7000 offers a user selectable initialization format and ten multi-function memories to store your most frequently used operating parameters. Other features include: on-screen tuning indication, printer & video squelch, High-Low Tone select, 1050 and 1800 Baud ASCII, 85 and 1200 Hz shifts, six ASCII shifts, parity select on ASCII, automatic gain control (three settings). Instructive LEDs for: Mark, Space, Power, Buffer, Morse Lock, Autostart, IPI, Squelch, Idle, Sel-Cal, Data, Tuning Error and Data Error (helpful in determining correct speed, protocol and sync.). Other refinements you have come to expect from Info-Tech include: automatic threshold control, unshift-on-space, built-in diagnostics, Bit Inversion (Baudot), speed readout, status line (reverse video), scope output. Both serial and parallel printer outputs are provided! Serial output is provided in eight baud rates and the 8th bit is selectable. When you are ready for the ultimate in RTTY, you are ready for the Info-Tech M-7000. Nothing else even comes close! Physical: 16.4"W x 3.5"H x 12.75"D. Black metal cabinet. 9 Lbs. (12 Lbs. ship). 115 or 230 VAC, 50 or 60 Hz. Manufactured in the U.S.A. by Digital Electronic Systems. It requires a composite video monitor (and compatible printer for FAX - See page 40). Supplied with complete owner's manual (with schematic). A second "Getting Started" manual is also supplied for new RTTY listeners.

- Standard Baudot Shifts - 170/425/850
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- AGC Automatic Gain Control determined by unit or selectable +/- 15%.
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- RTTY ASCII - High Speed Non-Standard: 1050 and 1800 baud.
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- Sitor B - (PECTOR, Amior B) Collective and Selective
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- Russian Third Shift Cyrillic Actual Cyrillic Characters Displayed (To Video Port only)
- Literal Mode This feature uses special symbols to represent normally non-printing characters. (To Video Port only)
- Databit Mode This feature converts the incoming datastream into zeros and ones.

PRICING

Configuration	List	Discount	Shipping	Stock
M-7000 Basic Unit	\$1129.00	\$999.00	\$10.00	#2436
M-7000 With Real Time Clock Option	\$1189.00	\$1059.00	\$10.00	#0534
M-7000 With Video FAX Option	\$1199.00	\$1089.00	\$10.00	#2458
M-7000 With Video FAX & Real Time Options	\$1269.00	\$1129.00	\$10.00	#1842

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Optional Extend. Warranty To:	365 days
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Universal offers a comprehensive shortwave catalog covering all types of shortwave monitoring equipment including receivers, antennas, RTTY and FAX equipment plus books and accessories. Send \$1 (refundable).

DX'ers Forum

Dedicated to Furthering
the Art, Science and
Enjoyment of DX'ing

Conducted by Rowland Archer, 5524 Hawthorne Park, Raleigh, NC 27613 January, 1989

A circuitously routed message informed me that our intrepid Asian explorers are busy shoveling sand from their path in the Taklimakan Desert, and with any luck we will have another installment of *DX'ing the Great Silk Road* in next month's Forum!

Thanks to Jerry Berg, Bob Hill, and "Kap" Kapinos for a great evening of DX talk and dining. If you haven't gotten together with other DX'ers in your area, why not give it a try? It's nice to talk to people whose eyes don't glaze over when you tell them about that great Peruvian opening or the new Indonesian you heard yesterday! Universal Shortwave publishes a low-cost DX'ers Directory which should help you find some hobbyists in your area.

We lead off this month with an excellent article by Kevin Atkins, explaining the art of tuning in ECSSB mode. Kevin is due thanks for the article and congratulations on his recent selection as an editor for *Fine Tuning*. Kevin's article is a lucid and pragmatic explanation of an invaluable DX'ing technique that every DX'er should have in their toolkit. ECSSB takes a little getting used to, but I find it so superior to DX'ing in AM mode that it's virtually all I use.

Better DX'ing with ECSSB

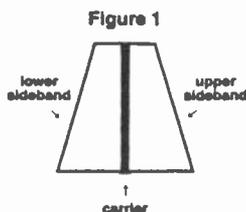
A Guide to Exalted Carrier Single Sideband Tuning

by Kevin Atkins

An unfortunate consequence of language is the ability it gives us to put intimidating names on simple things. Exalted carrier single sideband reception (ECSSB) is such a thing. But while it is simple, its benefits can be enormous; sometimes it is the only way to log a tough catch. What it is and what it does are readily grasped; then, with practice, it can be a most valuable DX technique.

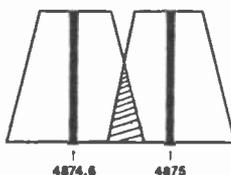
WHAT IT IS

An AM signal consists of three parts—a carrier and two sidebands, termed "upper" and "lower" with respect to their position relative to the carrier (fig. 1). All of the signal's coded audio information, or *modulation*, is carried in the two sidebands. The AM detector in your receiver requires the presence of all three to *demodulate* the signal, or convert it back into audio which you can understand. The SSB



detector needs only one sideband, and you may select either upper or lower. Using the SSB detector to demodulate a single chosen sideband of an AM signal is called *exalted carrier single sideband reception*.

Figure 2

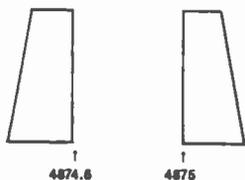


WHAT IT DOES

Superior Selectivity. Shortwave signals in general, and tropical band DX signals in particular, are jammed together tighter than lovers on Valentine's Day. Often they are so close that two or three can be heard simultaneously in AM mode (Fig. 2).

The shaded area in figure 2 represents the interference two adjacent signals cause each other in the form of audio splatter and the always annoying, sometimes deafening heterodyne whistle. Detected

Figure 3



in AM mode, the overlap between the upper sideband of 4874.6 and the lower sideband of 4875 renders both signals useless.

Note that the upper side of 4875 and the lower side of 4874.6 are unaffected. With ECSSB, you can take advantage of this fact and separate these signals. Tune the lower sideband of 4874.6 and log RRI Sorong, then up to 4875 for the Voice of Jinling (Fig. 3).

The choice is not always this clear-cut. Often your catch-of-the-day will be jammed between two signals so that neither sideband is interference-free. You must then evaluate the signal in both USB and LSB to determine the best choice. One sideband, for example, might suffer from audio splatter, while the other might have a loud heterodyne. If you can't escape the splatter, perhaps you can notch out the het.

Many signals that would have gone unnoticed under the noise in AM can be snatched out of the mud in ECSSB

With some receiver designs (notably the unmodified Icom R70), SSB is the only choice for accessing a tight bandwidth. But even receivers with filtering independent of mode will exhibit improved ultimate selectivity with ECSSB as opposed to AM. While it is possible to use bandwidths in the 2kHz range in AM, the resulting audio is muffled and muddy; the loss of intelligibility is quite a price to pay for removing the interference. But a 2kHz filter is more than wide enough to provide good audio in ECSSB (remember you're only detecting half of the modulated signal), while you still enjoy the benefits of a tight filter.

Improved Signal-to-Noise Ratio. One of the first things you'll notice about ECSSB detection is an apparent drop in signal strength compared to AM. Your S-meter and your ear are measuring the total amount of signal received. Most of that signal is the unmodulated carrier; the remainder is the sum of the two sidebands. When you remove the carrier and one sideband, you remove a great deal of what your S-meter was measuring. But don't panic; listen again! While there may be less signal, the *signal-to-noise ratio* is greatly improved in ECSSB. As the

name implies, this term indicates the signal strength relative to the strength of the background noise. If you give up a portion of the signal but also improve the signal-to-noise ratio, the amount of *useable* signal is increased. Many signals that would have gone unnoticed under the noise in AM can be snatched out of the mud in ECSSB. You can turn up the volume to fool your ears, and close your eyes so you don't have to look at the S-meter.

Generally Enhanced Intelligibility. Aside from improved selectivity and signal-to-noise ratio, other factors enhance the intelligibility of ECSSB-tuned signals to varying degrees:

- Certain types of fading are lessened. The improvement can be dramatic on some signals.
- Manmade noise is attenuated to some degree. Even power line noise is reduced, though by no means eliminated.
- There is generally less propagational distortion, making speech more readable.

Reading Heterodynes. Yes, hets can be your friends. The het produced when the SSB detector's carrier approaches a transmitted carrier can be used as bandscanning tool. The presence of a het indicates that *something* is there. Since most of the transmitted signal is carrier, you can detect it even when you can't detect the modulation. You might not get any audio today, but tomorrow or next week you might find threshold-level audio and log a heretofore unheard station.

RECEIVER CONSIDERATIONS

A thorough understanding of how your receiver works in SSB will be invaluable as you practice ECSSB. A review of your manual and any reviews you can find is in order.

Practically all tabletop communications receivers now being manufactured are equipped with product detectors which will allow ECSSB. Many older receivers and most portables are not; they use a BFO in conjunction with the AM detector instead. Of those with product detectors, some are more suited to ECSSB than others. The most important factors in this regard are *stability* (the ability to stay on the tuned frequency without drifting) and *tuning rate*. Stability is usually not a problem with modern transistorized receivers; tube-type receivers require considerable "warmup" before they become stable. Tuning rate (the rate at which the frequency is changed relative to the movement of the tuning dial) varies widely. Tube type and earlier solid-state receivers used analog tuning; that is, the frequency was continuously variable. The trend now is toward digital tuning, accomplished in fixed steps.

ECSSB requires very precise tuning. Since an analog receiver does not tune in steps, you can tune the precise frequency you desire; however, if the tuning is too critical (that is, if the tuning dial is

geared such that very small movements cause comparatively large shifts in frequency), it may be difficult to tune in ECSSB. Such was the case with the Yaesu FRG7700—the main dial was very critical, and the only way to fine-tune was to store the desired frequency in the optional memory unit, which was equipped with vernier tuning.

Digitally tuned receivers often have variable tuning rates, thus allowing fine-tuning of an ECSSB signal or rapid movement from one end of a band to another. For ECSSB, a tuning rate of 10Hz is optimum; anything larger will not allow you to tune a signal for maximum intelligibility. The Icom R70 offers steps of 1kHz, 100 Hz, and 10Hz, as well as an analog RIT, or receiver incremental tuning. Many receivers have a large minimum step on the main tuning dial, but incorporate an RIT circuit that works in analog fashion or in 10Hz digital steps. A frequency shift done with the RIT may or may not be displayed on the readout.

HOW TO DO IT

Go to the top end of your favorite band, put your receiver in LSB, and tune slowly down the band. If your receiver is digital, use 100Hz or 50Hz steps. As you tune across stations, you will hear a heterodyne caused by the carrier of the stations beating against the carrier imposed on them by your receiver's product detector. The closer you get to each station, the lower the frequency (and thus the audio pitch) of the het. If your receiver is analog, the tone will be continuously variable. If it's digital, you will hear the pitch change in definite steps, producing the sound commonly called "baggiping." Notice the weak carriers on which you can detect little or no audio. These represent all the DX you wouldn't even notice if you were in AM mode. You might even notice a second, weaker heterodyne only a few hertz off of a stronger signal. In AM, you would probably hear only the stronger signal; thanks to reading the

DXING VIETNAM

by Gerry Bishop

[A little while ago, Mitch Sams reported in Fine Tuning that there were indeed still shortwave stations transmitting from the NASWA country of "South Vietnam." This was exciting news for many DX'ers who still need to hear and verify that radio country. Gerry Bishop checks in here with some further information about the Vietnamese shortwave scene. Thanks for supporting the Forum, Gerry! It was nice talking with you on the phone too OM, and I look forward to seeing more of your writing in future FRENDX's. -Ed.]

DXing the stations of Vietnam is often rewarded with a new station in the logbook. But for the NASWA country counter, there seems to be a problem of "which Vietnam?" Only one exists now, but from the mid 1950s until 1975 two nations shared the east coast of the Indochinese peninsula. This list will clear up some of the confusion about where the current broadcasters are located in that country today.

The source for this information is *Broadcasting Stations of Vietnam* published in 1985 by DX Front Line of Japan. This excellent tome not only looks at the current state of Vietnamese broadcasting, but is also a comprehensive history of radio in that nation.

Stations of Vietnam

North Vietnam	South Vietnam
Lai Chau Broadcasting	Binh Tri Thien (Hue)
Son La	Nghia Binh
Hoang Lien Son	Gia Lai-Kon Tum
Ha Tuyen	Lam Dong
Cao Bang	
Bac Thai	
Hanoi	

Other provinces have sporadic shortwave broadcast activity; these are generally the most reliable.

QSLs are difficult, perhaps impossible for some stations. I've tried English and French, IRCs, stamps, cash, and gifts. I encourage those who have been successful in verifying the Vietnamese regionals to share their secrets.

* * *

[Lately I've seen a few regional veries that were obtained by writing to the Voice of Vietnam in Hanoi, similar to verifying the Chinese regionals via Radio Beijing or the Indian regionals via AIR in Delhi. For many this is "just not the same" as a verie straight from the regional, but most feel it's better than no verie at all! --Ed.]

Azad Kashmir Radio: A History

by Sarath Weerakoon

[Several months back, in a DXers Forum article on identifying transmitter sites, we looked at Azad Kashmir Radio as a case study. Sarath Weerakoon, a well-known DX'er who resides in Sri Lanka, saw the original article and kindly took the time to write the following history of Azad Kashmir Radio for FRENDX. Thanks Sarath! - Ed.]

My friend Victor Goonetilleke and myself have been very curious about the exact locations of Azad Kashmir Radio transmitters. Both of us and a Pakistani DXer - Taher Aftab - have done extensive investigations into it.

Trarkhel is the former provisional capitol of Azad (meaning "Free") Kashmir. Geographically, it is situated very close to Islamabad, just across the border into Azad Kashmir.

Azad Kashmir Radio (AKR) first came on the air in 1948, as a clandestine station operating from the back of an army truck, in those dreadful days. Of course, the situation is quite different now, as Pakistan considers Azad Kashmir an integral part of Pakistan. Gradually, the mobile propaganda unit became a full-fledged station by using the facilities of Pakistan Broadcasting Corporation (PBC). At present, AKR - Trarkhel is using PBC's transmitter No. API-8 (10 KW) broadcasting on the frequencies of 4980, 7265, and 4790 kHz. So, there are no transmitters or studios at Trarkhel but AKR continues to give this fictitious location in their identification, for obvious reasons (just imagine, if the ID is Azad Kashmir Radio Islamabad!)

Now to the transmitter locations. Islamabad was founded in 1961 and became the capitol in 1967. The Federal district of Islamabad includes the capitol Islamabad and the adjoining area that is to undergo urban development. This Federal district is a small area. Geographically this area falls within the Rawalpindi district (which comes under the Punjab province). Although the district of Islamabad is geographically within the Rawalpindi district, it is a separate administrative region directly under the Federal government, and not under the Punjab government. Perhaps a rough analogy would be Washington, DC (174 km²), situated between Maryland and Virginia.

Rawalpindi was the Pakistani capitol from 1959 until 1967. It is situated about 11 km southwest of Islamabad.

Except for the FM transmitters, all the other transmitters of Radio Pakistan - Islamabad are located on a site close to National Highway No. 1, which falls within Rawalpindi district but outside the Federal district of Islamabad. The FM transmitters are at Muree - also outside the Federal district but within the Rawalpindi district.

The transmitters used for the external service are also located several km from Islamabad but well within greater Rawalpindi.

Therefore, if anybody is trying to log a transmitter site at Islamabad, please forget it. Islamabad simply has no transmitters. All except, two 10 kw transmitters at Rawalpindi are linked to studios of Islamabad and thus announced as 'Radio Pakistan - Islamabad.'

I guess there is no controversy over the seldom heard AKR - Muzafarabad on 3660v kHz and 792 kHz. Muzafarabad is the capitol of Azad Kashmir with a population of nearly 65,000. My pen-friend in the Azad Kashmir capitol confirms the existence of a radio station. He can see the studios, antennas and tall masts on top of a hill.

AKR Muzafarabad is heard quite regularly on MW freq of 792 kHz, but SW channel of 3660v kHz has been erratic. I last noted it in Sri Lanka around mid-March this year. If anyone wants to log Azad Kashmir, then he should log either 3660 kHz or 792 kHz.

Azad Kashmir is part of the territory acquired by Pakistan in the 1948 war with India. Pakistan does not consider Azad Kashmir as a province of Pakistan because of the disputed nature of the state of Jammu and Kashmir. Pakistan claims that the status of Jammu and Kashmir should be determined by a United Nations sponsored plebiscite. India maintains that the state of Jammu and Kashmir is an integral part of the Indian Union and refuses to acknowledge the need for international mediation.

hets, you know that there's a second transmitter on the frequency.

Now choose a strong, interference-free station playing music with announcements between songs, preferably in a language you understand. Using your slowest tuning rate, approach the signal and listen carefully to the changes in pitch as you tune. As you near the carrier frequency, the pitch of the heterodyne will get lower, eventually dropping below the range of the human ear. The point at which this occurs will vary depending on the sensitivity of the biological audio equipment you were issued, the strength of the signal, and the level of interference; for me it's usually 40-60Hz from the carrier. When the het disappears, you're close—but not quite there. Precise tuning requires that the carrier of the SSB detector be imposed, or *exalted* (betcha wondered where that word came in), directly over the carrier of the station. If you have an ear for music, you'll note that the instruments and vocals still sound out of tune. If you think *all* instruments sound out-of-tune, don't despair—switch rapidly back and forth between LSB and AM, concentrating on one particular instrument or voice, either singing or speaking, and note the difference in pitch and timbre. The object is to continue tuning down until the instruments and voices harmonize, or until the pitch in LSB matches that in AM.

When the het disappears -- you're close

Practice both techniques; it's easy to tell when familiar US pop music sounds right, but it's a different story with a sitar or a gamelan orchestra. In such cases your best bet may be matching the pitch of the announcer's voice. The mode-switching technique is also useful when tuning signals so weak that you can't sense any continuity in the melody of the music being played. It's also helpful in such cases to know the lower frequency limit of your audio spectrum (as discovered in the last paragraph); if you know that under average conditions you can't hear a tone below 60Hz, you can rough-tune a weak signal by counting 60Hz after the het becomes inaudible. Of course, you can only do this if your receiver lets you determine the frequency to the nearest 10Hz. The NRD525 and Kenwood's R5000 do this; the Icoms have analog tick marks on the tuning dial ring that are fairly accurate (though they equal 20Hz, not 10Hz as the manual claims).

It may be helpful to switch off your receiver's AGC circuit while tuning, since the circuit's attack can disrupt the continuity of the audio. Another useful technique is to "roll off" the bass notes; rumbling bass can make precise tuning difficult. This can be done with the receiver's tone controls, with any external audio filtering devices you have (such as a graphic equalizer or an audio filter), or, if you have passband tuning, by shifting the passband away from the side you're tuning (i.e. toward the upper side of a lower sideband signal). Once satisfied with the

tuning, you can readjust for maximum voice intelligibility.

When you're comfortable finding the "sweet spot" of a strong signal, you're ready for the final test. Find a weak tropical band signal skulking on a split channel between a couple of powerhouses. Try both LSB and USB; remember that hets are easier to defeat than audio splatter, and that music splatter is much worse than speech splatter. After assessing your options, choose either LSB or USB, carefully tune the signal, then tweak whatever notches and/or passband tuning arrangements you have at your disposal for maximum intelligibility. If your receiver has a dial lock, by all means use it. Otherwise you risk losing your catch when children, pets, or your own fumbling fingers bump the tuning dial. Finally, satisfied that it can't get any better, switch back to AM and hear the difference! Many weak, QRMed stations are simply unreadable in AM; some can't be detected at all.

IN CONCLUSION

The extent to which you use ECSSB is, of course, a matter of personal preference. It has obvious advantages over AM; it is also more difficult, though like most things it gets easier with practice. I use it at least 90% of the time, but there are lots of people with much fatter logbooks than mine who never use it. In addition to my R70, I am fortunate to own a Collins R-390A. This is quite possibly the finest AM receiver ever made, and during the 10% of my DXing time when I'm not using the R70 in ECSSB, I'm digging out AM signals with the Collins' incredibly sharp 2kHz mechanical filter. Even though audio is tiresome at such bandwidths in AM, there are times when it's the best way to go. If, for example, a weak station is equally and badly QRMed on both sides, a tight AM filter in conjunction with your own cerebral filter may have an edge over ECSSB.

Remember, then, that all techniques are worth knowing about, and many are worth using. In the final analysis, it's not the techniques themselves, but the knowledge and ability to choose the best technique for the situation that will bring in the most DX.

(My thanks to Rowland Archer and John Tow, who graciously served as "editorial review board" for this article.)

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That's a wrap for this month folks -- I hope you enjoyed it. The DX Season is in full swing, so keep those receivers warm and remember to report what you hear to FRENDX!



Easy Listening

Editor: Alex Batman, 4636 Alvin Dark, Apt. 2, Baton Rouge, LA 70820

SUNDAY

- 1425-1450 Sunday Magazine (Radio RSA). A generic collection of interviews and light topics often connected with the South African entertainment scene and including a number of South African pop songs (black and white music). (21.590/21.535)
- 1830-1900 Music and Musicians (Radio Moscow). Interviews with and excerpts from the performances of Soviet classical musicians, conductors and composers. During April the program ran a fine series of programs devoted to Russian choral music in honor of the 1000th anniversary of Christianity in Russia. (11.840)

MONDAY

- 1315-1330 Voices of Finland (Radio Finland International). Radio Finland's music program. Features all kinds of Finnish music: folk, pop, and classical, each program concentrating on a particular performer of genre. (15.400/11.945. Repeated at 1415)
- 1255-1300a Press Review (Radio France International). Excerpts from the main headlines and editorials of the main French newspapers: La Figaro & La Quotidienne de Paris (Conservative), L'Humanite (Communist), etc. Evening repeats of the program at 0255 include the evening newspapers, La Croix (Catholic) and Le Monde (Center) (21.645/17.720/15.365. Repeated at 0255 on 9.800). Daily

TUESDAY

- 1300-1310 Land of France (Radio France International). A general rubric for any feature loosely related to France. Past programs have included an interview with the winner of the Paris Marathon, a feature on drinking water in France, a group dedicated to saving the few remaining French bears (SOS Bears), and other programs of French interest. (21.645/17.720/15.365. Repeated at 0300 on 9.800)
- 2030-2040 Arab Women in Focus (Radio Damascus). A feature devoted to prominent Arab women in writing, painting, the arts in general or in politics. Like many Radio Damascus programs, however, this one contains little text in comparison to the frequent and lengthy musical interludes. (15.095/12.085)

WEDNESDAY

- 1130-1200 Soundabout (Radio Australia). Several years this was a two hour program, now reduced to a half hour and featuring the latest releases from the rock music scene, usually hard rockers to say the least, with some bits of rock music news. Wednesday's segment tends to feature the latest releases from Australian artists. (9.580/9.770.) Everyday but Friday when it is replaced by "International Top Hits"

0250-0325 Documentary Series (Radio Netherlands). Replacing the old Wednesday Report is a series of documentary features, either in single episode or a continued series. Two of the continued series have been "The Savage Breast" (not at all lewd but a feature on music) and "The Dutch Connection" (examining ties between Australia and the Netherlands in honor of the Australian bi-centennial). Single episodes have featured "What the Tourist Saw" (a tourist's eye view of the Netherlands), and an interview with the Dutch Prince and his efforts in favor of the environment and wildlife. (6.020/6.265/9.590/9.895)

THURSDAY

1140-1200 Culture in China (Radio Beijing). Radio Beijing's feature on, obviously enough, culture in China. Past programs have featured regional operas, a reading of a short story, an interview with a composer, etc. (9.665. Repeated at 1240 on the same frequency, and at 0040 on 9.770/9.665/11.715 and 0340 on 9.770/11.715/11.860)

• 2030-2040 Listeners' Club (Radio Damascus). Reads letters from listeners around the world with their comments on Radio Damascus programming, reception conditions, etc. Poor in comparison with most mailbag programs. (15.095/12.085).

FRIDAY

1140-1200 In the Third World (Radio Beijing). A feature on news and developments in developing countries around the world. The first part of the program is devoted to news features from third world countries, the second part a more in-depth look at one of these topics (such as agricultural reform in Ghana), and the final part of the program plays music from third world countries. (9.665. Repeated at 1240 on the same frequency, at 0040 on 9.770/9.665/11.715 and at 0340 on 9.770/11.715/11.860).

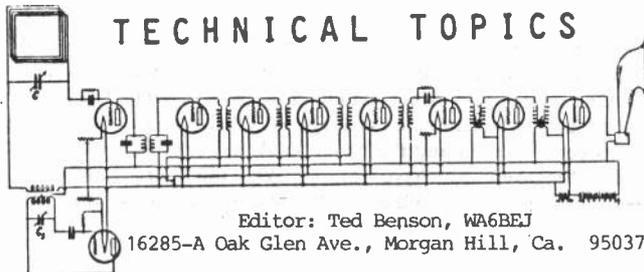
1300-1310 Book Magazine (Radio France International). This program alternates with "Cinema Magazine" on Fridays and each airing features an interview with an author, either French or international on this latest release. (21.645/17.720/15.365. Repeated at 0300 on 9.800) every other week.

SATURDAY

0225-0300 Cultural Survey (Radio Bucharest). Each program begins with an editorial examining the relation between culture and a socialist society, follows with a reading of a Romanian poem in translation, includes a portrait of a Romanian writer, musician or artist, and includes "Cultural Artistic Kaleidoscope" which features topical cultural events in Romanian. The program ends (for the last five to ten minutes or so) with excerpts from the concert of the week. (6.155/9.510/9.570/11.830/11940).

1830-1900 The Jazz Show (Radio Moscow). Actually one of Radio Moscow's best programs. Each week features interviews with and excerpts of Soviet jazz musicians-- pianists, jazz violinist, even jazz tuba players-- and several lengthy excerpts of their music. Nothing fancy about the show, but a lot of good jazz. (11.840).

* * *



TECHNICAL TOPICS

Editor: Ted Benson, WA6BEJ
16285-A Oak Glen Ave., Morgan Hill, Ca. 95037

FROM WAX TO WIRES

Ever since Thomas Edison recorded the first sounds on wax cylinders, engineers have been working toward ways to improve audio quality, not only in recordings but also in transmitted media.

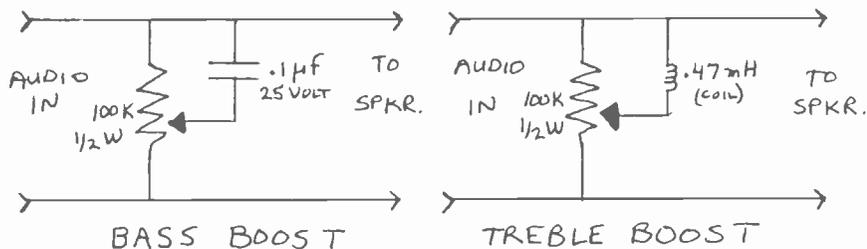
Unfortunately, all the measures taken at the transmitter to imbue signals with "high fidelity" are worthless unless special attention is also paid to the receiver. Unless your receiver is capable of reproducing at least some of the quality of the original signal, it's a lot like trying to receive a color TV signal on a black and white set - the potential is present in the signal but the receiver just isn't capable. Sure, the audio quality is important to the broadcast listener, but is it of concern to the utility listener, for example? You bet! "Fidelity" means faithful, and in audio fidelity means the ability to faithfully reproduce audio signals. If you are listening to faint SSB signals, or even AM, for that matter, the last thing you need is distortion in the audio. And on the more asthetic side, the better a signal sounds, the more likely a person is to continue listening to it. Shortwave broadcasters know this, and go to great lengths to maintain good fidelity (well, most of them, anyway). The problem, as stated earlier, is that most shortwave radio manufacturers seem to have concluded that we were all born with "tin ears." The fact is that even in expensive receivers the audio quality is often dismal. This is such a waste, because the potential for quality is already there - both in the transmitted signals and receiver technology. Why don't the manufacturer's pay closer attention to the audio section? Because they don't think you will pay the price. Like the I.F. filters discussed in November, quality audio sections cost money.

IS THERE ANYWHERE TO TURN?

Fortunately, the answer is yes. There are several things you can do improve your receiver's audio quality without major surgery to its insides. Start at the universal weak point of receivers - the speaker. In the early days of radio the speaker was almost always separate from the receiver - and almost as large! In more recent times, the push has been toward smaller, more compact receivers. Outboard accessories, particularly in portables, are frowned upon. The result is that external speakers are never furnished as standard features. Instead, even such expensive receivers as the R-71 come with pitiful little speakers mounted to their tops, bottoms, or sides.

Fortunately, most receivers also contain an earphone jack. This enables you to bypass the "8 ohm buzzer" inside the receiver, substituting a better speaker instead. James Feeley, of Norcross, Georgia recently discovered this, taking the technique one step

further. He connected the audio output to his stereo, allowing him to use the bass and treble controls to adjust the audio coming from his stereo's good quality loudspeakers. It works so well he is making some converts from family members previously put-off by the shrill audio of his receiver's internal speaker. If you don't want to tie-up your stereo as James did you still have alternatives. You can buy a large "mid-range" (frequency response, not price) speaker and mount it in a box. Although this will usually give dramatic improvement, you can do more, still. Following the general schematic below will allow you to vary the frequency response of the speaker by attenuating some frequencies while allowing others to pass. This is the principle of the treble and bass controls on a stereo. All speakers reproduce some frequencies better than others. The trick to good audio is to boost the frequencies the speaker is less responsive to, while holding back on the frequencies it handles the easiest. If you would rather buy than build, Grove Enterprises of Brasstown, Pennsylvania, has recently released an excellent unit that combines a quality speaker with tone controls in an acoustically designed box. The cost is under \$100. If you do choose to build, the circuit shown can be put on a perfboard and placed inside the speaker enclosure, with the controls on the side. Component values are not critical, so any well-stocked junk box (or my favorite, Radio Shack) can supply you.



UPSCALE OPTIONS

As helpful as tone controls are, they allow for only limited change of the audio quality. For more elaborate tailoring of the signal, an active audio filter is necessary.

Although the active audio filter is more important for reception of SSB and CW signals, it can be helpful in AM reception as well. The typical filter consists of one or more amplifier sections, low end and high end limit controls, and notch/peak controls. By carefully adjusting the low and high end limit controls, undesired frequencies above or below what you want to hear can be made to fall outside the audio passband - they disappear. But what about audio frequencies right in the middle of your "target" signal? You use the notch control. It places a big hole (the size of which is usually variable) anywhere you wish inside your audio signal. By carefully moving the notch around, and varying its width, you can rid yourself of beat notes and sometimes even voice or music from interfering sources. At the same time, the peak control can be used to emphasize a particular portion of your signal, allowing very sharp audio passbands to be "synthesized." The peak control, of course, is most useful when receiving CW signals.

Active audio filters can be built from designs found in such sources as the ARRL Handbook, Ham Radio, CQ, and 73 Magazines. Again, if you prefer to buy, there are many fine units available at

reasonable cost. Try the MFJ, Datong, or Heathkit catalogues. And remember: unless you plan to listen exclusively with earphones you will need an external speaker to use with an active audio filter.

Last but not least is the subject of earphones. Using the right set of earphones is as important as using the right speaker. Most stereo headphones are designed for maximum bandwidth - that is, they are designed to reproduce the lowest and highest frequencies possible, as well as those inbetween. This is not desirable when listening to shortwave radio.

Long ago, the telephone company (remember when there was just one?) performed experiments, to see what frequencies were necessary for acceptable voice transmission over phone lines and radiotelephone transmitters (for trans-oceanic service). They found that the frequencies between 300 and 3000 Hz were all that was necessary for adequate voice transmission. Using these frequencies resulted in voice reproduction that didn't sound excessively distorted (though, of course, not totally natural, either) yet didn't use as much bandwidth as a non-limited signal. It was also found that limiting the audio to these frequencies helped reject interference occurring at higher and lower frequencies (such as 60 Hz power line noise).

The same technique of voice limiting used by the phone company can also be used by the SWL when headphones are used. Instead of using high-quality stereo headphones, which allow all frequencies to pass, try using cheap headphones instead. If your budget allows, consider the professional-quality headphones sold for amateur radio operators. They are actually designed to limit the audio to voice frequencies. They won't, of course, give you high fidelity when listening to music, but they are fantastic when listening to anything else. Such equipment manufacturers as Icom, Kenwood, Yaesu, and Shure sell a wide variety of communications headphones.

In the last few months I have presented columns covering your shortwave reception system from the antenna to the speaker. In this column I have included a simple but useful circuit for those who enjoy "rolling their own." If you would like to see more columns featuring construction articles, or any other topic in particular, please let me know. As always, please include a S.A.S.E. if you would like a personal reply. Until next month, happy listening!

73's

Test Brown

NOTICE: John F. Wilson, Episcopal Church Home, RD #3, Box 233, Hammond Wing 105, Hockessin, DE 19707-9581 would like to have some contact with other DXers in the area by mail or phone (302) 996-9032. John is a handicapped DXer who resides in a nursing home about 30 miles south of Philadelphia and he would appreciate hearing from other DXers.

NOTICE: The Danish Shortwave Clubs International is sponsoring an International DX Contest "The Grand Tour With Cancer and Capricorn." The contest will be held in March, 1989 and is opened to DXers all over the world regardless of their club affiliation. Contest fee is five (5) IRC's and prizes will be awarded. Every participant will receive a contest diploma and a list of participants and scoring. If you wish to participate, write for a contest form to the following address: Jarsolav Bohač, ČSLA 2900/11, 400 11 Usti n. L., Czechoslovakia.

the page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

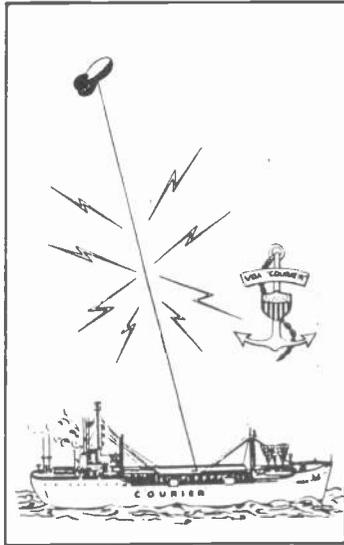
JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481

ALGIERS, ALGERIA, NORTH AFRICA

THE VOICE OF AMERICA

IN NORTH AFRICA

We are pleased to confirm your report of reception of our station on 31-22 m., 9610 kc., Nov-16 1946, at 1900 hours, G.M.T.



THE VOICE OF AMERICA

HONOLULU, T.H.

PROGRAM	TIME (GMT)	FREQUENCY (KILOCYCLES)

This is a verification of your report of 9 November 1945, on 17,800 kilocycles.

KRHO

English News is presented on the hour —GMT

Welcome to the first edition of The CPRV Page.

The Committee to Preserve Radio Verifications was set up in 1986 to provide a depository for QSLs belonging to hobbyists who have become inactive or passed away, and to stem the loss of this interesting material. These QSLs are kept at WCSN headquarters in Boston. Among the material donated to us are verities from some of the top DXers of the past. +++ The CPRV Page will be used to display some of the SWBC material we have received. We want to express our thanks to cooperating ANARC clubs for giving us space for this purpose. We are going to start off this month with some interesting QSLs from our own VOA--the USCGC "Courier," KRHO in Hawaii, and the VOA in . . . Algiers?! +++ If you know of any QSLs that are in need of a new home, please get in touch with the CPRV chairman (address at the top of the page), or a CPRV member. A business size SASE would be much appreciated. The committee members are . . . Kent Corson, 4015 Tanglefoot Terrace, Bettendorf, IA 52722, tel. 319/355-7293 . . . Gerry L. Dexter, R.R. 4 - Box 110, Lake Geneva, WI 53147, tel. 414/248-4845 . . . Tom Gavaras, 10401 Cedar Lake Rd. (215), Minnetonka, MN 55343, tel. 612/544-2433 . . . and John C. Herklmer, 3233 East Ave., Caledonia, NY 14423, tel. 716/538-2582. +++ More next time. Many thanks!

A Committee of the Association of North American Radio Clubs



Listeners Notebook

GLENN HAUSER, Box 1684, Enid, OK 73702

PROPER CREDIT Other publications and broadcasters may use material from LN, provided due credit be rendered to the original reporter and the NASWA Listeners Notebook. This courtesy does not extend to closed organizations which do not allow reciprocal access to their publication. BBC Monitoring items (designated WBI for World Broadcasting Information) are copyright and may not be reproduced without BBCM permission. The most important items have been broadcast immediately on SWL DIGEST or WORLD OF RADIO, not otherwise mentioned herein. All contributions to LN are gratefully received, but your editor cannot promise a personal reply because of severe time constraints. Material for LN should be marked as such each time, not just on the envelope, as input for other outlets also comes to Box 1684. Reports to gh should not be cut into little strips. It also helps if you use one side of paper only and do not mix LN items with other correspondence. All times, dates and days are day/month GMT = UTC, u.o.s. Please do not ask gh for advice on receivers or other equipment. Thanks (gh)

AFGHANISTAN [non; cf Dec LN-12] The R Afgh item is incorrect. Stn is actually R Liberty w/pgms in Tatar-Bashkir at this time, on 5295.0 (Tony Jones, Paraguay, 16/12)

[non non] R Afghanistan, Kabul, ES complete: 0130-0430 Baluchi/Pashto 11820 6085 4760. 07-09 Pashto/Dari V of the Homeland 17720 15435 9635 6085v 4760. 09-1030 EG on same. 1230-1330 Urdu 17720 15435 4760 4450. 1330-1430 Baluchi/Pashto 17720 15435 9635 6085v 4760. 1430-1530 Baluchi/Pashto 7200 4740 3965 1278 1107 945 648. 1430-17 Pashto/Dari V of the Homeland same fqs as 1330. 17-1730 AR ME 9895 9865 7295. 1730-1830 Pashto/Dari Breeze of the Hindu Kush, 1830-19 GM Eu, 19-1930 EG Eu all on 6020 4760. 1930-20 FR Eu/ME 9635 & 7200 - unconfirmed. As is target uos, also domestic at 1430-1530. Some fqs are relayed from xmtrs in USSR (WBI 25/11)

ALASKA KNLS sked until 25/3: 07 6125 E USSR RS. 08 6065 E PRC EG. 09 6065 E USSR RS. 10 6065 Japan JP. 11 7365 E PRC Mandarin. 12 6095 E USSR RS. 13 7355 Japan JP. 14 6100 C PRC MD. 15 7355 As Pac Coast EG. 16 7355 C PRC/ E USSR EG. 17 7355 E USSR RS. 18 7355 As Pac Coast EG. 19 11700 E USSR RS. 20 11700 Japan JP. 21-22 9815 E PRC MD.

Tentative for 26/3 to 6/5, same langs: 07 7355, 08 11715, 09 11820, 10 9840, 11 9710, 12 7365, 13 9840, 14 11700, 15 9750, 16 & 17 11700, 18 11650, 19 11700, 20 & 21 12025. Tent for 7/5 to 23/9: 07 11860, 08 11715, 09 11820, 10 11930, 11 9710, 12 & 13 7355, 14 & 15 11650, 16 & 17 12025, 18 11650, 19 11700, 20 & 21 12025.

Russian pgms include English for You, Wed & Sun 07, 12, 19; Tue & Sat 09, 17. World of American Music daily 0730, 1230, 1930. Japanese includes Classic Jazz Mon-Sat 1030, 1330, 2030. Mandarin includes classical mx M/W/F/Sun 11 & 21, Tue/Thu/Sat 14. EG pgms incl Jazz "E" Mon & Thu 0830 & 1630; All That Jazz Tue & Fri 0830 & 1630; Classical Mx Wed 0830 & 1630; Swingin' Years daily 1530 & 1830 (via Hank Michalenka, Johnston RI, 5/12) Welcome aboard!

ANTARCTICA LRA36 now on 15476, 22-0030, occly extended to apx 0225 (Tony Jones, Asunción, Paraguay, 16/12)

ARGENTINA R Nacional, Bs As seems to have taken the low power, 1 to 7.5 kW, xmtrs off the air. No trce of 9710, 11755 or 15290 durin Nov or first half Dec.

15780, R Rivadavia/R Del Plata ISB feeder via PTT, reactivated after several years. First hrd 27/11, then each Sunday. Audible by about 1110, then thruout daylight hours. Sometimes replaces 9115 for R Rivadavia, sometimes //. 4588 is 21-02 Mon-Fri, shorter on Sun, and I've yet to check Sat (Tony Jones, 16/12)

AUSTRALIA ABC Managing Dir David Hill is undertaking a review of R Australia; current problems incl ageing xmtrs; evaluate performance before commit to upgrading (RA 20/11 via WBI 25/11)

BANGLADESH R Bang, Dhaka, 7505.3, 18/9 1645-1915 Indian sytle singing, BG anmt, TS, ID, nx, EG nx, mx (Salvatore Palacanca, Italy and Bernhrd Grundl, W Germany, Nov DSWCI SW News) New 10 kW xmtg stn at Thakurgaon commissioned 11/11 by Pres Ershad. Cost 30 megataka, will relay Dhaka, and now every nook and corner [not cranny] of country comes under nationwide radio bc system (WBI 18/11)

BOLIVIA UnID on 5159.5 almost daily until s/off arnd 0240. UTC-4 TCs, but no def ref to Bol. Unlikely any other country. Mainly nondescript pgm of ballads, boleros, lite mx, some talk. Tough copy due QRM/N (Tony Jones, Paraguay, 16/12)

BOTSWANA R Botswana, Gaborone, multilinggual DS: 0350-07 7255 4820 3356; 07-15 7255 5955 4820. 15-1730 7255 4820 3356. 1730-21 4820 3356. EG pgms include: 0430-0435 News Headlines in Setswana & EG. 0510-0520 nx. 1610-1620 M-F nx. 1645-17 M-F Around the World Today. 1910-1920 nx (WBI 16/12)

BRAZIL Radiobras seems to have dropped Spanish xmsns. No trce of either 9655 or 11745 at 00 or 01. Nor can I find the missing bcs on any other fq. Other lang appear unchanged (Tony Jones, Paraguay, 16/12)

BULGARIA During summer time in Bulgaria, all xmsns will be hrd one hour earlier. EG: 00-01 Am 11720 9700. 04-05 Am 7115; Af 11765 11735 11720. 0730-08 Eu 11720 9700. 1530-16 Af 15310 11735 9740. 1830-1930 Af 15310 11735 9740. 1930-20 Eu 11720 9700 6070. 2130-22 Eu/Am 11720 9700 7115. 2230-2330 Eu 11720 9700.

Output totals 303.45 hpw, of which leading lang is EG, 52.30, then FR 38.30, TK 32, SP 31.30 (WBI 16/12)

BURMA BBS reported 9/11: Info & bc dept u/Ministry of Info ancd that from 1/12 it will accept private commercial ads on BBS radio & TV (WBI 18/11) BBS 4742.8v, regular, almost locl strength w/beautiful mx indeed, BM anmts, 1439-1500 (Björn Fransson, Sweden, and Mikhaïl P Timofeyev, USSR, Nov DSWCI SW News)

CANADA RCI ancd 12/11: spl bc from 0000 22/11 to USA/Carib, 0030 to Eu/Af/ME. Ancd 13/11: Af/Eu/ME on 3975, 5975, 7230, 9530 via Daventry [axually, 3975 was Skelton, a new RCI 'site'--got a spare QSL blank if you hrd it?] EG portions at 0030, 0130, 0230, 0346, 0430, 0530 (WBI 18/11) BBCM provides the data on my muse whether RCI output is strictly equal in EG & FR--it is not. Weekly output to all areas, incl CBC relays, is 185.50 hpw, of which 64.20 is in EG, 43.00 in FR. 3rd plce is RS, 21 hpw (WBI 25/11)

[Cf Dec LN-13] I would like to make clear that the last 3 lines of remark were a response to the non-person treatment gh receives from PWBR, in which SWLD itself is certainly not a party. In reality, I myself always listen to the entire SWLD bc each week, even the portions in which L--- M--- appears, and often even the gh portion to remind myself what he said--hi--and suggest that everyone else do likewise (gh)

CAPE VERDE AFP reported 31/10: Herve Bourges, former dir of RFI and TF-1 TV, says he just signed agmt w/CV to install there 3 hi-power xmtrs for bc toLam/Af on SW. "Many stns are intrestd in these new facilities, but they will hve to compete. I have no preference for VOA or R Moscow." At 55 [years of age, a datum beloved of print journalists despite its irrelevance; why not tell us how much he weighs, while you're at it?] Bourges has founded his own firm to invest in audiovisual produxions (WBI 11/11)

CHINA 9845, R Beijing in Albanian until 2125*. Also hrd earlier, but reception too poor to be able to ID lang. Is this a new bc? (Tony Jones, Asunción, Paraguay, 16/12) Yes, I believe it's one of the relays via France (gh)

C H I N A (PEOPLE'S REPUBLIC)

China finished the DST on Sep. 10th.

(Ed.)

Radio Beijing has changed IS, opening announcement and closing music. R. Beijing shorten IS of "The East is Red" to 4 opening bars (formerly 8 bars). Adding Chinese ID between IS', as "Zhōngguó Guójì Guāngbō Diàntái" ("Chinese International B. S.", this is the formal name of R. Beijing). However Std. Ch, Cantonese, Amoy, Hakka and Chaozhou pgms are as before, "Beijīng Guāngbō Diàntái" (Beijing B. S.) Closing music is 30 sec. melody, the title may be "Good Jiangnan" in place of arranged music of the National Anthem. First noted on Oct 5. (Nobuo Hina, Hirofumi Yamaoka, Kunihiro Nishida, Tetsuya Kondo) (East Asian DX News of Asian Broadcasting Institute, 15/11 via Tetsuya Kondo)

C H I N A (PEOPLE'S REPUBLIC)

Radio Beijing changed a schedule on Oct. 11 and Nov. 22. Several programs has shifted the broadcast time period.

And Radio Beijing has started exchange-relay broadcast with Radio France Internationale since Nov.

Recent EG program frqs : to Western part of North America; 0300-0355 15455 11715 9770 9690 9675, 0400-0455 11980 11695 9675, 1400-1455 15165 11600 7405, to Eastern part of NA; 0000-0055 11715 9770 9665, 1100-1155 9665, 1200-1255 17715 15110 9665, to Europe 2000-2055 and 2100-2155 9710 6860 4130(unofficial), to Western part of North Africa; 1900-1955 9440 6955, 2000-2055 11715 9785 9745 9440 6955, to South Pacific; 0830-0925 and 0930-1025 15445 11755 9700, 1200-1255 11600 7820, 1300-1355 11600. (Shigenori Aoki, Tetsuya Kondo)

R. Beijing Esperanto section replied answer response to a question concerning with its new opening and closing style. It said that these style had introduced since October 1. Also made clear the closing 30 sec. melody is named as "Molihua (Jasmine)". ["Good Jiangnan" in last issue is mistake. - Ed.] This is a famous folk song around Jiangsu Province. (Nobuo Hina, Akira Yamanaka, Tatsuo Gima, Hirofumi Yamaoka)

Yunnan PBS has reopened a transmitter of 3910kHz. Noted on Nov. 16. According to a schedule received from this stn, it broadcasts as follows.

General Service: Std. CH 2220-0100, 0225-0600, 0855-1540 on 7210, 4760, 2460, 990, 576kHz.

Educational Service: Std. CH 0045-0430, 0930-1030, 1415-1545 on 5960, 1242kHz.

Literary Service: Std. CH 1125-1530 on 6035, 3910, 1350kHz.

Nationalities Service: 2230-2315 Lahu, 2315-2400 Jingbo, 0000-0045 Lisu, 0430-0515 Dehong Dai, 0515-0600 Xishuangbanna Dai, 1030-1115 Dehong Dai, 1115-1200 Xishuangbanna Dai, 1200-1245 Lisu 1245-1330 Jingbo, 1330-1415 Lahu on 5960, 1242kHz.

Yunnan BS, independent organization of Yunnan PBS, is on the air as follows, using Yunnan PBS transmitters.

2230-0130 and 0900-1120 6035 3910, 1530-1550 6035 3910 1350 Programs in Vietnamese except "Program for compatriots out of Yunnan border" in Std. CH at 1100-1120 and 1530-1550. This stn relays Radio Beijing Vt pgm at 2300-0100 and 0930-1030. And testing FM stereo bc at 1230-1330 (extend to 1430 on Sat and Sun) on 94.4MHz. (Satoru Suga)

Xinjiang PBS has changed some frqs since October 31. May be in response to winter shortwave propagation. Following frqs are observed in the local night: Std. CH service; 6100 4500 3960kHz, Uighur service; 5800 4735 3990kHz, Kazakh service; 5440 4970 4330kHz, Mongolian service, including Kirghiz pgm; 5060 4980 4220kHz. (Satoru Suga) (East Asian DX News of Asian Broadcasting Institute, 17/12, compiled and translated by Tetsuya Kondo)

Xinhua reported 5/11: Beijing PBS began new local EG-lang svc today designed to serve more than 20,000 forners and Chinese residents who speak or are learning EG. Stn'll provide half-hour nx and spl pgms in EG from 1400 gmt Sat and repeat at 0330 Sun. Will mainly cover Beijing's co-op w/other countries and its trads and customs, such as "a week's important news", "Beijing's places of historic interest and scenic beauty", "Sino-forn joint ventures", "Forners in BJ" and "spl nx pgm" (WBI 11/11)

Jiangxi PBS, Nanchang reported 7/11: Ganzhou PBS formally went on air this morn. Relays CPBS, Jiangxi PBS, also seven nx and spl topical pgms, incl Ganzhou nx, on and off campus and market info, arts pgm, mx in stereo, mx requested by listeners (WBI 18/11)

R Beijing ancd 21/11: Tnx to relay agmt w/France, listners in Mex, CAM, N SAM can now tune in RB SP pgms at 02-03 on 13685; NAM CH & EG 15-17 UTC [sic-- 12 hours off!], 21-23 Mex time on 11695. That's Montsinery, F Guyana [sic]. RNMN gave remainder of RB via RFI, Allouis, France: 19-1930 RM 9845, 1930-20 CZ 6080, 20-2030 PL 6080, 2030-21 EG 9845, 21-2130 AB 9845, 2130-22 HG 7120 (WBI 2/12)

R Beijing ancd 21/11: From 25/11, RB first Persian-lang pgm will bc 30 mins earlier. 2nd unchanged. 3rd added. Thus: 15-1530 on 32 & 31 m; 18-1830 & 1830-19 on 43, 31, 30m. This'll incr RB weekly output in Persian from 7 to 10:30 (WBI 2/12)

COLOMBIA AFP reported 29/11: Liberal govt will begin being an offl 'Good nx' bulletin on state TV from 1/12; govt tired of private nx "only being bad nx". But Col nxpaper circles recalled that previous TV nx bc by previous govts hav failed 'in a flash'. Nxpaper contry described new nx as "lemon...hopeless task" (WBI 9/12)

Monitoring research 5-9 Dec: CARACOL Bogota currently hrd in // on two SW fqs, 4755 and 9510; 4755 first obs 5/12, 9510 7/12; 24hpd on 850 and the SW appear to be in use for much of the time (WBI 16/12) Probably tipped by Ernie Behr item about 9510 harmonic on my RCI report 26-29/11; if so, BBCM would never have the courtesy to acknowledge (gh)

4895, LV del Rio Arauca: As the P&T could not get me the phone number to the stn, I called up RCN in Bogotá. It worked fine, and I could then dial +57 81 52368. This also worked: stn has rcvd considerable number of reception rpts in spite of having a new addr: Cra. 22 No. 18-21, said dir Gustavo Trespalacios. No QSLs yet arriving; excuse was usual "waiting for our pennants to arrive" but all reports will be answered, nobody need despair, he claimed. Dir was quite surprised to rcv my call, wondered how I obtained phone number. Clearly had been giving DXers a thought, as Trespalacios disclosed he plans an intl mbg pgm at 04-05. I suggested Sat/Sun as convenient days and that the stn ask every DXer to send a viewcard in order for them to repaper a wall with them. I've seen this in LAM before, and results are astonishing! Should be clear by now that stn xmits with 10 kW, not 3 (Henrik Klemetz, SWB via Nov DSWCI SW News)

COSTA RICA R for Peace Intl has new 5 kW xmtr on hand, planned to start testing it first week of Jan. Hopes to raise power again by yearend. Check 21560v aftns, 13663 eves, or maybe reactivated 7375. Hope new xmtr will also include audio improvement. They will use 2 fqs at once w/old & new xmtrs working (gh)

R Sandino, Managua reported on nxconf by Nic Interior Ministr Tomas Borge and CR Public Security Min Hernan Garron Salazar at Barlovento Hotel in San Juan del Sur, Nic on 24/11. Two other CR ministers prticipating admitted that two contra stns freely op in CR, R Liberación and R Impacto. Ministr Garron responding to reporter's questions: R Impacto is an enterprise subject to CR laws. We do not censor statements before they are made. Don't know who owns it. Stn does hve legal status. R Lib does not, is cland. Trying to pinpoint location, which changes. Been going on for some time. Whenever we locate it, it moves.. In past it has been in Tres Rios, and elsenhen vy close to Nic embassy. In fct, once detected half a block from Nic embassy. Don't know if meant to mock someone, but is truth. When we detected it, it switched to another location in Aserri... (WBI 2/12)

CUBA RHC reported 22/11; Cuba will use all available means, excluding none, to respond to US plans to set up anti-Cuban TV Marti. So says Sergio Varata, sex-ion chief of Revly Orientation Dept. Says if US wants to it could negotiate bilateral exch of R/TV pgms w/Cuban govt. Wash chose to impose R Marti on Cuba, and now ancs imposition of TV. So Cuba reserves right to respond as appropriate to aggression. TV ch included in bill approved in July, initial budget 7.5 million a year (WBI 2/12) Vague, but since no means are excluded, I suppose they might assassinate former CIA director Bush, or something (gh)

CYPRUS Reports in Greek-Cypriot press on 14/11 and 15/11 indicated up to 4 cland radios 'd be on air coinciding w/demos to condemn anniv of proclamation of separate Turk Cypriot state: R Return (Epistrofi) on 103.5 FM; R Pentadakytylos, FM 104.0; R Liberation on FM 103.3 and 106.0; R Self-Determination (Avto-dhiathesi), no details (WBI 25/11)

CHILE R El Espectador, 15139.7, 2352-0025 25 & 27/9, ments of Mrs Allende, R Impacto (Frank A Baldwin, UK; Italo Tagliabue, Italy; Carlos Vives March, Spain, Nov DSWCI SWN) ?? Should be R Nacional; El Espectador maybe pgm name: and what about KGEI relay, in effect on those dates? (gh)

DENMARK Sveriges R reported 2/12: R Denmark will be forced to dismiss some 100 staff, reduce bc hours on R&TV following decision to raise licence fee by 2%. R Denmark had asked for increase of 6% in order to continue opn on present scale. Opposition in the Folketinget wanted to grant 4%, but govt parties' proposal of only 2% increase gained the majority (WBI 9/12)

ECUADOR HCJB in EG: 0030-0130 Am 15155 11910 11775 9720. 0130-0300 15155 11775 9720. 03-05 11775 9720. 05-07 11775 9720 6230. 07 (M-F 0645)-0830 Eu 9610 6205. 07-0830 Au 9745 6130. 0830-1030 11925 9745 6130. 1030-1130 11925.

1130-12 Am 11740. 12-16 17890 15115 11740. 16-1630 17890. 19-20 Eu 17790 & 15270. 2130-22 Eu 17790 15270. The 07-0830 EG to Eu often operates totally or partially // 07-1130 EG to AuAs. W/in certain xmsns, some fgs may carry separate relig pgms at times [i.e. 0030-0130 on 11910, all the time; why not just specify it that way as clearly shown on HCJB pgm skeds?] Latin American nx: Tue-Sat 0100 & 0530, daily 07-0705, Mon-Sat 19-1907.

Nx in SP from Rdif Nal del Ec, M-F 2201-2215 on 17790 to Eu. Complete Quechua sked (often mistaken for something more exotic due to spurs): 0830-09 on 6080 6050 3220 690. 09-0930 on same plus 9670 6110. 0930-1030 on same as 0830. 1030-1130 on 9670 6110 6080 3220. 1130-1430 on 6080 3220. 21-22 on 6080 3220. 22-2430 on 11900 9745 6080 3220. 0030-02 on 6080 3220.

Complete SP sked, ES & DS: 1030-1430 11960 11910 9765 6050 690. 1430-15 on 11960 11910=SaSu 9765 6050 690. 15-16 11960 9765 6050 690. 16-2145 on 17890 15160 6050 690. 2134-22 6050 690. 22-0130 11960 6050 690. 0130-02 11960 11910 6050 690. 02-0230 11960 11910 6080 6050 3220 690. 0230-05 11960 6080 6050 3220 690. 05-0830 690.

Total output of HCJB 500.55 hpw; led by SP 157.30, EG 134.15, QC 77, PT 41.25... (WBI 16/12)

EQUATORIAL GUINEA R Africa, mainly relaying Am evngelical pgms, obs *1656 19/11 on 9851.8 ex-nom 9555, still ancd. Opening anmt in EG said stn is on air 7 dpw 17-22 (WBI 25/11) Smax of trying to be like a US stn on 9852.5, unneeded

FALKLAND ISLANDS FIBS not hrd for several days on either fq up to 15/12; 3958 absolutely clear, and only a weak Limeira on 2380 (Tony Jones, Paraguay)

FRANCE Africa No 1 reported 5/11: Canal France, new French TV channel set up by French co-op ministry, will begin bcs to Af in first half of 1989. Ancd by M Antoine Schwarz, mng dir of SOFIRAD, 51% owner of stn. He just completed 4-day visit to Libre ville; said Gabon one of first countries to rcv pgms from Canal France, initially 3 hpd, then 4. Incl nx, pgms from French TV chs for which Canal France will acquire rights, eventually films (WBI 11/11) Sort of like a TV version of RFI, I guess, presumably satellite-fed (gh)

RFI in EG: 0315-0345 Eu/ME/Af/Am 11995 11700 11670 9800 9790 9550 7175 7135 3965. 1245-1315 Eu/Am 21645 17720 15365 15195 15155 11670 9805. 16-17 Eu/ME/Af 17795 17620 15360 11705 6175.

RFI is bc on 738 kHz from a 3 sesquiKW xmtr in Romanville for Paris area. On air daily 04-24 w/RFI FR WS except: 10-1030 SP, 16-17 EG. Sun also carries spl svc in FR 0830-10, 1030-11, SP 14-1430, Creole 1430-15.

Total output 309.15 hpw [3/5 of HCJB], led by--you guessed it--FR @ 164.30; then SP 47, PT 28, EG 14 (WBI 11/11)

Xinhua reported 16/11: R Beijing & RFI began bcng pgms on ea other's stns 10/11, Henri Tezenas du Montcel, RFI Dir ancd 16/11. RFI in FR for 6h[pd] to SAs, SEAs, Oc, Indo-China thru R Beijing and relays in Xian, Kunming. RB for 6h to CAm, EEu thru RFI in France & Guyana [sic; axually it's in French Guiana]. In CH, SP, EG, 6 EEu langs. RNMN reported 17/11: promised new EG pgm to India from R France still in planning stages. RF's next priority is pgming in Viet, Lao, Chinese. Ed note: RFI & RB conducted mutual relays in 1986 but these were suspended for 'political' reasons (WBI 25/11)

GABON ANO reported 18/11: Agmt signed today betw France & Gabon by French Co-op Ministr Jacques Pelletier and Gab MInfo Zacharie Myboto. For RFI to use Moyabi, and train Gabonese natis to provide tech, material assistance. Also studying establishing FM relay stn in Africa (WBI 25/11) This is news? RFI has been relayed from Moyabi since ANO began. Does this represent an expansion, a renewal, or what? (gh)

GERMANY EAST RBI in EG (one hour earlier during summertime in GDR); 45 min xmsns: 0045 Am 11890 6080. 02 same. 0245 Am 11890 11785 9620 6080. 0330 Am 11970 9730 6165. 04 Am 11785 9620. 0445 same. 06 Eu/ME/Af 13610 11810 9645 6115 5965. 0615 As 17880 15240. 0845 Eu/As 21540 6115; SaSu also 21465 9730 7185 6040. 10 As/Am 21540 11890 and SaSu=21465. 1045 Eu 6115. 12 Eu/ME on 17775 17755 9665 6115. 1230 As 21540 21465 17880 15445. 1315 ME 15240 11705. 1345 As 21540 21465 17880 15445. 14 Eu 6115. 1445 Eu 9730. 1545 As 17880 & 15240. 1645 Eu 9730 7295. 1645 Af 17775 15255. 1815 Eu 9730 7295 7260. 1830 Af 15145 15255 13610 9665. 2015 Af 15255 13610 9665. 2045 Eu 6115 1359. 22 Am 9730. 2245 Eu/Am 9730 5965. RFI total output 484.45 [less than HCJB], led by EG - 136.30 hpw, FR 73.30, SP 52.30, GM a distant 4th at 42 (WBI 18/11)

GHANA GBC reported 1/11: 19 workers of GBC dismissed for their part in assault of radio ancr on duty today. Plus 5 officers of local union dismissed. Several workers arrested for acts of intimidation and lawlessness. GBC to operate on skeleton staff, no TV this eve. GBC reported 2/11: no radio for 4 hours yesterday aftn, TV off last nite. Started w/demo by wrker handfull, placards, paraded lawns of GBC calling for recall of some local union offls. Demo was clearly illegal, noisy but no attempt to break it up. Mgt tried to reason w/ demo delegation. But wouldn't listen. Come time for resuming radio in aftn, some physically manhandled a lady ancr on duty in studio, pushed her out, locked studios. 3 svcs of GBC resumed normal xmsns this morn, w/skeleton staffs. GBC reported 5/11: Mr David Chartey-Tagoe has been apptd acting dir gen of GBC. Succeeds Mr L W Fifi-Hesse, who returns to civil svc for new asgt. (WBI 11/11)

GREECE Per ERT pgm guide Radhiotileorasi, ES pgm 5 inaugurated new daily nx bulletin in Polish 6/11, in the 1715-1750 bc to EEU on 11645 & 7430; 15/11 RS nx 1725-1740, PL 1740-1750 (WBI 25/11)

GRENADA Cana nx agcy reported 13/11: Chmn of a govt ministerial team on bcng, Educ Min George McGuire, says present admn will not privatise state-owned R Grenada. Govt not interested in turning stn into money-making machine and'd refrain from commercialising it. But looking at ways to improve stn; provide greater job security to lowly-paid employees who tend to leave. Cana reported 16/11: Caricom telecomms ministers are expected to hve a long hard look at complaints abt outside QRM w/bc sigs. No effective way yet found to deal w/ interference problems with French Caribbean or Venezuelan stns. Try to get Carib rep on the Admn Council of ITU (WBI 25/11)

GUAM AWR D88 until 26/3: 00 EG 15125, MD 11700. 01 EM 15125, MD 11700. 02-09 bcs are Sat/Sun only: 02 EG 17865, MD 15225. 03 MD 17865 (actually Cantonese & Shanghainese), MD 15225. 04 MD 17865, MD 15225. 05 MD 17865, MD 15225. 06 MD 17865, MD 15225. 07 MD 17855, MD 15225. 08 MD 17855, MD 15225 (actually Cantonese & Shanghainese). 09 MD 17855, MD 11980, 10 EG 9465, MD 11980. 11 IN 9465, MD 11980. 12 Filipino 9465 (Sa/Tu/Fr Tagalog, Su/Th Honggo [? indistinct], Mo/We Cebuano), MD 11980. 13 KR 9465, JP 11980. 14 EM 9830, MD 11980 (Cantonese & Shanghainese weekends). 15 Indian 9830 (Su/We/Sa Tamil; Mo/Th Malayalam, Tu/Fr Marathi), MD 11980. 16 Indian 9830 (Su/Tu/Th/Sa Hindi, Mo/We/Fr Telugu), EG 11980. (Off air 17-20). 20 KR 5995, MD 7365. 21 JP 15125, MD 7365. 22 IN 15125, MD 11700. 23 TI 15125, MD 11700 (via Hank Michalenka, Johnston RI, 5/12)

AWR-Asia press release 30/11 reported: on 6/11 we began new bc sked, and inaugurated 2nd ant system, officially ending construxion period, per stn mgr Allen R Steele. System 2, with 6-11 and 9-17 MHz ants, already improves svc to more northern seaxions of target area, Japan, Korea, China; has 315-degree boresite, \pm 30 deg of slew in 15-deg increments, per CE Don Myers. System 1, with 6-11 and 11-21 MHz ants, has 285 deg boresite, also \pm 30 deg slew. D88 sked takes full advantage of new flexibility, says Greg Scott, PD; increase total weekly hours to 224. Mail rcvd since airdate Mar 87 now exceeds 11 kiloletters from 86 countries (WBI 16/12)

KTWR sked: 0805-0930 EG 11805 incl Pac DX Mag Sun 0845-09. Targets As uos. 0830-09 RS Sov FE 11735. 09-15 Std CH: 09-0930 11665 9820, 0930-1030 11710 added. 1030-12 11665 9820 again. 12-14 same plus 9590; 14-15 11665 9820. 0930-10 EG Au 11805 incl Pac DX Mag Sat 10-1015. 1030-12 Indo 15240. 11-12 JP 11840. 12-1330 JP 9785. 1330-1345 Thu-Sun Swatow 11830. 1330-1345 Mon-Wed Hakka 11830. 1345-15 Cantonese 11830. 14-1430 Tamil 11910. 1430-1445 Assamese 11910. 1445-15 Santali 11910. 15-1530 RS 9895. 15-1640 EG 11910 incl Pac DX Mag Sat 1515-1530. 1640-1650 Sun EG 11910. 21-22 JP 11840. 2125-2145 Thu-Sun Swatow 11965. 2130-2145 Mon-Wed Hakka 11965. 2145-23 Cantonese 11965. 22-23 Std CH 11665. 22-23 IN 15420. 23-2345 Std CH 15265 and until 24 on 11665. Total output 167. 20 hpw, led by Std CH 54.15, EG 32.15 (WBI 11/11)

HONG KONG Xinhua reported 23/11: HK govt granted new 12-year licences to HK's 2 TV stn runners, ATV and TVB. Further restrixions on tobacco ads from 1/12, absolute ban from 1/12/90. Licences also stipulate max length of adbreaks, to 5 mins betw pgms, 3.5 mins w/in pgm. Both stns hve plans to increase capital investment in next 6 years to improve bc stds. New lics subject to mid-term renewal in Dec 1994 (WBI 2/12)

HUNGARY MTI nx agcy reported 7/11: R Budapest EG SW svc plans a trade spectacular in Nov on Business Partners pgm 19/11, commemorating 2nd anniv. Ivs visiting

businessmen, espily re joint ventures. Len Scott, ed of pgm says always pleased to hear from businessmen w/something to say; just call 361-387224 to get on the air. (WBI 18/11)

INDIA PTI nx agcy reported 2/12: Govt has ruled out setting up any bcng svcs by AIR in [sic] US & Canada, due to limited hardware capabilities (WBI 9/12) Sensible considering difficulties of trans-polar route, but absurd in this age of mushrooming relay agreements (gh)

INDONESIA Jakarta Post reported 18/11: first private TV stn in Indo, Pt [sic] Rajawali Citra Televisi Indonesia (RCTI) began bcng on UHF ch 43 13/11, 10-1430 w/kidvid, comedies, King [sic] Fu films; TVRI govt nx. From 21/11 pix will be scrambled and decoder needed (WBI 2/12)

RRI National Pgm in Indo from Jak obs in Dec: 22-01 & 10-1710 on 11865 9680 7270 4775 3277; 05-08 (Sun from 01) on 11865 9680 7270 (WBI 16/12)

IRAN VOIRI ES obs 19/11 & 20/11 on 6080 //9022 for TK 17, GM 18, FR 1845, EG 1930, SP 2030 (WBI 25/11) VOIRI hrd one eve on 11895 in EG 2015-2030, SP from 2030 but suddenly disappeared after minutecouple; ancd //31mb (Kaj Bredahl Jørgensen, Denmark, Dec DSWCI SWN) Switching error, I suppose (gh)

IRELAND R Fax, of the Forge, Craneligh, Surrey, England GU6 7BG, are active 24 hpd from Eire. The R Rainbow op Heddie Eddie runs these relays, 2h pgms on auto-reverse tape deck, nonstop 24h every day. Tapes changed on eves of M/W/F/Say [sic]. Switch time from MW to SW is 0830, after HCJB over, up to apx 18 or 19. Has been reported all over USA on 6205. Unfortunately this talk stn has to close down w/rest of Irish stns at Janstart/Decend, said last pgm would be aired 10/12 but then spl War of the Worlds bc 17/12. For QSL to addr above send 50p in UK stamps or 3 IRCs. New QSL avl, similar to old one but w/new addr.

Westside R plan big final xmsn 31/12 w/many people in studio, should make G listening. Will seem strange that no stns from Eire will be audible after all this time (Ken Baird, Scotland, Dec DSWCI SWN) R Dublin plans to defy govt, continue (R Ned Media Network)

ISRAEL [INTERNATIONAL WATERS] Monitoring research Oct-Nov: The settlers' radio stn, Kol Hatzvi (V of the Gazelle) continues hrd on 918 kHz, from ship off Tel Aviv coast, playing mx thruout day, interspersed w/relays of nx from VOI DS. Addr ancd as: Channel 7, Bet'el, D.N. East Benjamin, 90801 (WBI 2/12) Not to be confused with the US zip code of that number, Long Beach CA! (gh)

J A P A N

Radio Japan has published a new schedule for D88 (Nov 6 to Mar 4). The following is a new EG pgm schedule:

General service:

0100-0200 17845 17810 15195, 0300-0400 17810 17765 15195 9645 (to 0330 C); 0500(C), 0500-0600 17810 17765 15270 11370 5990, 0700-0800 21695 (G) 17810 15325 15270, 0900-1000 17810 11840, 1100-1200 11815 6120 (C), 1400-1500 11935 11815 7140, 1500-1600 21700(G) 15230 11815 7140 5990, 1700-1800 11815 9505 5990, 1900-1930 9640 9505 5990, 2100-2130 11850 9640 7280 6025, 2300-2400 17810 15230 15195 11815 11800(G)

Regional service:

0100-0130 American Continent 11905, 0300-0330 American Continent 21610 17825 11870, 0900-1000 Oceania 15270 11885.

Via (C): RCI, Sackville, Canada, (G): Africa No.1, Moyabi, Gabon.

RFI is. now relayed as 0930-1130 Fr 15215 (to Asian Continent), 1000-1100 Fr 17705 (to S.E. Asia), 2300-0030 Fr 17710 (to S. E. Asia). Actually a pgm starts 5 min. before this schedule. All 300kW.

RCI is recently relayed at 1200-1230 Eg 17710 15385 (to S. E. Asia) 1300-1330 Jp 6150 (to E. Asia and Siberia), 1330-1400 Rus 6150 (to E. Asia and Siberia), 1400-1430 Ukrainian 6150 (to E. Asia and Siberia), 1930-2000 Rus 9650 (to Siberia), 2200-2230 Eg 11705 (to S. E. Asia and Indochina), 2230-2300 Fr 11705 (to S. E. Asia and Indochina). 300kW except 15385kHz (100kW). (Toru Yamashita)

R. Japan had bc the General Service (Eg and Jp) 22h per day. But now 24h per day provisionally. First noted on Sep. 19. 30 min. pgms at 0500 (Jp), 1900(Eg), 2000(Jp) and 2100(Eg) are extended to 60 min. with News and Japanese music. The extension of GS enables it to convey the health condition of the Emperor to overseas at any time. (Toru Yamashita, Tetsuya Kondo)

(E Asian DX News of Asian Broadcasting Institute, 15/11 xltx & via Tetsuya Kondo)

JORDAN R Jordan reported 12/11: On occasion of HM King Husayn's birthday today, he has inaugurated new xmsn stn of HKJ in Kharranah; will op on 3 wavebands; 3 SW xmters, 500 kW ea, 12 ants; SW beamed to most worldregions. MW 1000 kW on 1449 to cover NAF, Gulf at nite. Also 2 LW xmters, 600 kW ea; can op in // w/1200 KW on 207 KHZ, cover HKJ, neighbouring Arab states [Israel too, I'll bet]. Xmsns currently obs on 11920 11810 9560 5960 801 612 (WBI 18/11)

Monitoring 19- 22 Nov: At 1730 19/11, EG svc on 9560 ancd test xmsn on 9560 to C&SEU, NAM, asking for reports to R Jordan, P O Box 909, Amman. EG svc now obs on 9560 05-2205 apx; fq ancd for W&CEu presumably a new 500 kW; xmsns from old 100 kW xmters were seldom hrd in UKOGBANI. R Jordan ancd 19/1 in Arabic: using new fqs 11810 207 1449 [the last two being metric convrsns of eachother] asking for reports to same addr, w/elements in reverse order.

Monitoring 20-22 Nov: Since 20/11, R Jordan main AR pgm ancd SW fqs & confirmed: 0330-15 11920 11810 9540, 15-2330 11810 9540 9530. Are //1485 1449 801 612 207. 11920 & 9530 ancd for W Arab Peninsula, Egypt, Sudan; 11810 Gulf, E Saudi; 7115 seems dropped. (WBI 25/11) But latr WBI shows 4 AR fqs at once:

R Jordan DS in AR: 0330-15 11940 11920 11810 9540, 15-2330 11940 11810 9540 9530. DS in EG 05-22 on 9560 855, FM 99 & 90.9 includes 5 min nx summary at 08, 10 M-F, 11 M-F, 14, 16, 19, 20, 21; longer 10-min nx 0530 Sat/Sun, 12, Sat/Sun at 17. 30-min Newsdesk 0530 M-F, 17 M-F. Jordan Weekly, nx reviews, ivs, Fri/Sat 1210-1230, Wed 15-1530 (WBI 16/12)

KAMPUCHEA Overseas Svc, R V of the People of Kampuchea, recently noted in a ltr that they seek reports, remark, suggestions from Am friends. While sounds like reqs from a number of intl svcs, I think it shows a definite interest in obtaining listener feedback. RVPK is certainly more responsive than its predecessors, verifying reports, sending out scenic viewcards, issuing stn pennant. I've suggested to them that they might consider a bc to NAM during 1330-15 UTC period beamed 0 to 20 degrees (Bill Matthews, Columbus OH, 18/12)

VOPK ancd 1/12: To mark tenth anniv of 7 Jan natl day, VOPK from 3/12 will extend feature on comprehension of legal matters Sats from 1315; also carry daily nx roundup nightly at 1330. Compatriots and friends invited to listen (WBI 9/12)

KENYA Kenya Times reported 15/11: State-owned VOK to become a public corporation. Bill setting up Kenya Bcing Corp published, soon to be tabled in parliament [tabled = put forth for consideration; not set aside]. But stn will continue to be known as VOK. Daily Nation reported 17/11: Revamped VOK will receive 2.3 gigashillings from Japan to improve svcs. Assistance to bcing makes up the bulk of 4.3 GSh Japan promised Kenya (WBI 25/11)

VOK reported 22/11: VOK on road to becoming parastatal org today when Minister for Info & Bcing Mr Waruru Kanja, moved the KBC bill in parl. Corp will overcome constraints, be able to raise own capital, equity. Said corp will not be hampered by govt bureaucracy, will make quick decisions for effective bcing. Nothing detrimental to well-being of nation will be bc, & corp will uphold Af moral traditions. Asst Min for Labour Mr Onyango Midika suggested govt should retain some control of VOK corp; shouldn't be left free like BBC to malign friendly countries. But VOK should be able to counter hostile propaganda by form media against the country. VOK reported 24/11: VOK will move from present bldg opposite Nairobi Univ to spacious site in Ngong area. Kanja said establishment of extl svc would be considered after the corp became economically viable (WBI)

K O R E A (DEMOCRATIC PEOPLE'S REPUBLIC)

Radio Pyongyang, the overseas service of Korean Central BS has changed its schedule. Noted in early November. EG pgas as follows: 0000-0050 Am 15160 15115, 0400-0450 SEAs 17765 15180 15160, 0600-0650 SEAs 15180 15160 15115 13650, 0700-0750 ME, Af 17795 15340, 0800-0850 SEAs 15180 15160 15115, 1100-1150 Am 11735 9977 9600, 1300-1350 SEAs, Am 11735 11335 9600, Eu 9345 9325, 1500-1550 ME, Af 9977 9640, Eu 11740 9325, 1700-1750 ME, Af 9977 9640, Eu 11740 9325, 2000-2050 ME, Af 9977 9640, Eu 9345 6576, 2300-2350 Am 13650 11735.

(Kunihiro Nishida)

(E Asian DX News of Asian Bcing Institute, 15/11, via Tetsuya Kondo, Japan)

KOREA SOUTH Yonhap nx agcy reported 22/11: govt is considering allowing SK TV media to relay live or recorded bcs of pgms on NK TV channels; reps from TV media allegedly suggested that proposed relay begin w/non-political nx incl sports, academic seminars, ecological surveys; later if non-pol bcs cause no problems allow pol material such as dramas, nx. SKoreans 'd be better prepared to understand reality of communism if broader and freer access granted to NK TV bcs. Could be either via comsat, or direct connexion. Govt consideration consid-

tent w/Pres No Tae-u's 7/7 declaration about co-existence (WBI 2/12)

R Korea in EG, (during summer time one hour earlier): 00-01 As 104.5 MHz. 0045-01 As/Am 15575 7275. 0245-03 Am 15575 9640. 06-07 As/Am 9570 7275 6060. 08-09 Eu 13670 7550. 0915-0930 Eu 13670 9570. 11-12 Af 15575. 1115-1130 As 11740 7275. 1330-1345 As 11740 7275. 14-15 As/Am 15575 9570 9570. 1545-16 ME/Af/As 9870 7275. 16-17 ME/Af/As 9870 5975. 1715-1730 ME/Af 9870. 18-19 Eu 15575. 1945-20 As 1170. 2030-2130 Eu/ME/Af 15575 7550 6480. 2045-21 ME/Af/As 9870 5975. 2330-2430 Am 15575. 15-min bcs are World nx Svc. Total output is 435.45 hpw [less than HCJB], of which 105 is KR, 78.45 EG (WBI 9/12)

LIBANON Monitoring Aug-Nov: pro-Amal V of the Natl Resistance, obs 9/11 on 1350 kHz; when last hrd on 22/8, was on 1050. VONR ancd 9/11: VONR is with you after second stage of the great stn project. We hope all our listners outside Beirut who pick up our bcs for first time will contact us w/obs on signal, audio. Phone 801606, 801608 and 821659 (WBI 18/11)

Al-Shira reported 5/12: Amal mvmt intends build radio stn in the south. It will cover the Jabal 'Amil area initially; from town of Zifta, on MW. Name not yet decided, tho likely V of the Deprived. Preps u/way to start soon (WBI 16/12)

LESOTHO R Lesotho, multilingual DS on 4800 0255-2200 [so much for 24h report], incl The World this Morning M-F 0430-05; EG nx at 05-0510, 1130-1140, 16-1610 (WBI 25/11)

LIBYA SPLAJBS [sic], Tripoli, 7475, 0625-0635 29/9 AR mx, ID, 45554 (Franz Stuss, Romania, Nov DSWCI SWN)

MONACO France Inter reported 18/11: Herve Bourges is new boss of R Monte Carlo. Former Chmn-Mng Dir of TF-1 will take up office 5/12 as Dir-Gen of RMC; cf Cape Verde & Gabon (WBI 25/11)

MONGOLIA RUB, 7262.0, 1124-1129 7/11 Mong songs, anmt, 24322 (Mikhail P Timofeyev, USSR, Dec DSWCI SWN)

NETHERLANDS RN in EG at 1130-1225 on new 21615 since 12/11. Ancd as to SAs, asking for rpts; unsure if Flevo or relay (Tony Jones, Paraguay, 16/12) 21615 being tested because of previous QRM problems, rpts wanted; also check 21480, and 17575 at 1130 (RN anmt 10/12 via WBI 16/12) RN obs testing 1030-1125 on 25970 in DT to E&SEAs ex-17575 //21480, rpts reqd; hrd 30/11 to 7/12 (WBI 9/12)

RNMN reported 10/11: earlier this year RN completed 100 k\$ survey on options incl possible countries for relay. Rpt now presented to Dutch MinCult Elco Brinkman. Is he interested in idea of Asian relay? RN dir-gen Cees Verheugd says: constructive discussion w/Mr Brinkman. Considerable financial consequences. Not realistic to expect minister to say here's the money, go ahead. Asked us to explore possibility of joint venture w/another intl bcer. So far we've not decided on location or with whom. If As opn improved, then should also add langs, or at least one; hope to have final discussion in half a year (WBI 18/11)

NETHERLANDS ANTILLES TWR final D88, tent M89: 6145 0655-0930 50 kW 170 deg Bz1 PT. 6180 01-02 100 327 Carib SP. 9515 0655-09 100 148 Bz1 PT. 9535 03-0430(Sun, Mon 0530) 50 327 NAm EG. 9535 0430-0530 Tue-Sat 50 285 Cam SP. 11815 1110-1257(Sun 1332, Sat 1400) 50 327 NAm EG. 11865 0942-11 50 176 Sam SP. 11885 0920-0955 100 148 Bz1 PT. 11885 10-1030 100 160 Sam GM. 11930 (alternate 11790) 0210-0430(Sun/Mon 0530) 100 336 NAm EG. 11930 0430-0530 Tue-Sat 100 336 NAm SP. 15345 same as 11815 except 100 kW 336 deg. 15355 2325-24 100 160 Sam GM. 15355 00-0030 same Bz1 PT. 15355 Tue-Sun 100 160 Sam SP. 15385 2155-0030 50 176 Bz1 PT, 0030-0218 same Sam SP. J89 tent same except 11865 ex-6145 (TWR 31/10 via Richard Lemke, St Albert, Alta, Canada)

NEW ZEALAND RNZI, ES of BCNZ: 2245-0045 & Sat 0045-0230 & 0230-0630 on 17705 15150. 09-1115 11780 9850. 1730-2015 15150 11780. All to Au primarily in EG [BBCM draws no distinction between the Au & Pac beams NZ uses] incl nx 23-2308 Fri/Sat, 23-2319 other days "Midday & Rural Report"; 23-2335; 05-0510; M-F 0510-0525 nx mag Checkpoint. 09-0915 nx & sport; 10-1005, 11-1108; 18-1805 Fri/Sat, 18-Sun-Thu Morning Report, 1830-1835 M-F, 19-1905, 1930-1935 Sun-Thu, 20-2005. During winter time in NZ, all one hour later. Most pgms relayed from 2YA Wellington. Nx in Maori M-F 0405-0410, Sun 0430-0442; M-F 06-0630 nx in Maori, Samoan, Tokalaun, Tongan, Cook Island langs. Total output 78.45 hpw. [Oh BBCM does append the following, tho w/out saying which fq is which] 0045, 0230, 09 & 2245 xmsns to Au/PNG; 0045, 0230, 1730, 2245 to Pac islands (WBI 18/11)

NICARAGUA [see also COSTA RICA] El Nuevo Diario reported 3/11: Per a CORADEP cqué, R La Cachorra [Managua] will not be on air for 15 days, then will resume on same fq. Due to Cachorra xmtr being taken to Bluefields so that R Zinica, damaged by hurricane Joan, can resume opns, serve urgent comms needs (WBI 11/11) La Prensa reported 26/11: In surprise move, on its 10th anniv, govt radio stn R Sandino's dir journalist Rodolfa [sic] Tapia Molina was replaced by Humberto Sánchez Martinica. But per R Sandino source, various reasons. Dionisio Marengo, FSLN dir of agitprop, becoms gen dir of all state bc stns. Sanchez Martinica, who has been Dir of CORADEP stns, will be R Sandino's new dir, while Rodolfo [sic] Tapia Molina will be dir of his radio nxpaper R Informaciones. Dionisio Marengo will be gen dir of R Sandino, Voz de Nic, la Primerisima and all other CORADEP (Perople's R BcingCorp) stns (WBI 9/12)

Monitoring 7-9 Dec: Relay of VON DS in SP obs 1250-2315 9/12 on 5948.5; had been hrd on occasions in past on 6015 or 6100. ES of VON now on 6100 in SP 14-18, 00-04, EG 04-06. Ancd 6015 unhrd (WBI 16/12) Was also on 5950v long time ago

NORWAY Atlantic Ocean wx report in NW daily 0055-01 Am 9615, 0255-03 Am 9650, 1455-15 Am 15310, 2255-23 Am 11850. Fqs often changed from R Norway Intl; ancd 5 mins before ea xmsn during week prior to first of ea month (WBI 25/11)

RNI changes effective 1/12/88, 45 min xmsns: 04 11750 ex-11760. 05 11750 ex-11745. 06 21725 ex-15165. 10 11850 ex-15180. 14 15195 ex-15190. 14 15175 ex-15250. 16 9610 ex-11760. 16 15265 ex-15310 [well, after 1/12 I still hrd 15310, not 15265=bad choice due to BBC Sackville]. 18 15225 x-15220. 23 11845 ex-11850 (WBI 16/12)

PAKISTAN External Services
 0045-0230 World Service to S.E.As on 15115 17660
 0100-0245 Bangla on 11995 15190
 0230-0245 Slow Speed News--S.E.As on 15115 17660 7175
 15580*17725*
 0300-0345 Swahili to E & SE Afr. on 13675*15515*
 0330-0414 Irani on 9495 12005
 0400-0600 Gujrati to E & SE Afr. on 15515*17725*
 0430-0645 World Service to Gulf & ME 12015 15605 17660
 0500-0600 Arabic on 15565 17870
 0700-0745 Turki to Afghanistan on 7225 9495
 0715-0815 Burmese on 17640*21475*21595
 0715-1105 World Service to UK on 17660 21490
 0900-0945 Tamil on 15195*17770*
 1105-1100 Indonesian on 17785*21475*21595
 1105-1120 Slow Speed News-W.Eur on 17660 21490
 1115-1230 Hindi on 9495*11640*
 1200-1300 Arabic on 15605 17660
 1230-1445 Bangla on 11635 15295
 1315-1545 World Service to Gulf & ME 9475*11615 13675*
 15605
 1600-1630 English News to Gulf & ME 7110* 9775 11615
 13675*
 to E & SE Afr 15515 17895
 1645-1745 Turkish on 9580*11625 13665*
 1645-1900 World Service to UK on 9760 11570
 1700-1745 Irani on 7110 9485
 1800-1900 Islamabad Pgm to Gulf & ME 9485
 1915-2015 French to Europe on 11570
 to N.Afr. on 11615

* via Karachi 50kW.....others via Islamabad 100/250kW
 (Noel R Green, UKOGBANI, Dec DSWCI SW News)

Home Services from Islamabad
 API-1 100kW...1000-1209 on 6090, 1300-1600 on 4780
 API-2 100kW...0045-0403 on 5090, 0600-1145 on 7290
 1200-1337 on 6130, 1400-1803 on 3900
 API-3 100kW...0630-0634 on 7095
 API-4 100kW...0330-0337 on 7290
 API-7 10kW...0100-0110 on 5045, 0200-0210 on 7290
 0250-0307 on 7290, 0330-03:7 on 7645
 0400-0403 rx 9645, 0500-0503 on 9645
 0600-0603 on 9645, 0630-0634 on 9645
 0700-0703 on 11570, 0900-0903 on 11570
 1000-1003 on 11570, 1230-1303 on 11570
 1330-1337 on 11570, 1400-1403 on 11570
 1500-1530 on 7290, 1800-1803 on 5045
 Link Services via API-7 :
 0230-0245 on 7290 ; 0715-0815 on 11570 ; 1015-1100 on 11570
 1115-1230 on 11570 ; 1600-1630 on 7290 ; 1645-1745 on 5045
 Balti Service: API-3 0300-0400 on 6065
 Sheena Service: API-2 0430-0530 on 7290
 API-4 0945-1200 on 7130

Rawalpindi III Service via API-8 100kW :
 0045-0430 on 4960, 0600-0930 on 7265, 1200-1415 on 4790
 1430-1803 on 4790

Regional Home Services.....all 10kW
 Rawalpindi : 0045-0403(F.0500) & 1500-1803 on 3955
 0600-1100(F.0600-0820 & 1000-1100) on 6130
 1115-1445 on 6220
 Peshawar : 1000-1205 on 6070 ; 1400-1500 on 4950
 Quetta : 0045-0403(F.0345), 1200-1600 & 1745-1803 on 4880
 Karachi : 0600-1145(F.0400-0820 & 1000-1045) on 7170
 : 0400-0545 on 5960 & 1400-1700 on 5905 Zonal
 0200-0210 Urdu rx & 0300-0307



PAPUA NEW GUINEA RA Communicator reported 13/11: 4890, which we expected to stay off for some time, now running again on test basis, but not w/original xmtr. NBC using old xmtr of R Central 3290, now replaced by new 10 kW NEC. Managed to retune old 2 kW xmtr to 4890, but at least back on air w/Karai svc, natl dom svc normally on MW (WBI 18/11)

PERU - 5816, La Voz del Altiplano, extremely irregular; comes on for a few days, then disappears for 2-3 weeks. Seems to have electricity problems, as often weak when actually on the air.

6173.9, R. Tawantinsuyo, on reduced schedule during much of November, but now back to normal:*0940a and 0300*.

6304.5, Radio Acari, heard regularly with good signal from around 2300 until 0400v*. Normally spot on this frequency, but 12/4 was oh 6304.0 until fault corrected sometime between 0234 and 0247.

6323.8, Estación C, often heard to sign-off around 0100. Seems

to go off earlier on Sundays, but needs further checking. Operates extended schedule to 0300+ for special events, e.g. local fiestas.

6571.5, Radio Tacna, even more irregular than 5816, and leaves the air at varying times, e.g. 0000, 0200. Signal strength always good, though. 9505v heard local mornings mixing with the Brazilian, and 9486 sometimes observed Sat. nights and Sundays.

6691.2, Radio Cutervo, first noted 11/11 but not identified until early December. Normally signs off around 0400, but sometimes heard as late as 0600.

6726.5, R. Satélite, now stable on this frequency. Currently operating a reduced schedule, and normally signs off about 0140.

6895.2, Unid, virtually impossible to catch either location or ID, due to extremely fast delivery of announcer. Many mentions of "ecuatoriano", but signs off with the Peruvian anthem.

9675, Radio del Pacifico, back here ex-9949.8; first noted Nov.10, but may have changed during October. Quechua no longer heard 1115 Saturdays. (Tony Jones, Paraguay, 16/12)

PHILIPPINES R Veritas Asia, in EG: 0130-02 15325 15275, 15-1530 15360 15220. Only OOB usage is 9860 for Std Chinese 2130-2325. Total output 143.30 hpw, led by Std CH 29.45, Viet 19.15, and guess what's in 3rd place? Karen 10.30 (WBI).

PORTUGAL RDP Intl reported 12/11: xmtr refurbishment project underway since 1987. In 1988, SW xmtr, and refurbished São Marçal studio opt; we are already in the new studios. In 1988, new ant for Af will be installed, and at yearend or 1989 yearbegin, powerful 300 KW xmtr for Eu becomes opt, tripling power of our xmtrs of 100 kW. 1989 aim is to improve xmns to Am continent. 1990, new xmtr for FE; 1991, new xmtr for Eu. Investments already made exceed 500 megascudos, and in 1991 a further sesquigigaescudo will be spent (WBI 18/11)

RDP Intl reported 16/11: PM Cavaco Silva offly inaugurated new studios. New means at disposal already enable extend duration of bcs; new xmtrs soon in opn, first being for Eu in Dec. RDP Intl 15/11 ran excerpts from studio inaug speeches. Dr Arlindo Carvalho, chmn of BOD of RDP: New xmtr, aerials will from end of first quarter next year, enable us to reach Af w/G reception. In prsonnel sector, RDP expects spend some 7 gigaescudos next few years on improving training facilities. PM Cavaco Silva emphasized that there should be no state monopoly on being, DS or ES.

RDP Commercial R reported 16/11: Free radios are protesting against regs for being forcing them to stop being as from 24/12. Tomorrow abt 200 pirate radios'll be simultaneously nationally from TSF R Jornal in Lisbon. But a few of the 200 will not prticipate and object to being included in list of such (WBI 25/11)

RDP Intl, here divided into four sexions, Eu, Af, ME/As, Ams. At weekends & certain times weekdays allsvcs are //. Eu in PT: 06-0645 M-F 11840 6130. 0645-08 M-F 11800 9630 6130. 08-13 11800 9740 (Sa.Su.) [unclear if Sa/Su meant to apply to 9740 only]. 13-1410 Sa/Su 11800 9740. 17-18 11800 11740 9740. 18-20 11800 (M-F) [meaning M-F applies to 11800 only?], 11740 9740. Other langs: M-F 20-2030 EG, 2030-21 FR, 21-2130 IT on 11740.

Af in PT: 09-10 Sa/Su 21700 15250. 10-12 21700 15265 (M.F) [Monday and, or Monday to Friday, and applies to 15265 only?] 15250. 14-15 Sa/Su 15765 [sic, means 15265 presumably] 15250. [oops:] 12-14 Sa/Su 21700 15250. 15-17 daily 15265 15250. 17-19 15265(Sa/Su) 15250 11840 (M F) 11820. 19-20 Sa/Su 15265 15250 11840 11820. Other langs: 19-1930 M-F EG 15250 11820, 1930-20 FR same.

ME/As: PT to Timor Sa/Su 08-10 15225, 10-12 M-F 15225. PT 15-16 M-Sa 15210. EG 16-1630M-F 15210.

Ams in PT: 00-0130 11840 9705 9680 9635. 0130-02 same plus 9600. 02-0230 Sun/Mon same 5. 09-10 Sa/Su 15250. 10-12 15250. 12-13 Sa/Su 15250. 13-20 Sa/Su 15250 15140. 22-24 11840 9705 9680 9635 9600. EG Tue-Sat 02-0230 [sic] on same 5 as PT. [However, cross ref still shows 0230-03, and confirmed by gh at that time, best on 9705]. Total output 150 hpw, led by PT estimated, unable to calculate accurately, at 133 hpw (WBI 9/12) Difficulty arises from so much overlap in PT target areas, fqs, svcs, different on diff days of week (gh)

ST. VINCENT CANA nx agcy reported 22/11: Dispute betw Barbados and St V over use of TV ch 9 referred to ITU after Carib community ministers fortelecomms failed resolve in Grenada meet last week. Dispute has dragged on for nearly two years; began when Carib Bcing Corp, Barbados switched from ch 3 to ch 9, despite protests of private SVG-TV which'd used 9 since 1975. St Vincent & Grenadines citizens report QRM from Barb since change (WBI 2/12)

SAMOA WESTERN RA, Melbourne reported 15/11: Tenders called for first stage of multi-million \$ project to improve bcing facilities. R Apia says involves re-location of main xmtrs to new site, at cost of nearly A\$800K to be met by Au. Work to begin in Jan, commissioning planned for June. 2nd stage, bldg new complex for natl bcing corp. Design work calls for 3 ch, natl pgms, commercial, and stereo svc. R Apia says Au committed 1.8 M\$ for new studios (WBI 18/11)

SAN MARINO Govts of SM and Italy negotiating about intl SW stn w/two 100 kW xmtrs. Not only to be used by AWR but also for govtal bcs (Marcel Rommerts, Holland, Nov DSWCI SW News)

SOUTH AFRICA R RSA ancd 4/11: introing several xmsn change from 6/11: new daily in EG for India/Pak/FE at 13 on 21590 17755; US & Canada 14-16 on 25790. Ed note; first time R RSA beamed svc to As; new NAm xmsn in addn to 02-03. (WBI 11/11)

R RSA in EG: 02-03 Am 11760 9615 9580 incl DX Corner Mon 0235-0245 [appaently cut final hour due to morn xmsn on 25790]. 04-0415 ME/AF 11900 9585 7295. 11-12 Eu/ME/AF 21590 17755 11900. 13-14 As 21590 17755. 14-16 Eu/ME/AF/Am 25790 21590 21535 17755 11925. 18-19 Eu 17795 15365 incl DX Sun 1835-1845. 19-21 ME/AF 17795 15365 7295 incl DX Sun 1935-1945. Total output 228.35 hpw, led by EG 57.45 whilst Afrikaans/Dutch is only a sesquihour. (WBI 25/11)

SPAIN RNE Radio 1 reported 30/11: Dir Gen of Spanish R & TV^{*} Pilar Miro is appearing right now before Congress scrutiny committee to reply to questions from opposition groups, 20 Q in all, 6 of them re her resignation and another 6 connected w/her wardrobe expenses. Two refer to dismissal of RNE Spain at Eight nx bulletin editor Antonio Casado; also economic management. Miro said Casado dismissal due to his refusal to put out an ETA cque 2/11, adducing the professional conscience clause. Basque deputy took credit for his dismissal. (WBI 9/12) RNE Radio 1 reported 1/12: Reps of Olympic Organising Committee in Barcelona 1992 have reached agmt in NY w/NBC-TV for xmsn rites--totl cost 416 M\$, nearly 50 gigapetas (WBI 9/12)

SUDAN Monitoring 18-19 Nov: when checked at 1700 18/11, anmt in AR/EG/FR hrd on 1296 kHz: Sudan Bcing Svc from the Raybah stn. Now testing on 1296; please report reception quality to P O Box 572, Tech & Engineering Dept, Sudan Natl Bcing Corp, Omdurman. Same hrd 19/11, mixed w/mx until 1800 (WBI 25/11)

SURINAM RSI ancd 2/11 that from 7/11 its 17-1745 weekday bc'd be on 17835 ex-17840. In DT, Sranan Tongo, EG via Brazil (WBI 11/11)

SWEDEN R Sweden reported 17/11: Swedish R Co and Natl Swedish Telecomms Admn have decided that all SSB bcs will be stopped at yearend--too expensive to make permanent the trial bcs over SSB xmtr in Grimeton outside Varberg, ongoing since 1977, relaying pgm 1; closure fixed for 31/12 (WBI 25/11)

Sveriges R reported 25/11: Forn svc of SBC will start nx in Estonian in experiment basis this winter, from 5/12 until March 89. R Sweden reported 29/11: will be short nx of Sweden, Nordic, intl, M-F on MW 1179 1755-18. Chief of R Sweden Lars Hamberg justifies it as due to recent developments; Baltic states in our sphere of intrest, as is Poland (WBI 2/12) Sveriges R reported 5/12: Estonian starts today. Modest start w/short nx. Next step logically Latvian, Lithuanian, vy loose plans, expand xmsns (WBI 16/12)

Claude Stephenson of R Sweden visiting India again for 28th time Dec thru Feb. Several DXers meetings with him being set up. Due to limited time, no topic other than DX may be allowed to be discussed w/him (Asian DX Review 102)

TOGO RTT Inter, The Voice of the New Deal [what's that in French?], DS: 0525-0903 5047, 0903-1603 7265, 1603-0005 5047. Mostly in FR, but nx in EG daily 0930-0935, 1935-1947. Nx in Kabye/Ewe at 0730-0755. There may be variations at weekends. R Kara, The V of the New Deal, 0525-2305 on 6155/3222 (WBI 16/12) I suppose "/" means "or" (gh)

TONGA Tonga BC on new 6010.9 27/8 1035-1130* EG & Tongan talk, Pac mx, best on USB, 23222. Don't mix up w/R Inconfidencia or R America (Nobuyoshi Aoi, Japan, Nov DSWCI SWN) Last two on 6010.2-.7v, and 6010.9. Tonga not hrd every day, pehraps irreg xmsns. QSL says "we had no idea that our DX-10 could reach that far" (Aoi, elsewhere in same pub)

RA reported 10/11: Tonga's KingTaufa'ahau Tupou says his country wants own satellite link to upgrade comm system. Negotiating for orbital space for geo-stationary satl. Ants to rcv and xmit TV pgms, plus new radio xmtrs to be installed next year (WBI 18/11)

U A E Monitoring 7-9 Nov: Since 7/11, V of UAE, Abu Dhabi in main AR pgm 0615-1610 apx; 7/11 & 8/11 on 25909, 9/11 on 25900, //several other fqs, incl in part on 21515, and 17820 (WBI 11/11) Monitoring 14-16 Nov: Abu Dhabi w/ES in EG at 22-24, then AR 00-02 on 11965 9595 6170. EG incl pgms from Capital R, a local svc in Abu Dhabi at 2230-23 and UAE press review 2220 & 2320. Nx in AR at 0030-0035, 0130-0150. Reception rpts from oveseas requested to: UAE R from Abu Dhabi, P O Box 63, UAE. In past, stn only obs relayng DS in AR on SW 02-2130. Dubai also relays AR & EG on SW 0230-2050 (WBI 18/11) Monitoring 18-21 Nov: 18/1, Abu Dhabi w/ES in AR 16-17 on 11965 9780; DS in AR same time on 13605 11815 729. All 5 fqs, which op 16-2130 apx, linked 17-1708 for nx. Separate pgms from Abu Dhabi also obs 1406-1530, one on 25900 & 21515, other on 21735 & 17820; and at 11-1230 on the same pairs of fqs, which are in use apx 06-16 (WBI 25/11) 11m gone Dec D88 fq sked from Abu Dhabi: NAM in EG 22-02 [sic] 6170 9597 11965. Rest in AR: FE 02-04 on 15395 17705 21515. FE 04-06 on 17705 17820 21735. Eu 06-13 15135 17705 17820 17820 [given twice, error? or 2 xmtrs?] 21735. 13-2130 9780 11965. India & Pak 02-0630 9695, 16-2130 9695.

Dubai HF sked, dated Nov: NAM 0230-04 9640 11940 15435 17775. FE/Au/NZ 04-06 on 15435 17775 17830 21700. NAF 0615-2050 on 11730. Eu 0615-14 & 1645 [sic] on 15435 17865 21605; 14 & 1645-2050 [sic] 9640 11955 15300 (via Tetsuya Kondo, Yokohama, Japan, 17/12)

UKOGBANI [presumed country for unofficial radio items] WFRL [Wonderful Radio London?], Box 5, Hunstanton, Norfolk, PE36 [sic] 5AU, currently conducts worldwide tests on first Sat of month, & thruout that following week: 0000 Sat 9970 w/24h tape loop; 0800 Sun 7385. 0000 Wed 12108 w/24h tape loop. 0000 Sat on 11153 w/24h tape loop. 0900 Sun 6300. Prompt QSL card verie (Ken Baird, Scotland, Dec DSWCI SWN)

U S S R Tass reported 6/11 from Donetsk: regular Greek lang pgm introed at bc studio of Telmanndisrict, SE Ukraine, 6/11 on GOSR anniv. Spl edl board of reps of public orgs, rural workers, intellexuals, set up to prepare GK bcs for more than 100 kilogreeks living in Azov area (WBI 11/11)

All Union R reported 11/11 on Mayak: AUR now in position to prepar and bc on the air paid ads concerning new products, articles made at enterprises, coops, existence of surplus suplies of raw materials, goods and eqp for sale, also items wanted. Economic Chronicle hrd on all AUR svcs several times a day. Our correspondents can also prepare ads (WBI 18/11)

R Minsk, one hour earlier summer, ES: 1830-19 7115 6165 6090 6010, in BR M/T/T/F, GM S/W/S. 2130-22 BR daily 6185 6065, all target Eu (WBI 18/11)

R Moscow ENAM svc reported 19/11: Plan to set up first independent TV co in SU, alternativ to natl TV net. Architects of idea are group of TV journalists from 8 Sov cities. Neka TV registered in Oct and given own bank acct 700873, open for donations by Sov, forn sponsors. Proposed: Pres of new co, 34-yr-old Nikolay Lusenko is expert on eastern studies by profession. Aim of co is to come to a healthy rivalry w/govt-run TV co. New co backed by charity funds, coops, probably leading nxpapers. Budget will consist of donations from founders, revenues brot by co's own ad activities; filming at somebody's req; selling recorded TV pgms, i.a. Approach to info handling absolutely diff; bcs more dynamic, richer in contnt, more diverse in ideas. Two stages: first, circulate by videocassettes; then on separate channel. Two TV centres should be built, in Moscow and Leningrad, others later. Cost of entire project: \$80-160M.

Mayak reported 18/11: opening new ad/info feature Enterprise seeks partner. Send adtext, letter of guarantee to 127-327, Moscow, Radio, Mayak; phone inquiries 217-90-29. Instantaneous nationwide exposure! (WBI 25/11)

R Kiev ES in EG: 0030-01 AM 15455 15180 13645 9800 7400 7165; 03-0330 Am on same exc 7335 not 9800. 19-1930 Eu 7115 6165 6090 6010; one hourearlier summer. Total output 49 hpw, 28 of which is UK (WBI 25/11)

Kazakh R, Alma-Ata, ES, one hour earlier in summer, all in KZ on 5915 5035: 00-0030, 01-0130, 1330-14, 14-1430, 15-1530, 16-1630. Last 4 also on 6135 (WBI)

R Dushanbe, ES on 4975 & 1143: Dari 02-03, 1230-13, 14-15, 18-1830; Persian 1530-16, 1730-18 (WBI 25/11)

Azerbaijan R ancd 26/11: Do not believe rumours. Daily, 3x per day, from 27/11, at 03, 10, 17 gmt, bcs of authentic info on situation in city, decrees of commandant. Ed note: main fqs for pgm I are 4785 216, II on 4957.5. (WBI)

BBCM issued full R Moscow EG sked by time 2/12. Since this LN already so long; I can never print whole thing; and don't know where to start, I will just offer to extract specific langs of interest on request from the 18-page listing. Total output, not incl P&P, Magallanes is 1552.05 hpw, whopping (gh)

R Moscow reportd 1/12: From new year, RM will start Russian-lang bcs for a-broad. All those who know or study RS will be able to listen on 13, 16, 22, 25, 31, 41, 62, 215m. ME at 13, SEAS 20, WEu/Af 21, N&LAm 2330. Will inform listeners abt latest events in SU, abroad. Ed note: until now, all being in RS for a-broad, sometimes known as AUR Fifth pgm, directed solely at seamen, compatriots. Relays from DS, pgms specifically for seamen, emigrés (WBI 9/12) RMWS ancd RS pgms will be to Eu 21-22, 04-05, 10-12, 14-15, 18-19, 20-21 in 13, 16, 19, 25, 31, 41 mbs. Af 21-22, 04-05, 10-12, 14-15, 18-19, 20-21 on 16, 19, 22, 25, 31, 41. Au 02-05 & 10-12 on 16, 19, 22, 25. SEAS 02-0550, 10-12, 14-15, 18-19 on 13, 16, 19, 22, 25, 31, 41. NAm 2330-0030, 02-03, 18-19, 20-21 on 16, 19, 22, 31, 41, 49, 62m. LAm 2330-0030, 02-03, 18-19, 20-21 on 31, 41, 49, 62. RM reported 10/12: Per UNESCO info, there are over 200 megapeople who know Russian outside SU. RS is in third place after CH, EG (WBI 16/12)

RMWS reported 1/12: spoxemen for forn radio stns say SU has decided to stop jamming their bcs. Forn Ministry rep says SU favours free exch of info, and'd like to see no barriers in circulation of truthful info. Former practices in that area were born in coldwar times when USSR used to be subjected to a most hostile attitude. The Nation, Tel Aviv reported 2/12: Isr Forn min praised Moscow for decision to stop jamming K01 israel. SCDX reported 6/12: SU have stopped jamming many bcs of R Liberty. Per stn, jam to bcs in RS, BR, UK, three Baltic langs, 2 Afgh langs, ended 29/11. From 30/11, jam vs RS bcs of DW ceased, leaving just RFE target of major jamming. Monitoring 28 Nov to 7 Dec: obs confirm tht since 2100 28/11, R Liberty is apparently no longer jammed. R Free Afgh, w/pgms in Pashto & Dari carried on RL xmtrs, also clear. DW RS, KI to USSR in HB, YD, RS, other Sov langs, also no more jammed. RFE clear exc CZ & BG. Some jam still on VOA to Afgh in Pashto, Dari, DW in same; and bcs from other countries in BG (WBI 9/12) I hrd press reports mid-Dec that Czechjamming had also ceased (gh)

SU ceased jamming of RFE/RL, DW, KI. Recent monitoring reveals RFE in CZ & BG still jammed; remaining jam stns as of 16/12: CZ with CW call signs: GF on 15255, 15170, 7200. KM on 9705. KV on 21720, 15255, 11725. MG on 21530. NK on 9725, 7200. VM on 17835. Bulgarian: CB on 11825, 9555, 7190; TU on 9555. SU continues to jam V of Unity, cland stn for Afgh (Tetsuya Kondo, Yokohama, Japan, 17/12)

R Yerevan ES (during summer time some pgms may be one hour earlier); exact timing of nx in EG, FR, SP at end of some AM xmns subject to slight variation. Complete: 0330-0355 AM & 0355-04 EG NAm 15180 13645. Sun 08-0850 AM, 0850-09 FR Eu 15510 15485 15455. 15-1630 Kurdish 7390 6065 4990 864. 1630-1730 AM on same. 1730-1830 AR on same. 1830-21 AM/TK/Persian on same incl TK nx 1835-1845, Persian nx 1855-1905, AM nx 1905-1915. 2130-2150 AM & Sun 2150-22 AM, 2150-22 Mon-Sat FR Eu 11980 9480 9470 (7320 ancd). 22-2250 AM, 2250-23 SP LAm 11980 9480 9470 (WBI 9/12) Yerevan, 4040, 0238-0245 AM talk 19/9, 32332 (Frank A Baldwin, UK, DSWCI)

R Baku, ES, one hour earlier all pgms in summer. 0330-0415 Persian unconf. 11-1145 Persian 6135 6110. 12-13 TK, 13-15 Azeri, 15-16 TK, 16-17 AR all on 6135 6110 1296 (WBI 9/12)

Estonian R, Tallinn, ES, one hour earlier summer: 08-09 Sun FN, 09-0930 Sun SD (incl Esperanto 1st & 3rd Sun 0923-0928). 0930-21 Sun Estonian relay pgm I. 16-1630 M-Sa FN. 1630-21 M-Sa ET pgm I. 2105-2135 SD incl Esperanto 2128-2133 1st & 3rd Thu. 2135-2205 ET. All on 5925, some also on 1035 (WBI 9/12) Wasn't it Estonia that ancd as a mark of its independence, it would not observe DST?

Latvian R, Riga, ES, one hour earlier summer: Svc in Latvian titled "Amber Coast" radio = Dzintarkrasts. All on 5935, some also MW: Sun 08-0830 SD, 0830-09 LV. M/W/T/S 12-13 RS RStn Atlantika. 15-16 Sun RS incl 1510-16 Atlantika. 20-2050 Wed LV relay pgm I. 2020-2050 T/T/Sa SD. 2050-2103 T/W/T/S LV pgm I. 2103-2130 T/T/S LV mx pgm I. 2103-22 Sun LV. 2130-22 Wed LV. 2130-22 T/T/Sa SD (WBI 9/12) In reality 5935 probably continuous w/BBC extracting these since defined as ES rather than DS (gh)

R Vilnius, ES, all one hour earlier summer: 22-2230 LH & 2230-23 EG Eu 6100 666. 23-2330 EG & 01-0130 LH Am 15455 15180 13645 9765 7400 7165 6100 (WBI 9/12)

R Tashkent, ES in EG: 12-1230 & 1330-14 to As on 15455 11785 9600 9540 5945. Also has Urdu, Uighur, Hindi, Dari, Uzbek, Persian, Arabic bcs in the 1230-19 period on some of same fqs, or 6135 5915 5035 1200 7275 5975; 2330-24, 0030-01, 0230-03 on 5915 5035 or 9785 7335 5955 (WBI 9/12) vaguized by gh

3213.0, 3rd harmonic of Moscow 1, 1071 kHz, 12/10 1440 in RS talk, 23432; subsequently hrd daily e.g. 1516 (Mikhail P Timofeyev, Leningrad, DSWCI)

On 4610, new Soviet Eu stn 22/10 1533 RS M1 pgm daily, not Khabarovsk! (ibid)

New 4795, unID Sov 23/10 0630-0634 RS nx //4875, probably Petrozavodsk, 55555 (Timofeyev, ibid) 4795 0150-0205, Kharkov, 1/11 Mayak (Marcel Romerts, Neth ibid)

YUGOSLAVIA Tanjug reported 22/11: new SW centre for RY formally put into opn 22/11 in Bjeljina [sic], Bosnia-Hercegovina. 4 x 500 kW xmsn centr put into opn by Pres of SAWP Federal Conference Dr Bozidar Colakovic. RY bcs 12 hpd of pgms in 10 fornlangs; new SW centre construxion took 7 yrs (WBI 25/11) Tanjug reported 30/11: In past few days RY hrd in all worldparts. After almost ten years of construxion, Bijeljina [sic] bc familiar opening bars of song "Comrade Tito We Pledge to You" composed during struggle for natl libn. Best way of preventing spread of misinfo about Yugo. Dir of RY Dragan Markovic says about 5 kiloletter rcvd ea year from listeners. Chief Editor Pance Zafirovski says lack of funds has prevented serving nearest neighbours in their langs - HG, RM, TK, CZ, PL. 35 journalists, 70 xltrs, ancrs work in R Belgrade bldgs, still as tenants, under difficult condx. Aim for RY to start producing own SC nxcast from 1989 instead of relying on regional stns. RY ES also carried in Belgrade on FM now (WBI 9/12)

YEMEN WEST [oops] Since 7/12, YAR Radio's DS in AR from Sana'a obs on 5950, probably ex-6135, //9779.4. 4853 outlet not traced. YAR R now sked 03-0705, 10-2115 exc Fridays 03-2115 (WBI 16/12)

C L A N D E S T I N E C R A N N Y Al-Quds R Monitoring 26/11: AQR not obs ancg SW fqs 7460 & 4320 for several weeks. Continues bc mainly in AR; other langs greatly reduced. Anmts & brief comments in EG, HB. Daily output in each no more than 7 mins. Fq anmts also in Russian. Major AR nx at 1700. 3-min EG nx in brief has no fixed timing, hrd betw 09 and 10. *0700 exactly morn, *1400 aftn; but s/off varies morn betw 12 & 1230, eve 18 & 1830 (WBI 2/12) Any DXer ever get their SW?

Cubans in Africa (Spanish: Cubanos en Africa), aimed at troops in Angola; believed to hve ben in existense since mid-70s; 05-06 & 17-18 on 6045 (WBI 16/12) Agmt between RSA, Angola, Cuba may put an end to this (gh)

V of the People Monitoring 9-10 Dec: obs bc ing in AR 1355-1930 on 11825. Describes self as voice of the Libyan Natl Mvmt, hostile to Lib govt. Ancs xmsns on 11825 at 08-Fri, 11, 14, 18 (WBI 16/12)

V of Free Sahara Al-Siyasah, Kuwait reported 6/11 from Rabat: signs of fundamental change in rels betw Algeria and Polisario mvmt, in interests of fully normalized ties betw Alg & Morocco. Alg authorities have closed Polisario's major info office in capital, and suspended 30min daily bc. Ed note; VOFs pgm on R Algiers was sked 22-23 on 15215 9640; separate stn National R of the SADR on 1355 and 576 but adverse reception condx 8/11 prevented any obs on whether any of above bcs still being xmtd (WBI 11/11) Monitoring 9-14 Nov: National R of the Saharan Arab Democratic Rep, supporting Polisario front from xmtrs in S Algeria, continues hrd, 9/11 in AR f/in 2125-2300+ on 1355. Use of 576 not confirmed due co-ch QRM. VOFs pgm via R Algier SW not obs during chex since 8/11 (WBI 18/11)

R Patria Libre First trace 27/10 tho R Progreso, Havana mentd it as early as 11/10; hostile to Colombian govt, by Army of Natl Liberation, ELN, 0030-0115 in SP on 6766.25 (WBI 25/11) nominal 6760, varies a little, easily hrd in NAM (gh) RPL reported 22/11: govt is jamming this stn's signal in certain parts of country and a mily offensive unleashed against it. Col guerrillas are not trying to interfere w/media. RPL affirms that if people want to listen to this stn, govt must let them exercise right to be freely informed. We also demand govt make it clear whether it's going to treat the media as military targets (WBI 2/12)

R Farabundo Marti ancd 9/12 that from 11/12, Sunat 13 & 22; Mon-Sat still 12 & 23 (WBI 16/12)

La Voz Popular Monitoring 4-5 Nov: bc in support of Guat Natl Revly Unity org, obs 5/11 w/new bc in SP 0203-0307 on 3640-3650v; continues obs apx 2315 Fri to 0015 Sat on 6975-7013v (WBI 11/11) new bc is UTC Sat only (gh) Elsewhere in same ish of WBI gave range as 6970-7015v; first bc 0015 23/5/87, weekly "from mtns of Sierra Madre"; 2nd bc inag 21/10/88; first reported by R ReLoj, Havana, R Ven-ceremos, FMLN stn in El Salvador; times 2315-0020 Fri, 02-0305 Sat (WBI 11/11)

V of the Khmer sent folder and letter. Addr: KPRLF Office, P O Box 22-25, Ramin-dra PO, Bangkok, Thailand; or c/o FUNCINPEC Office, P O Box 12-1014, Suan Phlue, Bangkok. V/s Pol Ham, chief editor (Bjorn Fransson, SWB via Nov DSWCI SWN) Oftrn hrd in Denmark in 23 bc, 11-14 too on 6325 (Finn Krone, DSWCI ed)

V of the People of Kurdistan, 13-14 in Bahdinani KD, 14-1430 AR on 4040-4090v, constantly varying; ocly one hour later. Aira Dangi Gelli Kurdistana (WBI 16/12)

QSLs

Please reply to: Sam Barto
47 Prospect Place
Bristol, CT 06010

ABU DHABI: Voice of the United Arab Emirates

11965 p/d cd. in 1 mo. for \$1.00 v/s Ahmed Shouly. (Wallace-MA). p/d folder cd. w/ schedule in 28 ds.(Eckert-PA).

ALASKA: KNLS 12025 f/d cd. w/ schedule in 23 ds.

Personal note was rcvd.(Levison-PA).



ANGOLA: Radio Nacional de Angola 11955 f/d tri-lingual cd. in 50 ds. for a Pt rpt., cassette rpt. and \$1.00. v/s Carlos Ferreira, O Chefe do Departamento, Departamento de Intercambio e Opiniao Publica de Luanda.(George-NC). f/d cd. w/ personal ltr. in 2 mo. for 1 IRC.(Teruki).

ARGENTINA: Radio Nacional 6060 f/d cds.(one in SP and the other in EG) in 29 ds. for 2 IRCs.

Also rcvd. blue and white paper pennant and a personal ltr.(Archer-NC).

ARMENIAN SSR: Radio Yerevan 13645 f/d plain white slip of paper in 398 ds. for a RS rpt.(Archer-NC). Radio Moscow 4990 via Yerevan f/d cd. in 60 ds. for their FR Service transmission monitored while I was in Greece.(Rigas-IL).

ASIATIC RUSSIA: Radio Moscow 17860 via Chita f/d "Railway Terminal" cd. in 54 ds.(D'Angelo-PA). f/d cd. in 38 ds.(Stephens-AL). 15260 f/d cd. in 56 ds.(Paszkievich-WI). 17865 via Vladivostok same cd. as above in 56 ds.(Archer-NC). 17860 f/d "Nrylasnoye Rowing Canal" cd. in 5 wks.(Huniwell-NJ). 9875 via Khabarovsk f/d cd. in 56 ds.(Archer-NC). 9795 via Komsomolsk-on-Amur f/d cd. in 56 ds. w/ schedule.(Archer-NC).

AUSTRALIA: Radio Australia 7215 via Shepparton f/d "Platypus" cd. w/ pennant in 7 wks.(Huniwell-NJ). 9580 f/d cd. in 127 ds. for ms. (Kacir-MI). 17795, 15240 and 15160 via Shepparton and 17715 via Carnarvon f/d "Lyre-

birds" cd. w/ pennant and sticker in 53 ds.(Connor-PA). 9710 f/d "Bicentennial" cd. in 13 ds. w/ schedule and post-cards.(Teruki-JPN). 9770 via Carnarvon same cd. in 186 ds.(Archer-NC). VHP Naval Communications Radio Station Canberra 12982 f/d personal ltr. in 49 ds. for 1 IRC. This was after a f/up rpt. to the v/s N.R. Torrens, Officer in Charge.(D'Angelo-PA).

AUSTRIA: Radio Austria International 6155 f/d "Traditional Costumes" cd. w/ schedule in 2 mo.(Huniwell-NJ). 13730 same cd. in 61 ds. w/ schedule.(Levison-PA). 9875 cd. w/ schedule in 3 hens-AL).

AZERBAIJAN SSR: Radio Moscow 15260 via Baku f/d cd. in 37 ds.(Step-BELGIUM: Belgium Radio and Television (BRT) 9925 f/d "Interior View of the Tasel House" cd. in 1 mo.(Topoleski-PA). f/d "Wintergarden" cd. in 33 ds.(Levison-PA).

BOLIVIA: La Cruz del Sur 4875.3 f/d prepared cd. w/ personal ltr. in 28 ds. for a SP rpt. and ms. v/s Pst. Rodolfo Moya J., Director. (Archer-NC).

BORNEO (Kalimantan): RRI Banjarmasin 3250 * 2 n/d ltrs. w/ verification statement in 2 mo. for an IN rpt. and ms. v/s Drs. Asaari Jusuf, Kepala and Kadis Umardi. Also rcvd. station photos of staff. Addr: Jalan A. Yani Km 3,5., No. 234, Banjarmasin 70234, Kalimantan Selatan.(allen-OK).

BRASIL: Radio Cultura de Sao Paulo 17815 f/d cd. in 68 ds. for a PT rpt. Sticker and station info. sheet was rcvd. (Levison-PA). RadioHras 11745 f/d cd. in 126 ds. v/s Nara Ferreira, Correspondence Service.(Topoleski-PA). 17730 f/d cd. w/ site and schedule in 42 ds. for 1 IRC.(Wakisaka-MD).

To Mr. Rowland Archer
This verifies your reception
report on our transmission
Date Sep. 10, 1987
Time 02:29-02:59 GMT
Frequency: 13045 Khz
RADIO YEREVAN

QUERO-ECUADOR
RADIO PANAMERICANA
EL REY DE SINTONIA EN SU PUNTO
1595 Khz. ONDA LARGA
3290 khz. ONDA CORTA
90 M.BANDA INTERNACIONAL
1984

Señor Rowland Archer
Estimado Amigo:
Nos llenamos de onda satisfacci6n al sernos escuchados fuera de nuestras fronteras.
A tiempo de agradecerle por tan hermoso recordatorio, y mucho m6s el inter6s que Ud. tiene de escuchar nuestros programas por tal motivo le enviamos esta tarjeta LOGO-TIPO para su mejor ubicaci6n de la Emisora.
Aprovechamos esta oportunidad para reiterar nuestros saludos cordiales y nos despedimos muy atentamente.
Pst. Rodolfo Moya J.
DIRECTOR
WAKISAKA MD

BRASIL: Trans World Radio 15385 f/d
 * "Antenna" cd. w/ sticker in 2 mo.
 (Huniwell-NJ). **Radio Nacional de Macapa** 4915 n/d form ltr. w/ post-card and schedule in 7 mo. for a PT rpt. and ms. v/s Maria Lucia Rodrigues Manfredo, Asst. Admin. (Palmerheim-MN). **Swiss Radio International** 17730 via **Brasilia** f/d cd. w/ site in 2 wks. (Field-MI). same cd. in 2 wks. w/ site. (Rigas-IL). **Radio Nacional da Amazonia ZY365** 6180 f/d prepared cd. w/ personal ltr. in 35 ds. for a PT rpt. and \$1.00. v/s Eudson Monteiro Lima. (D'Angelo-PA). **Radio Aparecida** 5035 f/d "Studio" cd. in 40 ds. for a PT rpt. and \$1.00. (Wakisaka-MD).
VERGARIA: Radio Moscow 9700 via **Sofia** f/d cd. * w/ schedule in 30 ds. (Connor-PA). **Radio Sofia** 11720 f/d cd. w/ schedule in 1 yr. (Connor-PA). 11750 and 6070 f/d cd. in 321 ds. w/ schedule. (Levison-PA). 7115 via **Plovdiv** f/d "Church" cd. in 357 ds. (Kacir-MI). f/d cd. in 2 mo. (Huniwell-NJ).

RADIO



1505 Khs. Onda Larga
 W. Kin. Unica Corte
 De Su Banda Intermodular
PAN AMERICANA

Edif. del Bay de la Libertad, de su punto
 Direccion: CARABIA MORTALYS No. 101 - Queso - Ecuador

Quito, Octubre 22 de 1968.

Señor:
 James L. Berto,
 Bristol, Connecticut
 U.S.A.

De mi consideracion:

En primer lugar recibí un valeroso saludo de ustedes, así como también el de sus familiares, por ser un momento realmente una reunión de todos los amigos que muy generosamente nos hicieron llegar sus reportajes de atención, es por eso que me permito hacerle las más cordiales y afectuosas saludos y cada uno de los amigos que se han identificado con nosotros.

Le diré que en recepción tiene fecha 20-10-1968 que me dió mucho gusto en contestarle en ese momento, y solo espero le haga una más aguda ya que soy una persona joven de edad adulta y me gusta mucho de que ustedes me hagan llegar sus reportajes y me gustó mucho el programa que me hizo llegar. Me gustaría mucho que siguiera enviándonos sus reportajes, pero me gustaría mucho que me hiciera saber si tiene algún programa que me pueda hacer llegar en el futuro. Me gustó mucho el programa que me hizo llegar y me gustó mucho que me hiciera saber si tiene algún programa que me pueda hacer llegar en el futuro. Me gustó mucho el programa que me hizo llegar y me gustó mucho que me hiciera saber si tiene algún programa que me pueda hacer llegar en el futuro.

Me gustaría mucho que me hiciera saber si tiene algún programa que me pueda hacer llegar en el futuro. Me gustó mucho el programa que me hizo llegar y me gustó mucho que me hiciera saber si tiene algún programa que me pueda hacer llegar en el futuro. Me gustó mucho el programa que me hizo llegar y me gustó mucho que me hiciera saber si tiene algún programa que me pueda hacer llegar en el futuro.

Muy atentamente

 Luis E. Llerena E.
 Director de Radio Panamericana

VERIFICATION SIGNERS: VL8T 2325 Sue Camilleri, Officer Producer. **Ondas del Huallaga** 3330 Flaviano Llanos M., Director. **Radio Botswana** Makgekgenene, Chief Engineer. **Radio Douala** 4795 Landry Piamy. **Radio Banqui** 5035 Michel Bata, Directeur des Services Techniques. **La Voz del Llanco** 6116 Gloria Rodriguez R., Administradore. **La Voz del Upano** 5040 Suor Dolores Palacios C., Secretaria. **KFB5** 9645 Erma I. Kapileo, QSL Secretary. **Radio Encarnacion** 11945 Prof. Alejandro Lapierre. **FERA** 17780 Mrs. Doreen Dugasse, QSL Secretary.

NOTES: Tom Laskowski writes that he has just finished college and now has more time for DXing and QSLing. He recently purchased a new ICF-2010 and is having a ball. **Kevin Atkins** writes that the high voltage QRN was so bad that he actually sold his home and moved. He complained to the power company and to the FCC to no avail. The day after Kevin moved he received a QSL. Omen??? **Guy Connor** sent in contributions to last months QSL Column. He is a new contributor. Keep reporting each month... **Sam Paul Brouillette** states that he has been using an ICOM R71A for the past four years with good results. His only problem has been the lithium memory battery. Hope the DX has been good to you Paul. Received a very nice letter from **Harold Levison** who stated that he has recently received some very beautiful and picturesque photo albums from Poland and Czechoslovakia. Yes, they are a nice treat to receive. I have a beauty from Switzerland...Sam.

Flag of Freedom Organization of IRAN

Cerfaul 20, rue de Condorcet
 75008 PARIS, FRANCE
 Tel: 47620881 - Telex: A.L.E. DDH613717F

10th October, 1968

Mr. Sam Berto
 47 Prospect Place
 Bristol, Ct. 06010
 U.S.A.

Dear Mr. Berto,

Thank you very much for your interest in Radio Flag of Freedom of Iran.

We are currently broadcasting daily on: 15360 KHZ (19 m) and 9045 KHZ (31 m) in the morning (7.00 to 8.55 a.m. local Tehran time) Tehran time is 3 1/2 hrs. behind GMT, and 11615 KHZ (23 m) and 9045 KHZ (31 m) in the evening (local Tehran time 20 to 21.55 p.m.)

We would be most grateful to receive your comments on the quality of reception in your locality as well as on the contents of the program.

Enclosed please find a copy of of Guide for Action, the Strategy of a Popular Struggle as well as what is FFO leaflet which may serve to give you a better picture of the activities of our organization for the liberation of our country and what we are aiming at.

In anticipation of hearing from you soon.

Sincerely yours,

Dr. Manouchehr Ganji
 Secretary-General

CAMEROON: CRTV - Yaounde 4850 f/d form ltr. in 3 mo. for 2 IRCs. v/s Florent Etoya Eily, General Director. (Teruki-JPN).

CANADA: CFCX 6005 p/d cd. w/ personal ltr. in 9 ds. v/s John Stubbs, Operations Manager. (Stephens-AL).
BBC 9590 n/d "Antenna" cd. in 2 mo. (Huniwell-NJ).
Radio Japan 5960 f/d "Autumn in Kyoto" cd. in 2 mo. (Huniwell-NJ).

CAPE VERDE ISLANDS: Radio Nacional 3931 f/d cd. in 3 mo. on my 5th try for a P^r rpt. (Field-MI).

CHINA, PEOPLES REPUBLIC OF: Radio Beijing 11715 f/d cd. in 40 ds. w/ sticker and schedule. (Levison-PA).
15180 f/d cd. w/ paper cuts in 40 ds. (Connor-PA).
Voice of Puijiang 3280 Chinese cd. in 70 ds. for an EG/CH rpt. and 2 IRCs. (Wilkins-CO). f/d cd. in 1 mo. via Beijing. (Field-MI).

CLANDESTINE: La Voz del CID 9940 f/d cd. in 61 ds.

* for a SP rpt. and IRCs. (D'Angelo-PA). Iran Flag of Freedom Radio 9045, 9024, 9035 and 7080 p/d ltr. in 4 mo. w/ political material very similar to what is mailed out by the VOCPI. v/s Dr. Manouchehr Ganji, Secretary General. (Barto-CT).

COLOMBIA: Radio Cadena Nacional 6160 p/d personal ltr. in 208 ds. for a SP rpt. v/s Antonio Pardo Garcia, Gerente de Produccion. Letter was rcvd. after mailing the f/up rpt. (D'Angelo-PA). Radio Guatapuri 4815 p/d ltr. w/ prepared cd. in 270 ds. after a f/up rpt. in SP w/ ms. v/s Gustavo Cuello Diaz, Jefe de Programacion. (Wilkins-CO).

COMOROS: Radio Comoros 3331 f/d cd. in 2 mo. on my second try for a FR rpt. (Field-MI).

* Nice QSL. Don't see too many of these...Sam.

COSTA RICA: TIPC 5055 f/d cd. w/ pennant and sticker in 30 ds. for 1 IRC. (Connor-PA).
Radio for Peace International 13660 f/d cd. w/ schedule in 2 mo. for 1 IRC. v/s James Latham, Station Manager. (Overcamp-SC)...Nice to hear from you again...Sam. 21555 f/d cd. in 61 ds. (Levison-PA). Radio Impacto 5030 n/d personal ltr. in 43 ds. on my third try for a SP rpt. and ms. Also rcvd. sticker and pennant. v/s Hector Requena C., Asesor General. (Name?)

CUBA: Radio Moscow 11840 v/d poster cd. in 1 mo. (Huniwell-NJ). 6000 f/d cd. in 1 mo. (Connor-PA). Radio Habana Cuba 11920 f/d cd. w/ personal ltr. in 6 mo. (Field-MI).

CYPRUS: BBC 15420 f/d "Map/Transmitter Photo" cd. in 23 ds. after a f/up rpt. w/ ms. (Stephens). Cyprus Broadcasting Co. 7205 and 9650 f/d "Map" cd. in 40 ds. for 1 IRC. (Renfrew-NY).



Señor
Kirk S. Allen
2237 Jane Street
Ponca city, OK 74601
Estados Unidos

Estimado señor: En efecto la Voz del Ariari es una radio estación perteneciente a caracol primera cadena radial. Agradecemos muchísimo y de manera sincera su reporte de atención así como también su cordial referencia que hace de nuestra estación radial.

Nos interesa mucho las noticias de radio escuchas extranjeros son valiosísimas para nosotros.

Transmisión desde Bogotía
Emisora Caracol radio
Frecuencia 4.755 KHZ
Banda 60 metros

La voz del ariari se encuentra en efecto en el meta otro departamento de Colombia frecuencia 5,991.5 KHZ banda de 49 metros. Nuestro país esta dividido por departamentos, municipios, intendencia, comisarías.

Por favor mis saludos a su esposa e hijos, espero les agrade la programación que escuchan de esta emisora. Bogotía es la capital de Colombia, centro político, ooultural, comercial e industrial de nuestro país.

Aquí se encuentra el santuario de Monserrate un cerro donde se llega por teleférico, funicular y además por tierra un sendero construido en escaleras para comodidad de la cantidad de gente que domingo a domingo sube a cumplir procesas al señor de Monserrate. Al frente esta el cerro guadalupe allí hay una gran imagen de esta virgen.

Y existen otros sitios de interes turístico como el salto del tequendama, Zoologico sante cruz, Museo Quinta de Bolívar, Museo Nacional., Museo del Oro, de Cobre etc...

Sus datos e informaciones son correctos y nos complace altamente que radio caracol y la voz del ariari se escuche en la region donde Ud. y su familia habitan.

Cordialmente,

S. A.
Caracol radio
Bogotía
Colombia
Aparato aereo 8700

CZECHOSLOVAKIA: Radio Praha 11990 f/d "Vyssi Brod Monastery" cd. in 38 ds. (Levison-PA). 6055 f/d cd. in 1 mo. (Connor-PA). 17705 f/d cd. in 30 ds. (Renfrew-NY). OLB5 3170 p/d "OMA Observatory" cd. in 5 mo. for ms. (Wallace-MA).

DOMINICAN REPUBLIC: Radio Mil 11700 via Radio

* Clarín p/d personal ltr. in 4½ mo. for a SP rpt. and \$1.00. v/s Pedro Justiniano P., VP Director. (Palmerheim-MN).

DUBAI: UAE Radio and Television Dubai 11940 f/d "Great Circle Globe" cd. w/ pennant in 3 wks. (Huniwell-NJ). 21605 same cd. w/ pennant in 62 ds. (Hazzard-PA). f/d cd. in 5 wks. w/ pennant and schedule. (Barto-CT).

ECUADOR: Radio Nacional Espejo 4680 n/d personal ltr. in 8 mo. for a SP rpt. (Field-MI). prepared cd. w/ personal ltr. and postcard in 275 ds. for a SP rpt. and ms. v/s Marco Caicedo. (Wilkins-CO). n/d personal ltr. in 248 ds. w/ postcard for a SP rpt. and 1 IRC. Postal strike caused delay in answering rpts. (MacHarg-IN). HCVN7 La Voz del Napo 3279.8 f/d cd. in 1 mo. for a SP rpt. and ms. Sticker and pennant rcvd. v/s Ramiro Cabrera. (Palmerheim-MN). HCBJ 17790 f/d cd. in 12 mo. for a rpt. that I never sent (???) (Renfrew-NY)...Sometimes I think I get those too...Sam. 6230 f/d cd. in 32 ds. (Connor-PA).



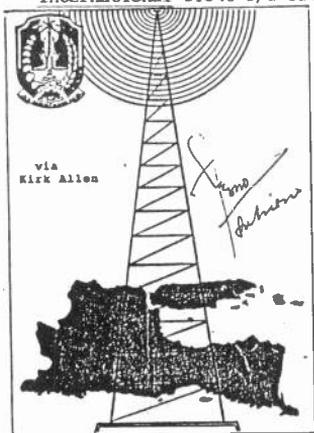
FRENCH GUIANA: Radio Japan 11730 and 15350 via Montsiner n/d cd. in 1 mo. (Huniwell-NJ). 9685 n/d "Persimmon's over Storehouse" cd. in 1 mo. (Huniwell-NJ).

Radio France International 9800 via Montsiner f/d "Centre Ondes Courtes Guyane" cd. w/ schedule in 61 ds. for a FR rpt. and ms. (Stephens). 15300 f/d cd. in 9 wks. w/ schedule. (Barto-CT).

GABON: Africa No. One 15475 n/d cd. in 63 ds. for \$1.00. (Weber-OH). Radio Japan 11800 via Moyabi n/d cd. w/ schedule in 21 ds. (Kacir-MI). n/d "Prehistoric Figures" cd. in 1 mo. (Huniwell-NJ). Radio France International 9790 p/d cd. in 2 mo. (Huniwell-NJ).

GEORGIAN SSR: Radio Moscow 7320 via Tbilisi f/d cd. in 2 mo. (Renfrew-NY).

GERMANY, DEMOCRATIC REPUBLIC OF: Radio Berlin International 21540 f/d cd. w/ ltr. and schedule in 2 mo. (Teruki-JPN).



pedoman acara

RADIO KHUSUS PEMERINTAH DAERAH
TINGKAT I JAWA TIMUR
GELOMBANG 98.36 M / FREK. 3.05 MC
JL. PAHLAWAN 110 TLP. 45061 - PS. 155 SURABAYA

EQUADOR: HCV45 Radio Panamerica de Quero 3290 p/d ltr. w/ * pennant in 1 yr. for a SP rpt. v/s Luis G. Llerena B., Sub-Gerente-Coordinador. (Barto-CT). Radio Catolica Nacional 5055 n/d ltr. w/ pennant and schedule in 27 ds. for a SP rpt. and ms. v/s Padre Antonio Arregui, Director General. (Stephens-AL).

EL SALVADOR: Radio El Salvador 9587 f/d prepared cd. in 45 * ds. for a SP rpt. and ms. This was for a 1984 reception. (Allen-OK)...Very nice!

ENGLAND: Voice of America 7200 via Wooferston f/d cd. in 12 ds. (Stephens-AL).

EQUATORIAL GUINEA: Radio Nacional 6250 via Malabo p/d * "Coffee Plant" cd. in 7 mo. via the CA address. Rcvd. direct via Malabo. This is my 3rd QSL from this station! (Wilkins-CO)...See Fernando Poo below...Sam.

EUROPEAN RUSSIA: Radio Moscow 9890 via Moscow f/d "Bolshoi Theatre" cd. w/ ltr. from Mrs. Eugenia Stepanova in 43 ds. (Weber-OH). 13710, 15200 and 15320 f/d cd. in 60 ds. (Renfrew-NY). 15530 via Serpukhov f/d cd. in 40 ds. (Renfrew-NY). 15470 and 17765 via Arnavir f/d cd. in 40 ds: (Renfrew). 17635 and 17600 via Tula f/d cd. in 40 ds. (Renfrew-NY). 15535 and 9775 f/d "Rowing CAnal" cd. in 54 ds. (D'Angelo-PA).

FERNANDO POO: Radio Nacional 6250 f/d cd. in 43 ds. * for a 1983 rpt. and \$2.00. (Allen-OK). 6249.5 f/d prepared cd. in 3 mo. for a rpt. to the CA address. Card was rcvd. direct from Malabo. (Palmerheim-MN).

Q S L

Verification Card
University of the South Pacific,
Station Lautoka, Suva, Fiji

To Richard F. Davis, Portales, New Mexico, USA

This is to confirm your reception of our transmission dated
24 August 1988, 0600 to 0700 hours UTC on a
frequency of 9070 kHz with _____ watts
(USB)

x *[Signature]*
Signature & Official Seal



GERMANY, FEDERAL REPUBLIC OF: Sudwestfunk 7265 f/d cd. in 80 ds. for 2 IRCs. (Hazzard-PA). Bayerischer Rundfunk 6085 p/d cd. in 23 ds. for 2 IRCs. (Weber-OH). (Stephens-AL).

GREECE: Voice of America Kavala 11925 f/d cd. in 10 ds.

GRENADA: Radio Free Grenada 15045 p/d ltr. in 28 ds. for ms. v/s George Grant, Station Manager. This was for a 1982 reception. (Stephens-AL).

GUAM: Adventist World Radio 17865 f/d cd. in 46 ds. for \$1.00. v/s Hannah Liu, Listener Services. (Michalenka-RI).

GUATEMALA: Radio Maya TGRA 2360 and 3325 f/d personal ltr. in 105 ds. for a SP rpt. and ms. v/s Baltazar Juan, Sub-Gerente. Also rcvd. station button and pennant. (D'Angelo). Radio Buenas Nuevas TGMJ 4800 n/d ltr. in 41 ds. for a SP rpt. and ms. (Stephens-AL).

HOLLAND: Radio Nederland via Flevo 6020 f/d cd. in 27 ds. w/ station sticker. (Huniwell-NJ).

HONG KONG: Radio TV Hong Kong 7290 p/d oversized cd. in 3 wks. for \$1.00. (Atkins-AL). p/d cd. w/ ltr. in 24 ds. v/s Thomas M.B. Lai. (Palmerheim-MN).

HUNGARY: Radio Budapest 9835 via Jaszbereny f/d cd. in 46 ds. w/ postcards. (Kacir-MI).

INDIA: All India Radio 4860 via Delhi f/d "Jain Temples" cd. in 34 ds. for 1 IRC. (Palmerheim-MN). 11620 f/d cd. w/ schedule in 47 ds. (Connor-PA).

皇家香港天文台
九龍彌敦道



ROYAL OBSERVATORY
HONG KONG
NATHAN KUAD, KOWLOON.
via Andy Wallace

In reply please quote : (36) in RUC 35/46

15 July 1987

Dear Sir,

Reference is made to your letter dated 4 July 1987.

We are pleased to confirm that you indeed have succeeded in intercepting our time signal broadcast at the frequency of 13020.4 KHz at 1300 UTC on 4 July 1987.

Our time signal is composed of 6 dots only. So the series of telegraphy transmissions after these 6 dots is not broadcast by our station.

Enclosed please find a list of schedules, frequencies and stations of our Broadcasts for Aircraft/Shipping and Broadcasts of Time Signals.

We thank you for being so considerate but there is no need for your airt stamp. It is therefore returned with this letter. We also thank you for your beautiful photo of the school house.

INTERNATIONAL WATERS: Radio New York

- * International 6240 f/d ltr. in 16 mo. for ms. v/s Allan Weiner.(Wilkins-CO). 1620 f/d ltr. in 10 ds.
- * for ms.(Palmerheim-MN). World Mission Radio 6215 via Radio Caroline f/d cd. in 10 wks. w/ coverage map.(Field-MI). f/d ltr. via CA while the cd. arrived via Holland.(Huniwell-NJ). f/d cd. in 43 ds. for 2 IRCs. v/s G. Stanley. (Allen-OK).

IRAQ: Radio Baghdad International

- 9875 f/d large folder cd. in 21 mo. after 2 f/up rpt. for several IRCs. (Eckert-PA).

ISRAEL: Israel Radio International

- 15591.9, 15485, 13625, 9010.5 and 11605 p/d "Logo" cd. w/ schedule in 2 mo.(Barto-CT). 7460 f/d cd. w/ schedule in 34 ds. (Connor-PA).

JAPAN: Radio France International 17710 via Yamata f/d cd. in 1 mo.(Huniwell-NJ). Radio Japan f/d "Autumn in Kyoto" cd. w/ schedule.(Levison-PA).

JAVA: RRI Bandung 3204 f/d personal ltr. in 42 ds. for an IN rpt. Large book and a schedule was rcvd. v/s EEM Suhaemi, Kepala Seksi Siaran.(Allen-OK). RRI Djakarta 9680, * 7269.9 and 11864.7 p/d cd. in 3 mo.(Barto-CT). RKIP Surabaya 4699 f/d BG cd. w/ station photo in 10 wks. for an IN rpt. and ms. v/s Ny. Koentardjadi.(Atkins-AL).

KAMPUCHEA, PEOPLES REPUBLIC OF: Voice of the People of Kampuchea 11938 f/d ltr. w/ postcard and station pennant in 7 mo. for 1 IRC.(Atkins-AL).

KIRGHIZ SSR: Radio Moscow 15500 via Frunze f/d cd. in 40 ds.(Renfrew-NY). f/d cd. in 43 ds.(Hazzard-PA). 12050 f/d "Lenin Library" cd. in 37 ds.(Weber-OH).

KIRIBATI: Radio Kiribati T3K1 14802 f/d cd. w/ tourist brochures in 45 ds. for ms. Also rcvd. ltr. signed by Kabure Momo. (Michalenska-RI).

LESSER SUNDAS: RRI Kupang 3385 p/d ltr. in 24 ds. for 2 IRCs. v/s Daud Jusuf Maro.(Paszw * Kiewicz-WI). p/d ltr. in 3 wks. for an IN rpt. and ms.(Atkins-AL). RKPD Sumbawa 3775 personal ltr. in 222 ds. after a f/up rpt. in IN for SASE. v/s Fatmah M.D.. Addr: Jalan Setiabudi 25A, Sumbawa Besar, Nusa Tenggara Barat.(Darling-PNG)...I believe Sumbawa is the Sundas. Please correct me if I am wrong...Sam.

LIBERIA: Voice of America-Monrovia 15600 f/d cd. in 7 ds.(Connor-PA).

MALI: Radiodiffusion Television du Mali 9635 f/d "map" cd. in 6 wks. for an EG/FR rpt. and 2 IRCs.(Teruki). Radio Beijing 9770 via Bamako f/d "Mao Memorial Hall" cd. w/ schedule in 28 ds.(Kacir-MI).

MALTA: Voice of the Mediterranean

- * 9765 f/d "Gozo and Comino" cd. in 3 wks. for 1 IRC.(Palmerheim-MN). same in 28 ds. for 3 IRCs.(Allen-OK). in 6 wks. for 3 IRCs.(Wallace-MA). f/d cd. in 50 ds. (Renfrew-NY). f/d cd. in 34 ds. for 1 IRC.(Connor-PA). f/d cd. in 28 ds. for 1 IRC. (Wilkins-CO).



FREE ANGOLA

FREE ANGOLA INFORMATION SERVICE

1650 K Street, N.W. • Suite 370 • Washington, D.C. • 20006-2102
(202) 775-0016

March 18, 1987

Ron Howard
P.O. Box 30060
Santa Barbara, CA 93130-0060

Dear Mr. Howard,

Based on the data which you mailed to us, it seems to indicate that you had, in fact, tuned into our radio broadcast "A Voz de Resistencia do Gale Negro". We have received numerous letters from radio enthusiasts who have tuned in at 4973 kilocycles, all of which have described similar programs.

Letters have been coming in from many different states within the United States and Canada. There have been letters from as far north as Massachusetts and Alberta, Canada; west as California and south as Florida.

In order to verify your particular reception of "A Voz de Resistencia do Gale Negro", please mail us a recorded tape from your listening post. Also, we do not have any verification cards at this office.

I will be happy to send you information on the situation in Angola. I would like to make you aware of our bi-monthly newsletter ENCHA NEWS. If you are interested, I would be glad to put you on the mailing list.

MAURITANIA: ORTM 4845 f/d ltr. in 2 mo. for a FR rpt. and ms. v/s Lemrabott Boukhary.(Atkins).

MEXICO: XPOQ 9680 f/d personal ltr. in 44 ds. for a SP rpt. and 1 IRC. v/s Griselda Sanchez Lopez. (D'Angelo-PA).

MOROCCO: Trans World Radio 7105 f/d cd. w/ schedule in 34 ds. (Connor-PA).

MONGOLIA: Radio Ulan Bator 12015 p/d "Logo" cd. w/ pennant in 3 mo. for 2 IRCs.(Wallace-MA).

MOROCCO: Radiodiffusion Television Marocaine 15335 f/d cd. in 35 ds. for 2 IRCs. v/s Tanane M'hammed Jamal Eddine.(Teruki). This may be from their Tangier transmitter...Sam.

NOTES: John Huniwell reports that he is very pleased with his new purchase of the R5000. He has logged 100 new stations since August 31. Good going...Sam. John Huniwell and Rich D'Angelo both requested the Radio Venceremos New York City address that was in the QSL Column for November. This was submitted by Renfrew in New York State. Please send in the address. I'm sure there are others who will benefit from this...Sam.

NEW BRITAIN: Radio East New Britain 3385 f/d cd. in 19 ds. for 1 IRC. v/s A.L. Rumina, Station Manager. (Teruki).

NEW IRELAND: Radio New Ireland 3905 p/d ltr. in 19 ds. for ms. v/s O. Malatana, Station Manager. (Laskowski-IN). f/d ltr. in 32 ds. for 1 IRC. v/s Kathleen Sakias, Assistant Station Manager. (Teruki).

NIGER: La Voix du Sahel ORTN 3260, 5020 and 9705 f/d cds. in 320 ds. w/ GDR postcard, Italian pocket calendar, photo of v/s and porno picture. This was for a FR rpt. and 2 IRCs(con't)

PLEASE NOTE: A few of you have written in requesting a listing of the abbreviations that we use in the QSL Column. They are as follows:

n/d (no data QSL) p/d (partial data QSL) f/d (full data QSL)...These refer to date, time, frequency, your name on the QSL, etc...

ms. (mint stamps) IRC (International Reply Coupons) cd. (card) ltr. (letter)

ds. (days) mo. (months) EG/SP/PT/IN (English/Spanish/Portuguese/Indonesian, etc...)

I sincerely hope the above listing helps you out....Sam.

v/s Yacouba Alwali. (Teruki)...Unbelievable!...Sam.

NORTH SOLOMONS: Radio North Solomons 3325 f/d ltr. in 35 ds. for 1 IRC. v/s S. Sawa, Station Manager. (Teruki).

NORWAY: Radio Norway International 21705 f/d cd. w/ stickers and schedule in 1 mo. (Teruki). 21700 f/d cd. w/ sticker in 41 ds. (Levison). 15310 f/d cd. in 1 mo. (Connor-PA). f/d cd. in 6 wks. (Huniwell-NJ).

PAKISTAN: Radio Pakistan 21660 f/d cd. w/ schedule in 15 ds. for 1 IRC. (Teruki). 11965 and 9461 via Islamabad f/d cd. w/ ltr. in 3½ mo. (Barto-CT). 4878.8 via Quetta f/d cd. in 3½ mo. (Barto-CT).

PAPUA NEW GUINEA/NEW GUINEA TERRITORY: Radio Gulf 3245 f/d ltr. in 48 ds. for 1 IRC. v/s Mark Auhoya, Manager. (Teruki). Radio Western 3305 f/d prepared cd. w/ personal ltr. in 34 ds. for a SASE. This after 4 tries: v/s Steven Gamini, Acting Manager. The v/s informed me in his ltr. that he has been transferred back to Port Moresby and the new v/s is Mr. Robin Wainetti. (Allen-OK). prepared cd. in 6 ds. for a test transmission. (Darling-PNG). 6080 f/d prepared cd. in 6 ds. for a test transmission. (Darling-PNG). Radio Western Highlands 3375 prepared cd. in 6 ds. (Darling). Radio Milne Bay 3365 p/d ltr. in 30 ds. v/s Mau Ilave. (Paszkievicz-WI). Radio Southern Highlands 3275 f/d cd. w/ ltr. in 53 ds. for 2 IRCs. v/s Jack Bata. (Paszkievicz-WI). f/d ltr. in 50 ds. for 2 IRCs. (Robinson-IL).

PERU: Radio Moderna 6364 f/d cd. w/ personal ltr. in 3 mo. after 3 tries for a SP rpt. on * an 83 reception. v/s Ricky Centurion Tapia, Relaciones Publicas por Estacion C Moyabamba. (Field-MI).

RADIO

ONDAS DEL HUALLAGA

OAX - 3N
1350 Kc.

OAX - 3Q
3330 Kc.

EN SU NUEVA DIMENSION
AL SERVICIO DEL DEPARTAMENTO
HUANUCO
PERU

DEPARTEMEN PENERANGAN
RADIO REPUBLIK INDONESIA
STASIUN RRI REGIONAL I KENDARI

Alamat : Jalan Lanoa No. 100 - Mandianga Kendari 93111
Telpun No 21730

Number :
Langkah :
Perihal :

From : Rengas 821 Of Station Kendari
To : Rowland Arthur
528 Northshore Park
Raleigh, NC 27613
USA

Dear Sir,

I have received your letter and understand your opinion. I have been very happy for your letter. Thank you for your letter.

And now I wish to talk with you some information about South East Solomon.

South East Solomon is consist of four regency, namely :

Regency of Kendari, Regency of Bona, Regency of Dobo, Regency of Kolaka.

The regency's have Capital:

Kendari is Capital Regency of Kendari, Jaha is Capital Regency of Bona, Mambasa is Capital Regency of Dobo and Kolaka is Capital Regency of Kolaka.

From the Jaha has been famous "The Fight Hero"
From the Kendari has been famous "The Old Kendari, The Old Kendari is very beautiful, in some time the sea called "The Second Hangman".

In the Kendari was some recreation place, namely :

- Recreation Batu Gung Beach
- Recreation Eastlake Beach

And don't you forget the Capital Kendari usually was called "The Stone City".

From the Bona has been famous "The Hill Kingdom of Bona".

There has recreation place too, namely "Airone Beach".

I hope you will be come to South East Solomon, and I will be guide you.

Finally, to send best regard to your family.

PERU: Radio Universo 6815 f/d cd. w/ personal ltr. in 3 mo. for a
 * SP rpt. 100 watts!: v/s G. Miguel Lorzanoti.(Field-MI). **Radio Amazonas** 5060 f/d cd. in 3 mo. after 23 tries(!) for a SP rpt. v/s Teddy R. Bendayan D., Director General. First heard in 1960 on 31 meters.(Field-MI).

PHILIPPINES: Radio Veritas 11820 n/d cd. w/ schedule and sticker in 50 ds.(Renfrew-NY). **VOA Poro/Tinang** 9660 f/d cd. in 10 ds.(Robinson-IL).

POLAND: Radio Polonia 9525 f/d cd. w/ ltr. and schedule in 2 mo.

QSL Verification

M. Rowland Archer

Nous avons le plaisir de confirmer votre rapport d'écoute. Many thanks for your reception report which we are pleased to verify.

Station Radio Milne Bay

Date 16th April 1985

Hours-Time 10.30 to 11.15

Freq. 3345 kHz

Meters 20 Metre Band

Watts 1000 W

[Signature]

Signature



v/s Miroslaw Lubon.(Teruki). 7125 and 7270 f/d cd. in 71 ds.(Levison-PA).

PORTUGAL: Radio Free Afghanistan 17730 and 21530 n/d cd. in 25 ds.(Renfrew-NY). **Radio Free Europe/Radio Liberty** 7155

via **Gloria** f/d cd. in 6 ds.(Renfrew-NY).

RIO MUNI: Radio Africa 9553 f/d cd. in 6 ds. via CA address.(Stephens-AL).



GREAT CIRCLE SHORTWAVE SOCIETY: Although somewhat belated I must make reference to a letter I received from Harold Cones regarding the demise of the Great Circle Shortwave Society. During the short time this society was in existence, I read with great pleasure the article from several of the old-time DXers. It was a fun organization which dealt with DXing during the 50s and 60s. Very sorry to see it go....Sam.

RIO MUNI: Radio Africa 9851.8 p/d yellow cd. in 8 ds. for ms.(Palmerheim-MN). 9553 ltr. in 112 ds.(Darling-PNG). **Radio Bata** 5004 f/d cd. in 7 mo.(Barto-CT).

ROMANIA: Radio Bucharest 11940 f/d "Scinteia Square Central Pavillion in Bucharest" cd. w/ schedule in 53 ds.(Healey-RI). f/d cd. in 80 ds.(Connor-PA).

SAIPAN: KPBS 15375 f/d cd. w/ schedule in 1 mo. for 1 IRC.(Teruki). 12025 f/d cd. in 55 ds. for \$1.00. v/s Erma Kapileo, QSL Secretary.(Weber-OH). cd. w/ sticker in 1 mo. for ms.(Wallace-MA). **KYOI** 11900 f/d prepared cd. in 2 mo.(Field-MI).

SCOTLAND: Weekend Music Radio 15044.6

* f/d ltr. w/ cd. and a personal note in 1 mo. for \$1.00. v/s Jack Russel.(Palmerheim-MN). 15045 f/d cd. w/ ltr. in 30 ds. for 1 IRC.(Paszkiwicz-WI). 15044.9 f/d ltr. w/ other printed material in 1 mo. for \$1.00.(Robinson-IL).

SOUTH AFRICA: Radio RSA 9615 f/d cd. in 27 ds. w/ schedule.(Levison). 9580 f/d "Zebras" cd. in 77 ds.(Kacir-MI).

SPAIN: Radio Free Europe/Radio Liberty 7155 and 9565 via **Playa de Pals** f/d cd. in 6 ds.(Renfrew-NY).

SRI LANKA: Trans World Radio 11920 f/d ltr. in 9 wks. for 1 IRC. v/s

vic Flaming.(Palmerheim-MN). **SULAWESI: RRI Manado** 3215 p/d personal ltr. in 3 mo. for an IN rpt. and ms. v/s Daniel Narande, Kepala. This after 6 tries. Correct Addr: Jalan TNI. 6-No. 12, Manado, Sulawesi * Utara, 95124. (Allen-OK). **RKPD2 Luvu** 3654.3 personal ltr. w/ photo in 29 ds. for an IN rpt. and \$1.00. v/s John Ibrahim.(Bryant-OK).

SUMATRA: RRI Bukittinggi 4910.5 f/d prepared cd. in 28 ds. for an IN rpt. and \$1.00.(Bryant) **SWITZERLAND: Red Cross Broadcasting Service** 15570 sticker and schedule in 2 mo.(Levison). **SRI** 3985 cd. in 70 ds. via their French Dept.(Renfrew). 9725 via **Sottens** f/d cd. in 2 wks.

(Renfrew-NY). 9535 via **Sarnen** f/d cd. in 2 wks.(Renfrew-NY).

TAIWAN: Voice of Free China 11740 f/d cd. w/ schedule in 47 ds.(Levison-PA).

TIMOR: RPDT2 Timor Tengah Selatan * atan 2580 f/d personal ltr. w/ view cards in 27 ds. for an IN rpt. and \$1.00. v/s Pieta Tallo.(Bryant-OK).

TURKEY: Voice of Turkey 9445 f/d cd. in 60 ds. w/ schedule and sticker.(Levison).

QSL Verification Card

Station RADIO UGANDA

To Richard E. Davis, Portales, New Mexico

This is to confirm your reception of our transmission dated 9 April 1984 at 0340 hours UTC on a frequency of 5027 kHz with 10,000 watts.

The broadcast was from our transmitter at Kampala, Uganda.

SPAIN: Radio Free Europe/Radio Liberty 7155 and 9565 via **Playa de Pals** f/d cd. in 6 ds.(Renfrew-NY).

SRI LANKA: Trans World Radio 11920 f/d ltr. in 9 wks. for 1 IRC. v/s vic Flaming.(Palmerheim-MN). **SULAWESI: RRI Manado** 3215 p/d personal ltr. in 3 mo. for an IN rpt. and ms. v/s Daniel Narande, Kepala. This after 6 tries. Correct Addr: Jalan TNI. 6-No. 12, Manado, Sulawesi * Utara, 95124. (Allen-OK). **RKPD2 Luvu** 3654.3 personal ltr. w/ photo in 29 ds. for an IN rpt. and \$1.00. v/s John Ibrahim.(Bryant-OK).

SUMATRA: RRI Bukittinggi 4910.5 f/d prepared cd. in 28 ds. for an IN rpt. and \$1.00.(Bryant) **SWITZERLAND: Red Cross Broadcasting Service** 15570 sticker and schedule in 2 mo.(Levison). **SRI** 3985 cd. in 70 ds. via their French Dept.(Renfrew). 9725 via **Sottens** f/d cd. in 2 wks.

QSL

M. RICHARD A. D'ANGELO

Nous vous confirmons votre réception

du 22 11 1987

de 1725 à 1800 G.M.T.

sur la fréquence de 4975 KHz de notre

émetteur d'une puissance de 250 KW.

امانة البحر المتوسط الدولية

LEBEO MEDITERRANEE INTERNATIONALE

ق.م.ب. عمان

TAWOER

P. M. L. S. n. m. capital de 16.000.000 de - 2, Rue Emman. - Tangier (Maroc) Tél. 363.83 - 367.66 - Télec 32711



RADIO IMPACTO

100 kilowatts cada hora
4.130 kilowatts cada hora

No. A-427

24 de Junio de 1988

Señor
Rowland Archer, Jr
5324 Hawthorne Park
Raleigh, NC 27617
UNITED STATES OF AMERICA

Estimado Señor:

Mos es grato contestar su carta del 5 de junio de 1988, en la cual nos informa que sintonizó nuestra emisora Radio Impacto el 19 de diciembre de 1987, en la frecuencia de 5.030 KHz de 11:27 a las 12:00 hora de Costa Rica.

Adjunto encontrará una calcomanía y un banderín de la emisora como muestra de nuestro agradecimiento por su gentil sintonía. Además le enviamos una tarjeta postal de nuestro país para que tenga una idea del lugar de donde le escribo.

Mos gustaría saber si en otra oportunidad a vuelto a sintonizarnos.

A gradecemos su sintonía, cordialmente

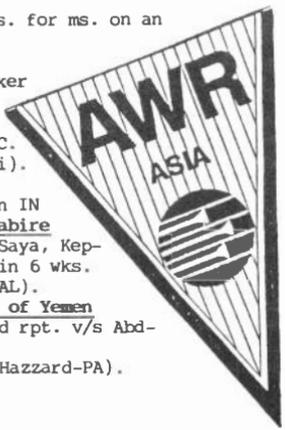
[Handwritten signature]
HECTOR REQUEMÉ
Asesor General

/ldz
Anexo Calcomanía, banderín y una tarjeta postal.

UKRAINIAN SSR: Radio Moscow 11750 via Lvov f/d cd. in 54 ds. (D'Angelo). 7290 f/d cd. in 40 ds. (Renfrew-NY). f/d cd. in 1 mo. (Connor-PA). 15135 via Vinnitsa f/d cd. in 40 ds. (Renfrew). 9720 f/d "Rowing Canal" cd. in 2 mo. (Huniwell-NJ). 9700 f/d cd. in 40 ds. (Legge says possible site is Sofia, Bulgaria) (Renfrew-NY). 9890 f/d cd. in 30 ds. (Connor-PA). 17645 and 21630 via Starobelsk f/d cd. in 40 ds. (Renfrew). 21630 f/d cd. in 6 wks. (Huniwell-NJ). 11675 via Simferopol f/d cd. in 54 ds. (D'Angelo-PA). 7165 and 7195 f/d cd. w/ schedule in 1 mo. (Connor). 7115 via Ivano-Frankovsk f/d cd. in 1 mo. (Connor). f/d cd. in 43 ds. (Hazzard-PA). 7110 f/d "Lenin Library" cd. in 1 mo. (Huniwell-NJ). 17820 via Kiev f/d cd. in 43 ds. (Hazzard). Radio Kiev 11790 f/d cd. w/ schedule in 108 ds. (Levison-PA).

USA: WMLK 9465 f/d ltr. in 81 ds. for ms. v/s Elder Jacob O. Meyer. (Weber-OH). **WINB** 15145 f/d cd. w/ schedule in 33 ds. for ms. (Connor). **Voice of America** 11760 and 15205 via Greenville f/d cd. in 7 ds. (Connor-PA). 5995 f/d cd. in 7 ds. (Stephens). 17800 via Bethany f/d cd. in 8 ds. (Stephens). **Voice of Free China** 5985 via WYFR f/d "Float" cd. w/ schedule and sticker in 29 ds. (Levison-PA). f/d "Control Room" cd. in 51 ds. (Levison). f/d "Parade" cd. in 48 ds. (Levison).

- USA (Pirate): Radio Mauser Worldwide** 7520 f/d paper cd. in 3 wks. for ms. on an 87 reception. (Palmerheim-MN).
- USSR: Radio Moscow** 17880 p/d cd. in 33 ds. (Levison).
- VATICAN: Radio Vatican** 17879 f/d "Antenna" cd. w/ ltr. and sticker in 4 mo. for ms. v/s Xavier Rajan S.j. (Palmerheim-MN). 6150 and 9605 f/d cd. in 4 mo. (Hazzard-PA). 17865 f/d cd. w/ schedule and Vatican map in 1½ mo. for a JP rpt. and 1 IRC. (Teruki).
- VENEZUELA: Radio Capital** 4850 f/d cd. in 166 ds. for a SP rpt. and 1 IRC. (MacHarg-IN).
- WEST IRIAN: RRI Pak-Fak** 4789.9 f/d personal ltr. in 1 mo. for an IN rpt. and ms. v/s Abdul Rahim Dahlan. (Palmerheim-MN). **RRI Nabire** 5055.4 f/d ltr. in 3 wks. for an IN rpt. and ms. v/s Ismail Saya, Kepala Seksi Siaran. (Atkins-AL). **RRI Manokwari** 3986.2 f/d ltr. in 6 wks. for an IN rpt. and ms. v/s Abdul Rachim, BA, Kepala. (Atkins-AL).
- YEMEN, PEOPLES DEMOCRATIC REPUBLIC: Peoples Democratic Republic of Yemen Broadcasting Service** 7190 p/d pink cd. in 423 ds. for a taped rpt. v/s Abdulla N. Yeslam. (Stephens-AL).
- YUGOSLAVIA: Radio Yugoslavia** 9660 f/d cd. in 45 ds. for \$2.00. (Hazzard-PA).



RADIO MAYA de Barillos TGBA
via Roland Archer
Barillos
Escobedo
Cantamala, C.A.

Frecuencias
2360 kc.
3325 kc.

Es grato confirmar su reporte del día 3 de MARZO de 1988 a las 5 horas, en la frecuencia de 2360 kc. Llama el gusto de escuchar el Programa transmitido en lengua K'anjelal. Le salud escuchado fue difundido por medio de un transmisor Collins de 1000 vatios de potencia, utilizando una antena Dipolo.

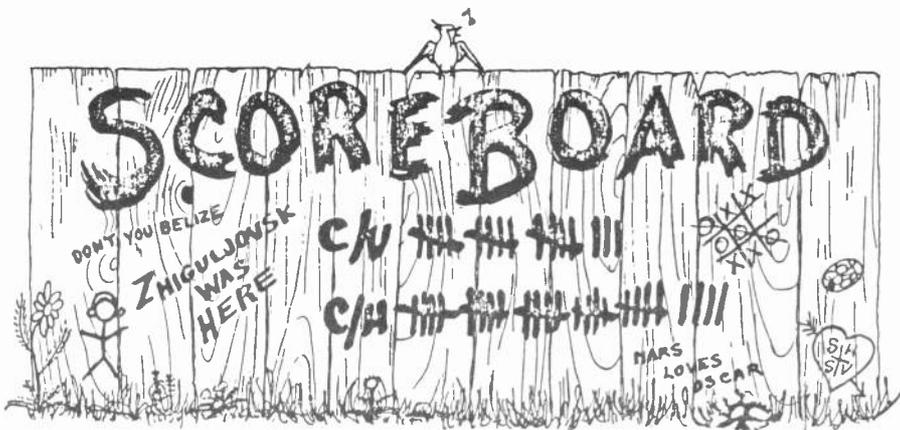
Baltasar Juan
Gerente

WCF 8118 M. 44000
TGBA

I guess this will end yet another QSL Column. Hope everyone had a great Holiday Season.

Time to shovel snow and all that good stuff.

[Handwritten signature]



JERRY A. LINEBACK, Editor
 6361 Shore Dr.
 Douglasville, GA 30135

Welcome to Scoreboard. As you can see, I have moved again. We bought a house, so this address should be good for a while. The Spotlight this month is on Africa. C/H=countries heard and C/V=countries verified. Country counts are to be guided by the NASWA Radio Countries List available from Headquarters. You must update at least once a year to remain on the Scoreboard. We thank all who have participated this month and invite all to share their progress with us. Next deadline will be February 15 for the March FRENEX and the Spotlight then will be on Asia.

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
James Young, CA	237	223	63	62	Reunion Is.
John Tuchscherer, WI	235		64		R. Cordac
Gordon Darling, PNG	232	225	63	60	Radio Cordac
William Flynn, CA	224	207	62	55	V3USE Mauritius
Marlin Field, MI	223	222	63	63	Mt Kenya NYERI
Jerry Berg, MA	223	221	62	61	Katanga
Gerry Bishop, FL	223	209	62	54	R Gambia
Nobuaki Takahashi, Japan	220	187	63	52	
Tom Gavaras, MN	218	214	59	57	Zanzibar
Harold Cones, VA	217	203	58	55	R. Comores
Roland Schulze, FRG	217	202	59	53	R. Comores
Mitch Sams, KS	216	156	61	34	Comores 3331
Al Miller, OH	214	207	59	56	Sao Tome et Pr.
Terry Palmersheim, MN	214	193	58	50	OZRT Lubumbashi
Bill Harms, FRG	214	145	59	28	ORTF Brazzevill
John Sgrulletta, NY	210	210	61	61	Comoros Is.
Paul Buer, FL	208	197	55	50	Isla Palma 350W
Richard Davis, NM	208	195	53	48	Mauritius
Ron Howard, CA	207	189	53	47	Damara sv RSWA
Larry Abraham, MI	206	193	59	54	Rwanda
C. Vernon Hyson, NC	204	192	58	53	R Sao Tome
Steven Lare, MI	204	163	49	26	Djibout1
Kirk Allen, OK	203	183	55	45	Zanzibar
Jim Uerlings, OR	203	65	51	7	R. Botswana
Del Fye, FL	202	187	55	51	Zanzibar
David Swaringen, NC	202	181	58	47	Djibouti
Jerry Lineback, GA	201	106	58	31	Swazi MR
Rick Krzemien, CA	200	178	35	16	Benin
John Bryant, OK	199	176			
Kevin Atkins, AL	199	161	57	43	Sudan&Mauritius
Mike Hardester, PA	197	183	50	43	Mawawi 3380
Rowland Archer, NC	197	179	49	41	Lobito direct

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
Sheryl Paszkiewicz, WI	196	171	50	41	RN Angola
Christos Rigas, IL	192	172	52	39	Ethiopia
Nelson George, NC	191	168	55	44	
Stephen Leite, MA	191	163	40	36	Cape Verde
Gayle Van Horn, LA	190	166	50	43	Cape Verde Is.
John R. Tow, AL	188	163	57	47	R Candip
John Meyer, WI	186	152			
Andy Leskowitz, MA	185	106	56	26	Sao Vicente
John Huniwell, NJ	183	179	51	47	R. Malabo
Charlie Hoffman, PA	183	149	49	36	Omdurman 5040
Kent Willis, KY	183	136	57	40	Burundi
Hadley Cress, VA	181	8			
Tom Daly, NY	178	32	50	4	Voz Galo Negro
Bryan Price, KY	173	98			
Morley Kirkland, Ont.	172	158			
Tom Laskowski, IN	167	130	52	37	Burundi
Ichiro Maruo, Japan	158	90	23	9	Africa No. 1
Kevin Klein, WI	155	67			
John Mosman, KS	151	114	43	26	Chad
Rev. John Eckert, PA	147	124	41	29	R. Senegal
Andy Rugg, Que.	146	126	38	32	TWR Swaziland
Carl Mann, NE	145	124	31	23	Lesotho 4800
Jim Renfrew, NY	145	110	39	21	Seychelles
Carl Radtke, CA	143	143			
Keiichi Kondo, Japan	143	100			
Dustin Brann, MO	143	73			
Peter Dillon, Greece	142	91	36	17	Ascension dir.
Thomas Ross, IL	139	118	33	25	RTB BurkinaFaso
Kenneth Hill, MA	135	85	40	14	R. Truth
Donna Robinson, IL	135	98	35	22	Tanzania
Jackie Cole, CO	130	93	27	15	Lesotho
Dale Park, HI	127	37	28	8	R. SWA first wk
David Morby, NY	122	26	29	2	R Orion
Jerry Ervine, TX	103	80			
Ronald Purdue, MN	082	43			
Joe Zobro, MI	075	60	7	5	Ghana

Thanks to all who have shared their totals with us this month. We encourage all NASWA members to share their totals with us through Scoreboard. Remember the next deadline of 15 February and the Spotlight on Asia. Please use the new address. Gud DX and 73s.

Merry Christmas and a Happy New Year

Jaz

NOTICE, PLEASE

Gilfer Associates, Inc. has extended the offer of the 1989 World Radio TV Handbook and Rainer Lichte's book "Radio Receiver - Chance or Choice" until January 20, 1989. The WRTV is \$16.95 + \$2.00 shipping and the book is \$6.00 + \$2.00 shipping. If you order both, the shipping charge is only \$3.00. To take advantage of this offer, write to Gilfer at P.O. Box 239, 52 Park Avenue, Park Ridge, NJ 07656 or call (201) 391-7887.

Greetings and welcome to the January, 1989 Contributors' Page. The following folks helped make this issue of FRENEX possible:

Brian ALEXANDER, Mechanicsburg, PA
Rowland ARCHER, Raleigh, NC
Kevin ATKINS, Pinson, AL
Robert CARLSEN, Vincent, OH: Allied SX-190; Radio Shack DX 440
Richard COOPER, Waterbury, CT: Panasonic RF 2200; Sony ICF 2010
Tom DALY, Pomona, NY: JRC NRD 515; Sony ICF 2010
Richard D'ANGELO, Wyomissing, PA
Barbara Ann DILL, Saint Mary's, PA: Panasonic RF 2200
Peter DILLON, serving America in Greece: Radio Shack DX-400
Rev. John C. ECKERT, Collegeville, PA: Kenwood R 5000
Richard ECKMAN, San Jose, CA: Panasonic RF-4900; Sony ICF 2010
Marlin FIELD, Hillsdale, MI: Drake SPR 4
John FIGLIOZZI, Clifton Park, NY: Sony ICF 2010
Arthur HANKINS, Greensburg, PA: Kenwood R 1000
Gerald HART, Petaling Jaya, MALAYSIA: Sony ICF 2010
Rufus JORDAN, Pittsburgh, PA: Radio Shack DX-302
John LACKMANN, Lexington, VA
Daniel LAKE, Englewood, NJ
Tom LASKOWSKI, South Bend, IN
Harold LEVISON, Philadelphia, PA: Icom R-70
Ken MACHARG, Jeffersonville, IN: Sangean ATS 803
William MAYER, Allentown, PA: Kenwood TS 4305
Don MOORE, Athens, OH
David Morby, Clifton Park, NY
Dale PARK, Honolulu, HI: Sony ICF 4700W; Sangean ATS 803
Sheryl PASZKIEWICZ, Manitowoc, WI: JRC NRD 515
John PRATH, Ft. Lauderdale, FL: Icom R 71A; JRC NRD 525
Ronald PURDUE, Byron, MN: Realistic DX 440; Sony FRG 8800
Jim RENFREW, Rochester, NY: Sony ICF 2010
Donna ROBINSON, Willow Springs, IL: Sony ICF 2010
Edward RUBIN, Port Chester, NY: General Electric 7-2990
Andy RUGG, Nun's Island, PQ: Hammarlund HQ 180; Icom R 71A
Roland SCHULZE, Stuttgart, West Germany: Kenwood R 5000; Drake R4B
Dan SHEEDY, Encinitas, CA: Icom R 70
David SNYDER, Staten Island, NY
David SWARINGEN, Huntersville, NC: Icom R 70; Yaesu RFG 7700
Ron TROTTO, St. Cloud, FL
John TUCHSCHERER, Neenah, WI: Icom R-70; Yaesu FRG-7700
Dr. Richard WOOD, Hilo, HI: Kenwood R-1000; Drake SPR-4

*** kap's comments***

First of all, on a personal note, Muriel and I would like to thank all those who sent us Holiday Greetings during the past Season. Also, I would like to say thank you for those who sent Sympathy Cards on the recent passing of my Father.

May this column serve as a Memorial to fellow DXer, William T. "Tom" Farmerie of Grafton, MA who passed away on December 16. Rest in Peace, my friend. To his widow Ermine and son Christian go our deepest sympathies.

Don't look too hard for the "Awards Page" this month. There were only a few Award Applications processed in the past several weeks and we could not justify an entire page. Next month we will be back with the Awards Page and there will be some major and exciting announcements made.

We must remind everyone that the deadline here is the 12th of the month. Our policy is to process all of the material received on the evening of the 12th and to mail it on our way to work on the morning of the 13th. Any Contributions received after the 12th must be held over to the following month, no exceptions can or will be made to this policy.

In case you stray from the SWBC Bands and stumble upon KA1SPO on 10 meter SSB, we'll be pleased to QSL you on receipt of an accurate reception report. And, to the first NASWA member we work on 10 meters, a special something.

Till next month,

Best 12/26/88



LOG REPORT

section B

4900 to 6199 kHz

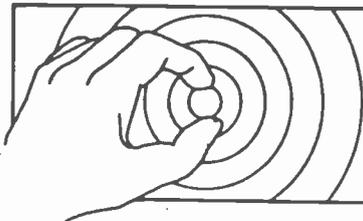
Editor: Sheryl Paszkiewicz, 1015 Green St., Menlhowoc, WI 54220-6231

- 4905 BRAZIL, R. Araguaia, 11/26, 0715 w/folk mx, ads, "o capital do novo estado do Tocantins;" north 1/2 Goias now state of Tocantins. (Moore/Valko-PA) 12/10, 2320 w/ID, mx (Schulze)
- 4905 BRAZIL, R. Relogio Federal, 11/22, 2340 w/time sigs, ID 0000. (Swaringen-NC)
- 4910.2 ZAMBIA, ZBS, 12/10, 1810 in vern w/nx, clear ID 1815. (Schulze)
- 4910.4 KAMPUCHEA, VOKP, 12/2, 2235 w/ID, lcl mx, wooden instruments & flutes, ID 2300, nx, moderate sig. (Schulze-FRG) Good one!--sp
- 4915 BRAZIL, RN Macapa, 12/6, 0303 w/nx, annmcs, ID, fair sig. (Moore-OH)
- 4915 CHINA, Guangxi PBS, 11/20, 1253 w/tlk, 5+1 pips, ID, CH vocals. Fair. (Atkins-AL)
- 4915 GHANA, GBC-1, 11/15, 0522* t/in w/guitar, chorus, ID 0531, anthem, vern tlks, hymn. (Jordan-PA)
- 4930 TURKMEN SSR, Ashkhabad, 11/25, 0050 in RS w/clx mx, Mayak IS, pips, tlk. Site presumed. (Alexander-PA)
- 4934 KENYA, VoK, 11/7, 0210 in EG w/EZL mx, heavily accented anncr, ment. Kenya. (Laskowski-IN) 11/28, 2005 w/closing annmcs, chorus. (Schulze-FRG) 11/20, 2103 w/nx, rel. pgm, annmcs, NA. (Morby)
- 4935 BRAZIL, Rdf. Jatai, 12/4, 0554 w/guitar, ID 0602, splatter from Caracol on 4945 (Moore-OH)
- 4939a VENEZUELA, R. Continental, 11/30, 0243 w/mx, ID, new station. (Tuchscherer-WI) 11/26, 0330, IDs, ads, s/off 0353. (Alexander) 11/26, 0910 w/NA, Barinas state anthem, lotto annmcs, sev. IDs "Buenos Dias Barinas" pgm. Tnx Valko tip. (Moore-PA) 12/7, 1100 w/big sig, romantic ballads, tnx Archer tip. (Atkins-AL)
- 4940t UKRAINE, R. Kiev, 11/23, 0320 in RS w/Dixieland mx, IS & ID. (Swaringen-NC)
- 4940 VENEZUELA, R. Continental, 11/30, 0945 w/ID, nx, ads, president speech, sev. ads & ment. Barinas. (D'Angelo-PA)
- 4958t AZERBAIJAN SSR, R. Baku, 11/23, 0335 in RS w/orch. mx, IS 0400, ID, not 774785 (Swaringen-NC) 11/20, 0420 tent. w/clx mx, tent. ID, nx 0430, CW QRM, faded 0437. (Dillon-GREECE)
- 4960 ECUADOR, R. Federacion, 11/19, 0000-0058* w/Indian folk mx, tlk march at s/off, no ID but probably them. (Alexander-PA)
- 4965 BRAZIL, R. Alvorada, 11/27, 0859, ballads, reverb ID 0915. Difficult to understand (Alexander-PA)
- 4975 TADZHIK SSR, Dushanbe, 12/9, 1220 w/instils, "Injo Dushanbe" ID, tlk. F-G. (Atkins-AL) 11/27, *1530 in Farsi w/sked, nx. (external sce.) (Wood-HI)
- 4980 VENEZUELA, Ecos del Torbes, 11/25, 0155 w/VOA nx. (Tuchscherer)
- 4990 ARMENIA, R. Yerevan, 11/22, 1829 w/gong, ID, no //4040 (Schulze)
- 4990 INDIA, AIR Madras, 11/12, 0024-0045* in Tamil w/subcont. vocals Flk, s/off annmcs, ID. (D'Angelo-PA)
- 4990.9 PERU, R. Ancash, 11/25, 0326 w/IDs, cumbias, "La Voz de los Andes." (Schulze-FRG)
- 4996t USSR, RWM, 11/20, 0418 w/time pips, some kind of printer, 779996, fair. (Dillon-GREECE)
- 5000 AUSTRALIA, VNG, 11/11, 0759 anncing temporary opn from NSW, ID, w/WVW/WVH, lvl w/JJY (Park-HI)
- 5000 USA, WV, 11/11, 0718, Rosenthal's propagation forecast (Park)
- 5004a RTO MUNI, RN Bata, 11/24, 2005 w/mx, tlk (Snyder-NY) 11/19, 2054 w/mx, nx 2102 //6249.5 Malabo, ID 2106 (Figlioizzi-NY) 11/27, 2135-2202* w/mx, ID, NA. (Swaringen-NC)
- 5010 CAMEROON, Garoua, 11/19, 2107 w/EG nx, ID. (Figlioizzi-NY) 11/24, 2114 w/nx from Yaounde (Snyder-NY)
- 5020 NIGER, ORTN, 11/27, 0615 w/drums, flutes, long song, ute QRM. FR tlk (Robinson-IL) 12/4, 0627, drums, ID 0629, nx (Moore-OH) LV du Sahel, 11/14, 1735 in lang w/mx, tlks, TPs, FR ID, nx. (Dillon-GREECE) 11/19, 2112 w/tribal mx, FR tlk (Figlioizzi)
- 5034.3p CENT. AFR. REP., R. Centafrique, 11/27, 0514 in FR w/hilife, poss. prayer, guitar & chorus, tlk, drums, poor. (Robinson-IL) 5035.4, 11/19, 2113 w/FR tlk, fair sig. (Figlioizzi)

- 5039.9 VENEZUELA, R. Maturin, 11/25, 0325, fair, mixing w/Upano, tlk/chimes, ID, ment. R. Rumbos too. Also at 0908 w/NA (Alexander-PA)
- 5049 VENEZUELA, R. Mundial, Caracas, 11/29, 0105 w/ID, QTH, mx, anncmts every 7-8 mins. (Jordan-PA) 11/27, 0110 w/ads, jingles, mx, ID, ment. Caracas. (Alexander-PA)
- 5050 COLOMBIA, LV de Yopal, 11/30, 1030, "Esta es LV de Yopal, onda corta..Caracol la gran compania," info, ID, drama (D'Angelo-PA)
- 5050 VENEZUELA, R. Mundial, 11/11, 0339 w/vocals, TCs, ads, many ment. of Caracas (D'Angelo) 12/7, 0410 w/mx, ment. Mundial, TCs (Field-MI)
- 5052 SINGAPORE, SBC, 12/2, 0120 w/pop mx, EG ads, VG. (Hart-MALAYSIA)
- 5055 COSTA RICA, TIFC, 11/30, 0445 w/pan pipes, ID (Field-MI)
- 5055 ECUADOR, R. Catolica, 11/12, *1029, IS, ID, NA, anncmts, Hail Mary. SIO=434. (Trotto-FL)
- 5065a ECUADOR, RN Progreso, 12/6, 1050 w/trlk, ads incl. "Universidad Nacional de Loja," a bank. Fair. (Moore-OH)
- 5090 PAKISTAN, RP Islamabad, 11/12, *0045 in Urdu w/ID, Quran, tllks, typewriter song, ID, 3 TPs, nx, vocals. (D'Angelo-PA) 12/2, 0154 //4980 w/ID, addr., call to prayer, ID, short mx, TPs, nx, SINPO=454331!! (Schulze-FRG)
- 5120 UNID, what Allen, Valko & I have hrd is 4th harmonic R. Alajuela Costa Rica. ID'd after hearing Valko's tape. (Moore)
- 5275.5 PERU, R. Onda Popular, 11/14, 0312 w/bulletins, mx. (Tuchscherer)
- 5295 AFGANISTAN, RA, 0257-0328 in lang w/Quran, nx, ID 0300, lcl clx, hrd in LSB. (Eckert-PA) Sounds like a utility feeder--sp.
- 5889.1 CLANDESTINE, R. Liberation, 11/12, 0225 w/trlk abt Sandinistas, Fair sig. (Figliozi-NY) 11/12, 1050 w/mx, tllk abt Bush, ID. (Alexander-PA)
- 5905 USSR, R. Moscow, 11/20, 0445 in SP w/LA svc, tllk abt mx in LAM, Soviet rock, ID. (Dillon-GREECE)
- 5925 ESTONIA, R. Tallinn, 11/13, 2120 w/mx, tllk, 2 "Siin Tallinn" IDs 2136, closing anncmts 2205, NA. (Rugg-PQ)
- 5935 LATVIA, RM relay, 11/20, 0500 in RS w/RM IS, nx. (Dillon) 11/30, 0528 w/2nd pgm, IS for Mayak, nx. (Figliozi) 11/24, 2117, R. Riga, opera, ID & tllk. nice peak 2130. (Atkins-AL) 11/10, *2100-2159*, R. Riga, Kremlin bells, gongs for midnight NA, ID, clx mx, tllks, ID at s/off. (D'Angelo-PA) 11/12 w/llite mx, 2 IDs 2200 UTC. Fair sig. (Figliozi-NY) Whew!--sp.
- 5955.1 PERU, R. Huancayo, 11/19, 1015 w/ID, OA mx, anncmts. (Alexander)
- 5960 CANADA, R. Japan relay, 11/26, 0332 in EG w/mx, JP lesson. (Levison-PA)
- 5965 GREECE, VOA relay, 11/20, 0530 in AR w/nx, current affairs, ID "Sawt ul-Amrika," EG lessons. (Dillon-GREECE)
- 5973.1 PERU, 11/6, 0730+, R. Melodia. Vocals, ad for "hornos electricos," ID, nx, best after BBC s/off 5975. Tnx Allen tip. (Sheedy) 12/7, 1018 w/excited tllk, IDs, weak w/splatter. (Atkins-AL)
- 5980 NORWAY, RNI, 11/20, 0558 in NN w/IS, ID in EG, into nx. (Dillon)
- 5980 YUGOSLAVIA, RY, 12/9, EG to NAM at 0100. (Figliozi-NY)
- 5985 MEXICO, XERMX, 11/16, 1305 w/NA, ID, addr., nx 1308, QRM from Guatemala 5982. SIO=434. (Trotto-FL)
- 5985 USA, WOFC via WYFR, 11/19, 0302 in EG w/nx, culture pgm. (Levison-PA)
- 5985 WEST GERMANY, RPE, 11/20, 0613 in Hung., commentary, tllk abt George Bush. (Dillon-GREECE)
- 6005 WEST BERLIN, RIAS, 11/19, 0611 w/mx, tllk, ID 0630-"RIAS Berlin" nx, QRM from BBCws. (Rugg-PQ)
- 6006 COSTA RICA, R. Reloj, 12/04, 0941 w/mx, anncmts, ID (Carlsen)
- 6010 BRAZIL, R. Inconfidencia, 12/6, 2302 w/anncmts, ID 2306, ads incl. Supermercado. Phone-in mx pgm, g. w/het. (Moore-OH)
- 6010.6 VENEZUELA, R. Los Andes tent., 11/19, 0231 w/anncmts, ment. "Mil Cuarenta," LSB best. (Daly-NY) 11/13, 0930+ w/ads, anncmts, jingles. (Sheedy-CA) 11/19, 1025 w/ment. "Mil Cuarenta" IDs, ads, pop mx. (Alexander-PA) Also see Allen's log in DEC--sp
- 6011p PERU, R. America, 11/26, 0910, Andean mx (Moore-PA) 11/12, 0930 w/OA mx, tllk, ID 1004. (Alexander-PA)
- 6015 AUSTRIA, RAI, 12/15, 0400 w/nx by Eugene Hartzell. (Dill-PA)
- 6020 BONAIRE, RN relay, 12/15, 0230 w/interview after nx & Newslines. (Dill-PA) Tnx for the loggings, Barbara--sp.
- 6020 MEXICO, XEUW, 11/10, *1131 w/vocal grp, ID, s/on anncmt, TCs, ads, romantic instls & vocals. (D'Angelo-PA)

- 6025 DOMINICAN REP., R. Amanacer, 12/1, 0036 w/ID, slow mx. My 1st
DX w/new R7 w/4 filters! (Schulze-FRG) Congratulations--sp.
- 6029.7 BRAZIL, R. Globo, 11/26, 0815 w/ballads, ad strating, ID,
7/6120. (Alexander-PA)
- 6030 CHILE, R. Santa Maria, 11/26, 0907. Poor but clear w/MOR mx,
ID, Looking for Calgary. (Moore/Valko-PA)
- 6030p WEST GERMANY, SDR, 12/4, 0647 w/non-stop instls, tlk in GG
0700. Fair w/QRM from VOA 6035. (Moore-OH)
- 6050p BRAZIL, R. Guarani, 11/26, 0745, folk mx, poss. ID 0800.
Clear but weak. (Moore/Valko-PA)
- 6055 JAPAN, RCI via NSB, 11/19, 0830 in JP w/"Canada This Week"
w/Quebec rock, tlk abt elections. (Park-HI)
- 6055 CZECHOSLOVAKIA, R. Prague, 12/8, 2346 w/Inter Pgm--organ mx,
ann in Czech & EG, fair sig. (Figliozi-NY)
- 6065 ALASKA, KNLS, 11/18, 1001 in JP w/ID, IS, Elvis mx. (Park-HI)
- 6065 COLOMBIA, R. Super de Bogota, 11/19, 1004 w/TCS, tlk, long ad
strings, very long tlk 1029-1041 (dull!) SIO=343. (D'Angelo)
- 6065 SOUTH AFRICA, R. RSA, 11/12, *2300 in SP w/IS, ID, nx //9580.
(Mayer-PA)
- 6065 SWEDEN, RS, 11/29, 0600 SD ID, nx, good. (Wood-HI) Busy freq--sp
- 6070 CANADA, CFRX, 11/25, 0528 w/rock mx, 1cl wx, 0532 ID. (Daly)
- 6090 LIBERIA, ELBC, 11/21, 2226 in EG w/hymns over & under Bandeir-
antes. (Tuchscherer-WI)
- 6093.7 CUBA, RHC, 11/13, 2250 FMing carrier & distorted audio. Mx OK,
voice unintelligible. IS 2300, off 2307, no //s on 49m (Sheedy)
- 6100 VENEZUELA, YVTO, 12/4, 0936 w/SP annmets at 41 sec. past min.
(Carlsen)
- 6110 MALTA, R. Mediterran, 11/30, 2230 in EG w/FC, addr, hvy ute
QRM this nite. (Morby)
- 6120nf TURKEY, TRT, 11/22, IS at 0357, TPs 0401, tlk in TT (Figliozi)
- 6135v BOLIVIA, R. Santa Cruz, 11/19, 0919 w/mx, TCS, IDs after each
song, formal ID, FC at 0930, interview. (D'Angelo-PA) 11/26,
0935 pres., tlks, Andean flutes, poor. (Moore/Valko-PA)
- 6135 SWITZERLAND, SRI, 12/15, 0200 & 0400 w/Dateline and tlk abt
Cuban troops in Angola. (Dill-PA)
- 6140 CHINA, Beijing PS, 11/8, 2348-2356* in CH w/tlk by M, ID,
East is Red IS & off. Back on 2400. Fair sig. (Sheedy-CA)
- 6150t KENYA, VoK, 11/24, 1929 w/Afr. mx, tlk in lang. VOA on 2000.
SIO=322. (Snyder-NY)
- 6155 ROMANIA, R. Bucharest, 11/7, 2320 in Rom., clx mx, ID 2329,
more mx, //9570. (Prath-FL)
- 6160 NEWFOUNDLAND, CKZN, 12/2, 1047 w/1cl wx, TC, CBC ID. Fair.
(Moore-OH)
- 6165 USA, VOA Greenville, 11/10, 1000 in EG w/nx, "VOA Newsline"
het QRM. Fair sig. (Park-HI)
- 6170 BRAZIL, R. Cultura pres., UTC-3 TCS on 11/6, 0710, wake up mx,
ad strings for Sao Paulo bizniz, sig. improved over time.
Phone requests. (Sheedy-CA)
- 6170 SRI LANKA, DW Trincomalee, 11/19, 1620 in EG w/cmtry, inter-
view, 7/17825 Malta relay. F-G sig. (Sheedy-CA)
- 6180 CHINA, Beijing, 12/2, 1054 w/tlk in CH, TPs at hr, ment.
Taipei but this Beijing per Taiwanese friend who hrd tape.
(Moore-OH)
- 6180 CYPRUS, BBC relay, 11/3, 1750, EG sports, nx. (Dillon-GREECE)
- 6185 MEXICO, R. Educacion, 11/26, 0620 w/mx, ID, NA, clx. (Moore/
Valko-PA)
- 6185 VATICAN, Vatican R., 12/9, 0051, lite mx, tlk in EG & IT.
Hymn which was same as IS. (Figliozi-NY) 11/7, *0600 IS, EG
ID, "Laudetur. . ." good. (Wood-HI)
- 6190 WEST GERMANY, Sender Freies Berlin, 11/10, 0636 w/lite mx, ID
0637, mx, tlk. (Trotto-FL) Good one, Ron--sp.

That wraps it up this time. Thanks to all who contributed, especially the newcomers. Also special tnx to ROLAND SCHULZE, whose name I wasn't able to get to Kap in time for the contributors' page. Happy 1989!



LOG REPORT

section C

6200 to 11699 kHz

Editor: Jerry Irvine, Box 5204, Hidalgo, TX 78557

- 6025 DOMINICAN REP. R.Amencer 0203-0220 rel. mx, QRN. (MacHarg 12/3)
- 6125 USA-ALASKA KNLS *0702 RS, ID, cntry mx, g. (Wood-HI 11/29)
- 6170 BRAZIL R. Tupi *0700 PT ID from Sao Paulo, pop mx. (Wood-HI)
- 6185 VATICAN 0600 EG IS s/on, (Wood-HI 11/7)
- 6205 IRELAND R.Fax pres. 0829-0915 EG tech tk by om, yl. pop mx, (Alexander-PA 11/20) / (Moore, Valko-PA 11/26)
- 6214 CLAND R.Quince de Septiembre *1100-1120 SP S/on w/anthen, tk, ID, mx, (appears to ID as R.Libreracion, not as on 5889.2)//5929.5 (Alexander-PA 11/12)
- 6215 LEBANON King of Hope 0810-0830 rel. mx; (MacHarg-IN 10/25)
- 6215 INT'L WATERS Wld.Mission R. 0538-0556 EG mx, ID w/CA address; SINPO-33233. Carlsen 11/27)
- 6225nf GREECE VoG 0500-0420 GK bells/flute IS, anthen, tk, mx by yl ancr // 7430, 9425 (Alexander-PA 11/26) / *2100-2110 mx, ID, encls by om, nx by yl. QRN, p-f. (Mayer-PA 11/20)
- 6219.5 MEXICO R.Constata-USB 2444 SP on tk, mx, ID, mx, ID, phone requests. SIO-343 (Trotto-FL 11/28)
- 6230 MONACO TWR *0830-0920* GM rel tk, mx, s/off w/ID, IS. //9795 stronger; (Alexander-PA 11/20)
- 6240 BANGLADESH RB 1340-1354 NP or AR? tk, ID, tk, tone-off (Sheedy)
- 6248 VATICAN CITY VR 0738 EG wld nx, s/off into SP @0745; (Cooper-CT)
- 6249.5 EGUATORIAL GUINEA R.Nac. Malabo 2043 Af.mx, not// 5003.6 Bata until 2101, nx in SP by om. mx, f. (Figliozzi-NY 11/19)
- 6280 ECUADOR HCJB 0820-0830* EG Two separate pgms on this freq at the same time. one pgm // 8205, the other // 8130. Off the air at same time the 8205 freq signs off. some math:8205-8130=75, 75 + 8205=6280 ? (Alexander-PA 11/27)
- 6290 CHINA PR 1320 Lao CH language lessons, IS, CH ID, into pos. Indian lang. //7350, 7190, 8185; g. (Sheedy-CA 11/8)
- 6294 UNID1345-1356* mix of CH & AR vocal nx QRN R.Beijing f. (Sheedy)
- 6305 CLAND LV del CID 1131 SP mx, Cuban ID, g. (Park-HI 12/8)
- 6323.6 PERU Estacion 'C' 1034-1055 SP OA mx, ancats, ments of Moyo-bamba, ad w/mx, ID; (Alexander-PA 11/19)
- 6340 TURKEY Turkish Police Radio *0457-0540 TU open carrier, 12 noted string instr. IS, anthen, mx pgm. SIO-353. (D'Angelo-PA 11/23) / Also reported by: Daly-NY, Jim Kay, Don Moore, Dave Valko;
- 6550 LEBANON Vol 0136 AR yl & om tk, mx, tk, IS, ID, mx. SIO-333 (Trotto)
- 6612.6 CLAND R. Farabundo Marti 0297 SP ID by om, mx, tk, (jeaming) SIO-333. (Trotto-FL 11/28)
- 6726 PERU R. Satelite 0135-0159 SP tk by yl, LA mx, tk. (Alexander-PA)
- 6756.3 CLAND R. Patria Libre 0054-0100 SP Revolutionary cments, mx, ID f. (Sheedy-CA 12/6) / 8755.1 couple of bars of Colombian NA. Strong signal (Alexander-PA 11/27) / *0025-0058 anti-Colombian. yl, om tk, ment Guatamela location, s/off, march mx, TNX Zeller tip; (D'Angelo-PA 11/28) TNX DXSF tip-Sheedy.
- 6900 TURKEY Turkish Metro R. 0545-0559 M.E. mx, f. QRN (Moore, Valko)
- 6909.6 IRELAND R. Dublin Int. 0040-0120 EG pop mx, DJ chatter, IDs, also at 0545 but wk, stronger at 0830; (Alexander-PA 11/12) / 0450-0510 mx pgm, IDs. tk of R.Dublin contest. (Morby 11/20) / request for address?? (Snyder-NY)
- 7105 MONACO TWR 0753-0800 EG rel pgm, addresses, QRN; g. (Sheedy-CA)
- 7115 BULGARIA R. Sofia 2140-2153 EG tribute to JFK; (Tuchscherer-WI) / *0600 GK nx, QRN R.Moscow; g. (Wood-HI 11/11)
- 7115 USSR RM 0033 GM? cntry on var. subjects; 444 (Levison-PA 11/8)
- 7120 SOMALIA R.Hargeisa 1515-1600 Somelian, pres. mx; (Schulze-FRG)
- 7135 BULGARIA RS *0600 GK s/on, ID //7115; f. QRN RFI (Wood-HI 12/1)
- 7150 USSR RM 0259 EG IS marching mx, ID, nx; (Snyder-NY 11/27)

7155 ENGLAND RCI via Daventry *0555 FR/EG IS, ID // 6140 (Wood-HI)
7160 USSR RMWS 2200 EG ID, nx, 'Focus on Asia, Pacific. (Prath-FL 11/5)
7170 GREECE VOA-Kavala *0245 Estonian/EG IS, ID, pga; p. (Sheedy-CA)
7170.5 NEW CALEDONIA RFO Nouaee 0700 FR T-pips, om tk; f. (Figliozi)
7200 SOMALIA R.Mogadishu 0310-0355 Somali-pres. om, yl tk, (Jordan-PA)
7203 KATANGA LV du Zeire, Lubumbashi 0356-0430 FR IS, NA, singing by
man, s/on encares, mx; (Paszkiewicz-WI 12/2)
7240 SINGAPORE BBC-Kranji 1445 EG lcl mx S/off; (Rubin-NY 9/11)
7245 ANGOLA RNA 0405 Vernaculars nx; g. (Wood-HI 12/1)
7250 VATICAN RV *0440 Belorussian IS, ID, nx, QRM RM; f. (Wood-HI 12/1)
7255 NIGERIA V o Nigeria 0530 EG nx by om, tk; SINPO-43433 (Carlsen)
7270 POLAND RP 2325 EG 'Panorama' re. rel, politics; vg. (Morby)
7285 POLAND RP *0558 PL IS, ID, mx f thru DW in GM (Wood-HI 12/2)
7295 CHINA RB FS BAODING (per PWBR) 1103 JP yl, om w/CH lesson. lcl
QRM (Park-HI 12/8)
7355 USA WRNO 0317 EG LSU-Tulane football. ute-QRM. (Park-HI 11/27)
7360 USSR RSP+P 2210-2300 EG/GM tks, sked, address, mx; (Jordan-PA)
7560 CLAND LV del CID 0440 SP tk, IDs; RTTY QRM. f. (Figliozi-NY)
7400 USSR R.Kiev 0300 EG IS, ID, nx by om; (Snyder-NY 11/27) /
2430 tk, DX Club pga @2440; 444 (Trotto-FL)
7415 PIRATE WRSV-R.Free Texas 0247 EG 'Beatles' mx, ID by om, mx,
Dallas address; 343. (Trotto-FL 11/28 / 0330-0356 mx by
Creedance Clearwater Revival. (Renfrew-NY 11/19)
7430 GREECE VoG 0133-0145 EG/GK nx by om, ID, into GK; f. (Meyer-PA)
7460 ISRAEL KOL 0504 EG interbiew w/Rab. Schrier; 444. (Snyder-NY)
7520 USA WHRI 0524 EG om tk, ads, mx, ID; 444. (Snyder-NY 11/27)
7550 SO. KOREA RK 0830 EG 'Echoes of Korean Music', 'Shortwave Feed-
back' ute & lcl QRM. (Park-HI 11/27)
7600 ECUADOR HD210A 1445 SP Time ///t. om ancr. every min. w/pips
and long tone marking minute; (Figliozi-NY 11/12)
9009 ISRAEL KOL 2320 Lang ID, mx; (Hankins-PA 11/9)
9022 IRAN VOIRE 1803-1825 GM tk & catry; f. Dillon-GR 11/19)
9045t CLAND Iran's Flag of Freedom Radio (Egypt) 1645-1800 Farsi horns
om/ cats, mx; g. (Dillon-GR 11/19)
9360 SPAIN REE 0055 SP ment 'America' pga. (Hankins-PA 11/1)
9385 ISRAEL KOL 0520-0605 HB Rashed Bret pga, mx, om w/IDs, tk,
yl vocals, ID, nx to s/off; f. (Jordan-PA 12/3)
9395 GREECE VoG 1808 Albanian nx; //9425; g. (Wood-HI 11/1)
9410 UK BBCWS 1650 EG tk, preview, ID, nx; ute QRM (Park-HI 12/6) /
0057 bells chime yl ancr nx; (Hankins-PA 11/1) / 2050 2 men w/
QSO; (Hankins 11/4)
9420 GREECE VoG 0130-0140 nx;
9435t CLAND Nat'l Unity R. (Sudan) 1337-1420 AR? vocals & tk by om
ID, [major solar flare today @0818; nothing next two days]
(D'Angelo-PA 11/10) / 1300 AR TXMTR on 1300 anthem, ancat by om,
Koran, nx; 242.EG ID @1400; (Lackmann-VA 12/2)
9435 ISRAEL KOL *2230-2300* EG IS, ID, tk, catry; (Jordan-PA 12/4)
/ 0100 territorial nx, (Hankins-PA 11/1)
9445 TURKEY VoT 0435 EG 'Friends' pga, nx (Cooper-CT 11/28) / *0455
NA, tk, ID by yl, nx; g. (Wood-HI 10/26) / history pga; 444
(Snyder-NY 11/21) / 2326 political tk; (Hankins-PA 11/9)
9465 USA WHLK 0858-0700* EG Elder Meyer request reports; g. (Wood-HI
9480 MONACO TWR 0900 EG interview, QRM CH st. Sun only; (Eckman-CA)
9480 UNID 2030 LANG? vocal folk mx, om w/encares; (Hankins-PA 11/4)
9480 ARMENIAN SSR R.Yerevan *2130-2200* Armentian/FR s/on w/ 12-note
IS, yl, om w/alt IDs, mx, nx into Fr @2150; (Jordan-PA 11/24)
9480 USSR RM *2300-0000* SP tks, interviews, reports w/yl, om ancrs.
mx, nx; f. (Jordan-PA 11/24) / 1955-2120* AR nx, mx; (Jordan-PA)
9485 ALBANIA RT *0430 EG ID, nx; g. (Wood-HI 10/25)
9495 USA WHRI 0830 EG 'In Touch' 0700 IS, ID, requests; g. (Wood-HI
9495 USA KYOI 2331 EG sked. CSM; (Hankins-PA 11/9)
9500 ALBANIA RT 1805 RS political tk; g. (Wood-HI 11/1)
9505 CZECHOSLOVAKIA RP *0555 IS, multilingual ID, 0600/ FR (Wood-HI)
9509.1 ALGERIA R.Algiers 1945 EG/SP pop mx, om tk; (Figliozi-NY 11/15)
9510 ROMANIA RB 0426 EG joining SW Club, CW-QRM, ID, sked by om;
(Snyder-NY 11/23)
9515 IRAQ RB 0405-0425* EG yl ancr w/nx, AR inst, vocal mx, sked &
freq; (Jordan-PA 11/15)
9515 LESOTHO BBC 1720-1745* EG comedy show; vg. (Tuchscherer-WI 11/21
9520 USA WYFR 0345-0400 EG open forum, request donations; (Hankins-PA

9525 CUBA RH 0515-0530 SP ID by om, mx; / *0600-0845 s/on ancmts, freq, sked by om, y1, nx; (Jordan-PA 11/18)

9540 VENEZUELA R.Nac. 1104-1115 EG/SP financial nx, ID, sked; / 2140-2158* s/off w/NA; (Alexander-PA 11/19) / 0150-0215 SP om w/freq, CT'm, ID; (Jordan-PA 12/1) / 0252 econ tk by y1, ID, sked tk abt Simon Bolivar; f. (Sheedy-CA 12/7)

9540 CZECHOSLOVAKIA RP 0108 EG y1 w/nx; (Hankins-PA 11/1)

9560 JORDAN R.Jordan 0543-2155** AR/EG nx by y1, gave lcl time '7 minutes to 8', mx; 433 (Snyder-NY 12/7) / also reported by the following between 11/20 and 12/5: Morby, Paszkiewicz, Sheedy, Prath, Jordan, Tuschcherer, Daly, Cooper, D'Angelo, Lackmann;

9560 FINLAND RF 0630 Swedish IS, nx; // 11755; (Wood-HI 10/21) / 0705 nx; (Wood-HI 11/27)

9575 MOROCCO R. Medi 1955 AR/FR mx, tk, eds, nx, US pop mx; f. (Figliozzi-NY 11/19) / ME mx, nx byom & y1; (Tuschcherer-WI)

9575 ITALY RAI 0113 EG pop mx, y1 ancr; (Hankins-PA 11/2)

9580 JAPAN RJ 1440 Yamata* IS under R.Australia; p. (Figliozzi-NY) / nx; (MacHarg-IN 11/25) / om tk abt space, ID @0257, s/off, bird IS; (Snyder-NY 11/27)

9590 ENGLAND BBCWS 0120 EG pop mx, market rpt; (Hankins-PA 11/2)

9590 SEYCHELLES FEBA 1815-1824* EG tks, IS; (Tuschcherer-WI 11/9)

9590 NETH. ANTILLES RN 0240-0315 media net; (MacHarg-IN 11/25)

9595 UAE UAE Radio 2225-2300 EG tk by y1, ID; 'Capital R. Gov. Comm. and Vo UAE 9695 (WRTH) have been reported this freq; (Mayer-PA) / *2200-2230 s/on w/anthem, ID (Vo UAE) ancmts, nx, Quran, AR mx; // 11965, 6170 (Alexander-PA 11/19) / 2305-2330 history pgm, ID, freq; QRM BBC 9590. f. (Sheedy-CA 11/18)

9600 PORTUGAL RP 0230-0245 nx, cmtry; (MacHarg-IN 11/25)

9605 GERMANY, FR DW 0342 EG nx pgm. s/of, NA (Cooper-CT 11/26)

9610 SEYCHELLES FEBA *0310 ID, IS, rel pgm; g. 10/20 / QRM Moscow in SP; g. (Wood-HI 11/16)

9615 SWEDEN RS 1805 nx; g. (Wood-HI 11/1)

9617.8 MOZAMBIQUE EM-Nat'1. 1645-1803 PT BR pop mx, ID, freq, nx (Sheedy-CA 11/18)

9630 NETH. ANTILLES RN 0751 EG Jon Marks on WW2 cland. radio stations (Park-HI 12/7)

9635 FINLAND RF 0327-0342 FR mx w/y1 ancr, EG ID, nx, (Tuschcherer)

9635.7 MALI RTVM *0659-0715 FR s/on anthem, ancmts, ID, lcl mx; // 7110.1, 11980.1, 7284.4. (Alexander-PA 11-20)

9640 UAE UAE Radio 0332-0348 EG nx, history pgm; (Purdue-MN 11/10)

9640 FINLAND RF 1530 freqs, SD, time sig, nx; g. (Wood-HI 11/27)

9640 SWAZILAND TWR 0330 EG IS, Id; g. (Wood-HI 10/20)

9650 NORWAY RN 0310' NW sports; g. (Wood-HI 10/20)

9655 CUBA RH nx, cmtry; (MacHarg-IN 11/25)

9655 THAILAND RT 1300-1316 Lang CH-type mx, ancmts, IS, tk, stringed instruments; (Paszkiewicz-WI 11/28)

9660 VENEZUELA R. Rambos 0501* SP ID, NA return @5a.m.(0900) (Wood)

9660 YUGOSLAVIA RY 2203 EG nx pgm; (Carlsen 11/27)

9665nf SO. AFRICA SABC 0426-0445 AK nx, instr. mx, IDs; (Jordan-PA) 0500 ID, nx; f. (Wood-HI 11/24)

9685 CHINA RB *0000-0015 EG IS, ID, nx by om, cmtry by y1; f w/ increasingly bad QRM. (Mayer-PA 11/13)

9685 PORTUGAL IBRA via RTE Sines 2025-2100 AR chimes, EG ID, AR rel. pgm; (Paszkiewicz-WI 11/25)

9685 CLAND VODPRK (Korea, DPR) 0705 KO tk by politician; g. // 11880 also g. but better modulation on 9685; (Wood-HI 12/2)

9680 PORTUGAL R. Renascenca 1800-1901* PT bell melody, ID by om, rel tks, ancmts, freqs, s/off; (Jordan-PA 11/8)

9690 CHINA RB 0306 EG nx, cmtry. 444 (Levison-PA 11/26)

9695 UAE VoUEA, Abu Dhabi 2205 EG Koran, cmtry by om, ID, freq, nx by y1; // 8170, 11965. 533 (Lackmann-VA 11/21)

9700 USA VOA 0429 EG IS, ID; (Snyder-NY 11/23)

9710 UK BBCWS 1845-1930 'Top Twenty' wld nx, market rpt, (Dillon-GR)

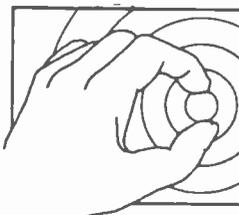
7515 HOLLAND RN 0532 EG nx, 'Newslines' pgm; (Cooper-CT 11/26)

9720 SAUDDI ARABIA BSKSA 1845 EG 'Daily Chronicle'; 333 (Lackmann-VA) 1658-1805 AR mx, ID, mx; 323 (Snyder-NY 12/4)

9720 AUSTRALIA RA *2158 CH IS, ancmts, EG lang lesson in meth (Sheedy)

9725 SWITZERLAND SRI 0400 EG nx, 'Dateline Saturday', 'S SW MGR' QRM WYFR 9720, RHC 9730; (Park-HI 11/27)

9730 GERMANY DR RBI 0307 EG cuntry; 434.// 11785 (Levison-PA 11/5)
 9740 SINGAPORE BBC 1305 EG nx '24 Hours'; (Prath-FL 11/24)
 9745 MALI R. Beijing-Bamako relay 2035-2052 EG nx by oa, ID, business features by yl; 343. D'Angelo-PA 11/9)
 9745 SPAIN REE #0400 SP to L.America nx; //9830 g. (Wood-HI 12/1)
 9750 GERMANY R.Liberty #2130-2134 RS IS, oa w/ID 'R. Svoboda', nx; 333 (D'Angelo-PA 11/9)
 9750 SO. KOREA RK 1405 EG nx by yl, tk; 434 (Snyder-NY 11/25) / 1300 nx, cnatry; (Rubin-NY 9/12)
 9750 LIBERIA VOA-Monrovia (pres) 0835-0902 EG/Hausa nx items, Hausa #0840-0845 into eG rpt; f. (Sheedy-CA 12/7)
 9755 CANADA RCI 0108 EG 'SWLers Digest' flashingback to 1973 'RCI SW Club' show marking Wld Friendship YR; not// 11845,11940. lcl QRM. (Park-HI 11/20)
 9760 UK BBCWS 0502 Polish ID, nx, ID by oa, nx;434. (Trotto-FL 11/10)
 9765 MALTA Vo The Med 0635-0645 interim mx, women's pgm 'Sugar and Spice' (Schulze-FRG 10/16) /-0623 tk by yl abt myths, ancient Greece; 444. (Snyder-NY 11/25) /0820-0800* EG/AR tk by yl, cooking pgm, address/ Valette; g. (Jordan-PA 11/24)
 9765 USSR RM 2348-0000 EG piano yl ancr, chimes, nx; (Hankins-PA)
 9768t MALI RB 0001 EG nx; Mali relay. sl off freq. (Hankins-PA 11/9)
 0340 listeners mailbag pgm by oa & yl; vg.off freq (Morby 11/21)
 0011-0020 nx, ID (#770); g. (Mayer-PA 11/24)
 9770 USA WHRI 2200 PT rel pgm fromIndiana; (Carlsen 11/27)
 9780 YEMEN ARAB REP. R. San'a 0308 AR prayers; (Purdue-MN 11/8)
 9780 UAE Abu Dhabi 2010-2131* AR tk by oas, AR vocal mx, tk, (Jordan)
 9790 FR. GUIANA RFI relay 0327-0332 EG cnatry; (Purdue-MN 11/08)
 9800 PHILIPPINES FEBC #0900 Mand IS, ID, ancats, tk; QRM. (Park-HI)
 9800 FRANCE RFI 0315 EG wld nx w/ oa & yl, pgm (Cooper-CT 11/26)
 9810 USSR RM #0000-0030 FR IS, ID, nx, rpts; f. (Jordan-PA 11/24)
 9835 HUNGARY RB 0130-0200 EG IS, ID, nx by oa, cnatry; vg. (Mayer-PA)
 9840 VIETNAM VoV 1339 EG oa w/nx, yl w/ tk, ID; 343 (Trotto-FL 11/22) / 1003-1028 mx and singing w/ yl ancr; p. (Carlsen 12/4)
 9850 NEW ZEALAND RNZ 1000 EG nx, mx; (COOPER-CT 11/28)
 9850 EGYPT R.Cairo 0448 AR temp's in Cairo,Alex, and Asgut; g.(Wood)
 9851.8 EQ. GUINEA R.Africa 1945-2163* EG rel pgas w/mx. QRM de WYFR on 9852.5; (Tuchschere-WI 11/18) / 2128 NA a/off; 55544 (Schultze)
 9875 SPAIN REE 0600 SP IS, nx; g. (Wood-HI 10/29)
 9885 SWITZERLAND SRI 1727-1745 AR mx,tps, ID, sked, nx; (Dillon-GR)
 9895 NETHERLANDS RN 1710-1725 DUTCH nx, rpts, tk, ID;(Dillon-GR)
 9905 GREECE VoG #0500 NA, ID // 9425; f. (Wood-HI 11/2)
 9920 CHINA CPBS Minority Lengs #0500 ID, nx; g. (Wood-HI 11/26)
 9925 BELGIUM RTBF 0500 FR ID 'Ici Bruxelles' nx; g. (Wood-HI 11/2)
 10000 USA WWV 0818 EG as promised on 'Media Network', Dave Rosenthal reading the prop. forecast [very weak underneath WWVH] (Park-HI)
 10510 ALBANIA RT 0530 CH tk, ID, Ti-La-Na po tian tai; //16230 also g. (Wood-HI 10/30) / 0550 classical mx, ID by oa,NA; (Trotto-FL)
 11100 CHINA RB 1150 CH mx, tps, ID, nx by yl; //9380 (Prath-FL 11/12)
 11335 NO KOREA RP 1300 EG IS, NA?, freq; 242 (Lackmann-VA 11/30)
 11500 UNID 2216 CH mx; (Hankins-PA 10/30)
 11510 BANGLADISH RB 1820-1900* nx, econ. rev., mx; vg. (Renfrew-NY)
 11570 PAKISTAN RP 1700 Lang nx, mx, into EG end lcl dialects (Rubin-NY)
 11587 ISRAEL KOL 2227 FR/HB (Hankins-PA 10/30)
 11615 CLAND FA #1830 ID, pos Pakistan, patriotic mx, sked, times, freq, tk abt restoration of Pahlari dynasty snd the Shah's son. g. This freq used at other timesby R. Pakistan; (Wood-HI 10/26)
 11620 INDIA AIR 2300-2315 nx, cnatry; MacHarg-IN 11/24)
 11655 CZECHOSLOVAKIA RP 1536 EG oa w/nx, IDs, IS, tk; QRM/QRN. (Park)
 11655 USSR RS Peace & Progress 1416 EG rock mx, ID, tk; lcl QRN (Park)
 11665 KUWAIT RK 1802 EG rock mx; (Cooper-CT 11/12)
 11670 FRANCE RFI 1304 EG tk;333 (Snyder-NY 11/25)
 11685 CZECHOSLOVAKIA RP 1734 EG nx, ID, IS, cnatry; lcl QRM,QRN (Park)
 11695 CHINA RB 0432 EG ID, tkabt postal zip code in China; (Snyder-NY)
 11695 FR GUIANA R. Beijing via Montsinery #0400-0457 EG nx, cnatry, mx; g. (Wood-HI 11/11)
 11695 FRANCE RFI 1635-1700* FR nx, mx, sked; (Tuchschere-WI 11/22)
 11695 BELGIUM BRT #0655 DU IS, ID, nx; g. (Wood-HI 12/2)
 11705 JAPAN RCI via Yamata 2205 EG nx, hockey scores, ID; g. (Sheedy)
 11715 MALI pres. R.Beijing rel?0030 EG tk; (Hankins-PA 111)



LOG REPORT

section D

11700 and above

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- 11695nf FRENCH GUIANA R. Beijing relay in EG *0400-0455*, ID, world nx, tlks, pop mx, (Jordan PA 11/28) Note: Via G. Hauser's column in Greensburg, PA. Tribune Review
- 11715 LIBERIA VOA relay Monrovia in PT 1758, tlks, ID, pop mx, g (Sheedy CA 11/19)
- 11720 BULGARIA R. Sofia in EG 2140, mx pgm w/ new BG pop mx, //7115 (Prath FL 12/3)
- 11720 CANADA RC No. Svce. in Allig/BG 2215, nx, sports, wx (Figliozzi NY, Hankins PA)
- 11730 CANADA RCI in EG 2300, IS, ID, nx, "SWL Digest", exc (Mayer PA 11/13)
- 11730 SPAIN REE in SP *0458, IS, request rpts, f w/QRM R. Moscow in CH (Wood HI)
- 11730 UNITED ARAB EMIRATES R. Dubai in EG 1627, pop mx, nx, exc (Hankins PA)
- 11730 TURKEY VOT in TK *0355, IS, 0400 time sig, nx, f w/BBC QRM (Wood HI 11/14)
- 11730nf SEYCHELLES BBC relay in EG *0255, IS, site ID, into nx, f (Wood HI 12/5)
- 11735 BULGARIA R. Sofia in EG 0445, "Letter Box", g (Wood HI 11/7)
- 11740 SWAZILAND TWR Manzini in SH 0350*, ID, IS, f/QRM from VOPC (Wood HI 12/6)
- 117425 VATICAN STATE Vatican Radio w/Latin Mass 0640, g (Wood HI 12/6)
- 11745nf NORWAY RNI in NO *0455, ID in EG at s/on, nx in NO, g (Wood HI 11/2)
- 11750 PORTUGAL R. Liberty in RS 0300*, several ID's at s/off, BBC QRM, g (Sheedy CA)
- 11750nf NORWAY RNI in NO *0355, IS, ID in EG at s/on, nx, g after BBC s/off (Wood HI)
- 11750 MOROCCO VOA relay in EG 1952, math lesson, into PL 2000 (Tuchscherer WI 11/21)
- 11760nf SWAZILAND TWR Manzini in EG *0455, IS, ID, "Back to the Bible", f (Wood HI 12/6)
- 11765 BULGARIA R. Sofia in FR *0500, IS, nx, xmsn to Africa, g (Wood HI)
- 11775nf UNITED ARAB EMIRATES R. Dubai in EG 0530, nx, g (Wood HI)
- 11800 SRI LANKA SLBC in EG 0139, ID, nx, local mx, address (Schulze W. GERMANY)
- 11800nf CUBA RHC in FR 2220, LA ballads, nx, cmntry, IS, ID's, anthem at 2241 s/off, (Jordan PA 11/11) Note: Probable move from 11820 for this xmsn per WRTH Downlink
- 11800 ITALY RAI in Somali *0510-0530*, ID, bird chirp IS at 0530 s/off, g (Wood HI)
- 11805 GUAM KTVR in EG *0802, IS, ID, address, weak sig under R. Moscow (Alexander PA)
- 11810 ITALY RAI in AR *0535, IS, ID, Qur'an recitation, //15330 (Wood HI)
- 11810 W. GERMANY Deut. Welle in EG/GM 1950*, ID at s/off in both langs (Hankins PA)
- 11815 POLAND RP in PL *0458, IS, ID, nx, f/w/QRM from R. Moscow & RFE (Wood HI 12/6)
- 11820nf CUBA RHC in FR 2255-2345, Lam nx, Cuban urban & martial mx, f (Jordan PA 11/15)
- 11840 ROMANIA R. Bucharest in EG *0530, nx, //15340, 15380, 17720, 17790 (Wood HI)
- 11845nf BRAZIL BBC relay in EG *0900-1100*, IS, ID, pips, world nx, feature on recent English disasters, sports roundup (Jordan PA 11/27) Note: Probable ex-6185 xmsn.
- 11850 FINLAND RF in EG 1500, nx re UN day, press review, g (Wood HI)
- 11855 ALBANIA R. Tirana in FR *0600, xmsn to Africa, nx, g (Wood HI 11/27)
- 11860 INDIA AIR in EG 1055, nx, ID "Overseas service of All India Radio (Carlsen 12/4)
- 11865 PORTUGAL Deut. Welle relay Sines in HG 2115, mx, nx, ID (Paszkievicz WI 11/27)
- 11865 INDONESIA RRI in IN 1300, ID's, IS, 6 pips (Renfrew NY) in IN 0658, mx, ID 0700, vg (Hart MALAYSIA 12/2) in IN *0700, ID " warta berita", nx, g (Wood HI 12/2)
- 11870 JAPAN RJ in EG 0555, "Let's Practice Japanese", ID, skeds, f (Trotto FL 11/18)
- 11880 SPAIN REE in SP 2150, pop L Am mx, pips 2200, exc (Hankins PA 11/1)
- 11880 SOUTH AFRICA R. Five (HS) in EG 0530, ID, nx, f (Wood HI 12/1) in EG 0526, tlk, ID, rock mx, 2 commercials, nx headlines, f (Trotto FL 11/18)
- 11890 OMAN R. Oman in AR 1900, Big Ben type chimes, ID, nx, f-g (Lackmann VA 12/1)
- 11920 SPAIN REE in SP 0555, IS, ID, s/off at 0557, f (Wood HI 12/6)
- 11920 SRI LANKA TWR in EG 1200, children's relig pgm (MacHarg IN) in EG 1158-1300, organ IS, ID's, hymns (Renfrew NY 11/16) "Back to the Bible" 1229 (Trotto FL)
- 11925nf DENMARK RD in DN 1635, DN art interview, g (Wood HI 10/26)
- 11925nf TURKEY VOT in TK 0525, ID, Islamic tlk, g, //9445 f (Wood HI 12/5)
- 11930 NETHERLANDS RN Flevo in EG *0625, IS, ID, nx beamed to Africa, g (Wood HI 11/15)
- 11930nf NETHERLANDS ANTILLES TWR in EG 0430, then into SP, g (Wood HI) in EG 0310, "Hour of Freedom", exc, //9535 (Sheedy CA 11/18)
- 11940 CANADA RCI in EG 0129, mx from Montreal Jazz Festival, SWL pgm (Park HI 11/27)
- 11940 ROMANIA RB in EG *0530, freqs, nx, g (Wood HI) in EG 2105, carols (Hankins PA)
- 11950usb SWEDEN RS in EG 0230, f sig beamed to Asia/Australia (Figliozzi NY 12/9) in RS 0300, IS, multi-lingual ID, into SP nx, g (Wood HI)
- 11955 ANGOLA RNA in African lang. 0600, ID, hi-life mx, g (Wood HI 12/6)
- 11960 GREECE VOA relay Rhodes in AR 2003, nx to 2013 (Tuchscherer WI 11/14)
- 11965 UNITED ARAB EMIRATES Abu Dhabi in EG 2200, nx, //9595 (Tuchscherer WI 11/21) in EG 2350, pop & AR mx, ID, addr., into AR 0000 (Paszkievicz WI 11/24) in EG/AR 2220-0000+, nx briefs, phone interview, rock mx, req rpts (Jordan PA 11/21)
- 11985 BELGIUM BRT in DT *0555, IS, nx, g (Wood HI)

12010 AUSTRIA RAI in FR 1930, ID, into nx, tlks, //13730 (KPrath FL 11/13)

12015 MONGOLIA(p) R. Ulan Bator in EG 1205, nx, QRM-no ID possible (Snyder NY 11/21)
ED: PWBR lists Mongolia as only EG xmsn at 1200 making presumption 99 % valid.
How about trying the parallels on 9615 and 11990 the next time as a check.

12035 SPAIN REE in SP 1745, live soccer, "noticias" at 1800 (Dillon GREECE 11/6)

12095 UNITED KINGDOM BBC London in EG 1627, "The Queen's Parliament", nx (Dillon 11/6)

12105?? ALASKA KNLS in JP 2129, tlk & musical selections, p (Levison PA 11/2) ED: This
is an offbeat freq for KNLS. Has anyone else logged here? Could be a spur.

13610 EAST GERMANY RFI in EG *0559, xmsn to Africa, nx, off 0645, g (Wood HI)

13650 NO. KOREA R. Pyongyang in EG 2300, nx, cmntry, mx, skeds, //11735 (MacHarg IN,
Tuchscherer WI) in EG *0600, IS, sked, nx, g, //15180 (Wood HI 11/30)

13662 COSTA RICA RFPi in EG *0100, sked, "Round Table" discussion, f (Jordan PA 11/19)

13685nf FRENCH GUIANA R. Beijing relay in SP 0158-0223, s/on w/RFI ID in FR, then Radio
Beijing IS and "Aqui Pekin", bulletins in SP, mx bits (Tuchscherer WI 11/18) in
SP 0205-0257*, freqs, sked, ID, L Am & CH mx, discussions (Jordan PA, Sheedy CA)

13685 SWITZERLAND SRI in EG 1545, "Listener's Letters" (Prath FL 11/6)

13730 AUSTRIA RAI in GM 1600, IS, Multi-lang ID, nx, into FR 1605 (Prath FL 11/6)

13750 ISRAEL Kol Israel in HB *0600, time signal, nx, f (Wood HI)

13780 WEST GERMANY Deut. Welle in GM 1500, ID, nx, political tlks, //15275 (Prath FL)

15030 CHINA CPBS Beijing in EG 0630, EG lesson, story on US baby showers (Wood 12/5)

15050nf TURKEY VOT in langs 1255-1531, tlks, pips 1300, ID, nx, exotic vocals & inst'ls,
w/ME flavor, fqy annmts, comedy, f (Jordan PA 11/21)

15070 UNITED KINGDOM BBC London in EG 1700, world nx, cmntry, vg (Dillon GREECE 11/9)

15100nf PHILIPPINE IS. FEBC Manila in EG 0850, "The Sound Alternative", relig pgm, ID,
"Back to the Bible", exc (Hart MALAYSIA 10/28)

15105 TURKEY VOT in TK 0505, TK mx, ID, //11925, 9445, all f (Wood HI 11/13)

15110 INDIA AIR in EG 0100, nx, "Computers in India", vg, //11745 (Hart MALAYSIA 12/2)

15115 NO. KOREA R. Pyongyang in EG 0640, tlk on inventions, //15180, g (Wood HI 11/10)

15120 VATICAN STATE VR w/Latin rosary 0650, //9645, 11715, all g (Wood HI 12/5)

15120 NIGERIA VON in FR *0600, ID, nx, humming modulation, g (Wood HI)

15125 GUAM AWR in EG 2358, ID, tlk on archeology, vg (Hart MALAYSIA 12/2)

15130 MALI R. Beijing relay in Hausa 1740, CH style ezl mx, ID, s/off at 1756 w/IS
and "Flight of the Bumblebee", g (Sheedy CA 11/19)

15140 BULGARIA R. Sofia in FR *0500, xmsn to Africa, IS, ID, nx, BBC QRM (Wood HI)

15140 SAUDI ARABIA BSKSA Riyadh in AR 0500, ID, health pgm, g (Wood HI 11/11)

15153 CUBA RHC in SP 2125, ID, IS, tlks (Hankins PA 11/5) Note: Listed fqy is 15150.

15160 NO. KOREA R. Pyongyang in EG 0010, tlk on devel since liberation (Hart MALAYSIA)

15165 CZECHOSLOVAKIA R. Prague in AR *1628, multi-lang ID, nx, g, //15110 (Wood HI)

15171 SOCIETY IS. Tahiti in FR/TT 0600, nx, mx, tlks, g (Teruki JAPAN 11/23)

15175nf AUSTRIA ORF in GM 1700, ID, nx, g (Wood HI 11/1)

15175 NORWAY RNI in NO *0455, ID in NO/EG, into nx in NO, g (Wood HI 11/1)

15180 CHINA R. Beijing in EG *0400-0457*, mailbag, g after Pyongyang s/off (Wood HI)

15185 FINLAND RF in FN *1600, list of fqys, nx, //9640, 11850, all g (Wood HI 11/1)

15195nf BANGLADESH RB in EG 1242, nx, ID at 1243, into mx, //17710, p (Trotto FL 11/8)

15215 ALGERIA R. Algiers in EG 1910, nx, mx, ID (MacHarg IN 11/24)

15235 LIBYA VO the Great Arab Homeland in AR 0330, ID, into VO People's Revolution
in Palestine, ID "huna saut ul thworat ul shaabiya fi Filastin", g (Wood HI)

15245nf? AUSTRALIA RA in EG 0655, ID, RAF report on airshow, nx (Schulze W. GERMANY)
ED: Is this a move from 15240? Anyone else catch this split frequency?

15250 SRI LANKA VOA relay Colombo in EG 0117, nx, vg (Tuchscherer WI 11/24)

15250nf SEYCHELLES FEBA in Amharic *0400, IS, ID, light mx (Wood HI, Trotto FL 11/18)

15260 ASCENSION IS. BBC relay in EG 2135, rock mx in the movies, f (Park HI 11/23)

15265 PORTUGAL RDP in PT 1525, futebol match, g (Wood HI 11/27)

15265 BRAZIL RN de Brazil in EG 1845, instrum mx, sked/fqys, s/off 1850, IS 1856, ID's
in GM and into GM targeted to Europe at 1900, p (Lackmann VA 11/30)

15275 PHILIPPINE IS. R. Veritas Asia in lang 0032, ID, mx, tlks, exc (Hart MALAYSIA)

15285nf AUSTRALIA RA in EG 0555, cricket match, fqy annct to NZ/Pac, g (Wood HI 12/6)

15290 CHINA R. Beijing in EG *0400-0456*, nx, g, //15180 (Wood HI 11/14)

15325 SEYCHELLES FEBA in Tamil 1330, S. Asian hymn, tlk, ID in EG, IS, f (Lackmann VA)

15325 CANADA RCI in HG 1800, IS, ID, annmts, nx, exc (Mayer PA 11/13)

15330 SWEDEN RS in EG 1550, mailbag, tlks re Swedish cooking, off 1557 w/sked & fqys
(Prath FL 11/20) in EG 1530, nx of police murder investigation, g (Wood HI)

15335 SAUDI ARABIA BSKSA in SH *0455, IS, NA, g but hummy modul (Wood HI 11/11)

15340 CUBA RHC in Guarani & Quechua 2345, tlks, folk & flute mx, ID (Jordan PA 11/15)

15340 NO. KOREA R. Pyongyang in FR *0600, IS, sked, nx, f (Wood HI 11/30)

15345 SWEDEN RS in EG 1401, nx, Swedish guitar mx (Snyder NY 11/25)

15345 TAIWAN VOFC in EG 0230, ID, Chinese mx, lang lesson (Tuchscherer WI 11/15)

15350 LUXEMBOURG RTL in FR 0455, ads, pop mx, ID "RTL", g (Wood HI 11/14)

15360 FRANCE RFI in EG 1627, "P.O. Box 9516" w/listeners' letters (Prath FL 11/20)

15365 SOUTH AFRICA RSA in FR 0429, IS, ID in EG/FR, Afrn mx, f (Snyder NY 11/21) in EG 2010, nx, fqys, "This is South Africa", g (Trotto FL 11/18)

15365 AUSTRALIA RA in IN 0058, tlk, ID, IS, s/off 0100, f (Trotto FL 11/13)

15375 SO. KOREA RK in CH 0006, Korean lessons, p (Park HI 11/24) in IN 2258, KR pop mx tlk, signature melody 2330 and into CH, p (Lackmann VA 11/30)

15395nf UNITED ARAB EMIRATES Abu Dhabi in AR 0355, s/off at 0400, g (Wood HI 11/30)

15400 ASCENSION IS. BBC relay in EG 1605, nx, "The Queen's Parliament" (Dillon GREECE)

15415 IRAQ VO Masses in AR 0610, AR mx, g, //15110, 15310 (Teruki JAPAN 11/13)

15430 SAUDI ARABIA BSKSA in Somali 0440, nx, g (Wood HI 12/1) in AR *0500, g (Teruki)

15435 UNITED ARAB EMIRATES R. Dubai in EG 1640-1645*, nx, wx, into AR, ID (Prath FL) in AR 0415, ID, AR mx, QRM from R. Moscow, //17830 (Wood HI 12/6)

15450nf AUSTRIA ORF in GM 0600, IS, ID, fqys, "Osterreichjournal", g (Wood HI 12/5) in EG 1245, item on UN against drugs, 50th anniversary of GM Anschluss (Snyder NY)

15455 CHINA R. Beijing in EG *0400, ID, nx, NAM bean, g (Wood HI 12/1)

15465 PHILIPPINE IS. FEBC in Burmese 0036, tlk, relig hymns, f (Daly NY 11/23)

15476 ANTIARCTICA RN Arcangel in SP 2345-0038*, pops, ballads, ID, fqy/addr, abruptly off in mid-song (Alexander PA) *2202 w/similar pgm, full ID 2300 (Daly NY 11/24)

15480 PHILIPPINE IS. FEBC in EG 0000, IS, ID, nx, p (Lackmann VA 12/1)

15485 ISRAEL Kol Israel in RS *1625, ID, nx, //15095, both jammed (Wood HI)

15495 KUWAIT R. Kuwait in AR 0400, Koran pgm, g (Teruki JAPAN 11/30)

15505 KUWAIT Bahrain via R. Kuwait relay in AR 1130, ID, ME vocals/instrs, tlk, pips, fanfare, nx, another ID 1210, more vocals (D'Angelo PA 11/16, Schulze W. GERM'Y)

15513 PAKISTAN RP in Urdu 0455-0459*, film mx, g, //17725 (Wood HI 11/13)

15555 EGYPT Clandestine Iran's Flag of Freedom R. in Farsi 0505, speech (Wood HI 12/6)

15575 SO. KOREA RK in EG 2310, nx, folk mx (MacHarg IN) in SP 0145 (Figliozzi NY 12/9)

15605 PAKISTAN RP in Urdu 1415, ME mx, ID (Trotto FL) nx in Urdu 0850 (Schulze W.GERM)

15650nf USA KUSW Salt Lake City in EG 1950, ID, Fogerty court battle, exc (Trotto FL)

15672 ICELAND ISBS in IC 2302-2331*, tlk, 9 note mx bridge, //17558 (Alexander PA)

16230 ALBANIA R. Tirana in CH 1350-1357*, tlk, classical mx, ID, NA (Trotto FL 11/6) in CH 0555-0557*, Albanian folk mx, abruptly off in middle of NA, g (Wood HI)

17595 EGYPT R. Cairo in EG 1325, clock chimes 1330, into Bengali (Lackmann VA 11/30)

17558usb ICELAND ISBS in IC 1936, tlk, chimes, ID, "Utvarp Reykjavik" (Figliozzi NY 11/2)

17660 PAKISTAN RP in Urdu 0455, ID, film mx, g (Wood HI 11/18)

17705 UNITED ARAB EMIRATES Abu Dhabi in AR 0330, AR mx, nx, g (Teruki JAPAN 11/28)

17705 CZECHOSLOVAKIA R. Prague in EG 1540, nx, ID, Afro-Asian Svce (Prath FL 11/24)

17710 BANGLADESH RB in EG 1247, mailbag, ID, addr, AR type vocal, f (Snyder NY 11/25)

17715 AUSTRALIA RA in EG 0729, review of Eavesdropper antenna, f (Park HI 11/27)

17720 ROMANIA R. Bucharest in EG *0525, nx, f w/QRM VOHC, //15380 (Wood HI 12/1)

17725 PAKISTAN RP in Gujrati 0400, ID "Gujrati Service R. Pakistan", g (Wood HI 12/6)

17730 VATICAN STATE VR in EG 0615, nx of Africa, g (Wood HI 12/6)

17730 CZECHOSLOVAKIA R. Prague in EG *1530, nx beamed to Afro-Asia, QRM (Wood HI)

17730 BRAZIL SRI via Radiobras in EG 0200, "Swiss Merry-go-Round", f (Park HI 11/27)

17770 OMAN R. Onan in AR 0545, ID "Sawt Onan min Masqat", AR mx, g (Wood HI 11/27)

17780 NO. MARIANAS KYOI Saipan in EG 0700, ad for Chris. Sci. Mon., g (Wood HI 11/27)

17785 PAKISTAN RP in AR *0430, sked, azan, nx, g (Wood HI 11/30)

17785 INDIA AIR Delhi in Farsi 0410, nx, into AR 0430, g (Wood HI 12/6)

17795 FRANCE RFI in EG 1632, "Paris Calling Africa", press review, p (Park HI 11/7)

17805 INDIA AIR Delhi in EG 0500, live cricket match, g (Wood HI 11/13)

17810 JAPAN RJ in EG 2315, cmtry on pollution in Japan, vg (Morby 11/20)

17815 BRAZIL R. Cultura in PT 0000, ID, nx about US election of Bush (Prath FL 11/10)

17820 CANADA RCI in EG 1715, ID, nx, "Week in Review", IS, into GM 1730 (Mayer PA) in EG 1818, pgm re blacks in Canada, ID, Hongkong invest. in Can. (Dillon GREECE)

17820 UNITED ARAB EMIRATES Abu Dhabi in AR 0408, nx, mx, g (Wood HI 12/6) in AR 1130, AR mx, g, //17705, 21735 (Teruki JAPAN 11/30)

17830 UNITED ARAB EMIRATES R. Dubai in EG 0530, nx w/British accent, g (Wood HI 11/14)

17840 NORWAY RNI in NO 1530, nx from Bergen, g (Wood HI)

17845 JAPAN RJ in EG 0100, nx, ID, fqys, vg, //17810, 15195 (Morby 11/17)

17850 KUWAIT R. Kuwait in AR 0512, temperatures in Kuwait towns, g (Wood HI 11/14)

17855 UNITED KINGDOM VOA relay in RS 1300, ID, nx, Gorbachev visit (Prath FL 12/3)

17855 GUAM Adventist World Radio in CH *0700, religious pgm, g (Wood HI 11/27)

17860 RWANDA D. welle relay Kigali in GM 1944, ID, fqys, jazz, exc (Tuchscherer WI)

17865 GUAM Adventist World Radio 0700* CH, into EG, advise retune 17855, g (Wood HI)

17870 LIBERIA VOA relay Monrovia in EG 1644, "Nightline Africa", tlks (Park HI 11/7)

178775 COLOMBIA R. Nacional in SP 0500, ID, classical mx, g (Wood HI 11/20)

17880 EAST GERMANY RBI in EG 1311* w/sked, fqys, addr (Prath FL) in EG 1306, tlks, f (Snyder NY) in EG *1345, IS 1340, ID, nx, feature, f (Jordan PA 11/15)

17880 IRAQ VO the Masses in AR *0900, AR mx, g (Teruki JAPAN 11/23)

17885 KUWAIT R. Kuwait in AR *0900-1100*, AR mx, tlk, nx, g (Teruki JAPAN 11/23)

- 21450nf EAST GERMANY RBI in EG 1230, mx, ID 1300, xmsn to Asia, g (Hart MALAYSIA 11/22)
- 21465 EAST GERMANY RBI in EG 1427, hrd s/off to S.E. Asia w/skeds (Prath FL 11/6)
- 21470 CYPRUS BBC relay Limassol in EG *0455, IS, site ID, nx, vg (Wood HI 11/11)
- 21477nf SPAIN RNE in SP 1800-1900*, several SP cities mentioned, remote reports, pips 1800, may have been special b/c marking national event (Figliozzi NY 11/20) ED: WRTH does not list any SW outlets for RNE (home service). Is this a first?
- 21485 MADAGASCAR R. Nederlands relay in EG 0851, "Media Network", f (Park HI 11/17)
- 21490 FRANCE? RFI in FR 1636, long dissertation, mx (Hankins PA 11/7) ED: No ID was reported. I wonder if this xmsn was ORF, Austria which goes from GM to FR at 1630. It is doubtful that both ORF & RFI would b/c in FR at same fqy & time.
- 21490 PHILIPPINE IS. VOA relay in RS 0837, post mortem on US election (Park HI 11/10)
- 21535nf? SWEDEN RSI in EG/FR 1425-30*, *1500, off 1430 in EG,s/on 1500 in FR (Jordan PA) ED: Does anyone have more info on this unlisted fqy? Or even hrd it here?
- 21535 SOUTH AFRICA RSA in EG *1400, IS, ID, S. Afr nx, p (Jordan PA 11/9)
- 215598nf? SWITZERLAND Red Cross R. in EG 2340, nx of RC activities in Afghanistan, RC has run seminar on IRC in Phnompenh, f (Lackmann VA 12/1) Is this a spur perhaps?
- 21590 SOUTH AFRICA RSA in EG 1535, rpt on FR friends of people of S. Afr. (Snyder NY) in FR 1954, birdchirp & guitar IS, tlks, ID 1959 (Hankins PA 11/7)
- 21600nf? NO. KOREA R. Pyongyang in CH *0500, ID, nx (Wood HI) ED: Dr. Wood conjectures that this one may be third harmonic of 7200.
- 21600 WEST GERMANY Deut. Welle in EG 1531, ID, mx, economic rpt (Snyder NY 11/25)
- 21605 UNITED ARAB EMIRATES R. Dubai in AR 0710, ID, AR mx, g (Wood HI)
- 21615nf SWEDEN RSI IN EG *1400-1430*, "Nordic News Week", tlks re nuclear disasters, racism in Sweden, AIDS campaign etc., exc (Jordan PA 12/3)
- 21630 SWITZERLAND SRI in EG 1537, nx, ID, top stories of the day, f (Snyder NY 11/25)
- 21660 ISRAEL Kol Israel in EG *0500, IS, ID, nx, into FR 0515, g (Wood HI 11/1)
- 21680 MALTA D. Welle relay in lang? 1505-1600*, site ID in EG 1530 (Jordan PA 11/19)
- 21690 ITALY RAI in Somali *1640, ID, nx, piano mx, off 1654*, //17780 (Wood HI 11/1) in IT 1433-1545, sports coverage, spot anncts, ID, f (Jordan 11/20)
- 21695 GABON R. Japan relay via Moyabi w/IS *0655, into EG 0700, nx, g (Wood HI 11/19)
- 21700 GABON R. Japan relay via Moyabi in EG 1534, Man w/JP song, f (Snyder NY 11/25)
- 21735nf UNITED ARAB EMIRATES Abu Dhabi in AR 0500, time sig, ID, into Muslim pgm, g (Wood HI 11/18) in AR *0401, AR mx, g, //17705 (Teruki JAPAN 11/26)
- 21760 ISRAEL Kol Israel w/multi-langs *1400-1525*, xmsn seemed to be in 3 lang segmts HB, RS, & AR w/shalom Kol Israel at end of each, f (Jordan PA 12/2)
- 21810 BELGIUM BRT in EG 1640, "Brussels calling", SWL pgm, sked (Jordan PA 11/19)
- 25665 PORTUGAL R. Liberty in RS 1549, no jamming noted, g (Figliozzi NY 11/8) in RS 1350-1410, ID "Govorit R. Svoboda", hymn, tlks, p w/jamming (Jordan PA 11/14)
- 25730 NORWAY RNI in NO 1240, tlks, ID in EG & NO, off 1246 (Prath FL 11/19)
- 25790nf SOUTH AFRICA RSA in EG 1528, nx, environmental tlk (Tuchscherer WI 11/13) in EG 1530 w/"Down Our Way" pgm, exc (Eckman CA 11/19) in EG 1400, g (Figliozzi NY) in EG *1400-1445, s/on NA, ID, fqys, nx, several features, vg (Jordan PA)
- 25810nf FRANCE RFI in FR 1306, nx read by W & M alternately, f (Snyder NY)
- 25820nf FRANCE RFI in FR 1515, IS, ID, nx (Tuchscherer WI 11/13) "Medias France Inter-continents" in FR 1515, trumpet IS, ID's, nx items intended for rebroadcast by local stations interspersed w/regular RFI IS (Figliozzi NY 11/15) in FR 1305, ID, tlks by QM & YL, //17620 (Prath FL 11/19)
- 25900 UNITED ARAB EMIRATES Abu Dhabi in AR 1503, all ME mx, ID (Tuchscherer WI 11/24) in AR 0829, classical ME mx, readings, f (Park HI 11/10) in AR 1215, local mx, pipe 1230, ID, nx, addr, exc (Schulze W. GERMANY 11/12) in AR 1352-1603*, AR vocals/instrumentals, ID, 8 min. of nx?, recitations, chants (Jordan PA 11/13)
- 25909 UNIDENTIFIED R. Dubai or R. Trans Europe in AR 1545, tlk, AR mx, off abruptly 1600 after tent. ID for R. Trans Europe ? (Figliozzi NY 11/8)

 Quite a slew of reports this month including more and more in the 21 and 25 mhz bands. Dr. Wood, who speaks a dozen or so languages fluently, has contributed many quality loggings this time. His QTH is on the Big Island near Hilo where he has several super beverage antennas capable of hauling in the toughest DX. As usual, loggings listed in last month's FRENEX have not been repeated this month. Please consult the December issue for a more complete update. Some loggings had to be discarded because they did not include essential information like time of logging. Please double-check to be certain that all details are included in your reports. Best wishes for a happy and prosperous New Year to all!

Thomas R. Sundstrom	Telex:	6502446376 (via WUI)
PO Box 2275	MCI Mail:	244-6376
Vincentown	The Source:	BCF811
NJ 08088-2275	Compuserve:	(send via MCI Mail)
	Packet Radio:	W2XQ @ WB2MNF
	Pinelands RBBS:	609-859-1910

Mark February 24-26 on your calendar for the 2nd Annual Winter SWL Fest. More info elsewhere in these pages, including a registration form. Come join us for some fun and festivities.

A note from Ken Ottenheimer of Long Beach, NY, reminds me that we have new members who may not know how to interpret these listings. The first two columns are Universal Coordinated Time (UTC), also known as Greenwich Mean Time (GMT), in a 24-hour format. Subtract 5 hours for EST. Days referred to in the notes column are UTC days, e.g., Sat 0220 equates to Fri 9:20 p.m. EST. Frequencies are in kHz. Not all transmissions are directed to NA and some won't be heard except under the best of conditions. Use the target area column: "Am" or "NA" are your best bet. As some broadcasts are directed to multiple target areas, check all frequencies for the best signal.

The solar flux went through the roof, reaching over 250 on the weekend of December 17-18. These numbers were last seen in the fall of 1982. Radio Yerevan, a mere whisper in the ether a week earlier, was heard on the Sony 2010 with the whip antenna, and 10-20 db/s9 on the NRDs, all frequencies: news in English circa 0360 on 15455 (competing with Beijing), 15180 and 13645. The news varies from 2 to 5 minutes in length. Bob Brown, KW3F, and I, using 2m FM as a link, chased around the bands. On the 18th, Turkiye Polis Radyosu, 1 kw on 6340, was heard signing on at 0458 -- absolutely amazing signal at 10 db/9, probably the strongest Bob has ever heard it, new for me. Tahiti-15170.8, R New Zealand-15150, both nights with s7-s9 signals after 03 UT. R Veritas Asia-15325 is heard most evenings. Two pirates were heard on the 18th: Falling Star Radio-6241 was on 0045-0600 UT, excellent, and WENJ-6240 was on from about 22 to 24 UT, also with a good signal, taking telephone calls. WENJ was on the air again Christmas Eve as was Scotland's Weekend Music Radio-6317 kHz.

The solar flux was on a downhill run after peaking at 252. Given the nominal 27-day cycle, look for conditions to peak again in mid-January. Friday, December 30, saw the flux drop to 180 and a flare at 1802 UTC decimated the bands. I was listening at the time, and thought something happened to the receivers.

Other notes: Thanks to John Carson of Norman, OK, for schedules from New Zealand, South Africa regionals and KSDA! On some days there is a resemblance to English in the news from Sudan's National Unity Radio, 1420-30 on 9435. Thanks to Bob Brown for the tip. George Jacobs told me he expects WSHB (Cyprus Creek, SC) station on the air in early 1989; the schedule is now added. The second propagation graph shows monthly solar flux averages and +/- 1 standard deviation for the last three years. Two-thirds of all values fall within +/- 1 S.D.; a wide range indicates widely fluctuating values during the month in question. While listening to R for Peace on 21560.6 kHz at 21 UT December 30, the signal left the air abruptly in mid-transmission at 2123 and did not return, nor were they on 13660-3 later that evening.

Changes entered between 11/25/88 and 12/30/88.

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstro, W2XU

Start End Time (UTC) (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000 0100	Australia	R Australia	21740	17795	17750	15320	15240	15160	15140		Am/Pac/PapMG regional		12/10/88
0000 0200	Luxembourg	R Luxembourg	6090										12/10/88
0000 0200	USA	WSHB	13760	11980							CA/SA/NE Canada	167/25 deg	12/19/88
0030 0100	USSR	R Kiev	15455	15180	13645	9765	7400	7335			NA		12/30/88
0045 0130	German Dem Rep	R Berlin Int'l	11890	6080							ENA		11/25/88
0100 0200	Australia	R Australia	21740	17795	17750	17715	15395	15320	15240	15180	As/Pac/PapMG		12/10/88
0100 0300	Iraq	R Baghdad	9560	7280							NA/SA/Ind/Pakis W Eu/WA		12/24/88
0100 0145	Yugoslavia	R Yugoslavia	11735	9620	5980						NA	News in Eng ex Su	12/19/88
0130 0138	Greece	V of Greece	11645	9420	7430						NA		12/05/88
0130 0200	Philippines	R Veritas Asia	15325	15275							As		12/10/88
0200 0300	Australia	R Australia	21740	17795	17750	15395	15240	15180	15160		As/Pac/PapMG Americas		12/19/88
0200 0400	Cuba	R Havana	9655	6140							ENA		11/25/88
0200 0245	German Dem Rep	R Berlin Int'l	11890	6080							As	Eng 0200-0230	12/28/88
0200 0700	Guam	KSDA	17865	15225							Eu/CA/SA		12/04/88
0200 0400	USA	WHRI	9495	7520							CA/Canada	188/315 deg	12/19/88
0200 0400	USA	WSWB	13760	9745							ENA/WNA		11/25/88
0245 0330	German Dem Rep	R Berlin Int'l	11890	11785	9620	6080					As/Pac/PapMG		12/10/88
0300 0400	Australia	R Australia	21740	17795	17750	17715	15395	15320	15240	15160	As/Pac/PapMG/Afr WNA	9690 Spain;9770 Mali	12/10/88
0300 0400	China	R Beijing	15455	11715	9770	9490	9675						12/28/88
0300 0510	South Africa	Radio 5	4880										12/28/88
0300 0420	South Africa	Radio Orange	3215								NA		12/30/88
0300 0330	USSR	R Kiev	15455	15180	13645	9765	7400	7335			LA		11/25/88
0330 0415	German Dem Rep	R Berlin Int'l	11890	9730	6165						S As		11/26/88
0350 0410	Italy	RAI	15330	11905	9710						WNA	news in English	12/19/88
0350 0400	USSR	R Yerevan	15455	15180	13645								12/10/88
0400 0500	Australia	R Australia	21740	17795	17750	17715	15395	15320	15240	15160	As/Pac/PapMG/Afr WNA	25h v French Guinea	12/04/88
0400 0500	China	R Beijing	11980	11695	9675							6140 to 0450	12/19/88
0400 0600	Cuba	R Havana	11760	9655	6140	5965					Americas		12/19/88

0400	0445	German Dem Rep	R Berlin Int'l	11785 9620	MNA	11/25/88
0400	0450	North Korea	R Pyongyang	17765 15180 15160	SE As	11/25/88
0400	0600	USA	WHR1	9495 7520	Eu/CA/SA	12/04/88
0400	0800	USA	WSRB	9435 6005	245/315 deg	12/19/88
0400	0800	USSR	R Moscow	13645 12040 12010 11710 11890	CA/Canada	12/24/88
0425	1540	South Africa	Radio Dranje	7285	MNA	12/28/88
0445	0530	German Dem Rep	R Berlin Int'l	11785 9620	MNA	11/25/88
0500	0600	Australia	R Australia	21740 17795 17750 17715 15395 15315 15240 15160	As/Pac/PapMG	12/10/88
0500	2200	Jordan	R Jordan	9560	As/Pac/PapMG	12/11/88
0515	1620	South Africa	Radio 5	9665	As/Pac/PapMG	12/28/88
0530	0555	Romania	R Bucharest	17790 17720 15380 15340 11940 11830	Afr	12/26/88
0600	0630	Australia	R Australia	21740 17750 17715 15395 15315 15240 15160 11945	As/Pac/PapMG/Afr	12/10/88
0600	0645	German Dem Rep	R Berlin Int'l	13610 11810 9645 6115 5965	Af/ME/Eu	11/25/88
0600	0650	North Korea	R Pyongyang	15180 15160 15115 13650	SE As	11/25/88
0615	0700	German Dem Rep	R Berlin Int'l	17880 15240	As	11/25/88
0630	0700	Australia	R Australia	21740 17750 17715 15395 15315 15240 15160 11945	As/Pac/PapMG/Afr	12/10/88
0700	0730	Australia	R Australia	21740 17750 17715 19395 15240 15160 9655	As/Pac/PapMG	12/10/88
0730	0800	Australia	R Australia	17750 17715 15395 9655	As/Pac/PapMG	12/10/88
0800	0830	Australia	R Australia	17750 17715 15395 9655 9580	As/Pac/PapMG	12/10/88
0800	0850	North Korea	R Pyongyang	15180 15160 15115 11830	SE As	11/25/88
0800	0900	USA	KWLS	6045	As	11/25/88
0800	1000	USA	WSRB	9495	SA	12/19/88
0830	0900	Australia	R Australia	17750 17715 15395 11720 9655 5980	As/Pac/PapMG	12/10/88
0845	0930	German Dem Rep	R Berlin Int'l	21465 21540 9730 7185 6115 6040	Far E/Eu	11/25/88
0900	1115	New Zealand	R New Zealand Int'l	11780 9850	Aus/Melanesia	12/26/88
0930	1030	Australia	R Australia	15415 9760 9655 9580	As/Pac/PapMG	12/10/88
1000	1045	German Dem Rep	R Berlin Int'l	21465 21540 11890	As/Pac/PapMG	11/25/88
1000	1100	Guam	KSDA	11980 9465	As	12/28/88
1000	1200	USA	WSRB	9495 6150	Far E/ENA	12/19/88
1045	1130	German Dem Rep	R Berlin Int'l	6115	Eu	11/25/88
1200	1245	German Dem Rep	R Berlin Int'l	17775 13700 9665 6115	Eu/ME	11/25/88
1200	1400	USA	WSRB	13760 6150	CA/ME Canada	12/19/88
1230	1315	German Dem Rep	R Berlin Int'l	21540 21465 17880 15445	As	11/25/88
1230	1300	Sweden	R Sweden	21570 17815 9565	As/Pac	12/17/88
1300	1400	China	R Beijing	15280 11660 11600	MNA/SE As/S Pac	12/10/88
1300	1350	North Korea	R Pyongyang	11735 11335 9600 9345 9325	SE As/Am/Eu	11/25/88
1300	1355	Romania	R Bucharest	21550 17850 15405 11940	Eu	12/26/88
1300	1330	Yugoslavia	R Yugoslavia	11735 9620 5980	W Eu/NA	12/18/88
1330	1415	German Dem Rep	R Berlin Int'l	13700	ME	11/25/88

1345	1430	German Dem Rep	R Berlin Int'l	21540	21465	17880	15445	As	11/25/88		
1400	1500	Australia	R Australia	9580	7205	6080	6060	As/Pac/PapMG	12/10/88		
1400	1500	China	R Beijing	15165	11600	7405	S Asia/MNA	12/04/88			
1400	1445	German Dem Rep	R Berlin Int'l	6115			Eu	11/25/88			
1400	1700	Guan	KSWA	11980	9830		As/India	12/28/88			
1400	1430	Sweden	R Sweden	21615	17815	15345	NA/As/Pac	11/30/88			
1400	1600	USA	WSNB	17640	11580		CA/Canada	12/19/88			
1420	1430	Sudan	National Unity Radio	9435				Eng 1630-1700			
1445	1530	German Dem Rep	R Berlin Int'l	9730			Eu	12/19/88			
1500	1530	Australia	R Australia	9580	7215	7205	6080	6060	5995	11/25/88	
1500	1640	Guan	KTRR	11650			India	11/30/88			
1500	1550	North Korea	R Pyongyang	11740	9325		Eu	11/25/88			
1500	1530	Philippines	R Veritas Asia	15460	15220		As	12/19/88			
1530	1900	Australia	R Australia	9580	7215	7205	6080	6060	6035	5995	12/10/88
1530	1600	Sweden	R Sweden	17815	15330	15240	As/Pac/PapMG	As/Pac/E Afr	11/30/88		
1545	1630	German Dem Rep	R Berlin Int'l	17880	15240		As	11/25/88			
1545	1930	South Africa	Radio Orange	3215			ECS Afr	12/28/88			
1600	1700	China	R Beijing	15130	11715	9570	7295	19 & 25a v Mali	12/10/88		
1625	2200	South Africa	Radio 5	4880				12/28/88			
1645	1730	German Dem Rep	R Berlin Int'l	17775	15255	9730	7295	Af/Eu	11/25/88		
1700	1800	China	R Beijing	9570	9500	7295	ECS Afr	12/10/88			
1700	1750	North Korea	R Pyongyang	11740	9325		Eu	11/25/88			
1730	2015	New Zealand	R New Zealand Int'l	15150	11780		Pac	12/26/88			
1730	1800	Romania	R Bucharest	15365	15270	11940	11790	Afr	12/26/88		
1800	1900	USA	KWLS	7355			As	11/25/88			
1815	1900	Bangladesh	R Bangladesh	7520			Eu/NE	11/25/88			
1815	1900	German Dem Rep	R Berlin Int'l	9730	7295	7260	Eu	11/25/88			
1830	1915	German Dem Rep	R Berlin Int'l	15255	15145	13610	9665	Af	11/25/88		
1900	1930	Afghanistan	R Afghanistan	9665	7160		Eu	11/25/88			
1900	2000	Australia	R Australia	9580	7215	7205	6080	6060	6035	12/10/88	
1900	1930	USSR	R Kiev	7115	6165	6090	6010	Eu	12/30/88		
1920	1930	Greece	V of Greece	7430	6225			Eu	12/11/88		
1930	2025	Iran	R Tehran	9022	6080			NE/N Af/Eu/EWA	12/11/88		
1930	2025	Romania	R Bucharest	7195	7105	6105	5950	Eu	12/26/88		
1930	0300	South Africa	Radio Orion	3955	3320				12/28/88		
1930	2000	Vugoslavia	R Yugoslavia	9660	9620	5980		Af/Eu	12/18/88		
1935	1955	Italy	RAI	9575	7290	7275		Great Britain	11/26/88		
1945	2045	India	AIR	11860	11620	9910	9755	7412	605/W Eu/Afr	12/26/88	
2000	2030	Australia	R Australia	9620	9580	7215	7205	6060	6035	9910 2000-	12/10/88
2000	2200	USA	WSNB	17750	15225			As/Pac/PapMG	CA/Canada	137/315 deg	12/19/88

2005	2105	Syria	R Daascus	12085	9950	Eu	12/26/88
2015	2100	Geraan Dem Rep	R Berlin Int'l	15255	13610	Af	11/25/88
2025	2045	Italy	RAI	9575	6165	near East	11/26/88
2030	2100	Australia	R Australia	9620		As/Pac/PapMG	12/10/88
2045	2130	Geraan Dem Rep	R Berlin Int'l	6115		Eu	11/25/88
2100	2130	Australia	R Australia	21740	15320	As/Pac/PapMG	12/10/88
2100	2115	Caeroon	R Caeroon	5010		news in English	12/04/88
2100	2300	Iraq	R Baghdad	9770		Eu	12/24/88
2100	2125	Romania	R Bucharest	7195	6105	Eu	12/26/88
2100	0000	USA	WRND	15420		NA/CA/Eu	12/17/88
2105	2205	Syria	R Daascus	12085	9950	20 deg	12/26/88
2130	2200	Australia	R Australia	21740	15320	As/Pac/PapMG	12/10/88
2200	2400	Australia	R Australia	21740	17795	As/Pac/PapMG	12/10/88
2200	2330	China	R Beijing	3985		v Switzerland	12/03/88
2200	2245	Geraan Dem Rep	R Berlin Int'l	9730		Eng 0000-0030	11/25/88
2200	0200	Guam	KSDA	15125	11700	As/SE As	12/28/88
2200	2225	Italy	RAI	9710	5990	Japan	11/26/88
2200	2300	Taiwan	V of Free China	15370	11805	AusNZ/Eu	12/19/88
2200	0000	USA	WSHB	17640	15205	SA/NE Canada	12/19/88
2245	2330	Geraan Dem Rep	R Berlin Int'l	9730	5965	ENA/Eu	11/25/88
2335	2345	Greece	V of Greece	9905	7430	NA	12/19/88

Changes entered between 11/25/88 and 12/30/88.

ENGLISH LANGUAGE DX SHOWS: By Day of Week
Compiled by Thomas R. Sundstrom, W210

Shortwave DX Program	Show Start Time	Show End Time	Country	Station	Freq							Target Area	Notes re DX	Record Last Updated	
					#1	#2	#3	#4	#5	#6	#7				
			England	BBC	9510	5975							World Service/NA		12/19/88
Waveguide	0530	1945	India	AIR	11860	11620	9910	9755	7412				60S/N Eu/Afr	biweekly	12/26/88
Dixers Calling	2030	2200	Geraan Dem Rep	R Berlin Int'l	9730								ENA	biweekly	11/25/88
RBI DX Club	2220	2245	Geraan Dem Rep	R Berlin Int'l	9730	5965							ENA/Eu	biweekly	11/25/88

** DAY OF THE WEEK: Monday

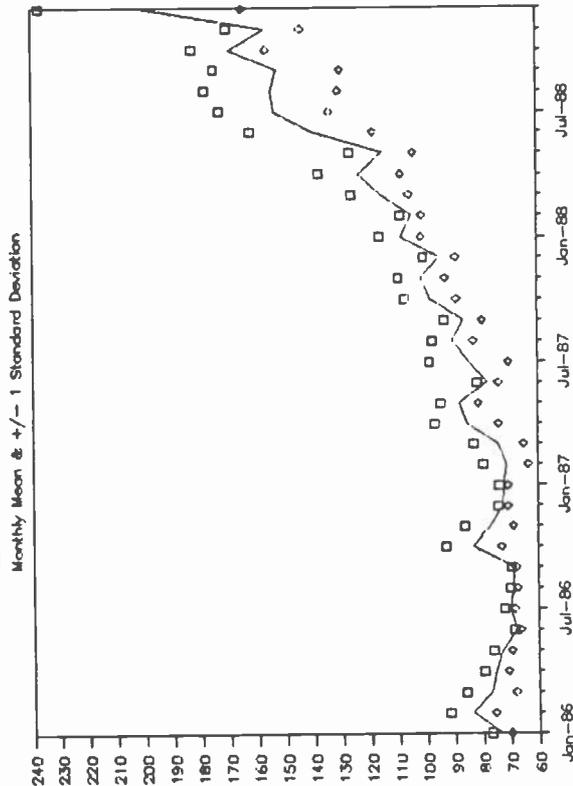
** DAY OF THE WEEK: Tuesday

RBI DX Club	0105	0045	German Dea Rep	R Berlin Int'l	11890	6080	EMA	biweekly	11/25/88
RBI DX Club	0220	0200	German Dea Rep	R Berlin Int'l	11890	6080	EMA	biweekly	11/25/88
RBI DX Club	0305	0245	German Dea Rep	R Berlin Int'l	11890	11785	EMA/WNA	biweekly	11/25/88
RBI DX Club	0420	0400	German Dea Rep	R Berlin Int'l	11785	9620	WNA	biweekly	11/25/88
RBI DX Club	0505	0445	German Dea Rep	R Berlin Int'l	11785	9620	WNA	biweekly	11/25/88
Waveguide	1115	1100	England	BBC	11775	9510 7325	6195 5965	World Service/NA	12/19/88

** DAY OF THE WEEK: Thursday

Waveguide	0130	0030	England	BBC	9915	9590	9575	7325	6175	World Service/NA	12/19/88
Media Watch	0730	0600	England	BBC	9640	5975				World Service/NA	12/19/88
Media Watch	2130	2000	England	BBC	12095	5975				World Service/NA	12/19/88

SOLAR FLUX: 1986-87-88



THE 1989 NORTH AMERICAN DX CHAMPIONSHIPS
(NADXC) SPONSORED BY NUMERO UNO

ELIGIBILITY

The 1989 DX Championships is open to all DXers residing in North America (as defined by the country list of the North American Shortwave Association (NASWA)). Members of the NADXC Administrative Committee and the judges are excluded from participation.

LISTENING PERIOD, FREQUENCIES, AND TIMES

Each participant must provide a LSASE to the address below no later than 1 February 1989. The contest will occur in late February or early March--specific time and frequency details will be sent approximately two weeks before the actual contest period. The 1989 NADXC will be a true DX contest. Rules will be changed annually to offer new challenges and provide contest variety.

PRIZES

Trophies will be awarded by NU to the top three finishers; they will also receive a current shortwave - related book from Fred Osterman of Universal Shortwave. All entrants will receive a certificate of participation in the 1989 North American DX Championships and the top 20 will have their place of finish indicated on the certificate.

SCORING

Contestants are to log as many stations as possible from as many countries as possible within the prescribed listening parameters. The first station logged from each country = 5 points. The second station from each country = 3 points; each additional station from that country = 1 point. For contest purposes, all clandestine stations and hobby pirate transmissions will be considered one "country." A station is a shortwave broadcaster whose transmissions are intended for reception by the general public. Each transmitter site of a broadcasting organization will count as a separate station. Different services of the same broadcast organization do not count as separate stations. Transmissions of a single broadcast organization on various frequencies may only be counted once. The use of multiple frequencies does not create as many new stations as frequencies used. For country counting and station counting purposes, the country list of the North American Shortwave Association (45 Wildflower Road, Levittown, PA 19057) will be the sole criterion.

Participants are required to submit a running log to include country, station, frequency, time, date, SINPO, and the basis of station identification (i.e., spoken ID, interval signal, language, program, known//frequency checked, etc.).

Each contestant is required to total his own entry and provide a summary of the number of countries and stations claimed to support the point totals. Logs will be judged on accuracy, completeness and neatness. If the judges cannot read a log, that log will not be counted for scoring purposes. The decision of the judges is final.

FEES

An administrative fee of \$3.00 plus a business-size SASE must be provided for each contest entry. All entries must be postmarked by Wednesday, 15 March 1989 and sent to:

Dr. Harold Cones
2 Whits Court
Newport News, VA 23606 USA

Results of the contest should be available in June and will be sent to each participant and all ANARC member clubs for publication.

Good luck from the 1989 NADXC Administrative Committee - Harold Cones, John Fisher, and Dan Sheedy.

***** The 1989 NADXC is part of the celebration of the 1,000th consecutive weekly issue of NU and its 20th year of operation *****

FOR SALE: SONY ICF-7600A, \$65.00 and SONY ICF-2002, \$140.00. Both in good condition and with little use. Come with original packing and accessories. I pay shipping. Malcolm Kaufman, 18 Dudley St, Cambridge, MA 02140. Phone (617) 868-5136. Weekend mornings best.

NOTICE: Anyone in the SE Ohio and neighboring areas of West Virginia and Kentucky interested in a DX Get-together please contact either Don Moore, 2½ Columbia Ave, Athens, OH (614) 592-5532 or Bob Carlsen, Rt. #1, Box 292, Northlake Drive, Vincent, OH 45784.

NOTICE: Kevin Atkin, John Tow, and Jerry Lineback are planning to get together at Cheaha State Park campground (about halfway between Birmingham and Atlanta) on January 20-22 to freeze their silly tails off and hopefully do some DXing. Anyone who'd like to join them for all or part of the weekend is welcome. Call Kevin evenings at (205) 681-2214 for more information. In the event of bad weather, they will probably postpone for two weeks, so call the preceding Wednesday or Thursday to make sure it's still on.

2nd ANNUAL WINTER SWL FESTIVAL

When: February 25-26 1989. Hospitality room will be open Friday evening.

Where: Holiday Inn
Sumneytown Pike
Kulpsville, Penna 19443
215-368-3800

Exit 31 of the PA turnpike NE Extension - Lansdale interchange.

There is limo service from Phila. International Airport directly to the Holiday Inn.

What: The Winter SWL Festival is an educational as well as social event. We hope you can join us for a weekend of roundtable and panel discussions, lectures, and SWL chatter with fellow hobbyists. All areas of SWL interest including LW, MW, SW, Utilities, RTTY, etc. will be on the agenda. Last years Fest was a great success with 60 SWL's gathering for an enjoyable weekend. There will be door prizes as well as a freebie table. If you can participate as a speaker, panel discussion member, door prize contributor or whatever - please let us know.

Registration is \$30. This registration includes lunch and a dinner banquet (informal) on Saturday. Should you desire to omit the meals the registration is \$15. Please register by February 10, 1989. Checks should be payable to WINTER SWL FEST. Registration for hotel room should be made directly to the Holiday Inn - As soon as possible! Special rates \$55 single, \$59 double. Our function code with the hotel is WINTER SWL FEST. Please refer to this to get the special room rates. Listen to the ANARC SWL Net on 7.240 LSB at 1500 UTC Sundays for up to the minute info.

Please submit the following with your registration to:

Winter SWL Festival
PO BOX 591
Colmar, PA 18915

Name _____

Address _____

City _____ State _____ Zip _____

Phone _____

Interests _____

Banquet - Check one: Roast Beef _____ Chicken _____

NO COLLECT CALLS ON THESE ADS, PLEASE

FOR SALE: ICOM R-70. Mint condition and has audio, BCB pre-amp, and filter modifications. Owner's and service manual included. Reason for selling is newly purchased R-5000. Asking \$300.00 including UPS. Tom McElvy, P.O. Box 9645, Norfolk, VA 23505. Phone (804) 497-5151 before 0230 UTC.

FOR SALE: "Passport to Worldband Radio," special 1988 Grundig edition, by Larry Magne. This edition published especially for sale by Grundig dealers; thus it lacks ads for other receivers and Magne's test reports. Near-mint condition, \$11.00. 1988 WRTH, hardly used, \$14.00. Both for \$23.00. I pay postage. Dale Park, 2253 Kanealii Ave, Honolulu, HI 96813.

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FOR SALE: ICOM R-71A with 4 kHz AM filter, FL44A SSB filter, EEB audio and AVC mods. Superb near-mint condition. A terrific rig for serious DXing! \$600.00 plus UPS to your QTH. Harry Helms, 7445 Andasol St, San Diego, CA 92126. Phone (619) 699-6840 from 1600 to 0000 UTC.

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FOR SALE: ICOM R-71A communications receiver with service manual. Factory stock, barely used. Asking \$1050.00 Canadian. Michael Bolitho, 106 Eastbourne Ave, Toronto, Ontario, Canada M5P 2G3.

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