

FRENDX

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radio **carriere**

SETTIMANALE DELLA RADIO ITALIANA

ITALIAN RADIO IS SIXTY YEARS OLD

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QUESTI 9 MEMBRI ECCELLENTEMENTE SI SONO SECONDO IL SUO MODO

33rd Year No. 4/1984

THIS IS THE ITALIAN RADIO-TELEVISION CALLING FROM ROME

TRIMESTRALE

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NASWA

HEADQUARTERS REPORT

NORTH AMERICAN SHORT WAVE ASSOCIATION

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NOTICE, PLEASE

The Frequency Recommendation Committee, Association of North American Clubs, is now accepting inquiries and applications for membership. If interested, please write to the following address for further information: Ralph S. Bowden, Chairman of FRC, ANARC, P.O. Box 156, Mentone, CA 92359. All inquiries will be answered.

MICHIGAN AREA RADIO ENTHUSIASTS

Don Hosmer writes that a group of radio hobbyists in Michigan have recently formed a local radio listeners club. The club has a newsletter which is published bi-monthly, meetings, and is planning on some DX-peditions in 1985. All listeners in Michigan and the border areas of Ohio, Indiana, and Ontario are invited to join. Dues are \$3.00 a year and more information and a sample newsletter can be obtained by sending a business-size SASE to Michigan Area Radio Enthusiasts, c/o Don Hosmer, 24500 Union, Dearborn, MI 48124.

NO COLLECT CALLS ON THESE ADS, PLEASE

FOR SALE: New ICOM R-71A. This unused receiver is priced at \$599.00 plus \$10.00 shipping and insurance. Cliff Wanzer, South 25 Girard Road, Spokane, WA 99212. Phone (509) 928-3073.

FOR SALE: DX-1000 by Bearcat-Uniden in excellent condition and modified by Radio West with 4, 2.9, and 1.9 kHz filters. Price \$450.00 or will negotiate. Ray E. Jacobs, Jr., 30 North 41st Street, Camp Hill, PA 17011. Phone (717) 737-6017 anytime between 2230 and 0300 UTC.

FOR SALE: Yaesu FRG-7700 and FRA-7700 active antenna. Both less than one year old and in excellent condition. Price \$330.00 including shipping. Tom Daley, 132 Richard Court, Pomona, NY 10970. Phone (914) 354-5087 at any reasonable hour.

WANTED: Used 1984 Foreign Amateur Radio Callbook. Charles R. Foxx, Jr., 2932 Myrtle Avenue, Norfolk, VA 23504.

FOR SALE: Hot-performing ICOM ICR-70. Perfect condition. Price \$450.00, negotiable. Larry Albert, P.O. Box 83, Chestnut Hill, MA 02167. Phone (617) 254-6398.

FOR SALE: Info-tech M200F RTTY and CW decoder with RCA monitor, Excellent condition. Includes manuals and RTTY Guides, \$399.00 plus UPS. WRTVH's, '75-'84 at \$6.75 each. Homebrew SPR-4 frequency extender with nine crystals. Plugs into SPR-4. Works great, \$65.00. Also numerous shortwave tapes and records, originals in excellent condition. Write for list. Jim Uerlings, 1437 Pacific Terrace, Klamath Falls, OR 97601. Phone (503) 884-7659 after 0130 GMT.

COMMODORE OWNERS: If you liked SWL's Guide, you'll love SWL's Database, a disk based program for C-64 which performs all the functions of SWL's Guide and more. Create your own station schedule disks (each holds over 1200 entries), read and write to databases for updating schedules. Propagation function now computes Darkness Path and offers Multiple MUF functions; BLITZed (C) for faster operation. Disk with program and English Station to NA database \$10.00 copy and postage US, \$11.00 overseas. Bill Cole, 107 Charles Street, North Cape May, NJ 08204.

FOR SALE FOR POSTAGE: WRTH, 1976-83; FRENDX, 1980-84; "SWL", 1980-84; London Calling, 1981-84; Pop Comm, 1984; Communications World, 1978-79; Van Jones Station Guide, 1967; "The Fun of Shortwave Listening" by Len Buckwalter, 1965; "Wireless World's Guide to BC Stations, 1970; "Towers to Eternity" (story of TWR) by Paul Freed; QSL Address Book by Gerry Dexter, 1978; Any or all items shipped to you for the cost of postage alone. John Schmid, P.O. Box 86, Line Lexington, PA 18932. Phone (215) 822-7154 between 0100 and 0300 GMT.

Shortwave Center

February 1985

Editor: John C. Herkimer, 3233 East Avenue, Caledonia, NY 14423

JOHN CAMPBELL would be the envy of almost any DXer. He's traveled the globe, living and DXing in a variety of exotic locales. He has the ultimate high-tech career, working in England and Sweden as a professor in universities and research institutes, covering such topics as mathematics, computer science, physics and "a little electrical engineering". Then, as former editor of the excellent "Unofficial Radio" column in DSWC's "Shortwave News", John developed a reputation as an authority on clandestine broadcasting, especially the trendy European pirates. A perfect choice for an SWC Interview (JH)



A rare photo of the elusive **JOHN CAMPBELL**, photographed and disguised by an expert of the Criminal Investigation Branch of the Sydney police. John notes, "Just right for visiting clandestines, but the Sydney police can't have a good record of infiltrating illegal gambling clubs if they're all dressed up as railroad trade-union officials from Azerbaijan."

INTERVIEW

THE SHORTWAVE CENTER INTERVIEW: **JOHN CAMPBELL**

SWC: I guess the logical place to start, John, is to ask how you found your way into the hobby?

Fartly through discovering that an old receiver at home actually had a shortwave band, and partly through an interest in electronics. The receiver wasn't very effective, but I found a military surplus receiver (Marconi RL155, for the specialists) for \$20 soon afterwards, and used the interest in electronics to put it into working condition. This was at a time when there were no Australian DX clubs, but there were two active New Zealand clubs whose publications were sold in some Australian bookstores, and that was where my DX education started.

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SWC: You've done a considerable amount of traveling in your work and have, I would guess, been able to DX from a number of places. What was your favorite?

New Zealand, I think, because of the general enthusiasm of the DXers I met there, as well as the standard of the DX itself. Finland (especially north of the Arctic Circle) comes a good second for the same reasons. It's probably no coincidence that these are about the only two countries in the world where you can say at an average dinner party that you're a DXer and find at least one other person who knows what that is (and doesn't confuse DX reception with ham radio) because he or she has a friend or relation involved in the hobby or has read about it in newspapers. It's the human environment as well as the rare signals that creates the DX quality - at least for me.

SWC: Where would you like to DX from that you haven't already?

My tastes in DX targets run particularly to countries with a wide selection of separate and independent SW operations, preferably with a home-brew flavor. There are not many countries which fit that description: now that Angolan radio is centrally-controlled, the list probably boils down to Indonesia, the Andean countries and Brazil. My ideal location would be one that could give an equally good chance of DX reception from each of them. In theory that could mean a south-west Pacific island location, though the actual Pacific sites that I know give either good Indonesian or good Latin reception, but not both. Maybe I should settle for Wisconsin. From the DX evidence, that seems to be a hard location to beat.

SWC: Especially the Lake Geneva/Kenosha area, eh? You've developed quite a reputation as an expert on clandestine broadcasting. What brought about this interest?

Probably an interest in languages and current history. It's quite a challenge to figure out what a new clandestine is about, who runs it, why it's there and so on, from the broadcast material itself. Good language practice, too. The European pirates are a slightly different story. I'm reminded of the British Everest expedition leader in the 1920s who was asked why he wanted to climb the mountain and replied "Because it's there". I happened to move to Europe in 1972 when the SW hobby pirates were just getting started, and I stayed with them. As almost none of them operates outside 0900-1300 on Sundays, it's easy to keep up with what's going on.

SWC: The European pirate scene seems very quiet these days from our perspective here in the States. Exactly what's going on over there?

Quiet on some Sundays, maybe, but the stations are still out there somewhere. The all-time high of activity on any one Sunday that I can remember was actually quite recent, at the end of October 1984, when I heard 25 stations. There are threats of more efficient raids and tougher legislation in several European countries just now, but these seem only to make the stations operate less frequently, not to frighten them off the air completely.

SWC: Country chasers will want to know if they can look forward to any activity this season from Scotland, Wales, Isle of Man, Channel Islands or Northern Ireland. Any predictions?

The 1984-85 transatlantic season hasn't produced anything very exciting, probably because the most interested operators had bad luck with conditions in 1983-84. But it's already possible to say that some special broadcasts from Scotland and Wales for winter 1985-86 are likely. Unfortunately there's nothing happening in the Channel Islands or the Isle of Man now, but Northern Ireland (one station) is a possibility.

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SWC: The status of Irish pirates seems rather vague. For instance, is Radio Dublin officially a pirate?

R. Dublin is indeed a pirate, as is any Irish broadcaster except RTE and R. na Gaeltachta. But "pirate" isn't a bad word in Ireland. For example, the national airline Aer Lingus bought advertising time on a Dublin pirate a few years ago, and the Minister responsible justified this in the Irish parliament by saying that the pirate had better audience ratings than RTE. If you believe the newspaper rumors, legislation to put the pirates out of business is just round the corner, but it has been just round the same corner for 8 years now. I think we'll be hearing R. Dublin on 6910 for a long time yet.

SWC: You've had numerous contacts with the Euro pirates and, in some cases, have actually met the operators. What's your impression?

There's a big mixture of backgrounds, and no one common denominator. Certainly there are people with convincing motives, especially given that most European official broadcasting is a national monopoly or run under much tighter state control than in the USA. (But I wouldn't say that the USA is a radio paradise: try reading "Technologies of Freedom" by Ithiel de Sola Pool, for example). To these people in Europe "free radio" or "community radio" means something positive, including high technical and programming standards. There are some very forgettable operations too, but these usually don't last long and don't make up more than 25-30% of the overall SW numbers.

SWC: What do you think their reaction is to the hobby and DXers?

Very friendly in general, especially to transatlantic DXers. Some of the better stations are actually run by DXers or have programs of free radio and DX news contributed by DXers. They generally understand the hobby quite well; that's also where the SW pirates get the majority of their audience. On the other hand, the stations put a fair amount of effort into their programming too, and the operators are not necessarily happy if listeners merely write in with reception-report information and don't make comments about the programs.

SWC: A few years ago we saw a great deal of discussion on the issue of pirates, particularly those here in the U.S. Aside from some dialogue not much else has happened in either direction. Where do we go from here?

It seems to me that both the amount of US pirate activity and the great US pirate debate have died down in the last three years. To judge by information that I read, most of the stations which are continuing have a lot in common with Europirates and are worth hearing. (Here's a chance for me to say that my favorite US pirate, R. Confusion, was certainly worth hearing and compared very favorably with the best Europirates). If the programming is generally well done and there are not too many examples of cowboy operations or "kids playing radio", the people who appreciate this style of broadcasting will follow it, those who don't will not, and the two sides shouldn't see any need to argue with each other. This seems to be the story of US pirate radio and coverage of pirate radio in the last year or two, anyway.

SWC: A popular opinion is that lack of exposure, by eliminating references and loggings of pirates in FRENDEX, for instance, would eventually force the pirates off. What's your opinion?

Even if there is no regular coverage, there will still be a few enthusiasts who will continue. R. Clandestine, for example, was in business before there was any regular coverage at all. Another factor keeping the pot boiling will be the existence of radio clubs or bulletins specializing in "unofficial radio". I don't think that these will die out.

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SWC: There seems to be a great deal of reluctance by DXers to contact clandestine stations, since most are politically motivated. Is it worth the risk?

That depends on what you have to do to contact them. Mail is safe enough, as far as I know, but the difficulties start when stations announce no addresses and you have to go out hunting them if you want to communicate. I did a spell of that in Northern Ireland in 1972. The experience of having guns pointed (three times) or fired (once) in your general direction certainly keeps all your mental faculties wide awake and working overtime. I'd only recommend it to the most dedicated QSL-hunters, though. I have other stories of the same kind, but unfortunately not for publication, apart from the occasion when I was asked to stand in for a revolutionary announcer who was immobilised by a giant hangover. The story that I'd most like to tell has something to do with Sonora, and involves asking why the complement of trucks of the Arizona State Highway Patrol finished up one short in 1967. Take my word for it, contact by mail is the safest way to go.

SWC: Your other area of expertise is computers, specifically their application to DXing. What future do you see for the computing DXer?

Not much if the standard programming language for hobby computers continues to be BASIC. With BASIC or with software packages resting on a language like BASIC, you're confined to simple arithmetic, simple record-keeping, and word processing. That's all helpful, but I can do it myself quite easily with pencil and paper, card files and maybe a calculator. Where computing should really pay off eventually for the DXer is in forming and testing hypotheses, say on what to look for if K indices take particular values at particular times of the year. This really needs an article to itself, but I've already written one which makes some of the right non-BASIC noises in FRENDEX for November 1983. Fortunately ideas about the most useful languages for this type of computing, like LISP and Prolog, turn up quite often now in "Byte". In brief, to sum up, don't settle for BASIC, and try to get a computer with at least 256K bytes (512K is even better) of RAM.

SWC: Using your knowledge of computer technology, what improvements and changes would you make in receiver design?

That's another question which deserves an article to itself. The best way to approach it is probably to ask you to think of what you would like your ideal DX receiver to do. Obviously there's no simple answer, but you can list performance characteristics in different categories, like selectivity. For each category, the chances are that you would prefer specifications which aren't fixed but which change according to the conditions, like a band-pass characteristic which can attenuate one sideband with respect to another while filtering out interference like heterodynes, or behaving differently for male voices, female voices and music. In other words, the answer to what you need is "It depends...". But that's just where computers come in. The great strength of a computer program is that it can use tests like the IF statement in BASIC to do "It depends" things for you automatically, depending on the data (the incoming signal, in this case). So, computer technology already has the power to support your ideal receiver design. The catch, as Jerry Berg said in SWC last December, is that the DXer is a relatively rare bird, and that the numbers of potential buyers for the most interesting designs may not be large enough to tempt manufacturers to act. Put do-it-yourself technology is a possible alternative, as Jack Ferolo has shown in SWC in November. In fact I've done some of it myself already with microprocessors, though professionally and not yet at a hobby level.

SWC: Your work keeps you so busy these days, just how active are you DX-wise?

Not as active as I would like, but this isn't so much of a problem in Europe if you're chasing Andean stations or Indonesians. The good seasons for each of these regions are fairly short, and I can usually adjust my work schedule to fit. Then there are the clandestines and pirates, but these are quite considerable of my

(continued)

schedule too. I manage to keep up with things because none of these areas needs large amounts of band-scanning time in Europe; I can usually zero in on the periods and frequency ranges of interest quickly. But I'd be grateful to have the time for band-scanning too. Maybe in another 25 years or so...

SWC: What's your opinion of international broadcasting as an entertainment and information medium?

Entertainment, no - at least as far as the large stations are concerned. At the other end of the scale, one more reason for liking Indonesian and Andean DX is the local music. On entertainment, I agree 100% with Jerry Berg and Don Jensen. Information? Well, unlike Jerry, I sometimes enjoy hearing about cement-production statistics from India - you never know when odd pieces of news stored away in the mental filing system will turn out to be helpful, either when you're visiting some obscure corner of the world next time or when you're trying to make sense of the programming on a new clandestine. For international news I listen to the BBC first, though with some reservations. In a more unlikely direction, I've found that Spanish Foreign R. news is quite good value lately.

SWC: I know that you've had the opportunity to meet a number of U.S. DXers, especially some of the better known. What impression did they make?

My impressions are based almost entirely on well-known DXers who have been in the hobby for some time; I haven't met many others in the USA. My impressions are very positive, for two reasons. Firstly, they are very agreeable as people, besides having a respect for information, which is always something that I appreciate. Secondly, and I hope I don't embarrass any of my friends by saying this, I know of no better example of a group of people representing at the moment one particular mixture of social and technical capability which seems to have been specifically American for at least the last 125 years. This mixture is one of the things that makes the USA such a rewarding country to visit and to work in. There are pointers to it in places like p. 383-4 of "The Making of the President 1960" by T.H. White and in the historical chapters of "From Know-How to Nowhere" and other books by Elting Morison, a historian of technology. And even in the ham radio monthly QST during the 1920s. It's stretching the truth a little, but not by too much, to say that, if I hadn't bought a bundle of these at a ham club auction in South Australia, I wouldn't have decided to go to MIT as a graduate student. That may seem like a long way from DX, but for me it isn't - and it helps to explain why I try to make it to US DX get-togethers whenever I can.

SWC: What's John Campbell going to be doing 5 years from now?

The same things as now, I hope, but in some different places. I like having more than one base, so I'd be happy to get back to the USA for a regular part of each year, combining this with work in Europe, particularly Sweden. More chance to attend DX conventions and hear all those exotic Peruvian SW locals!

SWC: Thank you, John, for taking time off from your busy schedule to answer my questions and for being so patient while I put them together. Hopefully we'll meet during one of your future trips to the States!

"CONTACT"... Andy Robins has informed me that he is no longer able to continue to edit his "Contact" column. A relocation in his work and the added work load that will bring is the major reason; the other the rather lukewarm reception the column received. Despite the fact that "Contact" never really got off the ground, Andy worked hard to keep it afloat and interesting. Let me add my thanks to him, both as editor and friend and to wish him well in his work. (JH)



The Asian DX Championship Contest 1984 -A Participant's Report

by Richard E. Wood

For whatever reason, DX contests and championships are not a popular tradition in North America. They are, in Asia and especially in Europe. North American DXers may have become aware of this European DX phenomenon for the first time recently, when Radio Syd, Banjul, The Gambia, reactivated its shortwave transmitter only on the occasion of the Nordic DX Championship, bringing back to life, for one day, an otherwise "dead" SWBC country.

The reasons for the lack of DX contests (as opposed to awards and certificates) in North America might include cultural factors, a comparative lack of locally-based DX clubs in U.S. and Canadian cities and states (though there are more of these now than in the past), the extreme variation in conditions from day to day and from region to region of North America, or perhaps a lack of volunteer interest in organizing them. Would-be organizers might feel that it would take a lot of work, e.g. correspondence with stations.

This might be true if the Radio Syd example were standard for a contest, i.e. persuading an inactive station to open up on a specified date and frequency and broadcast special material, then perhaps find itself inundated by reports. Or even if the organizer had to ask participating stations to send greetings to contest participants, to broadcast in English when it would not normally do so, etc.

However, the 1984 Asian DX Championship Contest showed none of these complications and was probably quite easy to arrange. The Union of Asian DXers (Sri Lanka) simply selected a number of South Asian stations, on their normal schedules, in their normal languages and, of course, on their normal frequencies, to be monitored by contest participants. At least at the times I was able to receive the designated stations, there were no changes of schedule, no greetings to Contest participants, and--very likely--no awareness on the part of the station that a contest was in progress. Is this how a North American-based contest would operate? Probably not, but at least such a contest, with no correspondence with stations, would be easy and cheap to launch.

Participants had to log the following stations, each only one time out of the two designated time slots:

December 29, 1984

0730-0740	21460, 17800	Radio Bangladesh "Voice of Islam"
1437-1447	5985	885 Rangoon, Burma
1450-1500	7165, 5005	Radio Nepal, Kathmandu ("May change 7165 to 3230, 3425"--this did not happen)
1530-1540	4940	SLBC Colombo, Sri Lanka
1600-1610	4800	AIR Hyderabad, India
1700-1710	4830V	Radio Pakistan, Karachi (Varies 4810-4835)
1730-1740	4740, 4450, 3965	Radio Afghanistan
1750-1800	4790	Azad Kashmir Radio

December 30, 1984

0030-0040	15425, 9720, 6005	SLBC, All Asia Service, Colombo, Sri Lanka
0045-0055	4980	Azad Kashmir Radio
0100-0110	7315, 6080	Radio Pakistan Hindi Service
0115-0125	4840	AIR Bombay, India
0200-0210	7185	885, Rangoon, Burma
0220-0230	7165, 5005	Radio Nepal, Kathmandu ("May change..." as above)

Results

If you consider my location in Hawaii and subtract 10 hours from UTC to obtain Hawaiian Standard Time, you will see that I only had one potential chance at the lower-frequency stations. 0100 UTC is 3 p.m. here, 0200 is 4 p.m. With dusk here about 6:15 p.m. local now in midwinter, and not varying much year-round, due to my closeness to the equator, there is no South Asian reception on 60, 49 or even 41 meters at such mid-afternoon times.

On the other hand, the time segment beginning at 1437 and ending at 1800 UTC was, as it happened, excellently chosen for my Hawaiian location. 1437 is 4:37 a.m. here and 1800 is 8:00 a.m. I had been a little concerned about that rather late time, when it has already (in midwinter) been daylight here for over an hour and a half, but 60 m. and even medium wave have been staying open to Asia that late, recently, and Azad Kashmir proved to be one of the loudest, easiest logged signals in the whole contest.

At this latitude, conditions do not vary as much from day to day as at higher latitudes, e.g. in North America. There is some variation, but nothing corresponding to the sudden ionospheric disturbances and auroral storms which, in North America, blank out everything from Europe or Asia and leave only a scattering of Latin American stations plus, perhaps, Tahiti and Australia. So, I would call conditions on the contest day (December 29 only, for me) about average.

Let's look at the specifics:

- 0730-0740 Bangladesh. Neither 21460 nor 17800 audible. M.u.f.'s do vary here, though not as much as at higher latitudes. 13 m. was almost dead with just weak signals from Australia and the Asian USSR. 16 m. showed powerful Australia, Japan, USSR, Havana, etc., but no India, Pakistan or Bangladesh. I think this entry was a good choice by UADX, however, as I have heard Bangladesh here around this time. Contest entrants in Australia, Europe, etc., may have received it.
- 1437-1447 Rangoon. 5985 was quite good, an average SINPO 33333, and the time slot had been rather well chosen to include the first two minutes of the English news at 1445. ID: "This is the Burma Broadcasting Service in Rangoon. Here is the news." Prior to that there was instrumental music with a country and Western tinge, rather difficult to report.
- 1450-1500 Nepal. The easiest of all the contest stations, Radio Nepal had 100% copy and potent signals on both 7165 (which for some reason I had never logged before) and 5005. Since discovering it, I have been checking 7165 regularly and can report fade-in times of a little before 0800 at present, which makes it a candidate for U.S. East Coast reception. At 1450 there was instrumental music and at 1451, "This is R. Nepal, the news..." As always when I hear Radio Nepal, there was strong emphasis on "His Majesty the King", and never more so than this day, which proved to be his Official Birthday. (His biological birthday might be quite different.) An extremely easy-to-copy list of Birthday messages and telegrams from heads of state around the world, all very similar in wording, was read out. Heads of State included: "Head of the Council of State of the People's Republic of Poland, Henryk Jablonski," "President of the Islamic Republic of Iran, Ali Khamene'i," "His Majesty King Hassan of Morocco," "The President of the Socialist Republic of Romania, Nicolae Ceausescu," and many other very familiar names. I took page after page of copy, although only three definite program items were needed for the contest.
- 1530-1540 Colombo. My first blank among the tropical-band entries. At 1532 I noted a trace of instrumental music which might have been Sri Lanka, peeping through a loud, dominant Yakutsk, USSR, 4940. At 1533 a second station showed up through Yakutsk, but it was Qinghai, China.
- 1600-1610 Hyderabad. Since there was no designated station between 1540 and 1600, I naturally tuned to 4800, specified for 1600, ahead of time, and was disconcerted to find another Soviet there, just when my assignment of Colombo 4940 had been wiped out by Yakutsk. To my good fortune, the Soviet on 4800 ended transmission at 1600, though its carrier remained on and at 1605-1607 there was a 1000 Hz tone test which may have come from it. Hyderabad was audible, and about 30% readable, with ID 1600: "This is Delhi" and into the news read by a female. It was not solid copy, but I could discern phrases about India's President, ministers, Pakistan, New Delhi, etc.; a little more than the three program items required by UADX. There was a trace of what sounded like another South Asian on 4800; this might have been the beginnings of the fade-in of Lesotho, which had risen to huge strength by 1700 that morning.

- 1700-1710 Pakistan. Not a trace of this station, and yet only weeks earlier I had enjoyed its English program of Western pop music requests in the clear on 4815. One problem was the variation in frequency. I stayed mostly on 4830, as specified in the contest, and on 4815, where I had heard it before. I did hear a powerful, unlisted Radio Pakistan outlet on 4777.5, in a language sounding very different from Urdu, but this was clearly not the Karachi English service required for the contest. It will be interesting, when the results are published, to find out what happened to this station.
- 1730-1740 Afghanistan. All three frequencies were booming in, including 3965 with the audio hum which marks it as a relay from Soviet territory. I took my report on 4740; at 1730 there were three short, low time pips followed by one long, higher one. ID "Da Radio Afghanistan Kabul" and into the news in Pushtu. This Turkic-origin language is not as easy to copy as Dari (Afghan Persian), a strikingly clear language with lots of long vowels and many words of Arabic and Indo-European origin. But reception was so good that it was fairly easy to copy at least the placenames, country names, and familiar phrases like "Afghanistan khalk" (people), "Shuravi" (Soviet), "wahidi Afghanistan" (the unity of Afgh.), "Afghanistan Demokratik Jumhuri," etc. At 1738 there was military march music and the voice of Babrak Karmal shouting about "Afghanistan Demokratik"; at 1739 rousing classical music and shouts by a crowd, altogether an unpleasant, militaristic program, the voice of an unpopular regime.
- 1750-1800 Azad Kashmir. I reported this new frequency of 4790 on October 11, for the first time (in the Frendx December Log Report) and identified it as Radio Pakistan. Precisely that ID was given again this time, at 1755 after the Urdu news. This is Azad Kashmir Radio, but it sounds and functions like a regional station of Radio Pakistan, and the news heard was probably a relay from the central studio. It was easy copy, with mentions of Pres. Zia ul-Haq, "Hakuma Pakistan" (the Govt. of P.), Islamabad, Burma, "wazir" (minister), etc.

Entering the Contest

I submitted my log of the above to Gerhard Werdin of Germany, one of the three-man Contest Committee, and the one designated to receive reports from outside South Asia. Entry fee was \$1 or 4 IRC's. The other judges are Sarath Weerakoon and the well-known UADX editor, Victor Goonetilleke. They will "take in all aspects of the hobby in determining the winner". I don't imagine I will win, but it was fun entering and I learned quite a lot. I may be the only U.S. entrant, as the Contest received very little publicity in North American DX circles. Those seeking further info on UADX should send along a few IRCs to: Union of Asian DXers, 32/4A Malwatte Road, Dehiwala, Sri Lanka.

Read it and weep. Here are the scheduled postal rate increases effective February 17. From "Linn's Stamp News" and my dad:

International

airmail letter

to Colombia, Venezuela, Central America, the Caribbean Islands, the Bahamas, Bermuda and St. Pierre and Miquelon	<u>OLD RATE</u>	<u>NEW RATE</u>
	35¢	39¢
to all other countries except Canada and Mexico	<u>OLD RATE</u>	<u>NEW RATE</u>
	40¢	44¢

surface letter	<u>OLD RATE</u>	<u>NEW RATE</u>
	30¢	37¢

postcard

airmail	<u>OLD RATE</u>	<u>NEW RATE</u>
	28¢	33¢
surface	<u>OLD RATE</u>	<u>NEW RATE</u>
	19¢	25¢
aerogramme	<u>OLD RATE</u>	<u>NEW RATE</u>
	30¢	36¢



Editor: James G. Herkimer, 3255 South Drive, Caledonia, NY 14423

Your First Receiver: A Portable?

One of the most frequently asked questions by newcomers is, "Can you suggest a receiver for someone just getting started in the hobby?" Invariably, the answer is a portable. Although many table-top communications receivers are capable of operating from a 12 volt power source, we'll confine our use of the term "portable" to those receivers that are designed to be powered from conventional batteries, such as "D" or "C" cells, and have a built-in whip antenna. These receivers, which may be considered self-contained, vary widely in their features, such as: frequency coverage, digital frequency readout, memory recall, BFO/product detector for SSB/CW, S-meter or LED signal strength indicator (often doubling as a battery strength indicator), external antenna connections, tape recorder jack, and a sharper selectivity position.

Some features are desirable in terms of utilizing the receiver for a specific purpose: the ardent program listener may find the memory recall to be the most advantageous, while the receiver's physical size and battery consumption may appeal to the traveler. The benefits of these features may not be fully realized by a newcomer to the hobby, who has yet to learn the nature of radio propagation, and how the various radio services are assigned within the frequency spectrum. In this respect, the omission of some particular features may actually limit the potential growth of the budding hobbyist.

Frequency coverage varies widely among available portables, with some providing portions of the international SWBC bands, while including longwave and FM coverage. This, unfortunately, prevents exposure to the unique and fascinating outlets to be found on the tropical bands, which offer, perhaps, a more realistic representation of a particular country's culture and folklore. It's no coincidence that for many, that's where the real "DX" is to be found.

One common problem among the earlier portables, and exists in many newer models, is drift, requiring frequent retuning by the user. This problem has been rectified in some models by the use of frequency synthesis provided by microprocessor technology. This also allows accurate (to 1 kHz) frequency determination, while at the same time, provides SSB and CW reception limited only by the available I.F. bandwidth.

Most portables are designed to provide adequate sensitivity when using the built-in whip antenna. When an outdoor random wire (untuned) is used, overloading frequently occurs. The use of a matching device, such as the MFJ random wire tuner, or the Grove Mini Matcher can, in most cases, eliminate overloading. Resonant antennas cut for specific frequency band, such as dipoles, can also cause overloading, and may require reducing the R.F. gain control or use of the step attenuator, if provided. A small value potentiometer placed in the "hot" lead or center conductor of the feedline can function as a variable attenuator. Some users, however, have found satisfactory reception with the built-in whip when the receiver was connected to an adequate ground system. On some receivers where no external antenna connections exists, coupling can often be accomplished via an alligator clip connected to the whip antenna. The point here is to experiment, and see what works best.

Some portables offer a sharper selectivity position which, in practice, may offer results comparable to some stock, unmodified table top communications receivers. An external audio filter can be used to increase the portable's ability to dig out weaker stations, however, don't overlook the use of the tone controls, particularly if separate treble and bass controls are provided. Communications headphones, while confining to some users, do allow some narrowing of the audio response, and provide the user with a higher degree of concentration on a particular signal, known among old-timers as the "cerebral" filter.

Some may question the use of outboard accessories as detracting from the portability of receivers intended to be self-contained, however, they do offer the opportunity for improved performance for the user, who may be reluctant to invest in a more sophisticated receiver. Portables can be used to hear some very interesting DX,

a glance through the Contributors' page in FRENEX will invariably show listings of members using these as their main, or only, receiver.

Additionally, some have discovered that portables can be used effectively in field day situations or DX-peditions where long antenna lengths and low power line noise are preferable to the confines of the home listening post.

More amazing, perhaps, is the availability of quality portables at incredible price reductions. During the past year, notable examples have been the Sony 6500W and the Uniden CR 2021. Consequently, this cannot be considered a rich man's hobby, and one has to question the wisdom in paying for technology that may not be readily utilized.

Chuck Bolland, Lake Worth, FL writes that International Radio, Inc., Port St. Lucie, FL has a crystal filter available for the ICOM R71A and R70 available for \$99.00 plus postage. This 8-pole filter replaces the 455 kHz ceramic filter or the FL 44 A filter. This filter has a bandwidth of 2.1 kHz at -6dB and 3.2 kHz at -60dB, compared to the FL 44 A 2.1 kHz filter, which has a bandwidth of 4.2 kHz at -60 dB. Chuck mentions that the filter comes with easy instructions and all that is required is a soldering iron, solder, and a de-soldering tool or braid. The filter is larger than the FL 44 A and consequently cannot be installed on the circuit board where the FL 44 A would be normally located. Chuck says he placed the new filter just above the main board in the same area as the original filter. Results, says Chuck, are impressive.

-- while on the subject of R70 and R71A modifications, several people have written regarding the effectiveness of Gerry Thomas's jumper wire across R 134 to improve the ECSSB capability of the receiver. Some have noted improvement in AM as well, while others found AM performance degraded. Interesting to note that several people claimed to be relative newcomers to the hobby, with little or no technical experience. Glad to see some of you tinkering with your receivers.....

Tubes: References are often made in regards to older, tube equipment that tubes are now difficult to find, with few choices among available brands. Recent advertisements in the amateur radio magazines lists: Transletronic, Inc., 1365 39th St., Brooklyn, NY 11218; Unity Electronics, P.O. Box 213, 107 Trumbell St., Elizabethtown, N.J., 07206; Rutan Electronic Sales, 164 Mercer St., New York, NY 10012; ETCO Electronics, North Country Shopping Centre, Plattsburgh, NY 12901; Elmira Electronics, P.O. Box 4230 Elmira, NY 14904; and Alpha Electronics, 1365-39 th St., Brooklyn, NY, 11218.

-- Anyone having other sources for receiving tubes, please let us know!

Delta Loop: This antenna, popular among 80 meter amateur radio DXers, was originally described by L.V. Mayhead, G3AQC, in CQ magazine, August, 1975. Essentially it is an equilateral triangle, cut for a specific frequency. It provides an acceptable match to low impedance coaxial cable when corner fed. Unfortunately, it requires a high support.

It is described in some detail in 80 Meter DXing, by John Devoldere, ON4UN, (published by Communications Technology, Inc., Greenville, NH.)

It is also described in the October 1984 QST magazine, "The Full-Wave Delta Loop at Low Height," by Doug DeMaw, W1FB, and Lee Aurick, W1SE. Construction at lower mast height is made possible by slanting the side elements away from the support.

It is also described in the January 1985 Ham Radio magazine, "The Reduced-Size, Full-Performance, Corner-Fed Delta Loop," by V.C. Lear, G3TKN. Reduction in size is made possible by the addition of loading stubs located on the base element, and a vertical stub suspended from the top, where the side elements converge.

--- Some NASWA members have erected versions of the Delta Loop for the 60 meter tropical band, consisting of 70 foot sides and suspended from a very tall tree. (Also 70 feet). The main advantages are broad band performance, and excellent response to low angle signals. Our good friend, Neal Perdue, mentions that it is quite likely the ultimate 60 meter DX antenna.

That does it for this month. Sincere thanks to Chuck Bolland and Neal Perdue, and all the folks who took the time to write.

-73 Jim



Computer Corner

Editor: Bill Cole / 107 Charles Street / N. Cape May, NJ 08204

Doug McClure coauthored Reception Report which appeared in the November CC. In response to my request for a contribution to CC, Doug created the following program.

QSL ADDRESSES by Doug McClure

This program was written for the VIC-20 with at least 8K memory and will also run on the C-64. It may be used with or without a printer. If you don't have a printer, omit lines 86-90 and 92-103 to save memory.

Enter the station's name and it displays the address and asks if you want hardcopy; then it asks if you want any more addresses. If you misspell a name or don't enter it correctly, line 60 will prevent the program from crashing.

If anyone has any questions, I'll be happy to answer them. Also if you want to write about S&L or computers, please feel free to do so. My address is: Doug McClure 744 Spruce St., Medina, Ohio 44256.

Ed's Note: Due to the length of Doug's program, we have printed the data statements, lines 130 to 999, in double columns.

```
20 PRINT"ENTER NAME OF STATION":INPUT$;RESTORE
50 GOSUB110
60 IF$="END"THENPRINT:PRINT:PRINT"NOT FOUND":PRINT:GOTO105
70 IF$(<>S$)THENGOTO50
75 PRINT:PRINT:IF$=S$THENPRINT$
80 PRINTA$;PRINTB$;PRINTC$;PRINTD$;PRINTE$;PRINTF$
86 PRINT:PRINT"HARDCOPY?":INPUTJ$:IFJ$="Y"THEN91
89 IFJ$="N"THEN105
90 GOTO86
91 OPEN1,4:PRINT#1,"*****":PRINT:PRINT
94 PRINT#1,S$;PRINT#1,A$;PRINT#1,B$;PRINT#1,C$;PRINT#1,D$;PRINT#1,E$;PRINT#1,F$
101 PRINT#1,"*****":PRINT:CLOSE1,4:PRINT
105 PRINT"ANY MORE?(Y/N)":INPUTJ$:IFJ$="Y"THEN20
106 IFJ$="N"THENEND
110 READS$,A$,B$,C$,D$,E$,F$:RETURN
130 DATARADIO TIRANA
131 DATARUE ISMAIL QUEMAL
132 DATATIRANA
133 DATAPEOPLES REPUBLIC OF ALBANIA
134 DATA
135 DATA
136 DATA
140 DATARADIO AUSTRALIA
141 DATAOVERSEAS SERVICE
142 DATABOX 4286
143 DATAGPO
144 DATA3001 MELBOURNE
145 DATAVICTORIA
146 DATAAUSTRALIA
150 DATAORF
151 DATASHORTWAVE SERVICE
152 DATAA-1136 VIENNA
153 DATAREPUBLIC OF AUSTRIA
154 DATA
155 DATA
156 DATA
160 DATABRT
161 DATAQSL BUREAU
162 DATAP.O. BOX 26
163 DATA1000 BRUSSELS
164 DATAKINGDOM OF BELGIUM
165 DATA
166 DATA
170 DATARADIO BELIZE
171 DATAP.O. BOX 89
172 DATABELIZE CITY
173 DATABELIZE
174 DATA
175 DATA
176 DATA
180 DATARADIO BRAS
181 DATAP.O. BOX 04-0340
182 DATA70000
183 DATABRASILIA
184 DATADF
185 DATAREPUBLIC OF BRAZIL
186 DATA
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COMPUTER CORNER (cont'd)

190 DATARAE
 191 DATAAYACUCHO 1556
 192 DATA1112 BUENOS AIRES
 193 DATAREPUBLIC OF ARGENTINA
 194 DATA
 195 DATA
 196 DATA
 200 DATARADIO SOFIA
 201 DATAD4 BD. DRAGAN TSANKOV
 202 DATASOFIA
 203 DATAPEOPLES REPUBLIC OF BULGARIA
 204 DATA
 205 DATA
 206 DATA
 210 DATACFRX
 211 DATA2 ST. CLAIR AVE. W.
 212 DATAMV ILE
 213 DATATORONTO
 214 DATAONTARIO
 215 DATACANADA
 216 DATA
 220 DATARADIO BEIJING
 221 DATAN. AMERICAN SERVICE
 222 DATABEIJING
 223 DATAPEOPLES REPUBLIC OF CHINA
 224 DATA
 225 DATA
 226 DATA
 230 DATAVOFC
 231 DATAP.O. BOX24-38
 232 DATATAIPEI
 234 DATATAIWAN
 235 DATAREPUBLIC OF CHINA
 236 DATA
 237 DATA
 240 DATARADIO HAVANA
 241 DATAP.O. BOX 7026
 242 DATAHAVANA
 243 DATAREPUBLIC OF CUBA
 244 DATA
 245 DATA
 246 DATA
 250 DATAHCJB
 251 DATACAS. 691
 252 DATAQUITO
 253 DATAREPUBLIC OF ECUADOR
 254 DATA
 255 DATA
 256 DATA
 260 DATARADIO CAIRO
 261 DATAENGINEERING DEPT.
 262 DATAP.O. BOX 1186
 263 DATACAIRO
 264 DATAARAB REPUBLIC OF EGYPT
 265 DATA
 266 DATA
 270 DATADEUTSCHE WELLE
 271 DATAP.O. BOX 10 04 44
 272 DATACOLOGNE
 273 DATAFEDERAL REPUBLIC OF GERMANY
 274 DATA
 275 DATA
 276 DATA
 280 DATARFI
 281 DATAP.P. 9516
 282 DATAF-75016
 283 DATAPARIS
 284 DATAFRANCE
 285 DATA
 286 DATA
 290 DATABBC
 291 DATABOX 76
 292 DATABUSH HOUSE
 293 DATAUC2B 4PH
 294 DATALONDON
 295 DATAUNITED KINGDOM
 296 DATA
 300 DATAVOG
 301 DATAP.O. BOX 19
 302 DATA16 MOURZI STREET
 303 DATAAGHIA-PARASKEV
 304 DATAATHENS
 305 DATAGREECE
 306 DATA
 310 DATARADIO BUDAPEST
 311 DATABRODY SANDOR
 312 DATAUTCA 5-7
 313 DATA1800
 314 DATABUDAPEST
 315 DATAHUNGARIAN PEOPLES REPUBLIC
 316 DATA
 320 DATAAIR
 321 DATAP.O. BOX 500
 322 DATANEW DEHLI 11000
 323 DATAREPUBLIC OF INDIA
 324 DATA
 325 DATA
 326 DATA
 330 DATAKOL YSRAEL
 331 DATAIBA
 332 DATAP.O. BOX 1082
 333 DATA91-000
 334 DATAJERUSALEM
 335 DATAISRAEL
 336 DATA
 340 DATARAI
 341 DATACASELLE POSTALLE 320
 342 DATAROME
 343 DATAREPUBLIC OF ITALY
 344 DATA
 345 DATA
 346 DATA
 350 DATANHK
 351 DATAJINNAN 2-2-1
 352 DATASHIBUYA-KU
 353 DATATOKYO 100
 354 DATAJAPAN
 355 DATA
 356 DATA
 360 DATARADIO PYONGYANG
 361 DATAPYONGYANG
 362 DATADEM. PEOPLES REPUBLIC OF KOREA
 363 DATA
 364 DATA
 365 DATA
 366 DATA
 370 DATARADIO KUWAIT
 371 DATAP.O. BOX 397
 372 DATAKUWAIT
 373 DATAKUWAIT
 374 DATA
 375 DATA
 376 DATA
 380 DATARADIO JAMAHIRIYA
 381 DATAMINISTER OF INFORMATION
 382 DATAP.O. BOX 333
 383 DATATRIPOLI
 384 DATASPLAR
 385 DATA
 386 DATA

COMPUTER CORNER (cont'd)

390	DATARADIO NORWAY	490	DATARADIO DUBAI
391	DATABH. BJORNSSONS PLASS 1	491	DATAP.O. BOX 1695
392	DATAOSLO	492	DATADUBAI
393	DATAKINGDOM OF NORWAY	493	DATANUNITED ARAB EMIRATES
394	DATA	494	DATA
395	DATA	495	DATA
396	DATA	496	DATA
400	DATARADIO PAKISTAN	500	DATARADIO MOSCOW
401	DATAWORLD SERVICE	501	DATAN. AMERICAN SERVICE
402	DATAP.O. BOX 443	502	DATAWORLD SERVICE
403	DATAKARTAHI	503	DATAMOSCOW
404	DATAPAKISTAN	504	DATAU.S.S.R.
405	DATA	505	DATA
406	DATA	506	DATA
410	DATARADIO PORTUGAL	510	DATAVATICAN RADIO
411	DATARUA DO QUELHAS 21	511	DATAVATICAN CITY
412	DATALISBON	512	DATASATE OF THE VATICAN
413	DATAPORTUGESE REPUBLIC	513	DATA
414	DATA	514	DATA
416	DATA	515	DATA
417	DATA	516	DATA
420	DATARADIO BUCHAREST	520	DATARADIO HANOI
421	DATAP.O. BOX 111	521	DATASB QUAN-SU STREET
422	DATABUCHAREST	522	DATAHANOI
423	DATASOCIALIST REPUBLIC OF ROMANIA	523	DATASOCIALIST REPUBLIC OF VIET-NAM
424	DATA	524	DATA
425	DATA	525	DATA
426	DATA	526	DATA
430	DATARSA	530	DATALRNO
431	DATAP.O. BOX 4559	531	DATAP.O. BOX 100
432	DATAJOHANNESBURG 2000	532	DATANEW ORLEANS
433	DATAREPUBLIC OF SOUTH AFRICA	533	DATALOUISIANA
434	DATA	535	DATAT0181
435	DATA	536	DATA
436	DATA	537	DATA
440	DATASFR	540	DATARADIO PRAGUE
441	DATAGENERAL YAGUE 1	541	DATAN. AMERICAN SERVICE
442	DATAMADRID 20	542	DATAPRAGUE 2
443	DATASPAIN	543	DATASOC. REPUBLIC OF CZECHOSLOVAKIA
444	DATA	544	DATA
445	DATA	545	DATA
446	DATA	546	DATA
450	DATARADIO SWEDEN	550	DATARBI
451	DATAS-105 10	551	DATANALEPASTRASSE 18-50
452	DATASTOCKHOLM	552	DATABERLIN 116
453	DATAKINGDOM OF SWEDEN	553	DATADEMOCRATIC REPUBLIC OF GERMANY
454	DATA	554	DATA
455	DATA	555	DATA
456	DATA	556	DATA
460	DATASRI	560	DATARADIO GHANA
461	DATAOVERSEAS SERVICE	561	DATAP.O. BOX 1633
462	DATACH 3000	562	DATAACCCA
463	DATABERNE 16	563	DATAREPUBLIC OF GHANA
464	DATASWITZERLAND	564	DATA
465	DATA	565	DATA
466	DATA	566	DATA
470	DATAVOT	570	DATARADIO BAGHDAD
471	DATAGENEL MJDRUGU	571	DATADIR. GENERAL OF BROADCASTING
472	DATAMITHAT PASA CADESSJ 37	572	DATASALITHIYA
473	DATANKARA	573	DATABAGHDAD
474	DATATURKEY	574	DATAREPUBLIC OF IRAQ
475	DATA	575	DATA
476	DATA	576	DATA
480	DATARADIO KIEV	580	DATARADIO LUXEMBOURG
481	DATARADIO CENTRE	581	DATACO. LUX. DE TELEDIFFUSION
482	DATA26 KRESCHATIK	582	DATAVILLA LOUVIGNY
483	DATAKIEV	583	DATAGRAND DUCHY OF LUXEMBOURG
484	DATAUKRANIAN S.S.R.	584	DATA
485	DATAU.S.S.R.	585	DATA
486	DATA	586	DATA

COMPUTER CORNER (cont'd)

590 DATAVN
591 DATAEXTERNAL SERVICE
592 DATAP.M.B. 12504
593 DATABROADCASTING HOUSE
594 DATALAGOS
595 DATAFEDERAL REPUBLIC OF NIGERIA
596 DATA
600 DATARADIO POLONIA
601 DATAENGLISH SECTION
602 DATAP.O. BOX 46
603 DATA00-950 WARSAW
604 DATAPOLAND
605 DATA
606 DATA
610 DATABSKSA
611 DATAMINISTER OF INFORMATION
612 DATAENGINEERING DEPT.
613 DATARIYADH
614 DATAKINGDOM OF SAUDI ARABIA
615 DATA
616 DATA
620 DATARADIO YUGOSLAVIA
621 DATAEXTERNAL SERVICE
622 DATABOX 880
623 DATABELGRADE
624 DATASOC. REPUBLIC OF YUGOSLAVIA
625 DATA
626 DATA
630 DATASLBC
631 DATASUP.OF ENGINEERING-TRANSMITTERS
632 DATASRI LANKA BROADCASTING CORP.
633 DATAP.O BOX 1510
634 DATATORRINGTON SQUARE
635 DATACOLOMBO
636 DATA REPUBLIC OF SRI LANKA
9999 DATAEND,.....

From "The Big Island Trading Post" of 10/31/84 courtesy of John T. Arthur, Pahoa, Hawaii.

New International Language:
"American Rock"

TOYKO—Even though Japanese youths cannot understand the disc jockeys' patter on the Far East Radio Network (FEN), they eagerly tune in to hear real American sounds.

Exploiting the current fad, electronics giant Sony marketed a radio this May that receives only FEN broadcasts. Sales of the 3,600-yen (\$14) radio have been so brisk that many retail stores report they cannot keep them in stock.

Japanese are not listening to FEN because they want to improve their English, but because the station, which broadcasts mostly pop music, conveys a feeling of America.

There are many cheaper radios available that receive other stations as well as FEN. But with the one-station radio, "FEN freaks" can openly display their loyalty.

A spaghetti restaurant in Toyko, where most diners are young women, keeps its radio tuned to the U.S. Department of Defense station.

The 35-year-old manager said that radio programming on local stations did not provide the mood he wanted for his eatery.

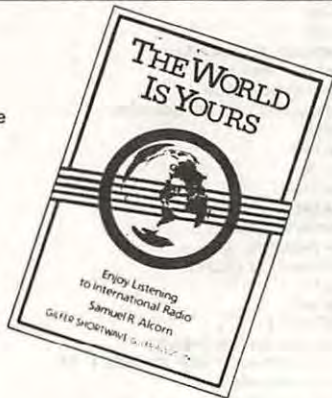
FEN began broadcasting popular music and international news for U.S. military personnel in East Asia in 1945. Japanese listeners are estimated to number about 3 million.

An excerpt from, "Why Things Go Wrong", by Laurence J. Peter:

• The Voice of America sent the following guidance to editors: "Disregard the message sent asking you to disregard NAT-2 because NAT-2 was not sent. Thus you are asked to disregard the message sent asking you to disregard the last message."

A recent entry to the Gilfer product line is "The World Is Yours", a 64 page book written by SWC-regular Sam Alcorn.

The book has been written to introduce the uninitiated "into a new hobby--the world of international radio". While other so-called beginner books have been based on a partial understanding of the hobby, Sam has started from the very beginning, answering the most basic questions in non-technical language. It's an ideal choice for the layman totally unfamiliar with our hobby.



The book is available from Gilfer Shortwave, 52 Park Avenue, P.O. Box 239, Park Ridge, NJ 07656 for \$2.95 plus \$1 shipping. As regular SWC readers know, Sam's work is excellent so mention SWC and NASWA when writing. (JH)



73s.

Heck

FEBRUARY 1985



Listeners Notebook

GLENN HAUSER, Box 490756, Ft Lauderdale FL 33349

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AFGHANISTAN In its own report on opening of regional radio stn in Jalalabad, Czech nx agcy CTK stated 18/12 that its task'd be to acquaint listeners w/essense & aims of rev'ly govt and to counter slanderous counter-rev'ly propaganda beamed from neighbouring Pakistan. More than 20 hostile radio stns, CTK reported, were being 250h a week of 'seditious propaganda' in langs of Afghan nation from Peshawar and Quetta in Pak, Iranian borderland, and especially the USA and Western Europe. Dangerous step of escalating psychological pressure on democratic Afgh was Washington's intention to start regular VOA bcs from Peshawar, a mere 60 km from Afgh border. It was therefore highly important for Afgh to counter slanders of seditious radio stns. Afgh expanded extent & impact of its bcs yearly. In addn to Radio Seda Vatan (V of the Fatherland) being for Afghans in neighbouring countries, R Kabul had bcs in 5 langs for for listeners. In near future, a third provincial studio of Afghan TV'd be opened in Jalalabad (WBI 3/1) More, Last Minute Information

ALASKA KNLS, Anchor Point hrd on new 6120 *0930 in RS to FE, ex-6085; 0700-0930 EG still 6085 (Dennis Allen, NSW, RA Japanese DX Time 6/1) more, LMI

ALBANIA R Tirana in EG to NAM: 0000-0030 7067; 0130-0200 & 0230-0300 7120; 0330-0400 7300 6200; 1230-1300 11960 9555 (WBI 10/1) Note 9 MHz channel no longer mentioned; dropped, or just unhrd due to low MUF? I've also noted 1230 11960 making it, whilst that xmsn was long a write-off during sunspot peak years (gh)

ALGERIA Official RTA D84 sked in fuzzy mimeo: 6145 06-17 AR ME; 6160 06-2230 AR Eu 'Grand Sud'; 7245 05-08 Kabyle, 08-11 AR, 11-14 KB, 14-16 AR, 16-22 KB EuGS. 9510 05-1030 FR, 1030-11 SP, 11-18 FR EuGS. 9640 19-24 SP, 00-0030 FR SAM. 9685 05-1030 FR, 1030-11 SP, 11-20 FR, 2000-2030 EG, 2030-2100 SP Eu. 11715 05-21 AR CEu. 15160 07-1030 FR, 1030-11 SP, 11-18 FR Eu. 15370 05-22 AR ME. 17745 06-1030 FR, 1030-11 SP, 11-20 FR, 20-2030 EG, 2030-21 SP, 21-24 FR W&Eaf. 15215 [listed out of order, perhaps replacing a fq above 17745] 07-09 FR, 16-20 FR, 20-2030 EG, 2030-21 SP, 21-0130 FR SAM (via Charles Foxx, VA)

ARGENTINA, LMI /more, LMI

ANGOLA Em Prov do Mexico, 5191.3, on late for New Year 31/12-1/1 2126-0130+, G-E w/ Angolan hifile mx, TCs, phone numbers, (Reinstein, Wilkner, Kamp, DX South Florida)

AUSTRALIA R Australia reactivated USB feeder on 12290, G 1300-1700+ (RNNM 17/1)

AUSTRIA ORF on 6000 // 6155 hrd 24/12 1620 Xmas mx, 1700 GM nx; also 2100-2256* on 6000 //5945 (Ernie Behr, Kenora Ont)

BAHRAIN Bahraini nx agcy WAKH reported 13/12 that in an iv for BTV, Secy Genl of GCC =Gulf Coop Council--said V of the GCC radio svc'd resume being w/in next 2 weeks (cf KUWAIT in Jan LN). Every GCC member state'd have two hours of xmsn in conjunxion w/others 'to ensure coverage of required topix'. Also said GCC TV stns should convey opinions and directives of member states thru their TV nx (WBI 20/12)

BANGLADESH R Bang in EG from IS 1229 to 1300 on 11935, surprisingly readable sig; ID as Overseas Svc of R Bangladesh; tnx for tip! (Chris Bagge, Springfield MA) Which originated with Alan J Knapp, Forest VA (gh) Also audible here, but poorly (gh, FL) LMI

BELIZE Re Clark's QSL in Jan LN, recently rxd QSL indicates power reductions but chck of WRTH 84 shows same reduced powers. My card had correct MW fq, presumably because I sent a MW report (Richard A D'Angelo, Wyomissing PA) Numerous press reports say VOA has reached agreement to position another MW relay here (gh) BELGIUM LMI

BHUTAN NYAB Sunday bc 0830-0900 hrd 18/11 on 6970 stead of ancd 7040; 6970 VG & QRM-free, unlike 7040 plagued by RT & WT [?] utes 25/11, found on 6895, L&C again. These large changes may not be xmtr drifts but deliberate changes to search out some clear chs. Lately NYAB has acquired quite a large audience in India for its Sunday Nepalese and EG bc, and this is based on growing number of requests hrd in bcs. NYAB has to escape ute QRM to its low powered xmtr. 2/12 on 7170 instead of 7040, het due to AIR nearby (Prodyut Banerjee, Calcutta, Nov Asian DX Review)

BOTSWANA Hrd regularly since move to 4820; short religious talk in EG before 2100*; E 31/12 from 0350 IS till 0500+, not all EG (Chris Bagge, Spfld MA) I also note RB on new 4820 ex-4848 and // weaker 7255, 4/1 0350 w/barnyard IS tape loop, 0359 hymn, ID in EG/Setswana by M ment'ing 972 MW & FM; W w/tx, Commodores mx & M w/tx; 5/1 4820 inaudible and 7255 fair; logged earlier on new fq but thought it was HRVC! (Dale Park Honolulu HI) Yearend special 31/12 2130-2300*, 4820 (Dario Monferini, Play-DX, Italy) 2130-2330+, on late for NY celeb, played same Beatles record at 2202 & 2221, VG w/ HRVC barely hrd underneath; 1/1, Latins nearly all attenuated, allowing exceptional Af reception (Steve Reinstein, Miramar FL, DXSF)

BRAZIL GH's unID on 3375 hrd during CANAV-DX is R Ecuatorial de Macapá, hrd here 1/1 0449-0531 t/out; QRN & QRM at t/in but cleared at 0519; got clear IDs at 0522 & 0530; also hrd 3/1 shortly after 0430 check (John Tuhscherer, WI) R Equatorial, Macapá is ex Educadora São José. Dir-Gen is Roberto Braga Cardoso Silva; 1 kw xmtr model BTA-1000 SNW, sked 2100-1100 (Antonio R da Motta, Brasil via Olie Alm, SWI 30/12) Hrd at 0705-0800, call is ZYF361, 22/12, 23/12 (Stefan Bursell, ibid 2/1) R Dif Maranhão, hrd on 4870.7 27/12 0330, spur from 4755.2, also 4639.7, + 115.2 kHz (ibid.) Stn on 4115v is R Difusora, Sena Madureira, Acre; from phone call to stn, Dir-Gen is Eduardo Réis Ferreira, who told me stn uses 250 W xmtr experimental fq; addr: Avenida Avelino Chaves 707, 69940 Sena Madureira AC, Sked: daily 1000-0230 (Antonio Ribeiro da Motta, São José dos Campos SP, Dec. via Radio Nuevo Mundo, Japan) & on 17/11 at 0112 it was on 4108 (da Motta, ibid.) more, LMI

BULGARIA R Sofia EG to Eu & Nam DB4: 0730-0800 9700 11720, 1930-2000 6070 9700, 2130-2200 6070 7115 9665, 2230-2330 & 0000-0100 9700 11720, 0400-0500 7115; includes DX pgm as 2nd & last item on Fri; 2nd & last item on Sat is Mx from Bulgaria (via Charles Foxx, VA)

BURKINA FASO undated sked still called RTVV, but République de Haute-Volta marked out [by stn or reporter?]; and Burkina Faso inserted: 4815 05-09 & 17-24, 7230 09-17; but with variations: Mon/Wed/Tue/Fri 0530-09, 12-14, 16-24; Sat/Sun 07-24; Thu 0530-24 GMT; in FR, EG, natl langs (via Charles Foxx, VA) BURMA, LMI

CAMEROON Yaoundé on 9745 at 2035-2118 12/1 & 13/1, SIO 353; last month I said EG was half-hour-wrong! Altho noted repeatedly in Dec w/30mins EG, now note FR to 2100 EG nx from Natl svc; this fq is Int'l svc; nx report is VG in coverage of Af events (Richard A D'Angelo, Wyomissing PA) EG 2100-2115 nx also carried on 4850 and by Garoua 5010, as of 5/1 anyway (Chris Bagge, Spfld MA) more, LMI

CANADA RCI reported 12/12 that CBC had reacted to govt's demand for a 75 megadollar cut in its budget; more than 1.1 kilojobs'd be eliminated and there might also be paycuts to save 30 mega\$. \$15.5+ mega'd be cut from R&TV pgming budgets; another major reduction of 13 mega\$ from capital budget'd affect running of training svcs and replacement of obsolete eqp; as for RCI, budget'd be cut by about 5% (some 670 kilo\$) to just under 13 mega\$ yearly. RCI Dir said economies being considered incl reduction in number of fqs used to bc pgms; another approach'd be to beam individ pgms to more than one area. Number of pgms RCI records for distrib to 3rdWorld countries 'd also be reduced (WBI 20/12) Nam Mbg pgm already put to death 13/1 (gh) CHAD, LMI

CHINA Guangxi radio stn has new extl svc in Viet on 5050: Own pgm at 1000-1100, repeated at 1100 & 1200; and re-bc of R Beijing's 1100 at 13, 14, 15-16; inaugurated 1/12 (WBI 10/1) more LMI

COLOMBIA CARACOL stn on 5937 from 2300 Col mx past 0630 Xmas eve, much weaker than before; no IDs, but mentd Pto Carrero & Pto Ayacucho; some days closes at 2300 or 2400v (Ernie Behr, Kenora Ont, 29/12) 5936, 1/1 2240-2255* & 2/1 *0900-0934; mentd 95 FM, Vichada (Lazarus, DXSF) More, next page and LMI

RDif Nacional active again on 4953.5, 12/11 0111-0130, pops, letterbox, ID (Stefan & Erika Schliephacke, W Germany, DSWCI SW News)

COOK ISLANDS R Rarotonga still 24h on 11760; tnx to and depending on Nuoroa (sp?) who has also got permission to continue extend sked after the games (Bill Whitacre, NZ via Arthur Cushen, RNMN 17/1) more, LMI COSTA RICA LMI

CUBA R Rebelde, Habana now on 5025, strong 19/12 0100 w/Cuban mx & nx to 1330 f/out, maybe 24h (Ernie Behr, Kenora Ont) RHC audible on 11790 in EG 0630, // 9525; 25m out-let not listed in sked (Philip Harrison, WA, RA JP DX Time 30/12)

CHILE Police raided a rebel radio stn and one insurgent was killed, a spokesman for the military govt said today. Govt Secy-Genl Francisco Cuadra said on local TV police found being eqp used by the rebel R Liberación, 48 stix of dynamite and two sub-machineguns during the raid last night in a Stgo suburb, at the home of Fernando Vergara, a 35-year-old member of the Rev'ly Left Movement (MIR) guerrilla group, who died in a shootout after trying to stop police from entering. MIR has claimed responsibility for several bombings, including one which killed four policemen last month in Valparaíso, 70 miles NE of here. Shortly after that attack, Pres Augusto Pinochet imposed a state of siege in a crackdown on political dissent and violent unrest against his 11-year-old rule (Reuter, Santiago, 16/12 via David Alpert, NY) French mx agcy AFP reported it'd been off'ly ancd in Stgo 16/12 that Chilean Govt security forces'd discovered cland R Liberación Nacional operated by MIR and that they'd taken over its installation which was in Stgo. Stn'd bc for metro area and in Valparaíso & Viña del Mar. Govt Secy-Genl said this'd been a great defeat for MIR and that RLN had several times disrupted TV channels and radio stns, particularly during so-called natl days of protest (WBI 3/1) more, LMI

DENMARK RD now on new sked from Dec begin, incl: 2100-2145 11810 ex-9730 Grnd/Pac/SEu/WAF; 0000-0052 9730 ex-9760 NAM; 1500-1552 15185 ex-15150 ME/EAF; 1600-2052 on 11810 ex-17770/9765/15165 for various areas; all in DN (Finn Stelmach, S Australia, RA JP DX Time 6/1) more, LMI

DOMINICAN REPUBLIC Sun 1600-2300 bc of R Earth via R Clarín not audible on 1700 13/1, but coming in well 20/1 tho not free of QRM; no mention of nightly 0300 bc and presumed dropped; also unhrd (gh) R Monitors Intl via R Earth, Sun 2130 topics: 3 Feb Diego García, Indonesian tuning sig; 10 Feb Indonesian new stn, focus on Honduras; 17 Feb AIR Ranchi, local radio in Greece; 24 Feb RCI 40th anniv, Asian 792 kHz (AWR) /more LMI

ECUADOR R Pastaza, every day without fail, comes up on 3491.9 around 1106, and about 15-20 mins later shifts down to 3316; Sundays & holidays this does not occur during the 1100 hour. Music starts at 1109, 1114 full opening ID, mx till 1120 when sig suddenly disappears and reappears on 3316, which has been vacant. Is the stn engr tuning up the incorrect fq? Why would he do it incorrectly every day? Maybe xmtr is being used for another purpose on 3491.9 overnight and then they forget to retune? Doubtful! Probably they have a malfunctioning xmtr that will not xmit on the tuned fq when it is turned on from a cold start. Obviously they realize this and that is why they xmit mx for 10 mins or more before giving opening ID & slogans; they must hope that the mx warmup is enough time for xmtr to shift down to 3316 before opening ID. Unfortunately, they've been coming on the air after 1100 by a few mins, not giving xmtr enough time to shift. That's why opening IDs are always on 3491.9 and not on 3316. First noted 27/12; fair 2/1; 28/12 3491.9 at 1104-1128 (Chuck Bolland, Lake Worth, FL) LV del Upano, 5040 strong from 0430 w/ID, church xms & songs to 0543* Xmas eve. R Jesús del Gran Poder, 5050, also from 0430 w/Ec Xmas mx & chch svc to 0619* 25/12 (Ernie Behr, Kenora Ont) more, LMI

FRANCE RFI reported 31/12 that from 1/1 it'd start being in Romanian 1630-1730; RFI printed pgm sked has been showing such a xmsn since 6/5/84. RFI added it hoped to extend svcs to As w/new xmtr in Sri Lanka and to expand opns to IAm; also plans for a MW xmtr in Paris region (WBI 3/1)

GHANA GBC reported 3/1 an agreement signed in Accra w/Japanese ambassador for 145 megacedi grant for rehabilitation of GBC (WBI 10/1)

GREECE unID Greek pirate, with distorted voice hrd 5/12 2245 on 4923; careful not to take this for something more exotic (Dario Monferini, Italy, Play-DX) Depends

GUAM Licence has been granted for new SW stn for Adventist World Radio. Dr Alan Steele, previously mgr for AWR-Eu has been appointed mgr for new AWR-As & he'll take up post 1/1/85, relinquishing mgmt of ARN stn WAUS Berrien Springs MI. Also from 1/1, the AWR unit based in Poona, India will be designated AWR-Southern Asia, so new Guam stn can be called AWR-Asia (AWR Asia, India, 11/12) KTWR DX Listeners Log resked to: 1000 on 11840, 1530 on 9535 (ex 1345 on 9510); morn [0043 17790] same (Deepak Sarma, ADXR Nov) Pgm is on Sats (gh)

GUATEMALA AWR, Unión Radio has 3 xmtrs, MW 1330 TGMU, FM 105.5 "Advent-stereo", TGMV, SW 6090 TGMW LV de la Iglesia Adventista en Latinoamérica, [SW had been TGMUB call]. Unión Radio was purchased in 1979 by the 7th Day Adv Chch and converted into AWR-Lam. AM & FM began being from new location in Adv HQ office in Guat City May 1979. SW out-let became opl w/test bcs Mar 80. 10 kW xmtr suppressed to 3 kW output, radiated from a simple vertical ant. Subsequently, new ant installed on mtn top 12 mi away, and VHF feeder installed. Another new ant to be put into svc in 1985. AWR currently on 6090 at 1100-1300 & 0000-0200 SP, 0200-0400 EG (Christian Zetli, visiting Guatemala, Dec Radio Nuevo Mundo)

INDIA AIR w/DX pgm 24/12 [Mon] 1430 to 1500* on 9540; well jammed by Holy Roller stn on 9535 (Mark L Williams, Emmett ID) Supposed to be on 9545, 11810, 15335 1330-1500. Other EG in the AIRGOS: 1000-1100 17875 17705 17387 15320 15230 15130. 1800-2000 on 15265 11830; 1845-2230 11630 9665 7170; 1945-2045 11865 9755; 2000-2230 9912; 2045-2230 11875 9550; 2245-2400 6035, 2245-0115 11765 11715 9912 9595 7215, 0000-0115 on 15175 15110 (WBI 20/12)

INDONESIA - 3L25, RPD2 Indragiri Hilir, Tembilahan, Propinsi Riau, So. Sumatera. Here's one long thought to have existed, but never before "DXed" prior my log on 5 Jan at 0110-0215. Hrd w/big, solid Sumateran sig, and excellent modulation, both smnts and scornful Indo love songs 0132-0202 running cultural program transcription about Sumateran indigenous cultures like the Minangkabau. At 0203, theme song "Help Me Make it Through The Night" and then OM introduces regional moast, "Radio Pusat Informasi Udara Indragiri, dengan warta berita daerah dan warta negeri...tingkat Kab. Indragiri Hilir..." Many local QTHs mentioned, incl. Tembilahan and Rengat, which is ibukota of sister regency of Indragiri Hulu. Quick abbreviated ID 0210 simply as "Radio Indragiri." An enjoyable catch. (Perry)

3901v, new freq, RFD Kab. Karo, Kabinjaha, the peripatetic Pemerintah'er of N. Sumatera makes another novel. Here since 30 Dec with vastly improved signal which will likely make it overseas. Vg nice clarity, steady signal, though drifts in range 3901-3897. Before this latest HF, had settled for a few weeks on 4350-55v range with reasonable power but horrendous mod. Still annoying "72 meter band", and probably always will as that's been the "official" freq since that 1974 listing DF uncovered! Sig too good on 3900v to not be intentional. Often hrd w/lagupope like local version of "Flashdance", Jak nx rlys faithfully picked up, ID 0102 on 5 Jan as "Inilah Radio Pemerintah Daerah Kab. Karo di udara gelombangnya 72 meter band." Enjoyable ads include those for kacang (soya sauce) and the ubiquitous Pepsodent jingles. (Perry)

30174, RPD2 Kempar, Bangkinang, Propinsi Riau, So. Sumatera. Ditto the remarks on Tembilahan item above - here's the whereabouts of another one we all thought probably existed. Noted 1 Jan 85 with fair but fadgy sig at 0100 (9 a.m. locally), improving somewhat with time. Pgm of lagu melayu, some greetings to listeners. Held to 0210 t/o. A local stn w/a sense of humour: ancr joking and laughing his way through listeners' ltrs, amused in particular by one who tho't stn was more exalted than it actually is - "no, no, bukan radio ini Radio Republik Indonesia. Belumlah ini Radio Pem-da, baik-lah!" (No, no, this station isn't RRI - not yet! This is regional govt radio, right!) Lots of "Apa Khabars" (what's new?) to listeners in Bangkinang. Caught ID as soon as I found this one's audio: at 0102 OM "...selamat pagi pada pendengar-teman dari Radio Pemerintah Daerah Tk II Kempar...". (Perry)

2L33, RRI Banda Aceh, big sig tho' bad QRN at 12L0 w/nondescript Indo pops. At 1258, YL gave local ID, "Inilah Radio Rep. Indonesia Banda Aceh di gelombang 125 meter..." Don't know how typical the Sumaterans are compared to all the rest of Indonesians, and the Sumateran RPD stns in particular compared to the rest, but I've been struck that the ID-on-the-hr is a definite nonstarter of a concept! Virtually never a local ID from Sumateran RPDs before joining Jakarta for a relay. . . the nearly always a local ID, of sorts, upon returning to the local programming. Now, RRI's are probably a completely different matter - more disciplined re ID frequency. (Perry)

378L-3794, unid Indg, non-RRI, same as stn prev hrd 3800v. This one a real mystery, and many hrs devoted to cracking this one to no avail, thus far. Best IDs have remained elusive, tho' partial comprehension would indicate this is a vy interesting stn, not an RPD stn and not a Kotamadya stn, tho' evidently a municipal stn of sorts. On 2 Jan at 1130-1115 hrd w/request show. At 1210, after Jak rly, smt: "Kembali disini ke Radio Suara Kota (?) yang...gelombang tingal 75,3 meterband frekuensi 3984,06 KHz..." Remote chance this is located in Pangkalanbrand but not confirmed. A most frustrating stn! (Perry)

General note: DXers have been missing out on one tool for siting unid stns. While nothing works quite like an ID (hi), every added clue helps. I've been finding that the Asan Maghrib, the evening call to prayer, is a dandy way to determine approximate longitude of stn within the Indo archipelago since the darkness terminator gives you a great general idea. The IX Edge aliderrule device is perfect for this. Now, this idea should of course be used with caution, but at least here in Kuala Lumpur, the time for evening call to prayer is scientifically calculated right down to the second, with a big clock appearing on TV screens at dusk, counting off the seconds! Reasonable to expect at least some degree of precision, for Allah's sake, in Indonesia! (Perry) * VARIASI SINYAL, WITH CHANGING FREQUENCY/AMPLITUDE TIME.

Unids under the microscope: 35574 at 0905, lush mx and poor modulation; 3705v-3712, relaying Jakarta at 2300; 3 Sumateran; 3299.5; 3770 at 0220; 3511 to 0332; and etc!

RRI Sorong appeared on 4828 briefly 4/1 ex-4870.5 at *1045-1115+ with distorted audio but returned to 4970.5 [sic] by 1148; same again on 5/1 (Mark Warner, Melbourne, Vic) RRI stn noted on 4899m at 1514 4/1 in IN, M w/overmod talk, brief interlude; ID as R Republik Indonesia Surakarta or similar; brief fuzzy gamelan mx, then ad w/reverb; RTTY QRM co-channel; if it's Surakarta, WRTH listing of 500 watts is wrong (Dale Park, Honolulu HI) unID on 4845.3, 2110+ big het on 4845 Nouakchott & Manaus most afternoons; faint audio, but not enough to ID, but I'd bet it's RRI Ambon, as 4845.3 is their exact fq when heard mornings, and 2110 is just before Ambon's local sunrise (Steve Reinstein, Miramar, DX South Florida 17/1) Three or four stns are noted around 5045: on 5043.6 tent Jayapura, poor to 0900v; from 1100v tent Wamena on 5045.4 ex-5044.7 to 1500. Yobyakarta on 5045.8 21/9 1500 ex-5046.3 ('HM' [not otherwise identified], Dec DSWCI SW News) more, IMI

RRI reported 19/12 that per his decision No. 226 of 1984, the Minister of Info said that non-RRI bc stns were prohibited from presenting nx; compelled to relay nx from central RRI stn in Jakarta beginning with 2200 bulletin, then hourly including commentaries, reportages and press reviews. Info Min's decision was aimed at increasing development and role of non-RRI bcng svcs [sic]. An RRI report 22/12 said the Assn of Natl Private Radio-being Stns (PRSSNI), which had a membership of 392 private radio stns thruout Indonesia, had welcomed and was ready to implement the IM's decision No. 226 with a high sense of responsibility and awareness. PRSSNI had accepted the decision with a sense of pride because the govt recognised and trusted the private radio stns which were able to support the RRI bcng stn in its task of disseminating info. With effect from 1/1, all PRSSNI members would comply fully with and implement the IM decision (WBI 3/1) What a marvelous idea for a NY resolution: number one's decisions

INTERNATIONAL VACUUM TASS reported 20/12 fulfillment of a project by Soviet scientists'd make it possible to dispense with many comsats. By using the property of a powerful radiowave to concentrate plasma into a clot, the formation of which had previously only been ascribed to cosmic rays, scientists intend to create a cloud of hot charged particles in the ionosphere, which might serve as an excellent reflector for TV sigs. Moreover, mirror cloud could be given such shapes and properties that it would reflect radio and TV sigs back to strictly defined regions on the Earth's surface. Dir of the Institute of Terrestrial Magnetism, Ionosphere and Radiowave Propagation, a part of the USSR's Academy of Sciences where the project had been worked out, has said that the powerful electromagnetic pulses would not destroy the ionosphere which protex the Earth from deadly cosmic rays. On the contrary, pulses increased the concentration of ions in the near-earth plasma as well as their protective properties (WBI 3/1) A la the Platteville CO experiments; when to implement? (gh)

Kyodo reported 3/1 a plan to launch large TV bcng satl into orbit over equator and to start bcng svcs to 15 Asian & Australasian developing countries'd be anc'd by the Japanese Ministry of Posts and Telecomms' Radio Research Labs and the NEC Corp at the regular session of the Pacific Telecomms Conf, opening in Honolulu 14/1. Plan envisaged bcng of TV svcs produced by countries involed back to them via satl--Pakistan, Nepal, Bhutan, Burma, Bangladesh, the Maldives, Sri Lanka, Solomon Is, Nauru, Kiribati, Tuvalu, Vanuatu, Fiji, Tonga, Western Samoa. The 500-kg satl, costing some 210 megabux and taking 3 yrs to develop, 'd be launched into orbit at [sic] 125°E. Carrying 16 transponders and multi-beam ants, it'd relay TV sigs from Japan to the 15 nations. A dish ant about 1 m in diametre 'd be needed to rx the satl bcs (WBI 10/1)

IRAN IRIB Managing Dir said in Mashhad 14/12 that powerful MW & SW stns'd be established in border areas 'so that the msg of the Islamic rev in Iran'd be carried outside the country'. In its own report on opening of the Shahid Modarres xmitng stn, VOIRI quoted IRIB Managing Dir that re ES, IRIB sigs were weak. QRM to VOIRI very great. Many countries axually jamming Iran's radio xmtrs or bcng pgms from powerful xmtrs on same fqs. To deal w/this problem, IRIB set up project involving installation of powerful xmtrs along country's borders, which'd bc Rev's msg on MW & SW on a wider radius thruout the world (WBI 20/12) & when will they learn about skip distances? Border placement not necessarily advantageous (gh)

R Krazy Khomeini now on 5015 11/12 2130 breaking our balls and the "invurnits" (stupids) of Iraq still on 4991 (Play DX, Italy, 17/12) [sic]

VoIRI hrd on new 6150 from *1515 w/NA & Russian pgm to 1615, then AR but weak mod 24/12 (Ernie Behr, Kenora Ont)

IRAN/IRAQ stns continue to show up on new fqs: 19/12 hrd AR or KD on 7270 from 1500 u/flutter jmr, same jammers also on 5960 7140 7190 7230 9685; another on 6035 past 2130. Stns on 9510 & 9511 are gone, but 24/12 hrd "Sawt ath-Thowrah Islamiyah" on 9685 in AR at 1425-1500+, same as on 9511 in Nov; same stn hrd 25/12 on 7188 in AR to 1429+, nothing on 9685 but fltr-jmrs on 5915 6195 7185 7215 7280 9515. AR bcs

could be from VoIRI, per ID, but fqs & times are constantly changing. Another unID AR pgm on 9575 at 1700-1729* since 1/12, but mx sounds Afghan (Ernie Behr, Ont)

IRAQ Sawt ul-Jamahir on new 6190 since 19/12, ex-7130; booming sig *1400-1700+ in AR, // 7120 7260 9505 9635 9665 (Ernie Behr, Ont) Sawt/Jam on 6190 1400-2300* (Noel Green, UKOGBANI, RCI SWL Digest 12/1) = Voice of Masses, 6190 NF 1400-2300 ex-7130? But still on 7120 (Roger Tidy, UKOGBANI, Media Monitor, via SCDX 15/1)

ISRAEL A controversy has been brewing in Israel during the last few weeks over the disclosure that talks are underway between US and Israeli negotiators over a SW relay base for VOA which US'd like to set up in Israel. Proposal calls for high powered xmtrs and large ants which'd be used to relay VOA xmsns to SU. US first proposed the relay stn to several other Mediterranean countries but they turned the project down. Israeli politicians basically have expressed two contrary views; some say the SW relay base'd aggravate already soured relations between Israel and the SU and'd harm Israel's efforts to encourage the SU to allow emigration of Jews from Russia to Israel. Opposing view is that since Isr is so heavily dependent on the US economically, it's only natural we should agree to allow the Americans to build a SW installation on our territory (Kol Israel DX Corner, 6/1 2254 via Frank F Orcutt, Buffalo NY) Add'l points from a long BBCMS piece: Secret debates on issue held for some time; delegation of senior VOA ofcls had visited Israel. Knesset member Yosi Sarid demanded PM turn down request; told VOI that Spain, Greece and Turkey had rejected similar requests. IDF radio suggested establishment of a committee to study the issue, which in all probability'd mean postponement of entire project for an unlimited period. Original proposal was for stn to serve not only VOA but also V of Zion to the Diaspora. Moscow's RSPGP commented that VOA is in fact a tool in the hands of the CIA. Turkey's Anatolia nx agcy confirmed the US application to set up relay in E Anatolia or Black Sea region, but permission withheld due to relations w/ SU in political and trade fields (WBI 3/1)

1/1 edn of nxpaper Yedi'ot Aharonot reported that rabbis, comms personnel and scientists'd recently been working on establishing a religious radio stn in Israel. Spl assn for the purpose called Shila (Hebrew: Shidurey Yisra'el Lefi Mahalakhah - Israel bcs according to the religious law code). Shila'd be a positive and educ stn devoid of libel and w/no "clowning or cheap humour" and'd carry a lot of Jewish songs about moral values, apertisan, totally independent. It'd teach Jewish law & tradition and bc discussions about science in accordance w/Torah, features about family life, nx. Anything conflicting w/Jewish law wouldn't be bc. Already had studio in Jerusalem; not yet decided if commercial, but leading rabbis'd decide this plus possibility of TV. Shila as yet unlicensed, but assn's chairman maintains that Comms Minister already takes favourable view towards it (WBI 10/1)

ITALY RAI on 7335 ex-7235 1430-1730 in IT TK GK BG-jammed RS FR IT; then Moscow takes over fq; also 7375 ex-7275 Nordic, 2025 AR; errors? (Noel Green RCI 12/1) Hot news: R Time Scandicci will resume pgms from 23/12 on 7105 & 7205; reports to: Stefano Mannelli, R Time, Box 79, 50018 Scandicci (Play-DX 17/12) Hrd from 26/12 on 7105 *0900-1245, sked to 1300 then 7110 1300-0900; new xmtr at Monte Secchia; reports welcomed; sked provisional; 2 IRCs required (Play DX 2/1) more IMI & U.N.

JAPAN NSB still airs trilingual "Asian Express" show as hrd 12 Aug 1633 on usual 3925 6055 9595; basically it's Agnes Chan playing pop mx and trying to say everything in JP, CH & EG. 22/11 tuned into NSB on 6055 at 1733 to hear Mutual Radio Net nx and ad for condo in Honolulu! Apparently relaying KHVH--checked out. When local news sounder came on, two men started discussing what was just airing in JP. KHVH had no idea they were being relayed. I suspect NSB was testing phoneline; later that day they had their annual joint pgm with local KZOO 1210 kHz; per phone call it's every Nov 23 Japan time, lasting until 0900 23/11. They had teletalk w/listeners in Japan, DJ chitchat, pop mx and ads--some recorded in HI for HI products but played at NSB studios! I got hold of an NSB rep at KZOO who said thru an interpreter they discontinued the DX show "BCL World Tam Tam"--the only show worth listening to, in my opinion. P.S.: KHVH 990 intentionally delays Mutual nx; they carry ABC-Info nx live on the hour (Dale Park, Honolulu HI)

KENYA VOK, Nairobi, 4804, 24/12 2211-2232*, Xmas song, anmts in Af EG incl "MC & HNY", Silent Night; not very regular at present; F sig (Bernhard Gruendl, Stuttgart, W Germany, OMDX DX Log) The point is, stayed on beyond sked s/off Xmas eve (gh)

KIRIBATI Latest offl sked of RK: M-F 1830-2000, 0000-0130, 0600-0930; Sat 1830-0130 & 0600-0930; Sun 0000-0130 & 0600-0930. There are school bcs during term at 2130-2400. Reduced hours due to cutback in govt funding; presumably still on 14802 or alt 9825, SSB feeder (WRTH via Dec DSWCI SWN)

KOREA NORTH A xmsn of cryptographs presumably for S Korea hrd best at 1200 around

5867, signs on using Pyongyang's IS, then long mx segment, then several mins of coded msgs in Korean numerals until 1215; ID not known (Philip Harrison, Perth, RA Japanese DX Time 14/10 delayed in mail; see also TAIWAN)Pyongyang HS hrd from f/in 0935 to 1753 on 5699.6, which is 2 x 2850 harmonic (Mark Warner, Melbourne, Vic)

KOREA SOUTH KBS-I, 3930, hrd poorly 1533 12 Aug w/man playing local pop mx, then Olympic report incl volleyball play-by-play. Much NSB 3925 QRM. Echo of Hope noted 1640-1659* 28/8 w/weakening sig on 3985; it had folk mx, then nx incl some Los Angeles items; interlude, then man w/sked, another interlude, then xmtr shutdown; QRM from carrier 3986. Also on 6348 (for benefit of Dave Walcutt, hi), at *0854 4/9 w/ instrumental of "Arirang" as IS, then low tx by M, trad mx, woman w/nx; very incomprehensible since dominant co-channel RTTY kept getting louder. R Korea still running test tape, the same test tape daily in fact, of local pop/rock/folk/opera mx and quadrilingual reqs for reports; taped on 13665 at 0326-0400* 23/11; their tape always ends abruptly. Test has been on since late Sept, always at same time of f/in 0400 [sic]; seems omnidirectional; QRM RTTY 13657.5. As of 1/1/85, still doing same in KR/EG/SP/FR on 13665 at 0212 t/in (Dale Park, Honolulu HI) KUWAIT see SAHRAIN

LAOS Xieng Khouang hrd on 5659.5 at *1055-1209 (Mark Warner, Vic) National R, Pakse now hrd on 6526, ex-6580-90 for nearly three years, but since arnd Nov 83, competing w/Viet stn Lai Chau, often on same or very adjacent channels; this time Pakse shifted to 6526, hrd till 1415* (Isao Ugusa, DX Front Line Japan)

LEBANON King of Hope, 6215.5, made its annual appearance 24/12, from 1430 w/Xmas mx to 1530 f/out. V of Lebanon, 6550, also from 1430 w/pop mx & AR to 1530 E/o; both weak but clear. No trace of a sig on 6305 [V of the Mountain] 24/12 or other days (Ernie Behr, Kenora Ont) R V of Lebanon hrd in EG 21/1/84 on 6550 1953-2115 w/F sig, M ancr, top 40 pop format, Q&A, phone-in, birthday greetings. Weakly audible 5/1/85 in AR until 2020, then EG of top 40/pops; f/out around 2040 (Chris Bagge, Spfld MA) V of Lebanon, the Phalangist stn, aned that from 14/1 it'd be on 6550, 875, 93.2 at 0405-2330 daily; Sats to 0100 Sun. Nx in AR at :15 every hour except 1315 & 1815. 10 mins of FR nx 0800, 1100, 1600; EG 0900, 1200, 1700. VOL has discontinued being regular commentaries, and pgm pwrs are carried irr thruout day (WBI 17/1) MALAYSIA LMI

MALI RDN du Mali, 7285, hrd 25/12 2300 Af mx, FR smnt & NA to 2400*, // 5995 to 2352 VOA s/on; from 0000 7285 had R Ned Madagascar in DT to 0025* (Ernie Behr, Ont) Irr hrd on 4783, E sigs 3/11 0605-0705+, 29/12 from 0554 IS past 0700. Some really nice mx, unusual sounding langs in addn to FR. IS sounded more like a Spanish guitar than a harp, but then I've never hrd a cora before! (Chris Bagge, Spfld MA)

MEXICO La Q de México, 1430 & 2130 3/1, several ments of Mexico City on 9681 (Mike Shockley, Oklahoma City OK, OMCC DX Log) Wow, that one's been inactive a long time; definite ID? (gh) XEUJ-Internacional, 5982, hrd from *1055 w/NA, IDs & Mex mx to 1130 KGEI s/on 18/12; 'Club de Madrugadores' pgm, brief nx reports. TCs & letters, requesting reports (Ernie Behr, Kenora Ont) XEUJ, Linares NL, hrd w/irr sked on 5982; between 2100 & 2250 they have mx pgm w/lots of IDs, "Fiesta en el aire juvenil", requesting reception reports to Apartado Postal 62, 67700 Linares NL; ID as "XEUJ, la internacional, como siempre la número uno en esta ciudad". Also hrd in Mexico City is R Huayacocotla, Veracruz, hrd *1200 and 0105* on 2390, but blackouts are quite frequent; uses 500 W Gates BC-1g xmtr. R Univ Nac Autónoma de México announces 9600 SW but no trace of it despite continuous monitoring; power is 1 kW; AM & SW xmtr site is Ticomán-the SW xmtr recently moved there from the Facultad de Arquitectura de the univ campus here in Mexico City. XERMX, R México Int'l 11 into two new pgms in Jan, one of which is a new DX pgm, 'Contacto DX' replacing "Visión DX desde México" to be weekly on Weds, time unk, for half an hour. Will feature creation of Club DX de RMI and the Club permanente de monitores; spl awards to most active members. DX pgm'11 also outend short history of stn on req; addr Apartado Postal 24-306, 06700 México DF. Beginning Feb, major changes in RMI pgming if they meet the deadline, incl intro of EG nx, later to be supplement by Mex nx in FR, PT, GM; in mid-85 the 100 kW xmtr that has already been around for 5 yrs w/out being used, will eventually be put into operation (Christian Zettl, México, Radio Nuevo Mundo 13/1) Newspaper 'Unomasuno' reported 15/12 that a new 100 kW MW xmtr for XEB R México became opl 13/12; would use it 1300-0100 for central Mex, 0100-1300 to cover 95% of country and parts of southern USA, Cam, Carib (WBI 3/1) That's 1220 kHz; note MW is R México, SW is R Mex Int'l (gh)

MONTSERRAT DW now using separate ID anmts for Antigua & Montserrat; GM 17715 *1200 says Antigua, GM 11705 *0600 says Montserrat (Robert Chester, SA, RA JP DX Time 23/12)

MOROCCO AR stn on 11920 at 2145, reported as 'Jordan' on SWLD 12/1 is axually Tanger, Morocco; a case of list-logging (Ernie Behr, Kenora Ont, 14/1)

MOZAMBIQUE R Moz, noted 1/9 0410-0422 on 4920 w/fair sig, RTTY QRM; presumed SH w/hilife mx & ID (Don Moore, Garnavillo IA) Maputo e Gaza svc reactivated on 4918v;

Quelimane hrd at 2000 on 4888 (Richard Ginbey, RSA, RNMN 10/1) 15295 now hrd 1400-s/off or fade out at 1700, in PT (Noel Green, RCI 12/1) Txn to Doc Wood, hrd R Moz on 9618 from arnd 1752 w/xylophone IS, natl & world nx, then various pgms from propaganda 29/9 to cooking 28/9 in EG but sometimes hrd in PT; jammer on 9620 came up for first time 29/9, ruining reception. Still being hrd late Oct on 9618 arnd 1800, tho sometimes IDing as R Maputo; have pop mx show Mons in EG called 'Fare Play' (Dale Park, Honolulu HI) more, LMI

NAMIBIA 4965 reactivated for vern svc 0530-1000; 7190 1000-1625, 3270 1625-0530; relays of AK/GM/EG svcs unchanged (Richard Ginbey, Bophuthatswana RSA, RNMN 10/1)

NEPAL R Nepal, Kathmandu, again using trop band fq 3230; NP hrd at 1220, G // 5005 which is spoilt by Malaysian stn at Sibu in Iban; 3230 used seasonally, usually starting in Dec (Craig Seager, NSW, RA JP DX Time 13/1)

NEW CALEDONIA Seems to have increased xmtr power since riots, maybe trying to pacify the world's thoughts about French colonial rule; 7170 0458-0510 ID, FR nx, cl mx interludes between jokes (Craig Parsley, Kirkland WA, OMDX DX Log 22/12)

NICARAGUA R Zinica, EG pgm noted daily weekdays 1700-1800, usually religious or political comtry first halfhour; 1730 usually 'Rainbow Melodies' during which I hrd one classic calypso version of 'Jolly Old St Nicholas' along w/birthday greetings for Isla San Andrés; many exhortations for coastal people. Once mentd 'our great communist revolution, no surprise, I guess. IDed as "R Zinica, from Bluefields, in the paradise of the New Nicaragua!" EG also noted arnd 1830 Sat; on 6121 (David Crawford, DXSF 3/1) V of Nicaragua, Managua, ES on 6015 to Lam & Carib: 1100-1400 & 2300-0100 SP, latter repeated at 0200-0400; incl nx 1200, 1300, 1350, 2305, 0000, 0205, 0300. EG at 0100-0200 & 0400-0500, nx 0100, 0140, 0400, 0440 (WBI 3/1) more, LMI

NIGERIA A long BBCMS report quotes NAN about mass layoffs at various FRCN stns, & some concern about violence; incl Abeokuta closed down 8/1 with 90 staff let go; Makurdi 24/10; Kano 9/1, 60 people; Calabar, 100. A VON ES press review 4/1 said 'Punch' had been examining FRCN's recent retrenchment exercise; establishment of most of the stns by the ousted civilian admn had been dictated by political motives rather than natl interests; since economy upicking, some of displaced workers should be recalled. R Nigeria-Lagos reported 14/1 that the R Nigeria Educ Svc had resumed bcng that day; had gone off about 6 months previously due to breakdown of xmtr in Ijeda, Lagos State; could be rxd on MW in Lagos and a few neighbouring states (WBI 17/1) But not 4932? (gh)

NORWAY EG 1600-1630 hrd on 11850 30/12, wise move! (Chris Bagge, MA) Latest WBI sked has that on 11860 + 15165 7210; stn makes frequent changes, but for what it may be worth, here's the rest of sked via WBI concerning Sun + GMT Mon EG: 1000 21730 15235 9590, 1300 21730 21700 9590, 1400 15210 15175 11925, 1700 15220 11865 9565, 1900 11945 9615 9525, 2000 9610 9590 9525, 2200 9520 7210 6015, 0000 9615 9585 7210, 0400 9665 9580 9610, 0500 11910 11865 6020 (WBI 20/12) more LMI

OMAN R Oman, 6085 m^r unID last month, hrd again *1358 in AR to 1600 f/out 9/12 & other days; definite ID & strong sig, no sign of Afgh on this fq (Ernie Behr, Ont, 29/12) From the outbreak of the Gulf War in Sept 1980, the ES of Iran's IRIB in AR have been continually jammed. The source of this jamming is thought to be the BBC relay on Masirah (Sorush, published by IRIB, via SPEEDX, Oct, via ADXR, Nov) Oh yeah?

PAKISTAN R Pak now on 9465 at 1700 w/EG nx, // 12015, ex-9485 since 7/1; sked 1645-1900 in EG & UD (Ernie Behr, Ont, 14/1) Full EG sked in ES: 0230-0245 17660 15175 7315 5905; 0339-0345 17750 15175; 1005-1010 & 1100-1115 17660 15595; 1600-1615 21475 17890 17660 15595 15580 11670 7090; 1645-1745 12015 9485 (WBI 3/1) On 4775v, 1445-1525, PBC Islamabad relaying Peshawar pgm in local lang, Pak songs, talk, 1500 UD nx relay from Is'bad // 5095 & 4790-AKR. Funny enough, it's Is'bad relaying Pesh relaying Is'bad during that period! Resumed Pesh pgm 1515 oflocal songs; ex-4760v; quite strong sigs tho blocked at times by ute, 20/12 (Bernhard Gruendl, Stuttgart, W Germany, OMDX DX Log) PBC, Is'bad 4775, 1308-1600*, drifts 4773.5-3778.0, relays Pesh pgm? Azad Kashmir R, 4790.5, *1403-1804* moves here from 4814.6 at 1400v. PBC Karachi, 4830v, 1405-1843 hrd (*14-19*?), drifts 4830.6 23/12, 4829.2 28 & 29/12, 4830.2 30/12, 4828.3 in Jan. PBC, Quetta, 4879 1212-1500 but once noted at 1657 (Mark Warner, Melbourne Vic) see also AFGHANISTAN; more PAKISTAN, LMI

PARAGUAY Emisoras Paraguay, 6014.5 noted often from 0830 w/Parag mx. 0910 SP nx & ads to 0930 f/out 26/12. Report on SWID 8/12 abt R Nac is wrong; stn is hrd daily on 9734.4, not 9733 (Ernie Behr, Ont) Maybe they misunderstood an annt abt a pgm being M/W/F rather than SW xmsn itself? (gh)

PERU Ondas del Titicaca, 4921.2, hrd 1000-1050 w/huaynos, SP msgs & IDs 7/1. R Cen-

tral. Bellavista, 4923, from 1030 w/talk & huaynos, 1102 ID & LAm mx to 1120, wk mod 11/1. R Madre de Dios, 4950, from *1000 w/NA, Peruvian mx & msgs to 1100, G sig 8/1, GMT -4 TCs. R Eco, Iquitos, still on 5010, hrd 0900-1100 14/1; on 5112 noted a weak spur from R Rebelde 5025; old fq of 5112 on SWLD 12/1 incorrect. R Eco was back on 5010.7 26/12, hrd from 0830 w/Per mx, 0940 mx. R JSV, Huánuco, 6061.1 from 1100 ID, ads, pwp mx. R Colonial, 6137.8 from 1100 ID, nx, Per mx (Ernie Behr, Kenora Ont) R Quillabamba, 5025, now signs on at 1015v, 31/12, opening amt says on until 10 pm (Sakai, Miyashita, Sasaki, Hondo at Miyako DXpedition, Radio Nuevo Mundo) R Imagen, Tarapoto, 5443.9 in late Nov, first noted 26/11; *1040 or *1020v to 1150 f/out. At 1030 has musica tropical, incl Salsa & Chicha; 1100 El Noticiero Once Sesenta for two hours (Inoue, Radio Nuevo Mundo Dec) Per JETRO [?]. Lima, Perú decided to adopt DST of GMT-4 from 16/12 until 28/4/85 (RNH) R San Juan de Chota, Chota, Cajamarca, hrd on 5274.5 16/12 0050-0104*, lengthy ID at closing, taped, then NA (P Cacciamatta & Dario Monferini, Play-DX, Italy) Often hrd subsequent days by other Italian DXers in 2240-0104* period on 5274.4, w/QRM from another stn, R Moderna? (Play-DX) R El Sol de los Andes hrd on 3229.1, 7/12 0955-1005, OA mx, 1002 ID, weak (Brian Alexander, Mechanicsburg PA, OMDX DX Log) R Estrella del Sur, 3219.5, tentative at 1105 22/11, M w/Andean mx, apparent s/on 1100, tent IDs, weak, SIO 151 (Alan Bussie, Orange Park FL, Banzai DX Klube)

PHILIPPINES FEBC EG at 0500-1000 now on 21610 ex-21530, 2 kW xmtr at Bocaue, but poor strength suggests less (Robert Chester, SA, RA JP DX T1me 23/12) Hrd on 15465 instead of 15450 24/10 arnd 0300; error corrected next day (Dale Park, HI)

PORTUGAL 28/12, RDP ancd to PT listeners in Eu & Af a new pgm pattern'd entail changes from 2/1; monitoring since shows PT to Eu & Af Mon-Fri: 06-08 Eu 9740 6100, 1000-1100 Af 21700 17880. 11-12 Eu & Af 21700 17880 15125. 12-13 Eu 15125. 17-18 Eu 9740 7125. 18-19 Eu 9740 11740 7125. 19-20 Eu/Af 15250 11910 11840 11740 9740 7125. 20-21 Eu 15250 11910 11840. Sat & Sun: 08-0815 Eu 118100[sic] 9740. 0815-1055 Eu 15125 11800 9740. 1055-18 Eu/Af 21700 15125 11800 9740. 18-1815 Eu/Af 21700 11910 15125 9740. 1815-20 Eu/Af 21700 15250 15125 11910 11840 9740. This represents an increase from 61 to 69 h per week. However, RDP's Eu svc in GM EG FR IT reduced from daily to Mon-Fri: 2000-2200 on 9740 7125; IT 2130-2230 also hrd on 11740; SP to EU appears dropped; details of RDP svc changes to other areas unk (WBI 17/1). Well, I was at the stn in late Dec, and they told me EG to NAM'd be changed to GMT Tue-Sat 0030-0100 en 9560 6060--replacing a FR xmsn, to the east; and 0300-0330 9575 6075 to the west, replacing 0530-0600 (gh)

PUERTO RICO 4/1, R Havana quoted a PR nxpaper that US'd instal large xmtr complex in PR to bc political propaganda to LAm; USG'd expropriate a tract of land in Cabo Rojo in the western part of the island, where it'd build a powerful antenna which'd op as a bridge for VOA and R Marti; an anti-Cuban stn which was believed to begin bc in the coming months (WBI 10/1)

SA'UDI ARABIA EG & FR svcs from BSKSA obs since 31/12 on 11840 ex-11855 (WBI 3/1) I.e. co-channel Moscow via Havana; BSKSA EG includes 1600-2100 (gh) more IMI

SENEGAL ORTS Dakar has EG pgm called 'English Magazine' 1820-1900 of nx, mx, M-Sat on 4890 (Prodyut Bannerjee, Calcutta, Nov ADXR)

SINGAPORE R Singapore, 5010 from f/in 1027 to 1607* // 5052 during Dec bandscan, but 5010 not hrd since 27/12--must be off air (Mark Warner, Vic, 6/1)

SOUTH AFRICA Contrary to an SWLD report 12/1, R RSA still on 5980 0200-0300, hrd 13/1 0245 w/DX pgm, 14/1 *0200; heavy splatter from VOFC/WYFR on 5985--WYFR tends to splatter 10-15 kHz or more--makes reception difficult; RSA on 9615 best here (John Norfolk OKC OK) Capital R, 3930, 0308-0349 22/12, SIO 333-322. Countdown pgm, TC for 5:08, Winston sports roundup. Said on 26/12 it'd be 5 yrs old; ID 0323 as Capital Radio 604 your favorite 5 year old (Richard A D'Angelo, Wyoming PA) SPAIN, SRI LANKA IMI

SURINAME QSL from R Suriname Intl says plans to begin EG bc in Jan (German & Neth reporters to SCDX bc 15/1) DT still M/W/F 1730-1820 17755 I suppose SWAZILAND IMI

SWEDEN RSI ancd that in view of poor reception in Sas, 1230 EG & 1300 SD'd be on addl fq 15405 for expl period 7-13 Jan but might become permanent (WCI 10/1) Lost track of RSI at 1400 to NAM during 2 weeks in Eu; upon return finally found them on 15280, OK (gh)

SWITZERLAND Advance tent sked for SRI D85, starting 5/5, shows change in xmsn times to Nam: 0145-0330 6135 9725 9885 11915 12035; 0345-0530 6135 15305/15570, 0345-0600 on 9725 12035; the 1315-1515 bc no longer mentioned! Unless an oversight, which seems unlikely, that will mean the end of the EG bc at 1315-1345, which many ENAm listeners find very useful & convenient, often w/better reception than evens, especially winters; currently on 17765. Those wishing its retention should start lobbying now (gh) see UN

SYRIA It's not every month--indeed not every year, that another country begins broadcasting in EG to NAM; but after activation of a 2nd SW xmt, Damascus Radio has done just that! First noted 19/1 1200-1300 on 17510, and ancd as for USA & Canada; reception fair in FL FL, and may be poor further N & W until earlier sunrises; also noted at 2035 in EG on 11685 21/1, tnx tip from Bruce MacGibbon, OR, when Eu is apparent target. This turns out to be confirmed by BBCMS info (gh)

Syrian R DS now hrd daytimes on 17510 & 12085; eves on 7455 & 7430; exact times somewhat erratic; 7430 even hrd sometimes w/ES, e.g. V of Iraq svc 31/12 (WBI 3/1) Syrian Arab Republic Radio ancd 5/1 that from 12/1, Damascus radio'd start being to Eu & NAM on 12085 and 9485: 12-13 EG NAM, 1305-1400 TK, 18-1830 RS, 1835-1935 FR, 1935-2030 EG, 2035-2105 GM all to Eu Same date, 'd begin Lam svc in AR, SP, PT at 2200 on same. Monitoring shows testing several 31mb fqs; 6/1, 7/1, 8/1 hrd on 9485, 9840, 9480 respectively (WBI 10/1) Since 12/1, SARS obs more or less as follows: 12-13 EG NAM 17510. 1330-1430 TK 9480. 18-1830 RS 7455 1835-1905 GM, 1905-2005 FR, 2005-2105 EG 11685, all to Eu. 2200-2300 AR, 23-2340 SP, 2340-2400 PT Lam 9485 7430. Appearance of these xmsns, timing, and even fqs somewhat erratic; during gaps between xmsns, fqs often carry DS pgms in AR. Second xmt sometimes also used w/DS in AR (WBI 17/1) SARBS hrd on new 7430 in AR 2200-2328*, strong 25/12 ex-7425; New ES hrd on 9485, from 1800 RS, 1830 GM, 1900 FR, 2000 EG & pop mx, 2100 AR, only 6/1; 7430 all AR (Ernie Behr, Ont, 14/1) R Damascus, 1/11 2155-2220 on 7285, AR mx. ID, nx & mx again, ex-7365, no sign on 12085 (Matthias Gocklen, W Germany, DSWCI SW News) What, an inband fq? Must've been a mistake! (gh) 9485 1800-1820+ AR // 7455, theme mx, multiling ID in AR FR EG RS, into RS pgm; 2025 recheck, EG in progress, 6/1 (Krueger, Potter, Crawford, DXSP) EG at 2000 on 9480 (Roger Tidy, RNMN 10/1) On 30/12, 7455 // 7430; 17510 at 1030-1600 // 12085; 7455 *1600, then moved to 9485, AR, times vary; FR hrd to 2000, EG 20-21; GM 1835 on 9840 ex 9485 mix Kuwait; 1900 FR; no SW ancd, just 3 MW; 12085 moves to 7430 at 1530. SP hrd once by Tidy at 2330 on 7430; M85 tent sked has 500 kW on 17830 13-14 to NAM/Mex; 11965 12-16 ME, 7245 18-02 Eu/NAF registered (Noel Green, RCI 12/1) Ha, must be following frequent Arab practice of registering inband, operating outband (gh) HS on 7430 ex-7425 ex-7365, *1500-2330*, then 2330-2400 SP (Tidy, Media Monitor via SCDX bc 15/1) more, IM1

TAIWAN The Golden Star BCing Stn is a ute intended for xman of encoded messages, known as cryptographs, to persons on the Chinese mainland. Well hrd now on 8400 w/5 daily pgms of 15 min ea, beginning ea hour on the hour between 1100 & 1515. Begins w/theme mx and many IDs, then repeated readings of small groups of numbers in Chinese. Hrd first some weeks ago by Japanese DXers (Philip Harrison, WA, RA JP DX Time 14/10; see also KOREA NORTH) WYFR relayed by xmters of VOFC, Taipei; excellent reception on 15025 1500-1700 RS, 15035 1300-1600 EG (Robert Chester, SA, RA JP DX Time 23/12) VOFC noted off-fq arnd 15345 at 0305 25/12, resulting in big het w/RAE (Dale Park, HI) Stn on 6087 hrd from 1910 w/light mx & ppsongs to 2030 f/out; fair sig over jammer since 5/12; not sure of lang, maybe CH; Taiwan? (Ernie Behr, Kenora Ont, 29/12)

UGANDA Cf Jan LN-26; I have never hrd R Uganda call itself R Kampala; usual ID is "R Uganda, Kampala" (Richard A D'Angelo, Wyomissing PA, 13/1)

U S S R Kamchatskoe Radio, 4485, 1355-1718 f/out 2/1; G-VG til around 1530, then fades off as sun rises; Mayak thruout; all mx except usual 7-12 min of nx on hour and half hour. There was a sked 1 hour break 1600-1700; carrier stayed on, however. This is std, everyday procedure acc to Japanese monitors in URSC's 'Orbita' bulletin. Mayak pgm sked til 1800, then supposed to carry MIRO-1, w/local stuff interspersed 1830-1900 and 1930-2000. Couldn't hold them long enough to find out. Important comment: Listeners who monitor 4485 and report Ufa as the site are treading on thin ice. Ufa only carries MIRO-4 pgms and ocdl local pgms in Bashkirian lang. If you hear Mayak or MIRO -1 pgms it's Kamchatskoe R (QTH is Petropavlovsk-Kamchatski). P-K also bcs R Tikhy Okean 0815-0900, while Ufa does not. These comments are most pertinent to listeners in WNA; ENAmers may indeed be hearing Ufa. (Bob Palmer, Spokane WA)

Vladivostok Regional, 7200, 1915 3/1: I can't believe I'm hearing this stn so late in the morning, almost noon here! Monitored this off and on today since 1400; vy powerful arnd 1600 tapering off to swallowup in QRN, but still running over S9 at 1915. Orbita shows this as 50 kW; same xmt as Vlad on 11990; and shows Mayak pgm exclusively, sked 0700-1500, 1600-2330. Important comment: Yakutsk is on this fq, but only at 0030-0930, and it does not carry Mayak; it runs Moscow's 2nd pgm (see WRTH) [Mayak is 2nd -gh] Also Sverdlovsk might be hrd 2200-0230; it carries only Moscow's 3rd pgm. All these are here on 7200 during D84, but come M85 and after, who knows? All this tnx to Japanese club URSC, "Orbita". Listeners wanting to track what's going on in USSR are well advised to contact Mr Keisuke Oda, c/o URSC, P O Box 14, Gifu-kita 502, Japan. They publish also an outstandingly complete handbook on USSR DXing. Member-

ship and the handbook are more than worth their meager cost! Best source of info on current skeds sites, powers, langs, et al for USSR xmtrs that I've ever run across. You aren't likely to find a better deal anywhere (Bob Palmer, Spokane WA) So how much?

UNITED ARAB EMIRATES For 0330 EG xmsn, 7275 from UAE Radio, Dubai, was not intelligible, but replacement 7310, noted 11/1, is; glad they took my suggestion; this date it was SIO 222 when solar flux was 70, geomag field active to minor storm level. Under favorable condx, such as 18/1 SF 77, K-2, unsettled, comes in rather well, SIO 333 (Tom McKeon, Indianapolis IN) Moved to 7310 as of 3/1 (UAE R letter to McKeon) And 7310 coming in just fine at 0350 22/1 check (gh)

UNITED NATIONS New UN Radio sked, tho strangely dated only 28/12 until 2/2, for Fri + GMT Sat bcs via VOA: 1830-1845 EG & PT, 1845-1900 AR, 1900-1930 FR, 1930-2000 EG on Gvl 15650=LSB 21710 15120 18782.5=LSB, Tangier 15360; after 1900 also on Phil 15330. 2000-2015 PT Gvl 15120 21710. 2100-2145 EG & 2145-2200 FR Gvl 15120 17730. 0000-0015 PT Gvl 11920 15115 10235=USB 10380=LSB, Monrovia 15235 9715; 0030-0100 SP Bethany 11830 15160 9565. 0200-0300 FR/EG/SH/SM Gvl 10454=LSB, Bethany 10869=USB, Monrovia 11780 6190. 0530-0600 PT & EG Gvl 9540 11740 0630-0715 FR/GK/HB/TK/EG Gvl 9565, 6873=USB 7651=USB, Tangier 17815 15245. 0730-0800 SP Gvl 6873=USB 7651=USB 9620; Tan 15245 17815. 0815-0845 EG & FR Gvl 9680 11740 11825, Monrovia 15235 17860. 0930-1030 JP/CH/EG Delano 9565 8110=LSB, Phil 15250. Via Roma, Italy, Mon 1920-1930 AR 9575 11800 15245; from 4UZ, Switzerland, Tue & Fri 1830-1840 RS on 14500=USB. When UN bcs meetings of Genl Assembly or Security Council, fqs via Greenville are 21670 15120 21625 15410 15150 11900 15415 9620 11905 11740 6055 15155 in EG/FR (UN Radio via gh) Full sked for latter given, but I haven't hrd a meeting bc in ages; are they really doing it any more? And why are they starting a new sked 3 Feb 85? (gh)

U S A Here's a good summary of currently 'active' BCB harmonics, hrd by Dave Beauvais in Amherst MA, via Craig Healy's Top End column of NRC & IRCA, Jan. I recognize several of them as previously reported by others & have hrd others myself (gh)

1800 (from 900) WKXA Brunswick, ME	1860 (from 930) WREB Holyoke, MA
1900 (from 950) WYNY Barbourville, KY	1940 (from 970) WXQK Spring City, TN
2020 (from 1010) WYGC Lewisburg, PA	2260 (from 1130) WCBX Eden, NC
2300 (from 1150) WYNS Lehighton, PA	2380 (from 1190) WKOX Framingham, MA
2480 (from 1240) WCOW Lewiston, ME	2480 (from 1240) WGBB Freeport, NY
2500 (from 1250) CHWO Hamilton, ON	2500 (from 1250) WARE Ware, MA
2520 (from 1260) WPHB Philipsburg, PA	2560 (from 1280) WBRX Berwick, PA
2580 (from 1290) WQIN Lykins, PA	2620 (from 1310) WVIP Mount Kisco, NY
2640 (from 1320) WCVR Randolph, VT	2660 (from 1330) WASA Havre de Grace, MD
2680 (from 1340) WGAW Gardner, MA	2700 (from 900) WOTW Nashua, NH
2760 (from 1380) WNRI Woonsocket, RI	2800 (from 1400) WXAM Charlottesville, VA
2860 (from 1430) WTTT Amherst, MA	2860 (from 1430) WNAV Annapolis, MD
2920 (from 1460) WBUC Buckhannon, WV	2980 (from 1490) WGCN Greenwich, CT
2980 (from 1490) WCDO Sidney, NY	2980 (from 1490) WXIT Charleston, WV
2980 (from 1490) WSTP Salisbury, NC	2980 (from 1490) WLOE Eden, NC (tent.)
3100 (from 1550) WXVA Charles Town, WV	3140 (from 1570) WYTI Rocky Mount, VA
3200 (from 1600) WLNG Sag Harbor, NY	3200 (from 1600) WJSA Jersey Shore, PA
4920 (from 1230) WBME Belfast, ME	

Dave also had unids on 2460, 2540, 2640 2780 and 2900. He also had an odd spur from WVFC-1540 on 1870. Seemed to be FM modulating, he said.

KCBI, Dallas, hrd 26/12 1920-1935 on 11790, test xmsn w/test tones, anmts about 4 or 5 minutes apart: "This is KCBI, Dallas, conducting equipment tests. Reception reports may be sent to KCBI, Dallas TX 75221 USA." Tnx to Terry Palmersheim for this tip! Strong signal; and sent map card QSL in 16 days with serial number 00005 (Tom Gavaras, Minnetonka MN) KCBI tells me pgming may start in Feb or Mar; Sun 1645-1800 11905, daily 1800-2200 11790 Eu, 0000-0400 11870 or 11790 Brazil (gh) High Adventure has changed CP to drop EG to Eu, just to SA; 50 kW KVOH still 5-6 months from going on the air; sked then will be 6005 0600-0800, 17830 1900-2200, 15440 2200-2400 (RNMN 17/1) Wonderful Radio London International--WRLI--is supposed to return to Eu waters in Dec, but pgms already bc over 3 Nam stns: XERF 250 kW 1570 kHz 0000-0015 local Mon-Fri. KXOL Ft Worth 1360 Sat 7-8 am and Sun 6-7 pm [CST] and via KVMX 97 FM [96.9] Thu 7-8 pm in Eastland TX; addr P O Box 255, Venus TX 76084 (Neal West, DSWCI SW News)

WYFR G on 15065, 1945 16/12; just another spur or wrong button? (Chuck Oliver, TX) VOA EG pgms on SSB feeders: Greenville 5745 & 7651 USB Lam 0000-0400; Sat *0030; from Delano to EAs LSB 9350 1100-1500, 11090 1600-1900, 14398 2200-0400. Liberia C&EA 1730-1800 in EG on 10880 USB (Robert Chester, SA, RA JP DX Time 23/12) The Sunday 0230 airing of that DX pgm WORLD OF RADIO on WRNO still subject to possible delay or preemption due to college sports, currently basketball; 13/1 WOR delayed one hour to 0330 (John Norfolk, OK OK) And 20/1 started at 0337, when of course 6185 is fq instead of 7355 at 0230 (gh) Similar delays expected GMT 27/1 & 24/2 (Matt Bell, WRNO)

More KCBI, & KGEI, LMI

VENEZUELA R Ideal, 5060 and R Mundial, 5050, are inactive; R Valles del Tuy, 6130 is active! (Play-DX, 7/1) R Nacional de Venezuela, the int'l svc, now in its 3rd year of existence--founded 29/7/82, has recently put into service two addl two 50 kW xmts, Per Fatoricio Ojeda, head of pgming dept. they should be opl from Dec, but I actually monitored them already on 15400 & 11695 //usual 9540 in 1100-1200 xms; sked is also at 1400-1500, 1800-1900, 0000-0100 and 0300-0400, same pgm repeated in all bcs. Reports welcomed and duly verified by QSL card. pgm sked, sticker pennant and tourist info on Venezuela, to: R Nacional de Venezuela, Canal Onda Corta, Apartado 3979, Caracas 1010. A letterbox pgm is on Suns, 'Club de la Amistad' (Christian Zettl, visiting Caracas, Dec Radio Nuevo Mundo) Nxpaper El Nacional reported 4/1 that mgr of R Nac's Intl SW stn'd ancd it'd xmit on a 3rd fq as of first quarter 1985, close to 15000 [sic] kHz in the 19mb; currently using two fqs, 9540 & 11695; pgming aimed at CAM & Carib, using small 50 kW xmrtr, one hour at 11, 14, 18, 00, 03; pgm staff consists of two ops, four ancrs, 12 producers; future plan to increase to 250 kW, add hours and pgms in EG & PT (WBI 17/1)

VIETNAM VOV EG sked for half hours: 1000 12035 10080, 1100 12035 10080 1010, 1330 15010 11840 10010, 1600 & 1800 & 1900 & 2030 all on 15010 12020 10040; 2330 12035 & 10080; rxd recently but undated and may have changed since (Robert Chester, SA, RA JP DX Time 20/1) Bac Thai regional moved to new 6605 from *1130, ex-6620, -1330*. Hanoi central stn drifting lately: 6450 xmrtr hrd closer to 6455; 7420 moving between 7418 & 7425 (Craig Seager, NSW, RA JP DX Time 13/1) Dec obs show Cao Bang, 6510, extended pgm by 30 mins so *1200-1430*; Lang Song, formerly on 6510, now untraced around there. Binh Tri Thien obs at *1145-1330* on 4671 in VT, but reception sporadic as of late Dec. Lai Chau, very weak on 6588, resumed 1330* after running to 1400 in late Nov. Son La hrd on 4706 & 6332 early Dec, but former back to usual 4771 arnd 7/12. Bac Thai hrd arnd 6607-6618 (Isao Ugusa, DX Front Line 25/12) Nghia Binh at 1151 first noted 6/1 on 5120 ex-5080 (Mark Warner, Vic) Nghia Binh, southern regional hrd drifting from 5090v to 5120, 1300* 7/12 from 1215 (Sarith Weerakoon, Sri Lanka, Jan ADXN) Quite respectable sigs at 1240 17/12 on 5120 (Seager,")

YEMEN NORTHWEST R San'a, news bulletin in EG! on 4853 1945-1956, lots of items abt Islamic countries, ID "This news comes from San'a", andc they'd return at 1930 GMT, and into AR. Next day 21/12, nx at 1931-1941 and ID "This is the Yemen Arab Republic Broadcasting Station in San'a" and "R San'a". 22/12 mx at 1930-1945, but no EG ever hrd since! Must have been some kind of special occasion such as the recently held Islamic Conference? WRTH Newsletter says power reduced to 20 kW, but I can't believe this as they are strong as usual (Bernhard Gruendl, Stuttgart, W Germany, OM-DC DX Log 15/1) R San'a, 4853, G in EG 22/12 1932, clear ID, hrd on 21/12 & 22/12 only (Dick Whittington, Blackburn Vic, DX Australia) Sanaa, 4853, noted w/EG svc 22/12 1945-1955 w/nx & feature; may be a regular segment now, as hrd subsequent days (Bob Padula, ADXN) This was at the time of the Isl Conf in Sanaa (Peter Bunn, ADXN)

YEMEN SOUTHEAST Aden on 6005, from 1630 TS & AR nx, mx to 1730 f/out 24/12 (Behr)

ZAIRE 4750 at 1945 22/12, FR anmts & local mx, believed new xmrtr at Kananga, 100 kW on this spot, formerly Lubambashi fq (Bob Padula, ADXN Jan) Well, Ginbey said (or assumed) it's still Lubambashi, cf Jan LN IMI (gh)

ZAMBIA Lusaka on 4910 *0348-0415, SIO 343 21/12 & 22/12; fish eagle IS, 0351 orch anthem, ID "You are listening to the Home Service of Radio Zambia, Lusaka". Lively mx feature hosted by M in verns (Richard A D'Angelo, Wyomissing PA) R Zambia, 4910, noted 9/1 0422-0431 F-G & slight Brazil QRM from 4915; hilife mx, M w/2 EG IDs & slogan "One Zambia, One Nation" at half hour, into talk in unk lang (Don Moore, IA)

ZIMBABWE Current but undated sked of R Zimbabwe is headed "Shortwave Transmitters: Guinea Fowl!" [is this the name of the xmrtr location, or nickname for the equipment, or what? --gh] Radio 1 on 3396 at 0325-0530 & 1530-2200 (Sun 0400 [meaning all-night one a week, or is that supposed to be a later s/on time Sun????]) & 6020 0530-1530. On Sun Mon Tue Wed Thu, R 1 joins R 3 pgms at 2100-closedown. Radio 2: 3306 0325-0615 & 1545-2200, but from 2020 to closedown carries R 3 pgms; 0615-1545 on 5975. [R3 not otherwise mentd in this sked]. Radio 4: Mon-Fri 0830-1830 on 6045; from 1830 to closedown R 4 carries R 1 pgms [sic, they just said it closes down at 1830!] IS: R1 peal of church bells, R2 local instruments, R3 & R4 instl mx (via Charles Foxx VA)

UNIDENTIFIED 6155, 1/12 2310-0010, AR w/nomad mx, political anmts, often mentd "Shabiyah Arabyah" & "Jihad"=Islamic holy war. Shouting fanatix in background 0000, clear after 0006 SIO 423, 0010 inaudible; may refer to terrorist group in Baalbek, Lebanon, Shiite fundamentalists (Vito Echeverria New York NY) 4615, 15/12 0405-0413* fast orch mx w/birdcalls repeated several times, M ancr very fast in SP? No ID, sudden off, 23332, strange (Gary Hickerson, AR)

LAST-MINUTE INFO AFGHANISTAN New sked for Kabul ES: 0130-0430 Baluchi/Pashto 9755 7235 6085 4450. 07-09 Pashto/Dari V of the Homeland 17720 15435 6085 4450. 09-1030 EG SEAs 17720 15435 6085 4450. 1030-11 Pashai 17720 15435 6085, 1100-1130 Nuristani on same. 1130-1230 Turkmen & 1230-1300 Uzbek on 6230. 1230-1430 Urdu 9755 4450 and from 1330 6085. 1430-1700 Pashto/Dari V of the Homeland 9755 6085 4450. 17-1730 AR to ME 9575. 1630-17 RS 11805 1730-1830 Pashto/Dari Eu 7320 6905, 1830-19 GM & 1900-1930 EG Eu 7320 5905. 1930-20 FR Eu 11830 7200. Xmters in USSR op on 9755 7235 17720 15435 9575 7320 5905. Note that 6085 is replacement for long-standing 6230 (NDXC via Jan ADXN)

ALASKA KNLS planned sked for M85: 07-0930 EG 9540 2700^o, 0930-12 RS 6170 330, 12-15 6170 Chinese 285, 15-1730 RS 7355 00, 1730-20 7355 EG 00 (Masayuki Uchiike, ADXN)

ANGOLA RNA hrd regularly in EG at 2130 on 9535 (Rolf Gunnar, Denver CO, 23/1) Luanda quite strong via long path 0654 11/1 on 11955, Af rhythms, anmts in lcl dialect w/some PT words, to about 0710 dropaway; haven't hrd this for some months (Bob Padula, Jan ADXN) Actually, hadn't hrd this...

ARGENTINA R Rivadavia, Bs As, new PTP relay channel 4588.6, sport & IDs 29/12 & 3/1 & 4/1 2130-0130 (S Muzzi & 'RCE', Play DX) During its 0200 xmsn in EG 13/1, RAE reminded listeners that during Jan & Feb there'd be no xmsn on local Suns (WBI 17/1)

BANGLADESH Dhaka, slow speed dictation nx in EG noted 12/10 1910 on new 6240, ex-5915, G (Mick Ogrizek, ADXN) EG to Eu 1834 G 27/12 on 6240 //7355 (Bob Padula, ibid) Dhaka Zonal HS hrd in BG 0630-1000 on 9617, perhaps one of xmters formerly used for GOS (Sarath Weerakoon, Sri Lanka, undated, via Jan ADXN)

BELGIUM BRT on new 11975 in EG 1935-2000 ex-15590; 17/12, some jamming from 11970 (Bob Padula, ADXN) Interim fq, not in old sked & not in new, cf Jan LN; or kept? (gh)

BRAZIL Rdfif Acreana, Rio Branco, has returned to 4880 from 4885, PT IDs, xmtr powers given at 1000 26/11, strong (Craig Seager, NSW, Jan ADXN)

BURMA Rangoon found on 9730, one night only 18/12 w/local svc in EM w/kidsongs, // 5040 also hrd. Not sked for 9 MHz at night, maybe tech error (Bob Padula, ADXN)

CAMEROON R Garoua hrd not daily in local langs *0800-0830 on 7240 (survey in ADXN)

CHAD Latest sked from Rdfif Natl, N'djaména sent w/QLS: Mon-Fri 0455-0730 4904.5, 1025-1430 7120, 1555-2100 4904.5. Sat 0455-0730 4904.5, 1025-1430 7120, 1555-2200 4904.5. Sun 0455-0700 4904.5, 0700-1300 7120, 1455-2100 4904.5 (John Watson, ADXN)

CHINA R Beijing very good in EG 23/1 1535-1557* on 9730, and mixed w/Cuba on 9550, but only fqs ancd at closing were 11.6 and 6.165 to SAs. also at 1400 as these possible tests to NAM may be (Rolf Gunnar, Denver CO) 9730 audible here (gh, FL FL) Tianjin PBS, 3rd pgm on new 4100 1150-1429, QRMing RTTY co-channel (Isami Hyuga, ADXN)

COLOMBIA CARACOL Pto Carreño hrd on 5940.5 since 11/1. from 1000 w/ads & Ven/Col mx to 1130; 14/1 on 5940.7 (Ernie Behr, Kenora Ont)

COOK ISLANDS ZK4, RCI, 11760, QSL from Nooroa E Tangaroa advises they now run 24h sked except midnight Sat to 6:30 am local time (Robert Shepherd, Jan ADXN)

COSTA RICA VOA & R Costa Rica'll share a new high powered xmtr due on during Jan, initially 50 kW non-dir, but later to be 100 kW north toward Nicaragua. VOA Spanish at 0000-0300 & 1130-1400; on 930 (Bill Whitacre & Bryan Clark, Jan DX Australia) Have been checking for this, but guess what, a Cuban dominates the channel here (gh) R Reloj in San José reported 11/1 that late on the previous Sat night, several unID men attempted to carry out terrorist attack on VOA installation in Ciudad Quezada [sic]. Opened fire on rural guards who arrived after alarm raised by lcl citizens. No casualties and assailants fled toward SJ. Per R Reloj, was first act of sabotage against the stn, primarily sponsored by VOA that'd be called R Costa Rica. Was installed to counter strong Sand prop of powerful Nic stns hrd thruout N CR. RGR offls and stn'd begin opns officially 15/1. There'd been fears that, in view of stn's politix, it'd be attacked by pro-Sandinist elements. Following frustrated terrorist attempt on stn authorities'd posted fully armed security officers (WBI 17/1)

CHILE Per Arg nx agcy Telam, opponents of Pinochet disrupted a R Cooperativa nx bulletin in Stgo 11/1 and bc a subversive msg against the mily regime; hrd for 5 min which was how long it took the stn's tech staff to control situation and cut off electricity at stn on Stgo outskirts. Govt offls said msg bc by outlawed MIR and that R Coop belong persons linked to opposition Christian Democratic Party (WBI 17/1)

DENMARK Copenhagen introed completely new sked 30/11 due to adverse propagation & bad QRM on many D84 channels, viz: 10-1052 Jap/FE 9730, 11-1130 Grnld/Pac 11960 relay HS, 12-1252 Au/SAs 11960, 13-1352 ENAm 15165, 14-1452 SEu/WAF 15165, 15-1552 ME/Eaf on 15185, 16-1652 WNA 11810, 1730-1830 Grnld/Pac 11810 relay HS, 19-1952 Eaf/ME 11810 20-2052 SEu/WAF 11810, 21-2115 Grnld/Pac 11810 relay HS Mon-Fri, 2130-2145 SEu/WAF

11810 relay MS Mon-Fri. 21-2152 Grnd/Pac 11810 Sat/Sun. 22-2252 SAM 9765. 23-2352 SAM/CAM 11715. 00-0052 ENAM 9730 (Finn Stelmach, Jan ADXN) Tent M85 shows 6195 00-01 ENAM, 23-2352 SAM too, w/9730 alternate for both. Also 17770 Au 10-1052, 11960 SAM 22-2252 (Bob Padula, ibid.) All in Danish, exc EG IDs at open and/or close

DOMINICAN REPUBLIC R Earth has new US addr: P O Box 321, Chicago IL 60666 (Pat McDonald, Jan ADXN) R Clarín hrd 12/1 1800 on 11341, clear ID in SP w/sound effect; nothing on 11700; sig vly distorted, some some type of xmtr problem (Mitch Sams OMDG)

ECUADOR LV de Upano extended pgm 15 min to 0115-0118v* 5040 (J Tuchscherer, WI, ")

INDONESIA RRI Palembang and Banda Aceh are both on 2433, with latter to 1800* but Palembang continuing past 1845; some RRI's now 24h; 7/12 (Sarath Weerakoon, Sri Lanka Jan ADXN) RRI Sorong active again on 9748 and hrd w/IN talks 0348 13/12; beware Pa-péete using this same fq (Craig Seager, NSW, ADXN) Actually, odds are strongly against both using 9748.00 since both are presumably drift-offs; despite their expertise in other aspects of DXing, the significance & value of measuring fqs to split kHz has not yet penetrated Oz where everything is published rounded off to nearest kHz (gh) RRI Jakarta noted on new 11815 w/Natl pgm in IN, Jak nx 07-0710; not audible on either 11700 or 11770 at the time, so may be change from either; 11815 to 0800* 11/1, a rare fq change for this stn (Bob Padula, ADXN) Appears ex-11700, noted at times when that fq was sked, G 12/1 (Craig Seager, NSW, ibid.)

ITALY [Cf main section] RAI using OOB 7390 to Eu incl EG 1935-1955, G but QRM Moscow; // regular 7290 but sked 9575 not hrd; might be xmtr fault, or planned OOB test; Tent hrd here 1/1 (Bob Padula, ADXN)

MALAYSIA When we were doing the Asian Daytime Survey, it was obvious that not too much reliable info exists for several As stns, at least their daytime xmsns. Fq usage for R Malaysia has been varied in past year for Kuala Lumpur & Penang. KL now uses 4845 for Indian svc 50 kW, 5965 Malay 100, 6025 Chinese 100, 7295 EG 100, 9515 Malay 100. Penang used 4985 EG 10, 7200 ML 10, 9710 ML 10. Previously 7295 was 10 kW and at Penang. Penang now uses 4985 EG w/10 kW, incorrectly shown in some texts as 4885. This sort of fq shuffle is not new for RM - back in 1971 there were similar movements, w/9710 & 9515 outlets swapping sites. All KL xmtrs are sited at Kajang incl ES facilities of 4 xmtrs on 6100 9750 11900 15295. These are used solely for ES and I have never monitored them w/HS. By the way, 9665 also from KL, 100 kW; used to be on 9660 w/50 kW, increased in 1983/84 (Bob Padula, ADXN Jan)

MOZAMBIQUE R Mozambique, Beira hrd on 9642 at 0425 30/12, SH talks, some PT msgs from the regional stn; quite G at times, thru at least 0500, in Af day-mode (Padula, ADXN) Maputo hrd again on 11818 w/PT anmts // 9618 0400 15/12 pops & many short msgs (Mark Warner, ADXN) Also at rather latetime of 0657-0705 w/PT nx roundup by man 11/1

NICARAGUA V of Nicaragua missing from 0400 EG bc for 2 weeks as of (Padula ibid) 23/1; what's happened? (Rolf Gunnar, Denver CO) 6015

NORWAY [cf main section] RNI made some fq changes 1/12; from Kvitsøy xmtr: 1000 FE/NZ 15180 ex-15175. 1400 SAs/Au 15215 ex-15210. Frederikstad: 1300 15310 ex-21700. 1700 11870 ex-11865; may've been other changes since, but not yet (Robert Chester, RA 20/1)

PAKISTAN RP's xmtrs often unstable and vary fq by several kHz; slow nx in EG noted at 0230 on 17663 and 15173, instead of sked 17660 & 15175 (Robert Chester, RA 20/1)

QATAR Doha on 9905 1900-2100 after excursion to 7320 in Nov/Dec; QRMing Russian SSB feeder on 9905 11/1 (Bob Padula, Jan ADXN)

SA'UDI ARABIA "The EG pgm from R Riyadh" via Jeddah xmtr noted on 11840 ex-usual 11855, strong 1910-2100* 14/12, subsequently alternating the fqs (Bob Padula, ADXN) On 11855 16/1, but not since (Rolf Gunnar, Denver CO, 23/1)

SPAIN SFR in EG 2200 24/12 to Eu on 5900 ex-5960, further out of band (Padula, ADXN)

SRI LANKA DW Trincomalee, 6185 in EG to 2150*, QRM from BBCWS 6180 4/12; not strong (Bob Padula, ADXN) Gave site ID at 2059 6/12, F-P (Patrick McDonald, NSW, ADXN Jan) Among many other ADXN reports of this on many fqs (gh) "DW Sri Lanka relay" ID in EG then pgm in GM 0116 29/12 on 5280; a link? VG (S Nuzzi, Italy, Play-DX) Suppose, actually from Germany? Was it SSB? (gh)

SWAZILAND Swazi R reduced sked to: Mon-Fri 0515-1555, Sat 04-17, Sun 05-18 all on 6155 & 9705 (Richard Ginbey, RNMN via Mick Ogrizek & Ian Eadie, Jan ADXN)

SYRIA Damascus noted w/SP 1045-1100 on 12085 relayed from HS 19/12; has segments in various non-AR langs (Bob Padula, ADXN) Tent M85 registrations: 7245 500 kW 18-02 Eu/NAf, 11965 500 12-16 ME, 17840 500 13-14 NAm, 25630 250 13-14 SA--yes, plans to use 11 mb! (ITU & Bob Padula, ADXN) I think he means S America by 'SA'--ambiguous as could also be S Asia, S Australia, S Africa...(gh)

U S A KCBI, tentative M85 registrations with ITU: 11935 17-18 SA, 11790 17-22 SA, 11915 18-19 UK, 11710 00-01 SA, 11870 01-03 SA, all 50 kW. KGEI M85: 6120 0830-1245 USSR/As, 5980 1245-1430 USSR both 250 kW. 50 kW: 15280 2130-0330, 9615 0330-1430, 15355 1430-1600 Ams (via Bob Padula, Jan ADXN)

CLANDESTINE CRANNY

Radio Martí, supposed to start 28/1/84, various dates after that, and 28/1/85, Martí's birthday, again delayed due to staffing problems, especially loss of director Paul Drew, non-Cuban and non-Spanish-speaking, who unexpectedly resigned around 10/1 for personal reasons. As of 23/1, Sen Hawkins' office could not give me any new target date for the station-- which will operate 14½ hours a day via Marathon 1180 (gh)

LV del CID being obs on 6300 at 0300-0700+; local press reports say CID head Huber Matos is currently in Nic mtns to find out more about the anti-Sandinista movement FDN. He was even hrd speaking over R 15 de Sept. This is the first obvious and publicized indication of the close coop betw CID and other CAM counter-rev forces in the being field (Christian Zettl, México, Dec Radio Nuevo Mundo) 30/11, on 28th anniv of Alzamiento Revolucionario de Santiago de Cuba, R Camilo Cienfuegos of the CID net changed fq from 10040 to 9940 (v 9939.5-9940.5) for daylight xmsns; they explained the move with the fact that for Cuban listeners w/"Sidonet" radio sets it'd become easier to tune them in. New fq obviously // 11680 1345-0045; 0100-1330 6300. The iv w/Matos prepared by R 15 during his visit has also been bc via RCC 28/11; another indication of close coop? (Zettl, México, Jan RNM) CID now on 7400, *0300, first hrd 28/12, // 6300 but weaker than 6300, generally arnd S-7 on R600 meter (John Knapp, Uniontown PA) CID's sked for past couple of months remarkably stable considering their tendency to switch fqs; but as I write 14/1 0400 they are deviating somewhat: 7400 w/usual R Camilo Cienfuegos IS & ID, mostly EG rock, M SP anc; fq usually has some carrier distortion; usual 6299.5 silent but 9939.8 still on instead, but not // 7400 as has been practice of late; 9939.7 also had EG rock but different SP anc. Remains to be seen if permanent change; my guess is no--they occasionally show these odd patterns. 9939.7 also IDs as Cienfuegos (George Zeller, Ashland OH)

La Voz de Alpha 66 hrd again 8/1 0102-0129* w/FMing carrier and badly drifting fq, starting on 7545 but up to 7553.5 by QRT. Pgmng anti-Cuban w/M&W anc; 2-min segment on Angola incl. While unlookedfor daily, both times hrd were GMT Tue, and this may not be entirely coincidental; may well be in Miami area again--Florida DXers might get signal measurement; here it's SIO 232 (George Zeller, Ashland OH) Reactivated on 7545v, *0200-0229* tnx Zeller tip in ACE; back on despite several FCC closures in past; s/on 8/1 w/usual 10-note IS, theme song, ID "para el pueblo de Cuba que sufre, aquí está LV de Alpha 66". "Buenas noches, hermanos cubanos, les habla Alberto González". Then woman, "Cuba para los cubanos, arriba cubanos, sabotaje y atentado es la consigna". Ancd sked as M/W/F 9 pm; drifted up to 7553 by s/off, warbling carrier & poorer sig than in past. Perhaps no longer from Miami! Comentario Editorial by Dr Diego Medina, then theme mx and closing; 12/1 had 'un mensaje al pueblo de Cuba' by Andrés Nazario Sargén, Secretario-General. Great to have them back! A good verifier: P O Box 420067, Miami FL 33142 (Steve Reinstejn, FL, DXSF)

R Venceremos Even after reported destruxion of a relay xmtr, RV still on air with complete sked, now even using alt fq in all bcs; daily Mon-Sat 1215 1830 0000 0230; Sun 1400 2000 0230. Usually used at 1215 1830 1400 are 6560 +5 and 6850; for the 0000 & 0230 on 6560, and now also for prop reasons 3560. 0230 xmsn relayed on 98.5 FM for San Salvador and E provinces--for the latter also at 0000. Addr is Apartado 7-907, México DF; no trace as yet of R Farabundo Martí (Christian Zettl, México, Dec RNM) RV, controlled by FMLN, anc'd 10/1 it'd start being over a 'Venceremos nat'l FM system'. FM sig'd be expanded to incl 'the 4 war fronts' and cover the Salv dept'l caps of San Miguel, Usulután, San Francisco Gotera, Sensuntepeque, Zacatecoluca, Cojutepeque, San Vicente, Santa Ana, Sonsonate, Ahuachapán and San Salvador (WBI 17/1)

R Quince de Septiembre Now hrd on 6215, per annt since 1/12 changed sked to 0600, 0700, 1200, 1615, 1630, 1900 Nic local time (Inoue, RNM) See also CID above & below

LV de Sandino, reactivated on 5760, 7/1 2304-2330*, F amid ute QRM; rapid-fire annt s w/staccato bursts of automatic weapons fire; ID as "Somos LV de Sandino, Alianza Revolucionaria Democrática ARDE". Frequent use of slogan "Patria libre o matar" [free homeland or kill], probably borrowed from the famous FMLN slogan "Patria libre o morir" [free homeland or death]. Same time found R 15 on 5555.3, 5580, jammed 6215

R Truth Tim Hendel, now working in S Africa, sent me a (Steve Reinstejn, FL, DXSF) tape of the anti-Zimbabwean stn; after listening to it, it's easy to see why it's a S African opn; gives addr of: c/o Mr J Brown, P O Box 4, Stockbridge, Hemp. S020-6LB, England (Vito Echevarría, New York NY) See also V of Truth, next

V of Truth R Nacional de Angola reported 26/12 that this stn from S Africa 'd been constantly being coded msgs containing instructions for sabotage by criminal groups inside Angola. Same allegation made day before by ANGOP in announcing establishment of another anti-Angolan stn on SAF terr. Quoting TASS, ANGOP pointed out that the bcs of this new radio, located in Transvaal, centred on Angolan-Cuban coop and xmted reactionary viewpoints anti-Cuban & anti-Angolan; in SP addr'd to Cuban Internationalists working in the PRA. Per SAF newspaper Sunday Times, SAF govt spent more than 16 megarand a year for psywar thru radio pgms to indep countries in southern Af. Ed note: such a stn known to have opd since at least Aug 78 (WBI 3/1) V of Truth continues hrd almost daily at 2000 on 4950 in PT hostile to Angola govt; & to Cuban involvement; and as prepared by Angolans for Angolans, to 2045* apt; 7/1 VOT also hrd at 0324-0350 on 5015; same fq carried anti-Zimb govt R Truth svc in EG at 0435-0455 (WBI 10/1) Vox da Verdade, hostile to MPLA govt in Luanda and to Cuban involvement in Angola, 0330-0415 5015 & 2000-2045 4950 in PT (WBI 17/1)

V of the Resistance of the Black Cockerel, a pro-UNITA stn, continues 0430-0630 & 1730-1930 on 4950, same fq as used by V of Truth (WBI 17/1)

Radio SPLA 29/12 the xmtr carrying this anti-Sudanese govt stn on 9610, stayed on air after pgms ended at 1400, and carried V of Rev'y Ethiopia AR svc from Addis Ababa, which stayed on 9610 til apx 1415; VORE AR svc then found on regular fq 9560 at 1420; this is further evidence that R SPLA originates from an Eth xmtr (WBI 3/1)

Radio Free Maccabee Tower to Paula Hawkins Dept: Last week, Sen Hawkins introed legislation to create this, which'd be pgms in RS & HB to Soviet Jews. Sounds like a worthy idea. However, in arguing for it, our senator said that the 6 megaJews killed by the Nazis "are in heaven" and the 2.5 megaJews living in the Soviet Union are "in hell". Somehow this simple parallelism seems perpendicular to good taste (Rob Morse, Orlando Sentinel 6/1, via Nick Pappas)

V of Liberation of Iran, 9855, not hrd since 2/12, but R Pak was there 11/12 at 1700 in EG, now back on 9485; R Bangladesh was also on 9855 at 1700 in Oct, not hrd since (Ernie Behr, Ont, 29/12)

R Nejat Iran, hrd on 9027 at 1755 in Persian, 1800 ID, mx and talks on Hosni Mubarak. Danish addr given for correspondence at 1824, then "Liberation of Iran" hrd in EG w/ anthem at 1826* 4/12. At *1830 4/12, R Iran hrd w/Persian mx, ID by M, 1834 emotionally stirred anmts, 1836 sudden s/off; SIO 443 on both (Vito Echevarria, NY NY)

Seda-ve Iran, 6/12 1750-1800+ on 15050, political rhetoric by M, SIO 434. Certainly same stn 20/12 1756-1810 on 15060 (Vito Echevarria, NY NY)

R Vatan When Shah fled to Egypt, Sadat gave him his own stn, which still bcs. Based in Cairo, financed by Ashraf, the Shah's sister (Sorush, published by IRIB, via Oct SPEEDX, via IDXCI ADXR Nov)

Iranian Communist Party [sic] on 4467 at 1745, typical cland pgm, martial mx, and Persian anmts 7/12 (Sarath Weerakoon, Sri Lanka, Jan ADXN)

V of Tamil Eelam in Tamil, EG, Sinhala, on Sat & Sun only, 0130-0330 & 1030-1200 on 6500 7080 7120 7500 (R Chinnaraj, Nov IDXCI ADXR)

NORTH AMERICAN PIRATES KROK, 7400, 1/1 +2238-2308*, "The Fox" played 50s & 60s rock, called stn Rock of the Oldies; said on 41 & 13m, but nothing hrd on 13; claimed this was test & 'd soon be regular; Addr Box 245, Moorhead MN 58560 (Bill Dvorak, Madison WI) 1/1 2248 oldies rock on 7402, nothing hrd on ancd 13m, 2308* (John Knapp, Uniontown PA) 12/1 2158-2220 on 7400, rock mx of 70s, Moorhead addr, SSB QRM (John Norfolk, OK OK)

Global American Network, rarely hrd, 25/12 0623-0658* 7426.5; may well be slickest NAm pirate, extremely pro material up to net stds; mx by rock bands, ivs, lengthy feature on Laser 558 w/off-air material, ivs w/stn personnel; last reported spring 1984 (George Zeller, Ashland OH) Their 'EG svc' hrd 25/12 0629 on 7428, rock, Laser profile, 0658* (John Knapp, PA) Global Radio Network, 25/12 0640-0654* on 7425, AM w/low mod, immediately followed by R Soundwave on same fq, same xmtr? (C Kristan PA)

R Soundwave hrd after above 25/12 on SSB 7424, 0704 Verbal Assault pgm w/anrc Rocco Juliano, in comedy attempt reading story using incorrect EG purposely to 0710* inviting tunein next week--1/1, addr of P O Box 393, E Moline IL 61244 (Chuck Kristan, Delmont PA) 13/1 0004-0035 on 7425 USB, G sig, top 40, Verbal Assault (Chris Bagge, Spfld MA) 24/12 0210 on 7425 started on AM w/G sig, but changed to USB and until 0230 was all downhill (Chuck Oliver, Spring TX)

WKIU, strong but overmod 13/1 2004-2043 arnd 6810, top 40/C&W, Texas comedian, DJ w/southern accent, ID as "WKIU-SW, the SW superstation, member of the RKK radio news network." Johnson xmtr, "related to the R King Kong earlier in the net". Said 'd be on again next week, this fq (Christopher P Bagge, Jr, Springfield MA)

<p>RADIO BUCHAREST ROMANIA QSL</p> <p>This confirms your report of 1.06.84 concerning our transmission of 02.00 GMT on 4755 kHz.</p> <p>Your remarks are of great interest to us and your further reports will be much appreciated.</p> <p><small>Prima Sangea (Emission gratis) de Marne-roua, Nordului Transilvaniei, (1400 wpm) and the number (1400000)</small></p>	<p>Mr. Wendel Craighead Presidio Village, Kansas, USA</p>
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CHINA, PEOPLES REP: Zhejiang PBS
* 6620 Hangzhou via Peking f/d cd. in 24 ds. for 3 IRCs. (Davis-CO).
* Xinjiang PBS 5800 Urumqi via Peking f/d cd. w/ pennant in 48 ds. for 2 IRCs. (Davis). 4500 f/d cd. in 20 ds. (Sgrulletta-NY).
* Hunan PBS 4990 Changsha via Peking in 21 ds. w/ pins for 3 IRCs. (Davis-CO).

CLANDESTINE: Radio Camilo Cienfuegos cd. in 23 ds. for a SP rpt. and 2 IRC.

* QRS 11680 and 6300 f/d "CID Logo" cd. in 23 ds. for a SP rpt. and 2 IRC. Addr: Ap. 8130, San Jose, 1000, C.R. (Plum-NJ).
COSTA RICA: Radio Relei 6006 f/d "Globe/Clock" cd. in 23 ds. for a SP rpt. and 2 IRCs. (Cassidy-IN). Radio Columbia 4850 cd. in 32 ds. for a SP rpt. and ms. (Mann-IA).

CUBA: Radio Habana 11760 f/d cd. in 4 1/2 mo. (Henschen-IN). 11930 f/d cd. in 135 ds. v/s Maria Montero Triana. (Hastie-TX).

DOMINICAN REP: Radio Clarin 11700 actually a AWH-Asia QSL for a Radio Earth relay in 26 ds. for ms. (Speer-CA). same in 2 wks. for 2 IRCs. v/s Adrian Peterson. (Palmerheim-KN).

ECUADOR: HGJB 17790 f/d cd. in 32 ds. for 2 IRCs. (Richards-CT). 21477.5 f/d cd. w/ pennant in 30 ds. for 2 IRCs. (Sobkoviak-IL). Radio Catolica Nacional 5055 p/d ltr. w/ pennant via registered mail in 3 wks. for a SP rpt. and ms. v/s Pablo Vallero Klein, Director. (Yamron-PA).

n/d ltr. w/ pennant in 25 ds. for a SP rpt. and ms. (Mann-IA). Radio Quito 4920 n/d folder w/ pennant in 28 ds. for a SP rpt. and ms. v/s Alfonso Laso (Dillon-DC).

EQUATORIAL GUINEA: Radio Nacional
* de Guinea Ecuatorial-Bata 15100

p/d ltr. w/ coverage map from Gene Grassie producer of the

<p>26. 6. 84</p> <p>We acknowledge with thanks receipt of your QSL of 11. 6. 84 on 4755 kHz retransmission on 02.00 at 02.29 UTC</p> <p>We hope that you will continue to receive and enjoy our program.</p> <p>Berliner Rundfunk</p> <p>Broadcasting Service of the German Democratic Republic</p> <p><small>Postfach 10000, Berlin-Charlottenburg, DDR 10000</small></p>	<p>RECEIVED BY MAIL</p> <p>Mr. Wendel Craighead 2110 West 74th Terrace Prairie Village, Kansas 66208 U. S. A.</p>
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Radio Africa program. Addr: P.O. Box 146, Dexter, NM. 88230 (HardestercO). 4926 f/d cd. in 52 ds. for a SP rpt. and 2 IRCs. (Gunter-NC).

EUROPEAN RUSSIA: Radio Moscow 6175 via Moscow f/d cd. in 1 1/2 mo.

FALKLAND ISLANDS: FIBS 2380 p/d cd. in 102 ds. (Palmerheim).
* for a taped rpt. and 2 IRCs. (Talbot-ALB).

GERMANY, FEDERAL REP. OF: Sudwestfunk 7265 p/d "Globe" cd. in 23 ds. for 1 IRC. (Paszkiwicz-WI).

GUAM: KTWR 9510 f/d cd. in 13 ds. for 3 IRCs. v/s Donna Lowell (Green-TN).

GUATEMALA: Radio Cultura 3300 p/d cd. in 27 ds. for 3 IRCs. (Hastie-TX). TGMVE 6090 f/d "Logo" cd. in 34 ds. for a SP rpt. and 2 IRCs. v/s Sr. Barry Barillas. (Mann-IA). Radio Mam 4825 p/d ltr. in 34 ds. for a SP

rpt. and ms. v/s Herminio Perez Lopez, Director. (Wilkins) via Craighead

HAITI: Radio 4VEH 4930 f/d cd. in 33 ds. for 3 IRCs. (Green).
HAWAII: WWVH 5000 f/d cd. in 29 ds. (Plum-NJ). (Kacir-MI)

HUNGARY: Radio Budapest 9835 via Jaszbereny f/d cd. in 24 ds.

IRAQ: Radio Baghdad 9610 f/d cd. in 204 ds. for 1 IRC. (Talbot).

ITALY: RAI 9575 f/d cd. in 241 ds. for 2 IRCs. (Lawrence-CO). f/d "Filippo de Pisis" cd. in 189 ds. (Dillon-DC).

JAPAN: Radio Japan 17755 cd. in 21 ds. (Speer).
JAVA: Voice of Indonesia 11790 p/d "Tana

Toraja" cd. in 15 mo. for 1 IRC. (Talbot)

LEBANON: King of Hope 6215 f/d cd. in 5 mo. for ms. (Paszkiwicz-WI).

LIBERIA: ELWA 11830 f/d cd. in 32 ds. for 3 IRCs. (Sobkoviak-IL). 4760 f/d cd. in 29 ds. (Hastie-TX).

VOA 6045 f/d cd. in 57 ds. (Lawrence).

VERACRUZ
1965

via Craighead

35th Anniversary



LITHUANIAN SSR: Radio Vilnius 11720
f/d cd. in 77 ds. (Richards-CT).

LUXEMBOURG: Radio Luxembourg 6090 f/d
cd. in 105 ds. (Levison-PA).

MALAGASY REPUBLIC: Radio Nederland 11740
f/d "Flevo Antenna" cd. in 41 ds. (Lawrence-CO).

MALI: Radiodiffusion Nationale du Mali
7110 p/d "Map" cd. in 256 ds. for a FR rpt. and ms. (Davis-CO). 5995 f/d cd. in 21 ds. for a FR rpt. and ms. (Tutak-NJ). 4783 same in 64 ds. for a FR rpt. and 2 IRCs. (Gunter-NC). p/d cd. in 97 ds. for a FR rpt. and 2 IRCs (Paszkiwicz-WI).

MEXICO: Radio Mexico XERMX 9705 n/d cd.
in 48 ds. for a SP rpt. and ms. v/s Beatriz Villa Garcia, Gerente. (Forsgren-WI). same in 47 ds. for a SP rpt. and 2 IRCs. (Cassidy-IN). **Sistema Radio Yucatan XEQM 6105** personal ltr. in 14 mo. for a SP rpt. and ms. (Peniston-NJ) * **XEQQ 6045** personal ltr. in 1 mo. for a SP rpt. and ms. (Peniston-NJ). **XEUS 6115** n/d cd. in 6 mo. for a SP rpt. and ms. (Peniston-NJ).

MOZAMBIQUE: Radio Mozambique 15295 f/d
cd. in 2 mo. for an EG rpt. (Peniston). 9618 p/d "Globe" cd. in 3 mo. for a PT rpt. and 2 IRCs. (Paszkiwicz-WI).

RESTORING NEW TESTAMENT CHRISTIANITY
ENCOURAGING MEN TO OBEY GOD'S PATTERNS

November 28, 1988

John Scavella
World House #1, Box 178
Munster, N.Y. 13844

Dear John,

Thank you for taking time to write me regarding my program on the Beta station. I have received several reception reports from users on the eastern coast telling me they hear my program. For some time I have wondered if they were getting my tones at all.

I confirm that my programs are aired each Monday thru Friday over Radio Africa in Beta, (located in Gaborone). They are using a frequency of 15.110 MHz for those areas and my programs are supposed to be aired at 20:00 hours. We have been using the Beta station for about a year and have mixed feelings about how productive it is since we have received very little response from "non-Beta" stations.

The report (including tape) was very helpful to me. Thank you. Feel free to write again should you find more information about the station. I have written station management with my response.

Sincerely,
[Signature]

Is that on the World's Radio? I don't know. They don't know. I don't know. I don't know. I don't know.

Gene Erickson • Box 146 • Dexter, MI 48820 • (501) 734-5565

MOZAMBIQUE: Radio Mozambique 15295 f/d
cd. in 2 mo. for an EG rpt. (Peniston). 9618 p/d "Globe" cd. in 3 mo. for a PT rpt. and 2 IRCs. (Paszkiwicz-WI).

NAMIBIA: Radio SWA 3295 f/d "Nature Park" cd. in 28 ds. for 2 IRCs. (Lawrence-CO).

NEWFOUNDLAND: CKZN 6160 f/d "Map" folder cd. w/
stickers in 29 ds. for 1 IRC. v/s D. Uttaro. (Lawrence-CO).

NICARAGUA: Radio Zinica
6120 n/d ltr. in 11* mo. for a SP rpt. v/s Arturo Valdez. (Huniwall-WJ).

NIGERIA: Voice of Nigeria
15120 f/d "Airport" cd. in 300 ds. (Gurley-TX).

NORWAY: Radio Norway 15220
f/d "Costume" cd. in 34 ds. w/ sticker for 1 IRC. (Richards-CT).


PARAGUAY: Radio Nacional 9735
p/d form ltr. in 49 ds. for a SP rpt. and 2 IRCs. v/s Carlos Montaner. (Cassidy-IN). same in 39 ds. for a SP rpt. (Levison-PA).

PERU: Radi San Martin 4810 f/d
prepared cd. in 28 ds. for a SP rpt. Pennant rcvd. v/s Nori de Meneses, Secretaria. (Plum-NJ). **Radio Ancash 4990 f/d** prepared cd. w/ personal ltr. in 38 ds. for a SP rpt. and ms. v/s Armando Moreno Romero, Director Gerente. (Wilkins-CO).

PHILIPPINES: Radio Veritas Asia 9670 f/d
"Cross and Arms" cd. in 25 ds. for 3 IRCs. v/s Ms. Cleofe R. Labindao, Audience Relations Officer. (Davis-CO). same in 28 ds. for 2 IRCs. (Wilkins-CO).

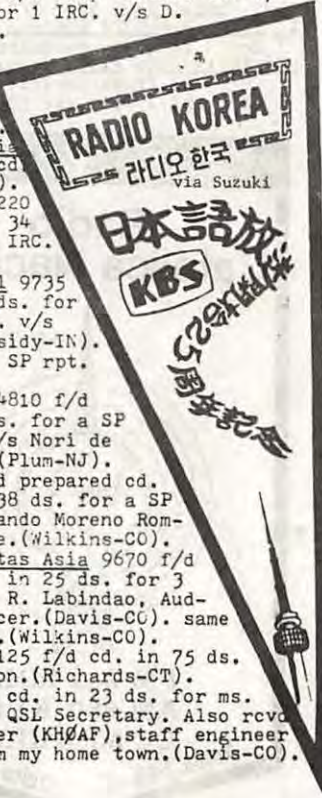
POLAND: Radio Polonia 7125 f/d cd. in 75 ds. w/ DX Club application. (Richards-CT).

SAIPAN: KFBS 15225 f/d cd. in 23 ds. for ms. v/s Mrs. Rose Bower, QSL Secretary. Also rcvd ltr. from Bob Springer (KH0AF), staff engineer at KFBS, who was from my home town. (Davis-CO).



RADIO PRAHA
1985

1	2	3
4	5	6
7	8	9
10	11	12



RADIO KOREA
라디오한국
via Suzuki

日本語放送
KBS
525周波数

SENEGAL: Radio Senegal

4890 f/d "Logo" cd. in 47 ds. for an EG rpt. and 2 IRCs. (Lawrence)

SOUTH AFRICA: Radio RSA

9615 f/d "Sunset" cd. in 22 ds. v/s Colin Miller. (Paszkievicz). f/d "Wildflowers" cd. in 19 ds. (Blanchette)

SWAZILAND: Trans World

Radio 4760 f/d folder cd. in 28 ds. for 1 IRC and ms. v/s L.A. Burnett. (Forsgren-WI). 5055 same in 128 ds. w/ sticker for 2 IRCs. (Talbot-ALB). 9640 cd. in 33 ds. (Sobkoviak).

TAHITI: Radio Tahiti 15170

f/d "Conch Shell" cd. in 8 mo. plus a f/up rpt. in FR for ms. (Eckert). f/d "Logo" cd. in 101 ds. for an EG/FR rpt. and 2 IRCs. (Lawrence-CO).

TAIWAN: Voice of Free China 15345

f/d "Animal" cd. w/ pin and pennant in 40 ds. for 1 IRC. (Green-TN).

TANZANIA: Radio Tanzania 5050

p/d "Map/Logo" cd. in 26 ds. for an EG rpt. and 2 IRCs. v/s X. Mwangole. (Forsgren-WI).

TOGO: Radio Togo 5047

f/d cd. in 3 wks. (Peniston-NJ).

TUNISIA: Radio TV Tunisia 7225

via Sfax p/d ltr. in 29 ds. for a FR rpt. * and 3 IRCs. on my third try. v/s S. Ennaifer. (Paszkievicz-WI).

UKRAINIAN SSR: Radio Moscow 7320

via Starobelsk f/d "Lenin Library" cd. in 45 ds. (Paszkievicz-WI). same w/ "Sovietskaya Square" cd. in 43 ds. (Plum-NJ). 7165 via Kiev cd. in 1 mo. (Palmerheim-MN). 7335 via Lvov

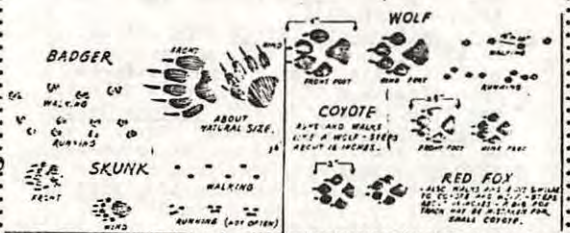
RADIO WOODLAND INTERNATIONAL

QSL #2

This confirms that Bill Weinstein heard our program on 7355 kHz at 0312-0319 UTC (GMT) on Oct 28 1987.

73's and P P P R

Jack in the Green
Jack-in-the-Green



**Radio
Católica Nacional**

via Wilkins

FM 94.1 MHz
AM 880 KHz
OC 5055 KHz

Aptdo. 540-A Quito-Ecuador

URUGUAY: Radio El Espectador 11835 p/d cd. w/ personal ltr. in 106 ds. for a SP rpt. and 3 IRCs. v/s Jorge Cubilo. (Woloch-QUE). same in 22 ds. for a SP rpt. and 2 IRCs. Sticker rcvd. (Forsgren-WI).

USA: WRNO 7335 cd. in 17 ds. (Stuart).

USA (Pirate): KPAT 7427 f/d ltr. in * 24 ds. 150 watts. (Plum-NJ).

VENEZUELA: Radio Juventud 4900 f/d cd. in 45 ds. (Forsgren-WI).

VIETNAM: Voice of Vietnam 15010 f/d cd. in 70 ds. (Stephany-NY).

WEST BERLIN: RIAS 6005 p/d cd. in 13 ds. (Warner-AUST).

YEMEN (North): Radio Sanaa 9780 p/d form ltr. in 83 ds. for an AR rpt. and 2 IRCs. (Gunter-NC).

YEMEN, DEM. REP: PDRYBS 6005 f/d cd. in 670 ds. for 3 IRCs. (Foxy-VA).

ZIMBABWE: ZBS Radio Two 3306 f/d cd. w/ personal ltr. in 23 ds. for one US dollar. v/s K. Harold (Wilknor).

We better end it here. Kind of a short column this month. Get your reports in early next month as I will be in the Tampa area for a week in Feb....Sam.



update

February 1985***Number 178

Tom Alleman
636 E. 74th Terr.
Kansas City, MO 64131 USA

UPCOMING DEADLINES: 20 February (March) 10 March (Mid-March) 20 March (April)

Reproduction permitted. Credit original reporter and NASWA UPDATE. Dates, times and days GMT: freqs kHz.

ANGOLA Voz da Zaire--Bassacongo, 4884.8 in PT 2110-2125 w/ ID and several African selections. Mentions of Bassacongo. Weak. (Sam Barto, CT 12-24)

BOTSWANA Gaberone noted with usual farm animals IS 0355 then ID in EG at 0400 on new 4820 (ex-4848). Bad QRM from Honduran HRVC. 7255 not heard. (Victor Jaar, PQ 1-6,7)---Same on 7255, 4820 and 3356 0350-59 w/ IS followed by ID. 4820 especially good level. (Barto, CT 12-30)

CAMEROON Yaounde, 9745 in FR/EG 2035-2118. Last month I said EG prgm definitely was a half hour. Wrong! Although noted repeatedly in December w/ 30 minutes of EG, I now note FR to 2100 when EG nx begins in Nat'l service. This channel is the so-called International Service. Nx is very good in coverage of African events. Good. (Richard D'Angelo, PA 1-12, 13)

CLANDESTINE LV del CID, 6300, in SP 0300-22; good. ID and into a comedy/satire before a live audience. (D'Angelo, PA 1-14)

GHANA GBC, 4915, in EG 2143-57; good. Choral mx. ID: "This is the Ghana Broadcasting Corporation. The time is now 9:45. Here are the highlights of the news." News and sports followed by "GBC, Accra" ID and local singing at 2155. (D'Angelo, PA 1-13)

GUATEMALA R. Tesulutlan has reactivated 3370, noted // 4835 at 1140 in SP. Weak signal on good Guatemalan opening (others noted same time, though not IDed are 3300, 3325, 3360 and 3380. (Jaar, PQ 1-2)

INDIA AIR Bombay, 4840, very weak in Hindi 1240-54 on 12-30. Vocal selections by W and a few anncmts by M, and ID 1250. (Barto, CT) +++AIR Delhi, 4860, in Hindi 1235-50; fair. Melodic vocals. Fair level w/ Hyderabad 4800 booming in. (Barto, CT 12-30)

INDONESIA RRI Padang, 4002.7, in IN 1120-34 w/ vocal selections by M&W, ID and some instrumentals. Kendari also noted on 4000.2 but much weaker. (Barto, CT) +++RRI Ujung Pandang, 4752.6, in IN 2130-51 in IN w/ sign on, ID, many IN anncmts and local mx. Tremendous signal. (Barto, CT 12-24)***Unusual time for this one. tba

OMAN Looking for Muscat lately? Noted here at 1340 on 9735, ID and religious prgm in AR. Reception was good but only possible during deep winter on this freq. Not heard any more. (Jaar, PQ 12-9)

PERU R. Colonial, 6137.8, in SP 1120-32 w/ IDs, TC, vocal selections and anncmt by M. Clear signal. (Barto, CT 12-13) +++R. Satellite, 6724.3, in SP 2300-2310. ID, TC and local Peruvian selections. (Barto, CT 1-1)

SENEGAL Dakar, 4950, in FR 2120-42; good. Program of native mx featuring some interesting local instrumentals, M anncr w/ extensive descriptive narration. No sign of 4890 this day. (D'Angelo, PA 1-13)

SOUTH AFRICA Capital Radio, 3930, in EG 0304-20; good. String of rock tunes, theme from "Chariots of Fire," occasional DJ chatter. Ads for local stores. Signal better than usual with little ARO QRM. (D'Angelo, PA 1-13)

SRI LANKA DW, 7200 and 7110, from 1423-35 and in lang 1430. DW IS until then w/ EG IDs and site anncmt as Trincomallee, Sri Lanka. 7200 very strong. 7110 much weaker. (Barto, CT 1-1) +++SLBC15424.6 and 9719.0, w/ EG ID 1400 followed by drama till 1414, ID and TC. Both fair. (Barto, CT 12-29)

SUDAN Omdurman heard with weak signal in AR 0445 on 5039. Talk by M on Sudan's role in exodus of Ethiopian Jews. Several years back, Omdurman was much easier to hear in NAM. 5039, 6150 and 7200 were well heard. Now 5039 barely makes it . . . (Jaar, PQ 1-6)*** True, true. I QSLed 5039 with ease once upon a time. tba

Next, our regular report from Hitoshi Miyashita in Japan. First his clandestine reports: IRAN VoMujahedin Khalgh (so-called) seems to have changed schedule. Noted in late Dec. around 1430 and *1700. Now noted on 3500 and 4220.0 but 6655 must have QSY or QRT. Nothing hrd in the range 6200-7000! Couldn't check correct sked because of QRM.

Vo the Iranian Communist Party was heard 11-22 on 4468 around 1730 but not heard since. Instead have noted a new one on 3941, 12-27 at 1724-40 and *1657-1750* 12-28. Contentes as follows: s/on w/ male chorus accompanied by paino, W opening anncmt w/ ID:

"In Seda-ye _____" after M anncr, Internationale. Omitted word sounds like "Habari" or "Habori" but not sure. Prgm of talks by M&W in Persian, apparently anti-Khomeini. Many different kinds of mx used as bridges, ranging from classical to flamenco. USB through-out.

IRAQ Vo the Iraqi People heard *1230-1400* on 11-30 and 12-2,3 on 7070v, and on 6992.5 on 12-4 and on 6990.5 on 12-5. Not heard since. AR and Kurdish orgm, AR till 1300. Kurdish ID as "Ere deng-y gel-y Iraqi." The word Iraqi heard like "Eraqa" or "Araqa." Couldn't copy AR ID due to poor level. Many tnx Mr. Yoshinori Kato of URSC for information regarding ID.

And in other logs:

BANGLADESH RB noted on 6240 in EG 1835-1900 on 12-16. Seems to be tes transmission. Nice signal but heavy noise on this day.

BOLIVIA R. Abaroa, Riberalta, on 4718.4 at 2230 (long path for Jpn), on 12-22 very poor in SP. Mx prgm, and QRM from Vietnamese stn on 4720 after *2230.

CHINA Xinjiang PBS on 2559.8 recently 1200-1730* in Uigur, // 3990, 4735. Can't tell if NF, spurious or ghost. First noted 12-11.

KASHMIR Azad Kashmir R. noted w/ severe het on 4814.6, 1144-57* on 12-24. Lang may be Kashmir.

PERU R. Eco de Iquitos, 5010.6, in SP 1130 12-23. Poor.

SYRIA SBCTV, moving from 7245 to 7430 noted 12-24 at 2230 in SR w/ Iraqi bubble jammer.

USSR Tashkent 5035 *2330-0000* in Uzbek for China. Daily in December, fair. Seems to change to Alma Ata from *0000.

More from Hitoshi in upcoming issues.

We conclude with a report from Dr. Richard Wood in Hawaii:

BOLIVIA R. Nueva America, 4795, 0404* after full s/off wording by W: "R. Nueva America de La Paz...llegara de nuevo manana con noticias, comentarios, reportajes, musicam radioteatro, etc. Que tengam feliz sueno." Brief harp melody and off. (12-27)

BOTSWANA By now surely everyone will have logged the potent new 50 kw of RB on 4820. Noted *0350 w/ animals IS and into Setswana ID and anthem 0400; also around 1700 in Setswana, and overrides HRVC. (12-19 and daily)

CHINA Unknown location, 2430, w/ CH talk and instrumental mx 1635-50. Not // Fujian 2340 or PLA Fujian 2490 then. (12-26)

R. Beijing Hindi 7080 *1600-55* ID: Yeh R. Beijing hai." Beware, this is not R. Pakistan, also heard here. (12-29)

CPBS Minority Lang Service 15670 w/ Kazakh ID and nx 0600-30. (12-25)

INDONESIA RRI Jakarta, 4774.5, w/ IN ID 1600 and into a traditional IN musical drama. (12-29)

LIBERIA LBS Monrovia, 3255, *0500 in EG; lists day's prgms, one promising opus is "From the Government Death Announcement Files," others include BBC relays such as "World News" and "Focus on Africa." Also has programs in Kru language. (12-28)

MADAGASCAR In a more predictable move for the southern hemisphere summer than R. RSA's move to 90m, R. Madagasikara seems to have replaced 90m (3286) with 60m, 5010. Noted in Malagasy 0315-30 including US soul mx and on Christmas Eve, the FR hymn "Minuit Chretiens" (known in US as "O Holy Night"). This should be a challenging catch for mainland DXers. (12-24)***Actually pretty easy here so far at *0300. tba

MONGOLIA RUB, 4996, 0800 had a time signal of six level pips and into Mongolian "khabar" (nx). No //s detected. Previously heard 7259 is now drowned by Moscow in RS. (12-23)

NEPAL RN 7165 and 5005 logged for the UADX Asian DX Contest Championship, which I entered, at the specified time of 1450-1500 w/ EG nx. Had an easy-to-copy series of diplomatic messages on the King's Official Birthday. Later observations show fade-in as early as 0800 which should make ECNA reception on 7165 possible. (12-29)

More from Hawaii in future editions.

We'll hear from Richard Wood, Juan Carlos Codina and Kevin Szot in Brazil in the next UD. Hope to hear from you, too.

Best 73, *TR*



LOG REPORT

section A

2000 to 4899 kHz

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LONG COLUMN THIS MONTH!

This month we were flooded with logs for 90 meter stations. Check out the new 4820 Botswana freq, AIR on 4800, several Angolans and other goodies. Also, results from Mike Bolitho's DXpedition. Cheers.

- 1610 ANGUILLA, Caribbean Beacon; 0430-0502*, EG, XMAS carols, ID at 0442, fair signal (Hill 12/23)
- 1620 U.S./PIRATE, PRG; 0525, EG, vly weak w/rock mx, ID (Alexander PA 1/1)
- 1620.2 U.S./PIRATE, R. Angeline; 0640, mx box IS of "Send in the Clowns," finally IDd at 0700, into pop mx, phony ads for health insurance, Jimi Hendrix, etc (Alexander 1/1)
- 1631.5 U.S./PIRATE, WSWL-Voice of the Purple Pumpkin; 0627, IDs, "Oldies" rock and roll (Alexander 12/22)
- 2300 N. KOREA, Hyesan; 1635, KR, CBS ID, choral mx (Wood 12/24)
- 2340 CHINA, Fujian; 1635, CH tx on reunification of Taiwan (Wood 12/26)
- 2360 GUATEMALA, R. Maya; 0058, SP, mx w/OM tx (Bolland, FL 12/27)
- 2390 GUATEMALA, LV de Atitlan; 0110, SP, marimba mx, mixing w/Mexican earlier (Dickson 12/28)
- 2390 MEXICO, R. Huayacocotla; 0107, ID by OM, s/off at 0112*, slow easy mx (Dickson 12/27); 0045 (Lineback, TX)
- 2430 CHINA, Unknown location; 1635, CH tx, inst. mx (Wood, HI 12/26)
- 2490 CHINA, PLA/Fujian; 1630, CH ID, Beijing opera (Wood, HI 12/26)
- 2850 N. KOREA, KCBS; 1438, KR, haughty tx by YL, OM singing somber mx, more tx w/mx (Park, Hawaii 1/4); 2118, KR, strong w/long tx by YL (Rigas, Seoul, S. Korea 12/16)**What the heck are you doing in Korea, Christos?
- 2952h USSR, R. Moscow via Vladivostok; 1605, CH ID, nx, 2x1476 which was also hrd, my 1st Asian harmonic here (Wood 12/25)
- 3150 N. KOREA, KCBS/Pyongyang; 1455, KR, usual national patriotic mx, 1500, ID and world nx (Sharpe, CA 1/3); 1814, weak w/march mx and Korean tx (Rigas, S. Korea 12/16)
- 3200 CHINA, PLA/Fuzhou; 1529, CH, opera by OM, ID at 1530, then tx, mention of Taiwan (Sharpe, 1/3)
- 3200 LIBYA, SPLAJBC; 0104, AR, px of slow AR mx, tx, 0113 more mx, then YL w/tx (Murff, NM 12/10); 0440, lcl mx, ID at 0445* (Johnson, TX 1/4); 0410, patriotic mx (Wood 12/26)+2
- 3200 SWAZILAND, TWR; tent. w/EG relig. sermon by OM, on at 0338, //3240 (Hardester 12/20)
- 3222 TOGO, R. Kara; 0525, IS and NA, ID at 0530 followed by weak tx in FR (Johnson 1/1)
- 3223 INDONESIA, RRI/Mataram; presumed, 1138, IN, YL, slight trace of signal here, some mx (Bolland 12/9)
- 3230 SOUTH AFRICA, R. RSA; EG, nx, ID (Speer, CA 12/26)
- 3229.1 PERU, R. El Sol de Los Andes; 0955, SP, tx, QA mx, ID at 7002 (Alexander 12/7)
- 3240 SWAZILAND, TWR; tent. w/OM preaching in lang at 0310, relig. mx at 0340 (Speer 12/26)
- 3250 HONDURAS, R. Luz y Vida; 0125, SP, mx, OM tx (Jordan 12/7)
- 3250 SOUTH AFRICA, SABC; EG, XMAS mx, SABC nx at 0330, px preview at 0335, then mx (Speer 12/26)
- 3253v VENEZUELA, R. 1570/Valencia; 0550, high energy "music" str w/lively vocals, super excited IDs, promos and slogans, got tip from 12/84 SPEEDXGRAM (Jordan 12/23)
- 3255 LIBERIA, LBS; 0617, EG, XMAS selections by Nat King Cole and Johnny Mathis (Jordan 12/23); 2222, EZL mx, some gospel and soul mx (Bolland 12/12)
- 3255 VENEZUELA, R. 980; 0200, several IDs, lively LA mx, anmts (Dickson 12/16); series of promos, including one for Rumbos

- net, 0209, then ID by OM w/mention of El Tigre (Cunningham 12/5); 1020, mention of "Super Radio" (Alexander 12/13)
- 3260 ECUADOR, R. Rio Carrizal; 0245, SP, lively LA mx, expressive mx (Dickson 12/13); 0305, SP, LA mx, very little tx except for TCs, two IDs at 0336 as "LV de Rio Carrizal," NA at 0337 (Alexander 12/26); 0239, upbeat mx (O'Brien, VA 12/15)
- 3270 NAMIBIA, SWABC; EG/AK; XMAS mx in both langs, billing ID as "All Night Svc" at 0400 (Speer 12/26); 0115, EG, non-stop EZL mx, //3295 (Dickson 12/12); 0352 (Cucura, PA 12/16)
- 3275 SWAZILAND, TWR; 0313, singing by chorus followed by ID, EG tx, IS and s/off at 0315 (Johnson 12/19); 0257, EG/Vern, OM w/ID and relg px (Cucura 12/6)
- 3280 ECUADOR, LV del Napo; 0215, SP, tx about XMAS, relg tx, excellent reception (Dickson 12/16); 1040, Quecha (Bobb 12/26)
- 3285 BELIZE, RB; 0030, EG, taped replay of radio skit, ID, PSA by OM, TC (Jordan 12/7); 0130, EG (Dickson 12/22); 0205, EG, XMAS mx w/many ads, ID 0232 (Speer 12/24); 1100, DJ Trevor Jeffries w/Culture Club mx (O'Brien 12/15)+4
- 3286 ECUADOR, LV del Rio Tarqui; 0354, SP, nice HC mx w/lots of IDs, s/off at 0420 (Foregren WI 12/4); 0236, romantica mx px, heavily QRM'd by Madagascar (nice QRM!) (Valko 12/11); 0235, TCs and IDs, still here at 0420 (Alexanderr 12/16)
- 3290 ECUADOR, R. Panamerica; 1050, SP comments and folklore-styled mx hrd (Bolland 1/1)
- 3295 NAMIBIA, RSA; 0225, EG, usual mx px, slight het on freq (Dickson 12/8); 0400, AK, ID at 0400 (Speer 12/26); 0352, AK, lite mx, //3270 (Cucura 12/16); 0252, EZL mx, including CGW medley, ID at TC (McLemore, FL 1/1); 0358 (Park, 12/31); 0425, classical/pop mx, OM host (Kusalik, AB 1/10)
- 3300 CHINA, Fujian; 1035, CH, OM w/tx, //5170 (Bolland 1/2)
- 3309.8 PERU, R. Bague; 1020, SP, OA mx, echo anmts, ID at 1028, tx by YL/OM (Alexander 12/16)
- 3310 BOLIVIA, R. San Miguel; 0127, SP, Charango mx, YL w/ID tape to 0129, then OM w/mx px, another ID, 0143, gave three good reasons to listen to R. San Miguel (Were the reasons a QSL, pennant and a free trip to Bolivia??? mln) (Murff 12/10)
- 3315 ECUADOR, R. Pastaza; 0135, SP, lively LA folk mx, noisy at times, but tolerable (Dickson 12/11); 1120, hrd on 3316 after shift from 3491.9 (Bolland 1/2)
- 3320 SOUTH AFRICA, RSA; Afrikaans Svc., *0350, usual musical IS, followed by s/on w/rooster crow, early-morning pop mx px (Cunningham 12/2); 0410, mx and tx, //4880 (Cucura 12/28)
- 3325 GUATEMALA, R. Maya; 1110, lang w/OM tx, ID (Bobb 12/14); 0215, marimba mx, XMAS mx (Dickson 12/7)+2
- 3325 BRAZIL, R. Liberal; *0800, PT, s/on w/Brazilian pops, many mentions of Liberal at 0802 (Alexander 12/7)
- 3329.9 PERU, Ondas del Huallaga; 1038, SP, OM tx, EZ copy lately on difficult stations due to new 8 pole crystal filter installed in R70, TC, Hueynos mx (Bolland 12/30)
- 3330.8 COMOROS ISLANDS, RC; *0258, Inst. NA by band, two IDs by OM in Comorian w/mentions of Comoros and Moroni, tx by another OM, into only 2 min. of Koran (as compared to 5 the nite before), astounding signal tonite (Valko 12/18); 0300, NA, Koran, F/out by 0320 (Swaringen 12/6); *0300 (Sams 1/6); 0259, carrier then NA and s/on in FR, new one for me (Johnson 12/21)**Had several calls on this one...mln.
- 3330 UNID, 1100, SP, Latin under CHU, hrd several times in the last year, don't know if I'll ever ID (Sams 12/15)
- 3339 TANZANIA, RTZ; *0258, s/on w/xylophone IS to 0259, then NA type song and immediately into Koran until 0311 (Valko 12/2); 0302, Swahili, Koran until 0316, ID at RTZ by OM, Afro mx (Swaringen, NC 12/17)
- 3356t BOTSWANA, RB; noted w/IS at 0348, //4820, 7225 and 4848, ECSS necessary on 3356 (Hardester 12/20)
- 3360 CHINA, R. Beijing; 1011, CH OM and YL, both in comments w/mx at 1015, followed by more comments. At 1030, possible IS and ID and nx (Bolland 1/2)
- 3360 GUATEMALA, LV de la Nehuale; 1110, SP and lang, long marimba solo, OM w/tx, XMAS mx (Bobb 12/21); 0230, nx, wild Guatemalan mx (Dickson 12/24)

- 3366 GHANA, GBC-1; 2220, good signal, ID at 2245, "This is the GBC. Here are the highlights of today's nx"(Reinstein 12/24)
- 3367t IRAQ, R. Baghdad; 1355, lang, hrd one morning only during good propagation, OM w/slow tx (Sams 1/3)
- 3375 PAPUA/NEW GUINEA, R. Western Highlands; 1250, PD EZ list, inst. and vocals, ID on hour (Murff 12/12)
- 3377 JAPAN, NHK/Osaka; 1015, JP, long tx until 1030, then into seeming advanced EG lessons, nice tx about the Thanksgiving tradition in America, not //3607.5 USB (Murff 11/26)
- 3380 MALAWI, MBC; 0253, EG/Chichewa, s/on info in both langs, followed by nx summaries, best on LSB (Forsgren 12/7)
- 3395.5 ZIMBABWE, ZBC; 0325, EG, ID at 0328, OM mentioned "broadcasting in the 90 mtr band" (Swaringen, NC 12/6)
- 3479.8 BOLIVIA, R. Padilla; presumed at 1103, OM in SP w/mx, very weak signal (Bolland 12/30)
- 3535 CHINA, Fujian FS 2; 1644, Amoy? CH opera mx, YL w/tx, Folksongs and OM w/ID, //3640 (Park 12/5)
- 3540 CUBA, R. Rebelde; 0915, SP, mx, tx by OM, more SP pops, ID, tx, also noted 3600 at 0925 (Tratto, FL 12/30)
- 3600 UNID, 1007, OM and YL txing, in past, I've heard harmonic of R. Rebelde here, this one sounded like a Peruvian (Field)
- 3630.3 CLANDESTINE, R. Venceremos; 0015, SP, tx by OM, YL, //6556.5 during xmtn this freq changed to 6560.5 (Alexander 12/16)
- 3773 CLANDESTINE, V. the Broad Masses of Eritrea; 1450, lang, OM w/mentions of Mid East places (Sams, 1/3 and 4)
- 3925 JAPAN, NSB/Tokyo; 1115, JP, OM tx good at times, ID, 1130 (Ried 12/28); 0857, end of special joint px w/KZOO Honolulu, sad mx, into ads and EG LL (Park 11/23)**You're probably one of the few people in the world to experience both sides of this xmtn...mln. 1654, UNID w/Koran, beneath NSB (Park 11/25)
- 3930 CAPE VERDE, Voz de Sao Vicente; 0118-0130*, on late for New Year, xlnr signal, nearly local FM quality (that's right Steve, rub it in! mln) PT ID by OM between pop mx tunes (Reinstein 1/1); 2310, PT, pop/rock px, including bogus cover in PT of "Thriller" (Pappas 1/4); 0001* (Alexander)
- 3930 TRANSEKI, Capital Radio; 0310, pop mx, Winston ads, ex nx, ARDs quiet tonite (Dickson 12/24); 0408, EG ID, ads (Wood 12/26); 0305, EG, IDs, gospel mx px (Alexander 12/30), 0308, TC, ID, "Capital Radio 604, Your Favorite Five-Year-Old" (D'Angelo 12/22)
- 3930 S. KOREA KBS/Suwon; 2256, KR, fair w/tx and ID on the hour (Rigas, S. Korea 12/16)
- 3937.5 UNID, 1057, ID sounds like "Transmite R. El ?????" Many mentions of what sounded like Quito. Mx sounds a little Peruvian, tho...some days noted on 3940 (Valko 12/13)
- 3945 JAPAN, NSB; 0719, JP, tx until cont. rock mx px w/o anmts (Clifford 12/25)
- 3958 UNID, EG, tx about mx by 2-men, played song "J.C. Superstar", mentioned England several times, possible call-in from YL, not hrd after 0500 (Clifford 12/13)
- 3958 FALKLAND ISLANDS, FIBS; 0901, EG, BBC nx, OM w/TC and "Now for the wx For Stanley for Dec. 16" OM DJ (Cucura 12/16)
- 3970 W. GERMANY, R. Free Europe; 0630, Czech?? East Euro lang w/what sounded like a play (Sams 12/25)
- 3985 S. KOREA, R. Echo of Hope; 1650, KR, OM/YL w/tx, manybe nx, mentions of "KBS" theme and sked (Park 12/3)
- 4003 INDONESIA, RRI/Pandang; 1105, OM, IN mx typical of India or the Near East. 1113, Koranic-type px (Bolland 12/6)
- 4060 UKRAINIAN SSR, R. Moscow W.S.; 2205, EG, tune-in to nx, ID (Alexander 12/15); 2155, UNID w/cabaret mx, long monolog, decent signal (Alcorn, NJ 1/6)
- 4380 CHINA, PLA-2; 1130, CH, tx by YL/OM into CH mx (Prath 12/16)
- 4330 CHINA, PLA-1; 1115, CH, mx px, OM/YL, //5265 (Prath 12/16)
- 4366.8 UNID, Saranique Radio? 0205-0212*, FR, repititious tape kept playing an accordion IS followed by a man w/an ID in FR, any ideas? (Swaringen 12/10)
- 4380 CHINA, Fujian; 1030, CH YL comments followed by CH mx, just over noise (Bolland 12/11)
- 4485 USSR, Petropovlavsk/Kamchatsky; 1058, RS, mx until 1059, then time ticks and ID by OM, YL nx (Bolland 12/27); 1702, Mayak px w/YL nx, //4040 (Park 12/4)

- 4500 AUSTRALIA, VNG; coming in beautifully at 1515 w/CH regional noted underneath w/opera-type pxs (Kusalik, AB 12/17)
- 4568 ARGENTINA, R. Rivadeavia; SP, 008, in USB w/ex px, ID, good signal (Forth 12/9)
- 4607.3 INDONESIA, RRI/Serui; 1058, IN, pop mx w/OM, "Love Ambon" at 1059 followed by ID (Bolland 12/6); 1333, IN-type mx, some EG CSW, OM mention Kepala (Clifford 12/20)
- 4635 USSR, Dushanbe; 0030, lang, had Dushanbe at 0030, but found something still on this freq well past 0300, non-descript mx (Sama 1/6)
- 4697 BOLIVIA, R. Riberalte; 0151, ID after EZL mx, almost fair signal at times, seems to be gradually improving (Dickson 12/28)**Heard here several nights in Chicago...mln.
- 4711 CUBA, Orbita 1 via Havana; relay of Orbita 1 px sending spurs all over low end of 60 meter band -- fundamental, of course, was at 4765.1. Made a real mess of this part of the band (Cunningham 12/5)
- 4719 INDONESIA, RRI/Ujung Pandang; 1553, IN, OM w/lite pop mx, ID, mention "Pandang" (Park 1/4); 1123 (O'Brien 12/25); 1517, noted w/ "musik hiburan" w/no RTTY present, just beautiful signal, noted w/IDs and mx to 1600* (Kusalik, AB)
- 4725 BURMA, BBS; 1126, OM and YL w/tx followed by mx at 1128 (Bolland 12/30); 1439, UNID, possibly Burma w/"Jingle Bells" in oriental lang, 1525, OM gave lecture on teaching foreign languages in EG (Clifford 12/22)
- 4739 BOLIVIA, R. Mamora; 0500, SP, LA vocal mx, one or 2 CP-sounding songs, "Fleshdance" theme, TC and ID by YL (Valko 1/1)
- 4740 AFGHANISTAN, RA; 1530, string/flute inst. mx and some chants, QRM de RTTY, possible ID in Urdu by OM (Kusalik, Alberta, 12/17)
- 4750 CAMEROON, R. Bertous; noted at *0400, into px of soul mx after s/on anmts (Johnson 12/18); 0057, on late w/melodic highlife mx, unable to ID the lang, so maybe this was a Latin, no other Cameroon stns noted tonite (Reinstein 1/1)
- 4753 INDONESIA, RRI/Ujung Pandang; 2128, IN Rayuan Pulau Kelapa, then ID by YL w/percussion, into nx by OM to 2137 (Valko 12/3); 2155, EZL mx, possible station IS (Swaringen 12/22); 2144, oriental mx (Bolland 12/8)
- 4755 PERU, R. Huenta 2000; 1052, SP YL, Huaynos singing w/YL tx (Bolland 12/27)
- 4760 VENEZUELA, R. Frontera; ID as "R. Nacional de Venezuela" and a "R. Frontera" ID at 0234 (Johnson 12/20); 0230, LA pop and rock mx (Dickson 12/22)
- 4760 LIBERIA, ELWA; 2150, EG relg px, mx (Alcorn 1/6); 2230, EG, just caught end of xmtn w/ID and NA (Alexander 12/15); 2300, "Review of 1984" (D'Angelo 12/31); 2212 (Dillon 1/3)
- 4760 SWAZILAND, *0255, EG/Zulu, ID, "This is TWR, coming to you from the Kingdom of Swaziland" (Dillon 1/1); 0256 (Dickson 12/3); 0323, flute version of PJB IS (Park 1/4)
- 4765 BRAZIL, R. Nec. Cruzeiro do Sol; 1054, PT OM, mx w/partial ID at 1056, no Cuba this AM (Bolland 12/7)
- 4775 PERU, R. Tarma; 0302, SP, LA ballads then OM and YL w/long tx, ID at 0315 (Murff 12/10); 0345 (Dickson 12/24)+1
- 4780 DJIBOUTI, RD; 0330, Somali ID, Somali-style pop mx, also hrd 1645 (Wood 12/24)
- 4780 KARELIN SSR, Petrozavodsk; interesting AM grayling recep. lately at 1130-1300, //5065 (Berg)
- 4783 MALI, RM; 0635, Lang/FR, long tx in lcl lang by 2 OMs until 0655, then lcl mx, 0701, into FR (Cunningham 12/10); 0644, guitar like string mx w/FR OM (Clifford 12/31); 0600 (Green)
- 4785 AZERBAIJAN SSR, R. Baku; 2153, running late for New Year, good signal over a Brazilian (Reinstein 12/31)
- 4785 COLOMBIA, Ecoe del Combeima; 0620, SP mx, Ids, anmts, QRM de Carabobo (Paszkievicz, WI 1/1)
- 4795 BOLIVIA, R. Nueva America; 0404*, sP off after full s/off wording by YL, "R. Nueva America de La Paz..." (Wood 12/27); 1032, std LA pops, ID by YL (Pappas, 12/30); 0250 (Johnson)
- 4800.7 ECUADOR, R. Popular; 0530, SP, HC mx, ID, OM DJ, still here at 0710 (Alexander 12/24); 0525 (Swaringen 12/24); 0135, world nx in SP, slight QRM (Dickson 12/18); 0620 (Speer)

- 4800 INDIA, AIR/Hyderabad; 1218, lcl lang, drum and string Indiana mx, YL in lang, ID for AIR at 1230, then into 5 min. EG nx (Valko 12/13)**Same noted in Chicago...mln. 1425, possible nx or commentary, Indian mx 1440 (Clifford 12/8)
- 4810 GABON, Africa #1; 2154, "Jingle Bells" with a regtime beat, on late til 2330 (Daly 12/24); 2140, world nx (Dillon 12/30); FR, 0643, YL DJ (Speer 12/24)
- 4810 PERU, R. San Martin; 0123, ballads, TC, theme mx w/anmts, IDs (Paszkiewicz, 12/29); 1035, ID and tx (Bobb 12/27); 2300, ID at 2308 (Swaringer 12/22); 0305 (D'Angelo 1/1)+2
- 4815 BURKINA FASO, RBF; 0627, FR, weak, OM in FR at 0633(O'Brien)
- 4815 BRASIL, R. Nac. de Tabatinga; 0206, ZY vocals, IDs(Plum 12/22); 0200, EZL and pops (Dickson 12/5)
- 4820 ANGOLA, R. Nacional; 2047-2100*, soul mx, then soft inst. mx w/prayer by OM inclcl dialect, NA and off, hoped at first it was Gambia...(Valko 12/3)**Angola ain't bad, OM...but are you sure it wasn't Botswana...see below...mln.
- 4820 BOTSWANA, RB; really pounding in lately to 2100*, one of the best at that hour, hrd 12/8 w/mix of soul and Afro combo mx during call-in show, closes with inspiration message and NA, all in lcl lang (Berg); 2130-2330, on late for New Years, pop mx in Setswana and EG, including Beatles' "Hello, Goodbye" at 2202 and again at 2221 (Reinstein 12/31)**Also noted widely at *0400 in // 4848 and 7255 by Krueger, Wood, Cunningham, Nikolich and others...
- 4825 GUATEMALA, R. Mam; 2252, OM w/tx, simple mx w/marimba(Bobb)
- 4825 PERU, La Voz de la Selva; 1031, OM/YL w/tx over folklorica mx, ads, IDs (Bolland 12/6); 0015 (Dickson 12/14); 1056, lcl ID, ads (Pappas 12/30); 0930-1030 (Bobb, Alexander)
- 4825 USSR, UNID site, 2204-2230*, running M1 R. Orbits-1 px, //4765. Four sites are listed for this freq: Starobelak carries FS px and RO-1 would be unlikely for the Ukraine. Yakutsk relays M1RO-2 according to URSC, so would not be //4765 which always carries M1RO-1, tho it is propagationally possible during a good opening. Ashkhabad has been logged here before, but to 2200* and relaying M2, not M1RO-1 (and would relay RO-4 version when carrying M1). Vladivostok would be the mostly linkly choice since it is near perfect grayline w/FL at this time and M1RO-1 is the proper px for that time zone, although Vladivostok is listed for Moskva FS px 0930-1500 only. So, programming and propagation point to Vladivostok (Reinstein 12/31); 0949 in KR, fair w/long KR tx (Rigas, Pusan, S. Korea)
- 4830 VENEZUELA, R. Tachira; 2230, spirited LAm w/OM DJ, TC and ID (Dillon 12/30); 0500, full ID as "Esta es RT...YVEB...transmitiendo desde San Cristobal." (Wood 12/20)
- 4832 COSTA RICA, R. Relej; SP, Latin pops, ID, at 0652, nasty het but the old RF2900 can't get rid of it (Speer 12/24)
- 4835 GUATEMALA, R. Tezulutian; 1310, SP, "Jingle Bells" with marimba beat (Daly 12/24)
- 4835 SARAWAK, RMS; 1515, Malay, YL w/pop vocals, tx about technology by OM, 1530, Id and nx from Kuala Lumpur (Sharpe)
- 4835 S. AFRICA, SABC; 2045, EG, pop mx, comedy skit, ID as "EG SVC of the SABC," nx at 2100 (Alcorn, 1/5)
- 4840 VENEZUELA, R. Valera; 0320, SP, mellow pop vocals w/one simple ID (Foregren 12/5)
- 4845 BRAZIL, R. Nacional Manaus; 0334, PT, YL w/lcl nx in Brasilia, probably review of the year (Dillon 1/1)
- 4845 BRAZIL, R. Nac. do Amazonas; ID at 0157, catchy Braz. mx (Dickson 12/12)
- 4845 MAURITANIA, RM; 2300, AR, tx by OM, QRM, low audio (Reed)
- 4844 UNID, 1458, subcontinent mx, cymbals, strings, flutes and drums, soft spoken annor, mentioned Malaysia at 1530, so probably Kuala Lumpur...(Clifford 12/24)
- 4848 BOTSWANA, RB; 0400, IS, singing, U.S. pop mx (McKellar)
- 4850 VENEZUELA, R. Capital; 0906, YL w/ID and greeting, pop mx (Bobb 12/31)
- 4850 COSTA RICA, R. Columbia; 0400, SP, nice LAm mx w/OM DJ, TC, ID (Dillon 1/1); 1045, bird sounds, TC (Blanchard, FL 12/31)
- 4851.2 ECUADOR, R. Luz y Vida; 0620, SP, HC mx, YL, s/off w/HC NA (Alexander 12/26)

- 4853 YEMEN, R. San'a; 0410, AR, distinctive M/E mx, an old favorite in 60 meters, //9780 (O'Angelo 12/9); 1928, very strong along with Chad today (Valko 12/5)
- 4870 BENIN, ORTB; 2102, FR, high-life mx, OM DJ, anmta (Dillon 12/23); tx by YL and OM (Reed 12/20); 0721 (O'Brien 12/18)
- 4870 UNID BRAZIL, badly overmodulated at 0930 w/Brazilian mx, occasional TCs but couldn't hear well enough to determine zone, ID at 1000 w/ZY calls, anmt of MW and SW freqs, gone by 1030 (Berg 12/30)
- 4870 ECUADOR, R.. Rio Amazonas; 0245, fme LAM, nice vocals, loud announcers, 0305* (Dickson 12/9)
- 4875 BRAZIL, R. Nec de Boa Vista; 1007, mx followed by fast talking anncr (Bolland 12/6)
- 4876 BOLIVIA, La Cruz del Sur; 1035, OM and YL w/reig. tx, "Silent Night" and "Jingle Belle" played (Bobb 12/21)
- 4879 UNID, 1330, lang, YL in Asian lang, stringed Asian mx, possibly Pakistan??? (Same 1/4)
- 4883c VIETNAM, 1404, OM and YL w/possible rx, Indochinese mx, Chime tones at 1455, no ID (Clifford 12/11)
- 4885 ANGOLA, FR do Zaire; several evenings noted from 2150 when station became audible to 2200 -- thanks to Jerry Berg. I've tried for this a long time (Field)
- 4885 BRAZIL, R. Clube do Para; 0815, PT, OM w/IDs and mx, one song w/very fast vocals (Bobb 1/3)
- 4885 COLOMBIA, Ondas del Meta; 0405, lively LA mx, TCs, big band mx (Dickson 12/24); latin pops 0735 (Speer 12/24); 1004, ID and station promos (Bolland 12/6)
- 4885 KENYA, VoK; 0405, Swahili mx, item on "Rais Reagan" attacking Soviet invasion of Afghanistan (Wood 12/27)
- 4890 PAPUA/NEW GUINEA, NBC; 1345, US CSW mx, some oldies (Dickson 12/6); EG, 0750, bad het (Speer 12/24)
- 4890 SENEGAL, ORTS; 2212, speech about national development (Dillon 1/4); 0710, guitar-like stringed inst., poss. FR ID (Clifford 12/30); 2200, lcl nx (Reed 12/25); 0802 (Niekamp)
- 4895 BRAZIL, R. Bere; 0135, clear ID, lively Braz. pop mx, anmts, somewhat noisy tonite (Dickson 12/14); 0130-0203* (Cobb)
- 4899 INDONESIA, RRI/Surakarta; 1514, IN, overmodulated tx, interlude, ID as "RRI/Surakarta, fuzzy gemelan (Park 1/4)

DX-PEDITION RESULTS

NASWA member Mike Bolitho recently completed a DX-pedition during the New Year's break (Dec. 30- Jan. 1). Mike traveled 110 miles NW of Toronto and used a Drake SPR-4 and Hammarlund HQ-180 with a 500 ft. wire running east, a 1,100 ft. wire running south, and a 1,100 ft. wire running NW. Here are some of the stations he logged...

2390	Guatemala, LV de Atitlan	2350	4717t	Bolivia, R. Abar.	0200
2490	Brazil, R. Educacao Rural	0201	4473	Bolivia, R. Movima	0032
3230	Peru, R. El Sol	1008	4751	Zaire, LV Zaire	*0357
3253	Venezuela, R. 980	0830	4753	RRI/Ujung Pandang	2120
3260	Ecuador, LV de Rio Carriz.	0145	4762	Radio Inca	0358
3270	Namibia, SWABC	2237	4760	Venz, R. Frontera	0030
3288	Madagascar, RTVM	2100*	4780	UNID (M/E mx)	0327
3300t	Burundi, LV de la Rev.	2220	4780	USSR, Petrozavod.	1312
3310	Peru, R. Bagua	1059	4775	Peru, R. Tarma	0901
3330	Peru, R. Ondas del Huallaga	1045	4800	AIR/Hyderabad	1231
3331	UNID (poss. Comoros)	0307	4797	Bolivia, RN Am.	1010
3345	Angola, R. Nacional	2150	4815	Burkina Faso	*0528
3380	Malawi, MBC (EG)	2205*	4820	Botswana, RB	*0400
3569	Brazil, R. Treze de Junho	1018	4810	Peru, R. San Mar.	0905
3930	Cape Verde, Voz de Sao Vic.	2228	4865	Angola, Em. Reg.	2202*
3930	Transkei, Capital Radio	0305			
3958	Falklands, FIBS	0210			
4254t	Peru, R. El Sol	0225			
4300	Peru, R. Moderna	0410			

I would be interested in receiving news of other NASWA DXpeditions.

CLOSING NOTE: Chuck Bolland notes strange goings on with Radio Pastaza. According to Chuck, it signs on 3491.9 at 1109 w/usual programming and shifts about 15 minutes later to 3316 kHz. Chuck says this occurs on a regular basis. Anyone else notice this? CUN30.



LOG REPORT

section B

4900 to 6199 kHz

Editor: Jerry Berg, 38 Eastern Avenue, Lexington, MA 02173

- 4900 VENEZUELA R. Juventud, rock mx 1030-1105, then LA mx, ID, 1-6 (Hewitt).
- 4904.5 CHAD N'djamena, Afr mx, kids chorus to 2200, NA to 2202* (Alexander-PA, Dickson); on late 12-24, to 2300* (Daly-NY); hrd 0455 with IS, NA march, kids chorus, FR ID, Afr mx (Summers-PA, wood-HI, Lineback-TX); chants 0534, psble ID, still there 0600(Clifford).
- 4905 BRAZIL R. Araguaia, PT pops, ID to 0300*, fairly gud (Valko); to 0401* (Forsgren-WI); ID 0933, mx, talk, poor-fair on 12-30 (Bobb-MN).
- 4905 BRAZIL R. Relogio Federal, 0240 12-10, ticks, TCs by gal, many IDs; weaker of the two ZYs (Valko); presumed 0802 12-26, pips, TCs, but no ID hrd (Alexander-PA).
- 4910 GUINEA Conakry, hillife 2305, talk, generally poor (Gray-MI, Bolland-FL).
- 4910 ZAMBIA Lusaka widely hrd, Fish Eagle IS arnd 0347, orchestral NA, EG s/on amrt for HS of R. Zambia, then Afr mx, requests, etc in vernacular. Generally fair-good (Niekamp-MN, D'Angelo-PA, Summers-PA, Forsgren-WI, Dickson); maybe them with EG mx at 0420 (Clifford); hrd all nite 12-31, still there 0133 1-1 (Reinstein-FL).
- 4910 PIRATE R. Clandestine, rock mx, X-rated amrts, etc, 0135-0148* 12-10 (Dickson).
- 4911 PERU Tent. R. Libertad, ads 1118, Trujillo mentions, tent. ID 1122 (Bolitho).
- 4915 CHINA Nanning, CH vocals, talk, 1245-1400, ID 1335, 1345 (Sharpe-CA).
- 4915 GHANA Accra, 2200* (Dillon-DC); on to 2400* 12-24 (Daly-NY); 0600 (Forsgren-WI, Gray-MI).
- 4915 KENYA Nairobi, flute IS *0258, ID under Brazil, poor (D'Angelo-PA); Swahili 0330-0350, ID 0348 (Murf); talk 0333, ID 0338, hillife mx, ads (Cucura).
- 4916.5 MOZAMBIQUE Maputo, *0251, IS with EG ID 0255, NA, into what sounded like Swahili; popped on 4916 for one minute at 0252 playing instr. mx; also hrd later; 12-10 (Valko).
- 4920 ECUADOR R. Quito, mx 0000, ID/promo 0015 (Dillon-DC); mx 0300, sports, wild ID (Dickson).
- 4920 AUSTRALIA ABC-Erisbane, hrd at various times in 0800-1300 slot, ABC mx 0800, wx, much pop mx; pips 1000, more mx; ID for "Radio C" at 1200, big-band mx (Speer-CA, Stuart-OK, Cucura, Dillon-DC, Palmer-WA, Daly-NY, Lineback-TX).
- 4922 PERU R. Ondas del Titicaca, huaynos 1006, TC, ID, more mx (Valko).
- 4925 CHINA Tent. at 1022 1-2, opera-style CH mx, Korean and CH folk mx (Park-HI).
- 4925 EQUATORIAL GUINEA Bata, Xmas mx 2120 (Field-MI); ID 2132, mx, nx 2150, NA to 2203* (D'Angelo-PA); Afr mx 0550 (Swaringen-NC); SP nx by gal 0605, ID, local mx (Rigas-IL).
- 4930 HAITI 4V+H hrd in 2230-0230 slot; relig. prgms, IDs, symphony mx; FR nx 0200, ID 0218 (Lineback-TX, Stuart-OK, Field-MI, Clifford, McKellar-CA, Dillon-DC); also 1138 12-15 with IDs, talk, trumpet mx, strong signal, all FR (Bobb-MN).
- 4935 PERU R. Tropical, non-OA mx, ID 0145 (Field-MI); LA pops, IDs 0220, also AMs 1030-1130 (Bolitho); ID, pops, 0255 (Lineback-TX); big ID 0300 (Forsgren-WI); mx, ads, IDs, DJ chatter, 1018 (Alexander-PA); pops 1036, ID, back to mx, fair signal (Eolland-FL).
- 4938 BOLIVIA R. Norte, mellow LA mx 0140 1-6, TC, no ID but mentions of "R. . . de Bolivia" (Sams); variety of LA mx 0214 12-17, many strung together; couple of IDs shortly after 0230, then slow male vocals (Johnson-TX).
- 4945 COLOMBIA Caracol Neiva, brassy LA tunes 0250 12-30, man DJ; nx, ads, TC (Dillon-DC).
- 4950 CLANDESTINE Voz de Verdade, 0300-0330, talk by man, mentions of Angola, pop/rock, IDs (Dillon-DC, Alexander-PA, Forsgren-WI, Wood-HI).
- 4950 SARAWAK Kuching, Xmas mx 1550 12-22, ID 1557, times, fqys, Merry Xmas, off (Clifford).
- 4950 PERU R. Madre de Dios, 0953, atenciones (Alexander-PA); NA *1015, OA mx (Bolitho). Murff rpts R. Ucayali 0205 12-10, pops, strn ID 0218.
- 4951 SENEGAL Dakar, ID 0612, not //4891 (Cunningham); 0745, gone by 0800 (Summers-PA).
- 4955 PERU R. Cultural Amauta, *1037 (JB, Bolitho); talk 1110, poor (Pappas-FL).
- 4955 BRAZIL R. Marajoara, mx prgm 0025 12-28, ID 0100, then s/off (Field-MI).
- 4960 ECUADOR R. Federacion tent., Quechua folk songs, to 0104*; ute QRM (Dillon-DC).
- 4965 BRAZIL R. Poti, E2L mx 0145, ID 0200, then s/off or faded out (Dickson).
- 4965 UNID. African hrd since 12-26, vernacular, s/on is *0530 in mid-prgm, regularly played Jingle, fades arnd 0610; no EG and no FR (Valko).
- 4965 PERU Tent. LV de Outervo, 1205 12-30 with tent. ID, but badly creamed and fading (Bolitho).
- 4970 VENEZUELA R. Rumbos, 0230-0430, 1030-1130 (Dillon, Hunt, McKellar, Park, Hewitt).
- 4975 COLOMBIA Ondas del Ortegua, 1137 ballads (Jones-MS); complete ID 1200 (Johnson-TX).
- 4975 PERU R. del Pacifico, tent. 0140, sermon, weak (Field-MI); tent. ID 0347 (Bolitho).
- 4975 TADZHIK SSR Dushanbe, local ID 1259, RM IS, into listed Dari (Bolitho).
- 4980 VENEZUELA Ecos del Torbes, 0130-0330 (Dillon, Hanks, Valko, Hunt); 1140 (Hewitt).
- 4985 BRAZIL R. Brasil Central, old time accord. mx 0050, ID 0100, nx, fair sig (Dickson).
- 4990 ECUADOR R. Baha'i, 0429, IDs betw. songs (Johnson-TX); ID 0450, mx, fair (Forth).
- 4990 IRAN Tehran, AR ID 1650, Koran recitations, back here, still jammed, fair (Wood-HI).

- 4990 PERU R. Ancash, 0850, IDs, TCs, OA mx (Alexander-PA, Jones-MS); ID 0940 (Bolland-FL).
- 4990 SOUTH AFRICA R. RSA, EG ID 0332, wx, fair (Dillon-DC); nx 0408 (Park-HI).
- 4990 VENEZUELA R. Barquisimeto, rom.mpx 0105, ID (Dillon-DC); LA mx 0350, faint CW (Hunt).
- 4996 MONGOLIA U.Bator, ID 0800, six pips, khabar (nx), good, no // detected (Wood-HI).
- 4996 PERU R. Andina, man with talking 1020 12-15, TC, nice mx, shouting, ID, fair (Bobb-MN).
- 5005 SARAWAK Sibn, 1016-1032 12-7, talk by man, local mx, poor sig (Bolland-FL).
- 5005 NEPAL Kathmandu, *1147, IS, ID, gal anncr, local mx, poor, //9590 not hrd (Cobb-MF).
- 5010 CAMEROUN Garoua, EG nx 2100, hrd to 2223*, past 0030 12-25 (Alcorn-NJ, Bolland-FL, Alexander-PA, Daly-NY); tribal mx 0530, IDs in FR (Jordan, Swarngen-NC).
- 5010 COLOMBIA Not absolutely sure, but seems R. Surcolombiana, formerly inactive; deep fades, ID 0201 (Reinstein-FL); sports 0240, not R. Eco, also here (Krueger-FL).
- 5010 MADAGASCAR Tananarive, carrier on 0255, stringed IS 0258, choral anthem 0300, s/on amnt, usually into pop mx or relig.prgm; sig ranging from poor to excellent (Johnson-TX, Krueger-FL, Cunningham, Valko, D'Angelo-PA, Pappas-FL, Wood-HI).
- 5010 PERU R. Eco back here, sports, LA mx 0120 (Krueger-FL, Dickson, Field-MI); also 0930-1100, with echo promos, "Panorama" prgm 1011, nx, few IDs (Cunningham, Jones-MS, Pappas-FL).
- 5015 CLANDESTINE R. Truth, bird call IS 0429, ID, pro-free enterprise prgmng, "Chariots of Fire" as bridge, IS 0458, 0500* (Cunningham, O'Brien-VA).
- 5015 ECUADOR Esc. Rdfon. Populares, mx 1109, amnts, poor signal 12-16 (Niekamp-MN).
- 5015 PERU R. Moyobamba, OA NA 1051, s/on amnts, ID (Alexander-PA); *1100, amncg 1550/5015 (Valko); ID 1130 (Bolito); much mx 2330, reverb IDs 2340 (Bolland-FL); IDs 0355 (Jones-MS).
- 5015 USSR Vladivostok listed, 1005 talk by man, Soviet pop mx (Bolland-FL); varied mx 1145-1245, seeming nx 1200 and 1230, no ID, but Mayak IS hrd; good (Cobb-ME); clas.mx at 1150, nx 1200 (Prath-FL); nx 1230, deep fades (D'Angelo-PA); Mayak IS 1229, not //4765 (Reinstein-FL); seemed RS talking 2230-2245, WRM frm stn with flute mx (Field-MI).
- 5020 ALBANIA Gjirokaster, good past 2337 NY eve, gone 0038 recheck; 5057 wkr (Reinstein-FL).
- 5020 SOLOMON IS. Honiara, EG nx 0735, into Bielama 0745, //9545 (Wood-HI); hrd at various times 1150-1330, island mx, IDs, TCs, Xmas prgmng, pops, ID 1300 for SIBC, then s/off; hrd to 1357 fade out 12-24 (Cobb-ME, Lineback-TX, Daly-NY); tent. them 1207-1232, EG pops, very weak, maybe a R. Happy Isles ID (Hewitt).
- 5025 CUBA R. Rebelde is widely hrd from 2145 to 1300, apparently 24 hr operation. Almost as strong as 4765, hrd //590, 600, 620, 630, 690, 2145 (Reinstein-FL); good 2226 (Krueger-FL); RS lessons 0045 (Dickson); SP/EG vocals, piano IS, pips 0000, nx, gud sig (Gavara); 0100 (Jones-MS, Hardester); Beatles 0245 (Plum-NJ); nx briefs 0406, 0425, mentions of FM (Johnson-TX); ID 0459, pips, nx (Rigas-IL); "R. Rebelde, La Habana" ID 0510, good mx (Niekamp-MN); ID 0501 (Field-MI); 0725 (Alexander-PA); 0958-1007, just what we need on 60 meters (Cunningham) and 1030 (Pappas-FL); ID 1225 (Murff).
- 5025 PERU R. Quillabamba, hrd by several, but in 1st half of December, before Rebelde moved in. 40's tunes 0233 (Hankins-PA); IDs 1030, mx, windy flutes, fair and fading (Bobb-MN); 1105 with ID, fgys, sounded like nx later (Valko); LA pops at 0100, EZL mx, fairly hvy static (Dickson); talk over OA mx, 2351, mentions of San Martin, faded by 0007 (Bolland).
- 5026 BRAZIL R. Jornal da Transamazonica, seemed sports event 0340 12-23, two anncrs, spot IDs, TCs, promos, hrd past 0635, pretty good signal (Jordan).
- 5026-5032 UGANDA Kampala, hrd s/on arnd 0400 with local nx in EG 0407 (Johnson-TX); Swahili 0406, ads, lite mx, good sig (Wood-HI); EG talk 0455, poor sig (Lineback-TZ); Perry Omo's "Silent Night" 1955, pop mx, very poor signal (Daly-NY).
- 5030 CHINA CPBS here now, hrd 1502-1555 1-2, CH opera, CPBS IDs 1530, 1545, various other kinds of mx, 1555* after two IDs. Used to hear Kuching here, but now it's CPBS (Sharpe-CA).
- 5030 PERU R. Los Andes, 1025, "Buenos Dias Peru y America," canned ID, call, fg, into "Manos que Trabajan" prgm 1033. Fair with Rebelde splatter 1-2 (Pappas-FL).
- 5030 VENEZUELA R. Continente, 0300-0330 12-28, many IDs, EZL mx (Dickson).
- 5035 BRAZIL R. Aparecida, EZL and clas.mx, 0045 12-2, good with flutter (Dickson).
- 5035 CENT.AFR.REP. Bangui, hillife 2249, closing amnt 2254, NA, 2257* (Cunningham); FR talk, mx, poor 0500 12-9 (Lineback-TX); poor 0540-0550, man in FR, 12-24 (Swarngen-NC).
- 5039 SUDAN Omdurman, local lvl 0425 12-12, 6 pips 0430, ID, sounded like letterbox 0454 (Valko); prob. them 0510, ME mx, apparent AR talk, but late for this one (Bolito).
- 5040 CHINA Fuzhou, M&W in CH at 0951 12-6, low key mx 0957, pips, ID 1000 (Bolland-FL).
- 5040 COLOMBIA R. Cinco, rock mx 12-2 0140, strong (Dickson); NY eve prgm 0546, noise, mx (Jones-MS); presumed them, Xmas eve mass 0435, some pops during silent parts! (Valko).
- 5040 ECUADOR LV del Upano, 0425 12-25, Xmas prgm, exc sig, many IDs (Field-MI).
- 5045 BRAZIL R. Cultura do Para, 0003-0045, nx, full ID 0031, mx, good 1-5 (Bolland-FL); EZL mx 0030 12-28, ID 0033, several others, loud and clear (Dickson).
- 5047 TOGO Lome, 2247, chimes 2300 (Bolland-FL); past 0045 12-24 (Daly-NY); hillife mx, ID, NA, to 0002* (D'Angelo-PA); nx, jazz, 0620-0640, no ID hrd but it fits (Hill).
- 5050 ECUADOR R. Jesus del Gran Poder, relig.prgm 0435 1-1 (Field-MI); 0436, on late Xmas eve (Johnson-TX); quiet mx 1005, amnt, then HC NA and religious talk, fair sig (Bobb-MN).
- 5050 TANZANIA Dar es Salaam, man with psble nx 0305 12-5, hillife mx, poor on //4765 (Cucura); tent. them at 0330 1-4, African mx, weak, no ID noted (Field-MI).
- 5052 SINGAPORE R. Singapore, gal anncr in EG 1300, pips, TC, ID, etc, 1-1 (Bolito).
- 5055 COSTA RICA TIFC, EG ID 0325, relig.prgm, good sig (Wood-HI); EG, 0355* 12-14 (Feeley).
- 5055 ECUADOR R. Catolica Nacl, varied mx 0115 (Dickson); full ID 0048 (Bolland-FL); *1106 w/ relig.mx, NA, ID (Alexander-PA); talk 1205, relig.mx, fair 12-14 (Bobb-MN).

- 5055 FRENCH GUIANA Cayenne, *0900, IS, NA, pops, //6170; nx 0938 (Alexander-PA, Bolland-FL).
 5055 SWAZILAND TWR, after TIFC s/off, IS, EG ID, GM relig-prgm 0400 (Alexander-PA, Feeley, Wood-HI).
 5057 ALBANIA Gjirokaster, local mx 0422, fair, //5020 (Daly-NY).
 5061 ANGOLA Weak 2150 12-30, man in PT; noted //Luanda-5333 at 2205, still in parallel at 2215; unable to confirm location or get solid ID. Huambo used to be here (Bolitho).
 5066 ZAIRE R. Candip, 0357, mx, ID 0403 (Forsgren-WI); tent. them 0400, no ID (Field-MI).
 5095 COLOMBIA R. Sutatenza, SA mx 0124, ID (Bobb-MN); amnt for yr-end fiesta 0257(Niekamp-MN).
 5110 UNID. ME mx here 2011, then off. Saudi Arabia has been here before (Bolitho).
 5112 PERU R. Eco, good 0045, ID 0103 (Dickson); ads 0952, mx 1119 (Bolland-FL).
 5145 PERU LV de Tawantinsuyo, talk, 1strn greetings, no ID, 1130 12-31 (Sams).
 5191 PERU R. Nuevo Continente, vy poor 0151 (Bolland); ID 1000, off 1004 (Murff).
 5192 ANGOLA EP do Mexico, past 0130 NY eve (Reinstein); ID 2200, gone by 2225 (Bolitho).
 5199 PERU R. Bagua, campo mx 1013, full ID, then 2d ID, back to mx; good lvl (Valko).
 5200 CLANDESTINE VoNat'l Army of Dem.Kampuchea, decent 1115-1207, peaking 1150 (JB).
 5275 PERU R. San Juan de Chota, ID 2342, 0016* (Field-MI); NA to 0100* (Krueger-FL); ID 0030, 0034, LA mx (Dickson); 0045 with TC, IDs, campo mx; off 0050 after two IDs (Bolitho).
 5286v CHAD R. Mondou, *0510, drum IS, NA, FR ID, mx (Valko); 0520, hilife mx (Bolitho).
 5333v ANGOLA R. Nacl, pops 0136 (Bolland); ID 0518, fading by 0530 (D'Angelo); drums, poor 0535 (O'Brien); on 5295 2124, on 5333 at 0222 recheck, evidently on all nite(Reinstein).
 5360 PERU R. Vision, lively LA mx 0110, pretty good sig (Dickson); 0340-0400*, ID, NA (Alexander-PA); Indian-type singing, man anncr, make it tentative (O'Brien-VA).
 5444 PERU R. Imagen, live sports to 0130 (Krueger-FL); no ID, but vy strong 0347 (Bolitho); mx 0530, ID (Field-MI); presumed them arnd 1030, mx, TCs, upbeat prgmng (JB).
 5475 GUINEA BISSAU R. Nacl, mx 2210, ID, NA, 2355* (Field-MI); VG past 0100 NY eve(Reinstein); *0556 with drum IS, ID, NA, PT talk, poor sig 12-25 (Rigas-IL).
 5555 CLANDESTINE R. 15 de Septiembre, pol.talk 0005 12-13, many IDs, fair sig (Bolland-FL).
 5618 PERU R. Ilucan, non-OA prgmng 1105, vy weak (Pappas-FL); ads 1115, LA mx, ID (Sams); midst of OA NA 1143 12-30, mx with ID on top, canned ID, mx, mensajes (Bolitho).
 5802 PERU R. Acunta tent., SP talk 1148, drums, flutes, tent.IDs, OA mx (Bolitho).
 5816 PERU R. LV del Atlantano, OA mx 1013, amnt by man, TCs, canned ID, basey audio(Valko).
 5875 SAUDI ARABIA BSKSA, 0355 AR ID 12-26; had been on 5870 for a while (Wood-HI).
 5905 USSR R. Kiev, IS 2200, s/on with GM ID, nx, cmtry, 12-23 (Frath-FL).
 5910 BELGIUM BRT, fairly good in EG 0030-0110 (Blanchette-FL, Swaringen-NC).
 5920 USSR RM WS, FE site, EG 1607, "Newsweek" 1-4 (Park-HI).
 5930 CZECHOSLAVAKIA Prague, hrd in EG 0100-0145 (Levison, Hunt, Cinert); SP 0415 (Kociela); EG agn 2000, nx, mx (Alcorn-NJ).
 5930 USSR Mayak prgmng, RS 1450 1-4, nostalgic mx, IS, pips, nx, //4485 (Park-HI).
 5936 COLOMBIA Caracol Carreno, Caracol ID 1059, into HJ mx (Murff); on 5940 lately (JB).
 5945 UZBEK SSR Tashkent, EG 1400-1430, mx, talk; Hindi 1430, sig dropped (Zilmer, Park-HI).
 5950 GUYANA GBC, 1002-1019 12-15, nx, wx, TC, Hindi mx, local ads, hvy splatter (D'Angelo-PA).
 5945.5 PERU R. Arequipa, LA mx 0240 1-1, ID, TC 0245, back to pops (Bolitho).
 5955 HOLLAND RN-Lopik, AR 1700, //9895; will switch to Flevo Jan-Hark (Wood-HI).
 5955 SWAZILAND TWR, fair-poor 0414 1-4, GM hymns, //5055 (Park-HI).
 5960 CANADA RCI, EG hrd 0020-0130 (Hankins-PA, Dillon); FR 0145 (Hawk); EG 0300(Park,McKellar)
 5965 BRAZIL R. Guaiba, futbol 2340 (Forsgren-WI); *0848, ID, marimba-like IS(Alexander-PA).
 5965 MALAYSIA RM, Malay nx 1530, pops, wx, TC, Koranic readings (Sharpe-CA).
 5965 NIGERIA Jos, EG nx by man 2104 12-30, ID 2106 as R. Nigeria (Bolitho).
 5970 PERU R. El Sol, mx 0256, quick ID 0301, gone 0348 check(Bolitho); exc.DJ 1035(Alexander).
 5975 COLOMBIA R. Macarena, ID, vocals, 0355 (Green); talk 1120, ID, TC, strong (Bobb-MN).
 5980 SIERRA LEONE Freetown, ID 2000 (Bolitho); big sig to 0009* NY eve (Reinstein-FL).
 5980 TAIWAN Voice of Asia hrd in EG 1100-1108, nx, talk on arms race (Murff-NY).
 5980 USSR RM, FE site, EG 0645-0700 in WS prgmng (Sharpe-CA, Park-HI).
 5982 MEXICO XEUJ, 1030-1100 12-6, Mexipops, frequent IDs, requests for ltrs (Murff-NM).
 5985 USA VoFC prgm over WYFR, EG 0200 (Alcorn, Levison, Kociela); WYFR EG 1318 (Park-HI).
 5990 ROMANIA Bucharest, IS at *0400, EG ID, stilled EG usage, fair sig (Wood-HI).
 5995 AUSTRALIA RA, 1130-1400, Queen's Xmas msge, nx, big band mx(Park,David,Baitzel,Dickson).
 5995 MALI Bamako, hrd in FR at 2239, //7285 1-5 (O'Brien-VA).
 5995 USA VOA, EG 0215 "Focus" (Hawk); jazz 0300 (Bonnet); wrld nx 0633 (Park-HI).
 5995 USA WYFR, "Fam Bible Reading Fellowship" 1233 12-29, relig.mx (Park-HI).
 6000 AUSTRIA Vienna, EG at 0130 (McLemore-FL, Hunt, Zilmer, Hankins-PA); GM 0200 (Trotto-FL); EG 0345 (Green); GM nx 0400--it's Moosbrunn now, not Aldrans (Wood-HI).
 6000 BRAZIL R. Inconfidencia, Br.mx 0810 12-7, man anncr, ID 0814, fair sig (Summers-PA).
 6005 ASCENSION IS. BBC, "The World Today" at 0325-0329, 12-20 (Hawk).
 6005 CANADA CFCX-Montreal, mx, sports 1250 (Swaringen-NC); pops, ads, 1500 1-6 (Cobb-ME).
 6005 SOUTH YEMEN Aden, AR nx, cmtry, mx, 0330-0345 12-20 (Hawk).
 6010 BELGIUM BRT, IS at *0800 12-13, DT ID 0815, nx; to Europe, fair (Wood-HI).
 6010 PERU R. America, M&W 0853, ID 0855, OA mx, pops past 0905 (Bolitho).
 6010 SOUTH AFRICA R. RSA, EG interview 0220 12-29, "Africa Today," nx in brief (Dillon-DC).
 6010 USA KGEI, EG ID 1100 12-7, into RS programming (Alexander-PA).
 6015 NICARAGUA Voice of Nic, EG 0145 (Dickson); 0320 (Field-MI).
 6025 BOLIVIA R. Illimani, ID 0150, //4945 noted under HJ (Bolitho); flute 0947, ID (Bobb-MN); beautiful Andean flute mx 1015, full ID 1030, 3 minutes faster than WWV (Niekamp-MN).
 6025 HUNGARY Budapest, Hungarian mx 0140, dialogue, nx, 1-4 (Levison).

- 6030 PHILIPPINES VOA, Indonesian nx 1403, more talk; good, in the clear (Palmer-WA).
- 6035 USSR R/S Pac.Ocean, RS ID 0815, talk, RS pops, EG world nx 0850-0855 (Sharpe-CA).
- 6040 FRG DW, German Top 40 at 0120, gal DJ, strong, //6085, 6145 (Cinert).
- 6045 AUSTRALIA RA, nx 0909, "Calling Antarctica"(Park-HI); nx 1400 (Daly-NY).
- 6045 BRAZIL R.Cl. de Paranaense, talk, local mx, 2339 12-28, poor overall (Zilmer).
- 6045 SWEDEN Stockholm, EG 2300, pops, talk, IDs, good sigs (Blanchette-FL, Swaringen-NC).
- 6050 USSR RM.WS, FE site, poor with EG "Soviet Way of Life" 1519 (Park-HI).
- 6055 CZECHOSLOVAKIA Prague, EG cmtry by man 2130-2200, good signal 12-27 (Reed).
- 6055 JAPAN NSB-Tokyo, fair, talk by man, 1445-1500 12-28 (Reed).
- 6055 PERU Tent. R. Continental, OA mx, male anncr, TC, ID 1115, Arequipa ad (Bolitho).
- 6060 ARGENTINA RA.E, local EZL mx 0802 12-30, light jazz, torch mx, //9690 (Park-HI).
- 6061 PERU R. JSV, talk 1116, mentions of Huanuco, quick JSV ID, LA mx; 12-31 (Bolitho).
- 6065 SOUTH AFRICA R. RSA, EG ID 2200, FT nx, talk, mx, to Brazil (Zilmer).
- 6065 SWEDEN Stockholm, Swedish ID 0600, HS nx, clear when WYFR off at 0600 (Wood-HI).
- 6065 USA WYFR, 2335 (McKellar); 0712 (Park-HI); VoFC EG, 0230 (Bonnet-IN, Kociela).
- 6070 CANADA CFRX-Toronto, 0103 (Bolland-FL); 1430-2330 (Dickson, Brouillette, Swaringen-NC, Stuart-OK, Blanchette-FL).
- 6075 HONDURAS LV del Junco, 0315-0355 12-9, ballads, ads, IDs (Alexander-PA); ditto 1210, also full ID 0032 (Forth); fair 2031-2100, IDs during songs (Reed). GMT?-JB.
- 6075 PORTUGAL Lisbon at 0600* after EG to WCNA; fair, QRM from DW in GM (Wood-HI).
- 6080 CANADA CKFX-Vancouver, "World Report" 1610 12-14, QRM, static (McKellar-CA).
- 6085 ALASKA KNLS, oldies 0750 during EG, mid-season move from 6170 to avoid 6175-BBC(Wood-HI).
- 6085 COLOMBIA Ondas del Darien, LA pops 1130 12-24, TCs, ads, ID by man (Prath-FL).
- 6090 GUATEMALA TGMUE, relig. prgm 0230 (Jordan); EG relig.prgm 0345, ID 0348(Cunningham).
- 6090 LUXEMBOURG R. Lux, ID 2215 12-27, GK talk by M&W, soft mx, fair signal (Reed).
- 6100 YUGOSLAVIA Belgrade, Pristina/Novi Sad regl ev, 2100-2130 1-3, 15 m. ea.(Swaringen-NC).
- 6105 MEXICO "Su Pantera," tough copy 0455 12-25, talk, IDs, anmts, very poor (Jordan).
- 6106 BOLIVIA R. Panamericana, non-stop upbeat LA mx 0250, mx slogan 0256, 1-1 (Bolitho).
- 6110 MALTA R. Mediterran, FR/EG 2130-2230 (Dillon); EG 2328* (Swaringen); 2308 (Feeley).
- 6110 PHILIPPINES VOA, EG to SEA 1620, special FG nx, "People In America" (Clifford).
- 6117 COLOMBIA LV del Llano, LA pops 0515, IDs (Jordan); strong 0735, man anncr (Summers-PA).
- 6115 CUBA RR WS relay via Havana, 0135 (Brouillette), 0430 (Jordan), 1131 (Dillon-DC).
- 6115 MEXICO XEUDS, pops 1722, ID by gal 1737, symphony to 1800, ID, Xmas mx 1935 (Clifford).
- 6115 PERU R. Union, booming in 0908, OA mx, ID, TCs, some splash from 6117 (Bolitho).
- 6120 NICARAGUA R. Zinica, ID 0502 12-21 (Field-MI); canned ID 1135, TC, live ID (Valcko);
 vy good with pops 1140 (Niekamp-MN); ID 2012, mx, talk by man (Reed).
- 6130 SRI LANKA? 1205-1240, Ind mx, Koran 1235. Is this SLBC? (Swaringen-NC).
- 6130 USA VOA, pop mx 0040 12-20, discussion abt R&N, nx 0100, "Rpt to Americas"(Hankins-PA).
- 6135 BULGARIA Sofia, *1700 with AR ID 12-13, into nx; good sig (Wood-HI).
- 6135 SWITZERLAND SRI, EG 0145, nx (Dill-PA); SP 0230, vy poor (Brouillette); EG nx and Swiss
 SW Merry-Go-Round, 0145 (David); Italian 0406, mostly talk, good to 0415* (Trotto-FL).
- 6137.5-6139.8 PERU/BOLIVIA confusion. Valco rpts R. Colonial, Peru, huaynos 1102 12-14,
 ID and 49 mb fqy, TCs, mentions of N. Cajamarca; Murff also rpts them 1135 12-19,
 relig.prgm, hymns, ID 1142. Field, Valco, Bolitho rpt R. Santa Cruz, Bolivia arnd
 0930-1010, IDs, nx, Andean mx. Jones-MS also rpts presumed Santa Cruz at 1040,
 mentions of Sta. Cruz, but mx sounded Peruvian. Bolitho also rpts R. Colonial on
 12-30 at 1134 with ID, mentions of San Martin, but R. Continente, another Peruvian,
 12-31 at 1204, IDs, and apparently same stn as day before.
- 6140 CUBA Havana, EG 0100 (Jordan), 0300 (Bonnet-IN, Hunt, Dickson).
- 6140 ENGLAND RCI relay, EG nx 0645, //9760; only prime-time RCI rcpm is via BBC (Wood-HI).
- 6140 PERU R. Huayllay, mx prgm at 0900 on 12-14, several IDs noted (Field-MI).
- 6145 USSR RM, IS 1230, CH prgm, talk by M&W (Park-HI).
- 6150 COSTA RICA R. Impacto, slow SP mx 0000 12-15 (Feeley); good-fair 0245 12-5, pop mx,
 IDs, nx 0300 (Cinert); interviews 1110 12-29, anti-Sandinista, nx 1200 (Dillon-DC).
- 6155 AUSTRIA Vienna, 4-lang.ID 1656 12-27, IS, GM at 1700, nx; fair w/FEN QRM (Wood-HI).
- 6155 BOLIVIA R. Fides, flute mx 0910 12-27, ID 0911 (Field-MI); ditto 1000-1011 12-31,
 couple of IDs; looking for Pucallpa (Valco). Sounded like a Bolivian, 1020 1-1, NY
 greetings, faded early, weak 1102, too poor to ID (Bolitho).
- 6155 JAPAN FEN carrying AFRTS football, 1825 on 12-29 (Park-HI).
- 6155 SINGAPORE R. Singapore, Malay talk 1046 12-11, pop mx, fair signal (Bolland-FL).
- 6160 CANADA CKXN-St.Johns, 1130-1200 12-29, nx, talk, wx, sports (Bonnet-IN).
- 6165 NETH.ANTILLES El-Bonaire, 0230-0315 (Hawk, Hunt), 0535 (Hankins-PA, Park-HI).
- 6170 FRENCH GUIANA Cayenne, nx 0936 12-14, fair signal, //5055 (Bolland-FL).
- 6175 ANTIGUA BBC, 0200 (Dillon-DC), 0230 (Dill-PA), 0543 (Hankins-PA).
- 6175 COSTA RICA TIPC, SP relig.mx prgm 1325 12-16, full ID 1330, in //FM stereo (Prath-FL).
- 6175 FRANCE Paris, *0356 ID, NA, ID, FR nx, BBC-Antigua QRM till 0400 (Wood-HI).
- 6180 GUATEMALA VoGuatemala, EG 2320 12-17, ID, into French 2330 (Sams).
- 6188 WEST IRIAN RRI-Manokwari, ID 0914, Koran, then varied mx; blocked by OA 0940 (Pappas-FL).
- 6189 PERU R. Oriente, 1002 with s/on anmts, OA NA, five IDs (Bolitho); CA mx 1040, yipping,
 bird chirps, DJ (Alexander-PA); huaynos, OA mx, 1145 (Murff-NM); exc 2232-2330, SP pops,
 ballads, many IDs and TCs (Krueger-FL).
- 6190 LESOTHO BBC IS *0355, Ascension ID, EG nx, good sig 12-20 (Wood-HI). 73- 



LOG REPORT

section C

6200 to 11699 kHz

Editor: David L. Walcutt, 211 West 58th, Apt. 36-F, New York, NY 10019

Bob Palmer sends information about a club in Japan which is another source of information on Soviet transmitter sites. This is URSC ("Orbita"). Bob writes: "Listeners who want to track what's going on in the USSR are well advised to contact Mr. Kelsuke Oda, c/o URSC, P.O. Box 14, Gifu-kita, 502, JAPAN. They publish, also, an outstandingly complete handbook on USSR DXing. Best source of info on current skeds, sites, powers, languages et al. for USSR xmters that I've ever run across." Citations to "URSC" (see 7200, 7290) refer to this club. Thanks, Bob.

- 6200 NICARAGUA R. Sandino; 0545-0553 SP, mx & vocals, HCJB QRM (Paszkiwicz 1/1, Hankins)
- 6205 ECUADOR HCJB; 0230-0830 RS, EG, etc., to USSR, Europe; /9745 (6 reporters).
- 6205 GREECE VOG; 0110-0135 GK, folk mx, nx (Swaringen-NC 12/25, Stuart 1/6).
- 6215 LEBANON Voice of Hope; 1948 EG w/MOR gospel mx, 2002 ID as "King of Hope" then full carted ID as well (Bolitho 12/30); 2140-2208* EG, reading of Christmas story from Bible, carols; "It just turned December 25 here at the Voice of Hope in the Valley of the Springs!... We're going to say 'Goodnight' to you, from Johannesburg up to Sweden & to all of you from Saudi Arabia & Afghanistan all the way to the United States. We wish you a very, very merry Christmas!" then into s/off anmts (Meyer 12/24); 2206 EG, s/off with address in Israel, ID; RTTY QRM (Paszkiwicz 12/24).
- 6225 GREECE VOG; 2335-2350* EG, nx, ID, Greek mx, s/off (Jones 12/21, Cobb-ME 12/18).
- 6230 CLAND. R. Monimbo; 0006-0045 SP anmts with lots of soft Spanish mx, ID's as "La Voz de Democratica Libertad Radio Monimbo;" ment. Nicaragua etc.; v. strong (Gavara 12/25). 0048-0100 SP, L.Am. mx sort of calypso-like one tune after another; ID Hankins-PA 12/20); 0258-0305 SP, romantic pop ballad, ID 0300, marimba mx (Niekamp).
- 6240 PIRATE Voice of Tomorrow; 2202-2237* EG, talk about Blacks, Jewish control of media; 2230: "Breaking through the wall of censorship to bring the truth to America, this is the Voice of Tomorrow." Gave address Box 20039, Ferndale, MI 48220; ann'd freqs 1616, 6240, 7410, 15040; mx Tomorrow Belongs To Me & wolf cry at s/off (D'Angelo 12/15); 0110-0202* ID, address, speech on immigration, s/off w/"Tomorrow Belongs To Me" & howling wolf & drum IS; very good signal (McLemore 12/16); 0324-0352 racist speeches, talk on "The Third Wave", many ID's; s/off with "TBTM" (Tutak 12/16).
- *6243 PERU Radio Municipal de Calca; 1023-1035 SP, campo mx w/vcls; M between songs w/TC's ID's & ments of Municipal de Calca. Heard every day but never good enough for ID until now; same ancr every AM; glad to finally get it!! (Valko 12/14). 1056-1107 SP w/Peruvian mx, slogans & long talk by M; caught ID at 1107 (Bolitho 12/31).
- 6245 PIRATE R. Angeline; 2259-2348 mx box rendition of "Send In The Clowns" until phoney UK-accented M ID at 2324, pop mx, fake ads for insurance company; apparently the same program tape that appeared last January as heard by others (Krueger 12/31).
- 6250 EQUATORIAL GUINEA R. Nacional, Malabo; 2120-2200* SP, African mx, M ID & closing anmts, orchestral NA (Paszkiwicz 12/25, Swaringen 12/16, Krueger 12/16).
- 6250 KOREA PDR Pyongyang B.S.; 0825 KOREAN angry man (Park 12/11).
- 6252 VATICAN VR; 0645 Latin Mass (Hill 12/30); 0615 IT Xmas pgms, "Buon Natale" (wood 12/19); 2221-2230 IT, M&W with music, ID (Bobb-MN 12/17).
- 6260 CHINA Quinghai PPBS, Xining; 2356-0003 fair under 'pulsing' FAX with CH M&W, slow time tones, news (Krueger 12/31).
- 6260.3 UNID possible Pakistan; 1208-1301 good w/Islamic subcontinental mx, Urdu or similar M&W w/frequent mentions of "Pakistan", news 1230-1235, Qur'an 1235-1239 then traditional vocals; ID unclear though certainly there at 1300 (Krueger 12/28).
- 6275 PERU Radio Satelite; 0127-0136 SP with folkloric tune, into "Happy Birthday" then a pgm of anmts & campesino music past 0136 (Bolitho 12/30). Surely a typo for 6725!
- 6297 PERU Radio Chota; 1132 w/Peruvian mx, ID as "en Radio Chota" by M DJ, into ad string at 1154; recheck 12/14 revealed fqy dominated by LV del CID splash (Pappas-FL 12/11).
- 6299 CLAND. LV del CID; 0305-0325 SP, mx w/correspondents' reports, ID by M "R. Camilo Cienfuegos", comedy pgm (Dillon 12/29); 1239-1242 SP, "Momentos Inolvidables" pgm of older L.Am. vocals; M DJ with ID; fair (Brouillette 12/15).
- 6323.6 PERU Estación "C"; 0045-0056 bouncy, almost Colombian type vocals, SP "Jingle Bells" rendition into Feliciano's "Feliz Navidad" w/M ID & promo atop (Krueger 12/21); 1152-1200 SP, M ancr, pgm of LA pops, frequent ID's, ads and talk (Murff 12/19). 1117-1130 huaynos noted, ID "Desde Moyobamba.. capital de.. Estación C" (Bolitho 12/29).
- 6364 PERU Radio Moderna; 1058 SP giving New Year's greeting, Peruvian mx filler; caught the ID as "radio Moderna" at 1136 - this does not agree with JCC info! (Bolitho 1/1).
- 6480 KOREA REP. RK; 2040 Korean, Christmas greetings; good (Wood 12/24).

- 6556 CLAND. R. Venceremos; 0020-0148* SP, anti-Duarte speeches; impassioned monologues, inspiring mx, 3-digit number groups (Dickson 12/13, Bolland 12/30, Jordan 12/15).
- 6560 CHINA R. Beijing; 1045 Russian, W and patriotic mx; jammed (Park 1/2).
- 6567 KOREA DPR R. Pyongyang; 1805 FR nx (Rigas-SEOUL 12/16); 2040 GM rev. tlk (Wood 12/24)
- 6600 KOREA DPR KCBS; 0732 Korean, angry talks & stirring mx by choir (Park 1/4).
- 6693.6 CLAND. R. Farabundo Marti; 2117-2130 SP, aggressive talk, full ID (Bolland 12/22).
- 6725 PERU R. Satellite; 0219-0233 OA mx, ID's, TC's, ad for soft drinks (McLemore 1/1); 0401 SP with ID and OA mx through noise (Forth 12/9).
- 6974p CHINA Nei Menggu PPBS, Hohot; 0011+ presumed the one w/strong signal despite UTE QRM & some polar flutter; exotic CH vocals & string mx (Reinstein 12/24).
- 7065 ALBANIA R. Tirana; 0000 EG, mx, "Our Beautiful Language" (Blanchette-FL 12/9).
- 7105 MALTA DW relay, Cyclops; 1700 EG ID, into Turkish, nx; good (Wood-HI 12/13).
- 7105 SPAIN R. Nac./Spanish F.R.; 2300-2330 EG, ID, nx, wx, ID; fair (Trotto 1/8).
- 7110 ETHIOPIA RVRE; 0405 Amharic ID, nx, mentions of Addis Ababa; g (Wood-HI 12/26).
- 7120 IRAQ V. of the Masses; 2145-2205+ AR mx to 2200, Big Ben type chimes <Tinkly Ben-ed> low-voiced M ancw w/ "Sawt ul-Jamaheer" & into AR nx w/ lead item datelined "El Qahira"; //7130, 9690, 9745. Thanks Tuchscherer tip! (Reinstein 12/13).
- 7130 TAIWAN VOFC; 0900 Mandarin, NA, ID "Zu yu chung guo chi sheng.. Taiwan (Park 12/28).
- 7160 MONACO TWR-Monte Carlo; 0725-0800 EG, transcribed Bible pgms (Dill-PA 1/9).
- 7160 OMAN BBC W.S., Masira; 1725 EG, "new Ideas" etc. (Park-HI 12/12).
- 7165 AUSTRIA ORF; 1435-1450 IS followed by waltz mx (Bobb-MN 12/16). Language?? -ed.
- 7165 USSR RM; 2050-2057 EG, good signal beamed to Great Britain & Ireland (Hill 12/25).
- 7170 NEW CALEDONIA R. Noumea; 0645 FR ID, songs in English; poor (Stuart 2/19).
- 7172a ANGOLA ER do Lobito; 0505-0530 PT, electronic mx 0515 into ID plus anmt & promo with reverb effect (Jordan 12/13); 0507-0530 PT, nx, mx, cmntry (Hawk 12/13).
- 7185 USSR RM; 1830 EG, "Listener's Request Club" best sounds of 1984 (Alcorn-NJ 1/5).
- 7200 SOMALIA RM; 0400 AR, ID "Huna Muqdishu", nx; one of two AR ncasts daily (Wood 12/16).
- 7200 USSR RM; 9115 RS, URSC's "Orbita" bulletin show this as 50 kw. Vladivostok Regional with same xmtr as 11990; very powerful here around 1600 (Palmer 1/3).
- 7204.8 ZAIRE R. Lumbashi; 0358 IS, 0400 NA, then chorus w/traditional instruments, s/on anmts given rapidly by M including ment. of Lumbashi; tnx Wilkins (Johnson 12/18); 0355-0410 IS, NA, ID; possible prayer then hilife mx (Murff 12/11). 0400-0445 FR, national anthem at 0400, a lot of African mx, ARO QRM (Swaringen 12/24).
- 7205 AUSTRALIA RA; world nx ready bw W, //9580 (Johnson-TX 1/4).
- 7225 RWANDA DW, Kigali relay; 0430-0515* EG, ID for African Svc., nx (Trotto-FL 12/17).
- 7235p INDIA? 1321-1326 with Indian ragas likely AIR's Vividh Barati svc. (Palmer 12/11).
- 7255 BOTSWANA RB; *0350+ IS, ID, NA, local mx (D'Angelo 12/9, Summers-PA 12/24).
- 7260t INDIA AIR; External Svc., 1238-1315* Tibetan?, chanting & strange mx undoubtedly beamed for Tibet; since my previous report I have become convinced this is not R. Ulan Bator, cf. December LN; never any s/off anmts & carrier remains on. AIR, Vividh Barati: 1348-1445+ Punjabi??, subcontinental mx tho' more Arab-sounding, not Hindi or Arabic tho many "...yyah" endings as in Arabic; I am pretty sure this is the 250 kw. xmtr at Aligarh because during many days of monitoring I noticed the xmtr does not go off after 1315; at 1435 V.B. ID, so apparently V.B. is carried in other langs than Hindi; how about someone else trying this one? (Palmer-WA 12/11). IRAQ??
- 7275 UAE R. Dubai; 0339 EG, nx, address (Trotto 12/16). I believe this is now 7310 -ed.
- 7290 SAUDI ARABIA BSKSA; 0400 AR, single time pip, Riyadh ID, march, nx (Wood 12/24).
- 7290 USSR 0130 Golos Rodiny, 0200 R. Rodina; M5 via Taldom (site per URSC); many //s found; Dave, any clue as to where Taldom is? (Reinstein 12/19). Not IPRB site; still looking.
- 7295 INDIA AIR-Aizawal; carrier on as early as 1117 hetting Malaysia; AIR IS 1128, opened 1130, all Indian mx with talk here & there by gal; c/sing anmt 1214 and 1215*; nice surprise on a very good Asian morning, AIR built up as Malaysia deteriorated (Berg).
- 7340 USSR RM; 1005 JP ID "Kochiwarra Moscow hose"; cmnt on U.S.; //5960, 6020, 6050 (Park).
- 7345 CZECHOSLOVAKIA RP; 0300 EG, nx, peace movement; exc. (Kociela 12/15, Dickson 12/10).
- 7355 USA WYFR; 0453-0455 EG, slow Bible reading, rel pgm (Park 12/17, Kociela 12/9).
- 7380 PIRATE "KROK"; 2230-2250* equipment test, 50's rock; strong signal (Plum 12/16).
- 7383 PIRATE R. North Coast Int'l; 2112-2136* mellow rock mx, gave Moorhead address; mx by Yes, Neil Young, Todd Rundgren with DJ Captain Willie; ID's, s/off with "O Canada" Canadian NA (Plum-NJ 12/16, Tutak 12/16).
- 7386.5 PIRATE Zeppelin Radio Worldwide; 0302-0330*, Christmas skits, mx from Beach Boys, theme from Goldfinger, & others; very weak with deep fades (Reinstein 12/25).
- 7400 CLAND. LV del CID, R. Camilo Cienfuegos; 0338-0405 SP, current rock hits & LA mx, ID (Niekamp-MN 12/31); 0457-0515 SP, ID by M, ballad, usual xylophone notes then ID, march mx, M&W talks (Jordan 12/13); 1050-1135+ many ID's, usual CID pgms, strong signal but garbled audio; //6299.5 flagship station. More often than not the CID outlets on these freqs & 11679.5, 9939.5, and 7352.5 are all IDING as R. Camilo Cienfuegos (Reinstein 12/31).
- 7400 PIRATE "KROK"; 2230-2310 w/"equipment check"; "Rock of the Oldies", QSL to Box 245, Moorhead, MN 56560 with 3 20¢ stamps (Kuney-MI 1/1).
- 7410 PIRATE "WMTV"; 0434 Floridian, logged after advance tip on "DX Newsline"; ment. Box 1945 (O'Brien 12/15); 0502-0507* "Just Between You & Me", ID's, announced Delray Beach Florida address; very good signal (McLemore 12/15).

7412 INDIA AIR, Delhi; 1655 Hindi, sitar mx; good (Wood-HI 12/13).

7412 ISRAEL Kol Israel; 0100-0125 EG to N.Am. (5 reporters); 0500 EG pgm (Gray-MI 12/10).

*7425 CLAND. Radio Iran; *0120-0330* exc. level, presumably from the 500 kw. Iraqi facility w/test tone to 0130, IS, ID, "Inja Radyo Irana", Qur'an at 0132 followed by world nx in Farsi at 0135 with stories datelined from Teheran, Kabul, & Moscow; IS again at 0224, ID & into Persian mx; great signal today (Reinstein-FL 12/25). Loud 1/23 too!

7425 PIRATE R. Sinewave; 0120 EG, rock mx, went to USB at 0125; ID 0126 (Jones 12/24).

7425 PIRATE R. Sound Wave; 0127-0130* very strong & clear signal, USB. Rock mx, s/off amts claiming this as a live bcst. QSL to East Moline address (Reinstein 12/24). 0705-0720* EG, in USB with rock mx, ID; 111. address for reports (Alexander 12/25).

7425 PIRATE "WMAD"; 0607-0636* EG, "Gumpy & Ernest Show", novelty tunes inc. "Tie Me Kangaroo Down, Sport"; Hilo address, fake ad for instant dinners (McLemore 12/22).

7425t PIRATE "KLS"; 2212-2230* EG, rock mx, police siren; "Station KLS"; (Cobb 12/30).

7425 PIRATE UNID. RELAY; 0710-0833* EG, KADF-FM 88 ann'd they were a volunteer-community operated station broadcasting from Little Rock, Arkansas on 88.3 FM and someone was picking up their xmsn & relaying it on shortwave. Said they were getting phone calls from all across the country; 100 kw. on Crystal Mountain (Alexander 12/8).

7426.5 PIRATE GAN - Global American Network; 0625 EG, very professional-sounding with talk about the causes of QRM, Xmas mx, jingle ID's, features (Alexander-PA 12/25).

7427.3 PIRATE "WYMN"; 0618-0744* EG, "Women's Radio for the feminist world", W DJ, mx featuring female artists exclusively; Hilo address (Alexander 12/15).

7430 PIRATE "KRZY"; 2330-0006 Capt. Crazy playing bluegrass mx; reports to Box 982 Battle Creek, MI; will start regular broadcasts Saturday evenings (Kuney-MI 1/10).

7430 SYRIA SARBS; 2135-2330* usual powerhouse signal; nice segments of AR mx, nx at 2215, many ID's (Reinstein 12/13); 2310-2333* AR, mx, Qur'an, ID, NA (Swaringen 1/2).

7435 PIRATE "KRZY"; 2233-2346 Capt. Crazy & Joe Cool w/mailbag, comedy bits (McLemore 12/23); 2254-2337 conversation between a man & a young boy, mailbag (Gavarras 12/23).

7440 PIRATE "KRZY"; 0510 Capt. Crazy releases the neutron bomb; old pops (Gray 12/29).

7525 CHINA CPBS; 1655 CH, Wagner mx "Die Walküre"; //7440, 7505, all good (Wood-HI 12/13).

7550 KOREA REP. Radio Korea; 1617-1700 AR, world nx with march mx, 1630 ID, "Auld Lang Syne" in English (Sharpe 12/31); 2220-2300 EG, Korean mx, ID; p (Swaringen 1/1).

7600 ECUADOR HD210A time signal station, good signal at 0130 (Daly-NY 12/22).

7620 CHINA RB; 1650 RS talk on workers; g but jammed, //7820 (Wood-HI 12/13).

7653 USA VOA; 0045 EG, strange unlisted frequency (Hankins 12/13).

7820 CHINA RB; 1535 RS, W airing various types of folk mx; //5145 (Park-HI 1/4).

*8922 PERU Radio Continente; 2300-2310+ with L.Am. mx, strings of ads followed by ID at 2307 and into disco mx (Bolitho 12/28).

9009 ISRAEL KI; 2021 EG, two W discussing Hebrew & Christian holy days (Hankins 12/18).

9020 CHINA CPBS; 0010 CH ID, Chinese orch. mx; //9030, 11505, all good (Wood-HI 12/13).

9385 ISRAEL KI; 0600 HB ID simply "Kol Yisrael", hadashot (nx); g (Wood-HI 12/25).

9390 ISRAEL KI; 1743 unid. lang., ID (Hankins 12/20); 1800-1845 EG, nx (Zilmer 12/15).

9420 GREECE VOG; 1920 EG, nx, comment on Star Wars (Dickson 12/20); 2240-2250* GK, Greek mx w/mix of vocals, instrumentals, ID 2250 at s/off (Jordan-PA 12/28).

9460 PAKISTAN RP; 0740 Turkestani (Uzbek or similar) nx summary, "Pakistan zindabad" slogan, anthem at 0745; good (Wood-HI 12/12).

9470 USSR; Mayak; 1300 RS, IS, s/on with news, music (Prath-FL 12/25).

9486 PERU Radio Tacna; 1040-1102 SP ment. Peru, ID 1022 next day (Bolitho-Ont. 12/29).

9490 USSR R. Paz y Progreso; *0130-0140 SP, IS, ID, nx (Trotto-FL 12/16).

9510 SRI LANKA DW, Trincomalee relay; 1125+ test xmsn with carrier, IS starting 1126, relay ID at 1129:45: "This is a relay transmission from Trincomalee, Sri Lanka." Into I think Japanese; USB helps separate from het on 9509; also 7265 at 1240 (Berg 12/20)

9515 TURKEY TRT; 2030 Turkish mx (Blanchette 12/28); 2042 unid. lang., mostly local mx (Levison 12/20); 2050-2110 presume TK, ID by W, time pips at 2100, nx (Jordan 12/27).

9515 USA BBC W.S. relay, Greenville to Americas; *0030-0115+, bells to 0030 (Jordan 12/26)

9525 CUBA RHC; 0734 EG answering letters; music (Levison 12/12).

9535 ANGOLA RNA; 2129 EG with local flavor mx and M ancr w/ID, wishing a good night; 2135 rock mx (Johnson-TX 12/28); 0620 PT DJ, afro mx, g (Wood-HI 12/19). Hi Hans! ed.

9535 FRANCE RFI; 0125-0133 SP/FR, mx for L.Am., into 0130 FR nx, ID's (Cinert 12/8).

9535 GUAM KTRW; 1423-1430 Chinese, ID by W, mx, ID; fair (Trotto-FL 1/5).

9540 FINLAND RF; 1953-2023 Finnish/Swedish talk, IS (Vadino-WA 12/25).

9540 MADAGASCAR RN relay; 1830-2120 EG "Happy Stn.", etc. (Dickson 12/23, Dillon, Stuart)

9540 USSR R. Tashkent; 1200-1230 EG, nx & talks on local items (Jordan 12/17).

9545 INDIA AIR; 1331 EG nx read by W w/focus on election (Johnson 12/29); 1335-1345 EG, W with ID & nx; f (Bobb 12/27); 1337 EG at strongest level ever! Newscast about Indian election results & foreign affairs (Bolitho 12/30); 1345 EG pgm preview into subcontinental mx; TC's in Indian Standard Time and GMT; 1400 "Radio Newsreel"; fair (Pappas-FL 1/4); 1400 EG news and comment on elections; poor (Zilmer-NM 12/30).

9555 USA WYFR; 0100 unid. lang., another frequency, new to me; Xmas mx (Hankins-PA 12/16)

9560 ETHIOPIA VORE; 1458 local mx then English Service news brief, program summary, pop mx and programs about compact disc and deforestation (Johnson-TX 12/24).

9560 PORTUGAL RP; 0315-0330* EG, ID then mailbag by W; good (Trotto-FL 12/29).

9560 TURKEY TRT; 2258 EG, IS, ID, fgy. sked, nx (Vadino 12/25); *0400 EG nx (Jordan 12/28)

9560 USA LV de la OEA; 0020-0033* SP "Correspondencia internacional" (McKellar 12/13).

9565 RWANDA DW relay, Kigali; 0048 EG, "Behind The News" (Park 1/4).

9565NF UAE Radio Dubai; 0332-0339 EG, ID, M ancr asking for reception reports, W reading news about the Sudan; poor (Bernstein 12/24). Also //7310, both *0330 to N.Am. -ed.

9570 GABON R. Japan relay, Moyabi; 0404-0440 EG, taped mx, "Japan Cyclopedica" (Hill 12/14)

9570 KOREA REP; RK; *0755 IS, KO ID, 0800 into KO nx (Wood 12/20; 0842 Korean nx, ID's at 0845, into EG nx; ID's at 0859, into PT nx (Park-HI 12/14).

9575 ITALY RAI; 1937 EG, nx (Dickson 12/20); 0113-0123 EG, mx & nx; into FR 0120 (Cinert)

9575 PHILIPPINES VOA; 1730 EG, "Now Music USA" with top ten records (Park 12/13).

9575NF TAIWAN VOFC; *0555 IS, 0600 NA, Indonesian ID, nx; //11915 (Wood-HI 12/25).

9575 USSR RM W.S.; 1310 news, "Soviet Way of Life" (Prath-FL 12/25).

9610 AUSTRALIA ABC, Perth (VLW9); 1112-1506 EG, pops (Park 12/25, Bonnet 12/10, Cinert).

9620 YUGOSLAVIA RY; 2005 EG, nx, cmnt (Dickson 12/20); 2215+ EG, W ancr, world nx, local sports, Yugoslav rock mx (Cinert 12/9); 2216 EG, nx, info on Yugoslavia (Hill 12/20).

9635 IRAQ R. Baghdad; 2106 AR, drama pgm, TC at 2200, nx; //11750 (Vadino-WA 12/25).

9640 RWANDA DW relay, Kigali; *2359 FR ID, s/on in German 0000 (Green 12/31).

9645 JAPAN NHK; 0000-0015 EG ID as "Radio Japan"; nx, New Year's festivities (Swaengen).

9645 PAKISTAN RP, Islamabad; 0745 UR political talk, home service, ad jingles, 0800 call to prayer; good (Wood-HI 12/12).

9645 VATICAN VR; 2045-2109 EG, religious news & comment; poor (Zilmer 12/31).

9650 NETH. ANTILLES RN relay, Bonaire; 1104 EG news features (Hankins-PA 12/11).

9650 SPAIN REE; 0750 SP industrial news; to Australia (Wood 12/12).

9655 ECUADOR HCJB; 0805-0830* EG with mx in European Svc.; ID; fair (Bobb-MN 12/22).

9660 AUSTRALIA ABC, Brisbane (VLQ9); 0836 EG, M w/talk on rock mx; ID (Cucura 12/29).

9660 VENEZUELA R. Rumbos; 1120-2230 SP, promos, ID's, L.Am. mx (4 reporters).

9665 BULGARIA R. Sofia; 2130-2200 EG, worker rights and benefits in Bulgaria, "Science & Technology", in Bulgaria, etc.; ann'd //7115, 6070 (Hankins 12/12, Jordan 12/10).

9665 SAIPAN KYOI; 1627 EG mx, "Fleetwood Mac"; poor (O'Brien 12/14).

9670 PHILIPPINES R. Veritas Asia; 1500 EG, rel pgm, holiday greetings, nx (Zilmer 12/24).

9675 PERU R. del Pacifico; 1115-1132 SP, rel pgms (Bolitho, O'Brien, Hankins, Niekamp).

9680 USA WYFR; 0725 EG to Europe, rel mx, technical glitches (Jordan 12/9).

9684.3 TANZANIA RT; 1800 EG ID, nx featuring mainly African items (Bolitho 1/1).

9690 ROMANIA B. Bucharest; 1940 EG nx on Romania, "Listeners' Letterbox" (Cucura 12/16).

9690 USA VOA, Delano; 0215 EG, "This Year" news review (Park 1/1).

9695 BRAZIL R. Rio Mar; 1131-1324 PT, pop mx, Mass, ads (Hankins 12/11, Dillon 12/9).

9700 BULGARIA R. Sofia; 2230-2244 EG, nx, mx (Hankins, Levison); 0000 EG, nx (Cinert).

9700 CHINA RB; 2230-2255 Esperanto to S.Am., "Karaj ašuklantoj" (Dear Listeners), nx of visit by Pres. Numeiri (Wood 12/12); 0843 EG, press clippings, ID, folktales (Trotto)

9705 MEXICO RM; 0030-0445 SP, mx, New Year's pgm (Bobb 12/19, O'Brien 12/13, Summers 1/1)

9705 USA WYFR; 0400-0455 SP talks by M&W, ID & promos (Jordan 1/5).

9715 ECUADOR HCJB; 1145-1200* JP, M&W with Christmas music; ID; f (Bobb-MN 12/14).

9715 NETH. ANTILLES RN, Bonaire; 0617 EG, visit to baking school/museum (Park 1/5).

9725 SWITZERLAND SRI; 0205 EG, NATO discussion, tourism says enuf snow! (Hankins 12/22).

9730 SOUTH AFRICA R. RSA; 0015 EG, annual New Year's call in pgm (Zilmer 1/1, Trotto 1/1)

9734.5 PARAGUAY R. Nacional; 1259 SP, ID & into slow vocal selections (Bolitho 12/29); 2010-2031 SP, lite LA ballads & ID's (Cucura 12/16); 2300+ SP mariachi-style mx, nx (Dickson 12/19); 0045+ SP, ID's, rapid-fire futebol coverage (Jordan 12/19).

9740 SINGAPORE BBC W.S.; 1235+ Christmas Mass, Xmas stories & mx (Cobb-ME 12/25).

9745 CAMEROON R. Nationale; 2102 EG, local & world nx, 25th anniversary of ? (Feeley 1/1)

9745 ECUADOR HCJB; 0040-0630 EG to N. Am., DX & rel pgms (Hankins, Alcorn, David, Park).

9745 KOREA DPR R. Pyongyang; *2300-0010+ EG to N.Am., nx, cmnt (Wood 12/12, Cinert 12/28)

9745 SPAIN REE; 1800 SP news of Euzkadi (Basque Country); good (Wood-HI 12/26).

9755 CANADA RCI; 2300-2325 EG to Carib. w/special Christmas pgm (Brouillette 12/25).

9755 TURKEY TRT; 1835-1940 TK, distinctive Turkish mx, nx, etc. (Palmer-WA 12/11).

9760 PHILIPPINES VOA; 1132 EG, "Now Music USA" w/1984's top ten (Park-HI 12/27).

9765 ASCENSION IS. BBC; 0015-0145 SP to L.Am. (Green 1/7, Hankins 12/18, Dillon 12/30).

9765 KOREA DOR R. Pyongyang; *0800 anthem, into EG, ID, nx (Wood 12/12).

9765 USSR RM; *2000 FR, elec. piano or celeste IS, ID by M&W (Jordan 12/8).

9765 USA BBC relay, Delano; 0237 SP, EG language lessons //6155 (Park 12/14).

9770 CUBA RHC; 2245-2400+ SP, mx & songs about revolution; nx (Dickson 12/19, 12/24).

9775 CHINA CPBS; 2230 EG lesson, U.S. accent (Wood-HI 12/12).

9880 CHINA RB; 0000-0113 EG to N.Am., nx, cmnt, IS (Zilmer 1/1, Jordan 12/30).

9885 SWITZERLAND SRI; 1845 EG, mx and into German at 1845 (Alcorn-NJ 1/5).

9890 LIBYA SPLAJBC; 1730-1805 AR, military mx, anti-U.S. cmtry, "Itha Jamariyah till Arabiya al-Libya Ellshabia tell-is shrobia", time pips about 1 minute behind UTC (McKellar 12/22); 1950 AR, mx, ID's, crowds chanting (Dillon 12/29); 0350 AR talk on unifying Arab world (Wood-HI 12/24).

9912 INDIA AIR; *2240 IS into EG at 2245, to N.E. Asia; //11715 (Wood-HI 12/12).

9940 CLAND. LV del CID/R. Camilo Cienfuegos; 1435-0038 SP, nx & mx (7 reporters).

10000 CHINA BPM; 0056 time pips, Morse ID x 10 then W said "BPM" in CH (Clifford 12/21).

11635 SPAIN REE; 1741-1900 SP, pop & LA mx, ID, nx (Park 1/4, Dillon 12/29).

11640 CLAND. V. of the Libyan People; 1810-1830 AR, ID by M "Sawt ush-Sha'ab il-Libi"; jammed (Dillon 12/29); 1922-2017 pres. AR, anmts, ment. Libya, flute & stringd mx, etc. Good signal with jammer in background (Gavaras 12/25). 73, *ave*



LOG REPORT

section D

11700 and above

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- 11700 INDONESIA RRI in IN 1550, IN mx, annt at 1557 by M ment Programa Nasional and Love Ambon, time pips 1600 then nx in IN, back to mx 1608 (Clifford 12/23)
- 11705nf SRI LANKA DW relay in AR opening at 1856, IS, Trincomalee ID 1859:45 (Berg 12/25)
- 11710 ARGENTINA RAE in EG 0230-0300, DX pgm, mx of NW Argentina (Dickson 12/6)
- 11710 JAPAN RJ in EG *0000 to ECNA, //9645, winter fogs (Wood 12/25, Green 1/1)
- 11720 AUSTRALIA RA in EG 0815-0855, mx, nx, wx, features (Park 1/4, Sams 1/5)
- 11720 BULGARIA R. Sofia in EG 2230, nx in EG first 6 min, f-g, QRN (Hankins 12/12)
- 11730 USA AFRTS Delano in EG 0513-0520, mx, NBC mx, Armed Forces Digest (Trotto 12/28)
- 11730 TUNISIA RTP in AR 1755-1905, AR mx, tlk, NA at 1901, ID 1902 (Swaringen 1/2)
- 11740 USA VOA Delano to C Am in EG 0025, sports, features, nx in spec EG (Park 1/5)
- 11760 CYPRUS BBC relay in EG 0615-0635, world nx, polit cmntry, Big Ben (Jordan 12/13)
- 11760 MOROCCO VOA relay Tangier in EG 1830-1900, nx in spec EG, features (Dillon 12/23)
- 11770 SOUTH AFRICA RSA in EG 2230-2300, phone-in pgm, g (McKellar 12/31)
- 11770 TURKEY VOT in TK 0400, ID, nx, TK mx, seems to repl 9665 to Europe (Wood 12/27)
- 11775 ANTIGUA BBC relay in EG 1315-1330*, disc on election in India, nx (Jordan 12/30)
- 11790 USSR R. Vilnius in EG 2305-2315, nx & cmntry like RM (Brouillette 12/24)
- 11790 INDONESIA VOI in EG 0800, boring nx of IN exports, g (Wood 12/21)
- 11790 USA KCBI Radio at 1920-1935, test xmsns w/test tones and annts approx every 4-5 minutes: "This is KCBI, Dallas conducting equipment tests. Reception reports may be sent to KCBI, Dallas, Texas 75221, USA." (Gavaras 12/26)
- 11790 USSR R. Vilnius via Khabarovsk in EG 2310, pop mx, 1985 greetings (Park 12/31)
- 11800 AUSTRALIA RA in EG 1135-1200, sports, features, vocalists (Bonnet 12/31)
- 11805 BRAZIL R. Globo in PT 0115-0250, local mx, ID, ads (Hunt 12/15, Swarinen)
- 11810 INDIA AIR in EG 1330, IS, tlk, heavy QRM R. Moscow, p (Stuart 1/6)
- 11815 LIBYA R. Jamahiriya in EG 2245-2330, disc of construction of RR line in Libya (Feeley 11/18) Happy Music pgm, disc of Libya-Morocco treaty (Hill 12/19)
- 11820 ASCENSION ISLAND BBC relay in EG 1900, "Outlook", nx (Park 12/10) 2010-2030 in EG w/disc of S. African apartheid, nx (Hankins 12/10)
- 11825 TAHITI RT in FR 0300, island mx (Hunt 12/28) 0604 in FR, pop mx (Cucura 12/16)
- 11835 SRI LANKA AWR via SLBC in EG 1104, "R. Monitors Intl", speech (Park 12/30)
- 11835 ECUADOR HCJB in RS 0257-0305, rel mx, tlks, ID (Dillon 12/29, Hunt 12/15)
- 11835 URUGUAY R. El Espectador in SP 0200, ads, shouted ID, p (Sams 12/13)
- 11840 ROMANIA in EG 1530, ID, nx to Afr, //11940, 15380, g (Wood 12/25)
- 11850 GUAM KTWB in CH 2230, hymns, sermon, g (Wood 12/12)
- 11850nf CUBA RHC in EG 2135, ID, march mx, s/off 2136, exc (Hankins 12/31)
- 11855 SEYCHELLES FEBA in lang (Telugu?) 0220-0240, ID 0230, p (Trotto 12/29)
- 11860 CHINA R. Beijing in EG 0004-0056, nx, CH mx, ID (Park 1/1, Swaringen 1/3)
- 11865 SEYCHELLES FEBA in Tamil 1332, relig drama w/S.Asian mx in backgrd (Park 12/8)
- 11870 SAUDI ARABIA BSKA in AR 0415, end nx, march, ID for Riyadh, //7290 (Wood 12/27)
- 11875 NETHERLAND ANTILLES TWR in SP 2245, relig pgm, weak sig (Brouillette 12/25)
- 11880 AUSTRALIA ABC in EG 1951, choir mx, TC, harps, classical mx (Park 1/4)
- 11885 USA WYFR in CH? at 0008, USA mx, CH mx, s/off 0100 (Hankins 12/14) ED: This must be a return to an old fgy. I have not logged WYFR here for more than 5 years. Could this be xmsns from WYFR's Taiwan xmters?
- 11890 USA WRNO New Orleans in EG, rock mx, f (Stuart 1/7)
- 11895 AUSTRALIA RA in EG 0940, "Intl Top Hits", //6045, 9580, 11800 (Park 12/15)
- 11905 BRAZIL R. Universo in PT 0014-0048, impassioned speech and singing by crowd (Feeley 12/18) speech, applause, cheering, mx, ID, QRM VOA (Paszkiewicz 12/29)
- 11910 AUSTRALIA RA in EG 0602, world nx, ID, arms control tlk, f (Gray 12/1)
- 11915 TAIWAN VOFC in CH 0000, s/on in CH (Green 1/7)
- 11920 AUSTRALIA RA in Pidgin 1051, mx by Ringo Starr, New Year's greetings, s/off in EG and IS, pips, QRM VOFC 11915 (Park 12/31)
- 11920 CANADA RCI in EG 0205, disc on Canada & NATO, nx, ID and fgy (Hankins 12/14)
- 11925 BRAZIL R. Bandeirantes in PT 0130-0200, Brazilian mx, ID (Swarinen 12/10)
- 11925 CANADA RCI 2200-2230 in EG, nx, ID (Park 12/26, p; Stuart 1/7, f)
- 11925 PHILIPPINES VOA relay in KR 2153, tlk on Freedom House rpt, g (Park 12/26)
- 11925 USA WYFR Family Radio in FR 2131-2145*, organ mx, relig theme (Hankins 12/31)
- 11930 NETHERLANDS RN in SP 1230, s/on Spanish service (Daly 12/22)
- 11940 ROMANIA R. Bucharest in QM 1230 to Europe (Daly 12/22) in EG 1500 w/special New Year's pgm, f (Zilmer 12/31)

- 11940 SINGAPORE SBC in EG 1405-1410, US country mx, DJ anncr, f (McKellar 12/12)
- 11945 CANADA RCI in EG, Xmas mx on "Spectrum" (Park 12/26) in FR 2126, square dance mx, Mann EG African Service, ID, IS (Hankins 12/31)
- 11950 CUBA RHC in SP 2050, W anncr and Cuban mx (Hankins 12/13)
- 11950 USA VOA Dixon s/on 2358 in SP, IS, ID, xmsn to Cen Amer, QRM (Park 12/31)
- 11950 USSR RMWS(Far East) in EG 0500, theme, pips, Spassky Tower bells, nx (Park 1/4)
- 11955 FINLAND RF in SW 1756-1839, church svce, IS 1832, ID in FN, EZL mx (Palmer 1/1)
- 11960 USSR R. Rodina in RS *1400-1419, IS, ID, nx, instr mx, tlks, g (Trotto 12/16, D'Angelo 12/16)
- 11965 PHILIPPINES VOA relay in RS 0802, nx by 2 M, jamming underneath 0804 (Park 1/4)
- 11965 USA WRNO New Orleans in EG 0200, "World of Radio" (David 12/2)
- 11985 NORTH KOREA R. Pyongyang in EG 0725, tlks, songs, //11660 (Park 12/31)
- 12000 AUSTRALIA VMG time signal in EG 0815, ID at 0615 (Feeley 11/24)
- 12015 CHINA R. Beijing in CH 1052, Mauriat's "Love is Blue", ID mx (Park 12/31)
- 12015 AUSTRIA ORF in GM 1350, band mx (Levison 1/2) in EG 1500, fcy & sked, "Report from Austria", //12025, f (Zilmer 12/17)
- 12027 ISRAEL Kol Israel in HB 1745 (Hankins 12/21) ED: Yes, KI uses split fcy.
- 12025 USSR RMWS in EG 2215-2230, "Soviet Way of Life", g (McKellar 12/26)
- 12035 SWITZERLAND SRI in EG 1530, "Deteline", nx, g (Zilmer 12/31) also in EG 2205, with "Industry in Switzerland", p (Cinert 12/9)
- 12045 USSR R. Yerevan in AM 2237-2240, nx, ID "Yerevanne Khosum" (Brouillette 12/24)
- 12065 USSR R. Moscow (to Asia) in Asian lang 1315-1350, tlks, orch mx w/Oriental Flavor, w/mentions of Hanoi, Pakistan, Pres. Marcos, IS, ID, nx, f (Jordan 12/15)
- 15025 TAIWAN WYFR relay in RS 1615, relig pgm, ID & US addr given (Rigas 12/20)
- 15050 CLANDESTINE The V. of Unity in Pushto/Dari(p) 1530-1623*, tlks, patriotic mx, snare drum & machine gun fire in background, f-p (Jordan 12/15)
- 15085 USA WRNO New Orleans in EG 1620-1635, rock mx, fade (Dillon 12/29)
- 15100 USSR R. Vilnius in EG 2315, "People of Lithuania", exc (McKellar 12/15)
- 15105 PORTUGAL RP in EG 1614-1632*, fcy & sked, travel info, mx (Zilmer 12/24)
- 15106v ECUATORIAL GUINEA R. Nacional in EG 1715, relig pgm (Field) in EG/SP 2014-2046 complete ID in SP 2042, f (Cunningham 11/30) 1659 w/NA, mx, ID (Summers 12/19) 1845-2157* in EG w/more relig pgms (Jordan 12/26, Swarings 1/2, Dickson 12/21)
- 15125 PORTUGAL RP in PT 1635-1735, accordion mx, phone-ins, TC, fade (Dillon 12/29)
- 15140 CHILE R. Nacional in SP 1900-2325, EZL mx, futbol, exc (Green 12/2, Park 1/1, Niekamp 12/15)
- 15140 INDIA AIR *0355 IS, into Farsi, "Inja Delhi", times given in Afghan and Tehran time, g but QRM from R. Moscow (Wood 12/26)
- 15160 USA VOA Bethany in EG/SP 0027, xmsn to Lat Am, classical piano, ID (Feeley 11/12)
- 15165 INDIA AIR in HD 0355, film mx duet, //17805, QRM R. Australia (Wood 12/26)
- 15165 AUSTRALIA RA in EG 0810, "Talkback", QRM R. Tahiti, p (Park 12/16)
- 15170 TAHITI RT in TT/FR 0340-0410, tlks by w in TT, nx, mx, into FR (Dillon 12/29)
- 15200 SEYCHELLES FEBA *0455 IS, into SH 0500, ID "Hii ni R. FEBA", hymn, f (Wood 12/3)
- 15215 PHILIPPINES VOA relay in EG 0105, nx, //15205 Greenville (Park 1/3)
- 15250 PORTUGAL RP in EG 1800-1820, nx & cmtry, ID, EG off 1816 (Hankins 12/21)
- 15260 CANADA RCI in EG 1900, pgm about Vancouver, peace capital of Canada (Blanchette)
- 15280 USA KGEI San Francisco in EG 2140-2158, "Hour of Decision", ID, f (Bobb 12/23) also in SP 0024 w/SP mx selections (Feeley 11/12)
- 15280 SWEDEN RSI in SW *1430-1435, IS, ID, tlk, nx, g (Trotto 1/6)
- 15290 PHILIPPINES VOA relay in EG 2302, nx, QRM KGEI & HCTB (Park 1/2)
- 15315 FRANCE RFI in EG 1620, rpt on Brazil's economic woes (Alcorn 1/6)
- 15325 CANADA RCI in HG 1809, nx, feature, QRM 15320 (Park 1/4)
- 15335t MOROCCO RTVM in AR? 1330-1400, AR mx & vocals, prayer-like tlks, f (Jordan 1/1)
- 15340 NORTH KOREA R. Pyongyang in FR 0600, political tlk, //9560, g; also in AR 0415 w/nx of "Rais Kim Il Suno" (Rais = President), //11880, g (Wood 12/27)
- 15345 SOUTH AFRICA RSA in SH *1600, EG ID, tlk in SH, mx, p (Zilmer 12/31)
- 15345 USA AFRITS Delano in EG 2353, EZL mx, sports, Xmas mx, QRM (Park 12/28)
- 15345 TAIWAN WOPC in EG 0305, nx, het from Argentina, p (Park 12/25)
- 15350 LUXEMBOURG RL in FR 1750-1810, pop mx, TC, nx, f/out by 1810 (Dillon 12/24)
- 15355 ANTIGUA DW relay in GM 2014, nx magazine, QRM AFRITS & WYFR (Park 1/3)
- 15365 USA WYFR in EG 1900, inspirational mx, mailbag, book reading, f (Park 12/30)
- 15380 WEST GERMANY RFE/RL in RS 1830-1900*, tlk about Afghanistan, nx, ID (Dillon 1/1)
- 15395 PHILIPPINES VOA relay in CH 0040, EG lang lessons, QRM, p (Park 1/3)
- 15395 AUSTRALIA RA in EG 2115, DX nx, sunspot rpt (Alcorn 1/6)
- 15400 IRAC BSRT in AR 1745-1800, nx, AR mx, het from RBC Ascension (Dillon 1/1)
- 15405 SAIPAN KYOI in EG/JP 2304, top 40 mx, hrd better than WRNO on Oahu (Park 12/25)
- 15420 USA WRNO New Orleans in EG 1820, comedy, ads, mx (Dickson 12/6)
- 15425 SRI LANKA SLBC in EG 1527-1531, "Good News for All" relig pgm, ID & TC, "This is the All Asia Service of the SLBC", vg (McLemore 12/10)
- 15465 NEW ZEALAND RNZ in EG 1902, nx, light mx, TC, UTE underneath, f (Park 12/19)

- 15560 NETHERLAND ANTILLES RN in DT 2150-2231, relig services, p (Park 11/16) Xmas carols in DT and EG, s/off w/o anncmt 2158 (Hankins 12/26)
- 15570 MADAGASCAR R. Nederlands relay in Lang? 1728, Afr svce, IS at s/on, Bad QRM from DW at 15565, f (Gray 12/17)
- 15580 USA VOA Greenville 2133-2136 in EG, nx on Afr, Wall St., ID, g (Trotto 12/27)
- 15590 CHINA CPBS in CH 0725, ID, Beijing opera, //11290, 11610, g (Wood 12/12)
- 15600 LIBERIA VOA relay in EG 1716, nx of airliner hijacking in Ethopia (Gray 12/5)
- 15630 GRECE VOG in EG 1540-1549, nx, feature on local manuscripts, f (Zilmer 12/31)
- 15670 CHINA CPBS in Kazakh 0605, minority language svce, g (Wood 12/25) also hrd 0102 in Kazakh? w/probable nx, sounded Middle Eastern (Park 1/4)
- 17620 FRANCE RFI in FR 1535-1555, live sports event, ID, f (Dillon 12/30)
- 17650 SPAIN REE in SP 1555-1559*, IS, anncd fqys, p (Dillon 12/30)
- 17669 EGYPT R. Cairo in AR 1220-1235, AR mx, chimes & NA at 1230 (Swaringen 12/25)
- 17705 NEW ZEALAND RNZ in EG 0000, sports roundup (Green 1/6) 1745 in EG, choir mx, TC phone-in (Clifford 12/24) 1838-1900+ in EG, EZL mx, Beatles, nx (Speer 12/25)
- 17745 ALGERIA R. Algiers in EG 2018, ID, US pop mx, RTA address anncd (Gray 12/9)
- 17750 CUBA RHC 1610-1630 in SP, tlk re revolution in C Am, ID (Dillon 12/30) in SP 1750, sports cmntry, mx, nx (Dickson 12/6) 2107 in EG, contest (Hankins 12/31)
- 17755 SURINAM via Radiobras, Brazil in lang? 1850, mention Rio (Hankins 12/31)
- 17755 JAPAN RJ in EG 2300-2310, nx, g (McKellar 12/20) 0100 Eg cmntry (Clifford 12/6)
- 17765 USA AFRTS Delano in EG 2329, Rose Bowl game, QRM R. Japan (Park 1/1)
- 17765 SWITZERLAND SRI in GM 1350-1415, highly entertaining mx pgm for New Year's treat, lively polkas, exc (Bonnet 1/1)
- 17785 USA VOA Bethany in EG 1800-2230; ID, then pgm on Afr musicians (Daly 12/16) Describe funeral procession, Lebanon problems, heavy QRM (Hankins 12/31)
- 17790 ECUADOR HCJB in EG 1930, intl mx (Green 1/6) 2130 "DX Party Line" in EG (Witzig 12/17, Hankins 12/26)
- 17800 RWANDA DW Kigali relay in EG 1240-1250, polit cmntry, g in Afr svce (Hill 12/15)
- 17810 ANTIGUA DW relay in GM 2046-2140, choir mx (Hankins 12/26) mx of 40's (Park 1/1)
- 17820 CANADA RCI in FW 1755, jazz & mx of 30's (Hankins 12/31)
- 17825 JAPAN RJ in EG 0145, nx, cmntry on parliamentary reapportionmt (Clifford 12/6)
- 17880 USSR RMWS (Far East) in EG 0309, nx, "The Way We See It" (Park 12/30)
- 17885 ASCENSION ISLAND BBC relay in EG 1738-1745*, nx, discussions (Hankins 12/21)
- 21475 USSR RMWS (Far East) in EG, nx, ID, Mussorgsky opera mx (Park 12/6)
- 21485 MADAGASCAR R. Nederlands relay in EG 0703, nx, "Sunday West" reviewing the year in Africa, p (Park 12/30)
- 21495 SAUDI ARABIA BSKSA in AR 0700, Islamic tlk, Qur'an reading, f (Wood 12/13)
- 21500 USA VOA relay England in Uzbek 1437, Yankee Doodle ID (Hankins 12/11)
- 21525 USA KYFR Family Radio in AR? 1725, relig mx & tlk (Dickson 12/6)
- 21575 GARON R. Japan relay in EG after time pips 0700, relay ID, c (Wood 12/13)
- 21600 WEST GERMANY DW in Hausa 1434, all lang pgm (Hankins 12/11)
- 21660 ASCENSION ISLAND BBC relay in EG 0700, time sig, world nx, g (Wood 12/13)
- 21685 NETHERLANDS ANTILLES RN relay Bonaire in AR 1745-1824*, xmsn to Afr & ME, AR mx, intro to US top 40 at 1800, prayers in AR 1818, f (Jordan 12/28)
- 21695 CANADA RCI in PL? 1428, "Oh Canada" chimes to 1430, into lang (Hankins 12/11)

 A slight drop-off in loggings this month compared to last (293 vs. 375). I guess the higher frequencies are losing their zing (VOA says the smoothed sunspot number is estimated at 61 for the winter months). As before, loggings reported in last month's issue are not listed above. See the Jan issue for total update. New members should be reminded that the deadline for reports to the Distribution Editor is the 12th of the month. Be sure to allow sufficient lag time in the mails if you live a long ways from Massachusetts. If time is a problem, reports for this Section may be sent directly to me but the preferred method is to send them to the DE for proper credits and sorting.

LOG REPORTERS

FRENDX

John M. Kapinos, 86 S. Quinsigamond Ave., Shrewsbury, MA 01545

Sam ALCORN, Maplewood, NJ (DX200 ICF6500W); Brian ALEXANDER, Mechanicsburg, PA; George BAITZEL, Wilmington, DE (NRDS15); Jerry BERG, Lexington, MA (HQ180A); Marion BLANCHETTE, Thonotosassa, FL (R600 DX100); Norman BOBB, Minneapolis, MN (R1000); Charles BOLLAND, Lake Worth, FL (R70); Arthur BONNET, W. Lafayette, IN (DX400); Paul BROUILLETTE, Schamburg, IL (R71A); Richard CINERT, N. Judson, IN (FRG7000); James CLIFFORD, Los Alamitos, CA; Ken COBB, Portland, ME (R70 RF4900); Vladimir CUCURA, Reading, PA (R7 FRG7); Larry CUNNINGHAM, Columbus, OH; Tom DALY, Pomona, NY (FRG7700 CR2021); Richard D'ANGELO, Wyoming, PA (R70); Ronald DAVID, Jamaica, NY (DX160); Richard DICKSON, Goshen, OH; Barbara Ann DILL, St. Marys, PA (RF2200); Peter DILLON, Washington, DC (DX400); Jim FEELEY, Norcross, GA (R2000); Marlin FIELD, Hillsdale, MI (SPRA); Ray FORSGREN, Chippewa Falls, WI (FRG7700); Karl FORTH, Chicago, IL (R70 HQ160); Tom GAVARAS, Minnetonka, MN (R70); J. Speed GRAY, Grand Rapids, MI (NRDS15 R71A); Jerry GREEN, Maryville, TN (FRG7700); Mike HARDESTER, Littleton, CO (FRG7000 R1000); Arthur HANKINS, Greensburg, PA (R1000); Michael HAWK, Hampton, VA (ICF 6800W); Al HEWITT, Kingston, MI (DX300 DX400); Ken HILL, Somerville, MA (DX1000); Billy HUNT, Durham, NC (R70 NRDS15); Hans JOHNSON, Kingwood, TX (R71A); Rufus JORDAN, Pittsburgh, PA (DX302); Brian JONES, Houston TX (R70); John KOCIELA, Tonawanda, NY (FRG7700); Terry KRUEGER, Largo, FL (R70 ICF2001); Lavoyd KUNEY, Detroit, MI; Harold LEVINSON, Philadelphia, PA (R70); Jerry LINEBACK, Conroe, TX (R7); John MCKELLAR, Chino, CA (DX160); Travis MCLENORE, Clearwater, FL (FRG7); John MEYER, Kellersville, WI (CR2021); Nathan MURFF, Albuquerque, NM (DX1000 FRG7); Ray NIEKAMP, Minneapolis, MN (FRG7); Andrew O'BRIEN, Chantilly, VA (R2000); Robert PALMER, Spokane, WA (R71A); Nick PAPPAS, Orlando, FL (SPRA); Dale PARK, Honolulu, HI (ICF6700W); Bill PLUM, Flemington, NJ (FRG7700); John PRATH, Ft. Lauderdale, FL (R71 FRG7000); Sheryl PASZKIEWICZ, Manitowoc, WI (DX400); Stewart REED, Baton Rouge, LA (R70); Steven REINSTEIN, Miramar, FL (R70); Christos RIGAS, Chicago, IL and South Korea (R2000); Mitch SAMS, Wichita, KS (FRG7); Bryan SHARPE, Castro Valley, CA (DX302); Dr. Richard SPEER, Baldwin Park, CA; Jerry STUART, Lawton, OK (FRG7 SX190); Steve SUMMERS, Mechanicsburg, PA; David SWARINGEN, Huntersville, NC (R70); Ron TROTTO, St. Cloud, FL (CR2021); Pete TUTAK, Jersey City, NJ (R70 HQ180A); George VADINO, Bellevue, WA (RF4800); Dave VALKO, Dunlo, PA (R388 FRG7); Eric WITZIG, Annandale, VA (R1000); Dr. Richard WOOD, Hilo, HI (R1000 R71A); Robert ZILMER, Rio Rancho, NM (R1000).....

KAP'S KOMMENTS

The deadline here is always the 12th of the month. Allow plenty of time for the USPS to do their thing. A contribution mailed from Coyote Rapids, Wyoming on the 11th is just not going to make it here on time. We must abide by the deadline, or the whole bulletin gets fouled up. We're pleased to announce that every single contributor this month cut his (her) loggings apart. Nice to have retired the scissors (and the blisters) for awhile. Now, do I dare ask for another favor. Sure, why not, you folks are pretty cooperative. How about sorting your slips by section (A,B,C,D)???? Many folks now do this, if all did it would make my job so much easier and I could spend more time at the radio rather than at the desk. Thanks to everyone for your anticipated cooperation.

AWARDS NEWS

We're pleased to announce that even with the upcoming Postal Rate increases we will be able to keep the cost of the Awards at their present level. For remittances under \$5.00 please send cash or stamps, as all of the local banks have instituted service charges on each check deposited to the account. Keep the face value of each stamp at 40¢ or under and everything will be fine.

Now on to the Miller and the Super Bowl. Until next month,

BEST


What is a Dark Path Calendar?

Whether you listen to shortwave, DX the broadcast band, or operate a Ham Radio, the dark path window is important to you. Quite simply, that is the time that darkness exists between you and the station that you are trying to hear. As most of you will know, this is the best time to attempt to hear the station. In fact, in many cases it is impossible to hear a station if this condition does not exist.

How does one know when the dark path exists? There are many methods, most involving complicated maps and charts. Even after consulting these, the listener still has much to figure out before he knows for sure when there is a dark path.

Now, however, there is a better way. Steel City Software is proud to unveil its Dark Path Calendars. SCS's sophisticated computer has a database containing nearly every city in the world. All we need to know is your location and the city which you want to hear. The result will be an easily readable printout detailing the "Dark Path Window" for the entire year. (As you see in the accompanying sample, the window is given every week). At the end of each month is the average Dark Window per day, so that you can tell at a glance what the best months for listening are. And it gives the information for your location, not someone else's.

An accompanying price list details the costs of the Dark Path Calendars. There are three ways of ordering:

1) pick the continent package that interests you the most. This will include all the capital cities in the continent(s). Then you can pick five additional cities free of charge. We will also include for free a clear binder for you to store the calendars.

2) pick the world package and receive all four continent packages. (Save \$15.00) You can pick 25 additional cities free of charge, and you get four free binders. (This is truly the ultimate in references)

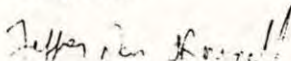
3) pick your own cities. Send us a list of cities for which you wish to have Dark Path Calendars and we'll send them to you. This way you can 'pick and choose', and only get printouts for the cities you really are interested in.

We do ask that when listing the additional cities you include as much information as you can. City name and country will generally do for everything but the USA & Canada, there we'll need the state or province. Unfortunately for us, you won't have to buy a new calendar for, say, London every year. Thanks to mother nature and leap year, the actual windows will never vary more than a few minutes from those in the Calendars.

If you require more accuracy than just once a week listings, let us know. Expanded calendars listing every day of the year are available for a slightly higher cost. SCS will attempt to accommodate even the grumpiest radio enthusiast. If you have any comments or suggestions to improve the service, please pass them along.

Thank you very much for your time.

Sincerely,



Jeffrey D. O'Donnell
Steel City Software

Levittown and TRISTAN DA CUNHA
(cont.)

SAMPLE
ILLUSTRATION

Darkness Window

Date	G M T	E S T
August 01	22:59 - 07:42	(05:59pm - 02:42am)
August 08	22:59 - 07:36	(05:59pm - 02:36am)
August 15	22:59 - 07:29	(05:59pm - 02:29am)
August 22	22:59 - 07:23	(05:59pm - 02:23am)
August 29	22:59 - 07:16	(05:59pm - 02:16am)
Average of 8 hrs. 30 min. per day in August		

Price List

effective 11/10/84

Prices guaranteed until 2/27/85

All prices include postage & handling

Packages
(Every country capital)

1 N. & S. America	\$21.50
2 Europe & Oceania	\$21.50
3 Asia	\$21.50
4 Africa	\$21.50
5 Entire World	\$25.00

Purchase of packages 1-4 entitle the user to 5 extra cities at no charge
(Please list with order)

Build your own

quantity	price each
1-9	\$0.60
10-24	\$0.50
25-49	\$0.45
50-99	\$0.40
100+	\$0.35

(please type or print clearly the cities wanted-include state & country)

Prices apply to USA & Canada only.

Send order to: Jeffrey Dean O'Donnell
Steel City Software
9065 Oak Street
Pittsburgh, Pa. 15239

(allow 1-2 weeks for delivery)

You MUST include:

- 1) The name of the town where you live.
- 2) Either the name of the package(s) you want and/or a list of the cities you want.
- 3) A check or money order made out to: Jeffrey Dean O'Donnell

Thank you and 73!

HAP BID ITEMS: ITEM #378:KDKA cloth hat,red,white.#379:CBC Halifax QSL card(3.5x5.5")m/c.
#380:RNZ QSL card(4x5")m/c.#381:WLUP new sticker(4x9")m/c.#382:BBC Radio Hallum(UK)43pg.
magazine,m/c.#383:Radio Clyde(Scotland)30pg. magazine,m/c.#384:Radio 210(Canada)2pg. large
newspaper,red,B&W.#385:BBC Radio Derby(UK)40pg. color magazine.#386:Radio Canada 1977
"Nic et Pic"collectors edition color magazine.#387:WLUP large B&W whoopee cushion!#388:
CFRW "Sizzlin Sounds"60 cassette tape w/ pop music-great!#389:KKDJ plastic coffee mug,
m/c.#390:WLUP...2 regular sized chopsticks w/ red and gold ribbon for the "Vapors" going
Japanese - sort of a pennant-great!#391:RTE Radio 2(Ireland)T-Shirt(M)white,yellow,blue.
#392:CKSW large paper folder(8.5x11")m/c.#393:Viking Radio(UK)paper spiral hat,m/c-nice!
#394:Radio TV Cultura(Brasil)decal(2.5x3")m/c.#395:Radio TV Cultura stick pin,green,gold!
#396:KORA "Armaddillo"sticker(3x7")m/c.#397:KPXE"Cowboys"sticker(4x5")blue,white.#398:BBC
Radio London large 16pg. magazine,m/c.#399:NBC(Papua)1976"Second Annual Report"over 75
pgs. collectors item!#400:BBC Radio Cymru(Wales)20pg. B&W magazine w/ photos.#401:BBC
Radio Sheffield(UK)24pg. color magazine.#402:International Listener Vol. 1 No. 1 1976
collectors edition(!)40pg. magazine!#403:Radio Korea QSL card(4x6")m/c.#404:Radio Tash-
kent(Uzbek)QSL card(4x6")m/c.#405:Radio Sweden International new QSL card(4x8")m/c.#406:
KZEU sticker(4x8.5")m/c.#407:KL0L"Rock"sticker(3.5x12")m/c.#408:Radio Monte Carlo sticker
(3x6")red,white.#409:CFSL sticker(4x13.5")red,blue.#410:WTAW sticker(3x12")m/c-nice!#411:
KWDX/KKAS sticker(3x12")m/c-nice!#412:WDOM sticker(3x6")10 watt station-rare!#413:HCJB-
FM Esmeraldas sticker(3.5x8")B&W.#414:Radio Norway flag-pennant(2x3")red,white,blue.#415:
CKY "Winnipeg Jets"sticker(3x10")m/c.#416:Radio Northland(NZ)sticker(5x6.5")m/c.#417:WTO5
plastic ID card(2x3")m/c.#418:BBC Radio Lechester(UK)50pg. color magazine.#419:BBC Radio
Birmingham 24pg. color magazine.#420:BBC Radio Brighton(UK)34pg. color magazine.#421:BBC
Radio Solent(UK)34pg. color magazine.#422:BBC Radio Medway(UK)large 12pg. color newspaper.
#423:Radio Sweden cloth pennant(4x9.5")blue,yellow.#424:Radio Peking"Mountain Village"
paper pennant(5.5x11")m/c.#425:Deutsche Welle(FRG)cloth pennant w/ address(6x13.5")white,
blue-nice!#426:Radio Oggli(Italy)odd shaped sticker,m/c-beauty!#427:Radio Oggli triangular
sticker,m/c.#428:Radio Evangile(Monaco)decal(3x3")red,white.#429:TV3-Catalunya (Spain)sticker
(2x2")m/c.#430:RTE Radio 2 large paper folder,m/c.#431:BBC Radio Clywd(Wales)decal
(5"cir)m/c.#432:RTE Radio 2 large plastic litter bag,m/c-beauty!#433:RNE(Spain)large 1982
m/c soccer poster-nice!#434:Radio TV Cultura color studio photo(3.5x7")m/c.#435:BBC Radio
Times 100 pg. 1979 magazine-collectors item!#436:WLLZ metal badge(1"cir)m/c.#437:WJGS plastic
key chain,blue,white.#438:Radio Quito cloth pennant(3x7")red,white,blue.#439:Radio
Polonia pin,red,white,silver.#440:Radio Italia sticker(3.5"cir)m/c.#441:Radio Earth QSL
card(3x5")B&W.#442:Northsound Radio(UK)decal(3x13")m/c.#443:ANARC-82Montreal large blue
plastic carrying bag-collectors item!#444:CKRD pen,blue,white.#445:CKSW pen,blue,white.
#446:Radio Earth pen,red,gold.#447:KLVF pencil,B&W.#448:WBSB T-Shirt(XL)blue,white,yellow.
#449:KLOS T-Shirt(S)m/c-beauty!#450:WRIF T-Shirt(M)B&W-sharp!#451:DC-101 T-Shirt(M)m/c.
#452:KIFM T-Shirt(S-M)m/c.#453:KKDJ T-Shirt(M)purple.#454:KKDJ T-Shirt(L)gray.#455:Radio
Earth sticker(3x12")B&W.#456:WMM5 very large 1984 "Rock"calendar-12pgs! - super!#457:
BBC Radio Manchester(UK)100pg. diary/calendar,m/c-nice!#458:CKUA metal badge(2"cir)m/c.
#459:DX Club Quebecois sticker(3"cir)blue,white.#460:KVLV"Cowboys"sticker(4x5")m/c.#461:
CFRC sticker(4x5")m/c-beauty!#462:CKUA metal badge(1.5"cir)m/c.#463:Radio Veritas(Phil)
paper pennant(3x6")red,black,blue.#464:RNE Radio 4(Spain)sticker(3x4.5")m/c.#465:Radio
Genova(Italy)sticker(2x5")B&W,yellow.#466:BBC Radio Bristol(UK)sticker(5"cir)red,white.
#467:Radio RSA sticker(3.5x5.5")yellow,black.#468:BBC QSL card(4x6")red,B&W.#469:Radio
Bucharest cloth pennant(4.5x7")red,white,orange.#470:Viking Radio large m/c newspaper.
#471:KNAL sticker(3x11.5")m/c.#472:CJWW sticker(3x7.5")blue,white.#473:BBC Radio Hallum
(UK)sticker(1x12")m/c.#474:WQBS(Puerto Rico)Salsa-63 decal,red,white.#475:Radio Forth
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(3x9")m/c-nice!#478:Voice of Turkey cloth pennant(4x8")m/c.#479:BBC Radio 1 match book.
#480:KRYT metal badge(1.5"cir)m/c.#481:WHGR metal badge(1"cir)green,white.#482:Radio Pop-
olare(Italy)reflective sticker(3.5"cir)m/c.#483:KSAM sticker(6"cir)m/c-nice!#484:Radio
Nacional do Brasil sticker(3.5"cir)m/c.#485:RTE Radio 2 sticker(over 4 feet long!)red,
white.#486:WKQQ cloth hat,B&W.#487:WRCK T-Shirt(M)blue,yellow.#488:KLOK station balloon,
brown,B&W.#489:KIKR sticker(3x12")green,red.#490:Radio Clyde 20pg. color magazine.#491:
Radio Forth coaster(4x4")m/c.#492:ORF sticker in Spanish,red,B&W.#493:KYUU very large
1984 calendar poster.#494:Radio Bucharest 1976 pocker calendar(3x4")m/c.#495:Radio Buch-
arest 1977 pocker calendar(3x4")m/c.#496:Radio Bucharest 1979 pocker calendar(3x4")m/c.
#497:Mercia Sound(UK)decal(3x14")m/c...Hope you like this selection...Sam.

ADDRESS: Send your bids and orders for direct sale items to Sam Barto, 47 Prospect Place,
Bristol, CT. 06010 USA.

HAP DIRECT SALE ITEMS: The following stickers/decals are \$.25 each or any 5 for \$1.00. If
your order is for \$5.00 or more you may select seven(7) for each dollar. The selection
is as follows:CFLS,KLOS(Party),CJCD,RTB,WLUP(large) (cir),BBC Radio 2, Radio Highlands,
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KQOV,BBC-WS, Radio Budapest(red) (blue) (small),WBEZ,12B, Radio Break,CJOB,KTAM, Radio Kuwait,
NCAU,WHSH,KETX,RTE Radio 2,CJWW,CHAB,KHUN(large) (small),KTTX,KJCH,KOGT,KOTI,CKND,CJME,
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