

RADIO NORWAY

Radio Norway International broadcasts a half hour programme in English every Sunday. The programme is repeated several times to reach listeners all over the world at convenient hours. The programme - 'Norway Today'contains a survey of the main news events from the past week in addition to interviews, short features, and music.

Your comments are appreciated. Our postal address is Radio Norway International, Bj. Bjoernsons pl. 1, 0340 Oslo 3, Norway.

No	World broadcast sched v. 5th, 1989 - March 3rd	, 1990
Times	(Sundays only) Target sectors	T.
UTC	Intart sectors	Freqs. MHz
0600	RS Pacific Europe	15.165 5.980
0800	RS Pacific, North America	15.165
0900	CDE India, South Asia, Australia	17.740
1200	OPQ North America	15.165
1300	Europe	9.590
1400	CDE India, South Asia, Australia	21.710
1600	North and Central America North and Central America	21.705 17.840
	HLJ Africa POR North America	21.705 15.305
1800	FCM Middle East, Africa	15.265
1900	Europe	15.220
2200 . 1	LIK West Africa, South America	15.225
2300	MINO North and Central America	9.605
2400	KL South America	9.595



UTENLANDSENDINGEN Radio Norway International

NOVEMBER 1989

UNIVERSAL SHORTWAVE

Japan Radio Company NRD-525



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"Japan Radio receivers are for the connoisseur," Larry Magne

Magnavox D2935

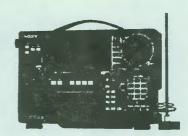


The Magnavox D2935 portable shortwave radio offers a tremendous value in the under \$200 category. It has an upconversion superhet for exceptional selectivity and image rejection. Take a look at these features: LCD digital display, direct keyped entry, two speed high resolution manual tuning, tone and RF gain control, five element LED S-meter, light and Local-sx switch. A switchable variable pitch BFO and AM Gain control are provided for good SSB/CW reception. A nine station memory allows the user to preprogram any combination of AW FM/LW/SW frequencies to be recalled at any time with a single control. External antenna screws and record-out jacks are provided. A large four inch speaker provides good audio. With %" headphone ack. Continuous tuning from 146 to 29999 KHz. Runs on 120/220 VAC, 12 VDC or six D cells (not included). Also requires three AA cells for memory backup. With carrying strap and fold out stand, 12.5"W x 7"H x 3"D.

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Thank you to everyone who has responded to the NASWA membership survey. According to Bob Brown, quite a number of them have been received to date.

Some have asked me to comment on the number of members in NASWA. In a past column, I mentioned that NASWA membership is at an all time high. I was trying to convey the idea that our ability to attract and retain members continues to remain at an all time high. NASWA is not a commercial publication which is driven by circulation figures. In the early 1980's membership was around 1,800. Membership is currently around 1,300 which we feel reflects the general level of interest in the hobby today. We hope that our high level of new and renewing members is a positive indication of the health of the hobby not only for NASWA but for all clubs and enthusiasts.

Along these lines, I would like to offer an enthusiastic welcome to the 66 new members who have joined NASWA this month.

In the survey, the members also seem to be requesting a return of the Loudenboomer Report. Charlie, if you are out there, how 'bout dropping me a line to discuss a possible comeback?

Due to a heavy work load, Executive Council Member John Herkimer is resigning his position. I wish to thank John on behalf of myself and the membership for the efforts he invested into NASWA and *FRENDX* over the years.

On a more positive note, I have appointed long time NASWA supporter, DX'pert, and writer, Gerry Dexter to assume John Herkimer's place on the Executive Council. Please join me in welcoming Gerry!

The following information concerning "Euro DX" came in the mail with no contributor information. Thank you to the contributor, who ever you are.

The August 89 issue of "Euro DX", the European DX Council's quarterly, has a wealth of information about new publications. These pointers, written by EDXC's Secretary General, are quoted with permission:

The Danish Shortwave Clubs International have issued the 17th Edition of the well-known Tropical Bands Survey. The 36 page booklet covers all broadcasting stations in the frequency range of 2000-5900 kHz and costs surface mail 7 IRC's or 25 Danish Kroner or airmail 9 IRC's or 30 Danish Kroner [from DSWCI, Tavleager 31, DK-2670 Greve Strand, Denmark].

European FM Handbook 1989 2nd edition, compiled by Timo Leponiemi has 170 pages and is printed country by country. The listing is in frequency order and covers Europe, the Middle East and North Africa. Each entry shows the frequency, transmitter power, station location, type of programme and station address. The cost of this book is 100 Finnish Marks in Europe and 120 Marks outside of Europe. Orders to Timo Leponiemi, Box 95, SF-04301 Hyryla, Finland.

A British DX Club specializing in Medium Wave listening has a new 20-page booklet entitled Eleven Years of Trans-Atlantic Medium Wave DX. The booklet lists every station heard in the UK and Ireland since 1978 and contains details of some 750 stations, with information on the date last heard, callsigns and frequencies - including changes. The cost of the booklet is L1.75 in the UK, with the remittance made payable to Medium Wave Circle. Overseas including postage is L2.00 or 7 IRC's (payable by International Money Order or Giro cheque). Orders to MWN Reprints, 43 Atwood Drive, Lawrence Weston, Bristol, BS11 OSR, England."

NASWA has quite a history. To look through old issues of *FRENDX* is to see the Shortwave Broadcast Listening hobby develop and mature. During some of the various gatherings and meetings I have attended, NASWA members have asked questions and expressed an interest in our clubs history. On a trial basis I would like to offer an additional segment to this column:

NASWA, 15 Years Ago This Month.

At that time, *FRENDX* was 40 pages long and organized along about the same page format as the present Journal. The bulletin was ahead of its time by being offset printed; some club bulletins were still mimeographed. Of course, there was no laser printing and all columns had to be done on typewriters. Headquarters was in So. Charleston, W.VA and Dan Fergueson served as both Executive Director and Publisher. Dues were \$10 per year. NASWA/*FRENDX* was considered THE source for SWBC information, hobby news and high quality articles.

From the November, 1974 FRENDX:

The Loudenboomer Report, a monthly column taking a cynical look at the hobby noted that American equipment manufacturers have elected to save on "precious glass, semiconductors and metal by not making communications rigs anymore." Charlie Loudenboomer cheerfully celebrated the "tons of Chairman Mao posters" he had received in the mail from Radio Peking. Loudenboomer also congratulated the DX'er who managed to hear the special test transmission from Cook Island Radio—even though it wasn't audible a block from the station.

The November issue saw Charles Wootten take over the column Shortwave Center from Ed Shaw that month. Shortwave Center was a feature that was the equivalent of "DX'ers Forum, Easy Listening, Technical Topics and *FRENDX* Portraits" all rolled into a single 12 page column. Dr. Wootten took advantage of his close proximity to the F.C.C. offices in Washington, D.C. to examine the construction permits of several domestic shortwave broadcasters to-be. Profiles from the construction permits of WINB, WYFR and TWR, Guarn were written.

In the next pages of Shortwave Center, pictures and short bio's of two DX'ers appeared. Featured were former QSL Report editor Larry Yamron, complete with a picture of him with his Allied SX-190 and Hammarlund HQ-180, and David Ball along with his Realistic DX-150A. David was noted as looking for other Toronto, Canada area DX'ers.

The column also contained a report on GLADXA, the Great Lakes DX Association formed by Kalamazoo, MI member, Andy Robbins.

A very comprehensive, 9 page article on Broadcasting in the Peoples Republic of China was also featured. Radio Peking, the China News Broadcasting Station and the Peoples Liberation Army stations were featured. There was also a very complete by frequency listing of Chinese regional broadcasting stations. The known Chinese Clandestine stations were summarized, all of which primarily operated from within the Yunan Province of China. These included The Voice of the Malayan Revolution, The Voice of the Burmese People and TheVoice of the Thai People. Short paragraphs about The Chinese Fishing Fleet station and time station, BPV were also part of the article.

Many'of today's NASWA members know Larry Magne as the Editor in Chief of the popular Passport To World Band Radio. In this issue of *FRENDX*, Larry was the editor of another regular FRENDX column, Clandestine Bulletin. Part 1 of a series, What Can I Hear, featured two regularly heard clandestine stations, Radio Independent Spain and Radio Euzkadi, the voice of the Basque Underground.

The Headquarters page in *FRENDX* was written by Executive Director Dan Fergueson. Although there were no club announcements this month, member ads much like the ones that appear today were present. Items such as AL Niblack's Hallicrafters HQ-200 receiver were featured in the "Helping Hand" section of the column. NASWA Country List Committee chairman Don Jensen announced the addition of three new countries, Antarctica, Bhutan and Scotland.

FRENDX had a QSL Report column much like the one featured in todays Journal. The November QSL report was 3 pages long and had none of the interesting pictures we enjoy today. Some of the interesting QSL's received were: ETLF in Ethiopia, Laos, Malta (direct), Rhodesia and Syria.

Listeners Notebook had the same format as it does today. Editor Dan Jamison wrote a 3 page column listing mainly schedule changes by the major broadcasters.

FRENDX in 1974 was a very DX'er oriented publication. The four Log Report sections in the November issue occupied 14 full pages and averaged 100 contributors. Log Report "A", edited at that time by Bob Hill was eight pages alone! The format of the Log Reports was the same as it is today, in order by frequency.

That pretty much sums up the November 1974 FRENDX. If you are interested in seeing more FRENDX history on a regular basis, let me know. I would also appreciate a member lending me a few issues. I am missing the December, 1974 issue and have a lot of gaps in 1975.

DX'ers Forum

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

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

October, 1989

Example 1 rnie Behr checks in this month with a tip on Lighthouse Publications, a supplier of high-quality stamp albums. Ernie tells us that they have two items of special interest to SWL's:

First Day Cover Albums with 50 clear plastic pockets and black dividers holding up to 100 postal covers or QSL-cards; padded leather-like covers in red, blue, green, black, brown; overall size 9.5" x 5.75"; order no. FDC2 + color. Price \$23.95 Canadian.

The Orbis Philatelic Atlas lists every stamp issuing territory, past and present; 100 maps in color, plus currencies and historical data; many interesting details for SWLs, map showing borders of all 7 Gulf Emirates, etc; 355 pages, hardcover pocketbook size. Price \$13.65 Canadian. Add \$2 service charge to total order, and order from: Lighthouse Publications, 210 Victoria Ave., Westmount, Montreal, Quebec, H3Z 2M4.

This month's feature article is by John Bryant, who, in addition to getting frustrated by attempts to QSL Greenland (hi!), has made innumerable contributions to our hobby, such as the labor of love called "Fine Tuning's Proceedings." John has a special knack for showing us how to organize information in ways that helps make us better DXers; on many occasions John has caused me to smile and ask myself, "Why didn't I think of that?!" I hope you enjoy his article and decide to keep your own 27-day propagation predictor.

THE 27 DAY RECURRENCE TENDENCY: A DXer's Practical Propagation Predictor

By John H. Bryant with John Tuchsherer

Over the years as my DXing skills grew and I had logged and verified reasonably easy countries, I began to hone my operating procedures and refine my understanding of antenna theory and propagation. I almost memorized George Jacobs' book, and it was there that I first became aware of "the 27 day recurrence tendency." His Figures, 5-9 and 5-10, (reproduced here as Figures 1 and 2), were quite revealing. I must confess though, I did not then transfer my newfound understanding to my DXing habit.

Over the years, I read more and more about propagation and discovered three other books which I found invaluable. (See End Notes). The more I read, the more I realized just how little we know about the things that we care the most about:

a) weak signal propagation in general,

b) the physics/mechanics of dawn enhancement,

- c) the physics/mechanics of graylining, and
- d) the 27 day recurrence tendency.

A great deal is known about the "normal" propagation that occurs 95% of the time. Very little seems to be known about the abnormal 5% of the time that we as DXers find crucial. To make it worse, every author I read kept saying that "the ionosphere (or a particular layer) is NOT a homogeneous medium," and kept referring to "irregularities in the reflecting layer." That generated my favorite propagation quote from Kristen Folkestad's Ionospheric Radio Communications, pp. 239:

"The present evidence shows that HF signal statistics can be nonstationary over periods of 8-12 min. due to the effects of ionospheric irregularities of various scale sizes. These irregularities are sufficiently small to result in

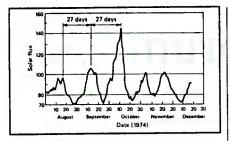


Figure 1 - Solar flux as a function of time (Aug. 1 through Dec. 17, 1974). Note tendency towards approximate 27-day recurrence. (from Jacobs)

significant signal level differences on paths separated by 32 km or less, but are still sufficiently large that most diversity antenna separations can not reduce their effects on the fading of signals.

"Furthermore, most ionospheric paths are nonreciprocal, with the results that there can be large instantaneous differences in the level of signals travelling in opposite directions."

What that means to me is that the bumps, holes and clouds on ions moving about in the solar wind above our heads are chaotic enough that NO body of theory or mathematical model is ever likely to be an accurate predictor of DX success. The real world is just too irregular. After that realization, I stayed in a propagational pout for over a year!

I kept sneaking back to those two charts from Mr. Jacobs' book though, because I kept seeing similar charts in DX magazines. There just had to be something there that I could use as a practical DXers tool. I went back and reread my propagation library, starting with Jacobs, concentrating on what they said about the 27 day recurrence tendency. I gleaned three points. I believe that they represent the current understanding of the 27 day recurrence tendency.

1. There is a recurrence tendency in solar activity as it relates to radio propagation.

2. The period between similar recurrent conditions seems to vary somewhat from year to year and may be as short as 27 days or as long as 31 days.

3. The recurrence tendency is most prominent during sunspot minima, when the sun is quite stable and when individual sunspots may last as long as six solar cycles. However, the most exhaustive statistical study of the 27 day recurrence tendency (*The Effect of Disturbances*, pp. 242) states clearly that, "The degree of the recurrence

tendency varies irregularly. It is not clearly coupled with the phase of the sunspot cycle."

Well, at about the same time I finished my homework, John Tuchscherer, the dean of North American SWBC DXers, sent Mitch Sams a simple 27 day perpetual calendar. John kept notes of the DX conditions he observed over time, and using this calendar, he was able to transfer those tendencies 27-30 days ahead. John's generosity spurred Mitch and I to develop Fine Tuning's Perpetual Propagation Predictor (available from FT's Special Publications for \$2.50). The Predictor is two 11" X 17" sheets, each covering a bit more than six months. The days are arranged in columns which are 27 days long. Each day is provided a space 1/2" X 1" in which to note specific conditions. Using the Predictor is very simple. Fill it out each day and after the first 27 days, you can look to the immediate left of your date to learn

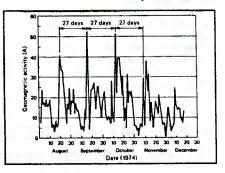
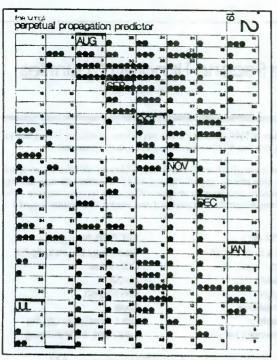


Figure 2- Geomagnetic activity (A Index) as a function of time (Aug. 1 through Dec. 17, 1974). Note approximate 27-day recurrence tendency of values. (from Jacobs)

the conditions 27 days ago. If you wish to look at conditions 30 days ago, look at the box to your left and count up three boxes.

Figure 3 is a cleaned up copy of my predictor and shows June 6, 1988, through January 9, 1989. Everyone has their own code for these things. Mine was ONLY filled out for dawn conditions to East Asia and especially for reception of Indonesian stations. I developed a "five dots" system. One dot means that 1 DXed but that conditions were not especially good. Two dots means the "regular" dawn Indos were stronger than usual. From three to five dots meant that some of the very weakest 150 watt RPDT2 Indos were in with clear audio.

To see how the Predictor helped me last season, cover all but the first three columns. You can see that I started record keeping in mid-June. I was



more than ever, if I hit one good morning, you can bet I'll be at the dials the next morning, too!

Since all my experience using the "27 day recurrence tendency" as a DXer's tool has been on northerly routes to Asia, I wrote and asked John Tuchscherer, as a long-time Latin DXer (started in 1922!!), to relate his experiences with the 27 day solar cycle. He said rather bluntly that he attributed almost half his genuine DX catches in recent years to using a 27 day perpetual propagation predictor. That's good enough for me... my bet is that the calendar will work about equally well for DX targets in every direction.

That's about it. The 27 day calendar is far from perfect, thank goodness, and will work better for you in some years than in others... However, if you want to tilt the odds some in your favor, set up a 27 day calendar like the one here, or order the two 11x17 photocopyable masters from FT Special Publications for \$2.50 + \$1.00 S&H. (FT Special Pubs, Rt. 5, Box 14, Stillwater, OK, 74074).

AUTHOR'S END NOTES

Busic References

Jacobs, George, ed. and T.J. Cohen. The Shortwave Propagation Handbook. Cowan Publishing, Port Washington, NY, 1979.

(This is the basic 'hobby' propagation text and a must for us all).

Davies, Kenneth. Ionospheric Radio Propagation. N.B.S. Monograph 80, U.S. Government Printing Office, 1965.

(This is THE basic professional text. Although somewhat dated, it is still very helpful).

Gassmann, G.J. The Effect of Disturbances of Solar Origin on Communication. MacMillan, NY, 1963.

(Collection of scholarly papers supported by NATO. Excellent).

Folkestad, Kristen. Ionospheric Radio Communication. Plenum Press, NY, 1968.

(Collection of scholarly papers from NATO Institute on Ionospheric Radio Communications in the Arctic. Excellent).

. . .

Figure 3 - Fine Tuning's 27-day Perpetual Propagation

not very serious about it in July. You can see that August 2, 3, and 4, were super and then I went on vacation. When I got back, there were a couple of good mornings and then, nothing! By the 27th of August,'I thought I had two possible DX "nodes" for the next 27 days, the first few days at the top of the chart and something around mid-September. I got all geared up for the top of the chart and EUREKA! THERE IT WAS! From there on, it was gravy. There was a little burst at mid-month, but not much, so I got geared up again for late September at the top of the chart. Sure enough, I got another burst.

There was one very unexpected period of excellent reception during 12-18 October. It is quite isolated on the Predictor. I suspect that this must have been an occasion of "ducting" since both Mitch Sams (120 miles north) and Kirk Allen (60 miles north) reported either average or sub-par conditions during that time period.

The other conclusion which I draw from this chart is that "openings" or "good conditions" generally come in bursts of between 3-7 days' duration. Now that I'm hooked on the Predictor, I don't follow it slavishly, but I do pay attention to it! Now

On Hearing Your Second Hundred Countries

by Vern Hyson

Back in the September, 1987 issue of FRENDX in the DX'ers Forum, Rowland Archer had an excellent article about getting the first 50 countries and the second 50 countries.

[Ed. Note: For those of you who have joined us since September, 1987, the article's theme was about how the nature of DX'ing changes after you successfully log around 50 countries; you start running out of major international broadcasters, and have to struggle with weaker regional stations. The original article included a table giving the attributes of your first and second 50 countries logged:]

ATTRIBUTE

Quality of Signal Availability Schedule Language Intended Audience Verification Policy Time of Broadcast

FIRST 50 Like a local station Year round Regular English International Reliable Convenient for you

SECOND 50

Weak, may be unintelligible Occasional Irregular non-English Local Not interested in QSLing Late night, early morning

[Vern now adds his comments on what it's like to hear the NEXT 100 countries .. - Ed.]

I would like to expand on a portion of that article, namely the attributes of each step heard.

ATTRIBUTE

Quality of Signal Availability Schedule Language Intended Audience Verification Policy Time of Broadcast

THIRD 50

Weak, most unintelligible
With luck & timing
Most rumors are true
Occasional English words
Local 200 mile radius
Sporadic at best
Within 2 hrs of schedule

FOURTH 50

I don't want to sound too sour on the second 100 countries, but I could not help getting a bit of frustration out. Most of all, I don't want to discourage anyone from going for the MAX! One of the attributes not listed above is satisfaction. This attribute grows more and more as each level is attained. A sense of pride in your accomplishment also grows. Yes, the wallet normally suffers, as you get more sophisticated equipment and accessories, but so does your skill at identifying a station with the use of club bulletins, DX news sources and schedules and most important of all, your east and your brain.

You can get a small kick out of having a visitor to your shack as you identify a station that is noise to his untrained ears, tell him or her to listen for the 1D or 1S, have it fill the room, then look at their face!

We have the greatest hobby in the world - let's not keep it a secret! With any sort of luck, your visitor will be hooked and you will have to keep your skills up from some new competition.

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AN OPEN LETTER TO SONY ICF-2001 D/2010 OWNERS

by Gordon Darling (via John Bryant)

Recently, comments have appeared in both the NASWA and DSWCI bulletins about the Sony ICF-2001D/2010. These were respectively, the vulnerability of the front end MOSFET (Rowland Archer, NASWA) and filter modifications (Finn Ritz Joregesen, DSWCI).

Despite its shortcomings, this receiver is the portable of choice for a serious DXer or SWLer to take on a trip. There are many thousands of these units in the hands of DXers.

I am prepared to act as a clearing house for information, hints, tips, modifications, etc. for this receiver. I will undertake to collate all information submitted and ensure publication of the collated/condensed material, probably in Fine Tuning's Proceedings 1990.

So, I would ask all DXers who are able to provide ANY hints, tips, mods, etc. to write to me with the details including, where appropriate, circuit component references, etc. I will set a cut-off date of January 31, 1990. If yon include return postage (2 IRCs surface, 3 IRCs airmail) I will ensure that each contributor receives copies of ALL the submissions. I will then collate/condense the information for publication in mid-1990 for the benefit of all DXers who use this popular receiver. 73's,

Gordon Darling PO Box 3474 Boroko, N.C.D. PAPUA NEW GUINEA

So, there you go all you Sony 2010/2001D owners. You have a deadline of 31 January, so there is plenty of time to get that information to Gordon.

US Amateur Radio Group Announces 1990 DXpedition to Bouvet

Will Chase All-Time QSO Record

from Chuck Mitchell (via John Bryant)

An Indiana amateur radio group today revealed plans for what could be the greatest DXpedition of all time: a 12- to 20-man, fully funded operation on the rarely heard South Atlantic island of Bouvet (the most remote parcel of land on Earth).

The effort by the Legion of Indianapolis DXers the same group behind the highly successful special event station W87PAX — has been in the works for two years and has attracted several major sponsorships. Yaesu-Musen Corp. of Japan has agreed to provide all the transmitting equipment, while the Saturday Evening Post magazine will provide some of the funding. Since the project will also include scientific research on the Norwegian island, a two-man film/photography team representing National Geographic Society will participate in the initiative.

According to plans, the landing team will depart Indianapolis on Jan. 19, 1990, arrive in Capetown, South Africa on Jan. 21 and sail for Bouvet on Jan. 25 aboard the S.A. Deep Salvage I. The anticipated arrival date is Jan. 31; amateur radio operations will commence Feb. 1 and continue through Feb. 12. Using the callsign 3Y0B, the expedition will activate seven transmitters (3 SSB, 3 CW and 1 satellite) that will be manned around the clock for the duration of the effort.

	PLAN	NNED FREQL	JENCIES	
	SS	B	C	W
METER BAND	XMIT	RECEIVE	XMIT	RECEIVE
160	Prohibite	d by Norway	1.825	1.835-up
75 SSB/80 CW	3.695	3.800-up	3.505	3.525-up
40	7.055	7.055/7.200-up	7.005	7.025-up
30	-	-	10.105	10.125-up
20	14.145	14.200-up	14.005	14.025-up
17	Prohibite	d by Norway	18.070	18.080-up
15	21.195	21.300-up	21.005	21.025-up
12	Prohibite	bd	24.905	24.925-up
10	28.295	28.450-up	28.005	28.025-up

Figure 1 - These are the frequencies that the Bouvet DXpedition intends to use. The "Receive" frequency is as shown or as announced during the QSO.

The group will attempt to break the all-time QSO record for a DXpedition — about 39,000, set earlier this year by 4J1FS. The Legion of Indianapolis DXers already holds the record for special event QSOs: 23,270, established by W87PAX during the 1987 Pan American Games in Indianapolis.

Total cost of the DXpedition is about \$120,000, and funding is complete. The effort originally was scheduled for early 1989 — landing permission and a radio license were obtained from the Norwegian government in February — but the trip was postponed a year at the request of the National Geographic and others.

This initiative is in no way connected with a newer effort by a Norwegian group, Club Bouvet, which is currently attempting to raise money for a smaller operation on the island.

For more information on the Legion of Indianapolis DXers' expedition to Bouvet, call Mike Koss at 317-547-1398 (FAX: 317-634-1791) or write Koss at P.O. Box 18495, Indianapolis, IN 46218, USA.

POWER

All stations will be equipped for 600 watt level, but to conserve generator fuel will transmit at 120 watts if conditions are deemed sufficiently good.

QSL

Available a few weeks after the group returns to Indianapolis at the end of February. Cards will be a double fold-out full color photographic confirmation with many interior black and white photos of the island, operators, etc. Requests received with postage or donations will be answered in order received direct. Cards received with postage will be forwarded via the ARRL outgoing bureau in the mid-summer. All cards should be addressed to:

> Joseph T. Pinella, WA9VGY 6316 Greenleaves Road Indianapolis, IN 46220 U.S.A.

AWARDS

"The Bouvet Island Award"

A full color 8" x 10" photo type award suitable for framing will be made available to any station/SWL making contact on three or more frequency bands, any mode or combination of 2-way QSL or SWL. Enclose cards for the contacts or a note with a list via the regular QSL address as shown above. Cost of the award is US\$ 5.00 which includes return postage. Awards will be mailed prepaid, flat, with cardboard protectors.

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Although NASWA's coverage is SWBC, not ham radio, I decided to share this item with you because they will honor correct SWL reception reports, there is a nice award available, and it's a good DX challenge and a chance to hear a rare country. Please remember that ham QSL's are not eligible for NASWA awards or country counting purposes.

See you next month for the last column of the 80's!



Editor: Alex Batman, 300 Hill St., Apt. 6, Boone, NC 28607

SUNDAY

- 1545-1600 <u>Stamp Corner</u> (Radio Sweden International). A run-down of the latest issues of Swedish and other Nordic stamps, giving a brief description of the stamps themselves and some information about the background. (17.880/21.610. First Sunday of the month).
- 0015-0025 Calling All Listeners (Kollsrael). A letterbag program in which Yishael Dar responds to listeners questions about Israel, their comments about the programs, and their complaints. (15.615/12.077/11.605. Repeated at 0215 on the same frequencies).

MONDAY

- 1345-1400 <u>Book Readings</u> (Radio Australia). Each week the program presents a reading from an Australian novel. For the longest time, it seemed, they read from Here's Luck. The current offering (as of this writing—Sept. 26, 1989) is Button Up. (9.580).
- 0110-0130 Newsline Cologne (Deutsche Welle). A current affairs program devoted largely to events in West Germany (but also in Europe in general). Standard features include commentary, press review, and on Monday nights, a wrap-up of the weekend's sporting events. There is also and occasional feature entitles "Ah, Yes, I Remember It Well" which reviews important events that occurred on that date in history. (6.040/ 6.145/9.565. Repeated at 0310 on 15.205 and at 0510 on 6.120). Monday through Friday.

TUESDAY

- 0105-0130 One Norway Street (W.C.S.N.). Christian Science Monitor's magazine program, usually, but not always, including two or three segments per program. Past programs have included a feature on the dancers at the Boston Ballet, how to prevent damage to one's garden while on vacation, and an interview with the manager of Pier 39 at Fisherman's Wharf in San Francisco. (9.850. Repeated at 0305 on the same frequency). Mondays through Saturdays.
- 0215-0230 Health Matters (BBC). A program devoted to health-care issues, usually including two or three short segments per program. Past programs have included features on a guide to general health, the interview with an author of a book detailing the importance of touch in medical care, a self-destructing syringe, and a visit to a school for first aid. (5.975/9.915).

WEDNESDAY

0125-0155 Scrapbook (Radio Prague). Actually one of Radio Prague's better programs. A hodgepodge of features, including "Domestic News Highlights", "Observations on Life in Czechoslovakia", "Cooking Page", and quick-hitting little bits of information on Czechoslovakia (which become the subject of "Quiz Question" at the end of the program) all interspersed with numerous Czechoslovakian rock songs. About once a month, the program is devoted exclusively to rock music, and listeners are asked to select their five favorite songs from about 15 or so. If you're selection meets with the general consensus of all other listeners, there is a prize (but I don't know what). (5.930.7.345/9.540/11.990. Repeated at 0325 on the same frequencies).

0335-0345v Economic Issues (Radio France International). A program devoted to, as the title suggests, economic issues, including preparations for the integrated market in 1993 and also economic issues which affect third world countries. This summer, near the time of the bi-centennial of the French Revolution, one program was devoted to the economic causes of the revolution and another devoted to the economic consequences. (11.670/7.280). Every other week.

THURSDAY

- 1230-1254 Spotlight on Science (Radio Canada International). Part of the larger program "North Country," each week "Spotlight on Sciences" looks at a number of current scientific issues and discoveries. Past programs have featured Canada's first astronaut's comments about Bush's renewed impulse for the American space program, genetic research, the photos Voyager II sent back from Neptune and what they revealed, etc. (17.820/11.855/9.635).
- 2045-2055 <u>Reflections</u> (Radio Damascus). Unfortunately my schedule has prevented me from hearing this program in the past month, but when I listened this summer, it generally included features about life in Syria, including pigeon raising, Syrian wedding customs, and the shops of the Damascus marketplace. (17.710/15.095).

FRIDAY

- 1215-1230 <u>Science Horizon</u> (Radio Finland International). A program about the sciences, particularly as they apply to Finland. Past programs have featured the increase in the Finnish budget earmarked for scientific research, recent findings debunking the idea of "vitamin poisoning", a sociological survey showing that the upper and middle classes get a disproportionate number of seats in Finnish universities, and a survey which shows that despite recent efforts Finnish women are still paid less than men doing the same job and also wind-up doing the lion's share of the housework and childrearing. (21.550/15.400. Repeated at 1315 on the same frequencies).
- 0230v-0235v Letter from Capetown (Radio RSA). Observations on life in South Africa in general and in Capetown in particular. One peculiar note about this program is its defensiveness. I can't seem to remember one week going by that the presenter has not tried to castigate the media for its portrayal of South Africa. But then I suppose that's to be expected. A good number of Radio RSA's programs have that defensive quality about them. (9.580/9.615).

SATURDAY

- 2210-2220 Current Affairs (Radio Yugoslavia). This is not actually a standard program so much as a collection of Radio Yugoslavia's commentaries and editorials. Past editorials have been about economic reform in Yugoslavia, the split in the Warsaw Pact, arms negotiations between NATO and the Warsaw Pact and student unrest in China. (15.105/11.735/9.660. Repeated on 0010 on the same frequencies).
- 0120-0135 To the Top (Deutsche Welle). Once a month Peggy Graham discusses the current trends in the West German pop scene, usually discussing one or two performers in some detail and playing one of their songs. September's program, for example, was devoted exclusively to Katarina Frank and the Rainbirds, one of West Germany's hottest new groups. Most programs, however, focus on three or four performers or groups instead of just one. (6.040/6.145/9.565. Repeated at 0320 on 15.205 and at 0520 on 6.120). Fourth Saturday of the month.

FRENDX PORTRAITS a look at the members of NASWA edited by Tom McElvy - P.O. Box 9645 - Norfolk, VA 23505-0645 E-Mail on ANARC BBS - ODDX BBS - CompuServe 73677,2351

Greetings to the wonderful season of Autumn! This is such a wonderful time of year, when the trees begin to display beautifully vivid colors, the weather again becomes tolerable, and the DX starts to roll in...(especially that last part!). Sorry I missed you folks last month, but my duties with the East Coast SWL Conference kept me from doing everything I need to do in August. The Conference was a great success, owing largely in part to the work of Dr. DX, Chuck Rippel and of course, our guests Kaz Matsuda of NHK, Trevor Morgan of the ILA in England, Bob Brown, KW3F, and Robert Horvitz of ANARC. The show will be held again next year, the same weekend. But on to other things ...

This month we hear from Edward Stroh of Thornton, Illinois.

"My DXing career began about 22 years ago when I was 15 years old. My first receiver was a Knight-Kit 'Star-Roamer' which cost around \$39.95 and I assembled it myself. It was my first real electronics project. I remember how proud I was when I turned it on for the first time and it actually worked! That is when the DX bug bit me. I was amazed at how many stations from every corner of the globe that I was able to hear and how good their signals sounded on my modest equipment. A couple of years later I traded my Star-Roamer (for sentimental reasons I am sorry now that I did) to a friend for a Hallicrafters SX-110. The Hallicrafters was quite a step up from the Star-Roamer; it had much better selectivity and sensitivity than the Star-Roamer. In 1976 I purchased the receiver that I use not plane to upgrade to any of the fancy new receivers with digital display and all those other goodies.

"I joined NASWA in 1977 and then dropped out in 1986. I just became so busy with raising a family and working a lot of overtime on my job and fixing up my house that I sort of lost interest in SWLing. Then, a little over a year ago, I moved. The DX bug bit again. I rejoined NASWA and set up my 'radio shack' in a room that I built in the basement. I also set up my Color Computer 3 there, and keep a computerized log with it and use it to generate reception report forms. I installed an end fed 65' long wire antenna from the house roof to the garage roof about 15 feet above ground level. Other accessories include a Gilfer M-1 Multituner and a cassette recorder. My current totals are HIC-86 VIC-69. I am having a difficult time raising my totals higher because I am running out of countries to QSL that broadcast in English. I hope to get much more involved in the hobby now and to become a regular contributor to the FRENDX magazine. I am also working on becoming a novice amateur operator. All I have to do is get the mmorse code down pat and then try to come up with the money for a transmitter. Even after I get my ham license, I plan to be active in SWLing vecause that is where my roots are. 73 and good DX to everyone!"

Ed also noted in his letter that he is interested in hearing from any readers in the southern Chicago area about getting together. His address is 53 Arrowhead Drive, Thornton IL 60476.

Technical Topics

Edited by Ted Benson, WA6BEJ General Delivery Morgan Hill, Ca. 95037 (408) 970-4325

I must apologize for the appearance of this month's column, but it is literally out of the ashes - somewhat like the Phoenix. I am writing from a motel room, as my house is not safe to re-enter. I must also apologize in advance for the content of the following topic: it is not precisely about technical subjects. What it is instead is a story about what happened to me and to my community these last two weeks, and how radio - both broadcast and amateur - literally made a difference.

LIVING ON THE FAULT LINE

Until October 17th of this year, there was an often repeated commercial on local television. It began by showing scenes of the "Bay Area," a region which encompasses San Francisco, San Jose, the "Silicon Valley," and a myriad of other cities. After showing people enjoying the diverse pleasures these areas had to offer, the ad went on to say: "6 million people are living on the fault line - and nobody's leaving. It must be something special..." I always thought that this ad tempted fate.

I was right. At 5:04 PM on October 17, parts of Northern California were devastated by a magnitude 7.0 earthquake.

I had just come down from my roof, where I was changing some coax, when I heard what I thought was a sonic boom - except that it didn't stop. An entire squadron of jets couldn't cause this, I thought.

We live with the constant presence of earthquakes here in California. Major cracks in the earth - fault lines - run the length of the state. Along these lines two parts of the continent are trying to move in opposite directions. It is a tenuous stalemate, and sometimes the pressure gets too great. When it does, huge amounts of force are released suddenly. The shock wave is an earthquake. Unlike the yearly threat of tornadoes and hurricanes faced by folks in other parts of the U.S., Californians have grown complacent to the hundreds of minor quakes that occur every month. Many tremors are not noticed at all. A major quake is a rare occurrence. So when the shaking began on October 17th, most of us stood still, waiting for the shaking to subside. It didn't. It grew stronger and stronger, until houses - and the ground - were shaking hard enough to make standing up difficult. The quake lasted only 15 seconds, but like an auto accident it seemed to go in slow motion.

I could see the local damage from where I stood in my front yard. Power poles were tilted and broken glass was everywhere, but the houses were still standing. Not so bad, I thought.

As soon as the quake was over I went into my radio room. Because aftershocks can occur I grabbed all the battery operated radios I had and went back outside. On my way, I noticed that the main ceiling beam was cracked in half, and the floors tilted noticeably.

In the safety of my front yard, I tuned the AM radio up and down the dial. The first thing I noticed was that *all* the San Francisco stations were off the air! My God, I thought, did the quake start in San Francisco? If the quake was this big here in Morgan Hill (80 miles south) and it started in San Francisco, was San Francisco still there? Of course, none of our local stations were on the air, but we had no power - the single electrical feeder station for our power was undoubtedly damaged.

I turned on the scanner. The State Office of Emergency Services (OES) was already passing traffic relating to calling-up essential personnel. The Morgan Hill Police and Fire Departments were recalling all personnel, and the California Highway Patrol was ordering officers to patrol the freeways slowly and report damage. The Red Cross repeater, on which I had never before heard traffic, was coordinating the inventory and distribution of supplies.

I turned on my two meter rig, and got ready to check in to the Amateur Radio Emergency Service (ARES) repeater. The ARES is a nation-wide group of volunteer amateur radio operators, who form the official communications branch of the American Red Cross in an emergency.

The first thing that slows in a disaster is communications, so information on the ARES repeater was slow to appear. Initial assignments of volunteers were made to local hospitals, city halls, and Red Cross Centers. We practice for this all the time, but in an emergency you are lucky if 20% of your resources are actually available. I guess our 20% was enough. People controlled their fear, as well as their desperate need for information, while they passed traffic on a calm and even courteous manner. I suddenly felt a little pride in how my community was behaving.

As San Francisco broadcast stations began returning to the air, we learned the horrible details of the quake. Its epicenter (starting point) was actually less than twenty miles from my location! But San Francisco, although some 100 miles from the epicenter, had suffered some of the worst damage. Entire apartment buildings collapsed. Good timing, I thought, since most people would be stuck in the rush hour traffic, away from home. But that was the problem... Freeway overpasses had fallen, crushing cars beneath them. One freeway, the I-880, is a double-deck affair - like one freeway stacked above another. At 5:03 PM, both levels were packed with cars sitting in bumper-to-bumper traffic. At 5:04 PM, every car in the lower deck of the bridge was crushed, as the upper deck fell onto the lower deck, making what one reporter called a concrete sandwich. It was estimated that the bodies of several hundred people still lay in the ruins of the freeway.

Within a few hours of the quake, several 2 meter amateur radio repeaters were back on the air, and were assigned special designations. Emergency traffic was on one repeater, health and welfare information on another, and a separate hospital net on still another. This arrangement offered the smoothest flow of information possible. Amateur radio operators were working side-by-side with professional dispatchers at the county's communications center, and radio monitoring enthusiasts were enlisted to monitor radio reports, and then repeat what they had heard to those who had no radios. A special net, for inquiries relating to the health and welfare of those within the disaster area, was established in the amateur radio 20 meter band, at 14.292 MHz, upper sideband. This provided a vital link to the outside world at a time when phone service was all but nonexistent, and proved what we SWL's have known for a long time: shortwave means distance.

I sure was glad that I had taken the FEMA home study courses. They prepared me not only for what I had to do, but through them I knew what to expect from the local, state, and federal governments in the time to come. [Sorry, I don't have the address - it's under what is left of my house. But I urge you to write to FEMA in Washington, D.C. for a list of these excellent, free courses. You

even get a certificate of completion when you pass the final exam.]

As with many disasters, many people learned too late the need to prepare. Such simple things as flashlights, bottled water (*in plastic bottles*), and portable radios with fresh batteries were in short supply, yet were so critical to life just after the emergency. In Morgan Hill, many unprepared people were lucky - merchants like the Safeway Grocery Store were outside, handing-out necessities at little or no charge - even while their own stores inside lay in shambles.

It is now a week after the quake. San Francisco has its electricity back, and communities further south, like mine, have cleaned up the glass, and put things back on the shelves. We are only now taking the time to talk about what has happened, and I am beginning to understand the "post traumatic stress syndrome" first described after Viet Nam. One other thing has emerged from the ruins: the discovery of how we can come together in a disaster. People put aside their own feelings and manned radios at emergency center. Non-hams found that they, too, were critically needed to relay information and respond to broadcasts requesting volunteers. SWLs put to use their skills at listening, as well as their portable and battery powered equipment - maintained so well as proof of devotion to their hobby - in rebuilding, and in helping their neighbors to rebuild.

They say that not knowing is the worst part of a disaster. In this case, the men and women who work with radio as a profession or a hobby used their talents as they most needed - for the public good.

I knew we were on our way to recovery this morning, when I heard the D.J. for station KOFY - in San Francisco - say: "hold on, were about to go back to 50KW." And with that, their flea-powered emergency transmitter was shut down, and the usual fullpowered signal returned.

NO COLLECT CALLS ON THESE ADS UNLESS INDICATED.

FOR SALE: Signal Corps receiver BC1068-A from WWII tank. Make offer. I will deliver 150 miles from Springfield, OH. Harry L. Smith, 3740 Bosart Road, Springfiled, OH 45503.

FOR SALE: Entire set of Popular Communications, 9/82 to 11/89. Most in excellent condition. Best offer. ALSO: Sangean SG-702 new in box, \$20.00. Terry Palmersheim, 402 21st Street S.E. #63, Auburn, WA 98002. Phone (206) 833-3112.

FOR SALE: Datong FL-3 Multi-Mode Filter, \$135.00 plus shipping. Autek-QFTA SSB/CW/AM filter, \$50.00. Both in mint condition. Steve Leite, 190 Healy Street, Fall River, MA 02723. Phone (508) 675-2830 between 2100 and 0100 UTC.

WANTED: A used Kenwood 5000 or NRD 515 in good or excellent shape with possibly a narrow band voice filter. Price must be reasonable. I will accept collect calls. Anthony Giszack, 7-08 Essex Place, Fairlawn, NJ 07410. Phone (201) 796-5312.

FOR SALE: NRD-525 receiver with CLF 218 1.9 filter and Collins 2.9 filter. Also has chip installed for tuning in 10 kHz steps. Mint condition. \$800.00. Stan Cabral, 2254 62nd Avenue, Oakland, CA 94605.

FOR SALE: Customized Beam Headings (from/to) and Distances (MI/KM) to over 435 WRTH-89 transmitter sites. Useful in selecting alternate transmissions and choosing listening times based on distances. ITU Country Codes included. Send your location/coordinates. \$6.25. "Passport to World Band Radio" '89, \$9.75. WRTH '87, \$8.50. Gilfer Confidential Frequency List and Guide to RTTY Frequencies #6, \$4.00. All items include postage. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398.

A Review of Fine Tuning's PROCEEDINGS 1989 By

Richard A. D'Angelo

In the Introduction, Senior Editor John Bryant notes that "it appears that PROCEEDINGS is filling a need for indepth articles that neither radio club bulletins nor the commercial hobby press can meet". Simply put, Bryant's remarks are an understatement. Last years highly acclaimed premier edition was a complete sell out. This years PROCEEDINGS follows in the footsteps of its very brave older sibling by offering the hobby community a very complete and invaluable resource that truly is a must for every equipment or accessory fanatic, antenna enthusiast, or DXer.

PROCEEDINGS 1989 builds upon the structural conerstones that John Bryant and company laid down last year. The process starts with a dedicated editorial review board featuring Senior Editors Bryant, Dave Clark, Guy Atkins and Fritz Mellberg. Other panel members include some of the more prominent names in the hobby community such as Don Jensen, Gerry Dexter, Chuck Rippel, Mitch Sams, Mark Connelly, Nick Hall-Patch, Dallas Lankford and Chuck Bolland. What all this means is that the PROCEEDINGS reader will enjoy a book that has been put through a rigorous screening process that makes it both accurate and readable.

Fine Tuning's PROCEEDINGS series is quickly becoming <u>the</u> technical reference work for the shortwave hobbyist. Plans are being developed for a 1990 edition. This is one item that should be sitting on every hobbyists bookshelf. What follows is an individual look at each of PROCEEDINGS five main sections.

PROPAGATION (15 pages)

PROCEEDINGS continues its indepth handling of propagation matters. In this years feature, "The Auroral Factor", propagation expert Dave Clark studies auroral conditions to enable the tropical band DXert Dave Clark studies anticipate when unusual openings allow for extraordinary opportunities to log domestic Asians. This extensive article features numerous azimuthal equidistance maps which significantly aid the discussion. Dave spends much of his DX time concentrating on Indonesia, Papua New Guinea and the Asian continent so he speaks with a good experience base about DXing these areas. Definately well worth reading.

ANTENNAS (40 Pages)

This section consists of five superb articles designed to improve a DXers ability to hear that rare or weak station. This section enlightens the DXer on delta loops; construction of a remotely tuned, amplified loop antenna suitable for DXing the tropical bands; directional shortwave antennas; phasing units for shortwave antennas; and a practical guide to putting up and taking down beverage antennas.

RECEIVERS (31 pages)

Once again PROCEEDINGS offers a wide variety of extensive receiver reviews in six articles that should please the receiver junkie. Some old favorites of the tube era such as the Collins 51J-4 and the Drake R4B and R4C are featured. In addition, some of the better known gear from the 1980's like the Yaesu FRG-8800, Kenwood R-2000, and the Japan Radio Corporation's NRD-525 are featured. However, my pick from this group is "The Icom IC-R70" article written by Kevin Atkins, John Tow and Jerry Strawman because I am an R-70 owner. The article provides a comprehensive review of the receiver that has one of the most complicated tuning schemes devised and provides a summary and brief description of eleven different modifications.

PERIPHERAL EQUIPMENT (19 pages)

Radio enthusiasts are always looking into the latest toys and gadgets to improve receiver performance. This year PROCEEDINCS offers another selection of goodies for the DXer to consider. Among the gear reviewed is the very impressive Multiband AM Pickup (MAP) Unit. This gismo provides synchronous detection and improved audio fidelity and selectivity in an effort to enhance a receivers audio output. Once again, the Fine Tuning gang is on top of the latest developments.

FEATURES (92 pages)

This section is a DXers dream. If you have absolutely no interest in the technical aspects of the hobby, i.e. propagation, antennas, receivers or peripheral equipment, this section makes PROCEEDINGS a worthwhile investment by itself. This is by far the biggest section of the book and in my opinion the best. Many of the features would take months to run in serial form in any DX club bulletin. PROCEEDINGS puts it all in one place. For those with an interest in Indonesia the "A Javan Fantasy" by Bill Sparks is must reading. The fifteen page article includes maps, illustrations and station lists that really pull the entire package together. Just as impressive are the articles "DXing the Arab World" by Hans Johnson and "DXing Brazil" by John Fisher. The former provides a very descriptive account of shortwave broadcasting in twenty-two countries of the Arab World. The latter provides a wealth of information about Brazil and DXing that areas many targets which are contained in the very up to date station list. Like "The Javan Fantasy" these articles are must reading. Why are these articles must reading? The detail, care and approach of the subject matter can never be attained in a restricted club bulletin format. These are very serious pieces of DX perspective.

There is much more. "QSLing the Latins" by Don Moore and "Caring For Your QSL's" by Jerry Berg cover the getting and perserving aspects of verifications. Don Jensen put together a very interesting article on "Counting Countries" which provides the philosophical, political, geographic and traditional aspects used in developing and maintaining the NASWA country list. For many the subject of radio countries is a very serious subject and this article puts the best known, and highly regarded, country list in the spotlight. Rounding out this section are features on international medium wave DXing, and various tip/reference/reprint resources.

Is PROCEEDINGS Worth The Higher Price?

Definately - YES! PROCEEDINGS 1989 provides over 300 pages of relevant hobby information in 220 pages of print thanks to the photo-reduced format used this year. The specialized nature of PROCEEDINGS results in small, low-volume print runs that are expensive. Last year, the PROCEEDINGS effort lost almost US\$1,000.00. This years price reflects the lessons learned from last year. Hopefully, PROCEEDINGS 1989 will recoup those prior losses and this extraordinary hobby enterprise can continue.

PROCEEDINGS 1989 costs US\$19.50 plus US\$2.00 postal costs in North America. Outside North America surface book rate postage is US\$3.00 and small packet airmail is US\$15.00. Make checks or money orders (US funds on a US bank only) payable to:

Fine Tuning Special Publications c/o John H. Bryant RRT #5, Box 14 Stillwater, OK 74074 U.S.A.

Enjoy the finest hobby reference work that DXers can develop for DXers.

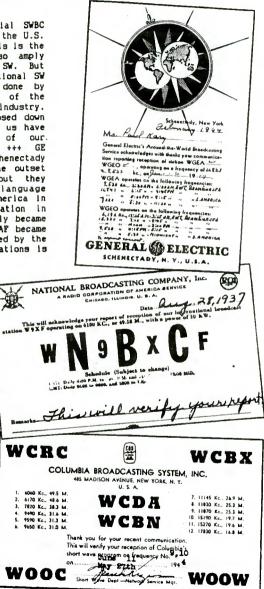


COMMITTEE TO PRESERVE RADIO VERIFICATIONS

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

With all the new commercial SWBC stations that have started up from the U.S. in recent years, you might think this is the first time the U.S. has been so amply represented by private interests on SW. But Before WW II all international SW not so. broadcasting from the U.S. was done by private companies, including some of the biggest names in the broadcasting industry. These stations were eventually closed down or absorbed by the VOA. Most of us have little knowledge of them, or of our. country's considerable SW history. GF +++ started SWBCing in 1924 with Schenectady stations W2XAF and W2XAD. At the outset they relayed MW station WGY, but they eventually commenced foreign language programming to Europe and South America in In 1937 GE opened a station in 1931. Selmont, CA--W6XBE, which eventually became W2XAD became WGEA, and W2XAF became KGEI. WGEO, both eventually being absorbed by the A 1944 card from the GE stations is VOA. shown at the top right.

Chicago station W9XF carried NBC eventually programming, as this 1937 card shows, but it started out as a SW frequency of the Great Lakes Broadcasting Co.'s MW station, WENR, putting out 5 W9XF was kw. on 6020 kHz. WEND Intended to transmit programming to foreign countries for rebroadcast by local stations. This, rather than direct broadcasting to overseas listeners, was the purpose behind much of the CBS was early SWBCing. +++ In the SWBC game long before 1944, the date of this card. W2XE, as it was first known, opened in 1928, carrying the MW programming of WABC. Power went from 250 watts to 10 kw in 1937. The station was "a good station to test on because of its consistent By May 1942, CBS operation." international had an broadcasting staff of 89 people.



A Committee of the Association of North American Radio Clubs



isteners Notebook

Editor: Bruce MacGibbon, 2295 NE Juniper Ave., Gresham, Ore. 97030

NOTE: BBC Monitoring Service Items (designated WBI for World Broadcasting Information are copyright and may not be reproduced without BBCM permission)

- ANGOLA (Tentative) Radio Nacional de Angola, Luanda On 5324.5v, an Angolan drifting (5324.1-5324.7) around this frequency audible from 2115 or so with jazz-pop vocals and Portuguese announcements; RNA vibraphone IS on the hour, then news. Rather weak and hard to read amid QRM and other miscellaneous band noise on 10/1. This is probably Luanda's 60-meter outlet, which was on 4953 for quite some time, then drifted around 4926-27 for a while in late summer before disappearing entirely. No doubt they're experiencing the same kinds of transmitter problems that caused them to wind up near this spot about five years ago. (Bob Hill, MA)
- ARGENTINA Ref LN Oct 4th pgm time for RAE EG is 22-23. The transmitter Harris, 100 kW, actually is inactive, and 15345 khz uses the General Electric alteratively with 9690. DXers Special programme, broadcasted Wed, and Thu only between 04-05. (Gabriel Ivan Barrera via "DX'ers Calling", The Monthly Magazine of DX Australia 9/89).
- From July 1989, the new General Director in LRA Radio Nacional, is Mr. Julio Marbiz. Sked of LRA1 Radio Nacional Buenos Aires on SW, all transmissions in SS languages in// to 870 khz MW.: 6060 Sun-Mon 01-15, Tue-Sat 01-11 (A). 9690 Mon-Sun 05-11. (B). A = The transmitter is a old Standard Electric with 50 kW power; B = The transmitter is a old General Electric w/20/25 kW power. (Gabriel Ivan Barrera, ibid)
- BELGIUM RTBF Radio Four International. RTBF is the broadcasting organization of the French-speaking community in Belgium. This service mainly consists of relays/rebroadcasts of domestic service External-service programme output is restricted to programmes. feature programmes amounting to about 17 hours a week. During summer time in Belgium, all transmissions will be heard one hour earlier than shown in this schedule. 0430-05 Mon-Fri FF Af 13740, 11660; 05-0530 Mon-Sat FF Af 13740, 11660 including Mon-Fri News (from RTBF-Radio-1); 05-0530 Sat Programme for seamen; 05-0530 Mon-Fri Overseas service messages; 0530 News (from RTBF-Radio-1); 0530-0615 Daily FF Af 13740, 11660 including 06 Mon-Fri News (from RTBF-Radio 1); 0630-0735 Daily FF Eur, Af 17675, 5980 including News at 0630 Mon-Fri (from RTBF-Radio 1); 07-0712 Mon-Fri News (from RTBF-Radio 1); 0735-1055 Sat & Sun FF Eur, Af 25645, 9925; 11-1130 Daily FF Eur, Af 25645, 9925 including News 11-1115, 1115-1130 Mon-Fri Press Review (from Radio 1); 1130-1145 GG Eur, Af 25645, 9925 including 1130-1145 News (from BRF-1); 1145-1305 FF Eur, Af 25645, 9925 including 12-1230 Sat & Sun RTFB Radio-1 (News), 12-13 Mon-Fri RTBF-1 (News & features), 1230-13 Sat Programme for Seamen, 1230-13 Sun DX pgm; 1305-16 Sun FF Eur, Af 25645, 9925; 16-1645 FF Eur, Af 21460, 9925 including 16-1645 Mon-Sat Service for Belgians abroad; 17-1905 FF Af including 17-18 Mon-Fri Relay of Radio 1 (17-1710 News), 18-1830 Mon-Fri Relay of Radio 21, 1830-1930 Sun "The Week in Belgium", 1830-19 Tue, Thu Programme for Missionaries, 1830-19 Fri DX Pgm; 19-1905 Mon-Fri News (from RTBF Radio-1); 1905-2115 Sun, Wed, Sat FF Af 17675, 15540 including 2030-21 Sat Programme for Seamen, 21-2105 Sun, Wed, Sat News (from RTBF Radio-1) (WBI 10/13)
- BRAZIL The correct address of Radio Nova Esperanza is: Rua Jose de Alencar, 1296; 90640-Porto Alegre, RS, Brasil. (Gabriel Ivan Barrera via "DX'ers Calling", The Monthly Magazine of DX Australia 9/89) 17755, 1742, R. Surinam Int'1, EE just ending into Dutch w/M w/ID and sked on 10/9 (bmm)

CANADA - John Carson, OK received this letter from 'RCI' and asks all

NASWA Members to write to CBC in support of RCI1 and he received this letter: Dear Listener: Thank you for your most recent letter. We assure you that Radio Canada International appreciates all the letters and cards received from our many listeners in support of RCI at this time. Their correspondence is the single most important form of listener feedback for an international shortwave broadcaster such as RCI. Not only does audience mail let us know how our programming rates, but it also gives us the opportunity to know something of the listener--whether a novice to shortwave or an old fan of RCI. Thank you again for writing, and we hope you will continue to enjoy our broadcasts. Yours sincerely, Judith Sauve, Audience Relations, Radio Canada International, P.O. Box 6000, Montreal, Quebec, Canada H3C 3A8. <u>15325</u>, 2200, RCI, SWL Digest at 2210 but only light music during the news. Strike? on 9/30 (Hans Johnson, GA)

- CHINA Radio Beijing EE Sked t/ NA from 11/6: ECNA: 0000-01 9770, 11715, 9665; 03-04 9690, 11715; 04-05 11695; 05-06 11840; 11-12 & 12-13 9665. WCNA: 03-04 9770, 17855; 04-05 11695; 05-06 11840; 14-16 7405. (Lifang, Audience Relations EE Language Dept, Radio Beijing) Via 'Asia Watch' 10/15: "Wu Xiaoyong, the producer of an unauthorized radio program which announced on 6/4 that thousands had been killed in the military crackdown, was arrested at the end of August according to 'Asia Week'. Wu is the son of the former Foreign Minister Wu Xuegian." And via a reliable source that wrote
 - me a letter: "Some Day Wu Xiaoyong will be a hero in China." Updating Announcer list: Audience Relation People as announced on 10/2, Radio Beijing's 40th Anniversary Special: Yan Aisen, Zhang Yanling, Yue Silei, Cui Wong, Gui Lin (all Women) Wei Hua(W)-Music Album on 10/9 ex Xiao Shan(W)), Morris Mathews(M) - Business Show (Fortnightly program) 10/14; Liu Hui(W) - Listeners' Letterbox on 10/23 replacing Wei Hua. On Radio Beijing, I heard a person by the name of "Li Dan" announce "Current Affairs" on 10/10 around 1926 and then on 10/11 to NAm on the EE programs, "Current Affairs" is a Mon-Fri Program and didn't hear Li Dan again till 10/19, so he does not announce "Current Affairs" every day, rechecking tapes of Radio Beijing, I found this same announcer on 10/2 Radio Beijing 40th Anniversary Special. Also same announcer that made June 4th Statement on Radio Beijing. Xiao Du w/News About China on 10/21. Yu Xinglu(W) w/News About China on 10/22. Li Jianhua(M) also shows up sometimes doing "News About China". Rong Jie(W) w/"Travel Talk" on 10/22 (bmm) Wei Liang(M) heard doing different jobs on Radio Beijing but on 10/2 was a reporter from a park in Beijing.
 - Preferred spelling of Chinese Names: According to my friend from Mongolia, Pinyin spelling is preferred spelling of Chinese names. This was researched after Bob Hill, MA advised me the proper spelling for Nei Menguu PBS (Pinyin Spelling) should be Nei Mongol. I then checked 'Passport to World Band Radio' and they show 'Inner Mongolia' as Nei Monggol. Should be Nei Menggu & I should point out that not all Chinese Students are familiar with Pinyin spellings, so you have to be careful who you ask as has been pointed out to me by numerous Chinese students. They always refer me to my Mongolian friend. The other spelling is Wade-Giles. For example Peking is Wade Giles & Beijing is Pinyin. If you are interested in China, I suggest you obtain "The China Guidebook" (640 Pages, Paperback) by Fredric M. Kaplan & Arne J. de Keijzer, Houghton, Mifflin Company, Eurasia Press. (bmm)
 - China off summertime since 9/17. Before the "National Hookup News" (12-1230 CPBS-1, 14-1430 CPBS-2) on China People's Broadcasting is heard "Every Heart is to The Motherland". This was also sung by a choir at the end of the 40th Anniversary Festivities at Tiananmen Square which I heard on CPBS-2. Also on that broadcast, I heard "Chairman Mao declare that Peoples' Republic of China is built now and Chinese are up forever." This was a movie being shown as part of the Tiananmen Square Festivities. (Thanks to a Beijing University Student who arrived in Portland, OR around 10/1 and had to watch this movie before he left China. He will be here for a couple of years and has actually been asked by "The Director of the Northwest Regional China Council" to help me with what I am hearing on the Chinese Domestic Services.)
 - From what appears to be a fairly new Radio Beijing brochure, some interesting observations: On the 40th anniversary of Radio Beijing's inaguration Chinese leader Zhao Ziyang remarked... (Well

now Zhao Ziyang's name has a blue ink line through it. Also telephone #s are listed for Radio Beijing's English Department: <u>Director's Office:</u> 868581-2274; <u>Audience Relations:</u> 868581-2760; <u>Current Affairs:</u> 8013134; <u>Newsroom:</u> 862691. Note: Except for 'Director's Office', these numbers differ from what was in Glenn Hauser's 'DX Listening Digest' Issue 26 w/closing date of 9/5/89 & last but not least, there is a picture of Lifang, Audience Relations of Radio Beijing, who incidentally mentioned me and my family on the "Listeners' Letterbox" special on 10/2. The Audience Relations People were introduced and they talked about some people that have written to them. If you were listening to that program, Lifang, in a letter, lets me know that she was the one who suggested to sing a song for our friends: "The More We Get together, the Happier We'll Be". She was sitting in the front row in front of the microphone.

Radio Beijing Highlights of Features for November:

Music from China: The Zhuang nationality boasts the largest population among China's ethnic minorities. The Zhuang people are renowned for their singing ability. On the first fSaturday of November, you'll be able to enjoy the beautiful Zhuang folk songs, lullalby and unique ethnic music played with the traditional Zhuang instrument----the horse-bone-fiddle. Join us if you don't want to miss this opportunity.

Listeners' Letterbox: Ecological and conservational matters may sound academic or heavy. Yet, they are problems we face everyday. What measures has China taken in these respects? Find the answer in our Listeners' Letterbox program on Sunday.

in our Listeners' Letterbox program on Sunday. <u>The Lotus Flower Lantern Festival</u> held in Beijing's Beihai Park from July to September attracted thousands of visitors. This fascinating flower has aroused a great interest among our listeners, too. In our Letterbox program on November 19th, we'll tell you more about this flower.

<u>Culture in China</u>: People of minority nationalities have colorful and distinctive courting and marriage customs. Culture in China on November the 9th will feature music and stories about these events in Yunnan province.

Travel Talk: Hebei Province in northern China boasts many historical sites and scenic spots. In November, Travel Talk will take you to some of these beautiful places: Handan, a 2,500-yearold city--on November 4th; Shannaiguan, the First Pass on the east end of the Great Wall--on November 11th; and Chengce, China's largest imperial garden--on November 18th.

China Anthology: Zheng Banqiao was both a painter and writer who lived in the Qing dynasty between the 17th and 18th centuries. He is known as one of the "Strange Painters of Yangzhou" because his works never followed the tradition. And it's because of this, Zheng Banqiao held a very important position in the history of Chinese painting. People feel very proud to include Zheng Banqiao in their collections. On Sunday November 19th, Zheng will be the topoic of our China Anthology program.

Nei Mongol PBS, Huhhot - On 7108v (varies to 7107.6), presumed this one from 1010 w/W & M in CC; occasional interludes of music, notably the first several bars of Beethoven's "Moonlight" Sonata on 9/18. (Bob Hill, MA) ID from Bruce MacGibbon in DX Spread. (Note: My Mongolian Friend tells me that the perferred spelling is Nei Menggu, Hohhot. He tells me to use the Pinyin spellings for Chinese names (bmm))

Further observations on Yunnan PBS: Monitoring research 19-21 Sep 89: Observations on the Yunnan PBS, Kunming, on 6035 kHz between 19th and 21st September have revealed the following broadcasts, all in Vietnamese:

gmt programme

0000-01	Rebroadcast of 14-15 Radio Beijing Vietnamese pgm
0100-0130	Yunnan PBS programme of news and features
09-0930	Yunnan PBS programme of news and features
0930-1030	Rebroadcast of earlier Radio Beijing Vietnamese pgm
1030-11	Repeat of 09-0930 Yunnan PBS pgm
2230-23	Yunnan PBS programme of news and features
23-24	Rebroadcast of 11-12 Radio Beijing Vietnamese pgm

 $\underline{10015NF},\ 1524,\ CPBS-1,\ CH Opera music ex 10010 on 10/7 \ (bmm) \underline{11960-11972},\ 1645,\ CPBS-1,\ Distorted signal jamming VOA on 11965, and CPBS-1 on 5955 at 1651 jamming VOA on 10/14 \ (bmm)$

- COSTA RICA Via Radio For Peace Int'l Mailbag Pgm on 10/17: Changes to broadcast sked: 0430-0730 Mon-Fri (Weekend broadcasts remain the same) generally a repeat broadcast of earlier program on 7375USB beamed to WCNA and Pacific Area. Weekend Broadcasts on 7375USB at 0600. Repeat 3 hours of programs, 3 times, so will run up into the early morning hours. No changes on that, they've been continuing that schedule. Note: Once in a while some of these broadcasts will be off the air due to work being done on equipment at station and need maintenance hours. In the morning there will be cutbacks because of old problems of interference with being in combined facility with television and video production studios here and therefore will broadcast only two hours in the morning 14-16 only Spanish programs on 7375AM t/Central America & 13660 t/US and as well possibly heard in Europe. Interested if heard in Europe. For the immediate future the 14-16 mostly in SS. Will be back on to longer hours possibly in December when they are hoping for some expansion. They have plenty of land at the university to expand. Up the hill from the present studio about 300 or 400 meters hope to have a new transmitter site and maybe a new transmitter to go along with it a few months down the line. (bmm)
- CZECHOSLOVAKIA 9505, 0715, R. Prague, Inter program, M w/ID in EG & giving address then W in language. At 0731-0732 M w/news in EG into music. At 0736 W GM t/0742 into FR. At 0747 M in language into music at 0749. RR at 08 on 10/14 (bmm)
- ECUADOR Press Release dated 10/5/89: Excerpts of: Saturday Edition of "DX Partyline" Suspended. Because of the recent appointment of Brent Allred as director of HCJB's English Language Service, the program "DX Partyline" has been temporarily cut back to one edition a week. The program will now be heard on Mondays only. The present format of "DX Partyline" will remain unchanged. Features that are scheduled for specific Monday broadcasts will continue to play on those days.

specific Monday broadcasts will continue to play on those days. Replacing "DX Partyline" on Saturdays will be two 15-minute programs: "Get Set" and Whistlestop." "Get Set" is a British-produced program which features interviews with sports personalities and covers various sporting activities, while "Whistlestop" is a Scottishproduced program which discusses contemporary issues.

Any listemers who would like to comment on the cutback of "DX Partyline" are welcome to do so. Write "DX Partyline," HCJB, Box 691, Quito, Ecuador, South America. (Direct)

FINLAND - EG 0000 on 9645NF ex 15185//11755 on 10/5. (bmm)

- FRANCE RFI observed to broadcast two separate services in French. Radio France International, Paris in French 1230 gmt 25 Sep 89. Text of announcement: In a moment it will be 1330 hours in Paris, 1230 hours Universal Time. On the second network in a moment you will hear out usual news, and on the first network the news programme "Afrique Midi"...(Editorial note: Since the introduction of RFI's winter schedules on 24th September a separate service in French for listeners in Africa has been observed at 1230 gmt.) (WBI 9/29) <u>12015</u>NF EG at 16 (bmm)
- $\frac{\text{GREECE}}{\text{Hanlon, PA}}$ Voice of Greece noted on 12105 w/EG at 1840//15630 & 11645 (Joe

 GUAM
 - KHBN, Piti, Guam, Final Operating Sked Øl 11/5-Øl 3/25: 9830* 10

 16 China; 9840* 20-24 China. (George Jacobs & Associates Inc., MD)

 KSDA Final Operating Sked D-89 Øl 11/5-Øl 3/25: 9495 20-22; 9650 13

 14; 11980* Ø9-17, 20-21; 13720* Ø2-13, 14-17; 15125 22-Ø2; 15225 22

 Ø9; 15310 21-22. * = Out-of-band operation on a non-interference

 basis. (George Jacobs & Associates Inc., MD)

 KTWR Announced EG Sked Effective 10/1: Ø930-11 11805 Australia, New

kTWR Announced EG Sked Effective 10/1: 09/0111 11805 Australia, New Zealand, PNG & South Pacific; 15-1705 11650 India; 08-0930 15210 Far East; 16-17 11910 Africa (Note: This is a new broadcast). Pacific DX Magazine: Sat 1000 11805 Australia, New Zealand; 1515 11650 India; 0845 15210 Far East. (bmm) 15225, Ø451, Voice of Hope using KSDA facilities, EG, M w/relig talk & ID at Ø453 "This is High Adventures Voice of Hope" & another ID at . Ø501 mentioning KSDA. Weak signal but picked up after Ø6 w/Christian music and "High Adventures Voice of Hope for All of Asia" 10/17 (bmm)

- <u>GUATEMALA</u> Over four million of the eight million people living in this country speak one of the twenty-two related Mayan languages. These language groups range in size from 25,000 to over half a million. Since 1973 they have been able to hear Gospel broadcasts in their own languages, from CAM International's station, Radio Maya, and more recently over a second station of the same missionary organization, Radio Buenas Nuevas. (Marlin Field, MI)
- INDIA Note: This Information is not Copyright; But only those radio clubs which provide reciprocal access to their bulletins by Southern Asian Radio Club may reprint it! The External and Internal All India Radio Schedules are now available from Bob Palmer and Manosij Guha. The schedules are courtesy of All India Radio w/Monitoring updates by Kanwarjit Sanhu, Jose Jacob, Manosij Guha, and Vineet Dixit, all of whom live in India. Compilation, word processing, design, and graphics are done by Robert R. Palmer. All times are in UTC. Cost for each is \$2.00 (USA & Canada only) in mint United States postage stamps for each copy ordered to Mr. Robert R. Palmer, E. 2707 - 15th Ave, Spokane, WA 99223-5101 USA. Tel: +1 509-536-7641 (14-04 UTC). Listeners in the rest of the world may order from Manosij Guha for US \$3.00 cash or 3 IRCs. His address (Note: It is a new one as he as moved) Manosij Guha, 101 S.R.K. Hostel, Jamia Nagar, New Delhi - 110 moved) Manosij Guha, 101 S.R.K. Hostel, Jamia Nagar, New Delhi - 110 025 India. Telex: + 81 31 75210 mcre in (24 hours); Tel: + 91 11 632263 and: +91 11 637571 (04-12 Mon-Fri). Note: The Internal Sked is too large to print here (6 Pages) but here is some interesting items from it: 4760 is used by both Port Blair and Leh on a non-interference basis pending new allocations. Additional channels allocated for Port Blair are 6085 and 9600. 3255 Shillong is likely to be replaced by 4790. Srinagar, Jammu, and Leh (all J & K State) ID as "Radio Kashmir". Future Plans: New 10kW HF stations at Itanagar (Arunachal Pradesh) and Gangtok (Sikkim). Upgradation to 50 kW is in progress at Guwahati A, Hyderabad, and Kohima. A new 50kW HF station will be set up at Tiruvanendapuram (Kerala). Under Preparation: A List of all AIR stations' detailed addresses with telephone and telex numbers and telegraphic addresses will be made available shortly.

AIR External Sked: All Programs are produced at AIR's studios in Delhi with the following exceptions: Some of the Tamil programs (1130-1230 on shortwave and 2345-0030, 07-0930, and 1115-17 on MW) are produced by Madras. The Gujarati news (0415-0430 and 1705-1715) is produced in Bombay. <u>Radio Networking</u>: Transmitters are fed at various sites through PTT speech-grade landlines, and via INSAT-IB Radio Networking (RN) channels (subject to availability, as priority is given to HS feeds) A total of 6 transponders, designated RN-1 to 6, are available for use by AIR. All ESD transmitters are connected to Delhi via landlines.

3295D 1430-1930 Urdu to Pak; 3905D 0130-0215 Nepali, 1615-1730 Farsi t/W.Asia; 4920M 12-1230 Tamil t/Sri Lanka; 4990M 0000-0045 Tamil t/SE Asia; 6045D 0215-03 Pashto, 03-0345 Dari t/Afghan; 6110A 0130-0230 Nepali t/Nepal; 6140D 14-15 Nepali t/Nepal; 6155D 0130-0430 Urdu t/Pak; 6170D 12-13 Sindhi, 13-1330 Baluchi t/Pak; 7110D 07-08 Nepali t/Nepal; 7120D 2145-2230 Cantonese, 2230-2245 Kuoyu; 7140D 12-13 Sindhi, 13-1330 Baluchi t/Pak; 7145D, 0215-03 Pashto, 03-0345 Dari t/Aflghan; 7160M 08-0830 Tamil t/Sri Lanka; 7210D 0130-0228 Nepali 7215D 2245-0000 EG t/E & SE Asia; 7225A 0215-03 Pashto, 03t/Nepal; 0345 Dari t/Afghan; 7230K 07-0730 Nepali t/Nepal; 7255D 1230-1315 Tibetan t/Tibet; 7265A 23-24 Hindi, 0000-0045 Tamil, 0045-0115 Burmese t/SE Asia/Burma; 1615-1730 Farsi, 1730-1945 AA t/W. Asia; 20-2230 EG t/Australia; 7340M 2345-0330 & 07-0930 Tamil t/Sri Lanka; 7412D 1745-1830 Hindi t/W. Asia; 1845-1945 EG, 1945-2045 Hindi, 2045-2230 EG t/W.Eur; 9525D 1330-15 EG (Test Transmission), 1515-1615 Swahili, 1615-17 Hindi, 17-1745 Gujarati (Test Transmission); 9535A 2245-0115 EE t/E & SE Asia; 9550A 0215-0229 Tibetan t/Tibet, 2045-2230 EG t/Australia 1845-1945 EG, 1945-2015 Hindi, 2045-2230 EG t/W. Eur; 9565A 1330-15 EE t/SE Asia; 9575A 1230-1315 Tibetan; 9610B 07-08 Nepali t/Nepal; 9620A 1615-1715 RR; 9630D 0130-0228 Nepali t/Nepal; 9675D 0830-1130 Urdu t/Pak; 9705D 13-15 Sinhala t/Sri Lanka; 9910D

2245-0115 EG, 20-2045 Hindi, 2045-2230 EG t/W. Eur; 9910A 03-0345 Dari t/Afghan, 1615-1730 Farsi, 1730-1945 AR t/W. Asia; 9910M 07-0930 Tamil t/Sri Lanka; 9950D 1845-1930 FR, 1945-2045 EG, 2145-2230 Cantonese, 2230-2245 Kuoyu t/China; 11620A 13-15 Sinhala t/Sri Lanka, 1745-1830 Hindi t/W. Asia, 1845-1945 EG, 1945-2045 Hindi, 2045-2230 EG t/W. Eur; 11715D 2245-0115 EG t/NE Asia, 2045-2230 EG t/Australia; 11735D 07-08 Nepali t/Nepal; 11745D 2245-0115 EG t/E & SE Asia; 11760D 1330-15 t/SE Asia; 11810A 1215-13 Cantonese, 13-1315 Kuoyu t/China; 11830D 1515-1615 Swahili, 1615-17 Hindi, 17-1745 Gujarati t/EAf; 11850D 1330-15 (Test Transmission) EG t/SE Asia; 11855A 0315-0415 Hindi, 0415-0430 Gujarati, Ø430-0530 Swahili t/EAf; 11860A 1845-1930 FF, 1945-2045 EG 0215-0229 Tibetan 11860D 10-11 EG t/Australia; 11870D t/Tibet; 11880D 23-24 Hindi, 0000-0045 Tibetan, 0045-01 Burma t/SE Asia/Burma; 11935A 1615-1715 RR t/USSR; 11935D 18-20 EG t/EAf; 15020A 13-15 Sinhala t/Sri Lanka; 15050A 10-11 EG t/NE Asia; 15110D 2245-0115 t/W&NW Af; EE t/E & SE Asia; 15110D 1215-13 Cantonese, 13-1315 Kuoyu (Test Transmission); 15110B 2145-2230 Cantonese, 2230-2245 Kuyou t/China, 0315-0415 Hindi, 0415-0530 Swahili t/EAfr; 15165D 23-24 Hindi, 0045-Ø115 Burmese t/Burma, 1115-1215 Burmese t/Burma, 1615-1715 RR t/USSR; 15175A Ø845-Ø945 Indo t/Indonesia; 15275A 1130-1230 Tamil t/SE Asia; 15280B 1515-16 Swahili, 1615-17 Hindi, 17-1745 Gujarati t/EAf; 15335A 10-11 EG t/Australia; 15335M 1130-1230 Tamil t/S & SE Asia; 15335D 1330-1445 EG t/SE Asia' 15360B 18-20 EG t/EAf; 15360D 1545-1615 Swahili, 1615-17 Hindi, 17-1745 Gujarati (Test Transmission); 15365A 04-0430 Farsi, 0430-0530 AR 0530-06 Urdu t/W. Asia, 1115-12 Thai t/Thailand; 15365D 1215-13 Cantonese, 13-1315 Kuoyu t/China; 17387D 1130-1230 Tamil t/S&SE Asia; 17725D 0000-0115 EG t/E & SE 10-11 EG, Asia; 17740A 0845-0945 Indo t/Indonesia; 17785A 04-0430 Farsi, 0430-0530 AA t/W.Asia; 17785D 1115-1215 Burmese t/Burma, 1215-13 Cantonese, 13-1315 Kuoyu t/China; 17805A 0315-0415 Hindi, 0415-0430 Gujarati, 0430-0530 Swahili t/EAf; 17830D 115-12 Thai t/Thailand; 17890A 10-11 EE t/NE Asia; 21555D 1215-13 Cantonese, 13-1315 Kuoyu t/China (Test Transmission) & irregular: 21mhz antenna not up yet; 21735D 10-11 EE t/NE Asia).

Sites:	A =	- A	ligarh 4	X	25	50kW HI	28	3:00 d	eg N	78	3:06 de	eg E	
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	Ľ) =	Delhi	2	х	250kW	HF	28:43	deg	N	77:12	deg	E
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						10kW							

1 X 10kW HF Interesting Tidbits of Information:

During the transmitter pause at each of the sites the transmitters are tested on any of the following frequencies before regular transmission commences.

Bombay: (0545-0815) on 6035, 9550, 11830,, 15270, 17855, 21695 Madras: (04-0545) on 6120, 7205, 9705 Delhi: (0445-0645) on 6115, 7110, 9730, 11810, 15250, 17835, 21895

Delhi: (0445-0645) on 6115, 7110, 9730, 11810, 15250, 17835, 21895 (Data above for the KINGSWAY xmtr site at Delhi) Delhi: (04-0645) on 6050, 7195, 9705, 11850, 15250, 17835, 21695

(Data above for the KHAMPUR xmtr site at Delhi) Aligarh: (0530-0815) on 5980, 9630, 11790, 15450, 17750, 21660.

The 2 X 500kW HF xmtrs installed near Bangalore may begin testing soon with reduced power during the Indian working hours (0430-1230 UTC) on the following frequencies allocated: 6180, 7265, 9705, 11895, 15295, 17850. (Manosij Guha, India & Bob Palmer, WA)

AIR Home News Service(1): 0030-0040 Hindi/EG 9610, 4860, 3925; 0130-0135 Hindi 15305, 15200, 11870, 11830, 9665, 9610, 9550, 4860; 0230-0250 Hindi/EG 15305, 15200, 11870, 11830, 9665, 9630, 9610, 9550, 9535, 7260, 7210, 4860, 3905; 0330-0345 Hindi/EG including Newsletter from the States, 15305, 15200, 11870, 9665, 9630, 9610, 7210, 4860; 0355-04 Sunday Hindi 15305, 15200, 11870, 9665, 9630, 9610, 7210, 4860; 0730-0740 EG/Hindi 17850, 15250, 15125, 11935, 9675; 0830-0850 EG/Hindi 17850, 17705, 15250, 15230, 11935, 11850, 11735, 9610, 9565, 7110; 0850-0930 EG/Hindi (Dictation speed) 17850, 17705, 15250, 15230, 11935, 11850, 11735, 9610, 9535, 7110; 0930-0940 EG/Hindi 17850, 17705, 15250, 15230, 11935, 11850, 11735, 9610, 9635, 7110; 1130-1140 Hindi/EG News from the States 15320, 15250, 11850, 11850, 11620, 9675, 9610,

Real HIGH IN ALL I

English Language SW Broadcast

Schedule

and

English Language DX Show Schedule

Compiled by Thomas R. Sundstrom

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A NASWA EXCLUSIVE

9:12:02 10/28/1989

Thomas R. Sundstrom		Telex:	6502446376MCI	UW
PO Box 2275	1	MCI Mail:	244-6376	
Vincentown	1	Prodigy:	DRVB19A	
NJ 08088-2275	1	CompuServe:	(send via MCI	Mail)
Voice: 609-859-2447	Pa	cket Radio:	W2XQ @ WB2MNF	
Fax: 609-859-3226	Pine	lands RBBS:	609-859-1910	

Schedules were received from John Carson (Norman, OK), and Kris Field (Ambler, PA). Thank you both very much. Also a note was received from Charles Broyles (Pittsboro, NC) on a follow-up to last month. Charles, I am sure more than a few readers will be interested in your comments on the Lowe 225 once you get it.

The third annual Winter SWL Festival will be held February 23-24-25, 1990, in Kulpsville, PA. northwest of Philadelphia. at the Kulpsville/Lansdale Holiday Inn, exit 31 of the northeast extension of the PA turnpike. For more information and a registration form, send a #10 SASE to Winter SWL Festival. PO Box 591. Colmar. PA 18915-0591. In addition to the club bulletins, details will be announced on the ANARC SWL Net (Sunday, 10 a.m. Eastern. 7240 kHz) and will be posted on the BBSs.

Lots of new times and frequencies what with S89 and D89 changes in here. I know there will be more next month as some broadcasters don't adequately publicize changes, and the D89 schedule begins November 5. 17855 is a cluttered frequency at 12 UT. R Beijing to ENA and the VOA in Russian both use the frequency, and reception is difficult. R Beijing at 04 is dropping 11840, moving it to 05 UT. Brent Allred's assignments at HCJB have been expanded and, as a result, effective October 1 DX Party Line is now aired only once a week. Given the multitude of competing and sometimes time-conflicting SWL/DX programs aired by other stations on the weekends. Brent has opted to drop the Sat-Sun release and retain the Mon-Tue edition. Glenn Hauser reports that ORF's Sunday SW Panorama is now aired only twice at 1130 and 1430. dropping 1030 UT. KTWR's signal at 10 UT on 11805 is fairly good here (Pacific DX Magazine airs Saturday) but DW's Antiqua relay on 11810 can cause interference. Greece noted on new 12105. Kuwait at 18-21 UT appeared briefly on 21675. but within a week settled on 13610. Sennitt passed along information that there were major programming changes, primarily involving Arabic. On the 26th, Kuwait was still announcing the original English schedules on 15345 and 11665. Albania on new 6120 (ex-6085) at 2330; new 9760 at 0230 and 0330. A solar flare, major geomagnetic storm and polar cap absorption event well wiped up the bands on the 19th and 20th but it afforded the opportunity to hear Argentina and its retimed releases to the Americas for several evenings in a row. Steve Forrest (Cincinnati, OH) tells me of Moscow at 11 on new 15155 and 15110; 15585 is gone. This carries through at least 14.

FC Software for PC/XT/AT/PS2 and compatibles: English Language SWBC Schedules, with a new feature of loading frequencies into the memories of the JRC NRD-525 and the Kenwood R-5000 from the computer. ASCII text file subscriptions for those without a PC compatible. Receiver computer control programs for the NRD-525 and R-5000. Utility Logbook for logging utility stations. For more information send a business-sized SASE to TRS Consultants (address above) or download information from the Pinelands RBBS.

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	0000	0100			R Australia					17715	15320	15240	15160	15140	As/Pac/PapN6		06/02/89
	0000	0100	Bulgaria		R Sofia			11660							NA		09/24/89
	0000	0200	Canada		R Canada Int 1			5960						104	USA	Su-No	10/21/89
	0000	0106	Chine		R Beijing			17715	15130	1710					ENA	#2#3 v Mali	04/29/89
	0006	0200	Cuba		R Havana		11820										03/26/89
	0000	0027	Finland		R Finland		11755								NA/SA		10/26/89
		0115	India	5	AIR					11715	9910	9535			60S/As		05/24/89
	0000	0030	Israel		Kol Israel			12077	11605						NA		08/27/89
	0000	0200	Luxembouro		R Luxenbourg		6090								regional		09/24/89
	0000	0200	N Mariana 1s		KHBI		15445							1	Phil/Indon/PapNe		10/21/89
	0000	0056	North Korea		R Pyongyang			15115							Aa		11/13/87
	0000	0030	Norway	# 1 E	R Norway		9595								SA	Eng Non only	10/21/89
	0000	0100	Spain		Spanish Nat'l R		15110								NA		03/06/89
	0000	0100	USA		VD4			11740	11695	11740	11580	9815	9775	5995	Caribbean/Americ		05/24/85
	0000	0200	U54		NCSN		98 50									90 deq	08/13/88
	0000	0200	USA		WHRI			7315						F2 19	Eu/CA/SA		10/21/89
	0000	0400	USA		WRNG		7355								NA/CA	20 deg	10/26/89
	0000	0200	USA		WSHE		13760								CA/SA/NE Canada	167/25 deg	06/22/89
		0100	USA		WYFR		13695								NA	Network	03/25/89
		0100	USSR		R Noscow		11750	9865	9765	9720	9600	7150			ENA	and 6 other fre	eg's 09/24/89
		0055	Belgium		BRI		9925								NA/SA		09/16/89
		0430	Costa Rica		R for Peace Int'l		21565	13660								Tu-Sa	05/13/89
		0130	Ecuador		HCJB		15250								Americas		02/18/85
			England		BBC		12095	9915	9590	7325	6175	5975	17.4	18/13	WS: NA/CA/Carib	#3 Bethany	04/06/89
		0100	Hungary		R Budapest		15160	11910	9835	9585	9520	6110		And the L	NA	exc No	09/24/89
2050		0125	Netherlands	N.R. L.	R Nederland		15315	6165	6020						ENA	#1%2 v Bonaire	03/17/89
		0100	USSR		R Kiev		17690			9765	7400			a <u>n</u> 2	NA	ANTE AND SALVES	10/26/89
	0035	0300	Ecuador		нсјв		15155	11775	9745						NA		07/17/89

0045	0130	Serman Den Rep	R Berlin Int'l	11890	6080							ENA		09/21/89	
0045	0100	South Korea	R Korea	15575								60S	Norld News Service	11/05/88	
0050	0110	Vatican State	Vatican Radio	15180	11780	9605						NA		06/05/89	
0100	0200	Argentina	RAE	11710								Americas		10/20/89	
0100	0200	Australia	R Australia	21740	21525	17795	17750	17715	15395	15320	15240	As/Pac/PapNG		10/17/89	
0100	0200	Canada	R Canada Int'l	11940	11845	9535						LA	Su-No	10/21/89	
0100	0157	Czechoslovakia	R Praque	15540	13715	11990	11685	9540	7345	5930		MA		05/30/89	
0100	0150	Fed Rep Germany	R Deutsche Welle	11865	9735	9565	6145	6085	6040			ENA		10/27/89	
0100	0130	Israel	Kol Israel	15615	12077	11605						NA		08/27/89	
0100	0120	Italy	RAI	11800	9575							NA		03/19/88	
0100	0200	Japan	R Japan	17845	17835	17810	17755					GOS/Asia/NA	#4 -0130	10/26/89	
0100	0200	Spain	Spanish Nat'l R	15110	9630							NA		03/06/89	
0100	0130	Sweden	R Sweden	9640	7225							As/Pac		09/20/89	
0100	0300	USA	KUSN	11695								Canada	70 dea	08/28/89	
0100	0400	USA	KVOH	13695								CA/Carib	100 deg	10/30/88	
0100	0200	USA	VOA	15205	11740	11580	9815	9775	9455	6130	5995	Caribbean/Americas		09/24/89	
0100	0500	USA	WYFR	9505	5950							NA	Network	03/25/89	
0100	0300	USSA	R Noscow	21470	17840	17700	11750	9865	9720	7290	7165	ENA	and 6 other freq's	09/24/89	
0100	0145	Yuopslavia	R Yuqoslavia	11735	6005	5980						W Eu/NA		09/25/89	
0130	0200	Austria	ORF	13730	9875	9870						NA/SA		10/13/89	
0130	0138	Greece	V of Greece	11645	9420	9395						NA/Sweden	News/Eng ex Su	08/15/89	
0130	0200	Hungary	R Budapest	15160	11910	9835	9585	9520	6110			NA		09/24/89	
0130	0200	Philippines	R Veritas Asia	15360	15220							As		09/12/89	
0145	0330	New Zealand	R New Zealand Int'l	17705	15485							Pac/Aus/Melanesia	Sat & Su only	09/09/89	
0200	0300	Australia	R Australia	21740	21525	17795	17750	15395	15240	15160		As/Pac/PapN6		10/17/89	
0200	0250	Brazil	R Bras	11745								NA/CA		02/28/88	
0200	0300	Canada	R Canada Int'i	11940		9755	9535					LA	Tu-Sa	10/21/89	
0200	0400	Cuba	R Havana	11820	9710							Americas		05/20/89	
0200	0330	Epypt	R Casro	9675								NA		07/20/86	
0200	0250	Fed Rep Germany	R Deutsche Welle	15235	11945	11835	9690	9615	7285			As		03/07/89	
0200	0245	Serman Des Rep	R Berlin Int'l	11890	6080							ENA		09/21/89	
0200	0900	Guas	KSDA	15225	13720							As	Eng 02-03	10/21/89	
0200	0230	Israel	Kol Israel	15615	12077	11605						NA		08/27/89	
0200	0600	N Mariana 1s	KHBI	17865	17780							SE As/Indon/Phil/Jap	270/340 deg	10/14/89	
0200	0255	Romania	R Bucharest	15380	11940	11830	9570	9510	5990			NA		06/03/89	
0200	0256	South Africa	Radio RSA	11935	9615	9580						NA		08/27/89	
0200	0230	Switzerland	Swiss & Int'l	17730	12035	7885	9725	6135	6095			NA	17730 v Brazil	11/12/88	
0200	0300	Taiwan	V of Free China	15345	11860	11740	9765	9680	7445	5950		NA/Jap/As/CA/AusNZ	43,5,7 v WYFR	08/05/89	
		USA		15205										09/24/89	

0200	0400	USA	WCSN	9850							E Afr	75 dec	08/13/88
0200	0400	USA	WHEI	9495 73	5						Eu/CA/SA		10/08/89
0200	0400	USA	WSHE	13760 94	5						CA/Canada	188/315 deo	03/08/89
0200	0215	Vatican State	Vatican Radio	11750 965	0 712	5					As/Aus/NZ		06/05/89
0230	0300	Albania	RTirana	9760							NA		10/27/89
0230	0330	England	BBC	12095 991	5 966	7325	6175	5975			WS: NA/CA/Carib	#3 Bethany	04/06/89
0230	0315	German Ben Rep	R Berlin Int'l	15240 1361	0 9734	0					LA		05/25/89
0230	0245	Hungary	R Budapest	15160 1191		9585	9520	6110			NA	Tu/W/F/Sa	09/24/89
0230	0430	Iraq	R Baghdad	11810 951	5						NA/SA/Ind/Pakis		10/08/89
0230	0300	Portugal	£ Portugal	11840 970	5 9680	9600					SA/NA	Tue-Sat	11/17/88
0230	0300	Sweden	R Sweden	11705 965	5						NA		09/20/89
0245	0330	German Den Rep	R Berlin Int'l	15125 1189	0 1178	6080					ENG/WNA		09/21/89
0255	0430	Netherland Antilles	Trans World Radic	11930 953	5						NA/Carib	Su/No -0530 : #1 03+	05/31/89
0300	0400	Argentina	RAE	11710							Americas		10/20/89
0300	0400	Australia	R Australia	21740 2152	5 17795	5 17750	15395	15320	15240	15160	As/Pac/PapN6		10/17/89
0300	0330	Austria	R Canada Int'l	11925							NE	Sa/Su-04	10/21/89
0300	0400	China	R Beijinc	17855 1513	0 1171	9690					WNA	#4 Spain1#2&3 Hali	04/29/89
0300	0357	Czechoslovakia	R Pranue	15540 1371	5 11990	11685	9540	7345	5930		NA		05/30/89
0300	0500	Ecuador	HCJE	15155 1177	5						NA		07/17/89
0300	0350	Fed Rep Germany	R Deutsche Welle	9700 967	0 6120	5960					NA		10/28/89
0300	0425	Guatemala	TENC	2300									12/23/87
0300	0336	Japan	R Japan	21610 1783	5 17825	5 17810	17765	15325	15195	11905	605/Asia/NA	#9 Gab:#6 Fr Guinea	10/26/89
0300	0520	South Africa	Radio 5	4880									09/08/89
0300	0505	South Africa	Radio Oranje	3215									09/08/89
0300	0400	Taiwan	V of Free China	15345 1174	5 9765	9680	7445	5950			NA/Jap/As/AusNI	#4.6 v WYFR	08/05/89
0300	0500	USA	KUSW	9815							Canada	70 deg	08/28/89
0300	0430	USA	VDA	11835 957			6035				Africa	41 Sa-Su 0400-	09/24/89
0300	0330	USSE	R klev	17690 154	5 1518	9765	7400				NA		10/26/89
0300	0400	USSE	R Moscow	21470 1784				7290	7165		ENA	and 6 other freq's	09/24/89
0310	0327	Switzerland	Int'I Red Cross	12035 988	5 972	5 6135					NA/CA	Tulfr after last Su	
0310	0330	Vatican State	Vatican Radio	11725							NA		06/05/89
		France	R France Int'l		5 1199	5 11700	11670	9790	9745	9550	Am/Afr/Ind/As/Eu	news/features in Eng	
	0400	Albania	R Tirana	9760							NA		10/27/89
	0430	England	BBC	9915 617	5 5975	5					WS: NA/CA/Carib		09/23/89
	0400	Japan	P Japan	17835 1781		5960					6DS/Asia	#4 v Canada	10/26/89
	0425	Netherlands	R Nederland	11720 959	0						WNA	v Bonaire	09/02/89
	0730	New Zealand	R New Zealand Int'l	17705 1548	-						Pac/Aus/Melanesia		09/05/89
0330	0400	United Arab Emirates		17890 1555							NA		06/11/89
0340	034E	Greece	V of Greece	9420 939	5 7430)					NA/Sweden	News/Eng ex Su	08/15/89

0345	0430	Gersan Des Rep	R Berlin Int'l	15125	11785							WNA		05/14/89
0356	0410	Italy	RAI		15530	11905						S As		10/17/89
0350	0400	ØSSE	R Yerevan		15455		9765	7400				WNA	News/Eng	10/26/89
0400	0500	Australia	R Australia						15320	15240	15160	As/Pac/PapNG		10/17/89
0400	0430	Austria	R Canada Int'i	11925								NE	R-F	10/21/89
0400	0500	Bulgaria	R Sofia	15140	11765	11735	11720					Afr/NA		09/24/89
0400	0500	China	R Beijing		11685							WNA/ENA	#2 Fr Guin	10/28/89
0400	0400	Cuba	R Havana	11820	11760	9710	5965					Americas	#3 -0450	10/28/89
0400	0450	Fed Rep Germany	R Deutsche Welle	11765	9765	9565	7225	7150				SACAE Afr		09/30/88
0400	0445	Serman Des Rep	R Berlin Int'l	15125	11785							WNA		09/21/89
0400	0450	North Korea	R Prongrang		15180	15160						SE As		11/25/88
0400	0455	Romansa	R Bucharest	15380	11940	11B30	9570	9510	5990			NA		06/03/89
0400	0430	Switzerland	Swiss R Int'l	12035	9885	9725	6135					NA		05/24/86
0400	0450	Turkey	V of Turkey	17760	9445							SE AS/NA		09/24/89
0400	0500	USA	V04	7200	7170	9740	6140	5995				NE/N Af/Eu		09/24/89
0400	0600	USA	NCSK	9870								S Afr	105 deg	03/08/89
0400	0600	USA	MHR1	9495	7315							Eu/CA/SA		10/08/89
0400	0700	USA	MMLK	9465									No-Sa	08/30/89
0400	0600	US4	MRNO	6185								NA/CA	20 deg	10/21/89
0400	0600	USA	NSHE	13760	9455							CA/Canada	245/315 deg	03/08/89
0400	0430	USSE	R Hoscow	17840	17665	17605	15425	15180	12050			WHA		09/24/89
0400	0410	Zambia	R Zantia	4910									news/English M-F	01/14/89
0425	0440	Italy	RAI	7275	5990							Mediterranean		10/17/89
0430	0500	Albania	R Tarana	11835	9480							Afr		12/24/86
0430	0500	England	BBC	9915	5975							WS: NA/CA/Carib	#2 v Antigua	09/23/89
0430	0455	Netherlands	R Nederland	13700	9895							NE/E Afr		03/02/89
0430	0500	Swaziland	Trans World Radio	9760	9610	9 550	7285	7255	7200	5055	4760	S Af	only 1 frea/bnd us	ed 06/05/89
0430	0600	USA	VOA	9575	9540	9525	7280	6035				Africa	\$2 0500-1\$3 -0500	09/24/89
0430	0500	USSE	R Moscow	17840	17665	17605	15455	15425	15180	12050	12010			09/24/89
0432	0530	Sevchelles	FEBA		15325							SE As	M & Sa	03/11/89
0500	0600	Australia	R Australia	21740	21525	17795	17750	15395	15320	15240	15160	As/Pac/PapN6		10/17/89
0500	0600	China	R Beijing	11840								WNA		10/28/89
0500	0630	Ecuador	HCJB	11775	9745	6230						NA		04/15/89
0500	0530	England	BBC	9915	9640	5975						WS: NA/CA/Carib	#2%3 v Antiqua	09/23/89
0500	1200	Equatorial Guinea	R East Africa	9585								Af	Sa & Su Sa -1500	10/06/89
0500	0550	Fed Rep Germany	R Deutsche Welle					6130				E AF/WNA		03/07/89
0500	0515	Israel	Kol Israel	17685	17630	17575	15485	11605	11588			Aus/As/NA/N Eu		08/27/89
0500	0600	Japan	R Japan		17890	17610	17765	11870				605/As/NA/Oceania		10/26/89
0500	0800	Kuwait	R Kuwait	15345								Far E/SkE As/Aus/N	12	04/18/87

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0500	0600	Spain	Spanish Nat'l R	9630								NA		07/09/89
0500	0700		Trans World Radio	11835	11760	11740	7285	7255	7200	5055	4760	S Af	only 1 freq/bnd used	06/05/89
0500	0700	USA	KUSH	6175								Canada	70 dea	08/13/88
0500	0530	USA	AGA	15205	11925	9740	9700	9670	7200	7170	6140	ME/N Af/Eu		09/24/89
0500	0600	USA	WYER	17640	15566	11580	5985					Af/Eu/NA	#4 Network	08/06/89
0500		USSR	R Moscow			15180		12010	12000			NNA		09/24/89
0500		Vatican State	Watican Radio	17730	15190							E Afr		09/16/89
	1640	South Africa	Radio Oranje	7285										09/08/89
0525	1630	South Africa	Radio 5	11685										09/08/89
0530	0600	Austria	ORF	6015		·						WNA	v Canada	04/09/89
0530	0730	England	BBC	9640	5975							WS: NA/CA/Carib	v Antigua	09/23/89
0530		Rosania	R Bucharest	21665	17745	17720	15380	15340				Afr		06/04/89
0530		Sevchelles	FEBA	17820								India	Fr	09/30/88
0530	0600	United Arab Emirates	R Dubai	21700	17775	15435	11730					Far E/Aus/As		06/04/89
0536	0600	USA	V04	15205	15195	11925	9740	9700	9700	9670	7200	NE/N Af/Eu	& 3 more 49m outlets	09/24/89
0530	0630	USSR	R Hoscow	15455	15425	151BC	13645	13605	12030	12010	12000	WNA		09/24/89
0555		Liberia	ELNA	4760									M-SalF-0817,Sa-0832	05/14/89
0555		Nalaysia	V of Malavsia	15295	9750	6175						Aus/NZ/Indonesia		04/30/89
0600	0630	Australia	R Australia	21740	21525	17750	15395	15320	15240	15160	11920	As/Pac/PapNG		10/17/89
0600	0800	Cuba	R Havana	11835								Americas		04/08/89
0600	0650	Fed Rep Germany	R Deutsche Welle	17875	15185	13790	11765					W Afr		09/30/88
0600	0645	German Dem Rep	R Berlin Int'l	13610	11810	9645	6115	5965				Af/HE/Eu		09/21/89
0600	0700	Malta	R Hediterranean	9765										09/24/88
0600	0860	N Mariana Is	KHBI	17855	17780							SE As/Phil/Japan	270/340 deg	10/14/89
0600	0650	North Korea	R Prongvano	15180	15160	15115	13650					SE As		11/25/88
0600	0630	Norway	R Norway	15165	5980							Pac/Eu	Eng Sun only	10/21/89
0600	0700	South korea	R Korea	11830	9570	7275						An/605		05/13/89
0600	0700	USA	VOA	15195	11925	11805	7325	7200	7170	6140	6095	ME/N Af/Eu	& 1 49m, 1 75m	09/24/89
0600	0800	USA	WCSN	9840	7365							Eu	60 deo!#2 alt use	10/26/89
0600	0800	USA	WHEI	9495	6100							Eu/CA/SA		08/28/89
0600	1200	USA	WRND	6185								NA/CA	20 deg (Su only)	02/15/88
0600	0800	USA	WSHE	11986	9455							CA/Canada	245/315 deg	04/24/89
0600	0700	USA	WYFR	17640	15566	13760	7355	5985				Eu/NA/NA	#5 Network	08/06/89
0600	0620	Vatican State	Vatican Radio	9645	6185							Eu		09/16/89
0601	0700	USA	AOV			9540				6080	6035	Africa		09/24/89
0615	0630	Canada	R Canada Int'l			9740	7155	6150	6050			W Eu/Afr	H-F141.3,4,6 v UK	09/23/89
0615	0700	Serman Des Rep	R Berlin Int'l	17880	15240							As		09/21/89
0615	0630	Vatican State	Vatican Radio		15190							C&S Af	N-F	06/05/89
0625	0840	Honaco	Trans World Radio	9485	,							UK	Su -1000	06/05/89

0630	0700	Albania	R Tirana	9500 7065	Eu		12/24/B6
0630		Australia	R Australia	21525 17750 15395 15320 15240 15160 11945	As/Pac/PapNG/Afr		10/17/89
0630		Italy	AWR Europe	7125	Eu		10/14/89
0630		Jordan	R Jordan	13655			03/13/89
0630		Liberia	ELWA	11830	C&W Afr	Sa-Su	05/14/89
		Poland	R Polania	9675 7270	Eu		08/15/89
0630		Switzerland	Swiss R let'l	21520 17570 15430 12030	Afr	#1 SSB	10/14/89
0630		USSR	R Noscow	13645 13605 12040 12030 9580	WNA	add'l freq in use	09/24/89
0645		Canada	R Canada Int'l	11840 9760 9740 7155 6150 6050	¥ Eu/Afr	H-F1#1,3,4.6 v UK	09/23/89
0645		Ecuador	HCJB	11835 9610	Eu	Sat-Sun 0700-0830	02/18/89
0645		Romania	R Bucharest	21665 17805 17720 15335 11940 11810	Pac		06/04/89
0655		Liberia	ELWA	4760		Su	05/14/89
0700		Australia	R Australia	21525 17750 15395 15320 15240 15160 9655	As/Pac/PapNG		10/17/89
0700		Japan	R Japan	21690 21500 17890 17810 17765	605/As/An/Dc/Eu/ME	41 v Gabon	10/26/89
0700		Swaziland	Trans World Radio	11835 11760 11740 7285 7255 7200	S Af	only 1 freq/bnd used	06/05/89
0700	0800	Taiwan	V of Free China	5950	NA	via WYFR	08/05/89
0700		USA	KUSW	6135	Canada	70 dec	02/15/BE
0700		USA	WYFR	15566 13760 7355	Af/Eu		03/25/8
0710	0800	Ecuador	HCJB	11925 9745 6130	S Pac		07/17/8
0715	0730	Vatican State	Vatican Radio	17730 15190	CLSLK Af	N-F	06/05/8
0727	0835	Sevchelles	FEBA	17780 15275	SE As	Su	03/11/8
0730	0800	Australia	R Australia	21525 17750 15395 15320 15160 9655	As/Pac/PapN6		10/17/8
0730	0800	Bulgaria	R Sofia	17825 15160 11765	¥ Eu		09/24/8
0730	0800	Czechoslovakia	R Praque	21705 17840 11685	S&E As/Pac		04/14/B
0730	0815	England	BBC	9640	WS: NA/CA/Carib	v Antiqua	04/06/8
0730	0755	Finland	R Finland	11755 9560 6120	Eu/NE/Afr		09/20/8
0730	0825	Netherlands	R Nederland	15560 9630	NZ/Aus	via Bonaire	09/02/8
0730	0800	Switzerland	Swiss R Int'l	9535 6165 3985	Eu		10/14/8
0740	0757	Switzerland	Int'l Red Cross	21695 17670 13685 9560	Australasia	MoWTh after last Su	03/18/8
0800	0830	Albania	R Tirana	11835 9500	As/Aus		12/24/B
0800	0815	Australia	R Australia	21525 17795 15395 9655 9580	As/Pac/PapN6		10/17/8
0800	0830	Bangladesh	R Bangladesh	17710 15195	Eu		03/04/8
0800	0825	Belgium	BRI	21815 11675 6035	SE As/Aus/Eu	M-F	09/16/8
0800	1130	Ecuador	нсјв	11925 6130	S Pac		07/17/8
0800	1000	N Mariana Is	KHBI	17855 9530	Aus/NZ/Japan	165/340 deg	10/14/8
0800	0850	North Korea	R Pyongyang	15180 15160 15115 11830	SE As		11/25/8
0800	0830	Norway	R Norway	15165	Pac/NA	Eng Sun only	10/21/8
0800	0900	South Korea	R Korea	13670 7550	Eu		10/03/8
0800	0900	USA	KNLS	7365	As		10/21/89

0800	1000	USA	MCSN	9840							E	u	60 deg	10/26/89
0800	1100	USA	WHR]	7355						12.	E	u/CA/SA		08/13/88
0800	1000	USA	WSHE	13760	11770	9455					C	anada/SA	260/152 deg i #2 alt	10/21/89
0805	0930	buan	KTNR	15210							F	ar East		05/08/89
0815	0830	Australia	F Australia	21525	17750	15395	11720	9655	5980		A	s/Pac/PapNG		10/17/89
0828	0855	Netherlands	R Mederland	9776							A	85	weekdays	09/16/88
	0900	Australia	R Australia	21525	17750	15395	11720	9655	5980	5995	A	s/Pac/PapN6		10/17/89
	0900	Austria	ORF	21490	15490	13730	6155				E	u/NE/Af		09/26/89
	0930	China	R Bei jang	17710	15440	11755					S	Pacific		04/29/89
0830	0900	Czechoslovakia	R Praque	21705	17840	11685					S	LE As/Pac	Sat & Sun to 0930	04/14/89
0830	0925	Netherlands	R Nederland	21485	17575						A	sia		09/19/86
0830	0900	Switzerland	Swiss R Int'l	21695	17670	13685	9560				A	us/NZ		10/14/89
0640	0848	Greece	V of Greece	17550	15625						A	US	News/Eng	08/15/89
0845	0930	German Dem Rep	R Berlin Int'l	21465	21540	9730	7185	6115	6040		F	ar E/Eu	#1.3.4.6 Sa-Su only	09/21/89
0900	1000	Afghanistan	R Afghanistan	21600	17720						11	E	v USSR	04/09/89
0900	0915	Australia	R Australia	21525	15415	11720	9760	9655	5980	5995	A	s/Pac/PapNG		10/17/89
0900	0950	Fed Rep Germany	R Deutsche Welle	21680	21650	21600	17785	17780	11945	11785 9	9650 A	us/As/SECLE Afr		03/07/89
0900	0955	Finland	R Finland	17800	15245						A	us/S&SE As	Su -1000	09/20/89
0900	1000	Suas	KSDA	11980	13720						A	5		08/28/89
0900	1000	Japan	R Japan	17890	17810	15270					6	OS/As/Oc		09/08/89
0900	1205	New lealand	R New Zealand Int'l	11780	9850						A	us/Melanesia		09/09/89
0900	0930	Norway	R Norway	17740							I	nd/S As/Aus	Eng Sun only	10/21/89
0900	1000	Portugal	AWR Europe	9670							E	U	Sunday only	16/14/89
0910	0940	Hongolia	R Ulan Bator	12015							A	85		09/04/89
0915	0945	Australia	R Australia	21525	15415	11720	9760	9655	9580	5995	A	s/Pac/PapNG		10/17/89
0930	1030	China	R Beijing	17710	15440	11755					S	Pacific		04/29/89
0930	1100	Suas	KTWE	11805							A	usNZ		08/31/87
0945	1000	Australia	R Australia	21525	15415	9760	9655	9580	5995		6	s/Pac/PapN6		10/17/89
1000	1030	Australia	R Australia	21525	15415	9770	9655	958 0	5995		A	s/Pac/PapN6		10/17/89
1000	1025	Belgius	BRT	26050	21810						A	fr	N-F	09/16/89
1000	1045	German Des Rep	R Berlin Int'l	21465	21540	11890					F	ar E/ENA	11 Sa-Su only	09/21/89
1000	1600	Guas	KHBN	9830							C	hina		10/21/89
1000	1100	6uae	KSDA	13720	11980						A	5	Eng 1000-1030	01/29/89
1000	1100	India	AIR	17740	17387	15335	15155	15050	11860		6	DS/NE As/AusNI		07/08/89
1000	1200	N Mariana 1s	KHBI	15115	9530						PI	hil/Indon/China	240/310 deg	10/14/89
1000	1030	Switzerland	Swiss R Int'l	21695	17670	13685	9560				A	us/N2	a martine a	04/17/89
1000	1200	USA	VDA -	11915	9590						C	aribbean/Americas		09/24/89
1000	1200	USA	NSHB	9455	6150						٤.	anada	152/25 deg	10/21/89
1000	1100	USA	WYFR	. 5985							Ni	A		08/06/89

1000	1030	Vietnam	V of Vietnam	15010 12030 - 9840	09/25/88
1030	1100	Australia	R Australia	21525 15415 9770 9580 5995 As/Pac/PabNG	10/17/89
1030	1100	Italy	AWR Europe	7257 Eu	10/14/89
1030	1125	Netherlands	R Nederland	11890 6020 Aus/Carib v Bonaire	10/26/89
1030	1110	United Arab Emirates	R Dubai	21605 17775 15435 15320 Eu/Afr	06/22/89
1040	1057	Switzerland	Int'l Red Cross	21550 17830 15570 13635 Far East MobTh after last Su	03/18/89
1045	1130	German Des Rep	R Berlin Int'l	6115 Eu	09/21/89
1045	1100	Hungary	R Budapest	15160 11910 9835 9585 7220 6110 Eu Su	09/24/89
	1257	Netherland Antilles	Trans World Radio	15345 11815 ENA/Carib Sat -1400/Sun -1332	05/31/89
1100	1130	Australia	R Australia	21525 11800 11705 9770 9710 9645 9580 7215 As/Pac/PapNG	10/17/89
1100	1200	China	R Beijing	17855 ENA	04/29/89
1100	1200	England	BBC	11775 9515 6195 5965 WS: WA/CA/Carib #1&3 Ant1#2&4 Sack	09/23/89
1100	1150	Fed Rep Germany	R Deutsche Welle	21600 17800 17765 15410 # Afr 17800.15410 v Kigali	09/30/88
1100	1300	Guan	KSDA	13720 11980 As/Indonesia	10/21/89
1100	1130	Israel	Kol Israel	21760 17685 15650 15485 W Eu/Aus/As	08/27/89
1100	1200	Japan	R Japan	11840 11815 6120 GOS/Asia/NA #3 v Canada	09/08/89
1100	1150	North Korea	R Pyongyang	11735 9977 9600 Aa	01/14/89
1100	1156	South Africa	Radio RSA	25790 11900 11805 Afr/ME/UK/Ireland #3 to Mambia	09/08/89
1100	1200	South Korea	R Korea	15575 NE/Afr	10/03/87
1100	1130	Switzerland	Int'l Red Cross	7210 Eu last Su of month	03/18/89
1100	1130	Switzerland	Swiss R Int'l	21770 17830 15570 13635 SE As/Aus/NZ	07/29/89
1100	1200	Taiwan	V of Asia	9845 7445 5980 SE As	05/13/B9
1100	1500	USA	KUSW	9850 Canada 70 deg	07/30/89
1100	1300	USA	NHRI	11790 7520 Eu/CA/SA	10/21/89
1100	1300	USA	WYFR	11580 5985 NA	08/06/89
1100	1200	USSR	R Moscow	21800 17890 17830 17660 15535 15220 15155 15110 World Service \$9 v Cuba	10/28/89
1100	1130	Vietnam	V of Vietnam	15010 12030 9840	09/25/88
1115	1130	Vatican State	Vatican Radio	21485 17840 CLSLE Af	06/05/89
1130	1200	Albania	R Tirana	11855 9480 As/Aus	12/24/86
1130	1200	Australia	R Australia	11800 11705 9770 9710 9645 9580 7215 6080 As/Pac/PabNG	05/21/88
1130	1200	Austria	ORF	21475 15430 13730 6155 ENA/As/Aus	09/26/89
1130	1200	Ecuador	HCJB	11740 Americas	02/18/89
1130	1145	Hungary	R Budapest	15160 11910 9835 9585 7220 6110 Eu Sa	09/24/89
1130	1225	Iran	R Tehran	11790 11715 9575 7215 SLSE As/ME/India	08/15/89
1130	1225	Netherlands	R Nederland	21615 21480 17575 9715 5955 Eu/ME/As #2 v Madagascar	09/02/89
1130	1200	Sevchelles	FEBA	15325 India F & Sa	09/30/88
1130	1230	Thailand	R Thailand	11905 9655 SE As	07/29/89
1200	1230	Australia	R Australia	21525 9770 9710 9580 7215 7205 6080 6060 As/Pac/PapNG	10/17/89
1200	1300	China	R Beijing	17855 15450 15400 11660 11600 ENA/SE As/S Pac	04/29/89

1200	1600	Ecuador	нсјв	17890	15115	11740						Americas	43 -1500	07/17/89
1200	1345	England	BBC		9515							WS: NA/CA/Carib	#113 Anti#2 Sack	09/23/89
1200	1225	Finland	R Finland		15400	9						NA	H-F	09/20/89
1200	1245	German Dea Rep	R Berlin Int'l		13690	9665	6115					Eu/NE	101 June 111	09/21/89
1200	1300	Ivory Coast	AWR Africa	17890								Af	Su only	02/28/88
1200	1230	Mongolia	R Ulan Bator		9615					11.1		Japan	5. 1	09/04/89
1200	1400	N Mariana Is	KHBI		9465							AUS/PADNG/SE AS	198/270 deo	10/14/89
1200	1230	Norway	R Norway	15165								NA/CA	Eng Sun only	08/17/89
1200	1225	Poland	R Polania		6095							Eu		08/15/89
1200	1230	Ronania	R Bucharest		15280							As		06/05/88
1200	1256	South Africa	Radio RSA		11900	11805						ELS Afr	#3 to Mamibia	10/26/89
1200	1400	USA	WRKD	9715								NA/CA	20 deo (Su oniv)	10/21/89
1200	1400	USA	WSHB		6150							CA/NE Canada	186/25 des	10/21/89
1200	1300	USSR	R Moscow			17660	17570	15550	15220	15155	15110	World Service	49 v Cuba	10/28/89
1200	1225	USSR	R Tashkent		11785				10110			As		09/09/89
1200	1215	Vatican State	Vatican Radio		21485							Aus/NZ/CESEN Af	4115 F -1220	09/16/89
	1330	Eavot	R Cairo	17595		1,000						A5	TARU (TELV	06/18/88
1230	1300	Australia	R Australia			9710	9580	7215	7205	6086	6060	As/Pac/PapN6		10/17/89
1230	1300	Bangladesh	R Bangladesh		15195		,	1210	1200	0000	0000	Eu		10/05/89
1230	1255	France	R France Int'l			17650	15365	15195	15155	11700	11670	Am/Afr/Ind/As/Eu	News & feat/English	
1230	1315	German Dem Rep	R Berlin Int'l		21465							As		09/21/89
1230	1300	Poland	R Polania		11840							Af		08/15/89
1230	1300	Sweden	R Sweden		17740							As/Pac		09/26/89
1235	1248	Greece	V of Greece		15630				-			NA/Sweden	News/Enc	08/15/89
1240		Liberia	ELWA	11830								CAN Afr	Su	05/14/89
1300	1330	Australia	R Australia		9710	9580	7205	6080	6060	5995		As/Pac/PapNo		10/17/85
1300	1400	Canada	R Canada Int'l		11855							Carib/USA	N-F	10/21/89
1300	1400	China	R Beijing		11855		11600					SE As/WNA/S Pac		04/29/85
1300	1330	China	R Canada Int'l		11955							SE As & India	via China	05/23/85
1300	1325	Finland	R Finland		15400							NA	N-F	09/20/89
1300	1400	6uan	KSDA	11980	9650							As	CONTRACTOR NO.	10/21/89
1300	1350	North Korea	R Pvongyang		11335	9600	9345	9325				SE As/An/Eu	4 1 7 1 1 1 1	11/25/88
1300	1330	Norway	R Norway	9590								Eu	Eng Sun only	03/30/89
1300	1355	Romania	R Bucharest	17850	15365	11940			12.24			Ep	CHE CAN DILLY	06/04/89
1300	1356	South Africa	Radio RSA	21590	17730	11805						Ind/Pak/FE	#3 to Namibia	09/08/89
1300	1330	Switzerland	Swiss R Int'l	12030	9535	6165						Eu - Ea	CO LO MONIDIE	10/14/89
1300	1500	Taiwan	NYFR 2 3	15055		1115						India	via VOFC	03/26/89
		USA	WHRI 6 P	11790	9465		10.00					Eu/CA/SA		08/28/89
1300	1500	USA	WYFR			11836	11580	6015	5985	1.00	15.7	NA	41.2.3.5 Network	08/06/89

1300	1400	USSR	R Noscow	21725	17655	17660	15655	17645	17570 1	15540 1	5220	World Service	#9 v Cuba	10/28/8
1300	1400	USSR	R Stn Peace & Progress	17870	17635	17610	15560					As/Ae/Aus		08/13/8
1300	1330	Yugoslavia	R Yuqoslavia	15325	15165	11735						NA/Aus/Far E		10/14/84
1310	1327	Chana	Int'l Red Cross	11695	9620							S&SE As/Far East	MowTh after last Su	03/18/8
1315	1400	German Dem Rep	R Berlin Int'l	15240	11705							ME		09/21/8
1330	1400	Australia	R Australia	21525	9580	7205	6080	6060	5995			As/Pac/PapNG		10/17/89
1330	1355	Belgium	BRT	21815	21810							SE As/NA	#1 H-F/#2 H-Sa	09/16/84
1330	1500	India	AIR	15335	11850	11810	11760	9565	9525			GOS/SE As	# 1.4.5 maybe tests	07/27/8
1330	1400	Switzerland	Swiss R Int'l	21695	17830	15570	13635	11695	9620			E Afr/India/Aus/NZ	#5%6 v China	10/14/89
1330	1400	Turkey	V of Turkey	17785								SW As		09/24/89
1330	1400	United Arab Emirates	R Dubai	21605	17775	15435	15320					Eu/Afr		06/04/84
1330	1355	USSR	R Tashkent	15460	11785	9715	9600	7325				As		09/09/89
1330	1400	Vietnas	V of Vietnam	15010	12030	9840								09/25/8
1345	1430	German Dem Rep	R Berlin Int'l	21540	21465	17880	15440					As		09/21/8
1400	1430	Albania	R Tirana	11985	9500							As/Aus		11/12/8
1400	1500	Australia	R Australia	21525	9508	7205	6080	6060	5995			As/Pac/PapNG	#1 -1430	10/26/8
1400	1700	Canada	R Canada Int'l	17820	11955							Carib/NA	Su	10/21/89
1400	1500	China	R Beijing	15165	11855	11795						S AS/WNA		04/29/89
1400	1425	Finland	R Finland	21550	15400							NA	SalSu -1500	09/20/B
1400	1425	France	R France Int'l	21770								SE As	news/English	07/17/89
1400	1445	German Den Rep	R Berlin Int'l	6115								Eu		09/21/89
1400	1700	Guas	KSDA	13720	11980							As/India	Eng 16-17	03/18/89
1400	1500	Japan	R Japan		9505							GOS/As/As		10/26/89
1400	1500	Malta	R Mediterranean	11925										09/24/B8
1400	1600	N Mariana Is	KHBI	15385	9530							SE As/India/China	285/310 deg	10/14/89
1400	1430	Norway	R Norway	21710								Ind/S As/Aus	Eng Sun only	08/17/89
1400	1556	South Africa	Radio RSA	25790	21590	21535	11925					UK/Eu/Af/NA/ME		06/07/89
1400	1500	South Korea	R Korea		9750	9 570						An/SE As		11/05/88
1400	1430	Sweden	R Sweden	17740	11905							As/Pac		09/20/89
1400	1600	USA	NCSN	21780								Eu	45 dea	04/24/89
1400	1500	USA	WHRI	15105	9495							Eu/CA/SA		04/24/89
1400	1500	USA	WRND	11965								NA/CA	20 deg (Su only)	10/21/B
1400	1600	USA	MSHB	17555								CA/Canada	245/315 deg	03/08/8
1400	1500	USSR	R Hoscow		17830	17660	17655	17645	15540 1	1840	. 1	World Service	\$7 v Cuba	10/28/89
1415	2055	Jordan	R Jordan	9560										09/25/89
1420	1430	Sudan	National Unity Radio	9435									nx/EE some days	12/19/88
430	1500	Austria	ORF			11780						N Af/SE As/Eu		04/01/89
1430	1457	Czechoslovakia	R Praque					13715	1685	9605		Afr/S As		04/14/89
1430	1525	Netherlands	R Nederland	17605	17575	15150	13770	5955			1	S&E As/Eu		01/22/89

1430	1455	Poland	R Polania	11815 9540 6135		Eu		08/15/89
1445	1530	German Des Rep	R Berlin Int'l	9730		Eu		09/21/89
1445	1515	Mongolia	R Ulan Bator	15305 9575 9645		India		09/04/89
1445	1500	Vatican State	Vatican Radio	11740 9645 7250 6248		Eu		09/16/89
1458	1610	Sevchelles	FEBA	11870 15325		India	Su & M & Sa	03/11/89
1500	1530	Australia	R Australia	9580 7215 7205 6080 60	60 5995	As/Pac/PapN6		12/10/88
1500	1600	China	R Beijing	15165 11855 11795		S AS/WNA		04/29/89
1500	1900	Costa Rica -	R for Peace Int'l	25945 7375			R-F	05/13/89
1500	1745	England	BBC	15260 11775		WS: WA/CA/Carib	41 Sack 142 Antiqua	04/06/89
1500	1550	Fed Rep Germany	R Deutsche Welle	21600 17810 11965 9735		SECRE AFr		05/01/88
1500	1635	Suan	KTWR	11650		India	No -1705	05/08/89
1500	1600	Japan	R Japan	21700 11815 9505		605/As/As/Eu/HE	#1 v Gabon	10/26/89
1500	1530	Philippines	R Veritas Asia	15445 9525		As		09/12/89
1500	1530	Romania	R Bucharest	17745 17720 15250 11940 117	75	As		06/04/89
1500	1515	Taiwan	WYFR	11550		ladia	via VOFC	03/26/89
1500	1600	USA	KNLS	7355		As	exc Non	10/05/89
1500	2200	USA	KUSH	15650		Canada	70 deg	07/30/89
1500	1700	USA	VOA	15205 9700		NE/N Af/Eu		09/24/89
1500	1600	USA	WHRI	21840 15105		Eu/CA/SA		07/04/89
1500	1600	USA	WWCR	15690				06/17/89
1500	1515	USA	WYFR	17895 13695 11580 5985		NA	41.2 Network	08/06/89
1500	1600	USSR	R Hoscow	21725 17660 15135 11840		World Service	#4 v Cuba	10/28/89
1500	1515	Vatican State	Vatican Radio	17870 15090 11955		As/Aus/NI		06/05/89
1505	1530	Finland	R Finland	15185 11850 9640		Eu/ME/Afr		09/23/89
1515	1600	USA	WYFR	17895 13695 11580 5985		NA	#1.2 Network	08/06/89
1530	1600	Albanza	R Tirana	11835 9480		Atr		12/24/86
1530	1900	Australia	R Australia	9580 7215 7205 6080 608	60 6035 5995	As/Pac/PapN6		12/10/88
1530	1630	Bulgaria	R Sofia	17825 15310 11735		Afr		09/24/89
1530	1625	Czechoslovakia	R Praque	21505 17705 15155 15110 1371	15 11990 11685 960	5 Afr/S As/Eu		04/14/89
1530	1538	Greece	V of Greece	17535 15630 11645		NA/Sweden	News/Eng ex Su	10/15/89
1530	1600	Sweden	R Sweden	21655 21610 17880		E AF/NA		09/20/89
1530	1600	Switzerland	Swiss R Int'l	21630 17830 15430 13685		ME/E Afr		04/25/88
1545	1600	Canada	R Canada Int'l	21545 17820 15325 15315 1365	50 11935 11915 955	5 CNE EU	\$3.6.7.8 v Eu relays	09/23/89
1545	1630	German Dem Rep	R Berlin Int'l	17880 15240		As		09/21/89
1545	1630	Pakistan	R Pakistan	21740 21480 17895 17565 1560	05 13665	NE/E&S Afr	Slow-speed news 1615	09/14/89
1545	1600	Vatican State	Vatican Radio	21650 17730 15120		EAF		05/29/89
1555	2205	Liberia	ELWA	11830		C&W Afr	M-Sa	05/14/89
1600	1700	China	R Beijing	15110 11715 9570		E&S Afr	#112 v Mala	04/29/89
1600	1650	Fed Rep Germany	R Deutsche Welle	21680 17825 75595 15105 722	25 6170 -	Aus/As		03/07/89

1600	1655	France	R France Int'l	17795	17620	15360	12015	11705	6175		Afr/HE/	As/¥ Eu	11705 v Gabon	09/06/89
1600	1800	N Mariana Is	KHBI	15385	9530						SE As/I	ndia	285/270 deo	10/21/89
1600	1650	North Korea	R Pypngyang	11760	9325						Eu			10/28/89
1600	1630	Norway	R Norway	21705	17840						NA/CA		Eng Sun only	08/17/89
1600	1630	Poland	R Polania	9540	6135						Eu			08/15/89
1600	1630	Portugal	R Portugal	21530							ME		H-F	10/06/89
1600	2100	Saudi Arabia	BC Serv of Kingdom of Si	9720									best later in xmsn	07/20/86
1600	1700	South Korea	R Korea	9870	5975						HE/Afr/	605		11/05/88
1600	1630	Swaziland	Trans World Radio	11835	11760	11740	5055	4760			ELS AF		only 1 freq/bnd used	06/05/89
1600	1640	United Arab Emirates	R Dubai	21605	15320	15300	11790				Eu/Afr			05/31/89
1600	1700	USA	KNLS	9815							As			10/21/89
1600	1800	USA	VDA	17870	17800	17785	15600	15580	15445 1	15410 11	1920 Africa			09/24/89
1600	1800	USA	NCSN	21640							E Afr		75 dec	08/28/89
1600	1700	USA	WHRI	21840	15105	13760					Eu/CA/S	A	42 Su 1 43 H-Sa	10/21/89
1600	2400	USA	WRND	15420							NA/CA/E	u	20 dec	10/21/89
1600	1700	USA	WYFR	21615	21525	17895	17612	15440	15215 1	13695	Af/Eu/N	ß	#3.7 Network	03/25/89
1600	1700	USSR	R Noscow	17810	17660	15540	15135	11840			World S	ervice	45 v Cuba	10/15/89
1600	1630	Vietnam	V of Vietnam	15010	12030	9840								09/25/88
1610	1625	Sevchelles	FEBA	15325							SE As		H-Sa	03/11/89
1615	1630	Hungary	R Budapest	15160	11910	9835	9585	7220	6110		Eu		K/Th	09/24/89
1630	1730	Argentina	RAE	15345							Eu/Afr			10/27/89
1630	1655	Belgium	BRT	21810	17580						Afr		M-Sa	09/16/89
1630	1830	Eqvpt	R Cairo	15255							S Afr			08/17/87
1630	1725	Netherlands	R Nederland	15570	15375						E&S Afr			09/02/89
1630	1700	Poland	R Polania	15120	11840	9525					Af			08/15/89
1630	1700	USSR	R Stn Peace & Progress	17615	17595	15545	12955	11910	11775 1	1695 11	670 At/As			10/15/89
1635	2400	South Africa	Radio 5	4880										09/08/85
1645	1730	German Dem Rep	R Berlin Int'l	17775	15340	9730	7295				Af/Eu			09/21/89
1645	1930	South Africa	Radio Oranje	3215										04/17/89
1700	1750	Brazil	R Bras	15265							Eu			10/27/89
1700	1800	China	R Beijing	15165	11575	9570					ELS Afr			04/29/89
1700	1800	Japan	R Japan	11815	9535	9505	7140				605/As/	Aa		10/26/89
1700	1750	North Korea	R Pyonoyang	11760	9325						Eu			10/28/89
1700	1730	Norway	R Norway	21705	15305						AF/NA		Eng Sun only	10/21/89
1700	1730	Switzerland	Int'l Red Cross	7210							Eu		No after last Su/mo	03/18/89
1700	1800	USA	VBA	15205	11760	9760	6040	3980			ME/N AF	/Eu	15 -1730	09/24/89
1700	1800	USA	WHE1	15105	13760						Eu/CA/S	Â		01/02/89
1700	2000	USA	WHER	9465									Su-Fr	08/30/89
1700	1900	USA	WYER	17895	15215	13695	11580				NA/Eu		#1.3 Network	03/25/89

1700	1800	USSF	R Roscow	17810 17770 17595 15545 15135 11840	WS : #2.3.4 Afr Serv	46 v Cuba	10/28/89
		Switzerland	Int'l Red Cross	17830 15525 15430 11955 9885	Africa	Mo&Th after last Su	03/18/89
		Canada	R Canada Int'l	21545 17820 15325 7235 5995	CLE Eu	#445 v Eu relays	09/23/89
		Pakistan	R Pakistan	15200 11570	W Eu		09/14/89
1725		Liberia	ELWA	4760			05/14/89
1730		Austria	ORF	13730 12010 6155 5945	# Af/SE As/Eu		09/26/89
1730		Czechoslovakia	R Praque		Afr/S As		04/14/89
	1800		R Bucharest	17860 17805 15365 15340 11810	Afr		10/26/89
	1804		FEBE	11810	SE As	F&Sa -1824	03/11/89
		Canada	R Canada Int'l	17820 15260	Afr		10/21/89
1800		Costa Rica	R for Peace Int'l	25945 21565		Sa-Su	07/17/89
1800		Czechoslovakia	R Praque	11855 7345 5930	Eu		05/21/89
1800		India	AIR	15360 11935	SOS/E Afr		05/24/89
1800	1815	israel	Kol Israel	11585	W Eu		08/27/89
1800	1900	Ivory Coast	R Cote-d'ivoire	7215		exc Sundavs	12/05/87
1800	2100	kuwait	R Kuwait	13610	Eu/Af/NA/Aus/NZ		10/20/89
1800			KHBI	17770 9455	S Pac/Japan	165/340 deg	10/21/89
1800	1830	Norway	R Norway	15265	ME/Af	Eng Sun only	10/21/89
1800	1856	South Africa	Radio RSA	21535	UK/Ireland		09/02/89
1800	1900	South Korea	R Korea	15575	Eu		11/05/88
	1830		R Sweden	7265 6065	Eu/Af		09/20/89
	1900		KNES	7355	As		10/21/89
1800		USA	VOA	15205 11760 9760 6040	NE/N Af/Eu		09/24/89
1800		USA	WCSN	21640	5 Afr	105 deg	08/28/89
	2100	USH	WHEI	17830 13760	Eu/CA/SA		02/15/88
		USSE	R Boscow	17810 15135 13625 11840	World Service	#4 v Cuba	10/15/89
1800	1830	Vietnam	V of Vietnam	15010 12030 9840			09/25/88
1801			VDA	21485 17870 17800 17785 15600 15580 15445 15410	Africa	¥ 7195	09/24/89
1605	1845	Swaziland	Trans World Radio	11835 11760 11740	E Af	only 1 freq/bnd used	06/05/89
1815	1900		R Bangladest	11510 7520	Eu/NE		03/13/89
1815	1900		R Berlin Int'l	9730 7295 7260	Eu		09/21/89
1830	1900	Albania	R Tirana	9480 7155	Eu		10/27/89
1830	1855	Belgius	BRI	11695 5910	Eu		09/16/89
1830	1930	Bulgaria	R Sofia	17825 15310 11735	Afr		09/24/89
1830	1900	Ethiopia	V of Ethiopia	9660	W Eu		01/22/89
1830	1915	Seraan Den Rep	R Berlin Int'l	15340 15145 13610 9665	Af		09/21/89
-	1925	Netherlands	R Nederland	21685 17605 15560	Afr	13617s Bon, 19s Mado	
1830	2105	New Zealand	R New Zealand Int'l	17705 15485	Pac		09/09/89
1830	1855	Poland	R Polania	11840 9525 7285 7125 6135 5995	Af/Eu		08/15/69

		Switzerland	Swiss R Int'l	*		9885	9535	6165	3985			Afr/Eu		10/14/89
1830	2300		WWER		15690									06/17/89
1840		Greece	V of Greece			12105	11645					S Afr	News/Eng ex Su	10/14/89
1845			AIR			7412						GOS/W Eu		07/04/88
1900		Afghanistan	R Afghanistan			11755						Eu		06/08/89
1900		Algeria	R Algiers				9640							01/30/88
1900	2000		R Australia				7205	608 0	6060	6035		As/Pac/PapN6		12/10/8B
1900	1930	Canada	R Canada Int'l		17820							Afr	H-F	10/21/89
1900	2000	China	R Beijing			9440						WEN Afr		04/29/89
1900	2100	Cuba	R Havana		11800							Eu/Af		10/15/88
1900	1957	Czechoslovakia	R Praque			7345						Eu		05/21/89
1900	2000	Ecuador	HCJB			17790						Eu		02/18/89
1900	1950	Fed Rep Germany	R Deutsche Welle		21600	17810	15390	13790	11785			W Afr -		03/07/89
1900	1930	Japan	R Japan		15270	11850	9505					605/An/Oc		10/26/89
1900	1930	Norway	R Norway		15220							Eu	Eng Sun only	10/21/89
1900	1930	Portugal	R Portugal		15250	11740						Afr/Eu	N-F	05/08/89
1900	1956	South Africa	Radio RSA		21535	15125	7295	5960				Afr/HE		10/26/89
1900	2000	Spain	Spanish Nat'l R		15395	15375	15280	11790				Afr/ME/Eu		03/06/89
1900	2015	Swaziland	Trans World Radio		5055	4760						S Af	only 1 freq/bnd used	06/05/89
1900	2200	USA	V04		21485	17800	17785	15600	15580	15445 15410	7195	Africa		09/24/89
1900	2000	USA	WYFR		21615	17895	15566	15215	13695			Eu/NA	12.5 Network	03/25/89
1900	1930	USSK	R Kiev		9600	7240	7205	7150				Eu		09/24/89
1900	2100	USSR	R Noscow		15135	13625	11840	9865				World Service	₿3 v Cuba	09/24/89
1900	1930	Vietnam	V of Vietnam			12030								09/25/88
1920	1930		V of Greece		11645	9395						Eu	News/Eng ex Su	08/15/89
1930	2000		ORF		13730	12010	6155	5945				S Af/ME/Eu		09/26/89
1930	2000	Bulgaria	R Sofia		15110	11720	11660					¥ Eu		09/24/89
1930	-	Canada	R Canada Int'l		17875	15325	11945	7235	5995			W Eu	M-F #415 v UK	09/23/89
1930		Finland	R Finland		15185	11755	9530					Eu/NE/Afr		09/23/89
1930	2000		R Budapest					9585	7220	6110		Eu		09/24/89
1930	2030	•	R Tehran			9022						NE/N Af/Eu/ENA		10/06/89
1930	2025		R Bucharest				9690	9750				Eu		06/04/89
1930	0300		Radio Orion			3320								04/17/89
1930	2000		R Yuqoslavia				5980					Af /Eu		09/26/89
1935		Italy	RAI				7275					Great Britain		04/08/89
1940		Mongolia	R Ulan Bator			9985						W Eu		09/04/89
1945		India	AIR			9755						605/W&N Afr		05/24/89
2000	2030		R Australia				7215	7205	6060	6035		As/Pac/PapNG		12/10/88
		China	R Beijing						9440	2700	•	WEN AF/ELS AF/Eu	#1&2 v Mali	04/29/89
2000	2100	LUIDE	w perlind		13110	11112	11000	1010						

2000	2400	Costa Rica	R for Peace Int 1	25945 21565		N-F	05/13/89
2000	2100	England	BBC	5975	WS: NA/CA/Carib	v Antiqua	09/23/89
2000	2300	Equatorial Guinea	R Africa	7189	Af		06/17/89
2000	2400	Guaa	KHBN	9840	China		10/21/89
2000	2100	Suae	KSDA .	11980 9495	As		08/28/89
2000	2030	Israel	kol Israel	17630 17575 15640 11605	Af/W Eu/NA		08/27/89
2000	2200	W Mariana Is	KHBI	17770 9455	Aus/Japan	180/340 deg	10/21/89
2000	2050	North Korea	R Pyongyang	9345 6576	Eu		09/10/88
2000	2025	Poland	R Polania	11840 9525 7125	At		08/15/89
2000	0100	USA	KVOH	17775	CA/Carib	100 deg	08/13/88
2000	2200	USA.	WCSN	13770	Eu	60 deg	10/12/89
2000	2200	USA	WSHB	17555 15610 13760	CA/Canada	137/25 deg : #3 alt	10/21/89
2000	2200	USA	WYFR	21615 21525 17895 17612 15566 13695 11580	Eu/Af/NA	43,6 Network	03/25/89
2000	2100	USSE	R Moscow	9685 9470 7380 7370 7240	UK/Ireland		09/24/89
2005	2105	Syria	R Damascus	12085 9950	Eu		09/02/89
2015	2100	German Des Rep	R Berlin Int'l	15340 13610 9665	Af		09/21/89
2025	2045	Italy	RAI	11800 9575 7235	Near East		06/17/89
2030	2100	Albania	R Tirana	11835 9375	Afr		06/05/88
2030	2100	Australia	R Australia	9620 7205	As/Pac/PapNG		06/02/89
2030	2200	Egypt	R Cairo	15375	W Afr		0B/17/87
2030	2125	Netherlands	R Wederland	15560 13700 9860	W Afr		04/08/89
2030	2130	South korea	R Korea	15575 7550 6480	Eu/NE/Afr		11/05/88
2030	2100	Vietnam	V of Vietnam	15010 12030 9840			09/25/88
2040	2140	Cuba	R Havana	15340 11725	Carib		09/04/88
2045	2130	German Den Rec	R Beriin Int'l	6115	Eu		09/21/89
2045	2230	India	AIR	11715 11620 9910 9550 7412 7265	605/W Eu/AusNZ/Af		05/24/89
2045	2100	Vatican State	Vatican Radio	15120 11760 11700 9625	CASAN AF		03/27/89
2050	2110	Vatican State	Vatican Radio	9645 7250 6190	Eu		09/16/89
2100	2200	Argentina	RAE	15345	Eu/Af	NWFSaGu	10/27/89
2100	2130	Australia	R Australia	17795 15240 15160 9620	As/Pac/PapNG		06/02/89
2100	2115	Caseroon	R Cameroon	5010		news in English	12/04/88
2100	2200	China	R Beijing	11500 9820	Eu		10/27/89
2100	2130	England	BBC	17715 5975	WS: NA/CA/Carib	#1 Bethanvi#2 Antig	09/23/89
2100	2150	Fed Rep Germany	R Deutsche Welle	15435 11785 9765 9670	Aus/As		03/07/89
2100	2110	Shana	Ghana BC Corp	3366		News in English	12/23/87
2100	2200	Suas	KSDA	15310 9495	. E As/Indon		08/28/89
2100	2130	Hungary	R Budapest	15160 11910 9835 9585 7220 6110	Eu		09/24/89
2100	2300	Iraq	R Baohdad	13660	Eu		10/08/89
2100	2130	Japan	R Japan	17890 15270 15230 11840 11835 7140	605/As/Oc/Eu	#5 v Gabon	10/26/89

						,						
2100	2125	Romania	R Bucharest	15250 11		9690	9750			Eu		06/04/8
2100	2200	Spain	Spanish Nat'l R	15280 117						Eu		03/06/8
2100	2130	Sweden	R Sweden	11705 96						Eu/Af		09/20/8
2100	2130	Switzerland	Swiss R Int'l	21705 15	525 1	3635	9885			Afr	#1 SSB	10/14/8
2100	2150	Turkey	V of Turkey	9795						Eu		09/24/8
2100	2400	USA	WHRI	17830 13	760					Eu/CA/SA		03/08/E
2100	0000	USA	MRND	13720						NA/CA/Eu	20 deglalt freq	08/28/8
2100	2200	USSR	R Moscow	11840 11	595	9865	7380	7370		World Service	♦1 v Cuba	09/24/8
2105	2205	Syria	R Damascus	17710 15	095					NA/Aus/NZ		09/24/8
2115	2245	Egypt	R Carro	9900						Eu		04/02/8
2130	2200	Australia	R Australia	17795 152	240 1	5160				As/Pac/PapN6		06/02/8
2130	2200	Bulgaria	R Sofia	15330 153	290 1	1720	11660			Eu		09/24/8
2130	2200	Canada	R Canada Int'l	17820 15:	150 1	1880				Afr		10/21/8
2130	2200	Ecuador	NCJB	17790 153	270					Eu		07/17/8
2130	2200	England	BBC	5975						WS: NA/CA/Carib	v Antiqua	09/23/
2200	2400	Australia	R Australia	21740 173	795 1	5320	15240	15160		As/Pac/PapNG		12/10/0
2200	2225	Belgius	BRI	9925 5	710					NA/Eu		09/16/8
2200	2300	Canada	R Canada Int'l	11945 9						# Eu		10/21/8
2200	2400		AWR Costa Rica	11870								06/17/8
2200	2300		R Havana	9685						Eu	v USSR	09/09/8
2200	2230	Czechoslovakia	R Praque	6055						Eu		05/14/0
2200	0030	England	BBC	12095 9	915	9590	7325	6175	5975	WS: NA/CA/Carib	#315 Sack!#6 Antiqua	04/06/8
2200	2225	Finland	R Finland	11755 6	120					Eu/ME/Af/Aus/SESE As		09/20/8
2200	2245	Serman Des Rec	R Berlin Int'l	9730						ENA		09/21/8
2200	0200	fuae	KSDA	15225 15	125					As/SE As	Eng 23-01	03/1B/1
2200	2225	Italy	RAI	11800 9		5990				Japan		10/17/4
2200	2230	Japan	R Canada Int'l	15440 11						SE As	v Japan	09/23/8
2200		Liberia	ELWA	4760							BBC & local news -15	10/11/6
2200		W Mariana Is	KHB1	15405 15	355					China/Jap/Phil/Indon	310/240 deg	10/14/1
2200			R Nigeria	4990							News in Eng	10/11/0
2200	2230	Norway	R Norway	15225						W Af/SA	Eng Sun only	10/21/8
2200	2230	Switzerland	R Beijing	3985						Eu		10/27/1
2200	2300	Taiwan	V of Free China	17612 15	370 1	5345	9955			Eu/AusNZ	#113 v WYFR	05/20/8
2200	2400	United Arab Emirates		13605 11						NA		05/27/1
2200	2230	USA	KGEI	15280						SA	Su	04/17/1
	0100	USA	KUSW	15580						Canada	70 deg	04/20/6
2200	2215	USA	VOA	15225 118	38C	9640				Caribbean/Americas	N-F	09/24/8
2200	2400		NCSN	15300						W Afr	90 deg	03/08/8
2200	0000		WSH8	17555 94	165					SA/NE Canada	152/25 deg	09/25/8

		12 HI 140 T			
2200	2300	USA	WYFR	21525 17612 11580 At/NA	03/25/89
2200	2300	USSR	R Moscow	9865 9765 9665 7380 7370 7160 World Service	09/24/89
2200	2300	USSR	R Stn Peace & Progress	11980 9775 7440 7340 6145 5905 Eu	09/24/89
2200	2245	Yuqoslavia	R Yugoslavia	11735 9660 9620 7215 Af/NA/Aus/Eu	10/14/89
2205	2225	Vatican State	Vatican Radio	15105 11830 9615 As/Aus/N2	06/05/89
2230	2300	Albania	R Tirana	9480 7215 Eu	10/27/89
2230	2330	Bulgaria	R Sofia	15330 11660 W Eu	09/24/89
2230	2300	Israel	Kol Israel	17630 15640 11605 LA/NA/W Eu	08/27/89
2230	2300	Poland	R Polania	7270 7125 6135 5995 Eu	08/15/89
2230	2300	Switzerland	Swiss R Int'l	6190 Eu	10/14/89
2230	2300	USSR	R Vilnius	6100 Eu	09/24/89
2230	2300	Vietnam	V of Vietnam	15010 12030 9840	09/25/86
2245	2330	German Dem Rep	R Berlin Int'l	9730 5965 ENA/Eu	09/21/89
2245	2255	Ghana	Shana BC Corp	4915 3366 News in English	12/23/87
2245	0000	India	AIR	15110 11745 11715 9910 9535 7215 GOS/As	05/24/89
2300	2330	Canada	R Canada Int'l	11736 9755 Carib	09/23/89
2300	2400	Japan	R Japan	21610 17810 15195 11835 11815 60S/As/Eu/ME #4 v Gabon	10/26/89
2300	2350	North Korea	R Pyongyang	13650 11735 As	12/28/87
2300	2330	Norway	R Norway	9605 NA/CA End Sun only	10/21/89
2300	2310	Sierra Leone	SLBS	3316 nx/Eng	09/05/89
2300	2350	Turkey	V of Turkey	17760 9795 9665 9445 SE As/Eu/HE/NH	09/24/89
2300	0000	USA	NRND	7355 NA/CA/Eu 20 declait freq	08/28/89
2300	0000	USA	WYFR	11580 NA	03/25/89
2300	0000	USSR	R Moscow	11750 9865 9765 972(7150 ENA and 7 other freq's	09/24/89
2300	2330	USSR	R Vilnius	17690 15455 15180 9765 7400 6100 NA/Eu	10/26/89
2305	2355	Poland	A Polania	7270 7125 6135 5995 Eu	08/15/89
2330	0000	Albania	R Tirana	11825 9760 6120 NA	10/15/89
2330	0030	Canada	R Canada Int'l	9755 5960 USA Sutho-0100	09/23/89
2330	0036	South Korea	R korea	15575 An	11/05/88
2330	2400	Vietnam	V of Vietnam	15010 12030 9840	09/25/88
2335	2345	Sreece	V of Greece	11645 9395 SA/CA News/End ex Su	08/15/89
2345	0145	New Zealand	R New Zealand Int'l	17705 15485 Pac/Aus/Helanesia	09/09/85

All Records Included

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

	Show Iasa			Record
Shortwave	Start Start		Freq Freq Freq Freq Freq Freq	Last
DX Program	Time Time Country	Station	#1 #2 #3 #4 #5 #6 #7 Target Area Notes re DX Show	Updated

	TH UNI OF THE WEEKS O	UIIU BY					
	World of Radio	0030	0000	USA	NRNO	7355 NA/CA also hrd at 0	100 10/26/89
	SWL Digest	0035	0000	Canada	R Canada Int'l	9755 5960 USA	10/21/89
	Diers Unligited	0035	0000	Cuba	R Havana	11820 Americas	09/25/88
	Radio World	0040	0030	Belgium	BRT	9925 NA/SA	09/16/89
	SWL Digest	0105	0100	Canada	R Canada Int'l	11940 11845 9535 LA	09/24/89
	Communications World	0110	0100	USA	VOA	15205 11740 11580 9815 9775 9455 6130 Caribbean/Americas	06/11/89
	SW Merry-Go-Round	0220	0200	Switzerland	Swiss R Int'l	17730 12035 9885 9725 6135 6095 NA	05/16/86
	Communicator	0230	0200	Australia	R Australia	21740 21525 17795 17750 15395 15240 15160 As/Pac/PapNG	05/21/88
	DX Asiawaves	0230	0200	Suas	KSDA	15225 13720 As	02/05/89
	Diers Unlimited	0235	0200	Cuba	R Havana	11820 9710 Americas	09/25/88
	Amateur Radio Spectr	0240	0200	South Africa	Radio RSA	11935 9615 9580 NA	03/18/89
	SWL Digest	0330	0300	Austria	R Canada Int'l	11925 NE	10/05/89
	Bonaire Wavelength	0330	0255	Netherland Antilles	Trans World Radio	11930 9535 NA/Carib	05/31/89
	SW Merry-Go-Round	0420	0400	Switzerland	Swiss R Int'l	12035 9885 9725 6135 NA	05/16/86
	Diers Unlimited	0435	0400	Cuba	R Havana	11820 11760 9710 5965 Americas	09/25/88
	DXers Unlimited	0635	0600	Cuba	R Havana	11835 Apericas	09/25/88
	SW Feedback	0635	0600	South Korea	R Korea	11830 9570 7275 Ae/60S	11/05/88
1	Communicator	0730	0730	Australia	R Australia	21525 17750 15395 15320 15160 9655 As/Pac/PapNG	12/27/87
	SW Feedback	0832	0800	South Korea	R Korea	13670 7550 Eu	02/26/89
	Pacific DX Magazine	08 45	0805	Guas	KTWR	15210 Far East	04/22/88
	AWR DI Program	0915	0900	Portugal	AWR Europe	9670 Eu	10/14/89
	DX Corner	0925	0900	Japan	R Japan	17890 17810 15270 605/As/Oc	04/03/88
	SW Club	1045	1045	Hungary	R Budapest	15160 11910 9835 9585 7220 6110 Eu	09/24/89
	Shortwave Panorama	1130	1130	Austria	ORF	21475 15430 13730 6155 ENA/As/Aus	04/01/89
	SW Feedback	1135	1100	South Korea	R Korea	15575 ME/Afr	02/26/89
	DX Programme	1200	1200	USSR	R Tashkent	15460 11785 9715 9600 7325 As Su after 2nd	Sat/mo 11/05/88

** DAY OF THE NEEK: Sunday

	Communicator	1230	1230	Australia	R Australia	21525 9770 9710 9580 7215 7205 6080 As/Pac/PapNG	12/25/87
•	Shortwave Panorama	1430	1430	Austria	ORF	21490 13730 11780 6155 W Af/SE As/Eu	04/01/89
	SW Feedback	1435	1400	South Korea	R Korea	15575 9750 9570 Ae/SE As	11/05/88
	DI Corner	1525	1500	Japan	R Japan	21700 11815 9505 GOS/As/Am/Eu/NE	04/03/88
	DX Show	1545	1530	Czechoslovakia	R Praque	21505 17705 15155 15110 13715 11990 11685 Afr/S As/Eu	08/13/89
	SW Feedback	1635	1600	South Korea	R Korea	9870 5975 ME/Afr/605	11/05/88
/	Communicator	1730	1530	Australia	R Australia	7580 7215 7205 6080 6060 6035 5995 As/Pac/PapNG	12/27/87
	SW Feedback	1835	1800	South Korea	R Korea	15575 Eu	11/05/88
	DX Corner	1840	1800	South Africa	Radio RSA	21535 UK/Ireland	02/05/88
	DX Show & Mailbag	1915	1900	USSR	R Kiev -	9600 7240 7205 7150 Eu	09/24/89
	Message for Diers	1930	1900	Spain	Spanish Nat'l R	15395 15375 15280 11790 Afr/ME/Eu	01/01/89
	DX Corner	1940	1900	South Africa	Radio RSA	21535 15125 7295 5960 Afr/ME	02/05/88
	OX Corner	2020	2000	Israel	Kol Israel	17630 17575 15640 11605 Af/W Eu/NA	08/27/89
V	Communicator	2030	2030	Australia	R Australia	9620 7205 As/Pac/PapNG	12/25/87
	SW Feedback	2105	2030	South Korea	R Korea	15575 7550 6480 Eu/ME/Afr	11/05/88
	Message for Diers	2130	2100	Spain	Spanish Nat'l R	15280 11790 Eu	01/01/89
	World of Radio	2130			WRND	15420 NA/CA/Eu	10/26/89
	World of Radio	2230	1800	Costa Rica	R for Peace Int'l	25945 21565	07/19/89
	DX Corner	2250	2230	Israel	Kol Israel	17630 15640 11605 LA/NA/W Eu	08/27/89
	SWL Digest			Canada	R Canada Int'l	11730 9755 Carib	03/22/89
	R Sofia Calling		2230	Bulgaria	R Sofia	15330 11660 W Eu	09/24/89
	DI Asiawaves		2200		KSDA	15225 15125 As/SE As	10/26/89
	** DAY OF THE WEEK: *	fonday					
	SW Feedback	0005	2330	South Korea	R Korea	1557 5 Ae	11/05/88
	DX Corner	0020	0000	Israel	Kol Israel	15615 12077 11605 NA	08/27/89
	Message for Diers		0000	Spain	Spanish Nat'l R	15110 9630 NA	01/01/89
	R Sofia Calling	0045	0000	Bulgaria	R Sofia	15330 11660 NA	09/24/89
	DX Show & Mailbag		0030	USSR	R Kiev	17690 15455 15180 9765 7400 NA	09/24/89
	DX Corner	0120	0100	Israel	Kol Israel	15615 12077 11605 NA	08/27/89
	DX Corner		0100		R Japan	17845 17835 17810 17755 60S/Asia/NA	04/03/88
	Message for Diers			Spain	Spanish Nat'l R	15110 9630 NA	01/01/89
	DX Corner	0220	0200	Israel	Kol Israel	15615 12077 11605 NA	08/27/89
	DX Corner	0245		South Africa	Radio RSA	11935 9615 9580 NA	02/28/88
	DX Show & Mailbag		0300	USSR	R Kiev	17690 15455 15160 9765 7400 NA	09/24/89
	DX Corner	0325	0300	Jagan	R Japan	21610 17835 17825 17810 17765 15325 15195 GOS/Asia/WA	04/03/88
	R Sofia Calling		0400		R Sofia	15140 11765 11735 11720 Afe/NA	09/24/89
	Message for Diers	0525	0500		Spanish Nat 1 R	9630 NA	10/14/89
	Wavequide			England	98C	9640 5975 WS: NA/CA/Carib	09/23/89

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DX Party Line	0800	0800	Ecuador	HCJB	11925	6130						S Pac		07/17/89
Radio World	0805	0800	Belgius	BRT	21815	11695	6035					SE As/Aus/Eu		09/16/89
Radio World	1005	1000	Belgius	BRT	26050	21810						Afr		09/16/89
OX Party Line	1030	0800	Ecuador	HCJB	11925	6130						S Pac		07/17/89
DX Asiawayes	1030	1000	Guas	KSDA	13720	11980						As		02/05/89
Radio World	1335	1330	Belgius	SRT	21815	21810						SE As/NA		09/16/89
SW Club	1615	1615	Hungary	R Budapest	15160	11910	9835	9585	7220	6110		Eu		09/24/89
World of Radio	1700	1500	Costa Rica	R for Peace Int'l	25945	7375								07/19/39
DX Party Line	2130	2130	Ecuador	HCJB	17790	15270						Eu		05/03/86
Diers Calling	2130	2045	India	AIR	11715	11620	9910	9550	7412	7265		GOS/W Eu/AusNZ/Af	biweekly	10/26/89
RBI DX Club	2220	2200	German Dem Rep	R Berlin Int'l	9730							ENA	biweekly	09/21/89
RBI DX Club	2305	2245	Serman Dem Rep	R Berlin Int'l	9730	5965						ENA/Eu	biweekly	09/21/89
DX Program	2345	2300	USSR	R Moscow	11750	9865	9765	9720	7150			ENA		09/24/89
** DAY OF THE NEEK:	Tuesday	,												
RBI DX Club	0105	0045	Gersan Des Res	R Berlin Int'l	11890	6080						ENA	biweekly	09/21/89
DX Program	0145	0100	USSR	R Noscow	21470	17840	17700	11750	9865	9720	7290	ENA		09/24/89
DX Party Line	0200	0035	Ecuador	HCJB	15155	11775	9745					NA		02/18/89
RBI DI Club	0220	0200	German Den Rep	R Berlin Int'l	11890	6080						ENA	biweekly	09/21/89
SW Club	0230	0230	Hungary	R Budapest	15160	11910	7835	9585	9520	6110		NA		09/24/89
RBI DX Club	0305	0245	German Den Rep	R Berlin Int'l	15125	11890	11785	6080				ENA/WNA	biweekly	09/21/89
Sweden Calling Die	rs 0305	0200	USA	WHRI	7495	7315						Eu/CA/SA	R Earth repeat	04/24/89
SW Merry-So-Round		0200	USA	WHRI	7495	7315						Eu/CA/SA	R Earth repeat	04/24/89
DI Program	0345	0300	USSR	R Moscow	21470	17840	17700	9865	9720	7290	7165	ENA		09/24/89
RBI DX Club	0405	0345	German Den Res	R Berlin Int'l	15125	11785						WNA	biweekly	03/26/89
RBI DX Club	0420	0400	German Den Rep	R Berlin Int'l	15125	11785						WNA	biweekly	09/21/89
OX Program	0445	0400	USSR	R Moscow	17840	17665	17605	15425	15180	12050		WNA		09/24/89
DI Party Line	0600	0500	Ecuador	HCJB	11775	9745	6230					NA		03/29/89
DX Program	0645	0400	USSR	R Moscow	17840	17665	17605	15425	15180	12050		WNA		09/24/89
Waveouide	1115	1100	England	38C	11775	9515	6195	5965				WS: NA/CA/Carib		12/19/88
Sweden Calling Die	1240	1230	Sweden	R Sweden	21570	17740	15190					As/Pac		09/21/38
SWL Digest	1335	1300	Canada	R Canada Int'l	17820	11855	9635					Carib/USA		10/26/89
Sweden Calling Die	rs 1410	1400	Sweden	R Sweden	17740	11905						As/Pac		09/21/88
Sweden Calling DIe			Sweden	R Sweden	21655	21610	17880					E Af/NA		09/21/88
DX Program		1600	Poland	R Polania	2540	6135						Eu		08/19/89
Sweden Calling Die	rs 1810	1800	Sweden	R Sweden	7265	6065						Eu/Af		10/26/89
SWL Digest			Canada	R Canada Int'l	17820	15260						Afr		03/22/89
Sweden Calling Die			Sweden	R Sweden	11705	9655						Eu/Af		09/21/88
World of Radio			Costa Rica	R for Peace Int'l	25745	21565								05/13/89

DX Program	2235	2230	Poland	R Polania	7270	7125	6135 5	995		Eu	22.000	08/19/89	14.
DX Program			Poland	R Polanza	7270	7125	6135 5	995		Eu Inde		08/22/89	
10.63;	-					167 B	.10			8 0			
** DAY OF THE WEEK:	Wednesda) ? *	the constant			17 1	194 H ET						
Sweden Calling Dier			Sweden	R Sweden	9640	7225				As/Pac	1 46 81 1	03/21/89	
SW Club			Hungary	R Budapest	15160	11910	9835 9	585 953	20 6110	NA		09/24/89	
Sweden Calling Dier				R Sweden	11705	9695			Vallen fallen	NA		09/20/89	
World of Radio			Costa Rica	R for Peace Int'l	21565	13660						05/13/89	
SWL Digest	0305	0300	Austria	R Canada Int'l	11925					ME		03/22/89	.8
DX Program			Poland	R Polania	9675	7270				Eu		08/19/89	4
Ham Radio Today			Ecuador	HCJB	11925	6130				S Pac		07/17/89	
Ham Radio Today	1030	0800	Ecuador	HCJB	11925	6130				S Pac		07/17/89	
DX Program			Poland	R Polania		9540				Eu		08/19/89	
Dier's Special			Argentina	RAE	15345					Eu/Afr 🔍		10/27/89	
OX Program	1835	1830	Poland	R Polania	11840	9525	7285 7	125 613	35 5995	Af/Eu		08/19/89	
Dier's Special			Argentina	RAE	15345					Eu/Af		10/27/89	
Ham Radio Today			Ecuador	HC38	17790	15270				Eu Sco Alle		01/30/88	
Latin mails	7 1.4	1		7					'd -				
++ DAY OF THE WEEK:	Thursday	9			57							2, 5, 11	
Waveguide	0130	0030	England	BBC	12095	7915	9590 7	325 617	75 5975	WS: WA/CA/Carib	_u0	12/19/88	
Ham Radio Today	0200	0035	Ecuador	HCJB FS		11775				NA		02/18/89	
World of Radio	0200 .			WRNO	7355	47	15			NA/CA		10/26/89	
Ham Radio Today	. 0600 (0500	Ecuador	HCJB	11775	9745	6230			NA		03/29/89	-
Media Network	1050	1030	Netherlands	R Nederland	11390	5020				Aus/Carib		04/10/88	
Media Network	1150	1130	Netherlands	R Nederland	21615	21480	17575 9	715 595	55	Eu/HE/As		08/22/86	
Hedia Network	1450	1430	Netherlands	R Nederland	17605	17575	15150 13	770 595	55	SHE As/Eu		09/04/86	1.1
SW Club	1615	1615	Hungary	R Budapest	15160	11910	7835 9	585 722	20 6110	Eu delle		09/24/89	19.
World of Radio	1630	1600	USA	WRNO	15420					NA/CA/Eu		10/26/89	
Media Network	1650	1630	Netherlands	R Nederland	15570	15375				ELS Afr		09/04/86	
Sedia Network	1850	1830	Netherlands	R Nederland	21685	17805	15560			Afr		08/22/86	
Media Network	2050	2030	Netherlands	R Nederland	15560	13700	9860			# Afr -		08/22/86	
World of Radio	2130	2000	Equatorial Guinea	R Africa	7189					Af		10/05/89	
and the loss of the					7	1 11							
** DAY OF THE WEEK:	Friday												
World of Radio	0000	0000	USA	WRND	7355					NA/CA		10/26/89	
Hedia Network	0050	0030	Netherlands	R Nederland		0165	6020	1 \$2460		ENA			
World of Radio	0130		USA	WRNO	7355					NA/CA		10/26/89	
SW Club			Hundary	R Budapest			19835 9	585 95	20 6110	NA		09/24/89	
Media Network	0350	0330	Netherlands	R Nederland	11720	7590				NNA		03/17/89	

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DI Show	1615	1600	Portugal	R Portugal	21530 NE	05/08/89 11/13/87
DI Show	1915	1900	Portugal	R Portugal	15250 11740 Afr/Eu	05/13/89
Norld of Radio	2000	2000	Costa Rica	R for Peace Int'l	25945 21565	
R Sofia Calling	2145	2130	Bulgaria	R Sofia	15330 15290 11720 11660 Eu 1st of wkend serie	5 47/24/67
** DAY OF THE WEEK: S	aturda	i y				09/24/89
R Sofia Calling	0015	0000	Əulqaria	R Sofia	15330 11660 NA	05/13/89
World of Radio	0030	0030	Costa Rica	R for Peace Int'l	21565 13660	10/20/89
Dier's Special	0135	0100	Argentina	RAE	11710 Americas	09/24/89
SM Club	0230	0230	Hungary	R Budapest	15160 11910 9835 9585 9520 6110 NA	01/16/88
DX Show	0245	0230	Portugal	R Portugal	11840 9705 9680 9600 SA/NA	
Dier's Special	0335	0300	Argentina	RAE	11710 Americas	10/20/89
World of Radio	0400	0400	USA	WRNO	6185 XA/CA	10/26/89
R Sofia Calling	0745	0730	Bulgaria	R Sofia	17825 15160 11765 W Eu	09/24/89
Pacific DI Magazine	1000	0930	Guan	KTWR	11805 AusNZ	10/28/88
SH Herry-Go-Round	1115	1100	Switzerland	Swiss R Int'l	21770 17830 15570 13635 SE As/Aus/NZ	09/06/86
SW Club		1130	Hungary	R Budapest	15160 11910 9835 9585 7220 6110 Eu	09/24/89
Bonaire Wavelength	1130	1055	Netherland Antilles	Trans World Radio	15345 11815 ENA/Carib	05/10/89
World of Radio	1200		Equatorial Guinea	R East Africa	9585 Af	10/06/89
DX Programe	1330		USSR	R Tashkent	15460 11785 9715 9600 7325 As 2nd Sat of sonth	11/05/88
Radio World	1340		Belgius	BRT	21815 21810 SE As/NA	09/16/89
SW Merry-So-Round	1345		Switzerland	Swiss R Int'l	21695 17830 15570 13635 11695 9620 E Afr/India/Aus/WZ	09/04/86
Amateur Radio Spect				Radio RSA	25790 21590 21535 11925 UK/Eu/Af/NA/HE	07/29/89
Pacific DI Magazine				KTWR	11650 India	02/22/88
SM Merry-Go-Round		1530		Swiss R Int'l	21630 17830 15430 13685 ME/E Afr	05/24/86
DI Asiawaves		1400		KSDA	13720 11980 As/India	02/05/89
Radio World	1640			BRT	21810 17580 Afr	09/16/89
Radio World	1840		Belgium	BRI	11695 5910 Eu	09/16/89
Amateur Radio Spect				Radio RSA	21535 UK/Ireland	10/07/89
World of Radio	1930		Costa Rica	R for Peace Int'l	25945 21565	07/19/89
	1935		Cuba	R Havana	11800 Eu/A4	10/08/98
Diers Unlimited				Radio RSA	21535 15125 7295 5960 Afr/NE	10/07/89
Amateur Radio Spect			USA	VDA	21485 17800 17785 15600 15580 15445 15410 Africa	09/24/89
Communications Worl				Swiss R Int'l	21705 15525 13635 9885 Afr	05/24/86
SM Herry-Go-Round	2115			V of Turkey	9795 Eu Biweekly	09/24/89
DX Radio Tips	2120				17820 15150 11880 Afr	03/22/89
SWL Digest			Canada	R Canada Int'l	11945 9760 W Eu	10/21/89
SWL Digest	2205			R Canada Int'l	9925 5910 NA/Eu	09/16/89
Radio World	2210			BRT	17760 9795 9665 9445 SE As/Eu/ME/NA Biweekly	09/24/89
DX Radio Tips	2320	2300	Turkey	V of Turkey		

7110, 6050; 1230-1240 EG/Hindi 17900, 15415, 15275, 15250, 11855, 11620, 9615, 7280, 3905; 1330-1335 Hindi 10330, 9950, 9770, 7160, 6045, 4860, 3925, 3905; 1335-1340 Hindi Sports News 7140, 6140, 3925; 1430-1435 EE 9950, 7412, 7160, 7140, 6045, 3925, 3905; 1435-1440 EG Sports News 9950, 4860, 3925; 1515-1530 Hindi 10330, 9950, 9565, 7412, 7160, 7140, 6140, 6115, 6045, 4860, 3925, 3905; 1530-1545 EG 10330, 9950, 9565, 7412, 7160, 7140, 6140, 6045, 4860, 3925, 3905; 1730-1740 EG/Hindi 10330, 9950, 7412, 7140, 4860, 6140, 3925. (WBI 10/13) AIR Home News Service(2): 0125-0130 Sanskrit 9610, 7145, 4860; 0135-

7145, 4860; 0135-0145 Assamese 15305, 11870, 9550; 0135-0145 Telugu 15200, 11830, 9610; 0145-0155 Oriya 15305, 11870, 9550; 0145-0155 Tamil 15200, 11830, 9610; 0155-0205 Bengali 15305, 11870, 9550; 0155-0205 Malayalam 15200, 11830, 9610; 0205-0215 Kannada 15200, 11830, 9655, 9610; 0215-0225 Gujarati 15200, 11830, 9665, 9610; 0215-0225 Kashmiri 4860; 03-0310 Dogri 7210, 4860; 03-0310 Marathi 11780, 9665, 9610; 03-0310 Punjabi 3905; 0310-0320 Sindhi 9665, 9610, 7210, 4860; 0320-0330 Urdu 15200, 9665, 9630, 9610, 4860; 07-0710 Telugu 15250, 15125, 11935, 9675; 0710-0720 Tamil 15250, 15125, 11935, 9675; 0720-0730 Malayalam 15250, 15125, 11935, 9675; 0740-0750 Kannada 15250, 15125, 11935, 9675; 0750-08 Gujarati 15250, 15125, 11935, 9675; 08-0810 Bengali 17850, 11735, 9565; 08-0810 Marathi 15250, 15125, 11935, 9675, 7110; 0810-0820 Assamese 17850, 11735, 9565; 0810-0820 Punjabi 7110; 0820-0830 Oriya 17850, 11735, 9565; 0820-0830 Urdu 15250, 15125, 9675, 7110; 1115-1130 Arunachal 15320, 11850, 9610; 1240-1245 Sanskrit 17900, 15415, 15275, 15250, 11855, 11620, 9615, 7280, 3905; 1245-1255 Sindhi 7280, 3905; 1245-1325 Hindi/Gurkhali (Armed Forces Programme) 4860; 1255-1310 Kashmiri 7280, 3905; 1335-1345 Assamese 10330, 9770, 6045, 3905; 1335-1345 Telugu 9950, 7160, 4860; 1345-1355 Dogri 4860, 3925, 3295; 1345-1355 Oriya 10330, 9770, 6045, 3905; 1345-1355 Tamil 9950, 7160; 1355-1405 Malayalam 9950, 7160; 1355-1405 Nepalese 9770, 3905; 14-1410 Punjabi 3365; 1405-1415 Bengali 10330, 9770, 6045, 3905; 1405-1415 Kannada 9950, 7160; 1420-1430 Gujarati 7160, 7140, 4860, 3925, 3905; 1435-1445 Marathi 9770, 7160, 7140, 6045, 3905; 1545-16 Urdu 9565, 7412, 3925. Additional Data: Regional Radios: Most services are off Assamese 17850, 11735, 9565; 0810-0820 Punjabi 7110; 0820-0830 Oriya 7412, 3925. Additional Data: Regional Radios: Most services are off the air between 1740 and 0025 gmt. Some stations may close down earlier or open later. Most stations will carry news in Hindi and English from Delhi. Transmitter Sites: North Zone: Delhi: 9630, 6190, 4960, 3365; Bhopal 7180, 5990, 3315; Simla 6020, 3223; Lucknow 7250, 4880, 3205; East Zone: Calcutta 7210, 6010, 4820; Gauhati A: 7280, 4940, 3375 ϵ B: 7150, 4775, 3235; Kohima 6065, 4850, 3268; Ranchi 7125, 6140, 3305; Aizawal 7295, 5050; Kurseong 7230, 4895, 3355; West Zone: Bombay 7240, 4840; South Zone: Madras 7160, 4920; Hyderabad 7140, 6120, 4800; Port Blair: 9600, 7180, 4760, 3330; Jammu & Kashmir: Srinagar 7270, 6110, 3277; Jammu 5960, 4950, 3345. Vividh Bharati: 0125-0130 9535; 0130-03 9535, 7260; 03-04 9535; 0630-07 15125; 0830-0945 15125, 11830; 0945-1030 15125; 1030-12 11830, 9750; 13-1330 9615; 1330-1430 9615, 6115; 1430-1630 6115. This service relays bulletins in Hindi from the AIR News Service at 0230, 1515 & 1735 gmt. (WBI 10/13)

Aik urges listeners to report on events in Burma. Monitoring research 14 Sep 89. On 14th September, All India Radio's Burmese service announced that the play normally carried on Friday evenings would be dropped temporarily in favour of a new feature called "The Voice of the People" (Burmese: "Pyithu Athan") as "a contribution to help alert the Burmese people to the happenings around them, to enable them to march successfully in unity towards their democratic goals, and to heighten their sense of patriotism and loyalty". The station requested listeners "to write to us giving detailed eyewitness accounts, your personal feelings, factual news and reports of actual incidents which were not reported in the Burmese newspapers or on radio and television". Pointing out that it did not have correspondents or representatives in Burma, the announcer urged "all listeners "to write to the station "and make their stories known". (WBI 9/29)

IRAQ - 13660, 2107, Radio Baghdad, EG, M w/news t/2109 then W w/ID "This is Radio Baghdad the Broadcasting Service of the Iraqi Republic" into ME music on 10/7. Note: EG from *21 now. (bmm)

JAPAN Radio Tanpa's 'Sunday Roundup' program is now called 'Weekly

Roundup' since October and is broadcast twice now: 1230 UTC Sat on 9595, 6055, 3925 and repeated on Sunday at 1630. (bmm)

Radio Japan D89 EG Sked 11/5-5/3: Regional Service: NA Ø1-Ø13Ø 17755; Ø3-Ø33Ø 187Ø, 17825, 21610, 15325(via French Guiana); Ø9-1Ø 1527Ø, 1789Ø. General Service: Asia, SE Asia: Ø1-Ø2, Ø3-Ø4, Ø5-Ø6, Ø7-Ø8, Ø9-1Ø 1781Ø; 11-12, 14-16, 17-18 11815; 21-213Ø 1523Ø, 1184Ø; 23-240Ø 2161Ø, 1781Ø. Asian Continent: Ø1-Ø2 17835; Ø3-Ø4 17835, 17765, 07-Ø8 17765; 11-12 184Ø; 17-18 714Ø; 21-213Ø 714Ø; 23-24 15195, 11815; S.Asia: Ø1-Ø2 17845; 17-18 9535; NA: Ø3-Ø4 596Ø(via Sackville,Canada); Ø5-Ø6 17825, 1187Ø; 11-12 612Ø (via Sackville,Canada); 14-16, 17-18, 19-193Ø 95Ø5; Oceania: Ø5-Ø6 & Ø7-Ø8 1789Ø; 19-193Ø 1527Ø, 11850; 21-213Ø 1789Ø, 1527Ø; Eur, ME & Afr: Ø3-Ø33Ø 9645(via Gabon); Ø7-Ø8 2169Ø(via Gabon), 15325; 15-16 2170Ø(via Gabon); 21-213Ø 11835.

- KUWAIT 15505, Ø015, Radio Kuwait, Now signing off at Ø015. A canned ID and a time check for 3:15 and gone. Nothing to indicate the reason for the change. (Hans Johnson, GA) 21675NF for Radio Kuwait an extensio of use at 18-21 after AR programming but on 10/16 nothing on 21675 so perhaps this was a test. (Joe Hanlon, PA)
- LIBERIA According to SIM NOW, Muslims have purchased a 250,000 watt transmitter to promote Islam. The article does not mention whether station will be SW or MW, and also according to SIM NOW, missionary radio broadcasts now totals 1000 hours daily, not including North America, using 160 languages. The four sponsors of BY 2000 Radio Project--HCJB, ELWA, TWR, and FEBC--carry programs in 115 major languages. By the year 2000 they hope to increase the total to 267. Within ELWA's listing area 51 language groups have been identified with at least one million persons in them. As part of the cooperative effort ELWA will try to have 42 of the 51 languages used in their broadcasts by the end of this century. At the present ELWA is already broadcasting at least one-half hour daily in 10 of the 42 languages. Plans are being made to increase air time in 9 other languages in which now transmits in for less than 30 minutes per day. Research is also going on to determine the 14 languages of the remaining 23 that will have broadcasts over ELWA. SIM Radio Coordinator, Stan Bruning estimates "the first-year cost of each language at \$30,000. (Marlin Field, MI)
- MALAYSIA Effective 8/31/89 (32nd National Day), the radio channels are now known as follows: Radio 1 (formerly the National Network or White Network) in Bahasa Malaysia; Radio 2 (Formerly known as Radio Malaysia FM Stereo) in Bahasa Malaysia still in Stereo, Radio 3 for all broadcasts from state regional stations, these of which are situated in the capital city of each state; Radio 4 (formerly the Blue Network) in EG; Radio 5 (formerly the Green Network) in CH and Radio 6 (formerly the Red Network) in Tamil. Each of the channels now also have a slogan of their own, the jingle with the slogan of which is heard regularly throughout the respective transmissions and they are for Radio 1 "Sepanjang Waktu" (Around the Clock, Radio 2 "Penghibur Anda" (Your Entertainer), Radio 3 "Ibu Kota" (Capital City), Radio 4 "Your Entertainment Station" (Stesen Hiburan Anda), Radio 5 "Mesra Bersama Anda" (Your Selection).

The change was officially announced at several minutes past midnight of 8/31 by the Information Minister, Datuk Mohamed Rahmat who also went on to launch another historical event called "Radiothon 89" ie non-stop broadcasting for the radio for 4 consecutive days till 9/3. Radiothon 89 involved 3 levels of broadcasting being national (with participation too from members of the RTM Listeners and Viewers Group set up in selected areas-10 existed then while one more just came about last week as well as broadcasts from all the stations in the country, regional(ie within the SEAsia region with link ups from stations in the region) and international (link up from Los Angeles, London, Cologne, Tokyo, Seoul, Hilversum of course with the assistance of their overseas service in this case the Voice of America, BBC World Service, Deutsche Welle, Radio Japan, Radio Korea and Radio Nederland). This enabled a wide link up of broadcasts from across the Malaysian people living abroad closer to the country, sep students and diplomats. RTM had sent several of their staff to the abovementioned international stations to broadcast back to the country from the station concerned. (Lim Kong Jin in his "SE Asia DX News" No. 5 dated 9/89)

- MALTA R. Mediterranean has been fair to good on 9765 from *06-07 in EE then into AR service. On 10/14 Sugar & Spice pgm at 0639 tune-in W announcer talking about a woman who wrote a book "Discrimination in Life" and Protection of the Unborn Child t/0644 then W talking about "How to Stop Smoking" in 5 days on 10/14 (bmm)
- MONGOLIA Ulan Bator R. On 4081.2v (jumping to 4082 at times) from 2227 with M&W in Mongolian; at 2232 orchestral fanfare, then long talk by M till 2245, when W took over. Dropped rapidly and was virtually gone by 2300, but had been fair at peak, in fact, as strong as I can ever remember this frequency from the East Coast. Signals on 3960 and 7260.4 with same fade pattern were probably UBR as well on 9/18 (Bob Hill, MA)
- MOROCCO RTV Marocaine On new 7290 since 10/1 from around 1930 w/ME music, talk in what seems strongly accented AR (the Maghreb variant, no doubt) and news on the hour intersperesed with several IDs for Rabat; cuts off at 2100 in mid-program. Fair-quality telephone audio; good to excellent signal after co-channel presumed TWR Monaco goes off at 2000. Probably has same 1700-2100 schedule WRTH lists for 15330, which can't be copied through co-channel QRM on 10/1 (Bob Hill, MA)
- $\frac{MYANMAR}{end}$ The correct spelling is hereby noted with an extra 'R' at the end. This spelling is supported in that at the recent South East Asia Games held 8/20-8/31, the country's sports contingent had participated with items bearing their country's name spelled thus, so guess that is correct. (Lim Kong Jin, Penang, Malaysia)
- NORTHERN MARIANAS KHBI, Saipan, Final Freq Sked D-89 01 11/5-01 3/25: Transmitter #1: 0000-04 Off The Air; 04-08 17780 China; 08-10 9530 CS Japan/Korea; 10-12 9530 China; 12-14* 9465 Philippines; 14-16 9530 China; 16-18 9530 S.Asia/India; 18-22* 9455 Japan/Korea; 22-24* 15405 China. * = Out-of-band on non-interference basis. Transmitter #2: 0000-06 Off The Air; 06-08 17855 Philippines; 08-10 17855 Australia/New Zealand; 10-12 15115 Indonesia; 12-14 15285 DCI C&W Australia; 14-18 15385 India; 18-20 17770 New Zealand; 20-22 17770 Australia; 22-24 Indonesia; 0000-02 Philippines. * = Out-of-band on non interference basis. (George Jacobs & Associates Inc, MD)
- PAKISTAN 11570, 1807-1037, R. Pakistan (to Eur?), Fair level. Fluttery. M w/talk in a language I think was Urdu. Pakistan often mentioned. Another M spoke just before 1815, then a W at 1815. Then M took over w/commentary. Then a W gave what was obviously a political speech. Continued in same vein until 1830, swapping announcers often. At 1830 Pakistani music w/vocal. Breaking up badly by 1837 tune out. on 10/9 (Bob Palmer, WA) 17725, 0335-0345* and around 0410, R. Pakistan, Swahili as scheduled 03-0345. Pakistani music 10340. Anthem 0343 and 0345*. Pakistan mentioned. Am sure it's them. Overthe-pole reception excellent tonight. Later, around 0410 caught 17725 in Gujarati w/M speaking. Pakistan was atop a Moscow broadcast, not Radio Moscow itself, but one of their minor external services. Checked 21575(from latest sked). It was in there all right, but barely audible on 10/10 (Bob Palmer, WA) 21580, 0433-0439, R. Pakistan, Urdu, Very weak. S-0 but 100% readable in unbelieveably quiet band. Koran at tune-in. Then M w/announcements followed by W at 0436. Then a choral selection of Pakistani music. //'s 15605 barely discernable under slop from 15608 and 17660 even worse under Moscow on 17665 which was running 35db over S9. Had to use narrow filter and LSB to detect that it was there! on 10/10. (Bob Palmer, WA)
- PAPUA NEW GUINEA Found EG News at 0900 on NBC 4890//3220 R. Morobe, 3325 R. North Solomon Islands, 3235 R. West New Britain, 3385 R. East New Britain, local news, "This is NBC National News." All freqs Poor-Fair on 10/5 (Ralph Famularo, Japan)
- PERU 5660.6, 0200, La Voz de Cutervo, 0200 W announcer chimed in every

couple of songs. Only local music heard including some tunes with drums and flutes. Canned "La Voz de Cutervo" ID's on top of songs at $\emptyset 307$ and $\emptyset 325$ on 9/25 (Hans Johnson, GA) 6724.3, $\emptyset 155$, Radio Satelite, Talk by M w/mention of Cajamarca. R-R-Radio Satelite ID quickly on the hour followed by some sound effects. The beginning of Steve Miller Band Jungle Love - something like that. M kept talking w/a mention of Santa Cruz. Announcements by W at $\emptyset 206$ but she came in at a different level than the M on 9/26. (Hans Johnson, GA) $\frac{6895.3}{\text{between every song}}$ with about a minute of talk. First 3 songs female vocalists. Ute present but station readable tonight on 9/27. (Hans Johnson, GA)

PHILIPPINES - On 11 April 1989, Radio Veritas celebrated twenty years of broadcasting. Those taking part in the celebration included, among others, Philippine President Corazon Aquino, and Manila Archbishop. Jaime Cardinal Sin. Conceived mainly through the help of German Catholics and German agencies, the implementation of the project was the responsibility of the late Rufino J. Cardinal Santos. Today Radio Veritas broadcasts in 15 Asian languages. English may

Today Radio Veritas broadcasts in 15 Asian languages. English may be heard from Ø130 to Ø220 on (Freqs since been updated as below) and at 15-1530 on 9525 (updated freq) & 15445.

Evelyn S. Agato, writing in English Focus, the quarterly magazine of the English Service, gave the following information about Radio Veritas: The Quezon City studios are used for the production of programs. Programs of the different languages are recorded, dubbed, mixed and edited in these studios. Two studios with newly installed equipment from Europe, broadcast the programs to the target areas through a link to the Malolos and Palauig Transmitters in Zambales... Palauig, a small coastal yet mountainous town in Zambales now carried on its back the 300 hectares of Radio Veritas Shortwave transmitters. In 1986, the 250 kW transmitter donated by Cardinal Hoeffner of Cologne, West Germany started servicing the silent churches in China, Burma, Korea, and Vietnam.

The installation of the new recording studios in Quezon City this year was completed just in time for the additional 250 kW transmitters also in Palauig to service the Indian and SE Asia audiences.

Different antennas are utilized to broadcast programs to different parts of Asia. A project made possible by its consultant Fr. Hugo Delbaere, the Palauig transmitter will continue to expand to serve Asian audiences to the fullest. (Marlin Field, MI)

<u>Radio Veritas Asia</u>: Change in frequency for the Radio Veritas Bengali, EG, Telugu broadcast at 01-0230 once again: 17795 takes over the use of 15220 w/15360 still in //. The new frequency may not be permanent for its still 'shakey' and tends to go off the air often but 15360 is as strong as ever. Good Reception. (Lim Kong Jin, ibid) <u>11850</u>, 0900, FEBC, EG, M w/ID announcing 'Studio 10' regular magazine program. Host: Patrick Murphy on 10/14 (bmm)

PORTUGAL - 9600, 0012, R. Renesenca, PT, IS u/RMoscow on 10/15 (bmm)

- SIERRA LEONE 3316, 2300, SLBC, EG News read by M. ID at 2305. "This news is coming to you from the Sierra Leone Broadcasting Corporation". Foot ball scores also given. Some gospel music after the news and sign off at 2316 on 9/30 (Hans Johnson, GA)
- SRI LANKA 17800, 0320-0350*, Deutsche Welle to Afghanistan, Pashto, Fair level but fluttery. Clear channel. Quiet band. 100% copy. M w/commentary on world events. Different M w/more commentary at 0328. Afghan music 0334. More talk at 0337 by M. Music 0345. ID and freqs by M at 0348. Checked //21650 & it was quieter and less fluttery. Just before s/off 0350, M gave ID in EG and mentioned Trincomalle as being the transmitter site and Afghanistan the target on 10/10. (Bob Palmer, WA)
- SUDAN Radio Omdurman observed on 11625 kHz Monitoring research 5-10 Oct 89. Radio Omdurman has been observed since 5th October with a relay of its general programme on 11625 kHz from 0355-06 and 1055-19 gmt approximately. Programmes are mainly in Arabic except at 1530-16 gmt when a daily English broadcast, consisting of news, a press review and music is carried. (WBI 10/13) Note: EG only heard now on 9540 1530-16 as monitored on 10/18 onwards. (bmm)

- SWITZERLAND Red Cross Broadcasting Service, Geneva Sked: Dates are: Sun: 11/26, 12/31, 1/28, 2/25; Mon: 11/27, 1/1, 29, 2/26; Mon, Thu: 11/2,27,30; 1/4,29; 2/1,26; 3/1; Tue, Fri: 11/3,28, 12/1, 1/2,5,30, 2/2/27, 3/2: 0110-0127 Tue, Fri SS Am, 17730-B, 12035, 9885, 9725, 6135, 6095; 0310-0327 Tue, Fri EE Am 12035, 9885, 9725, 6135; 0740- 0757 EG Mon, Thu EG Australia 21695, 17670, 13685, 95060; 1040-1057 Ver and the service of th Mon, Thu Asia 21770, 17830, 15570, 13635, 9620-C; 11-1240 Sun EG,FR,GM,SP Eur 7210; 1310-1327 EG Mon, Thu, Asia 21695, 17830, 15570, 13635, 11695-C; 1510-1527 AA Mon, Thu, ME/Af 21630, 17830, 15430, 13685; 17-1840 Mon EG,FR,GM,SP, Eur 7210; 1710-1727 FR, EG Mon, Thu, Af 117830, 15525, 15430, 11955, 9885; 1840-1857 FR, EG, Mon, Thu, Af 21705, 15525, 15420, 13635; 2210-2227 PT, Mon, Thu, Am 15570, 12035-G, 9885, 9810. C = China; G = Gabon; B = Brazil. (WBI 10/6)
- AlWAN 10/10 (Double 10) was the 40th Anniversary of the Republic of China. At 1635 on 10/10, I found these CBS stations all in parallel. 11905, 7105, 6180, 6087, and I found these frequencies jammed: 9690, 7250, 6040. 7105 was the best frequency to listen to. (bmm) 7445, 10/10 (Double 10) was the 40th Anniversary of the Republic of TAIWAN 1538, V. of Asia, Indo, "The Human Race" on 10/6. Song written by American after the Beijing Massacre. It is on the BMI Label if you're interested in getting that song. (bmm)
- NISIA 15450.1, 0255, Radio Tunisia, Announcing freqs followed by PSA's and gave the following schedule for SW: 03-2230 15450; 05-17 TUNISIA 17610; 03-05 & 17-2230 12050(sic)(PWBR 90 shows 12005(bmm) & 03-05 & 18-2230 7475; 05-18 11550. They're not following this too closely as I have heard both 7475 and 15450 on at 0000. (Hans Johnson, GA)
- UNITED KINGDOM At the end of the BBC World Service Program 'Multitrack 1' on 10/10 at 1215, Paul Barnett announced that Tim Smith will be the new host of the program as of next week. Mr. Barnett will be back next week to host "The Vintage Chart Show". (Eric Bopp, CA)
- <u>VITED STATES</u> VOA takes care of Catch-22: Norman, OK transcript 10/2/89: Washington (AP) The Voice of America says it's taken care of a Catch-22 situation in which its broadcasts to Angola were UNITED STATES disturbed by a radio station run by U.S.-backed rebels.

But Rep. Mervyn Dymally, D-Calif., says he wants to know exactly what happened this summer when "The Voice of Resistance of the Black Cockerel," a station experts say was set up by the CIA, interrupted Portuguese-language broadcasts by the VOA, the U.S.-government-

Supported station that serves overseas listeners. Dymally, chairman of the House subcommittee on international operations, said last week he'll raise the issue in panel hearings operations, said last week he'll raise the issue in panel. "The need this year. "I wrote a letter of protest about it," he said. "The need this time unhindered and unhampered is great for the VOA to have at this time unhindered and unhampered access to its consumers in Southern Africa," Dymally said. (John Carson, OK)

The following schedules courtesy of George Jacobs & Associates Inc, Silver Spring, MD.

KUSW, Salt Lake City, UT - Final Operating Sked D-89 11/5-01 3/25:
 (All broadcasts directed to Canada) 6135 07-11; 6175 05-07; 9815* 03-05; 9850* 11-15; 11695* CS 01-03; 15580* CS 22-01; 15650* 15-22. * =
 Out-of-band operation on non-interference basis; CS = Crash Start.
 KVOH, Simi Valley, CA - Final Operating Sked D-89 01 11/5-01 3/25:
 11960 04-08 Caribbean; 13695* 02-04 Caribbean; 17775 12-02 Caribbean.

* = Out-of-band operation on non-interference basis.

WCSN, Scotts Corner, ME - Final Operating Sked D-89 01 11/5-01 3/25: 14-16 21780* Eur; 16-18 21640 EAf; 18-20 21640 SAfr; 20-22 13770 Eur; 20-22 9465** Eur; 22-24 15300 WAf; 0000-02 9850* WAf; 02-04 9850* EAf; 04-06 9870* SAf; 06-08 9840* Eur; 06-08 7365** Eur; 08-10 9840* Eur; 10-14 Off-Air. * = Out-of-band operation on non-interference basis; ** = Out-of-band occasional use.

WHRI, Noblesville, IN - Final Operating Sked D-89 Øl 11/5-Øl 3/25: 6100 Ø6-08; 7355* Ø8-11 & Ø000-06; 7520* 11-13; 9465* 13-15; 9495* Ø000-08; 11790 11-14; 13760** 16-17; 13760* DCI 17-24; 15105 14-16; 15105*** 16-17; 15105 17-18; 17830 18-0000; 21840* 15-17. * = Out-ofband operation on non-interference basis; ** = Monday thru Saturday; *** Sunday Only; DCI = Drop Carrier Immediately.

WRNO, New Orleans, LA - Operating Sked D-89 Ø1 11/5-Ø1 3/25: 16-24

15420 NA & Eur; 0000-04 7355 NA; 04-06 6185 N&CAm; 06-12* 6185 N&CAm; 12-14* 9715 N&CAm; 14-16* 11965 N&CAm; 23-24** 7355 N&CAm; 21-24** 13720 N&CAm & Eur. * = Sunday Only; ** = Occasional use. WSHB, Cypress Creek, SC - Final Operating Sked D-89 Ø1 11/5-Ø1

3/25: Transmitter # 1: 0000-02 7400 ENA & Caribbean; 02-04 9455 CNAm & CAm; 04-06 9455 W&CNA; 06-08 9455 WNA; 08-10 113760* Australia & Oceania; 08-10 11770** Australia & Oceania; 10-12 6150 ENA; 12-14 6150 ENA; 14-16 13760 W & CNA; 16-20 Off The Air; 20-22 15610 ENA & Eur; 20-22 13770** ENA & Eur; 22-24 9455 ENA & Caribbean. * = Out-of-band operation on non-interference basis; ** = Occasional use. Transmitter <u>#</u> 2: ØØØØ-Ø4 1376Ø* SAm; Ø4-Ø6 1376Ø* Mexico; Ø6-Ø8 1198Ø* W.Mexico; Ø8-1Ø 9455* Brazil; 1Ø-12 9455* E.SAm; 12-14 1193Ø CAm; 14-16 17555* Mexico; 16-2Ø Off Air; 2Ø-22 17555* E.SAm; 22-24 17555* Brazil. * = Out-of-band operation on non-interference basis. <u>17855NF</u>, 2056, VOA, Site Unknown, CH, W talk and //17765 after 21(when I checked this freq.) At 2200 17765 QRM'd by CPBS-1 signing on but 17855 in the clear, till 2300 when Radio Beijing signs on in Spanish on 10/13 (bmm)

U.S.S.R. - Additional Broadcasts on Latvian and Belorussian external services: Monitoring research 24 Sep-5 Oct 189: Since the introduction of autumn schedules on 24th September, Radio Minsk has been observed with a new broadcast in Belorussian for listeners in North America

from 2330-24 gmt daily on 17690, 15180, 11675 and 9610. Also since 24th September, Latvian Radio has introduced a new transmission in Latvian for listenrs in Western Europe from 1730-18 gmt on 1143 kHz. The broadcast on 5th October was a repeat of 2030 and 2130 gmt programmes of 4th October. the

The 1143 kHz transmitter, which carries Radio Moscow programmes at other times, is listed as being located at Kaliningrad with a power of 500 kW.

Radio Baku, Baku, Azerbaijan SSR External Sked: Freqs Used: 6135, 6110: During summer time in the USSR all programmes will be heard one hour earlier than shown. Ø330-0415 Persian ME; 11-1145 Persian; 12-13 Turkish; 13-15 Azeri; 15-16 Turkish; 16-17 AA. (WBI 10/13) Radio Dushanbe External Sked: Freq: 4975. Ø2-Ø3 Dari Asia; 1230-13 & 14-15 Dari Asia; 1530-16 & 1730-18 Persian ME; 18-1830 Dari Asia.

(WBI 10/13)

Kazakh Radio, Alma- Ata External Sked: Freqs Used: 7255, 5915, 5035. All Bdcsts in Kazakh Language. 0000-0030, 01-0130, 1330-14, 14-1430, 15-1530, 16-1630. (WBI 10/13)

Latvian Radio, Riga, Latvian SSR Sked: Freq: 5935 to Eur. The service in Latvian goes under the title "Amber Coast" radio (Latvian: Dzintarkrasts). During summer time in the Latvian SSR, programmes will be heard one hour earlier than shown. 08-0830 Sunday Swedish Eur; 0930-1030 Sun Latvian Eur; 13-14 except Tue & Fri RR (Radiostantsiya Atlantika Eur; 2020-2050 Tue, Thu, Sat; 2030-21 Wed Latvian; *2050-2130* Tue, Thu, Sat overall in Latvian w/music 2050-21, News (relay of Latvian Radio First Pgm) 21-2110, Entertainment (Relay of Latvian Radio First Pgm 2110-2130; *21-22* Sunday Latvian W/News (relay of Latvian Radio First Pgm) & Repeat of 0930 broadcast 2105-22; 2130-22 Wed Latvian (Repeat of 2030 broadcast); 2130-22 Tue,Thu,Sat Swedish (Repeat of

2020 broadcast) (WBI 10/13) Radio Moscow's African Service at 2000 in EG noted on 17770 and 17595. (Joe Hanlon, PA)

(Tentative) Yakutskoye R. - On 4920, evidently this from 2145 in seeming discussion or dramatic reading (too weak and choppy to ascertain language); at 2159 RS Rodina IS on 10/1. Seems late to be Yakutsk, which is well past sunrise by 2200 this time of year. (Hill) 12000, 0600, R. Moscow, Armavir(?), EE, ID, World News, "Outlook"; Ridgewood, New Jersey High School Students in Moscow//9635(Fair). Good 10/5 (Ralph Famularo, Japan)17655, 0525, R. Afghanistan Relay, on Pushto or Dari?, Islamic-style recitations, 0530 time pips; 5-minute M talk, possible news, brief music interlude, more recitations. Moderate-severe QSB. Poor-Fair on 10/12 (Ralph Famularo, Japan)

VIETNAM - 12019NF, 1618, V. of Vietnam, EG, Viet Vocal, W announcer, Strong Het //9840. Ex 15010 & ORM from RFI on 12015NF 10/22. (bmm)

CLANDESTINES - Radio Democracy: No broadcast between Sep 10th and 21st. Came up again on Sep 22nd. It is presumed that RD had serious damage by Typhoon #19 across Taiwan, that was strongest this year. RD has not been observed from 09-10 since Aug 31 and often heard also around 15 to 16. So the recent sked should be anywhere from 1000 to 1600 except Tues and Weds as a rule. Monitored as follows: 9/8: 10, 1140, 1250, 14, 1515. 9/9: 10, 11, 1235, 1330, 15. 9/22: 1020, 1125, 1250, 14, 1515. 9/23: 1335, 1440, 1545 (1 missed monitored at 09-13), 9/24: 10, 11, 1235, 1330, 15. 9/25: No broadcast in spite of Mon. 9/28: (I missed at 11-13 and 14-15). 9/29: 1125, 1235, 1330, 15. 9/30: 1020, 1125, 1250, 14, 1515. 10/1: 1045, 1140, 1335, 1440, 1545. 10/2: 10, 11, 1235, 15. 10/3: 1020, 1250, 14, 1515 (This day is Tue!). 10/5: 1125, 1250, 14, 1515. 10/6: 10, 11, 1235, 1330, 15. 10/7: 1045, 1140, 1335, 1440, 1545. 10/8: 1045, 1125, 1250, 14, 1515. 10/9: No broadcast in spite of Mon. 10/12: 1140, 1335, 1440, 1545. The word indistinct in the opening announcement has become clear, this word is 'stream'. The 1st line becomes "The democracy is just the stream which should not be opposed in this world." This station's frequency is recently 7126.1 kHz. (Tetsuya Kondo, Yokohoma, Japan) Voice of Democratic Kampuchea - Since Oct LN's was typed, I have

Voice of Democratic Kampuchea - Since Oct LN's was typed, I have been hearing the freq of 9440//17533 at *2330 w/17533 heard best and 9440 poor. (bmm) 201

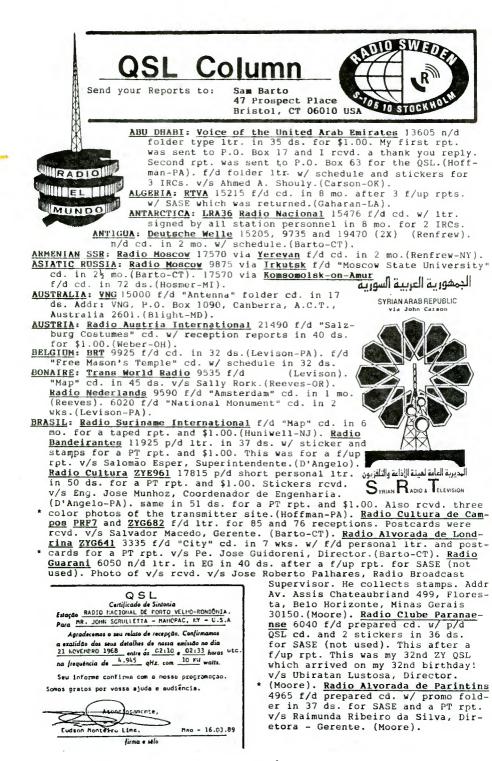
Voice of the Libyan People - I finally heard the station Radio of the National Front for the Salvation of Libya, The Voice of the Libyan People on 10/1 at 0457 on 15700, thanks to your tip. A few impressions. The station had a few minutes of AA music as an interval signal. This was followed by an ID and fanfare. This baby was jammed from the start with what a I call a "video racecar" jammer. A schedule was announced and the parts I heard through the jamming concurred with what was in LN. This was followed by a short Koranic recitation (incidentally this is something you will hear rarely, if ever, on Libyan radio. A speech followed with an appeal for an intifada! and references to students at the university of Benghazi and the armed forces. Rather than blasting Qaddii, the speeches I heard emphasized the "strength of the Libyan People." Traditional Muslim closes down at the end of the speeches-As-salamu alay-kum, Peace be upon You. 1 wish I could give you more details, but the racecar kept shifting gears. I'll continue to listen and will eventually provide you with a more accurate impression. I'm rather surprised that their on their own QSL card they call themselves "The National Front". If I had heard this on my own, I would have translated it as Popular Front without any of the second thoughts that happen so often in translation. Oh well, it's their organization. The jammer is obviously Libyan, and the best bet is this is coming from Egypt. Perhaps WBI will provide more information on location in the next few months. (Hans Johnson, GA) Note: Nothing in WBI as of 10/13 and I thank you for the follow up. Very interesting! (bmm). Voice of Malayan Democracy - This pro-China radio station is hostile to the Malaysian Government and to Soviet/Vietnamese influence

Voice of Malayan Democracy - This pro-China radio station is hostile to the Malaysian Government and to Soviet/Vietnamese influence in South East Asia. The Voice of Malayan Democracy (Malay: Suara Demokrasi Malaya - Standard Chinese: Ma-lai-ya min-zhu-zhi-sheng) was inaugurated on 1st July 1981. It replaced Voice of the Malayan Revolution which ceased broadcasting on 30th June 1981. Sked: 04-0445 Malay, 0445-0515 Chinese-Std, 1215-13 Malay, 13-1330 Chinese-Std on 6700, 6007. (WBI 9/29)

Vietnamese Resistance Radio - National Unified Front for the Liberation of Vietnam. This radio station was first observed on 22nd February 1984. It announces that it broadcasts from Base Camp No. 15 of the National Unified Front for the Liberation of Vietnam. Its establishment was welcomed by a Vietnamese newspaper published in Paris on 1st February 1984. Sked: All broadcasts daily and in Vietnamese. 02-03, 06-07, 10-11, 14-15, 22-23 on 7300. (WBI 9/29)

<u>7125.8</u>, Radio Democracy - tuned at 1025 just as M was giving "Minzhu guangbo diantai" ID, then I had to leave. This on 10/3; not there next day. Perhaps emanating from USSR? More information about this station in DX Spread #82. (Bob Hill, MA) & Tetsuya Kondo's observations above. (bmm)

UNIDENTIFIED - On 4771.5v (constantly drifting between 4771 and 4772), an Asian station from 2227 with Oriental-style vocals and talk by W in seemingly non-tonal language; very weak and faded below readability by 2245. Constantly drifting between 4771.1 and 4772.2. This on 9/30; only a faint drifting BFO note audible since. Transmitter behavior and musical style suggest Vietnam, but 2245 fadeout would be unusually early for that area. Perhaps Pyongyang? or an Indonesian? Sure sounded exotic! (Bob Hill, MA). 73's, Butce



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NOTES: George Zeller in Cleveland, OH says the last time he was a member of this fine organization it was called NASA. That was back in the early 60s. Glad to have you back with us...Sam. Roland Schulze from West Germany sent along a very nice letter explaining the AWR situation on 17890... which is actually from Gabon and not the Ivory Coast. Thanks for the info Roland Sam. Robbie Reeves, a new member from Troutdale, OR (sounds like a nice place!) says he wants to start contributing to the OSL Column and other sections of the bulletin. Thats fine with me...Sam. Kirk Allen in OK was especially pleased

MEXIC

TRAT .	
C.L. T. S	
Confirmance as reporte dal	
Harze 9. dc 1913	
ESTACION HOZIGA	
Hararia da Transmission - Francismo	PARA BAUDALICIDADO
00.00 h	
12 00 h	EDUARUO R. RUGIN
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with his recent QSLs from Greenland and Somalia. The total cost of the Greenland QSL was about \$18.00 if you consider the letters, IRCs, phone calls to the station, etc... Kirk's C/V total is now 194 and counting...Sam.

BRASIL: Radio Clube Rondonopolis 2480 f/d prepared cd.
* w/ a long PT ltr. in 49 ds. for SASE. This was for a f/up rpt. on a 79 reception. Tourist magazine was also rcvd. v/s Canario Silva and Aderaldo Francisco, Departamento Publicitario. Station now on 4955 khz.
* (Moore). Radio Gazeta de Alagoas 3325 f/d prepared cd., PT ltr. and station stickers in 8 mo. for a PT rpt. and SASE. This was for a f/up rpt. on an 80 reception. v/s Flavio Jatoba. He collects Coca-Cola paraphenalia and flora/fauna postage stamps. Addr: Rua Aristeu de Andrade 355, Farol CEP 57000, Maceio, Alagoas.(Moore)....Don says that current postage from Brasil to the US seems to be 2300 Cruzados or 2.3 Novo Cruzados....Great report Don...Sam.
BYELORUSSIAN SSR: Radio Moscow 7105 via Orsha f/d cd.

BYELORUSSIAN SSR: Radio Moscow 7105 via Orsha f/d cd. in 3 mo.(Barto-CT). f/d "Moscow State University" cd. in 2 mo.(Barto). 15320 and 15350 via Minsk f/d cds. in 3 mo.(Barto). 15540 f/d cd. in 47 ds.(Gaharan-LA).

CANADA: Radio Canada International 17875 DIY "Canada Film Year" cd. in 10 ds. for 1 IRC (returned). (Carson-OK). 9755 f/d "1988 Human Rights" cd. in 1 mo.(Reeves-OR). Radio Austria International 6015 via RCI f/d "Costume" cd. in 2 mo. for a taped rpt. and \$1.00.(Huniwell-NJ). CKZU 6160 f/d "CBC Centre" cd. in 15 ds.(Reeves-OR).

CHILE: Radio Santa Maria 6030 f/d "Map" cd. in 3 wks. after a f/up rpt. in SP for \$1.00. v/s Pedro Andrade Vera. Also rcvd. nice station pennant, sticker and a promo for their DX Mailbag program.(Allen-OK).

CHINA, PEOPLES REP. OF: Radio Beijing 9440f/d "Cloth Ornament" cd. w/ lapel pin in 1 mo. v/s Fan Fuguang. (Eckert-PA). 15130 same cd. in 19 ds. v/ paper cuts. (Levison-PA). same in HEPUBLICA DEMUCRATICA TO DE S TOME E PHINCIPE 27 ds. w/ station MINISTERIO DE INFORMAÇÃO pin and schedule. Richard A D'AugeRADIO NACIONAL DE S. TOME E PRINCIPE (Reeves-OR). Beijing Municipal Rad-Cane Pastal a." 44 - 1 1044 io Station 6290 Auradacemos e confirmamos o relete de ascule referente à amissão transmitida pala nossa f/d cd. in 3 mo. meção, no dia, horas e freguância abalxo mencionadas for a CH rpt. (Bar-Nous vous remerçoss et confirmons la condition de reception concernant à l'emission to-CT) n par autre Station de Hadio, dans le jour, heures et frequence aus dessous: CLANDESTINE: Voice of We shank and confirm the reception condition, concerning the emission of our station in Democratic Kampucs and frequency down. hea 9440 f/d ltr. in 2 mo. v/s Song Die 9 1124. 1/184 anire de 22.50 . 23.02 hores IMG heutes GMT cutre Theng, Third Sec-retary to the UN. Le tour 1. hours GMT ---1 in the day Fraquèncie de 4307 KH2, bande de 60 metres Dans la frequence de KH2, bande de (Barto-CT). metre Dans la frequence de KHZ, bend of ____mehars In frequency of Artinia Jesastina

CLANDESTINE: Voice of the		REL: LA VOZ DEL PUEBLO AYMARA
* Arab Fatherland 11700	ENISORA DEL ARIORISPADO	DE LA PAZ - DIRIGIDA POR LOS HERMANOS DE LA BALLE
finally rcvd. a p/d A file- Radio Jamahiriya OSL	G. Lanza 2001 Casilla 4792	Tells, 3-21174 - 3-55371 La Par - Bolivia
cd. in 2 mo. after sev-		
eral f/up rpts. for a 77		
receptionNot too sure if	<u>C E R</u>	TIFICADO
this was a clandestine type outlet or one of their pro-		
grams at the time.(Barto).	El presence cercificado	de Recepción se confiere al Sr.Ron Howard
COLOMBIA: Radio Macarena 5975		rala, Estados Unidos de America y confirma
f/d cd. w/ ltr. and sticker	su recepción fue correct	ta el 21 y 22 de Marzo de 1989 e Hrs.
in 3 mo. for a SP rpt. and	04:25 a 05:12 am. y de	04:25 a 05:00 am. repectivamente, nuescro
\$1.00. v/s Enrique Zambrano Nieto, Gerente.(Wakisaka).	transmisor de onda cort	a (6080%Hz) transmitfa al programa Rosario
* La Voz del Rio Arauca 4895	de la Mañana en lengus	symmeth.
p/d ltr. in 29 ds. for a		La Poz 4 de Abril de 1989
SP rpt. and ms. v/s Gabriel	du. Annutada A	- ACREE Develo (DIN)
COSTA RICA: TIFC 6175 f/d cd.	/ sticker and	ereo 16555, Bogota.(D'Angelo).
\$1.00. v/s Juan Jacinto Och	ba F., Manager	.(Wakisaka-MD).
CUBA: Radio Rebelde 5025 f/d 1	tr. in 88 ds.	for a SP rpt. Also rcvd. penn-
ant, postcards, stickers and	d newspaper. v	/s Ana M. Castro, Relaciones
University" cd. in 2 mo. (Ba	D MOSCOW 11840	via <u>Habana</u> f/d "Moscow State f/d cd. in 72 ds.(Hosmer-MI).
CZECHOSLOVAKIA: Radio Praha 73-	45 f/d "Kozel	Chateau" cd. for 2 IRCs.(Car-
DENMARK: Radio Denmark 15165 f.	/d "Watercolor	/Flowers" cd. in 19 son-OK).
ds. for \$1.00. v/s Beule Ban		
Card in 2 mo. for a SP rpt.		
f/up rpt. v/s Ing. Socrates		akisaka).
* Radio Mil 4930 form ltr. w/	incorrect dat	e after 10
f/up rpts. for a 1980 reception		o Justiniano,
Vice Pte. Director General. <u>ECUADOR: HCJB</u> 11775 f/d "Stamps		s. for 1 IRC
* v/s Glens Volksbrandt. (Carso		
de los Caras 4795 n/d ltr.		
\$1.00. v/s Ing. Marcelo Neva <u>Radio Rio Amazonas</u> 4870 n/d		
ant in 5 mo. for a SP rpt.	and $$1.00$, v/s	and jerrow penne
Diaz, Gerente.(Wakisaka). p.	/d personal lt	r. w/ pennant in 31
ds. for a SP rpt. and ms. The	nis after seve	
cd. in 2 mo.(Barto). 15470	12055 via <u>Arma</u> F/d.cd.in 3 m	vir f/d "University" 0
21450 f/d cd. in 2 mo.(Renf)	rew-NY). 15465	via Moscow f/d cd. in
3½ mo.(Barto). 17660 f/d cd	. in 2 mo.(Ren	frew), 15490 and 15550
via <u>Tula</u> f/d cd. in 8 wks.(1	Renfrew).15540	via Ryazan f/d cd. in 2
mo.(Renfrew). 15220 via <u>Mos</u> via <u>Kenga</u> f/d "Lenin Mausole	cow f/d cd. in	23 mo. (Renfrew-NY). 6115
sk f/d cd. in 74 ds. w/ sche	edule.(Lane-IL).RCV26 Radio Moscow 9145
f/d "Lenin " cd. in 3 mo. fo	or EG transmis	sion in USB. Transmitter
* is believed to be located at	Kupanova (Ba	rto-CT). ROW27 Radio Moscow
13960 f/d "Bolshoi Theatre"	ca. in 2 mo.	(Barto). RRG29 Radio_Mos-
	with h	cow 18460 same f/d cd. in
Q.S.L. Jackborn	Mini	3 mo. for RS transmission
~	2/4/89	in USB. (Barto). <u>RKA72</u>
Line Margheologic	LIZE Stamp	<u>Radio Moscow</u> 10740 same f/d cd. in 3 mo. for RS
This is to acknowledge your reception report of LY Jahr		transmission in USB.(Bar-
198. gand to confirm that the programme you heard on 3.215		to-CT). RWW76 Radio Moscow
File-12 1969 came from our Brandwaring Section in Balan.		19830 f/d "Moscow State University" cd. in 2½ mo.
12.	Address of Lisener	for RS transmission in
TRANSMISSION PERIODS G.M.T. (Local Tuna- O.M.T 13	Confectioner a listoner	USB.(Barto-CT).
abo KHZ Medium Wave to K.W. 100 hrs to 900 hrs.	1. 102 266	FRANCE: Radio France Inter-
J225 MHZ Shert Wave / K.W. J	illurater	<u>national</u> 9790 f/d "Place des Vosges" cd. in 30 ds.
achione 24	Acres 04489	w/ schedule for 2 IRCs.
A Balas City/Balas, BA. 24	5 A	(Carson-OK).

FRENCH GUIANA: Radio France Inter-فسلنوالقت national 11670 f/d cd. in 28 ds. (Lane-IL). Radio Japan 15325 n/d Jordan Radio and 1 يو ___ الاذاعــة والتلفزيون cd. in 47 ds.(Lane-IL). Television Corporation GERMAN DEMOCRATIC REPUBLIC: Radio Berlin International 21465 f/d cd. 6.4 ارتم .. in 75 ds.(Renfrew). 13610 f/d cd. الناريخ -Date - 9-6-1989 in 83 ds. w/ schedule.(Levison-PA). 11785 f/d "Q-Code" cd. in 35 ds. Dear Mr. Kris Field: for 1 IRC. (Carson). f/d "1924 Bruckner Crystal" cd. in 24 ds. for 1 IRC We are pleased to receive your Reception Report. (Carson). f/d "Lieben Amplifier" cd. We look forward for your continued cooperation with in 24 ds.(Carson-OK). 9730 f/d "City Radio Jordan. of Rostock" cd. in 35 ds. (Carson). Your Reception Reports are of help to us, indeed. We GERMANY, FEDERAL REPUBLIC OF: Sudwestdo verify them especially if they do include the 7265 p/d "Globe" cd. w/ several funk " SINPO " code evaluation. stickers in 13 ds. for \$1.00(return-Sorry for being late in answering your letters. ed).(Wakisaka-MD). However, we do welcome you as a sincere listener GUAM: KTWR 11805 f/d "Old Spanish Bridge" of Radio Jordan. cd. in 35 ds. w/ personal note and schedule. v/s Sharon Cummings.(Kremer) Best Regards from f/d "Cocos Island" cd. w/ personal ltr. ÷ ť Radio Jordan and schedule. (Zobro-MI). CUATEMALA: Radio K'ekchi 4845 p/d 1tr. w/ pennants in 6 mo. for a SP rpt. and \$1.00. v/s Gilberto Sun Xicol, Gerente. (Wakisaka-MD). HOLLAND: Radio Nederlands 6165 f/d "Bonaire" cd. in 52 ds. for 1 IRC.(Carson). 9895 via Flevo f/d "25 years of European Space Agency" cd. in 44 ds. This is a new series of 5 cds. (Hoffman-PA). HONDURAS: Radio Luz y Vida 3250 f/d cd. in 3 mo. for a SP rpt. and \$1.00. (Wakisaka). 3249.6 f/d cd. in 209 ds. for a SP rpt.(Field-PA). HUNGARY: Radio Budapest 9520 f/d cd. in 87 ds.(Kacir-MI). 9585 f/d "Architecture" cd. in 3 mo.(Kacir-MI). ICELAND: Icelandic National Broadcasting Service 17558 f/d cd. in 50 ds. for \$1.00.(Weber-OH). INDIA: All India Radio 11715 via Bombay, 7215 and 11745 via Delhi and 9910 via Aligarh f/d cds. in 4 mo.(Barto). COMMERCIAL 8 A D 1 O PIRATE ~ FRFF M QSL 11620 f/d "Meenakshi Temple, Madurai' COMMENTS: 2 WE WAY A IN RESPONSE TO THE RECEPTION OF WEND BY: nt bur wins et ATEL View Ma how ha cd. w/ schedule in 49 ds.(Blight-MD). JAPAN: Radio Japan 11815 n/d "Tanabata 31101223 201 Festival in Tokyo" cd. in 1 mo. for Country + Dave 6. Co 1 IRC. (Carson-OK). same cd. in 40 ds.(Levison-PA). 11865 same n/d cd. UNDERDOGS OF FREE RADIO THE VOICE OF THE UNDERDOGS OF VIA Rich D'Angelo in 40 ds.(Reeves-OR). JAVA: RRI Jakarta 11865 p/d cd. w/ schedule in 21 ds. for ms. v/s Nazaruddin Sy., Public Relations.(D'Ange-JORDAN: Radio Jordan 9560 f/d cd. in 9 mo. for a taped rpt. and 2 10-PA). IRCs. (Eckert). KOREA, REPUBLIC OF: Radio Korea 15575 "36th Anniversary" cd. w/ stamps and stickers for 3 IRCs. (Carson-OK). (Blight-MD). LIBYA: Radio Jamahiriya 15450 and 15235 f/d cd. in 170 ds. for 3 IRCs. MALAYSIA: Voice of Malaysia 15295 p/d personal ltr. in 44 ds. for \$1.00 w/ note stating not to send \$ in the future! v/s Fee A/P Lin Chew.(D'Ange-10-PA). f/d personal ltr. w/ schedule in 44 ds. for IRCs. (Woloch-QUE). 11885 and 15295 p/d ltr. in 21/2 mo. w/ new style station pennant. (Barto-CT). MALI REPUBLIC: Radio Beijing 9770 via Bamako f/d "Tem-DAJE 29. 5.89. ple in Beijing" cd. w/ schedule and paper cuts, pin and pennant in 54 ds.(Kacir-MI). via John Carnon THANK YOU FOR YOUR REPORT LAW PLACED TO CONJUNA HANK YOU HOR YOUR REPORT AN PLACED TO CONTRA YOUR BECETION OF AND O NEW TEMAND INTERNATIONAL MEXICO: Radio Educacion 6185 f/d ltr. w/ station photo in 2 mo. for a SP rpt. DEAR and \$1.00. v/s Ing. Gustavo Carreno Lopez, Subdirector Recnico de ON THE XEEP. (Wakisaka-MD). DATE. 16 Marsh 199 THE OSO4. LATC ZINTER NOTE: QSL Column report OX 20 forms are available 73+ from QSL Editor. ×

SIEURA LEONE BROADCASTING SERVICE	NEW BRITAIN: Radio West New
(Department of Broadcasting) Via Klinck (Fredown, Via Klinck (Fredown, Via Klinck (Fredown, Via Klinck (Fredown,	Britain 3235 f/d cd. w/ personal ltr. in 40 ds. for ms. v/s S. Muroga.
The SL B.S. thanks you for your report dates 1 ~ 1+6, 1+64 and has beaure in confirming that the signal you local originated from our Transmitter in Freetown	(Field-PA). <u>NEW ZEALAND: Radio New Zea-</u> <u>land International</u> 17705
10 салинг to your mighten— Farq 3 32 m2(5 i c.c., i c.i.s. 6 in 7 Теальнанон Тинз: Welkoar i 3+5 -2302 Submars i c.c.s 1615	paper pennant QSL in 46 ds. for 3 IRCs. v/s Rudi Hill.(Carson-OK). NIGERIA: Voice of Nigeria
POWER TO ALMAN TO ALMANT TO ALMAN TO ALMANT TA ALMANTA ALMA	7255 f/d "Stadium" cd. in 8 mo. for a taped rpt. and \$1.00. (Huniwell-NJ).f/d
"Murtala Muhammed International Airpo (Carson). <u>FRCN Ibadan</u> 6050 f/d person ds. for \$1.00. v/s Olabisi Kasumu. (F)	ort" cd. in 73 ds. for 4 IRCs. al ltr. w/ prepared cd. in 67 eld-PA).

PAKISTAN: Radio Pakistan 11570.1 and 15270.0 f/d cd. in 3 mo. (Barto-CT).
PAPUA NEW GUINEA: Radio Central 3290 p/d ltr. in 10 wks. for a taped rpt. and ms. v/s Kahi Vila.(Huniwell-NJ). Radio Milne Bay 3365 p/d ltr. in 3 mo. w/ cd. v/s Rodney Warren, Acting Assistant Station Manager.(Barto-CT).

PERU: Radio Atlantida 4789 n/d personal ltr. w/ postcards in 2 mo. for a SP rpt. and \$1.00. v/s Julio Reategui Trigoso, Director-Gerente.(Wak-PHILIPPINES: FEBC 9845 f/d cd. in 3 mo. for 2 IRCs.(Renfrew). isaka-MD). PORTUGAL: Radio Renascenca 9600 p/d "Antenna" cd. in 9 mo. for \$1.00.

<u>RIO MUNI: Radio Africa</u> 9851.7 f/d (Wakisaka). cd. via P.O. Box 851, Malabo in 4 mo.(Barto).

- ROMANIA: Radio Bucharest 11940 two different f/d cds. in 91 ds. w/ schedule.(Levison-PA). SAO TOME E PRINCIPE: Radio Nacional de Sao Tome
- <u>E Principe</u> 4807 f/d PT/FR/Eg form ltr. in 306 ds. for a PT rpt., IRCs and ms. v/s Antonio Sebastiana. This was after several years of f/up rpts.(D'Andelo-PA).
- SCOTLAND: Weekend Music Radio 15043 f/d ltr. in 19 ds. w/ personal note and paper emblems. Info. sheet was also rcvd. v/s Jack Russel. (Hoffman-PA). 15042.3 f/d "Map of Scotland" sheet in 32 ds. for \$1.00. Logo coaster was rcvd.(Zeller).

SOMALIA: Radio Mogadishu 7200 f/d "Library Index" * cd. in 6 mo. for ms. v/s Mohammed Hassan Haad, Reporter. Also rcvd. personal ltr. and sticker. Very happy with this one! (Eckert).

SOLOMON ISLANDS: SIBC 5020 f/d "Logo" cd. in 26 ds. for 3 IRCs.(Kremer). SOUTH AFRICA: Radio RSA 6010 f/d "Foothills/Drakensberg Range" cd. in 52 ds. v/s M. Vorster.(Kacir-MI). 9580 f/d "Capetown" cd. in 45 ds.(Kacir). 9615 f/d "Composite Scenes" cd. in 20 ds. v/s Minnie Visser, Frequency Planning Division.(Kacir). 21590 f/d cd. in 23 ds.(Lane-IL). Radio Pive 11885 f/d "SABC Building" cd. w/ stickers and schedule in 32 ds.(Carson-OK). Radio Orion f/d cd. in 2 mo. for a taped rpt. and \$1.00.(Huniwell-NJ).

SPAIN: Radio Exterior de Espana 9630 and 9680 f/d cds. in 8 mo. for 2 IRCs. Also rcvd. a very long ltr. explaining the delay in answering

QSL VERIFICATION CARD. Mr. John C. ECKERT. PA 19426. 11.5A. Many thanks for your reception report which. we are pleased to verify.	
STATION. RADIO MOGADISHIL	
DATE. MAR. 7 1989 Please refer to note on last page. TIME. 05/2 to 0324. GMT.	
PREQ. 7.200 MHZ.	
SIGNATURE. OFFICIAL SEAL.	



reports and the reorganization of the DX Dept. (Carson-OK). 15110 f/d "1992 Special Events" cd. w/ 1tr. in 6 mo. for 1 IRC. This after a f/up rpt.(Klinck).

SRI LANKA: SLBC 11835 f/d "Studio/Building" cd. in 13 mo. for \$1.00.(Eckert-PA).<u>Deutsche Welle</u> 17810 f/d cd. in 11 wks. from FRG although rpt. was sent to Sri Lanka. (Renfrew-NY).



SWEDEN: Radio Sweden International 9695 f/d "Stockholm" cd. in 15 ds. (Reeves-OR). 17880 same f/d cd. in 1 mo. for 1 IRC. Also rcvd. new schedule and several new types of stickers.(Carson-OK).

SWITZERLAND: Swiss Radio International 9885 f/d "Solothurn" cd. in 13 ds. (Reeves-OR).

<u>TAHITI:</u> <u>RFO</u> 15170 f/d cd. w/ information map in 7 wks. for a FR rpt., tape and 2 IRCs.(Klinck).

<u>TAIWAN: Voice of Pree China</u> 15345 f/d "Visitors to VOFC Building" cd. in 44 ds. for 2 IRCs. Several stickers

and local newspaper were rcvd.(Carson-OK). <u>BSP</u> 15000 f/d "Dr. Sun Yatsen's Memorial Hall" cd. w/ station data sheet in 1 mo.(Barto-CT). <u>TURKEY: Voice of Turkey</u> 9445 f/d "Ceramic Vase" cd. w/ pennant, stickers and schedule in 18 ds. for \$1.00.(Kacir-MI).

UKRAINIAN SSR: Radio Moscow 15475 via Simferopol f/d cd. in 3 mo.(Barto). 17810 and 9825 f/d "Moscow State University" cd. w/ schedule in 3½ mo. (Barto-CT). 11730 f/d cd. in

(Barto-CT). 11/30 f/d cd. in 74 ds.(Lane-IL). 17810 f/d cd. in 2 mo.(Renfrew-NY). 15135 and 15225 via <u>Vinnitsa</u> f/d cd. in 2 mo.(Renfrew-NY). 9755 via Petroplavosk f/d cd. in 2 mo. (Renfrew). 12050 via <u>Khabar-ovsk</u> f/d cd. in 2 mo.(Renfrew) 7115 via <u>Ivano-Prankovsk</u> f/d "Lenin Mausoleum" cd. in 2½ mo. (Barto)....Big Boo Boo..some of the above sites "Pet" and "I-F" are in Asiatic Russia. So sue me....Sam.

ADIO

CHORTIS

本會地址1 哈朗王的中山時115世 電路線場1223461	親愛的朋友: 您的收號報告,行含本台節目。敗迎媚續 來信生去知收號情況。
	黑北江人民废播電台
_	via Rich D'Angelo
Biatian Amerois Mi 125, Zhanganan Ramt Martin City Talaphana Sinili Maard 221461	Baar freeds Their listening report is an accord with the programmy of this scalars. Tair containing latters is tail the scenary combines is been rised. Scalar

USA: KVOH 13695 f/d "Transmitter/Studio Building" cd. w/ sticker in 90 ds. for \$1.00.(Hoffman-PA). WWCR 15690 f/d cd. in 7 wks.(Renfrew-NY). Voice of Pree China 5985 via
WYPR f/d cd. w/ stickers in 26 ds.(Levison-PA). f/d cd. of "Sunset at Hsi-Yu" in 92 ds. w/ sticker and pennant. (Levison-PA). f/d cd. in 29 ds.(Levison). f/d "Global View" cd. in 39 ds.(Levison).

USA (Pirate): WKZP 7415 f/d "Danger High Voltage" cd. in 53 ds. for SASE.(D'Angelo). <u>Radio Morania</u> 7415.3 f/d ltr. on blue Radio Clandestine/Pirate Radio Network stationary in 146 ds. for 3 ms. to the Kingston, NY address.(Zeller-OH). Free Radio One 7415 p/d certificate w/ form ltr. in 47 ds. for SASE (not used) Postmark was Knoxville, TN. Station apologized for taking so long to QSL and gave me a \$3.00 credit voucher towards the purchase of any promotional items they sell such as T-Shirts and various publications. (D'Angelo-PA).p/d QSL Certificate in 72 ds. for ms. v/s Dr. David Rich-

ardson.(Wakisaka-MD). same in 5 wks. for 2 ms.(Renfrew-NY). <u>Radio Free Mass</u>. 7415.3 f/d red and black "Skull and Crossbones" cd. in 15 ds. for 3 ms. to the WV address. v/s H.V. Short...Despite the station name I doubt that Kap has anything to do with this station.(Zeller-OH).....I agree...Sam.

USSR: Radio Moscow 12050 f/d "Moscow State University" cd. in 40 ds. w/ schedule.(Reeves-OR). <u>Radio Magallanes</u> 15475 p/d ltr. in 99 ds. v/s Manuel Ruiz. Also rcvd. old schedule and a tourist booklet in SP.(Weber-OH).

VANUATU: Radio Vanuatu 7260 f/d "Slit Gong (Tam-Tam) cd. in 35 ds. for ms.(Field-PA).

<u>VENEZUELA:</u> <u>Radio Rumbos</u> 4970 f/d cd. in 6 mo. w/ postcard. v/s YVSAUU.(Terrence-NY). <u>Radio Continental</u> 4940 f/d cd. in 5 mo. for a SP rpt. and \$1.00. (Wakisaka-MD).



- VENEZUELA: Radio Nacional de Venezuela 5020 p/d cd. w/ ltr. in 3 years (!) for a SP/EG rpt. and 2 IRCs. Also rcvd. postcards, stickers and station information folder w/ map of Venezuela including Guyana which app ears to be a standard national feeling. (Weber-OH). D'Angelo via
- WEST IRIAN: RRI Palangkaraya 3325 f/d ltr. in 9 wks. for an IN rpt.(Barto-CT).

Radio Rio AmazonaS NOTE: Father John Eckert (St. Eleanor Church, era Cadena de Rad 647 Locust Street, Collegeville, PA 19426-2541) la Omarmia Ecuatória sent along a copy of his QSL ltr. from Radio Mogadisu. I have extracted some information from Macuma El Corazión de la Tung that ltr. which may help others to obtain a QSL. The v/s is Mr. Mohammed Xassan Haad. Addr: 30th del Ecuadoro Jebrero 12 de 1962 Street, Box 6100 Post Hodan, Mogadishu, Somalia. If possible he would like to receive taped rpts. of Macas Palosmeraldo Oruntal the station's signal. Write a nice letter with kind comments about the station. Mohammed's hobby is for-Mayo 1º de 1977 eign correspondence. He is single and 27 years old. As he will send you a station sticker with the QSL, he . 81 gard may appreciate any extra station stickers that you may amaronico have Thanks John. Data such as this is very helpful! Rev. William A. Peake, (First Reformed Church, P.O. Box 414, Buffalo Center, IA 50424) says he would like to start contributing to the QSL Column. Glad to have you with us...Sam. If John and Bill are wondering about the above, I put in both of your addresses in case you wish to write to one another. If I keep this up I may not have too much trouble getting in good with the big guy!...Sam.

Jerry Klinck in West Seneca, NY says he only got two QSLs this month. Jerry states that if you don't send out reports, you're not gonna get any QSLs.... Is that what they call a truism?... Sam. Kris Field in PA says he has quite a few reports out but they are coming back very slowly. Since the arrival of his second child, he

hasn't had too much time to write reports. I bet you get some good DXing in around two in the morning. Hi!...Sam. Also received a very nice letter from John Basta.

Some of our older members may remember John from the NNRC days. If anyone wishes to write to John, his address is: 327-2B Brook Avenue, Bay Shore, NY 11706. John presently use an IC-R71A receiver. Charlie Hoffman in PA sent along a nice note regarding the SWL Winterfest in Willow Grove, PA. I am presently planning to attend as I did last year. I hope to see Vlad and Larry along with the rest of the PA gang...Sam Finally Kirk Allen in Ponca City, OK sends along his greetings to everyone. Kirk has starte to send follow up reports. If its anything like me, you're probably sending out guite a few...Sam.

Sept 1. 1978

I guess that will end another QSL Column. Till next time. Good DXing and QSLing....Sam.

ปก๊ก๊ม NICK TERRENCE 12 SLEANOR PLACE, HUNTINGTON, NOW YORK

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Distributing Editor: Kris W. Field, 431 Babylon Rd., Ambler, PA 19002-2302

FRENDX CONTRIBUTORS LIST -- NOVEMBER 1989 -- DEADLINE 12th of MONTH

The following members submitted loggings this month:

Frank ADEN, Jr., Boise, Idaho Brian ALEXANDER, Mechanicsburg, PA Kevin ATKINS, Pinson, AL Norman BOBB, Minneapolis, MN Bob BROWN, Lansdale, PA John S. CARSON, Jr., Norman, OK Richard D'ANGELO, Wyomissing, PA Harold FRODGE, Midland, MI Joe HOWELL, Escondido, CA Rufus JORDAN, Pittsburgh, PA Jerry KLINCK, West Seneca, NY Fred KOHLBRENNER, Philadelphia, PA John LACKMAN, Lexington, VA Harold LEVISON, Philadelphia, PA Don MOORE, Big Rapids, MI Bill NEWCOMER, Woodlyn, PA Dale PARK, Honolulu, HI Leonard R. PRICE, Annandale, VA Robbie REEVES, Troutdale, OR Bob RYDZEWSKI, Santa Cruz, CA Roland SCHULZE, Stuttgart, W. Germany John TUCHSCHERER, Neenah, WI

HQ180, Uniden CR2021, FRG7

Grundig Satellit 500 NRD525, 80m Vertical, LW Drake SPR4, National NC 183D

R71A + Trap dipole

DX 302, Zenith Transoceanic

NRD 525

R 5000, FRG 7, ICF 7600D

R 5000 & salvaged rod antenna R2000,ATS 803,GE World Monitor

NRD525 Drake R7 & SPR4,Kenwood R-5000 R70, FRG 7700

Good turnout this month ! Thank you one and all for your loggings. I've had the radio on occasionally but I've probably spent more time listening to the GERRY Room Monitor than the NRD.

A couple folks missed the mailing deadline this month so a reminder is in order. I need to receive the loggings by the 12th of the month because I mail them to the editors on the 13th. I hope everyone can appreciate that the editors need time to put their columns together; even this does not give them a lot of time.

It's also a big help if contributors cut their loggings into individual strips. Some of you even go one step further and sort them in frequency order, or even by log report section. I do appreciate it, Thanks ! Jerry Klinck mentions that he became a grandfather. Congrats to you and your family, Jerry !!

No further news to report from here so I hope everyone has a good month and good DX !!

Until next month,

73, Kris

Don't forget the ANARC Net on Sunday mornings.



2375

2694.9t

be a spur? -ed.

CUBA R. Havana 0323-0330 EG, Tlk and world nx. Fair. (Newcomer-PA 10/7) Could this

Editor: Bob Brown, P.O. Box 591, Colmar, PA 18915

- PORTUGUESE TIMOR (TIMUR, INDONESIA) RPDK Ende 1128-1152 fade. Indo ballads w/ C&W flavor, anmnts w/echo bet. songs by YL/OM. Kept mentioning "warta berita" but none had. Fair. (Atkins-AL 10/11) 2904.8 PORTUGUESE TIMOR (TIMUR, INDONESIA) RPDT2 Ngada 1125-1132 lagu pops, Icl ID 1129 then short gamelan theme & OM tlk. Fair, slightly better than presumed Manggarai on 2962.7 (Atkins-AL 10/8) USA WABB Mobile Ala. 2 x 1480 harmonic noted many eves. w/talknet pgm. Poor-Fair. 2960 (Moore-MI) PORTUGUESE TIMOR (TIMUR, INDONESIA) RPDT2 Manggarai 1212-1235 Mostly yak by 2962.8t YL ancr w/ ments of Bali. Brief orch interlude then tlk by OM but almost faded by then. Nothing close to an ID. Hrd both dates w/ indetical pgm'g. (Allen-OK 10/5, 7) 3214.9 CELEBES (SULAWESI, INDONESIA) RRI Manado 1147-1200 IN, "Satu Nusa, Satu Bangsa", SCI, ID by OM. Poor (Rydzewski-CA 10/8) ECUADOR HCJB 0918-0930 Quechua tlk, rel. mx, ID Fair (Bobb-MN 10/1) 3220 3220 NEW CUINEA TERRITORY (PAPUA NEW CUINEA) R. Morobe 1001-1031 Pidgin, OM w/ nx that // 3290,3235,3385 till 1018 then seperate pgm w/YL/OM tlk. Mix w/HCJB Poor-Fair (Moore-MI 10/9) PORTUGUESE TIMOR (TIMUR, INDONESIA) RRI Mataram 1152-1200 YL AR-style vcls, 3222.9 OM ID & SCI @ 1159 Good (Atkins-AL 10/8) 3241.4 MOLUCCA IS. (MALUKU, INDONESIA) RRI Ambon 1155-1201 nice Pac. isle mx, YL Icl ID @ 1158, into SCI, Fair-Good (Atkins-AL 10/9) 3249.6 HONDURAS R. Luz y Vida 0345 EG, w/"Unshackled". Good (Rydzewski-CA 10/1) 3249.8 BORNEO (KALIMANTAN, INDONESIA) RRI Banjarmasin 1130-1200 Poss. Icl nx to 1138, mellow instr mx, YL Icl ID @ 1148, then AR-style vcls to 1159 generic ID/SCI. Fair (Atkins-AL 10/13)CELEBES (SULAWESI, INDONESIA) RRI Gorontalo 1227-1231* Pop vcls. OM ancr w/ 3264.65a mention of Gorontalo then s/off leaving Bengkulu in the clear. (Allen-OK 10/6) 3264.9 SUMATARA (SUMATERA, INDONESIA) RRI Bengkulu 1231-1303 YL ancr w/lcl ID during yak @ 1233. Interesting exotic vcls w/flutes. Carried Jakarta economic nx @ 1300 but almost faded by then. (Allen-OK 10/6) ECUADOR La Voz del Napo 0240-0301* SP EZL LAm vcls w/OM anncr, ID, s/off annmts 3280 @ 0300. No NA. SIO353 (D'Angelo-PA 9/28) (Tuchscherer-WI 9/21) 3289.8 ECUADOR R. Centro 0919-0940 SP, Andean mx w/anmts between each selection. Several IDs. Strong but QRN. Sig equal to HCJB on 3220. (Alexander-PA 10/1) PERU R. Tayabamba 0931-1004 SP, Andean mx w/flutes, shouting, tlk & poss. ID. (Bobb-3290t MN 10/1) NAMIBIA R. SWA. 0423 EG, OM w/items of Icl Interest interspersed w/tribal mx, plug for 3290 tourism, nx @ 0430. (Howell-CA 9/10) 3290 PAPUA TERRITORY (PAPUA NEW GUINEA) R. Central 1001-1031 Pidgin, OM w/nx that // 3290,3235,3385 till 1018 then seperate pgm w/YL/OM anncr, bits of instr "A Time For Us". Poor-Fair. (Moore-MI 10/9) 3290 PERU R. Tayabamba 0920-1009 SP, OA vcls to 0929 ID, lng tlk pgm, mx bridge, anmnts, wrld nx @ 1000. SIO343 (D'Angelo-PA 9/9) GUATEMALA TGNA 0300-0330 EG, ID, rel. mx, sermon. Fair (Bobb-MN 10/1) 3300 3316 SIERRA LEONE SLBS 2300-2321* EG, Wk in static w/drum fanfare @ 2300. Tlk by OM, chants @ 2315. Short instr NA @ 2321. (Alexander-PA 9/15) 3320 SOUTH AFRICA R. Orion 0408 AK, classical mx, OM tlk - sermon?? (Howell-CA 9/10) 3325 BOUGAINVILLE ISL. (PAPUA NEW GUINEA) R. North Solomons 1047-1107 Pidgin, mix of vcls (some EG), tlk by OM to 1100 ID, poss. nx by YL. SIO252 (D'Angelo-PA 9/9) PAPUA TERRITORY (PAPUA NEW GUINEA) R. Milne Bay 1028-1050 fade. Pidgin. Mix of 3365 tlk and Icl vcls. ID @ 1030 by OM w/piano mx in backgrnd. SIO252 (D'Angelo-PA 9/9)
- NEW BRITAIN (PAPUA NEW GUINEA) R. East New Britain 1022-1108 Pidgin, Clear w/brief 3385 tlks, ID @ 1030, western pop vlcs, this one first audible frm PNG and stays the longest. SIO353 (D'Angelo-PA 9/9)

PERU R. Oyon 1015-1045 SP, tlk, ID, mstly continuous OA mx after 1020. Poor in QRN. (Alexander-PA 10/1) 3579.8t SUMATARA (SUMATERA, INDONESIA) RPDT2 Asahan 1144-1200 fade, non-stop lagu pops to 1158, then OM tlk w/poss. "Pemerintah" @ top of hr. Fair-Poor (Atkins-AL 10/15) 3774.9 PORTUGUESE FIMOR (TIMUR, INDONESIA) RPDT2 Sumbawa 1134-1142 Lcl nx, patriotic sounding choral mx @ 1139 foll. by OM w/lcl ID, Fair (Atkins-AL 10/8) 3904.8 SUMATARA (SUMATERA, INDONESIA) RRI Banda Aceh 1655-1700 Basha Indo, ID, SCI, warta Berita, today stronger as India above at same time! (Schulze-FRG 9/8) 4002.7 SUMATARA (SUMATERA, INDONESIA) RRI Padang 2157-2219 fade. SCI, ID, YL w/nx till 2211 then mx, chants. No ute tonight, best yet this season at 1cl sunset. Also audio on 3232, 4927. (Brown-PA 10/22) 4238 PERU R. Inca del Peru 0930-0941 SP, Very good w/ Lam mx & bulletins. (Tuchscherer-WI 9/28) 4679.6 ECUADOR R. Nacional Espejo 0224-0251 SP, Radio Novella w/ several IDs. (Tuchscherer-WI 9/24) 4752.2 PERU R. Huanta Dos Mil 1008-1020 SP, t-in to NA. Opening anmnts @ 1009 w/IDs. Into huaynos @ 1010. Fair. (Alexander-PA 10/1) 4753 CELEBES (SULAWESI, INDONESIA) RRI Ujung Padang 1415 IN, SE Asian pop mx, OM ancr, SCI, fair for abt hr past Icl sunrise. (Howell-CA 9/10) 4755p BRAZIL R. Educacao Rural 0114-0124 Long YL cmty, ballads, mention of Campo Grande. Fair. (Moore-MI 9/26) 4760<u>n</u> ANDAMAN AND NICOBAR ISL. AIR Port Blair 1540-1649* Venecular political tiks on Sri Lanka govt., nice IcI mx instr. EG IDs and ask for comments and reports. First log for me - my 221 heard NASWA country!! (Schulze-FRG 10/1) ed. - Very nice catch Rowland! 4760 LIBERIA ELWA 0606 EG, Rel. pgm, mx, ID and "Good morning Liberia" @ 0616. (Kohlbrenner-PA 9/12) 4760 SWAZILAND TWR 1815-1829* PT, ID, rel pgm, prayer tlk, 1xIS s/off. (Schulze-FRG 9/26) 4765 USSR R. Moscow 0842 RS, ethnic mx, very enjoyable. SIO434 (Levinson-PA) 4770 NIGERIA R. Nigeria-Kaduna 2220 EG, Network nx & commentary on housing followed by ID @ 22:30 then inot mx variety pgm. (Klinck-NY 10/7) 4775 UNID - BRAZIL 2337-0007* OM in PT, ads, mix of lively mx. Hrd several days, Poor (Moore-MI 10/2)) 4785 BRAZIL R. Caiair 0052-0107 OM anmts, ads, several IDs mentioning "o capital do estado do Rondonia". Ute QRM, Fair. (Moore-MI 9/16) 4790 PERU R. Atlantida 0915-0925 SP, IDs, tlk, crowing and mx. Fair. (Bobb-MN 9/18) 1012 (Tuchscherer-WI 9/28) 4795 BRAZIL R. Aquidauana 0035-0104 Folk mx, OM ID w/freq. @ 0102 Fair (Moore-MI 10/3) 4800 ECUADOR R. Popular 0453-0516 SP, LAm vcls w/OM anner w/IDs and TCs between mx selections. SIO343 (D'Angelo-PA 10/1) 4800 GUATEMALA R. Buenas Nuevas 0215 SP, long monotonous sermon, Icl mx & full ID @ 0230. (Howell-CA 9/25) (Jordan-PA 10/4) 0055-0105 (Bobb-MN 9/25) 4805 BRAZIL R. Difusora do Amazonas 0225-0317* PT, Br pops, ID, tlk, anmts, hyper DJ. Abruptly off @ 0317. (Alexander-PA 9/17) (D'Angelo-PA 9/17) 4820 HONDURAS LV Evangelica 1115-1134 SP, Rel mx, tlk, mention of Honduras & Tegucigalpa. Fair (Bobb-MN 9/26) PERU R. Atahualpa 0745-0825 SP, LA pops. None of the traditional OA mx. Little tlk excpt 4820 for IDs. VvGd - booming in. (Alexander-PA 10/1) 4820.8 PERU R. Atahualpa 0957 Huayno, ID, "Radio Atahualpa, anticipando el siglo 21" Fair (Moore-MI 10/4) BRAZIL R. Educadora 0854-0915 PT, quiet mx, ID, rel. tlk, BR mx, rooster crows/tlk. Poor-4825 Fair (Bobb-MN 9/28) 4830 VENEZUELA R. Tachira 1020-1035 SP, LAm mx, tlk & IDs. Fair-Good (Bobb-MN 9/24) 4835 GUATEMALA R. Tezulutian 0053-0108 Guatemalan tik & mx, mni IDs. Fair. (Bobb-MN 9/ 30) 0247 (Rydzewski-CA 8/23) 4835 IAVA (INDONESIA) RRI Ambon 1433 Indo, YL w/nx, many anmnts "Nasional" & "Jakarta". (Howell-CA 9/10) 4835 MALL Rdiff TV Malienne 0620 FR/AR? Af vocals, tlk by OM (in lang?), chanting, mentions of Bamako. (Kohlbrenner-PA 9/12) 4840 VENEZUELA R. Valera 0859-0911 SP, NA in progress, ID, regional anthem, IDS, LAm mx & tlk. Poor (Bobb-MN 9/25)

GHANA Ghana BC. 2150- EG, tlk by OM, ment of Ghana economy, nx @ 2200. Poor

3366

3450.2

(Kohlbrenner-PA 10/8)

4851 ECUADOR R. Luz y Vida 0401-0417* SP, LAm vcls hosted by YL, brief anmnts, ID, S/off anmnts w/orchestral NA. SIO353 (D'Angelo-PA 9/30)

4856 <u>t</u>	SUMATRA (SUMATERA-INDONESIA) RRI Palembang 1415 IN, SE Asian chants/prayers; OM tlk, bad audio hum. (Howell-CA 9/12)
4860.3	ANGOLA EP da Lunda-Sul 1905-1935 PT, ID, notices, mx. (Schulze-FRG 9/18)
4865	COLOMBIA La Voz de Cinaruco 0400 SP, OM w/cumbias & annc'd Cuban mx, IDs/Icl TCs
4005	SIO343 (Frodge-MI 9/30) ed - I'll bite Hal, whats a "cumbias"?
4870	BENIN ORTB Cotonou 2250 FR, Icl mx pgm w/ID @ 2259 followed by nx. (Klinck-NY 10/7)
4870	ECUADOR R. Rio Amazonas 0048-0105 SP, OM w/rapid tlk, ID & anmnts of Ecuador, Icl
	instr mx/ballads. Poor (Jordan-PA 9/27)
4874.60	NETH, NEW GUINEA (IRIAN JAYA, INDONESIA) RRI Sorong 1122-1150 OM anncr w/NAm
-	pops - "La Bamba", poss. ID @ 1133 w/chimes. Cruddy audio. Poor-Fair (Brown-PA 10/13)
4875 <u>p</u>	BRAZIL R. Nac. Boa Vista 0350-0400* PT OM tlk, no discernable ID even at 0400 s/off.
	(Howell-CA 9/24) (D'Angelo-PA 9/16) 0306 (Tuchscherer-WI 10/1)
4880	SOUTH AFRICA SABC 0403 EG, OM DJ w/pop mx. SIO333 (Frodge-MI 9/2)
4881.7	PERU R. Nuevo Mundo 0953-1005 SP, LA pops/OA mx. Anmts, ID @ 0959. Good.
	(Alexander-PA 10/1) (Tuchscherer-WI 9/28)
4885	BRAZIL R. Clube do Para 0826-0835 PT mx, tlk, ID. Poor, noisy. (Bobb-MN 9/23)
4890	GABON R. France Intl. 0404-0432 FR, YL w/nx, FR songs and more nx. ID by YL @ 0421.
	(Tuchscherer-WI 9/27)

This is a very nice representation of stations that can be heard in this part of the radio spectrum. There are some toughies here as well as some easier catches, so there should be something for everyones taste. The best catch this month is Roland Schulze's report of Andaman And Nicobar Isl. I think that is going to be a real tough one for us here in NAm.

Kris Field has made me aware of a technique he uses that may be of some interest to other DX'ers. He has created a target list that he keeps next to his radio which he updates regularly with info that he gets from the various DX publications and DX shows. Kris says that he picked up this tip from Rich D'Angelo and it looks like this:

0100	1200	
0200	1300	

Picture an 8 1/2 by 11 piece of paper with the lines and times pre-printed as shown here. Kris runs off a bunch on the copier and fills in freq. and station info under the appropriate time. Index cards could be used as well. Thanks Kris for the tipt If you have a DX'ing tip, please send it along. I'll be happy to print it up here as space permits.

Please take a moment and open last months *FRENDX* to Log Report A and compare it to this months. I am experimenting with a different type face in hopes to make the logs a bit easier to read, especially for those of you who may have less than perfect eyesight, Last months type was Times Roman 12 point and this month I am using Optima 11 point. Smaller, but perhaps clearer. A comment that appeared in the surveys I have received indicate that many of you have trouble reading the small print. One person actually thought that the print was too large! Sorry, but for those that have trouble seeing, I am going to try to stick to as large as practical. Let me know which type face you prefer.

Speaking of the surveys, the response has been very good. I haven't counted, but I believe we have well over 200 returned as of 10/27. I am working on organizing the inputs so that we can make a meaningful presentation to the membership. Some of you indicated that you did not receive your *FRENDX* till mid Oct. Publisher Bill Oliver works very hard to get the journal in the mails during the first week of the month. He never misses a beat on this so if yours came late, the US Mail missed the beat.

I hope you and yours have a nice Thanksgiving. Till next month, good DX and 73 -- Bob KW3F



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*4900.6	CELEBES, RRI Gorontalo, 10/7, 1253-1300, M w/"Berita
	Keluarga," poss. family planning pgm, clear lcl ID 1258, SCI. Don't confuse w/Surakarta here. (Allen-OK)
4915	BRAZIL, RN Macapa, 9/30, 0047-0109 w/rel pgm to 0101 mx, 0106 ID. (Tuchscherer-WI)
4915	GHANA, GBC-1, 10/9, 2230 in EG w/nx, mx, ID as Radio One. (Klinck-NY) 9/16, 2242 w/vcls, ID 2245, nx, rel pgm,
4930	SIO=222. (Frodge-MI) TURKMEN SSR, Ashkhabad, 9/16, 0155-0201 in RS w/EZL mx, Mayak IS 0159, time pips, tlk by W. Site presumed. (Alexander-PA)
4934	KENYA, Vo Kenya, 10/7, 0257 in EG w/C&W mx, NA, "You are tuned to the Voice of Kenya," FC. (Paszkiewicz-WI)
4940	UKRAINE, Kiev, $9/17$, $\circ0200-0400$ in RS w/clx mx, lite instls, IS 0214, 0244, etc. Weak in QRN //6020 at 0340. (Alexander-PA)
4940	VENEZUELA, R. Continental, 9/18, 0927-0945 w/lDs, mx, tlk by M&W. (Bobb-MN)
4955	BRAZIL, R. Marajoara, 9/17, 0130-0200 w/lively pop vcls, sev. IDs, ad strings, QRN & CW QRM. (Jordan-PA) 9/17, 0319-0330* w/sermon-like tlk, ID 0327, sev. jingles.
	vcls cut in mid-song. (D'Angélo-PA) 9/24, 0330 w/ID, sermon w/organ mx, church bells. (Howell-CA) 9/30, 0855-0032 tent rol nom my Cl Obm (Bebb ND)
4955	0855-0933 tent., rel pgm, mx, CW QRM. (Bobb-MN) BRAZIL, unid., 10/3, 0105-0110 mixing w/Marajoara. Hrd sev. different days. (Moore-MI)
4970 <u>p</u>	PERU, R. Imagen, 10/8, 0655-0701 w/tropical mx, OM tlk,
4975	ment. Tarapoto, poor. (Moore-MI) COLOMBIA, Ondas del Orteguaza, 10/5, 1035-1048+ ID w/TC 1037, "en la . internacional del Orteguaza en 22 minutos
4985	para la 6." 1041 wiped out by ute. Seems irregular. (Allen) BRAZIL, R. Brasil Central, 9/23, 0155 w/long ballad, full ID 0202, decent sig. (Howell-CA)
4990.8	PERU, R. Ancash, 10/1, 0550-0602 w/OA mx, OM DJ, s/off w/NA. (Alexander-PA) 9/22, 0930-0945 w/tlk, mx, ID, poor & noisy. (Bobb-MN)
5011.6	ECUADOR, Escuelas Radiofonicas Populares, 9/27, 0910-1050 in SP/Quechua, tlk, Andean mx, drama, ID. (Bobb-PN) 9/23, 1022-1112 w/"Radiofonica" IDs. ment. "desde Rio-
	bamba, emisora de la patria radiofonica." Rustic vcls, improved sig. (Allen-OK) 10/14, 1053-1115 w/Andean
5012.1	mx, ment. Riobamba, IDs, ballads. (Paszkiewicz-WI) <u>PERU</u> , R. Eco, 9/20, 1022-1108 reactivated w/oldie LA mx, Coca-Cola ads, ID 1053, 0A NA 1056, echo IDs. Not hrd
5019.9	recentlyinactive again? (Allen-OK) COLOMBIA, Ecos del Atrato, 10/4, 1018-1023 w/IDs, TCs, pgm "La Hora Ranchera." Poor. (Moore-MI)
5025	CUBA, R. Rebelde, 10/9, 0120 w/ID, mx, sev. ment. Havana. Fair. (Kohlbrenner-PA)
5030.2	COJTA RICA, R. Impacto, 9/24, 0308-0315 w/IDs, mx, tlk, good sig. (Bobb-NN)
5034	CENTRAL AFRICAN REFUBLIC, RTV Centafricaine, 10/9, 2224 w/FR anmts, 1cl mx. (Klinck-NY)
5044.6 <u>t</u>	IRIAN JAYA, RRI Jayapura, 10/7, 1300-1315, Jakarta nx, W tlk 1313 but couldn't get 1cl ID. Fair but undermod. (Allen)

5045	COSTA RICA, R. Impacto, 10/15, 0233 w/mx, ID, more mx,
5050	<u>COSTA RICA</u> , R. Impacto, 10/15, 0233 w/mx, ID, more mx, good sig. (Humenyk-ON) Tnx for contributing-sp. <u>ECUADOR</u> , R. Jesus del Gran Poder, 9/29, 0925-0955 in SP/ <u>Cuechua</u> varied mx, tlk. The fair & suddenly poor. (Bobb)
5055	Quechua, varied mx, tlk, IDs, fair & suddenly poor. (Bobb) <u>SWAZILAND</u> , TWR, 9/12, 0325 in EG w/rel pgm, fair sig but lots of noise. (Price-VA) <u>FRENCH GUIANA</u> , RFO Cayenne, 9/23, 0845-0940 w/rhythmic mx,
5055.9 <u>t</u>	FRENCH GUIANA, RFO Cayenne, 9/23, 0845-0940 w/rhythmic mx, tlk & nx, poor-fair. (Bobb-MN)
5068	<u>VENEZUELA</u> , LV de las Canas, 9/9, 2320-2330 w/ID, slow LA mx, can anyone help with exact location of this station?
5005	Thanks! (Schulze-FRG)
5905	ASIATIC RSFSR, R. Moscow, 9/22, 1023 in JP w/listing new winter sked in JP //5920, 9865, 9895, 10344. Ute QRM from 5907. page. (Park-HI)
5929.2	Notaria and the second
5950	USA, VOFC via WYFR, 9/10, 0700 in EG w/nx, wx, cmtry,
5955	COLOMBIA, Ondas del Meta, 9/28, 0927-0957 w/LA mx, tlk.
	many IDs. F-G. (Bobb-MN)
5960	CANADA, RCI, 9/23-24, 2358-0029 in EG w/ID, nx, wx rpt, sports, SWL Digest w/amateur rpt. F-G. (Bobb-MN)
5965	EAST GERMANY, R. Berlin Int'l, 10/10, 0630-0640 in EG w/ DX info. (Newcomer-PA)
5975	COLOMBIA, R. Macarena, 9/23, 1005-1025 w/mx, good sig. (Newcomer-PA)
5975	SINGAPORE, BBC Relay, 9/20, 1601 in EG w/world nx //9740 (u/R. Korea). (Park-HI)
5980	<u>BRAZIL</u> , R. Guaruja, 10/13, 2229-2305 w/anmts, ID, "A Voz do Brasil" pgm //4985, ment. R. Nacional, jingles, drama.
	(Paszkiewicz-wi)
5980	YUGOSLAVIA, R. Yugoslavia, 10/7, 0130-0142* in EG w/mx, "Ham Radio Corner" (Kohlbrenner-PA)
6015	CANADA, R. Austria via HCI, 10/9, 0535 in EG w/"Rpt from Austria," "Postbox 700." (Park-HI) Dale points out that this is from the Canadian relay, not direct from Austria.
6015	Tnx Dalesp. UNID, weak bubble jammer noted but no audio. (Frodge-MI,
6020	2310 on 9/16) BRAZIL, R. Gaucha, $10/14$, $2250-2300 w/wels ment Porto$
6020	Alegre, ID, FC. //11915. (Paszkiewicz-WI) NETHERLANDS R. Nederland 10/6 0050 in FG w/Media Network
, 6035	SIO=434. (Carson-OK) LIREPIA VOA Balay 9/2 Outum in FC w/VOA Enidow Monning
	SIO=434. (Carson-OK) LIBERIA, VOA Belay, 9/7, 0444 in EG w/VOA Friday Morning, SIO=222. (Carson-OK) NICARAGUA. IN de Nicaragua 9/16 0145-0158 w/IA wy clr
6100	
6105	ID, u/Deutsche Welle. (Schulze-FRG) BRAZIL, R. Cancao Nova, 9/16, 2350 w/pops, anmts, //4825, poor. Also Brazilians on 6000, 6010, 6020, 6030, 6060, 6080, 6090, 6135, 6180 same time. (Moore-MI)
6135	CHILÉ, R. Univ. de Concepcion, 9/15, 1047-1105 w/fast-paced nx from R. Mineria, R. Univ. ID before top of hour, then back to Mineria pgm. (Allen-OK)
6151.4	COSTA RICA. R. Impacto 9/24 0322-0329 w/my ID (Bobb-MM)
6160	COSTA RICA, R. Impacto, 9/24, 0322-0329 w/mx, ID. (Bobb-NN) COSTA RICA, R. Impacto, 9/9, 0450-0515 last week on 5030 & 6150 but tonite 6160 and 5044 w/tlk, ads, jingles, IDs.
6160	(Alexander-PA) <u>NEMFOUNDLAND</u> , CKZN, 9/30, *0825-0840 w/NA, ID, FC, wx,
6165	NEWFOUNDLAND, CKZN, 9/30, *0825-0840 w/NA, ID, FC, wx, instis, 1cl nx. (Kohlbrenner-PA) <u>BONAIRE</u> , R. Nederland, 9/22, 0027-0123 in EG w/FC, nx, cmtry, Media Network, good. (Bobb-MN) <u>CANADA</u> , BBC Relay, 9/16, 2328 w/pop mx, bubble jammer noted.
C 1 0 F	cmtry, Media Network, good. (Bobb-MN)
6175	
6180	BRAZII, RN, 9/19, 2245 w/tlk, short mx bridges, ID. (Bobb) Norm, this is prob. R. Araguaia relaying RN pgm. (sp)
6185 6185	MEXICO, R. Educacion, 9/24, 1040 w/mx, tlk abt Mexico (Bobb)



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6215	CLAND R. Quince de Septiembre 0052 SP OM/cmtry w/remotes to
0210	Nicaragua patriotic promos; (FRODGE-MI 8/29)
6240v	PIRATE Vof Tomarrow 0107-0200* EG wolf-call ID's, mx; GAM R.
	Vanceremos; (KOHLBRENNER-PA 0/24)/ 0505-0536+ tlk, ID, OR sddr (ALEXANDER-PA0/24)
6240v	SCOTLAND Weekend Music R. 0032-0039: EG mx, ment of Euro-
6455	pirates, ID; p. (KOHLBRENNER-PA 10/7) CLAND R.Farabundo Marti 0237 SP YL w/cmtry, voc-mx; (FRODGE)
6459.8	CLAND R. Venceremos 0153 SP LA mx, ID, tlk by OH, YL (Alexander
6470	CLAND R. Venceremos 0317 SP OH w/cmtry, mx, off & on; (FRODGE
6690	UNID SP 0000-0300 appears to be a com. stn.relay, noted OC lately; (FRODGE-MI 8/1)
6712.4	CLAND R. Farabunndo Marti 2350-2400 SP LA mx, ID; (ALEXANDER)
6760	CLAND. UNID 0041 SP YL/OM nx w/detelines, ment Bogote, mx, ment Rep. Dominicana; FRODGE-MI 8/1)
6760	CLAND R.Patria Libre 0034-0105 SP tlk, bugle fanfares, lcl mx
0.00	ID; Colombian NA, abrupt off; (ALEXANDER-PA 9/17)
6935	CHINA.PR RB 2217 SP Y1/tlk, re Colombia, CH mx, cmtry; (FRODGE-
81.0F	MI 8/14)
7105	ASCENSION IS, BBC 0435-0445 FR tlk, ID; (DILLON-GRE 6/6)
7135	ERANCE RF1 0330-0345 EG wid & sport nx; (TUCHSCHERER-WI 8/24)
7140	CYPRUS BBC 1611 AR IS, ID 'Hune London' encats, pres nx, QRM USSR; (PARK-HI 8/29)
7170	NEW CALEDONIA RFO de Noumea 1844 FR mx, om tlk, mx; (PARK-HI)
7200	UK VOA WOOF 0448 EG tik, ID, rpt; //7170,15205. (PARK-HI 9/5)
7200	SWAZILAND TWR 0437 EG OM w/Midwest accent hosting 'Day-
	break', sked offering, gospel mx; QRM VOA. (PARK-HI 8/21)
7208v	IVORY COAST RTVI 2145-0002 FR ID, press, mx, NA, choir (SCHULZE) /2210-0003 AF pops, tlk, NA. //4940; hrd 9/3 @0615.(ALEXANDER)
7215	IVORY COASTRIVI 0620-0640 FR U.S. ontry mx, tlk; (ALEXANDER) -
7225	SRI LANKA DW 1629 EG nx, ID, [white noise jam] (PARK-HI &/16) 1620-1650 EG ID, rpt, IS, s/off; (SCHULZE-FRG 9/16)
7255	NIGERIA Von 0522-0533 EG 'Morning Flight' ax px, ID, freq,
	West AF syc noted, drum IS, ID, nx; (KOHLBRENNER-PA 9/4)/ also rptd by CARSON-OK, NEWCOMER-PA @ same time, LACKMAN-VA 2159
7295	UK RCI Daventry 0523 EG/FR fin. nx, wx, ID; //11775; (PARK)
7345	CZECHOSLOVAKIA RP 0328 EG/GM tik; SIO-333 (CARSON-OK 9/20)
/345	/ 0124-0135 nx; f. (NEWCOMER-PA 8/17)
7355	USA-PIRATE R.Clandestine 0340-0400 EG comedy, 444; (D'Angelo)
	USA-PIRATE Hope R. 2230-0000 EG Bill Cosby Comedyskits, WRM
7358	WRNO; g. no addr. (DALTON-VA 10/7)
7375usb	COSTA RICA R. for Peace Intl. 0110,0427 EG var.of pxs, comms, 333-544; (CARSON-OK 9/18, 10/7, 10/8) / (ALEXANDER-PA 9/3)
7375	CHINA, PR RB 1622 RS OM w/ID, cmtry. 1cl QRM; (PARK-HI 8/18)
7410v	USA-PIRATE CHGO 0536 EG soundtrack played w/freq low voice &
	Blow ID's 'C-H-G-O; B/off G0600; 222 (CARSON-OK 9/10/89) /
	0340-0407 EG voc axw/ancr repeating 'Poltergist' during song.
	more mx, ID repeated; 343 (D'Angelo-PA 9/9)
7415	USA-PIRATE Unid 2338-0003* EG rock mx w/OM ancr. pos. ph # SIO-454. (D'ANGELO-PA 10/1)
7415	USA United World R. 0317 EG OM w/60's ballads; (FRODGE-MI 9/2
7415v	USA-PIRATE R.Zodiac 0500-0605 EG tlk show on alien life visit-
	ing earth. Wellsville, NY addr. prerecorded IDs & QSL info. S/
	off and 'Good bys to FCC; (ADEN-ID 9/17)

7415	PIRATE Free R. One 2235-2250 EG redio dreme, ID, OR addr., (ALEXANDER-PA 9/4) / 0056)FRODGE-MI 8/24) / 2210-2224 ID,addr
	px '1984 w/David Niven', 252; (D'ANGELO-PA 9/4)
7415	USA-PIRATE Pirate R. Nat. 0300 EG mx, ad, OH dj. (PRICE-VA)
7415	USA-PIRATE R. Morenie 0148 EG 'This is Morenie celling'end off (FRODGE-MI 8/1)
7415	USA-PIRATE RFH 0009-0054* EG mx, phony ada, IDs, addr; p. (KOHLBRENNER-PA 9/3)
7415	PIRATE R. Garabonza 0224 EG rig bost of Br. Irvin (no relation)
	-e ficticious TV preacher, pres. ID 'somewhere North American
	Coast' nothing more; (FIELD-MI 7/30)
7475	TUNISIA RTVT 0256-0314 AR s/on, OH w/freq list, ID, AN chants // 12005, 15450; (TUCHSCHERER-WI 9/13)
7520	
1020	USA WWCR, Nashville, TN 0240 EG 'Point of View' px, rlg tik,
0001	'USA R. Net', (FRODGE-MI 8/9) / (PRICE-VA 8/17)
9334ssb	ENGLAND AFRTS 0030 EG baseball game; f. (PRICE-VA 7/31)
9345	KOREA, DPR RP 1802 SP NA, OM, YL w/ID, sked, nx; 9325/KR. (PARK)
9420	GREECE Vog 0135 EG/GK nx, mx; (KELLY 9/5) /(NEWCOMER-PA 8/17)
9465	USA WMLK 0520 EG rlg px; f. (PRICE-VA 8/23)
8515	BRAZIL R. Novas de Paz 0125 PT vocals, ment Curitiba Parana,
	ID, addr; (PASZKIEWICZ-WI 8/10)/ 0005 rlg px, (FIELD-MI 8/18)
C.E. 1.E	LESOTHO BBC 1107-1115 EG nx, omtry: (KLINCK-NY 6/10)
9545	<u>SQLOHON IS</u> SIBC 0712-0747* EG mx-US pops, nx, ad 'Magic two minute noodles, Pacific nx, s/off; (KREMER-IN 8/16)
9555	MALTA DW relay #0100 EG IS, site ID, nx; (HOWELL-CA 8/14)
9560	EINLAND RF 0635 EG nx, ltr re. Bob Horvitz//11755; (PARK-HI
	tik, ID, IS in FN. s/off, addr given as WRTH; (HYSON-NC 9/2)
9580	TOPAN DI 1002100 DO DA ALTE VELLES WATA; (AISUN-N. 972)
	JORDAN RJ 1803-1830 EG nx, jazz w/Peter Hazard, ID; (DILLON)
9565	MALTA DW #0058-0150# EG nx, site ID, s/off; (KREMER-IN 8/13)
9565	BRAELL R. Universo G200 PT tlk, ID; (PASZKIEWICZ-WI 8/16)
9580	OMAN BBCWS tent 0302 EG nx, // 9600; QRM RN. (PARK-HI 9/1)
9590	NETHERLANDS RN 0405 EG anomt that 11720 becomes operational
	on 9/24/89 at this time slot; (KELLY 9/3)
8595	JAPAN RCI via NSB 0831 JP Y1,0M hosting 'Canada This Week' w/
	ment. item from Ian MacFarland. QRM; (PARK-HI 8/26)
9595	CZECHOSLOVAKIA RP 0644-0701 EG orch mx, ID; (HYSON-NC 9/2)
9600	DOPTICAL ED 000-0015 FO TE DICH #4, 1D; (HISUN-NC 9/2)
9605	PORTUGAL RP 0230-0245 EG ID, nx, cmtry Hailbag'(KOHLBRENNER)
0000	SINGAPORE BBC 1658 EG/HD end of EG svc, EG by R. w/addr. site ID/HD, nx; (PARK-HI 8/28)
9630	SPAIN REE 0546-0555* EG lang lesson, ID, mx int. nx (PARK)
9645	SRI LANKA VOA 1750-1801 EG mx, s/off, IS. (PARK-HI 8/22)
9655	THAILAND RT 1128 EG IS, ON wID; 242. (LACKMAN-VA 8/28) / nx,
	re stocks by YL, ID by ON; f. (TARP-CA 10/3)
9695	
9700	SWEDEN RSI 0325 EG 'SCDX', ID//11705[flutter/polar path](PARK
8700	CLAND Voz de Resistance do Galo Negra +0455 PT guitar, cock crow, OM/ID, AFR mx, tlk; (HOWELL-CA 8/24)
9735	PARAGUAY R.Nac. 0020-0100 SP phone rpt from R. Charitas,
	fusbol scores, IDs: (KREMER-IN 8/28) / soccer, ID, ads (HOWELL)
9750	KOREA, REP RK 1359-1430 EG nx YL w/cmtry; p. (KLINK-NY 8/13)
9760	AUSTRALIA ("02") RA Shep 1045 JP/EG OM w/'DX Time', ID,
0205	nx, //11800; g. (PARK-HI 9/3)
9765	CHINA_REP VOFC 1133-1145 CH YL ancr; f. (KLINK-NY 8/10)
9765	MALTA V of the Med. 0607 EG tlk, mx; f. (KOHLBRENNER-PA 9/4)
9850	USA WCSN 0155 EG rlg px; R.Cairo comes in at s/on (KELLY)
9875	AUSTRIA R. Austrie 0131 EG nx on floods in Austria; (HALL-IN)
9925	BELGIUM BRT 2335 EG press rev; g. (KOHLBRENNER-PA 9/5)
3950	INDIA AIR 1532-1547 FC OFFIC A PLOT TO THE AT
4000	INDIA AIR 1532-1547 EG catry by P.M.Gandhi, ID, nx; (DILLON-GR)



Editor: Wellece C. Treibel, 357 N.E. 149 St., Seettle, WA 98155

1710	ARGENTINA RAE in PT 0100, s/on w/multi-lang ID, into dialogue (Howell CA 9/30)
1/10	The DC 0040 my non of Argentine tolk my (Killock NI 9/10/
1715	ATOTAL ALCOLOGICAL AND
L715	DULT INDIAN IC WOR FOLSY IN FC 1310, MORNING SHOW IOF ASIA (KLINCK NI 10/4)
L715	NO. KOREA R. Pyongyang in EG 1134, nx exalting the "Great Leader" (Klinck 9/17)
1735	TAIWAN VOFC in JP 1140, nx, exc signal (Klinck NY 9/17)
1745	TAIWAN VOPC in JP 1140, nx, exc signal (Thinks the Jp 1140, nx, exc signal (Thinks the Jp 1140, nx, exc signal (Thinks the Jp 1140, nx) is a signal to the s
1755	FINLAND RF in FR/EG 0220, ID, "Northern Report" (Tuchscherer WI 9/13)
1765nf?	JAPAN RJ (relay?) in EG 2108, nx, "Japanese Scene" (Frodge MI 9/3) ED: This is a
	new one. It is not listed in the extensive RJ skeds for the period 9/3-11/4
	an anartal in Tistoports Notebook (D. 24, SPDE 89 FRENUA)
1775	DETUDOR WOTE OUITO IN FC 0519, "Passport", MX OI THE ANGES (Calson ON 9/10/
1785	DECE OFFICIATE DET IN EC ALA ID DY. AUTO ADDIV OF GUY, EAC (RECVES 7/43/
1805	pright p Clobe in PT 0100. ID, crazy sound effects, aus, futuoi (noweri or 3/3/
1835	SPI LANKA STAC in FG 1118-1131*, rock mx, 1D, rieds, p (Komblemmer PA 9/13)
1035	in KC 1144 ny contry. ID on the hr (Klinck NY 9/1/)
1840	THE THE AND DEAD TE TO IN FE. MY IN NUL I WAISON UN IV///
1855	CHINA P Beijing in FG 1421, ancient CH architecture, Visit to Heidhein Square
1033	and Forbidden City, cooking show, f-g (Carson OK 10/7)
1005	TROAM DT IN TY 1525 "DY CORDER", THE ON RITY, G (Reeves 7/1/)
1865	count antra bea in Tarango 1454. Th in FG, nx in lang, pop mx, I (Calson 9/0/
.1900	Correct AUDICA DCA in EC 0200 DV C (Carson 9/14) "AITICA 100dy 0200/ // 500/
.1935nf	apparently rool 6010 F (Price VA 9/14) TIK re play 0232 (Incliscience 11 9/307
1000	anima populat pod malar in EV 1600 World DY. "UNDIDUS", G (PLICE VA 7/14)
.1955	USSR R. Kiev in EG 0215, "Ukraine Today", mx, biography, g (Price VA 9/12)
.2000	
.2005	TUNISIA RIVT in AR 2124, CIK SIGW, TELIG MUT, I THE USSR finances, f (Carson 9/14) USSR R. Moscow in EG 1603, nx, "Inside Report" re USSR finances, f (Carson 9/14)
_2010nf	USSR R. Moscow in EG 1803, int, "Inside Report To Merry-Go-Round", g (Carson 10/8) SWITZERLAND SRI in EG 0210, "Dateline", "Swiss Merry-Go-Round", g (Carson 10/8)
2035	SWITZERLAND SRI IN EG 0210, "Dateline", SWISS FEITY CHORE (Price VA 9/5)
2077	SMITZERIARD SAT IN DS 0210, mailbag pgm, pop song, freqs, exc (Price VA 9/5) ISRAEL Kol Israel in EG 0110, mailbag pgm, pop song, freqs, exc (Price VA 9/5)
2085	SYRIA R. Damascus in EG 2010, nx, AR mx, frequent ID's & TC's (Klinck NY 10/9)
13605	SYRIA R. Damascus in Ed 2010, hk, Ak hk, Fragrance of Asia" followed by relay . UNITED ARAB EMIRATES Abu Dhabi in EG 2214, "Fragrance of Asia" followed by relay .
13660	IRAQ R. Baghdad in FR 1954, AR mx, frequent ID's (Klinck NY 10/9) in EG 2255*,
	s/off w/anomits in EG. g (Moore 10/2)
L3665	PAKISTAN RP in EG 1610-1630*, YL w/nx (Tuchscherer WI 9/18)
L3855nf	TOTTAND TODE in TC 2304-2333#, by & features, //10/0/ (Alexander PA 3/13/
L5010v	in the light of the second in the 1341 (MERTER) III DO 1010, INC 10001 NOT
	1 Luching meture of troops from Kampichea (Kiinck 9/23) ill FR 212/ 1 Total may
	TO BE WE WINT AN WINT OFF AT 7127 W/O PETITE AT 2130, I (PLOUGE MI //J/
15067nf?	mining (relay) in W (1111, "In the Third World, In teachers)
	7/15130 (Mali rolay) 11715, 11960 (Frodge MI 9/2) ED: 1 Ve tried to near this
	one for the nest two nights w/o success. This should be all easy one for the nest
	Great ling approve also had this one on this split irequency?
15105	the the training the training the first of the All , like y (First of 7/14/
15155	Friance HCTB Quito in EG 0248, pom re trip planning, exc (Reeves 5/21/ 11 bo
13133	0157 w/world nx, "DX Partyline", exc (Carson UK 9/9)
15160	DITCADIA D Sofia in EG 0648. DX. I (NEWCOMEL PA 9/23/
15165	The paiding in pr 2030 TD TD, pr (Schillze FBi 9/9)
15180	Tido p vilaine is EC 2224 probable DX Show, ITED annous, ID, D (Reeves)/10/
	tigen b wind in the 31/7 mailbar show. (Thestin is language, b (Reeves // 10/
15180	Trainen man Oute in DE 2730 into CM / (0), PT / 330, DIesunduly chils they was
15230	tom rent for 15250 gince latter freq was back as of 9/25 (Lackidshi va 9/10/
1 5 9 9 5	THE PROPERTY IN COLONIZITY TO INTO THE WORK SIG LICHCELL US 2/6/1
15235	MAN BBC relay in Sh 0227, 13, 1800 CAR, toral Islamic devotional mx (Howell 9/9) MOROCOD RTV Marocaine in AR 2320, long Koran/Islamic devotional mx (Howell 9/9)
15335	antit nim in to 1004 by proge review. Int. I Inditute incl in 19/1/
15375	THE WOLS (REEVES 7/10/
15425	USSR R. MOSCOW in EG 2020, News a views , Modern Trends in Asia", pgm on UNITED ARAB EMIRATES R. Dubai in EG 0335-0352*, "Modern Trends in Asia", pgm on
15435	the Muslim legal system, f, //17890 (Kohlbrenner PA 10/2)
	GABON Africa #1 in FR 1935, FR pop mx, interviews, f-g (Frodge MI 9/16)
15475	
15485	NEW ZEALAND RNZ in EG 0350, Togoy match, //1/103, Dis, freqs, nice jazz guitars, USSR R. Moscow in SP 0155-0235, tiks by M & W, ID's, freqs, nice jazz guitars,
15510	USSR R. Moscow in SP 0135-0235, tiks by H a W, 10 5, 12047, mar 1, 10 5, 12047, mar 1, 10 5, 12047, 11 5, 15, 15, 15, 15, 15, 15, 15, 15,

17440nf ICELAND ISBS in IC *1935-2008*, nx, folk mx, //15767 (Alexander PA 9/17) 17575 ISRAEL Kol Israel in RS 1627, IS, pips, ID, nx, //15615, p (Park HI 9/20) in EG 2135. mx. Mosaic magazine w/ interview of basketball player, f (Price VA 8/30) 17595 17620 17640 17660nf 17660 17680 occasional mx, p-f (Treibel WA 10/14) Note: PWBR locates xmtr in Kunming, China USSR R. Kiev in UK *2200-2300, IS, ID's, nx, tlks, cmntry, f (Jordan PA 9/28) USSR R. Moscow in EG 0135, ID, mx, rpt on US hockey tour, f (Price VA 9/21) 17690 17700 17705 NEW ZEALAND RNZ in EG 0600, nx, wx, TC, Alistar Cooke contry, p (Kohlbrenner PA in EG 0539, Pacifica Style into "Story Time" (child story), exc (Carson OK 10/8 17715nf CANARY IS REE Spain relay in SP 2200-2254*, xmtr site ID, REE Madrid signs on at 2259 so you have to be careful! (Schulze FRG 9/30) USA BBC relay Greenville in BG 2105-2130*, "Sports Roundup", nx (Jordan PA 10/1 SOUTH AFRICA RSA in BG 1333, "Touring RSA", ID, freqs, f //21535 (Park HI 9/15) 17715nf 17730 17740nf ASCENSION IS. BBC relay in EG 0650, "Postmark Africa", p (Park HI 9/23) AUSTRALIA RA in EG 0005, nx, "International Report", //17795 (Moore 10/2) 17750 17755nf USSR R. Moscow in RS 0259, lively mx, ID, p-f (Treibel WA 10/14) WEST GERMANY Deut. Welle in FR 1656, listing maildrops in Africa, g (Park 10/9) AUSTRALIA RA in EG 0233, "Communicator" on subject of TV, g (Carson OK 9/9) 17765 17795 17800 FINLAND RF in EG 0956, IS, ID in 5 langs, f (Park HI 10/4) PORTUGAL R. Free Europe in CZ 1750, lively mx, tlk (Tuchscherer WI 9/18) PHILIPPINE IS. VOA relay in RS 1048, jazz mx, //9350, 15325, g (Park HI 10/1) WEST GERMANY Deut. Welle in EG 0602, nx, "Morning Magazine", f (Park HI 9/12) SEYCHELLES IS. BBC relay in FR 0436, LD, "Presse Britannique", g (Park HI 9/9) 17835 17865 17875 17885 17890 JAPAN RJ in EG 0950, contry by Kyushu professor on computers (Park HI 9/25) 17895nf USSR R. Moscow in FR 2200, lively mx, ID, freqs, f-g (Treibel WA 10/11) 21465 EAST GERMANY RBI in EG 1418, pgm re orphans in GDR, f (Carson OK 10/6) 21470 ASCENSION IS. BBC relay in EG 1733, Paul McCartney interview, f-p (Park 9/5) ED: October issue of "London Calling" lists this time & freq as Cyprus relay bu Dale Park cites WRTH Downlink as site source. Maybe they changed on October 1. 21505 SAUDI ARABIA BSKSA in AR 1600, nx? (Klinck NY 9/17) - tentative ID. 21515nf SOUTH AFRICA RSA in SP 2025, ID, nx, SP type mx, g (Treibel WA 10/16) AUSTRALIA RA in EG 1319, xmtr test from Darwin, sports rpt, f (Carson OK 9/8) 21525 21530nf PORTUGAL RDB Lisbon in EG 1600 after pgm in PT, nx, ID, f-g (Treibel WA 10/17) 21560 WEST GERMANY Deut. Welle in GM 1400, IS, nx, cmntry, g (Carson OK 9/8) 21566 COSTA RICA R. for Peace Intl in EG 0437, cmntry on black women (Carson 9/26) pgm by Maryknoll Order 2007 (Moore) "World of Radio" 2230 (Kohlbrenner PA 9/12) SOUTH AFRICA RSA in EG 1450, cmntry (Klinck NY 9/23) UNITED ARAB EMIRATES R. Dubai in EG 1603, feature, class mx, nx (Carson 10/7) 21590 21605 SWEDEN RS in EG 1530, Nordic book fair, Icelandic ballet company (Carson 10/8) 21610 ASCENSION IS. BBC relay in EG 1033, "Vintage Chart Show", p (Park HI 9/25) KUNAIT RK in AR 0840, ID, local mx, political rpts, //15505 (Schulze FRG 9/30) 21660 21675 NORWAY RNI in EG 1603, problems w/1994 Olympics, interview, g (Carson OK 10/8) HONGKONG BBC relay in EG 0415, nx, S-9+ signal (Treibel WA 10/6) ED: Site is pe 21705 21715nf BEC publication "London Calling". Park HI cites Singapore as site for 9/25 log per WRTH Downlink but perhaps the relay site was changed on 10/1. 21725 NORWAY RNI in NO 0640, pop rock mx, abrupt s/off 0645 in mid-song, f (Park 9/11 21735nf INDIA AIR in EG 1027, Hindi folk mx, ID, DX pgm, abrupt off 1045, g (Park 9/11) AUSTRALLA RA in EG 0447, rugby match, f (Carson OK 9/16) 21740 21770 FRANCE RFI in EG 1422, ID, TC, FR pop & rock mx, f-g (Carson OK 9/8) SOUTH AFRICA RSA in EG 1055, IS, theme mx, pips, ID, "Africa South" (Park 10/9) 25790 25895 UNITED ARAB EMIRATES Abu Dhabi in AR 1130-1600, nx, AR instrumentals & vocals, prayer recitations, tlks, flute & percussion mx, ID, g-exc (Jordan PA 10/1-2) 25900 UNITED ARAB EMIRATES Abu Dhabi in AR 0650, clear ID, AR mx (Schulze FRG 9/26) 25944v COSTA RICA R. for Peace Intl in EG 2045, tlks on peace, ID, f-p (Jordan PA 10/5 in EG 2138, "Common Ground" & "World of Radio", f (Carson OK 8/28)

I received about 70 loggings slips from Dale Park 8 days after the deadline. Since I had already completed the first page of Log D, I could not include any of the material prior to 15600. Dale should be commended for his intensive DX'ing but he and a few others did not heed my advice to limit their contributions to their best DX. It is clear that these members put a good deal of effort into preparing the log slips and the unfortunate fact i that it is not practicable to use all of this extensive material.



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