

DX Target: Radio Gaúcha
 A Brazilian News/Talk Station
 By
 Richard A. D'Angelo

Radio Gaúcha was founded in 1927 in Pôrto Alegre, the capital of Rio Grande do Sul, in the south of Brazil. It is part of the "Rebe Brasil Sul de Comunicação (RBS)" communications system that includes 35 radio and television stations and newspapers.

About The Region

The greater metropolitan area of the city of Pôrto Alegre has over 2.2 million inhabitants. It's considered the principal economic center of the south of Brazil because of its position at the left of the Guaíba River. Pôrto Alegre is a major shipping, industrial and commercial center. A modern city, it has many skyscrapers and its riverbanks are lined with docks. Meat, lumber and tobacco from outlying rural areas are the city's chief exports. Pôrto Alegre's industries include brewing, tanning, meat packing and wool processing. The city has many banks and other financial institutions.

The strong European influence of German, Italian, Portuguese and Spanish descendants makes the south of Brazil uniquely different than the rest of the country. Rio Grande do Sul has a subtropical climate with the seasons being very distinguished. There is a balance between industrial and agricultural activities throughout the region. Cattle breeding is the main economic force in the wild fields of southern Brazil known as the "Pampas" where "churrasco", a selection of charcoal broiled meats, is popular.

The Station

Radio Gaúcha is one of approximately 150 stations utilizing shortwave in Brazil. The station broadcasts on the medium wave and two shortwave frequencies. With a power of 100 kilowatts, Radio Gaúcha uses a 230 metre tower, which is the highest in Brazil, on a medium wave frequency of 600 KHz. The station uses the call prefix ZL 278 on medium wave. Broadcasts on shortwave use a 7.5 kilowatt transmitter on the frequencies of 6,020 KHz in the 49 metre band and 11,915 KHz in the 25 metre band. The former uses the call prefix ZYE 851 and the latter uses the call prefix ZYE 850. The stations programming is news and sports oriented with an American "News and Talk" format. Their nominal daily schedule is from 0530 to 0300 local time or from 0830 to 0600 UTC. They have been known to operate, at times, on a 24-hour schedule.

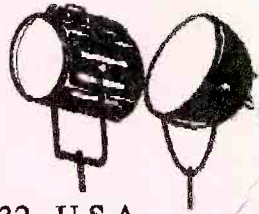
Radio Gaúcha is a good verifier with Alexsandro Matti, Departamento Técnico Radio responding to DXers requests. Portuguese reports are suggested although the station does reply with a Portuguese QSL folder card. Mint stamps or US dollars are the preferred forms of return postage. Address reception reports to:

Radio Gaúcha
 C. P. 1164
 90001 Pôrto Alegre
 Rio Grande do Sul
 Brazil

Remember to report your reception of this DX Target to Tom Sable's West
 Hemisphere column and your QSL returns to my Forsgren's QSL Report.

Good luck with this DX Target!

Spotlight on...



edited by: John Trautschold

354 N. Winston Drive

Palatine, IL 60067-4132 U.S.A.

(with the help of the Altair 8800 & Atari 1040ST computers....)

SPEEDX SPOTLIGHTS

SEPTEMBER 1989

EDITED BY: JOHN TRAUTSCHOLD & THE ALTAIR 8800 COMPUTER
354 N. WINSTON DRIVE, PALATINE, IL 60067-4132 U.S.A.

TOTAL CONTRIBUTORS: 38

1	BERRI, JASON	CA R2000	1	LANG, LOIS	FL
	BISHOP, FORREST	NY RF4800	1	LEADER, PATRICK	IR D2615
	BLIGHT, WILLIAM	MD FRG8800	7	LEVISON, HAROLD	PA IC-R70
	BRONOWICZ, MICHAEL	NJ	1	LOE, DAVID	OH
	BROWN III, EDWARD	IL ICF6800W	1	MAHLING, DIR'	MA ICF7600D
5	CARD, PETER	RI NRDS15	3	MATSUSHITA, YUKIMASA	JP RF2200
	CARSON, JOHN	OK SPR4	6	MEINHARDT, WARREN	IL
0	CICHOREK, EDWARD	MA FRG8800	3	MILLER, WILLIAM	CA DX400
	D'ANGELO, RICHARD	PA NC190	2	ROGERS, JOHN	MA
	DILLON, PETER	GR DX400	1	ROSWELL, CHUCK	NA
5	FAMULARO, RALPH	JP ICF6000A	1	SAMSON, DANIEL	WI FRG7700
3	FISCHER, GREG	WI NRDS25	1	SARIKOV, IGOR	UR
	FLYNN, BILL	CA R7A	1	TARRANTON, DON	NJ
	FRASER, BOB	MA XCR30	1	TJNBERG, BO	PA R1000
	GEORGE, STEVE	MA R5000	5	RESCHER, FRED	PA FRG7700
	HANSON, JEFFREY	WA	1	AKEFIELD, PAUL	IA ICF2010
	HARDESTER, MIKE	VA IC-R70	5	ESTENHAVER, WILLIAM	PQ ICF6500W
	KUNKEL, ROLAN	CA DX440	3	JILLERS, STEVEN	SW
	KURODA, TAKASHI	JP NRDS25	7	YARBOROUGH, C.	NC

FOLLOWING COLUMNS DIRECT CONTRIBUTORS WERE NOT RECEIVED IN TIME:
AFRICA / UTILITIES / QSLs

FOLLOWING COLUMNS ARE INCLUDED FROM LAST MONTHS BULLETIN:
NORTH/SOUTH AMERICA

NEW FULL MEMBERS FOR SEPTEMBER ARE...

NICOLAS DELAUNOY.....NCE
GARY FROEMMING.....

Welcome to the ranks of full membership!
Your contributions over the past few months
have been important to the club. We look
forward to your continued participation.
Remember too that you are not eligible to
vote in this month's Board of Directors
election. Support your club and vote!

**FIRST TIME CONTRIBUTORS FOR
SEPTEMBER ARE...**

CHUCK ROSWELL...NETHERLANDS
CHUCK YARBROUGH.....NORTH CAROLINA

Thanks to both of you as well for your initial support of SPEEDX. Remember, in order to earn full membership status you must earn 10 credits within a year's period. By the way, Chuck Roswell is the frequency coordinator for *Trans World Radio* in Bonaire. We look forward to your input here Chuck!

Well...as you can see from the listings above, it's been a rather slow month here at SPEEDX. Lot's of vacations and poor listening conditions I guess. Now that summer is coming to a close, we look forward to lots and lots of contributions from all of you again. Let's make that Altair 8800 really sing!

IT'S SPEEDX ELECTION TIME

Last month (August) you saw the campaign statements. This month it's your turn to vote. If

you are eligible (are a full member) you will receive a ballot with this month's issue of SPEEDX. Please send it in right away so that your vote can be counted. The people elected will steer your club for the next two years so your vote is important. See voting details on the enclosed ballot!

If you believe you are a full member but didn't receive a ballot drop me a note IMMEDIATELY! I'll check the records and let you know one way or another (a SASE would be appreciated). Thank you all...let's make this the best SPEEDX election yet!

MEGAPOWER SHORTWAVE TRANSMITTER GOES ON THE AIR

The world's most powerful, privately owned shortwave transmitting station, completed as part of a turnkey project in Cypress Creek, SC, has been turned over to *World Service Herald Broadcasting* (WSHB), a division of "The Christian Science Monitor" syndicate. With 1,000kW of carrier power, the station is one of only a handful of shortwave stations in the megawatt bracket.

Ordered by The First Church of Christ, Scientist, in Boston, the Cypress Creek station will be the most powerful, most modern religious broadcasting station in the world. In addition to news, religious programs will be broadcast in English and Spanish to Mexico, Central America and South America.

The station consists of two 500kW shortwave transmitters manufactured by Asea Brown Boveri, that incorporate the feature of dynamic carrier control. The outputs are fed into phased, high-gain, shortwave curtain antennas. The transmitters are the newest generation of frequency-agile, fast-tuning, high efficiency pulse step modulated (PSM) design.

Licensed in 1930, "The Christian Science Monitor" was the first religious broadcaster in the United States. Religious broadcasting has become the fastest-growing sector in international shortwave broadcasting, with spectacular growth in the U.S., the Middle East and the Far East.

FROM CHUCK YARBROUGH.....

Hmmm...now where did we just hear that name? Oh yes, the new contributors list above. Hi again Chuck! Chuck sends the following information regarding Trans World Radio...

Trans World Radio (TWR) recently

announced that they will be moving their international mission headquarters from the current site at Chatham, NJ to Raleigh, NC late in the fall of 1989 or early winter of 1990.

The main reasons given for the move were rising labor costs and the high cost of living in the New Jersey area. The group reportedly has a buyer for its Chatham property with the sale pending rezoning by the county.

While the international mission headquarters will be moving, the five broadcasting sites which TWR currently owns will not be affected by the administrative move. Those sites include Bonaire, Netherland Antilles; Columbo, Sri Lanka; Agana, Guam; Monte Carlo, Monaco; and Swaziland, Africa. In addition to these major broadcast facilities, TWR also has numerous field offices as well. Among these are offices in Melbourne, Australia and a production studio in Hong Kong.

TWR also runs several medium-wave stations. Among these is its station in Bonaire on 800 kHz and a station in Sri Lanka where earlier this year TWR's shortwave broadcasts were suspended, pending renegotiation with the Sri Lanka Broadcasting Corporation (SLBC). Currently the SLBC is using TWR's facilities to increase its coverage in the Indian subcontinent (reported by Victor Goonetilleke, Sri Lanka via RN's *Media Network* 7/7/89.)

Numerous sites for the new international mission HQ were researched, especially in the western and southern United States. The Raleigh site was chosen because of its low cost of living and moderate climate.

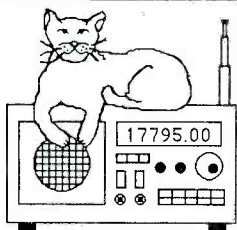
TWR, as reported on RA's *Communicator* program (6/11/89) has an annual budget of \$20.5 million plus an additional \$15-20 million from its partners (donations) and employs approximately 850 people worldwide. It broadcasts in 84 languages and has a total of 25 transmitters worldwide.

WANTED: Old boat-anchor ham radio linear for restoration: Heathkit HA-10 "Warrior" or KL-1 "Chippewa" and/or power supply; Hallicrafters HT33; Viking Courier, Thunderbolt or Johnson Kilowatt, working, semi-working, or decent salvage considered. N2EAW, Nolan Stephany, 3369 Lake Road, Williamson, NY. (315) 589-8863. (No collect calls please.)

That's it for this month....see ya again later...

73 from John...





DX Montage

Ed Janusz

Box 149

Bricktown, NJ 08723

1. DX TARGET, Richard A. D'Angelo
2. SPOTLIGHT ON..., John Trautschold
4. DX MONTAGE, Ed Janusz
9. TECHNICALLY SPEAKING..., Kent Willis
12. CONTINUOUS TUNING, Bruce MacGibbon
16. WHAT'S ON..., Daniel Sampson
20. WESTERN HEMISPHERE, Thomas F. Sable
22. EUROPE, Daniel Sampson
26. USSR, Jason Berri
27. AFRICA, Al Quaglieri
30. ASIA/OCEANIA, William Westenhaver
35. QSL REPORT, Ray Forsgren
38. UTILITY SCENE, Paul Lannuier

Hi. Welcome to another "every print wheel I can find" column. This will be a somewhat elongated DXM this month, due to the absence of "Latin Notebook." (Carl is doing fine, but the mail out of Mexico has been a bit slower this month than it has been for most of 1989; I expect a column from him shortly--probably while this issue is being printed--and more good reading for you in October's SPEEDX.) Fortunately, my friend Gilles Michaud taped some interesting interviews at ANARCON,

and the following are transcriptions of duplicates I made in between trips to the coleslaw table at the CIDX barbeque. Some editing was necessary, though all efforts were made to eliminate only redundancies and unclear passages. Responsibility for misspellings and mistranscriptions remains upon the aching shoulders of your humble editor. The transcription was enjoyable, although slow, and I hope you enjoy reading these interviews.

JEFF WHITE

JW: I have the honor, I guess, of organizing this year's ANARC convention; and I say the "honor" because this is the 25th anniversary of ANARC, and this is the first time in ANARC's history that we've ever had a convention in Florida, or anywhere in the southeastern United States, for that matter. So we were really pleased to do a convention here; I'd been wanting to do one here in the St. Petersburg area for many years, because I know the area quite well--I'd lived here before--and I just thought it would be a perfect place, one where you could combine a vacation and a convention together. So that's what I've been doing for the past...well, we've been working on this for the past two years, and really in earnest for the past six, eight months. But I certainly didn't do this by myself; we had a lot of help from George Neff, our assistant convention chairman, who dis most of the routine correspondence and the hotel reservations, and all kinds of logistical arrangements; he and his wife Linda worked on that and at the convention itself. Also, Bob Horvitz put together several of the programs that went on this year's agenda.

GM: And what are your comments about the results of this year's convention?

JW: Well, I guess I could give you a summary based on the comments I've heard from other people. Apparently, the agenda was quite popular; we picked a thematic agenda this year, the theme being "broadcasting in the Caribbean Basin;" and not all, but most, of our programs dealt with that. And most everybody I talked to thought that the agenda was very good. In terms of location, I also thought that was very popular; I didn't hear any negative comments about the location, the hotel was quite cooperative ... (break in the tape) ...the broadcasters who didn't attend also gave us a lot of publicity. The only area in which the convention wasn't a great success was the overall attendance; as we speak, I don't have the final attendance figures yet, but certainly it's going to be under 200. And we had hoped that it would be closer to 300. Why? We don't know yet, although Bob Horvitz pointed out the other day that, nationally, all convention and meeting attendance in the United States is down something like 30% to 35%. It seems to be a national trend, and maybe we're just following that.

But that's not all that important, because it looks like...well, we may not make a lot of money on the convention, but I think we'll break even, and the important thing is that the people who came got their money's

worth. They had an opportunity to meet with other shortwave listeners; and the broadcasters had an opportunity to meet with their colleagues. That's another thing: The broadcasters' meeting, held the day before the convention, was the largest we ever had held in conjunction with an ANARCON; we had over 30, which I think was about three times as many as we had last year. These broadcasters had an opportunity to meet many of their listeners, and get some feedback, and talk with them on a face-to-face level. So I think that, in all respects, I consider this convention to be a great success.

DIETER WOERNIG

GM: Could you just give us a brief introduction of yourself and what you do for the station?

DW: My name is Dieter Woernig, and I am at present head of the North American department of Radio Deutsche Welle, the department that produces English-language programmes for North America seven times a week. I've been in this business for the past eighteen years, so I suppose I'm getting on.

GM: We'd like to know what is happening in the hobby in your country.

DW: Well, I'm not an expert on the shortwave hobby, but my impression is, and that was strengthened by the Berlin conference of international broadcasters a couple of months ago, that the hobby is actually going down very much, not just in Germany but also in Central Europe as a whole, and the clubs aren't what they used to be. They certainly seem less active than over here in North America.

GM: And what has been the listeners' response to your station?

DW: Generally speaking, it's been very good, as far as the whole output of Deutsche Welle has been concerned. I can tell you that we get between 350,000 and 400,000 letters a year, of which only a small percentage comes from North America. From there, we get only 4,000 or 5,000 every year; but that gives us a very good idea of what listeners in North America want and what they don't like.

GM: What has been your general opinion of this ANARC convention?

DW: I found it was a very lively affair, a very enjoyable affair, where I have met many new people and also some old friends. If we can keep the level, the quality, of ANARCON '89 next year, I should be very happy. *(I'm glad Gilles got a chance to catch up with Dieter Woernig; I enjoyed chatting with him at the 1987 convention in Ontario. ej)*

HAN HEE-JOO

My name is Han Hee-Joo. I'm Korean, and I'm working for the international service of Radio Korea, broadcasting in 12 languages from Seoul, South Korea, and I have been in this business for some 15 years now. And I'm so happy to be here to attend this ANARC conference.

The second question you asked is, "What is the state of the DXing hobby in South Korea?" In order to give you a plausible answer, I think I have to begin with the background of our DXing environment...well, here in--there in--my country, the domestic sales of the domestically-produced receivers are not that much encouraged, in spite of the high level of South Korea's electronics industry. We have a special reason for that: Because of the South-North conflict on the peninsula, the South Korean government is not that pleased to encourage the domestic sales of these machines.

Your third question was about the listeners' response to our programmes. I think that, in terms of the size of the letters or the technical reception reports, it's on an increase. But one thing which I'm not quite pleased with is, the majority of them are beginning to complain about the deterioration of our programmes' reception overseas. It's such a frustrating experience for me to meet the people telling me, "Hi, you're from Radio Korea, I can't hear you!" So what I'll have to do on my return is to pass on all the information I've gathered here to the technicians of my radio station, so that they'll be able to follow the steps which have already been taken by the other radio stations. But, overall, the staff at Radio Korea believes that there exists the listenership; it's quite considerable, in our opinion, but, just because of that listening condition, we just cannot readily satisfy their interest and taste of different listening habits. 'Tis such a pity.

And number four, the ANARC convention. I think I should begin with mentioning my past experiences in attending another meeting; that was the European DX Council, 1983 in London. That was my first experience in attending this sort of DX-related event. I met quite a lot of people in the same radio-related business, plus all the listeners who had taken their time to come out there. All this was such an exciting experience, I think I appreciate the enthusiasm which is involved in these events. And now, having been here at ANARC for a couple of days now...in the first

SPEEDX ANNUAL FINANCIAL REPORT
FY 1989

THIS IS A SUMMARY OF THE SPEEDX ACCOUNT FROM 1 JULY 1988 THROUGH 30 JUNE 1989 INCLUSIVE. A MORE DETAILED REPORT IS PROVIDED TO EACH BOARD OF DIRECTOR MEMBER EACH MONTH.

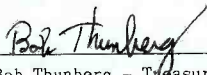
Balance on hand 1 July 1988 \$1845.70

Receipts	Prepaid Subscriptions	\$ 3436.00
	Prepaid Renewals	6099.25
	Supplies	664.89
	Miscellaneous (incl donations and interest)	681.16
		<hr/>
	Total Receipts	\$10881.30

Disbursements		
	Publish 12 Issues	\$ 6062.87
	Postage 12 Issues	3506.51
	HQS Postage	460.24
	HQS Supplies & Printing	266.73
	Miscellaneous	260.75
		<hr/>
	Total Disbursements	\$10557.10

Balance on hand 30 June 1989 \$2169.90

I certify this summary of the SPEEDX account is true and accurate to the best of my knowledge.


Bob Thunberg - Treasurer

* * * * *

place, the size of the turnout--I think it's on a rather gradual decrease now, but I don't know if this reflects the enthusiasm or the interest in this scientific hobby on the part of you American listeners, or if it's those who have interest in coming here. So overall, I don't think I can give an exact analysis, but my personal impression is, from the surface, the number of people is on a gradual decrease.

And...getting back to the poor reception of my station, it's such a large number of people who are complaining that, during the first half of the meeting, I was a little bit discouraged. But yesterday, I think, was such an exciting day for me and for some of my other colleagues as well. I think it's, overall, quite nice.

And since I flew some 24 hours from Seoul just to attend this conference, I also have to make the most of this opportunity to gather some professional information for my future editions of shortwave programming. Also, I was given the request from some of my colleagues in some of the other language services to gather some voices and sounds of this conference in other languages as well. So I think I am such a hard worker here!

KAZ MATSUDA

GM: We would like to know a little about what is the state of the hobby in your country, and club activities and listenership.

KM: In Japan, about 10 or 15 years ago we had a big surge of interest in shortwave which was mainly generated by the manufacturers of shortwave radios. As soon as the boom was over, the state of shortwave listening in Japan has been declining. And now we've gotten to the stage where shortwave listening is not that popular among the general public. On the other hand, we now have a new kind of people--people in their late 20's or early 30's who have never known that shortwave broadcasting exists until now. And these housewives, or young businessmen, who need to know what's going on in the world, they've found that shortwave broadcasts are the fastest and the cheapest way to be informed. The interest is growing bit by bit; still, the level is not what it was 15 years ago, when we had a fad.

GM: What is the general listener response to your broadcasts from around the world?

KM: They like my programme, for two reasons. One, it's geared towards the beginners, and possibly to intermediate people. My programme is not geared to the advanced shortwave listener, because we want a wider range of listeners to tune in, and recently I've been getting a lot of letters

from listeners in Southeast Asia and Africa, for some reason, who are just starting to listen to shortwave radios and who just happen to tune in to Radio Japan. On the other hand, I have letters from hardcore DXers from Australia and North America who enjoy some segments of my programme, such as the Survey (in which we focus on one subject at length; one of the recent Surveys we did was on clandestine stations broadcasting in Chinese). I also have shortwave test reports which I've arranged with Ian McFarland; he sends me the tapes of the reports he does with Larry Magne...so I have a variety of segments, features, each week. It should be providing something for everybody.

GM: I see...so what's your general opinion of this weekend's ANARC convention?

KM: Well, this week I'm here on holiday, I'm not here officially. I'm enjoying it; I'm meeting the broadcasters I met last year, and listeners I met last year, and new faces; generally, I like to meet listeners and get their response to our programming. This is a great place to do that.

*

Thanks to Jeff White, Dieter Woernig, Han Hee-Joo, and Kaz Matsuda for taking the time to talk with roving reporter Gilles Michaud; and thanks especially to Gilles for making these interviews available to this column.

A SPEEDX PORTRAIT: BILL FLYNN, WDX6AF

One of the four co-founders of SPEEDX, Bill has been a DXer since 1947. In his high school days, he chanced upon a copy of RADIO NEWS, featuring Kenneth R. Boord's "International Shortwave" column. The DX bug bit hard! While stationed at Fort Monmouth (*where? never heard of it! ej*) he was appointed a Director-at-Large of the Newark News Radio Club, and remembers the Board meetings of that illustrious group! He was West Coast SWBC Editor of the Universal Radio DX Club of Hayward, CA, for a while; and he edited a QSL column for ASWLC, but with the starting of SPEEDX, he shed "QSL's" to become the new club's first Managing Editor. After many years in the hobby, he has acquired confirmations from over 300 "Radio Countries" and over 1000 stations in the various modes. He retired about 3 years ago from his career in electronics sales and purchasing. These days he enjoys the DXing hobby immensely, and pursues SWBC, amateur, medium-wave, Utilities, FMBC, and VHF/UHF DXing modes!

Thanks for writing, Bill! It's a pleasure, always, to hear from veteran SPEEDXers who are still involved actively with the club. Fort Monmouth is about 15 miles north of Bricktown. Among its other illustrious alumnae is former SPEEDX treasurer Jack Sanderson.

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INOPERATIVE STATEMENTS AT THIS POINT IN TIME, PART 86

Last month, this column discussed the Shortwave Listeners' Program Guide, edited by Kraig Krist. Shortly after going to press, Mr. Krist announced a new publishing schedule and new subscription rates. The magazine is now \$25.00 in the USA; \$37.50 in Canada and Mexico; and \$75.00 elsewhere, and will be published quarterly (Feb/May/Aug/Nov).

WHEN IN MINNEAPOLIS...

...you can visit Joe Pavek's Museum of Wonderful Wireless. According to the Minnesota Explorer (Spring/Summer 1989): "...The museum tells a compelling story of the medium's early history and technology. An astounding variety of equipment is meticulously arranged in displays tracing the development of each particular type. The museum's very earliest equipment dates back to the turn of the century, (and the) experimental days before the first licensed station went on the air in 1920. Receivers range from the primitive spark broadcast transmitters and crystal sets of the 1910's to the beautiful wooden consoles of later decades. A special section is devoted to thousands of vacuum tubes, from tiny tubes less than an inch long to a massive, water-cooled broadcast transmitting tube from the early days of WCCO, a Twin Cities station that is today one of the most powerful in the nation."
3515 Raleigh Avenue, East St. Louis Park, MN; (612) 926-8198. Thanks to Daniel Sampson.

PROGRAM NOTES

Ed Cichorek writes: "I happened to catch WYFR on 19 August at 15215 kHz, and heard the end of 'Science Update' (a discussion of black holes). At 1552 UTC, the announcer said the program was being discontinued, but the station was not at liberty to say why on the air or by letter. Sounds mysterious to me!"

Hmm. That is an odd one, Ed. On a more cheerful note, I've been enjoying "International Talking Point" on Deutsche Welle's Sunday night programme

(UTC Monday) to North America. It's a round-table discussion which takes on a different topic each week, primarily of an inter-European or East/West nature; recent topics have included the Polish economic crisis, refugees from East Germany, and an international meeting of Protestant church leaders. What makes it especially interesting is that the participants aren't afraid to disagree with one another; also, the programmes are prepared within a couple of days of broadcast, and tend to be very up-to-date.

ANARC AUDIO

SPEEDXer Gerald Kercher will be putting the ANARC NEWSLETTER onto cassette for sight-impaired listeners. The cost of this will be \$25/year in the USA, \$28/year to Canada. Send your orders to ANARC on Tape, c/o Tom Gavaras, 10401 Cedar Lake Road #215, Minnetonka, MN 55343. (Mr. Gavaras will be in charge of copying and mailing the tapes.)

ANARC AWARDS

Each year, ANARC gives awards for outstanding achievements and contributions to radio club activities. Here are this year's winners:

North American Shortwave Broadcast DXer of the Year: MITCH SAMS

International Shortwave DXer of the Year: ARTHUR WARD

Specialty Band DXer of the Year: GREG MONTI

Broadcaster of the Year (3-way tie): GLENN HAUSER, JONATHAN MARKS, and FRED VOBEE

Article of the Year: "Broadcast Band Apparent Frequency Deviations and Earthquake Forecasting--a 15-month Report," by RAY COLE for the National Radio Club's DX NEWS.

GREENPEACE ON THE AIR

The international environmental organization Greenpeace now has a programme on KUSW. Look for them Sunday 2015; Monday 1930; Tuesday 2030; Wednesday 1830; Thursday 1930; Friday 2030; and Saturday 1830, all on 15650 kHz via KUSW, Salt Lake City. (Thanks to Dick Moon.)



Fine Tuning's *Proceedings 1989* is this year's must have collection of in-depth reviews, articles, and features for the SWBC DXer. This 2nd edition follows in the footsteps of last year's successful publication. Because of the volume of information, *Proceedings 1989* is presented in a photo reduced format (equivalent to 300 typewritten pages). Over 24 DXers have written for this 1989 edition, and each article has been thoroughly examined by a review panel of leading DXers. Included are reviews of receivers and accessories, antenna articles, three superb DX features, and an extensive collection of hints, tips and resources. This is an essential reference for anyone wishing to increase their enjoyment and expertise as a SWBC DXer.

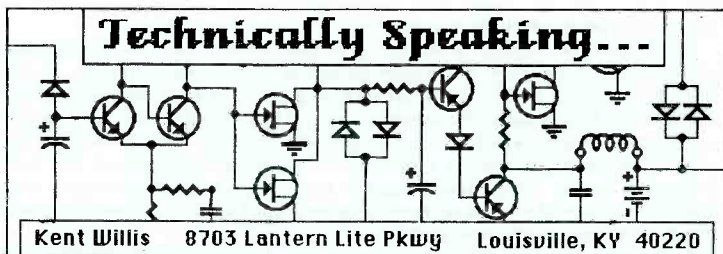
Proceedings 1989 will be mailing in mid-August. Don't delay ordering... last year's copies disappeared fast. The cost is \$19.50 plus \$2.00 postage. Outside of North America, postal costs are \$3.00 surface book rate or \$15.00 airmail. (US funds on a US bank, please). Make checks or money orders payable to Fine Tuning Special Publications and mail: c/o John Bryant, RRT #5, Box 14, Stillwater, OK 74074 USA. *Note: a few copies of Proceedings 1988 are available at \$15.00 plus postage (rates as above).*

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Well, that's about it for this month. Off to the printer tomorrow... incidentally, I think that the problems which have plagued several issues this year (notably June's) are behind us for good. If there's a problem with this column in particular, it's because I don't have time to proofread it. Enjoy!

73's, Eddie

(this space for notes!)



Welcome. This installment of "Technically Speaking..." commemorates one year of writing this column. I have enjoyed the responsibility and I sincerely hope all SPEEDX'ers have benefited in some way. I appreciate the support, questions, and contributions from you. I am looking forward to another year.

It is with great sadness that I write this month's column. A good friend of mine, Gary Atkins of Macon, Georgia (formerly of Louisville, KY) died this week at age 48 of a rare and inescapably fatal form of liver cancer. Gary was the first person to teach me the joys of shortwave listening about 15 years ago. I listened to his stories of long forgotten DX and envied his QSL's from the likes of Leopoldville in the former Belgian Congo, letters from Panama and other rare places. Gary was a member of SPEEDX in the past, and was very active in the National Radio Club. I will miss him very much. I wish him Tristan and Maldives at S9 + 60 dB. Goodbye my friend.

Because I have 3 pages this month, the primer on decibels will appear immediately following my usual 2 pages. I have attempted to explain the basic concepts as completely as possible in only 1 page, but after some reflection, I believe I may not have provided enough information. I apologize for mentioning the "inverse transformation" (antilog) without providing a worked example. Write me if you have any questions.

Several readers have inquired about active antennas and this column is for you and everyone else, of course.

Active Antennas: Principles and Application

What do we mean by the term "active"? Does this imply that other types of antennas are "inactive"? The term "active" usually indicates the presence of electronic amplification, often needed to compensate for the inherently lower gain of a physically "small" antenna. A "small" antenna has dimensions much less than a wavelength at the intended operating frequency. As frequency decreases, the wavelength increases because of the relation:

$$f\lambda = c \text{ or frequency} \times \text{wavelength} = \text{the speed of light} (3 \times 10^8 \text{ meters / second})$$

Example: What is the wavelength of a 6.100 MHz signal? Solving the above equation for wavelength yields 49.18 meters. Now you see where the term "49 meter band" comes from. Therefore, an antenna which is 1 wavelength long at 6.100 MHz would be about 49.18 meters (161.4 feet) long. An antenna that was smaller than about 16.14 feet (1/10 of a wavelength) would be considered "short" for receiving signals at 6.100 MHz.

Most commercially available active antennas incorporate a single small telescoping rod or dipole and some sort of preamplifier and impedance matching network. The impedance matching circuitry is required to provide maximum signal output because of the drastic difference between the output impedance of the antenna circuit (typically very high) and the input impedance of the receiver (typically very low). The "Funtenna" is not considered "active" because it contains no active electronic amplifying circuitry.

The typical active rod is anywhere from about 3 to 6 feet long and the typical dipole is about 6 to 10 feet long. Herein lies the major reason for using an active antenna: they require much less space than a typical longwire or trapped dipole. They can even be used indoors, although most are better suited for outdoor installation. The single vertical rod types have essentially isotropic (directionally uniform) response while the dipole styles favor signals arriving parallel to their length. This directionality may help to minimize local interference which is

arriving perpendicularly to the dipole.

Devices which contain a single, small (i.e., about 1 to 4 feet fully extended) telescoping rod are more accurately known as "capacitive" antennas. Automobile whip antennas for AM reception are one example. The term capacitive stems from the fact that the electrical behavior and equivalent circuit model of such antennas is primarily capacitive with respect to ground. They can simulate the performance of a 1/4 wavelength antenna over large frequency ranges, such as the 2-30 MHz shortwave bands. They usually have a more or less constant output over their intended range and require no manual adjustment (peaking). Have you ever seen a AM/FM car radio with an antenna tuner?

Rod antennas were originally used in the late 1940's for measuring low frequency electric field energy, for example, when testing consumer electronics for compliance with FCC emission standards. They did not contain any electronic amplifying circuitry but did contain passive (inductors, resistors and capacitors) components to match their output to the common 50Ω receiver input impedance. They required many adjustments during use in order to cover a wide frequency range and the resistances of the matching circuit introduced a considerable loss which often masked weak signals. Addition of the active circuitry compensated for many of these shortcomings and improved the performance considerably.

A 1 meter rod antenna (6 mm diameter) will have a capacitance of about 14 - 15 pF. This doesn't sound like much, but when such an antenna is connected to the input of an FET amplifier with an input capacitance of about 15 pF, the two capacitances will behave like a voltage divider and introduce a signal loss of 50% (-6 dB)! This is the other main reason for the necessity of active electronic amplification. The preamplifier usually consists of two stages: the first stage which provides current gain and impedance matching between the rod and first stage, and a second stage which provides voltage gain and impedance matching between the output stage and the receiver input. A combination FET (field effect transistor) and ordinary NPN bipolar junction transistor stage in the front end of the rod amplifier can provide a very low input capacitance and consequently, extremely high input impedance. The greater the input impedance, the greater the operating frequency range. The additional noise created in the first stage by the active components determines the maximum sensitivity to weak signals. The thermally generated noise from the equivalent input impedance is the critical limiting factor.

Since the rod looks essentially like only a capacitance to the preamplifier, the rod has an associated capacitive reactance which increases as the operating frequency decreases. The thermal noise will therefore be quite high at low frequencies. Most active antennas are much more efficient at higher frequencies.

What are some of the advantages and disadvantages of active antennas? The main advantage is the small size as mentioned earlier. The outdoor models usually have loop clamps or bolts which easily attach the antenna to a TV antenna type mast. Installation is usually much simpler than for a longwire. Also, birds find it quite difficult to perch upon vertically mounted whips and rods and therefore they do not "decorate" the area beneath them! Some active antennas require no manual tuning to cover the intended operating frequencies, indeed many of them have nothing but an "on" switch. On the negative side, active antennas tend to be much more expensive than a simple copper longwire and antenna tuner, which incidentally, will produce very similar results. They all require some source of external power, either batteries or an AC power source. Some models operate only about 100 hours on batteries which therefore must be replaced rather often. AC power capability eliminates this problem, but requires an additional wall or power strip outlet that may already be crowded.

A good active antenna should have a variable gain control to limit the output signal level by about 10 to 30 dB. This will prevent overloading of modern solid state receivers when tuned to strong signals from some of the international powerhouses like Deutsche Welle, Radio Nederland and many others. Some receivers with notoriously delicate FET input circuitry such as the popular Sony ICF-2010 will likely be damaged by the strong output of many active antennas with 10-30 dB of gain when connected directly to their input without some attenuation.

If you don't have a great deal of space or don't want an unsightly antenna "mess" and are careful not to overload your receiver, an active antenna should serve your listening needs well. However, 50 feet of longwire 30 feet high and an "L-C" network antenna tuner will perform just as well for about one fifth of the expense.

"dB, or not dB... That is the question". Decibels: Derivation And Application

The decibel is a very convenient and appropriate concept for electronic measurement. The decibel is one-tenth of a Bel, so named in honor of Alexander Graham Bell of "Watson, come here I want you!" fame. Historic words, of course. But if you spilled a quart of concentrated acid in your lap, do you think you would have needed a *working* telephone so someone in the next room could have heard you scream for help? I think not!

The concept behind the decibel is an expression of ratios of like variables, usually powers, but also voltages, currents and so on. The ratio of two unlike entities can also be expressed in decibel form, but the RMS (root-mean-square) values of the parameter's amplitudes must be used instead. The decibel is inherently a logarithmic entity. This stems from the fact that the human ear is a logarithmic rather than a linear device. An acoustic signal with twice the amplitude of some reference isn't perceived as twice as "loud". Under ideal conditions, a person with excellent hearing can perceive an audio change (increase or decrease) of about 1 dB. This is equivalent to an approximately 26% change in level. By definition, the ratio of two signal amplitudes in decibels is given by:

$$\text{dB} = 20 \log_{10} \frac{A_x}{A_y}, \text{ where } A_x \text{ and } A_y \text{ are the amplitudes of the compared signals.}$$

For example, if A_x is twice as large as A_y , the ratio of A_x to A_y is +6 dB. If A_y is twice as large as A_x , the ratio of A_x to A_y is -6 dB. Expressed in terms of powers:

$$\text{dB} = 10 \log_{10} \frac{P_x}{P_y}, \text{ where } P_x \text{ and } P_y \text{ are the powers of the two signals.}$$

The difference between the two expressions is obviously a factor of 2. Power ratios do not depend upon the impedances of sources or loads. Voltage and current ratios do depend upon the equality of source and load resistances. If the source and load, (input and output) resistances of a circuit are not equal, the expression for dB must be modified again.

The decibel is often used as an absolute measurement of some arbitrary signal compared to a reference. For example, if our reference is 1 watt, a power level of 1 milliwatt is -30 dB. One milliwatt of power is 30 dB less than (below) 1 watt. A 100 watts of power would therefore be +20 dB greater than (above) 1 watt. (The term neper is used in other parts of the world in the same manner as we use decibels, but they are not equal. One neper equals 8.686 dB. Conversely, one dB equals $1/8.686 = 0.1151$ neper).

It is convenient to remember the dB equivalent of commonly used ratios. If one signal is twice as large as another, the ratio is approximately +3 dB. If we increased the power output from our stereo speakers from 10 watts to 20 watts, we would have increased the power output by 3 dB. If we increased the output from 10 to 100 watts (a factor of 10), we have increased the output power by 10 dB. If we increased the power from 10 to 200 watts (a factor of 20), we would have increased the output by 20 dB, right? Wrong! Be careful here. Use the equation. A factor of 20 power increase is equal to +13 dB. +20 dB would have corresponded to an increase of 100 times, i.e., from 10 watts to 1000 watts. Ouch! Now our hearing is permanently destroyed, and dB's don't matter anymore-hi!

As an illustration, a "signal to noise voltage ratio of 10 db" simply means that the magnitude of the signal voltage is 3.16 times the magnitude of the associated noise voltage. We found this value by performing the inverse transformation (taking the antilog) of the first equation above.

A simple example will show how easy it is to use decibels:

(1) Voltage 1 is 3.5 volts. Voltage 2 is 10 volts. What is the ratio of Voltage 2 to Voltage 1?

$$\text{dB} = 20 \log_{10} \frac{V_2}{V_1} = 20 \log_{10} \frac{10}{3.5} = 20 (0.456) = 9.12 \text{ dB}$$

CONTINUOUS TUNING

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SEPTEMBER 1989

Deadline is the 12th of the month

UPDATE - Burma, Myanma, Myanmar? & Li Dan or not Li Dan? - Ref "CT" Aug 89: On 8/7 on Radio Australia news, the newsreader said Myanmar. This started me calling different organizations again! The local library "Facts on File" says the correct spelling is MYANMAR!

Li Dan or not Li Dan? "The identity of the speaker has been the subject of great controversy. It was widely reported to have been Li Dan, including an insider account by English advisor Steven Crandell, in the June 30 San Francisco Examiner (via Joel Rubin), but people who have met Li Dan, and know his voice insisted to us at the ANARC convention that it was someone else whom they would rather not identify." ("Review of International Broadcasting" Issue 130 Edited and Published by Glenn Hauser). A Chinese student friend of mine who just returned from "The First Congress of Chinese Students in the USA" held in Chicago, tells me an award was given to Li Dan, in absentia, as being the broadcaster who made that courageous announcement on Radio Beijing. (bmm)

BHUTAN - Via a clipping from "Kuensel", Thimphu dated June 24, 1989: Fifty kilowatt radio station: A fifty kilowatt radio station under assistance from the Government of India and executed by the All India Radio is nearing completion. The turnkey project involves the transmission component and the building complex.

Under a joint project with the UNESCO/DANIDA, a four member project team led by Mr. Carlos Arnaldo of UNESCO and Mr. Knud Ebesen of DANIDA was in Thimphu this week to launch a project with the Bhutan Broadcasting Service which focuses on in-country training for programming with emphasis on programmes of an educational and cultural nature. The work on the UNESCO/DANIDA project was initiated some time ago.

The project team while in the country called the Minister for Communications and Tourism, Lyompo T. Tobgyel. Mr. Knud Ebesen presented a set of sound effects to the Minister as a gift from the Danish Radio.

The sound effects recorded on compact discs will be used by the national radio, BBS.

For Programmes in the English Service: The news in English at 8.15pm Mon-Sat, and at 3pm on Sunday. Sat: "About Town" - BBS producer Kunzang Thinley chats about wildlife with Dr. Bruce Bunting, the Asian Director of WWF. Sun: "Listener Choice" - the weekend music request show with your favourite songs for your favourite people. Mon: A selection of country & western songs in "Music for you in the country style". Tues: Experts from the international Labour Organisation talk about woman entrepreneurs. The first of a two-part programme. Wed: Take a mid-week music break with "Music Moves". Thu: "UN Calling Asia" looks at UN disaster relief and the work of UNIDO, and there's more about ESCAP too. Fri: "Music for your listening pleasure" to soothe you at the end of the working week. The Bhutan Broadcasting Service in the 49 metre band 6035 KHz and FM 96 for listeners in Thimphu. (Eric Bopp, CA) and via a FAX from Manosij Guha, based in Delhi, to Radio Nederland's Media Network Program on 8/11: AIR Engineers have just returned from Thimphu in Bhutan after installing a 50kW shortwave transmitter, which was a gift to the Bhutan Broadcasting Service by the government of India. The transmitter is allocated 9615kHz for use during the local daytime and 6035 at night. That may well improve audibility of the station elsewhere in Asia.

EGYPT - Radio Cairo English Service to North America: 02-0330 on 9475 and 9675. Programming: July to December 89: Daily 0202 Egyptian Music, 0215 News I, 0315 News 2, 0330 Close Down with National Anthem. Sunday: 0205 The Egyptian Woman, 0225 Current Events, 0235 Life in Egypt, 0245 Listeners Mail. Mon: 0205 Mail Call, 0225 Commentary, 0235 Development '89, 0245 Egyptian Song, 0250 Cultural Life in Egypt, 0300 Stars on Egyptian Land, 0310 Egyptian Song. Tue: 0205 The Lighter Side of the News, 0225 Spotlights on the Middle East, 0235 Tourism in Egypt, 0245 Egyptian Song, 0250 The Message of Islam, 0300 Modern Egyptian Songs.

Wed: 0205 Wednesday Talk, 0225 Commentary, 0235 Ancient Egyptian Civilization, 0245 Listeners Mail. Thu: 0205 This Week in History, 0225 Egypt's Foreign Policy, 0235 Story and Author, 0245 Scientific Life in Egypt, 0255 Cairo Magazine. Fri: 0205 Holy Koran and its Interpretation, 0225 Letter from Egypt, 0235 Readers Corner, 0245 Listeners Mail. Sat: 0205 Questions and Answers, 0225 The Palestine State, 0235 Stamp Collectors Club, 0245 Who's Who, 0255 Mike Visit, 0305 Architecture of the Pharaohs. Thank you for joining us, Mrs. Sahar Khalil, Director, English Service to N.A. (Rila, Radio Cairo)

FEDERAL REPUBLIC OF GERMANY - 11845 *2200-2228*, DW, New morning service in CC but bad QRM from co-channel Helsinki, latter intended for Australia on 8/7 (Bob Padula, Surrey Hills, Australia) 13780NF, *2100-2150*, DW, Julich, EE to Australia/Asia//9670(Trincomalee), 11785 (Trincomalee), 9765 Wertachtal on 7/19. Apparently introduced mid-July. (Bob Padula, Surrey Hills, Australia) 17770NF, DW-Julich + Wertachtal (combined) EE to Oceania, 0930 ex listed 17780, excellent level on 8/1 (Bob Padula, Surrey Hills, Australia) (See Sri Lanka)

FIJI ISLANDS - 12140USB, 0523, University of S. Pacific, Law Class, Professor was giving homework. Said he would meet with them again in 2 weeks from the Cook Islands. Then asked for any questions & a Solomon Islands student asked a question. At 0537, the Professor asked if students had their materials for the class. At return 0654 a W was explaining to the students her policy of turning in assignments. At 07 W thanked everyone for coming & 0701* on 8/2 (bmm)

GABON - Africa No. 1 will commission a fifth 500 kW transmitter next month. (Excerpts from WBI 8/4 which quoted AFP news agency, Paris in French 1615 gmt 24 July 89)

GUAM - KTRW Sked effective June 9th: Australia EE 0930-11 11805; China: Cantonese 1345-15 11830, 2045-22 11650; Hakka (Mon-Wed) & Swatow (Thu-Sun) 1330-1345 11830, 11650; Mandarin: 09-1630 11665, 09-12 15195, 0930-1030 11710, 12-14 9590, 12-15 9870, 15-1630 9820, 21-23 11665, 22-2245 15265. India: Assamese 1430-1445 11910; EE: (a) Tu-Su (b) Mon. 15-1635a & 15-1715 on 11650. Dogri (Mon-Tu), Hindi (Wed-Thu), Gamit (Fri-Sun) 1415-1430, Tibetan (Mon-Tu), Urdu (Wed), Nepali (Thu-Sun) 14-1415, Santali 1445-15, Tamil 15-1530 on 11910. Indonesia: Indo: 1030-12 15240, 22-2330 15420. Japan: JJ 11-12 11840, 12-1330 9785, 21-22 11840. Russia: RR 0830-09 11665. (Rolan Kunkel, CA)

INDIA - AIR External Service Updates effective 7/1: 21670D 10-11 EE to Australia. Dropped after a few days. 21555D(Test) 1215-13 CC, 13-1310 Kuoyu to China. Irregular as 21 MHz antenna not up yet; 15360D(Test 1515-1745 in Sinhala, Hindi, Gujarati to EAFr; 15110D(Test) 1215-13 CC, 13-1330 Kuoyu to China; 15050A(Change) 10-11 EE to NE Asia ex 15155; 11850D(Test) 1330-15 EE to SE Asia; 10330D(Delete) 13-15 Sinhala, Nepali. Carries home service to Port Blair now; 9525D(Test) 1330-15 EE to SE Asia and 1515-1745 Sinhala, Hindi, Gujarati to EAFr; 7160M 08-0830 Tamil to Sri Lanka(ex 07-0930); 4920M(Add) 12-1230 Tamil to Sri Lanka. The 2 x 500 kW HF transmitters installed near Bangalore may begin testing with reduced power during the Indian working hours(0430-1230 UTC) on the following allocated freqs: 6180, 7265, 9705, 11895, 15295, 17850. Transmitter Sites: A = Aligarh, B = Bombay, D = Delhi, M = Madras. (Manosij Guha, Jamshedpur, India and based in Delhi now) A FAX to Radio Nederland's "Media Network" Program on 8/10 by Manosij Guha based in Delhi with further updates: The two new 250kW shortwave transmitters at the All India Radio Station at Khampur, just outside Delhi, were indeed active for the first three weeks of July. They came on with Cantonese, Swahili, and Hindi programs amongst others. But although the transmitters are working, the new antennas are not yet finished. The tests were made using old antennas and mismatch problems were experienced with some tests on some 21 MHz channels. More tests can be expected shortly. Look for the General Overseas Service between 10 and 11 UTC on 21670 and 21555 and again 1330-15 on 9525 and 11840. Between 1515 and 1745 programs in Swahili, Hindi, and Gujarati are being tested on 9525 and 15360 kHz. For Shortwave Home Service transmitters at Port Blair and Leh both 10 kW and the external service 50 kW Shortwave transmitters at Gorakhpur are already to begin operation but are currently silent due to a blureaucratic rangle. They are awaiting frequencies to be granted by the Indian Minister of Communications. It is clear that All India Radio is finding it increasingly difficult to get frequencies from that department at short notice. 10330 kHz seems to be an

interesting channel to watch. It's used as a feeder frequency by All India Radio to reach remote transmitter sites. When talks over the Sri Lankan issue ran into problems earlier this year, 10330 kHz carried a feed in Sinhalese. It switched to an extended Nepali service when impasse arose with Nepal. Now it has started carrying All India Radio's Home Service News Hookup with a fixed beam to Port Blair.

"Massive plan" to improve AIR external service. All India Radio, Delhi in EE 1530 gmt 3 Aug 89. Text of report. All India Radio will take up a massive plan in the next two years to improve the quality and reception of its external service. The Minister of State for Information and Broadcasting, Mr. S. Krishna Kumar, now visiting Zimbabwe, told members of the Indian community in Harare that over 1,000 rupees will be spent on the programme. (WBI 8/11) 15020NF, 1309, AIR, Sinhala(listed). Strong sig. ex 15120//11620 8/1(bmm)

JAPAN - Radio Japan Sked 9/3-11/4: Regional Service: AA ME & NAfr: 1830-19 11915. Burmese SE Asia 1130-12 11875, 17820; Bengali S.Asia 15-1530 9535, 11935. CC Asia 1130-1230 7210, 9580, SE Asia, Asian Cont 1230-1330 11875, Asian Cont & SE Asia 1445-1545 7210, 9580, 11840. EE NA 01-0130 17775, 03-0330 N. Central & SAM, Hawaii 15195, 17825, 21610, Central Am 15325 (via French Guiana, Oceania 09-10 15270, 17890. FF Eur 0630-07 21690 (via Gabon), 21500, ME & NAfr 19-1930 11915, Eur 2030-21 11835. GG Eur 06-0630 21690 (via Gabon), 21500, 20-2030 11835. Hindi: S.Asia 1530-16 9535, 11935. Italian: Eur 0545-06 21690 (via Gabon), 21500, 2115-2130 11835. Indo: SE Asia 1015-1115 15300, 17820, 23-0000 11840, 17890. JJ N.Central & SAM & Hawaii 02-03 15195, 17825, 21610. KK Asian Cont 1030-1130 7210, 9580, 1330-1430 6080, 7210. Malay SE Asia 12-1230 11875, 17820. PP SAM 09-0930 9675 (via French Guiana), 11875. RR Eur 05-0530 21690 (via Gabon), 21500, Asia Cont. 1230-13 7210, 9580. Swedish Eur 0530-0545 21690 (via Gabon), 21500, 21-2115 11835. SS Central Am 0330-04 15325 (via French Guiana), SAM 15350 (via French Guiana), Central & SAM 15195, 17825, 21610 & 0930-10 SAM 21635 (via Gabon), 11875. Swahili E.Afr 1630-17 9535, 11935. Thai SE Asia 1330-14 11875, 15270, 17810. Urdu S.Asia 16-1630 9535, 11935. VV SE Asia 14-1430 11875, 15270, 17810, 2230-23 11840, 17890.

General Service: SE Asia 0000-0030 JJ, 01-02 EE, 02-03 JJ, 03-04 EE, 04-05 JJ, 05-06 EE, 06-07 JJ, 07-08 EE, 08-09 JJ, 09-10 EE 17810, 10-11 JJ, 11-12 EE, 12-14 JJ, 14-16 EE 11815, 16-17 JJ 17810, 15140, 11815, 17-18 EE 11815, 21-2130 EE 15230, 17810, 22-23 JJ 17810, 23-0000 17810, 21610. Asian Cont: 0000-0030 17835, 15195, 01-02 EE, 02-03 JJ 17835, 03-04 EE 17835, 17765, 04-05 JJ, 05-06 EE, 06-07 JJ, 07-08 EE, 08-09 JJ 17765, 10-11 JJ, 11-12 EE, 12-13 JJ on 11840, 16-17 JJ, 17-18 EE 9695, 20-2030 JJ, 21-2130 EE 11815, 22-23 JJ, 23-0000 EE 17765, 15195. S.Asia: 0000-0030 JJ, 01-02 EE, 02-03 JJ 17845. NA: 01-02 EE, 02-03 JJ on 5960 (via Sackville, Canada) (Note: from Oct. 30 (UTC Date), 02-03 JJ, 03-04 EE), 04-05 JJ, 05-06 EE, 06-07 JJ 15195, 17825, 10-11 JJ, 11-12 EE 6120 (via Sackville, Canada) (Note: from Oct. 29 11-12 EE, 12-13 JJ) 12-14 JJ, 14-16 EE 11865, 16-17 JJ 15195, 11865, 17-18 EE, 18-19 JJ, 19-1930 EE 11865, 20-2030 JJ 17825. Central Am: 02-03 JJ 15325 (via French Guiana). S.Am: 0000-0030 21635 (via Gabon), 02-03 15350 (via French Guiana), 08-09 JJ 9675 (via French Guiana) and 15390, 10-11 21635 (via Gabon), 22-23 9685 (via French Guiana). Oceania: 05-06 EE, 06-07 JJ, 07-08 EE, 08-09 JJ 15270, 18-19 JJ 11850, 19-1930 EE, 20-2030 JJ 11850, 15270, 21-2130 EE 17890, 15270. Eur, ME & Africa: 03-0330 EE, 04-05 JJ 7125 (via Gabon), 07-08 EE 21500, 21690 (via Gabon), 08-0830 JJ 21690 (via Gabon), 08-09 JJ 21500, 21640 (via Gabon), 15-16 EE, 16-17 JJ 21700 (via Gabon), 21-2130 EE 11765, 22-23 JJ, 23-0000 EE 11765 (Gabon) (Direct)

NICARAGUA - International service reactivated; English programme now at 0000 gmt. Monitoring research 3-5 Aug 89. Voice of Nicaragua was observed on 6100 kHz with a test transmission in EE from 0000-01 gmt on 4th and 5th August. According to announcements, the international service had been off the air for about two months for "reasons beyond our capacity to broadcast". When last heard, the English programme was broadcast from 0400-0600 gmt Tuesday-Sunday. Transmissions on 6100 kHz were first observed on 34d August with relays of Voice of Nicaragua's domestic service in Spanish from 2100-2356 gmt. (WBI 8/11) but WRTM NL No.5 1989 (7.10.1989) Ed. Tor-Henrik Ekblom says La Voz de Nicaragua - 5948.5 Program: 1250-2315; EE 0000-0400; SS 0400-06 (WVH) (via DX'ERS Calling, The Monthly Magazine of DX Australia, 8/89)

PAPUA NEW GUINEA - Eric Swedberg received a QSL Card (He QSL'd them as Radio West Sepik) from R. Sandaun, Vanimo in Sandaun Province. V/S Gabriel Deckwalen. Address: R. Sandaun; PO Box 37, Vanimo, Sandaun Province, Papua

New Guinea. (So apparently they have changed their name).

SCOTLAND - 15042v, 0046, Weekend Music Radio, EE, Scottish tune, M w/ID at 0049. Noisy conditions made for difficult listening. At 0400 M was saying hello to listeners. At 0403 ID and said broadcasting from Scotland. At 0410-0414 M was giving what sounded like a roundup of the radio scene in Ireland. Still here past 05 but real noisy conditions. Poor on 8/6. (bmm)

SEYCHELLES - FEBA Sked: 0000-0030 Bengali, 0030-0045 Hindi, 0045-01 Hindi (except Tue), 0045-01 Marathi (Tue) on 1275; 0055-0115 Urdu (not Wed,Thu) 9565; 01-0130 Telugu 7275; 0115-0130 Punjabi(not Wed) 9565; 0130-02 Tamil 7275; 0130-0215 Urdu 11895; 0230-0245 Pashto(not Thu-Sat) 11895; 0215-0230 Urdu (Sun,Tue) 11895; 0215-0230 Sindhi (Thu-Sat) 11895; 03-0330 Persian ME 15300; 0310-04 Swahili Afr 11810, 9610; 0345-0430 AA ME 15325; 04-0430 Amharic (not Tue-Thu) Afr 15250; 0430-0445 AA(Sun,Fri) ME 15325; 0430-0505 EE (Mon, Sun) 17780(Monday only), 15325; 0445-05 Arabic(Fri) ME 15325; 0430-05 Oromo (Sat&Sun) Af 15250; 05-0530 Tigrigna(Sat&Sun) Af 15250; 0730-0820 EE (Sun) Asia including 0730-0745 "DX Postbag" Asia 17780, 15275; 0915-0930 FF, 0930-0945 FF (not Tue,Wed), 0945-10 FF(not Tue-Thu) Afr 15430; 10-1015 Malagasy(Sat) Af 15430; 11-1130 AA ME 15415; 1130-1145 AA(not Sun) ME 15415; 1225-1240 Nepalese 15325; 1255-1330 Malayalam 11895; 13-1330 Tamil 15325; 1330-1345 Kannada 15325; 14-15 Hindi 15325, 11760; 1415-1430 Sinhalese 9590; 1430-1445 Sinhalese (Sun) 9590; 1500-1610 11760, 9590; 1610-1625 EE (not Sun) 9590; 1615-17 Swahili Af 11860, 9770; 1630-1730 Malagasy Af 11930; 17-1730 Oromo Af 11860; 17-1730 Somali Af 11810, 9770; 1730-1805 Amharic 11860; 1730-1805 EE 11810; 1805-1825 EE (Fri,Sat) Af 11810; 1805-1835 Amharic(Sun,Mon) Af 11860; 1805-1835 Tigrigna(not Sun,Mon) Af 11860; 1830-1845 PP Af 6065; 1835-1850 FF Af 11760; 1845-19 PP (not Mon,Wed,Thu) Af 6065; 1850-1905 FF(not Tue-Thu) Af 11760; 19-1950 AA ME 11915; 1950-20 AA(not Mon-Wed) ME 11915. (WBI 8/11 & thanks to Rolan Kunkel, CA for sending published sked)

SOUTH AFRICA - 11855, *0521, Radio 5, EE, M w/ID into ezl music 7/27 (bmm)

SRI LANKA - 15105NF, 1150, DW via Trincomalee, EE, M w/ID "This is DW Relay Station Trincomalee, Sri Lanka" then IS and 1150* on 17/21 (bmm)

TAIWAN - New Star Broadcasting - First noted in April 1977. This station is presumed from Taiwan with high possibility. ID in Chinese: "Zhelishi Xingxing guangbo diantai." (romanized in pinyin method). "Xing xing" has many interpretations to translate. (Gives me the characters in Chinese). All has same pronunciation, so be careful. However it is natural interpretation (New Star) compared to others. Everybody can't decide it. This station broadcasts #s in Chinese in its 4 different services. The 1st service: 11430. 2nd service: 15388. 3rd service: 9725. 4th service: 8300. You may hear its ID on 8300 as "Zhelishi Xingxing guangbo diantai di si tai". (Tetsuya Kondo, Yokohama, Japan). Note: Tetsuya lets me know that further details are to follow. (bmm)

TIME SIGNAL - 5000, 1019 approximately, YVTO, Caracas, Venezuela ex 6100 on 8/11. (bmm)

CLANDESTINE - 17533, 2336, V. of Democratic Kampuchea reactivated, Cambodian, W or M w/talk. Very distorted on 7/29. On 7/30 at 2335, W in Cambodian not so distorted. Sign on is *2330. (bmm) Radio SNM - Observations on new Somali opposition radio - Monitoring research 27-28 Jul 89. On 27th and 28th July, a radio station broadcasting in Somali was observed on 6470 kHz at 1500-1700 gmt. The station identified itself as "Radio SNM, the voice of the Somali National Movement". The programme, which was hostile to the Somali Barre government, consisted of recitations from the Koran and other religious features, Somali music, commentaries and battle reports. A schedule will be issued with WBI in due course. (WBI 8/4) & Station also identifies itself as "Radio Halgan" and "Radio Hargeisa" Monitoring research 2-3 Aug 89. On 2nd August, this radio station was found to be using 6516 kHz instead of 6470 for its 1500-1700 gmt broadcast. During the transmission the station referred to itself as "Radio Hargeisa". Radio Hargeisa is a regional station in Somalia which operates on 7120 kHz. On 3rd August, however, in what was possibly a slip of the tongue, the closing announcement stated "Radio Halgan, Radio SNM, the voice of the Somali National Movement and the Democratic Front for the Salvation of Somalia, broadcast from transmitters in Addis Ababa, Ethiopia, and was last heard on 6th April 1988. Note: BBC Monitoring Service items designated WBI for World Broadcasting Info are copyright. 735

Bmm



WHAT'S ON

ENGLISH BROADCAST TO NORTH AMERICA



Daniel Sampson P. O. Box 31 Independence, WI 54747-0031

UTC Time	Station	Notes	Frequencies
0000-0030	BBC, U.K.	---	12095; 9915; 9590S; 7325; 6175S
0000-0030	kol Israel	---	15640; 15615; 11605
0000-0030	R. Canada Int'l	Tu-Sa	9755; 5960
0000-0030	R. Korea, S. Korea	---	15575
0000-0030	RBI, G. D. R.	---	11890; 6080
0000-0050	R. Pyongyang, N.K.	---	15160; 15115
0000-0100	KUSW, U.S.A.	---	15580
0000-0100	R. Beijing, China	---	17855; 17715Mi; 15135
0000-0100	R. Canada Int'l	Su-M	9755; 5960
0000-0100	R. Moscow, U.S.S.R.	NAm svce	21470; 17840; 17700; 17605; 15425; 12050; 11750Bu; 11730; 9865; 9720Bu; 9700; 9600Cu; 7290; 7165
0000-0100	WYFR, U.S.A.	---	17612.5; 9680; 9660
0000-0200	R. Australia	---	17795; 15320
0000-0200	R. Havana Cuba	---	11820
0000-0200	REB, Spain	---	15110; 9630
0000-0200	WHRI, U.S.A.	---	9495; 7365
0000-0200	WSHB, U.S.A.	---	13760; 7400
0000-0300	WRNO, U.S.A.	---	7355
0000-0610	CBCNQSW, Canada	not all EE	9625; 6195
0000-2400	CFCX, Canada	---	6005
0000-2400	CFRX, Canada	---	6070
0000-2400	CFVP, Canada	---	6030
0000-2400	CHNX, Canada	---	6130
0000-2400	CKFX, Canada	---	6080
0030-0100	R. Budapest, Hung.	---	15160; 11910; 9835; 9585; 9520; 6110
0030-0125	R. Nederland	---	15315B; 6165B; 6020
0030-0130	HCB, Ecuador	---	15250
0030-0230	BBC, U.K.	---	12095; 9915; 9590By; 7325; 6175S
0035-0500	HCB, Ecuador	---	15155; 11775; 9745
0050-0110	Vatican R.	---	15180; 11780; 9605
0100-0120	RAI, Italy	---	11800; 9575
0100-0130	kol Israel	---	15640; 15615; 11605
0100-0130	R. Japan	Reg svce	17825
0100-0145	R. Yugoslavia	---	15105; 11735
0100-0145	RBI, G. D. R.	---	11890; 6080
0100-0150	DW, F.R.G.	---	15105Ma; 11865Ma; 9735Ma; 9565Mt; 6145; 6085Ma; 6040An
0100-0157	R. Prague, Czech.	---	15540; 13715; 11990; 9625; 9540; 7345; 6055; 5930
0100-0200	R. Japan	Gen svce	5960S
0100-0200	R. Moscow, U.S.S.R.	NAm svce	21470; 17840; 17700; 17605; 15425; 12050; 11750Bu; 11730; 9865; 9720Bu; 9700; 9600Cu; 7290; 7165
0100-0200	WYFR, U.S.A.	---	15440; 5950
0100-0500	KUSW, U.S.A.	---	11695
0130-0140	V. of Greece	---	11645; 9420; 9395
0130-0145	R. Budapest, Hung.	Tu-W, F-Sa	15160; 11910; 9835; 9585; 9520; 6110
0130-0200	R. Austria Int'l	---	13730; 9875
0130-0330	R. Baghdad, Iraq	---	11945; 9515
0145-0230	RBI, G. D. R.	---	15125; 11890; 11785; 6080
0200-0230	R. Kiev, U.S.S.R.	---	17690; 17665; 15180; 11675; 9800; 9610;
0200-0230	SRI, Switzerland	---	17730Br; 12035; 9885; 9725; 6135; 6095
0200-0250	R. Nacional, Brazil	---	11745
0200-0300	R. Argentina Ext.	---	11710; 9690
0200-0300	R. Bucharest, Rom.	---	11940; 11830; 9570; 9510; 6155; 5990
0200-0300	R. Moscow, U.S.S.R.	NAm svce	21470; 17840; 17700; 17605; 15425; 12050; 11730; 9865; 9720Bu; 9700; 9600Cu; 7290; 7165
0200-0300	R. RSA, S. Afr.	---	9615; 9580; 6010
0200-0300	VDFC, Taiwan	---	15345; 9680Wy; 5985Wy
0200-0330	R. Cairo, Egypt	---	9675; 9475
0200-0400	R. Australia	---	17795

RELAYS--An-Antigua, B-Bonaire, Br-Brazil, Bu-Bulgaria, By-Bethany, Cu-Havana, F-Singapore, Gu-French Guiana, Ma-Malta, Mi-Mali, Mt-Montserrat, S-Sackville, Sp-Spain, Wy-WYFR

UTC Time	Station	Notes	Frequencies
0200-0450	R. Havana Cuba	---	11820; 9710
0200-0600	WHRI, U.S.A.	---	9495; 7365
0200-0600	WSHB, U.S.A.	---	13760; 9455
0200-0600	WYFR, U.S.A.	---	9505; 5950
0230-0257	R. Finland	---	15185; 11755
0230-0300	BBC, U.K.	---	12095; 9915; 9660By; 7325; 6175S
0230-0300	R. Portugal	Tu-Sa	9705; 9680
0230-0300	R. Tirana, Albania	---	11825; 9760
0250-0300	R. Yerevan, U.S.S.R.	---	15455; 15180; 13645
0300-0330	BBC, U.K.	---	12095; 9915; 9660By; 7325; 6175S; 5975An
0300-0330	R. Japan	Reg svce	21610; 17825; 15325Gu; 15195
0300-0330	R. Sweden	---	11705; 9695
0300-0345	RBI, G.D.R.	---	15125; 11785
0300-0350	DW, F.R.G.	---	15205Ma; 11810; 9605Ma; 9545Mt; 6085S
0300-0350	V. of Turkey	---	9445
0300-0357	R. Prague, Czech.	---	15540; 13715; 11990; 9625; 9540; 7345; 6055; 5930
0300-0400	R. Beijing, China	---	17855; 15130Mi; 11715Mi; 9690Sp
0300-0400	R. Earth, U.S.A.	Tu	9495; 7365
0300-0400	R. Moscow, U.S.S.R.	NAm svce	17840; 17665; 17605; 15455; 15425; 15180; 12050; 12010; 12000
0300-0400	R. Moscow, U.S.S.R.	Wld svce	9720; 7290; 7165
0300-0400	R. Sofia, Bulgaria	---	15290; 11765; 11750
0300-0400	VOFC, Taiwan	---	15345; 9680Wy; 5985Wy
0300-0430	TWR-Bonaire, N. Ant.	Tu-Sa	11930; 9535
0300-0530	TWR-Bonaire, N. Ant.	Su-M	11930; 9535
0300-0600	WRNO, U.S.A.	---	6185
0310-0327	Red Cross, Switz.	---	12035; 9885; 9725; 6135 -- Aug 29, Sep 1, Sep 26, Sep 29, Oct 31, Nov 3, Nov 28, Dec 1
0310-0330	Vatican R.	---	11725
0330-0400	R. Dubai, U.A.E.	---	17775; 15435; 11940
0330-0400	R. Tirana, Albania	---	11825; 9760
0330-0425	R. Nederland	---	9590B; 6165B
0330-0430	BBC, U.K.	---	9915; 5975An
0340-0350	V. of Greece	---	9420; 9395; 7430
0345-0430	RBI, G.D.R.	---	15125; 11785
0400-0415	kol Israel	---	17575; 15640; 11585
0400-0430	R. Bucharest, Rom.	---	11940; 11830; 9570; 9510; 6155; 5990
0400-0430	SRI, Switzerland	---	12035; 9885; 9725; 6135
0400-0500	R. Argentina Ext.	---	11710; 9690
0400-0500	R. Beijing, China	---	15195; 11840S; 11685Gu
0400-0500	R. Moscow, U.S.S.R.	NAm svce	15455; 15425; 15180; 13645; 13605; 12050; 12030; 12010; 12000
0400-0500	R. Moscow, U.S.S.R.	Wld svce	7290; 7165
0430-0500	R. Tirana, Albania	---	11835; 9480
0430-0530	BBC, U.K.	---	9915; 9510An; 5975An
0450-0600	R. Havana Cuba	---	11820
0500-0550	DW, F.R.G.	---	11845; 11705; 9700; 9670; 6130; 5960
0500-0600	R. Japan	Gen svce	17825; 15195
0500-0600	R. Moscow, U.S.S.R.	NAm svce	15455; 13645; 13605; 12050; 12040; 12030; 12010; 12000; 9580
0500-0600	REE, Spain	---	15110
0500-0700	HCJB, Ecuador	---	11775; 9720; 6230
0500-0700	KUSW, U.S.A.	Su	6175
0530-0545	BBC, U.K.	---	9510An; 5975An
0530-0600	R. Austria Int'l	---	6015S
0545-0730	BBC, U.K.	---	9640An; 5975An
0600-0700	R. Korea, S. Korea	---	11830; 9570
0600-0700	R. Moscow, U.S.S.R.	NAm svce	13645; 13605; 12050; 12040; 12030; 12010; 12000; 9580
0600-0800	R. Havana Cuba	---	11835
0600-0800	WHRI, U.S.A.	---	9620; 9495
0600-0800	WSHB, U.S.A.	---	13760; 11980; 9455
0600-0800	WYFR, U.S.A.	---	6065; 5950
0600-1200	WRNO, U.S.A.	Su	6185
0700-0800	VOFC, Taiwan	---	5985Wy
0700-1100	KUSW, U.S.A.	Su	6135
0730-0815	BBC, U.K.	---	9640F
0800-0830	R. Norway Int'l	Su	15165

RELAYS--An-Antigua, B-Bonaire, Br-Brazil, Bu-Bulgaria, By-Bethany, Cu-Havana, F-Singapore, Gu-French Guiana, Ma-Malta, Mi-Mali, Mt-Montserrat, S-Sackville, Sp-Spain, Wy-WYFR

UTC Time	Station	Notes	Frequencies
0800-1000	WSHB, U.S.A.	---	17855; 9455
0800-1100	WHRI, U.S.A.	---	7355
0800-1130	R. Australia	---	9580
0900-0945	RBI, G.D.R.	---	11890
1000-1030	kol Israel	---	21760; 17578; 11585
1000-1100	R. Moscow, U.S.S.R.	Wld svce	17595; 15585; 9600Cu
1000-1200	WSHB, U.S.A.	---	9495; 9455
1055-1257	TWR-Bonaire, N. Ant.	M-F	15345; 11815
1055-1332	TWR-Bonaire, N. Ant.	Su	15345; 11815
1055-1400	TWR-Bonaire, N. Ant.	Sa	15345; 11815
1100-1125	R. Finland	M-F	21550; 15400
1100-1150	R. Pyongyang, N.K.	---	11735; 9977; 9600
1100-1200	BBC, U.K.	---	11775An; 9740F; 9515S; 5965S
1100-1200	R. Japan	Gen svce	6120S
1100-1300	R. Moscow, U.S.S.R.	Wld svce	17595; 15585; 15135; 9600Cu
1100-1400	WHRI, U.S.A.	---	11790; 9465
1100-1600	KUSW, U.S.A.	Su	9850
1130-1200	HCJB, Ecuador	---	11740
1130-1200	R. Austria Int'l	---	17870
1130-1400	R. Australia	---	9580; 6060
1200-1225	R. Finland	M-F	21550; 15400
1200-1230	R. Norway Int'l	Su	15165
1200-1230	R. Yugoslavia	---	17740
1200-1300	R. Canada Int'l	M-F	17820; 11855; 9635
1200-1300	WYFR, U.S.A.	---	15375; 5950
1200-1330	BBC, U.K.	---	11775An; 9740F; 9515S
1200-1400	CBCNQSWS, Canada	not all EE	9625; 6065
1200-1400	WRNO, U.S.A.	Su	9715
1200-1400	WSHB, U.S.A.	---	11930; 9495
1200-1600	HCJB, Ecuador	---	17890; 15115; 11740
1230-1255	BRT, Belgium	M-Sa	17560
1235-1245	V. of Greece	---	17550; 15630; 11645
1245-1310	R. France Int'l	---	17720; 15365
1300-1325	R. Finland	M-F	21550; 15400
1300-1330	R. Yugoslavia	---	15325
1300-1350	R. Pyongyang, N.K.	---	11735; 11335; 9600
1300-1400	R. Beijing, China	---	11855
1300-1400	R. Finland	Sa-Su	21550; 15400
1300-1400	R. Moscow, U.S.S.R.	Wld svce	17595; 15585; 15135; 11840Cu; 9895; 9755; 9655; 9640; 7265
1300-1600	R. Canada Int'l	Su	11955
1300-1600	WYFR, U.S.A.	---	15375; 13695; 11830; 5950
1330-1345	BBC, U.K.	Su	11775An; 9515S
1330-1615	BBC, U.K.	---	9740F
1400-1500	R. Australia	---	9580
1400-1500	R. Beijing, China	---	11855
1400-1500	R. Korea, S.Korea	---	15575; 9750
1400-1500	R. Moscow, U.S.S.R.	Wld svce	17810; 15585; 12010; 11840Cu; 9895; 9755; 9655; 9640; 7265
1400-1500	WHRI, U.S.A.	---	15105; 9465
1400-1500	WRNO, U.S.A.	Su	11965
1400-1600	R. Japan	Gen svce	11865
1400-1600	R. RSA, S. Afr.	---	21535
1400-1600	WSHB, U.S.A.	---	17555; 13760
1400-2330	CBCNQSWS, Canada	not all EE	11720; 9625
1500-1600	BBC, U.K.	Sa-Su	15260S; 11775An
1500-1600	R. Moscow, U.S.S.R.	Wld svce	15585; 15135; 12010; 11840Cu; 9895; 9755; 9655; 9640; 7265
1500-1600	WHRI, U.S.A.	---	21840; 15105; 9465
1500-1700	WRNO, U.S.A.	---	11965
1530-1600	R. Sweden	---	21610; 17880
1535-1545	V. of Greece	---	17550; 15630; 11645
1600-1630	HCJB, Ecuador	---	17890; 15115
1600-1630	R. Norway Int'l	Su	21705; 17780
1600-1700	R. Moscow, U.S.S.R.	Wld svce	15585; 15135; 12050; 12010; 11995; 11840Cu; 9655; 9640; 7265
1600-1700	WHRI, U.S.A.	---	21840; 15105
1600-1745	BBC, U.K.	---	15260S; 11775An
1600-2200	KUSW, U.S.A.	---	15650

RELAYS--An-Antigua, B-Bonaire, Br-Brazil, Bu-Bulgaria, By-Bethany, Cu-Havana, F-Singapore, Gu-French Guiana, Ma-Malta, Mi-Mali, Mt-Montserrat, S-Sackville, Sp-Spain, Wy-WYFR

UTC Time	Station	Notes	Frequencies
1600-2300	WYFR, U.S.A.	---	15375; 15170; 13695; 11830
1700-1715	kol Israel	---	11585
1700-1730	R. Norway Int'l	Su	17840
1700-1800	R. Japan	Gen svce	11865
1700-1800	R. Moscow, U.S.S.R.	Wld svce	15585; 15425; 15135; 13605; 12050; 12010; 11995; 11840Cu; 9655
1700-1800	WHRI, U.S.A.	---	15105; 13760
1700-2100	WRNO, U.S.A.	---	15420
1800-1900	R. Moscow, U.S.S.R.	Wld svce	17605; 15425; 15135; 13605; 12050; 12010; 11995; 11840Cu; 9865
1800-2100	R. Kuwait	---	11665
1800-2400	WHRI, U.S.A.	---	17830; 13760
1900-1930	kol Israel	---	17590; 15640; 11605
1900-1930	R. Afghanistan	---	9635; 6020; 4760
1900-1930	R. Japan	Gen svce	11865
1900-2000	R. Moscow, U.S.S.R.	Wld svce	17605; 15425; 15135; 13605; 12050; 12010; 11995; 11840Cu
2000-2200	R. Moscow, U.S.S.R.	Wld svce	17840; 17700; 17605; 15425; 15405; 12050; 11840Cu; 9865; 9735; 9665
2000-2200	WSHE, U.S.A.	---	17555; 15610
2005-2105	R. Damascus, Syria	---	15095
2100-2125	BRT, Belgium	---	9925
2100-2145	RBI, G.D.R.	---	9730
2100-2300	WRNO, U.S.A.	---	13720
2105-2205	R. Damascus, Syria	---	17710; 12085
2130-2200	kol Israel	---	17630; 17575; 15640; 11605
2145-2230	RBI, G.D.R.	---	9730
2200-2230	R. Canada Int'l	---	11905; 9755; 5960
2200-2230	R. Vilnius, U.S.S.R.	---	17665; 15455; 15420; 9860; 9765; 7400; 6100
2200-2245	R. Yugoslavia	---	9660
2200-2250	V. of Turkey	---	9445
2200-2300	R. Argentina Ext.	---	11710; 9690
2200-2300	R. Moscow, U.S.S.R.	NAm svce	17840; 17700; 17605; 15425; 15405; 12050; 11750Bu; 11730; 9865; 9765; 9720Bu; 7165
2200-2400	BBC, U.K.	---	12095; 9915; 9590S; 7325; 6175S
2200-2400	KUSW, U.S.A.	---	15580
2200-2400	R. Australia	---	17795; 15320
2200-2400	V. of UAE	---	13605; 11985; 9595
2200-2400	WSHE, U.S.A.	---	17555; 9465
2300-2330	kol Israel	---	15640; 15615; 11605
2300-2330	R. Norway Int'l	Su	11785
2300-2350	R. Pyongyang, N.K.	---	13650; 11735
2300-2400	R. Moscow, U.S.S.R.	NAm svce	21470; 17840; 17700; 17605; 15425; 12050; 11750Bu; 11730; 9865; 9765; 9720Bu; 7165
2300-2400	R. Sofia, Bulgaria	---	15110; 11660
2300-2400	WRNO, U.S.A.	---	13720; alt. 7355
2300-2400	WYFR, U.S.A.	---	17612.5; 9680; 9660
2330-2355	BRT, Belgium	---	9925
2330-2400	CBCNQSW, Canada	not all BE	9625; 6195
2330-2400	R. Budapest, Hung.	M-Sa	15160; 11910; 9835; 9585; 9520; 6110
2330-2400	R. Canada Int'l	---	9755; 5960
2330-2400	R. Kiev, U.S.S.R.	---	17690; 17665; 15180; 11675; 9800; 9610
2330-2400	R. Korea, S. Korea	---	15575
2330-2400	R. Tirana, Albania	---	11825; 9760; 6085
2345-2400	RBI, G.D.R.	---	11890; 6080

RELAYS--An-Antigua, B-Bonaire, Br-Brazil, Bu-Bulgaria, By-Bethany, Cu-Havana, F-Singapore, Gu-French Guiana, Ma-Malta, Mi-Mali, Mt-Montserrat, S-Sackville, Sp-Spain, Wy-WYFR

On September 24 the broadcast from the following stations will be one hour later: Radio Sofia, Radio Berlin International, Radio Budapest, Radio Kiev, Radio Vilnius, Radio Finland, Radio Yerevan, Radio Moscow and some broadcast from BRT. Other stations that will be one hour later on either the same date or later dates include Radio Baghdad, kol Israel, Voice of Turkey, Radio Korea and Radio Canada International changes the times of it's broadcast to the U.S.A. when we observe Daytime "Shifting" Time.

Western Hemisphere
loggings by the 12th of the month to:
Thomas F. Sable
University of Scranton
Scranton, PA 18510

ALASKA **KNLS**

11910 1900 RR; "Amerikanskaya muzika" top 40 mx (455 7/16 Kunkel-CA)
11945 1840 St. George and the Dragon comedy (353 7/8 Kunkel-CA)
11965 2130 CC; YL and mx, ID (455 8/6 Kunkel-CA)

ANTIGUA***Deutsche Welle relay ***BBC relay***

6175 2350 **BBC** EE; Jolly Good Show, Tom Petty song (444 7/29 Brown-IL)

BRAZIL**Swiss Radio International relay**

4935 2358 **R Capixaba, Vitoria** Drama, ads, ID, talk by OMs (242
7/18 D'Angelo-PA)
17730 0205 **SRI** EE; nx: Bush visit to Netherlands; Dateline (242
7/17 Brown-IL)

CANADA

6070 0212 **CFRX** Ad, financial report, stocks rise, mx (333 7/28
Brown-IL)
6120 1130 **RJ** "Cross Currents" letters about worldwide pollution
(555 7/16 Fraser-MA)
9625 0003 **CBC** Abortion Question in Canada, ID, interest rates
fall (333 7/27 Brown-IL)
9755 0125 **RCI** SWLs' Digest: Africa Radio; no more RCI in GG, but
will start CC and AA service (444 7/29 Brown-IL)
15325 2000 **RCI** EE/FF; ID into unknown language (322 7/30 Ehly-IA)
17795 1429 **RCI** FF; IS, signon, nx for Eastern Europe (232 8/7
Westenhaver-QU)

CLANDESTINE

9940 2359 **V C.I.D.** SS; SS pop mx, and nx (433 8/3 Cichorek-NJ)

COLOMBIA**CARACOL**

5075 0015 **CC** ad for Coca Cola, nx (444 7/18 Rogers-MA)

COSTA RICA

5044 0506 **R Impacto** Latin dance mx, ID, more dance (232 8/6
Westenhaver-QU)

CUBA**Radio Habana Cuba**

9710 0219 **RHC** EE; Mailbag, ID, address (433 7/30 Brown-IL)
11820 0202**RHC** EE; ID, nx: Nicaragua ceasefire extended,
Jamaican corruption (444 8/2 Cichorek-NJ)
11835 0730 **RHC** EE; IS, ID, address, nx (323 7/27 Famularo-JP)
15155 1035 **RHC** Om IDs, talk on baseball (222 7/13 Famularo-JP)
15285 1200 **RHC** Panorama with OM (455 8/6 Kunkel-CA)
15340 1145 **RHC** Call-in program wit YL announcer, mx (354 8/6
Kunkel-CA)
17710 1929 **RHC** IS and ID (333 7/7 Kunkel-CA)

ECUADOR

4870 0320 **R Rio Amazonas** LA mx, restrained announcer, ID, TC
(343 7/16 Rogers-MA)
4960 0037 **R Federacion** Latin vocals and instrumentals with some
talk until signoff at 0100 with martial mx (232 7/21
D'Angelo-PA)
5040 0105 **V Upano** LA mx, OM DJ, freqs, TC, ID (322 7/22
Rogers-MA)
5059 0255 **R Nacional Progreso** LA vocals with Andean flavor, ID
(333 7/16 Rogers-MA)
9610 0712 **HCJB** EE; "Shalom" the use of anesthetics (454 7/20
Leader-IR)

Ecuador (cont.)

- 9745 0200 **HCJB** EE; Musica del Ecuador (454 7/11 Meinhardt-IL)
15115 1257 **HCJB** EE; "Happiness IS", ID, Time pips, "Morning in the Mountains" (323 7/14 Famularo-JP) DX Partyline: ANARC Convention (333 7/29 Brown-IL)
15270 0033 **HCJB** Passport: Ecuadorian mx, report on blind artist, ID (232 7/21 Brown-IL)

GUATAMALA

- 4835 0115 **R Tezultan** religious program, mx ID (343 7/17 Rogers-MA)

NETHERLANDS ANTILLES**Radio Netherlands relay**TransWorld Radio

- 9535 0300**TWR** EE; W. Indies ministers attend Singapore conference 555 7/17 Yarbrough-NC)
15315 0030 **RN** Nx: French bicentennial; Media Network (444 7/13 Brown-IL)

PARAGUAY**Radio Nacional**

- 9735 0815 **RN** vocals, guitar mx, OM with TCs, ID (333 7/9 Famularo-JP)

PERU

- 4996 0345 **R Andina** Andean mx, ID (333 7/16 Rogers-MA)

PIRATES**Piratehood

- 7355 0340 **WART** EE; played Joe Cocker and faded. QSL info anyone? (232 7/31 D'Angelo-PA) (Bronowicz-NJ)
7414 0249 **Free Radio One** Discussion of a taxpayer survey (222 6/13 Bronowicz-NJ)
7415 0201 **KRUD** EE; spoof of ads, drug-oriented vocals, Mr. Roachclip, Beaver Falls maildrop (333 7/20 D'Angelo-PA)+1
7415 0351 **R Clandestine** EE; Beatles, Paul Revere and the Raiders mx; ID as part of the Pirate Radio Network; maildrop Kingston, NY (454 7/17 D'Angelo-PA)(Bronowicz-NJ) (544 8/5 Westenhaver-QU)
7480 0537 **WBRI** ID and mx (333 7/29 Bronowicz-NJ)

UNITED STATES OF AMERICA**Voice of Free China relay**Voice of America**Radio Marti**BBC relay**

- 5950 0302 **VOFC** Comments on arrest of Taiwan reporter (444 7/9 Levison-PA)
6185 0327 **WRNO** World of Radio #500 (444 7/21 Bronowicz-NJ)
7255 0115 **WRNO** Ads, Cruisin' America (555 7/31 Brown-IL)
7400 0000 **WSHB** Trumpet IS, ID by OM with world news (534 7/11 Fraser-MA)
7520 0311**WWCR** Point of View-talk show (444 7/21 Bronowicz-NJ)
9455 0724 **WSHB** report on Los Lobos rock group, ID, nx, Letterbox (322 7/13 Famularo-JP)
11930 1940 **RM** SS; Drugs and Cuban politics (444 7/30 Ehly-IA)
11965 1700 **WRNO** ID, switch to other frequency instruction (444 7/30 Ehly-IA)
15215 0007 **VOA** Report on the Chinese crackdown, Cambodian neutrality (444 7/14 Brown-IL)
15215 1241 **WYFR** Good Morning, hymn, religious talk, TCs (333 7/20 Famularo-JP)
15580 1954 **VOA** ID, percussive African mx (333 7/30 Ehly-IA)
17555 1404**WCNS** World nx, ID, into SS talk (232 7/14 Famularo-JP)
17735 0045 **KVOH** ad: pray for KVOH, address (444 7/31 Brown-IL)

Possible expansion plans in the future for KNLS, according to Glenn Hauser and others. Future plans are to expand studios and transmitter sites, possibly including some in the lower 48.

Have a good Labor Day weekend and beginning of school. Until next month...

Bye for now,

T.F.S.

EUROPE

Daniel Sampson
 P. O. Box 31
 Independence, WI 54747-0031



Deadline: 12th
 Times/Dates: UTC
 Frequencies: KHz

EUROPE

BOARDING PASS
 Row
 Seat Window Center Aisle
 Flight#
 Destination: _____

This month you'll notice this column looks a little different. I'm making use of a word processing program called PFS: First Publisher and I'm working on getting some of the DX news back into the column.

ALBANIA *Radio Tirana*

- 5975 0530 *RTRR*; ID "Govorit Tirana," ment of Albania, reference to AIDS Conf. (544 6/10 Dillon-Greece)
 9375 2031 *RTGG*; OM giving freq (332 6/28 Bishop-NY)
 9480 2141 *RTEE*; disc. of literary figures, Traveling Through Albania (333 8/2 Cichorek-NJ)
 15115 *1300 *RT* unid lang; weak signal under HCJB w/ definite Tirana IS, tk, mx (pr-unuseable 7/14 Famularo-Japan)

AUSTRIA *Radio Austria International*

- 5945 1750 *RA/GG*; pop mx, ID in several langs, sked, cl mx, nx @ 1850 (433 7/15 Dillon-Greece)
 15450 1348 *RA/EE*; intvw/discussion on computers & education, ID, co-channel QRM (fr-gd 7/14 Famularo-Japan)
 17870 1153 *RA/EE*; Austrian beer exports are up 10% this year over last year's figures, Moscow in CC co-channel QRM (433 7/28 Westenhaver-QU)

BELGIUM *Belgische Radio en Televisie*

- 9925 2340 *BRTEE*; Belgium Today, new musical season begins, rpt on how to cook mussels (444 7/12 Brown-IL) 2130 FF; news (444 7/16 Mehling-MA) 2345 EE; mx, tk on Belgium, Afr svce (111 7/21 Miller-CA) *2330 EE; domestic nx, Radio World, letters from listeners (454 6/3 Card-RI) 2342 EE; rpt on prescription drug industry in Belgium (545 8/3 Cichorek-NJ)
 17555 1230 *BRTEE*; Brussels Calling, water shortage in Belgium (555 7/28 Verbrought-NC)
 25645t 1348 *RTBFFF*; spts magazine pgm w/ live coverage, mx fills, 1400 nx w/ some Belgium items, seemingly local, no ID heard, maybe HS relay? (353 7/9 Westenhaver-QU)

BULGARIA *Radio Sofia*

- 9700 1450 *RSSlavic*; verb conjugations, covered partly by VOA in EE @ 1500 (333 7/15 (333 7/15 Dillon-Greece)
 11660 2322 *RSEE*; ID by VL, Bulgarian folk mx (333 8/3 Cichorek-NJ)
 15290 0302 *RSEE*; nx, human rights abuse in Turkey, Noriega should step down according to the OAS, rock mx, comtry on Cyprus (343 7/22 djs-WI)
 15310 1516 *RSEE*; tk on Bulgaria, gave a P.O. QTH, Afr svce (444 7/30 Miller-CA)

CZECHOSLOVAKIA *Radio Prague*

- 5930 0310 *RPEE*; dam project between Czech. & Hungary, spts (343 5/13 Dillon-Greece)
 11990 0318 *RPEE*; tk on cooperation, ment Cuba, imperialism, mx (433 7/20 Miller-CA)
 21705 0850 *RPEE*; after Norway s/off, tk on French Revolution of 1789, ID, address (pr-fr 7/23 Famularo-Japan)

CZECHOSLOVAKIA continued

Radio Prague is using the new frequencies of 13715 & 15540 @ 0100-0200 & 0300-0400 in English. (Arthur Cushen's DX World via Sweden Calling DXers bulletin 7/18) *RPb/c* in EE to Afr & Asia @ 1530-1625 on 21505, 21450, 17840, 17640, 15155, 15115, 13715, 11990 11685 & 7345; 1730-1825 on 21505, 17840, 15110, 13715, 11990, 11685 & 9605. (Robert Chester?, R. Australia Japanese DX pgm via SWL Digest 8/13)

FINLAND *Radio Finland*

15185 0230 *RFEE*; Business Monday, economic rpt, unemployment in Finland, Finland is up to 2 million vehicles (333 7/30 Brown-IL) 1405 EE; nx of Finland, Finns to the U.S.A., freedom, VDA QRM (333 7/15 Miller-CA) 1830 EE; Nordic nations response to developments in China (333 6/17 Saarikko-NY) 0230 EE; nx, press review, Airmail (444 6/13 Fischer-WI)

21550 1307 *RFEE*; nx, ment technology, ID, Soviets, trade, elections (112 7/6 Miller-CA) 1340 Finnish/Swedish; long list of foreign exchange rates, ID/freq anmt incl Windsor CT address/phone #, 1344 into Swedish, nx (444 7/11 Westenhaber-QU) 0810 EE; press comments on Olaf Palmer murder trial in Sweden, Nelson Mandela, Finnish lang lesson (fr-gd 7/13 Famularo-Japan) 1200 EE; Science Horizon, AIDS research (555 7/28 Yarbrough-NC)

FRANCE *Radio France International*

17620 1615 *RF/EE*; tlk on French Revolution, intvw, pop mx (544 7/12 Miller-CA)

21580 1803 *RF/FF*; tlk on nx like intvw, nx of France, ment Pres., Soviets, Paris (444 7/28 Miller-CA)

GERMAN DEMOCRATIC REPUBLIC *Radio Berlin International*

9730 2240 *RB/GG*; track & field meet between G.D.R.-U.S.S.R. (322 7/16 Mahling-MA)

11785 0300 *RB/EE*; birthday celebration for Nelson Mandela (434 7/19 Yarbrough-NC)

13610 0235 *RB/EE*; comtry on economics, Warsaw Treaty (444 7/12 Levison-PA)

13690 1500 *RB/FF*; IS, ID, to Afr, YL w/ wld nx, steel band mx (343 7/8 Dillon-Greece)

21465 1300 *RB/EE*; RBI DX-Club, story on ECSS tuning (333 7/17 Kuroda-Japan)

GERMANY, FEDERAL REPUBLIC OF *Deutsche Welle*

5960 0500 *DWEE*; to NAM, ID, wld nx, indepth pgm stories (333 6/10 Dillon-Greece)

6080 0120 *Bayerischer RundfunkGG*; mx, tlk, Night Express (322 7/16 Mahling-MA)

6100 2238 *DWGG*; freq sked, IS, cl mx pgm (433 6/20 Bishop-NY)

7190 0130 *R. LibertyRR?*; IS, "R. Svoboda" by OM, tlk, comtry on ME (333 8/2 Cichorek-NJ)

7265 0200 *SüdwestfunkGG*; rock mx, OM w/ tlk (322 7/16 Mahling-MA)

11795 0002 *DWGG*; German nx, ment Austria & other Eur countries, Berlin (444 7/23 Miller-CA)

13780 1355 *DWGG*; Panorama, IS, ID & bell @ 1400, wld nx (444 7/8 Dillon-Greece)

15370 *0230 *R. Free Afghanistan* Pashto/Dari; inst mx, s/on ID & anmts, into nx w/ frequent ment of Kabul, brief mx segment, to Dari @ 0300, // 17895 (353 6/16 D'Angelo-PA)

17560 1701 *DWGG*; OM w/ wld nx, ID, comtry (444 5/9 Dillon-Greece)

21510 *0600 *R. LibertyRR*; IS, OM w/ ID "Govorit Radio Svoboda," nx (fr 7/14 Famularo-Japan) 1430 Kazakh; ID, wld nx, ment of Chinese leaders, L.A. Times (433 7/2 Dillon-Greece)

GREECE *Voice of Greece*

5965 0515 *VGA relayAA*; ID "Huna Washington," correspondent rpt from Tunis, AIDS Conf. in Canada (555 6/10 Dillon-Greece)

7205 0124 *VGA relayEE*; rpt on hostage situation, election problems in Poland, U.S. economic rpt (333 8/3 Cichorek-NJ)

9395 1920 *VGGEE*; YL, ID, nx about Democratic Party, Papandreou in hospital (444 6/27 Willers-Switzerland) 0137 Greek; Greek mx, ID (444 7/29 Brown-IL)

IRELAND

R. Dublin Int'l was measured on 6911.52 with 40 watts @ 0112-0130. (Daniel Bachareni (sp?) -Italy, Play-DX, SWL Digest 7/23)

ITALY *Radiotelevisione Italiana*

- 9575 0007 *RA/EE*; usual nx by old woman, Italy's PM at the Paris Economic Summit (454 7/15 Fraser-MA) 0017 EE/II; pop mx in II, VL @ 0120 w/ "Good evening from Rome," bell IS, into FF (343 8/2 Cichorek-NJ)
- 15330 0401 *RA/EE*; nxcst by the infamous dead lady, ID as "R. Rome," address slipped in between items, this freq not listed in current RAI sked (333 8/4 Westenhaver-QU) The frequencies that are listed in the sked are 11905 & 17795 to South Asia @ 0350-0410.-ed.

LUXEMBOURG *Radio Luxembourg*

- 6090 2358 *RTL/EE*; rock mx, ID, Police, "Don't Stand So Close To Me," REM (222 7/29 Brown-IL)

MONACO *Trans World Radio-Monte Carlo*

- 9480 0845 *TW/EE*; Victor tlks about visit to S. Afr., worship song, Hour of Decision (334 7/2 Willers-Switzerland)

NETHERLANDS *Radio Nederland*

- 9715 1130 *RA/EE*; Happy Station Show, Happy Birthday Rosmary, heard his name, mx from ELO (444 6/25 Willers-Switzerland)
- 15280 *1430 *RW/FF*; IS, OM w/ ID "Ici Nederland..." time pips, OM w/ tik (fr 7/23 Famularo-Japan)

NORWAY *Radio Norway International*

- 15175 0358 *RA/EE/Norw.*; IS, ID, QRM-15180, nx of Norway (444 7/16 Miller-CA)
- 15325 1200 *RA/EE*; nx, environmental problems, nuclear energy, 1224 QRM de IS from another station (242 7/23 djs-WI)
- 21705 0830 *RA/Norwegian*; Norw. songs, accordion mx, EE ID, 0850* (fr-gd 7/23 Famularo-Japan)
- 21710 1415 *RA/EE*; rpt on domestic activities, festivals, contests, et al (pr-fr 7/23 Famularo-Japan)

R. Norway Int'l makes the following changes on 9/3 for its 1/2 hr. b/c in English: 0600 Su 21725 to ME; 0800 Su 25730 & 15165 ex-21730 to Far East & Australia; 0900 Su 21710 ex-17840 to Far East & Australia; 1200 Su 15165 ex-15325 to N&CAm; 1400 Su 21710 ex-21705 to India, SAs & Australia; 1600 Su 21705 & 17840 ex-15310 & 17780 to N&CAm; 1700 Su 17840 ex-17780 to NAm; 1800 Su 15235 ex-21730 to ME & Afr; 1900 Su 15235 ex-15220 to Eur; 2200 Su 15265 ex-25730 to WAfr & SA; 2300 Su 11785 ex-15190 to N&CAm; 0000 M 15165 ex-11845 to SA. (direct)

POLAND *Radio Polonia*

- 7270 2230 *RP/EE*; nx on Poland, DX Club, some mx by request (444 6/1 Card-RI) 2338 EE; intvw w/ OM on economic re-distribution & priorities, 2340 ID, reggae song done in Polish! (333 8/2 Cichorek-NJ)

R. Polonia's English b/c sked is as follows: News Section opens every b/c; Panorama-W 1600, 2230, 2305 & Th 0630; Focus Cultural Magazine-Th 1600, 2230, 2305, F 0630; Jazz, Pop, Rock & Folk Music from Poland alternately-Sa 1430, 1830 & 2305; Top Twenty alternately-Sa 1430, 1830 & 2305; Postbag-M & F 1600, 2230, 2305, Tu & Sa 0630; DX Program-Tu 1600, 2230, 2305, W 0630, 1430 & 1830; Request Concert-Su 1600, 2230, 2305 & M 0630; What We Said-Sa 1600, 2230, 2305 & Su 0630. (direct)

SWEDEN *Radio Sweden*

- 17800 0115 *RS/EE*; Swedish pop mx scene, ID, into RR @ 0130 (fr 7/10 Famularo-Japan) 0155 RR; item about a jazz/blues festival in Stockholm, 0200 IS, into Swedish pgm, really strong--pinning the needle! (444 7/9 Westenhaver-QU)
- 17880 1531 *RS/EE*; Sweden Today, treatment for stress, advantage of equality for men, butterfly exhibition, 1558* (443 7/23 djs-WI)
- 21610 1400 *RS/EE*; IS, ID, nx on Soviet nuclear submarine's fire (454 7/17 Kuroda-Japan)

SWITZERLAND *Swiss Radio International*

- 6165 0630 *SR/EE*; nx, Dateline, Swiss SW Merry-Go-Round (455 7/8 Willers-Switzerland)
- 6190 2128 *SR/EE*; IS (433 6/30 Bishop-NV)

SWITZERLAND continued

- 7210 1712 *Red Cross Broadcasting Corp.* EE; ID, Red Cross tlk about Mauritania & Somalia, Kabul hospital, mailbag (555 6/26 Willers-Switzerland)
- 13685 1515 *SR/EE/Esperanto*; IS, ID, to ME & NAfr, into Esperanto w/ OM ancr, Swiss mx (444 7/8 Dillon-Greece)
- 21695 1330 *SR/EE*; nx items (242 6/22 Levison-PA) 1315 EE; IS, ID "This is Swiss Radio International," mx, nx, Dateline (453 7/17 Kuroda-Japan)

Swiss R. Int'l is b/cing on 21705 in English @ 2100 & Spanish @ 2130 on an experimental USB-ful carrier 15 kilowatt transmitter to Swiss medical units serving w/ the U.N. in Namibia. (Jack Soulthosi? via Communicator 8/13)

UNITED KINGDOM *British Broadcasting Corporation*

- 9825 0130 *BBCSS*; Peña Latinoamericana, folk mx from Venezuela, Bolivia, Chile, discussion of Colombian mx festivals (453 7/6 Meinhardt-IL)
- 15225 0521 *RCI relay* EE/FF; Canadian nx, stock market rpt, wx, spts, 0528 ID, ment freq is for Afr, into FF nx (354 7/11 Westenhaver-QU)
- 17705 0430 *BBC EE*; Roger Miller tunes, other oldies (323 7/14 Fischer-WI)
- 25750 1346 *BBC EE*; live coverage of women's final from Wimbledon (353 7/9 Westenhaver-QU)

VATICAN CITY *Vatican Radio*

- 15180 0057 *VREE*; Cambodian peace tlks continue in Paris, Pope is invited back to Mexico, Chilean voters approved Democratic reforms (444 7/31 Brown-IL)
- 21485 1132 *VPPP*; YL w/ ment of Pope John Paul, sked, ID, IS, into FF to Afr (444 7/2 Dillon-Greece)
- 21650 *1545 *VREE*; IS, drums, ID, Afr nx (pr-fr 7/14 Famularo-Japan)

YUGOSLAVIA *Radio Yugoslavia*

- 9620 1420 *RYRR*; ID "Radiostantsiya Yugoslavia," rock song, ment of Yugo. (444 7/15 Dillon-Greece)
- 21555nf 1200 *RYEE*; IS, nx, comtry, mx, ID "You're turned (tuned?) to R. Yugoslavia" (333 7/22 Kuroda-Japan) 1224 EE; ID, YL w/ tlk on earthquake-proof construction, jazz (fr-gd 7/20 Famularo-Japan)

R. Yugoslavia in German @ 1630-1730 is on new 7215 // 9620; @ 1930-2000 on new 6100 & 7215 // 9620. (Horst Veit, G.D.R. via Sweden Calling DXers bulletin 7/18)

Don't forget that on September 24 European Winter Time goes into effect. Stations in which programming will be one hour later include Radio Sofia, Radio Berlin International, Radio Budapest, Radio Finland, and some broadcast from Radio Austria International and Belgische Radio en Televisie.

73's Daniel



Welcome to the September column. Only 26 logs this month, including the CDE logs from last month! I'm sure the fall DX season will bring the customary upsurge in logs. No ILG or UHN yet, so site listings will be sparse this month. Here we go ...

**USSR Radio Moscow Radio Kiev Radio Vilnius Radio Tashkent
Radio Station Peace and Progress Radio Yerevan**

- | | | |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7400 | 2350 | RK -Leningrad (ILG): EE; "Ukraine Today", !! 11790 (555 7/17 Fraser-MA) |
| 9450 | 2002 | RM : ??; M tik in unknown lang., mx @ 2010, FF @ 2011 (<i>Anyone know what language this is [creole]? -ed</i>) (333 6/29 Bishop-NY) |
| 9530 | 1540 | RM -Irkutsk?: RR; RR concert choir mx, ballads (353 7/23 Kunkel-CA) |
| 9770 | 0110 | RM : EE; "Moscow Mailbag" & "Tonight" (444 6/21 Bronowicz-NJ) |
| 11690 | 1635 | RM -Khabarovsk: RR; dance mx, rpt on navy visit to US (455 7/23 Kunkel-CA) |
| 11730 | 0203 | RM : EE; cmtry on Gorbachev visit to Leningrad (444 7/12 Levison-PA) |
| 11790 | 2203 | RV : EE; rpt that the area of privately owned farmland is to be increased (444 7/4 Fraser-MA) |
| 11975 | 1340 | RM : Turkish; ment. of Soviet cities, EZL mx, tik abt Lenin, ID, IS (544 6/17 Dillon-Greece) |
| 12000 | 0201 | RK : EE; nx - Gorbachev leaving France, cmtry (444 7/8 Levison-PA) |
| 12030 | 1830 | RM -Khabarovsk?: EE; "Update", under-modulated signal (342 6/28 Hanson-WA) |
| 13660 | 1530 | RM : FF; W anc, class. mx, ID by M, QRM (433 7/8 Dillon-Greece) |
| 13710 | 1445 | RM : EE; EE translation of RR opera, ID, QRM de Prague on 13715 (333 7/8 Dillon-Greece) |
| 15286 | 0200 | RM : EE; nx, "Outlook" (333 7/27 Bronowicz-NJ) (15285? -ed) |
| 17570 | 1647 | RM -Tbilisi (ILG): Amharic/EE; M w/ nx, ID @ 1659, sked, IS, into EE w/ID (444 5/9 Dillon-Greece) |
| 17600 | 2303 | RM -Petropavlovsk (ILG): EE; W nx, ID @ 2311 & tik abt ethnic relations in the USSR, UTE QRM, !! 17620, 17655 (232 7/9 Westenhaver-QU) |
| 17610 | 1410 | RSP&P : EE; ID, tik on upcoming visit by Rajiv Ghandi to USSR (fr 7/14 Famularo-JP) |
| 17635 | 0425 | RM -Frunze (ILG): EE; Gorbachev sends greetings to Mitterand on Bastille Day (433 7/14 Fischer-WI) |
| 17665 | 0550 | RM -Petropavlovsk (ILG): EE; DX pgm (454 5/23 Matsushita-JP) |
| 17690 | 0525 | RM -Simferopol (ILG): FF; W anc w/ rock mx, M w/ story, address, ID (444 6/11 Dillon-Greece) |
| 17810 | 1329 | RSP&P : AA; clarinet IS, s/on & ID @ 1330 into nx w/ lots on hostage situation (433 8/4 Westenhaver-QU) |
| 17880 | *2300 | RM : Indonesian; ID & sked for indo bcsts, W nx, just barely stronger than co-chan RM in PP for Brazil! (322 7/9 Westenhaver-QU) |
| 21465 | 1420 | RM : FF; Coverage of closing ceremonies of World Festival of Youth and Students in Pyongyang, ID @ 1430 into African svc (343 7/9 Westenhaver-QU) |
| 21790 | 2345 | RM : EE; pgm of waltz mx w/ W host, ID @ 2358, wld nx @ 0000, QSB & QRM (444 7/20 Westenhaver-QU) |
| 21800 | 1340 | RM : FF; "Le Retroviseur" historical profile pgm on Robespierre, QRM (433 7/12 Westenhaver-QU) |

That does it for the logs. No relays this month, but we have one unidentified log: 11830 @ 1645 - AA? tik & mx, RM IS @ 1655 (probably RM, anyone have confirmation?). I also received a log for RID on 15004 KHz - this is a utility station (SFTS), and these go to *Utility Scene* editor Paul Lannuier.

Oh no, I still have room left, hi. I compiled some statistics on the logs submitted to this column in the past year. I was going to present a fancy graph with my new software, but I haven't figured out how to do it yet! There was a total of 749 logs submitted over the past 12 months, which works out to an average of about 62 per month. I guess that's all I have for this month. See you next time... -Jason

Africa

Al Quaglieri • P.O. Box 888 • Albany, NY 12201-0888

All times and dates UTC: Frequencies in Khz: *0000 = s/on, 0000* = s/off.

Submission Deadline is the 12th.

Well, boys and girls, it's back to school, back to work, and back to DXing. From the looks of this month's column, most of you spent August lolling around outdoors instead of sweating over the dials. OK, you're forgiven - this time!

COLUMN FOR SEPTEMBER, 1989

ASCENSION ISLAND

- 15260 1710 BBC Relay: EE; Rpt. on Anglo-Brasilian Amazon rainforest agreement. 454(7-6 Fraser-MA)
- 15400 2120 BBC Relay: EE; "From Our Own Correspondent": Guccione launches Hebrew edition of "Penthouse." [I can see the "Letters" column now: "Dear Penthouse: I'm an attractive woman of 22, and I'd like to share a remarkable experience I had last night with an Arab terrorist while on patrol in Southern Lebanon..."..ed.] 232(7-29 Westenhaver-QUE). @1715..333(7-1 Willers-SWITZERLAND)
- 17880 2030 BBC Relay: EE; "Meridian": obit/profile of Olivier. Better here than Antigua/17760. 444(7-11 Westenhaver-QUE)

BOTSWANA

- 4830 *0402 R. Botswana: EE/SetS; barnyard IS, NA, ID, freq anmt; breakfast show @0415 w/anmt of upcoming Eric Clapton concert [he's most likely traipsing through Africa on a beer promotion. -ed.]. This new freq (ex-4820) is armchair copy! [However, copy is not so hot if your chair happens to have no arms. -ed.]. 454(7-24 Brown-PA)

CAMEROON

- 4850 2350 CRTV Yaounde: FF/EE; mx, bilingual IDs, NA, off 0002*. 222(7-28 Bronowicz-NJ).
- 7240 *0431 CRTV Garoua: VN/EE; NA, CRTV ID, AA recitation, into VN yak @0438, flute bridge @0501, EE CRTV ID //4850, Nat'l Sce nx in EE; back to lcl pgm @0517 w EE dj. No local ID hrd. vy good(8-12 Sheedy-CA).

CHAD

- 4904.5 2252 R. Nac. Tchadienne: FF: African mx, NA, off @2300*. 333(7-23 Willers-SWITZERLAND)

EQUATORIAL GUINEA

- 5003.6 2128 R. Nacional (t): lots of African drums w/singers, M tlk, no ID heard. 3232(7-22 Willers-SWITZERLAND)

GABON

- 7125 0311 R. Japan Relay: EE; nx, tik, Tokyo Pop-In; lotsa CW GRM. 221(7-28 Hanson-WA)
- 9675 0850 R. Japan Relay: JJ/PP; 2 M tik JJ, W ID, 0900 TPs, PP ID, freqs, tik, fr(7-22 Famularo-JAPAN)
- 11800 2315 R. Japan Relay: EE; cmt; ASEAN conference, Cambodia. 444(7-18 Fraser-MA). 423(7-22 Miller-CA)
- 15475 1752 Africa #1: FF; 2 men tik, cut off @1755-1800, then mx followed; ID @1801, nx, more mx. 444(7-23 Willers-SWITZERLAND)
- 21610 2300 R. Japan Relay: EE; 18, Gabon ID, TC, nx, cmt; on environment. 444(7-26 Miller-CA)
- 21690 0553 R. Japan Relay: II; item on anniv. of Hiroshima bombing. 444(8-6 Westenhaver-GUE)
- 21700 1506 R. Japan Relay: EE; nx; bank talk, Mexican debt, ID. 434(7-8 Willers-SWITZERLAND)

GHANA

- 4915 0540 GBC: EE; W with cmt; M ID. Hi GRN. 233(7-25 Miller-CA)

KENYA

- 4934 0400 VO Kenya: EE; lcl/int'l nx, ID @0414, "The Press Today." loud(7-25 Sheedy-TRINIDAD)

LIBERIA

- 4760 2201 ELWA: EE; BBC nx; Mandela, bombing in Kabul; ID. 222(7-23 Willers-SWITZERLAND)

MALI

- 4835.3 2232 RTV Malienne: FF; M reads nx; Chad, Mali; ID @2246, "Ici Bamako." 434(7-23 Willers-SWITZERLAND)

MOROCCO

- 9575 2000 R. Medi Un: FF/AA: Cock Robin song, FF W ancr, mx from Alphaville, AA nx, then Bryan Adams song. [The musical selections lead me to believe Medi Un may in fact be conducting a campaign of subliminal inner ear torture and demoralization. -ed.] 322(7-8 Willers-SWITZERLAND)
- 15335 1753 RTV Marocaine: AA; AA song foll by heated discussion as to how the song should have been [everyone's a music expert...ed.], nx on the hour. 455(7-30 Willers-SWITZERLAND)

NIGERIA

- 6025 2244 R. Nigeria, Enugu: EE; continuous Afr vcl mx to 2359 ID, foll by 3+1 TPs, another ID, then nx; @2302 prayer, 2308 s/off anmt by W, pledge, choral NA, off 2310%. 141(7-6 D'Angelo-PA)
- 6050 2253 R. Nigeria, Ibadan: EE; Afr/tribal vcls to 2359, then ID, pgm previews for tmw, TC/ID, then nx; @2304 "This is Radio Nigeria, Ibadan," then voc/orch NA; 2306%. 242(7-21 D'Angelo-PA) [Good one, Rich! -ed.]
- 7255 0545 VO Nigeria: EE/VN; ID, local nx, another ID @0600 and into lcl language. 444(7-29 Miller-CA)

SEYCHELLES

- 11810 1701 FEBA: Somali; s/on IS, heavy GRM de unkn AA. 222(7-23 Kunkel-CA)
- 15325 0342 FEBA: AA; IS alt w/"Idha'atu saut al-ufuran" anmts; pgm start @0345; wrecked by co-chan RJ via Montsinery. 322(8-4 Westenhaver-GUE)

SIERRA LEONE

- 3316 *0554 SLBC: EE; 18 'til 0558, then NA/ID "From the SLBC in Freetown..," freq anmt foll by classical organ mx; after another ID, pgm "Voice of Salvation." 342(7-23 Brown-PA)

SOUTH AFRICA

- 4880 0417 Radio 5: EE; pop mx, ID, ads, more mx. 222(7-29 Miller-CA)
6010 0245 R. RSA: EE; amateur radio pgm: Oscar 9 freqs; GRM de BBC.
444(7-16 Miller-CA)
7189.6 x0530 R. Suid Afrika: AK; abrupt s/on w/M dj, usual lame mx, ads,
clear ID @0600 after horn fanfare & into nx; 1st time I've
hrd more than 1 ID/hr from these guys; ex-7230? [I guess.-
ed.] very good(8-12 Sheedy-CA)
21590 1452 R. RSA: EE; tlk abt "Radio Spectra" interview w/man living
on a lonely island called "Merrion." [Is that the island's
or the man's name? -ed.]. 444(7-8 Willers-SWITZERLAND).
@1814 in EE...334(7-28 Miller-CA)
25790 1438 R. RSA: EE; cmtly abt African mx, ID/freq, DX Corner. 545(7-16
Willers-SWITZERLAND)

TUNISIA

- 17610 0424 R. Tunis: AA; "Bizarre" M vcl mx [which was bizarre..the M
or..ahh, forget it! - ed.]. @0344 brief W anmt [Brief? the
woman or..HELP ME! I CAN'T STOP! -ed.], longish M tlk
[AARRRGH! -ed.]. 444(7-27 Westenhaver-QUE)

ZAMBIA

- 4910 0406 R. Zambia: EE/VN; nx 'til 0412, brief fish eagle IS for a
bridge, M EE ID, into M in VN w/talk of Luanda. 252(7-29
D'Angelo-PA)

CLANDESTINE

- 5015 0439 Radio Truth: EE; M/W read nx abt South Africa; @0445 march
bridge, cmtly abt Zimbabwe gvt; @0501 W w/signoff anmts, ID,
bird call [the woman did a bird call? Wish I'd heard that! -
ed.], IS, off 0502x. 232(7-22 D'Angelo-PA)

Got a nice note from Dan Sheedy, who brought his 2010 along on a trip to Trinidad in late July. Although he spent most of his DX time chasing Latin Americans, Dan had time for a quickie African bandscan, done @2130: 4760/Liberia, 4770/Nigeria, 4777/Gabon, 4783/Mali, 4810/S. Africa, 4815/Burkina Faso, 4835/Mali, 4845/Mauritania, 4850/Cameroon, 4870/Benin, 4880/S. Africa, 4904.5/Chad, 4915/Ghana, 4940/Cote d'Ivoire, 4990/Nigeria?, 5020/Niger, 5047/Togo. Also noted later on were 3222/Togo, 3230/Liberia, and 3316/Sierra Leone. Gee Dan, wish you'd had time to dig for the odd Angolans, Congo, and Zaire - after all, you were 2000 miles closer to Africa than I am, and I can hear everything you listed - hi! Next time skip the sun and surf and stay cooped up in your hut listening to the radio, OK?

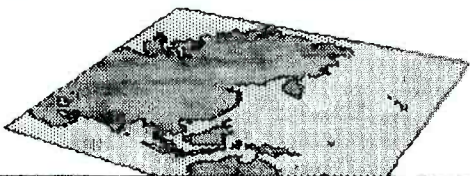
Only three pieces of DX NOOZ this month:

SUDAN - Per a telex from Abbas Siddiq, Director General of Engineering and Technical Affairs, the only active shortwave transmitter is a 10kW unit at Boba on 9435kHz. The operating time is listed as 1100-1400 UTC, although it has been reported outside those hours. (Andy Sennitt/WRTH/Pinelands BBS)

ZAIRE - In recent years, many regional radio stations in Zaire have been operating rather irregularly. The following stations are currently reported active: Lubumbashi on 7205 kHz, noted signing on at 03:55. Mbuji-Mayi on 7295 kHz observed from 04:00. And Bukavu which can be heard on a frequency varying between 4860 and 4862 kHz, from 03:30 to 06:00 and again from 15:00 to 18:30. (BBC Monitoring/SCDX) The Bukavu station has been widely reported by DXers in recent months. We have also noted that verification letters have been received from Box 475 in Bukavu. (SCDX Editor)

UNOFFICIAL RADIO--There are two different stations broadcasting programs in opposition to the present regime in Libya on the frequency of 11825 kHz. One is The Voice of the People, the Voice of the Libyan National Movement, using the frequency at 11:00, 14:00 and at 18:00 hrs. There is also a special transmission on Fridays at 08:00. The other station is The National Tolling for the Redemption of Libya, on 11825 kHz at 06:00, 15:00 and 20:00 hrs. Both stations are very strong in N'Djamena, so it can be assumed that they are located in a country close to Chad. (Awada Ehemir Torna/SCDX) That's it for now, folks! 73,

al



ASIA/OCEANIA

William Westenhaver
3525 Aylmer St., #610
Montreal, Quebec, Canada
H2X 2C1

Deadline: 12th
Dates/Times: UTC
Frequencies: KHz

Welcome to the September column! The CDE material arrived this month in good time, so there are no problems on that score. Loggings are just a bit down, as people are off on vacation, or otherwise occupied, but there are still some interesting things to be found herein. There'll be some A/O station news items, too, of nifty things to look out for.

AUSTRALIA

Radio Australia

- 9580 1100 RA: EE: World nx (444 7/14 Yarbrough-NC) (welcome to the column!-ed.) @ 1130 w/"International Top Hits" mx px; // 9770 was SIO 252 (454 7/16 Fraser-MA)
- 9710 1207 HA: EE: "International Report" on struggle of indigenous Hawaiians to win their political/land rights (343 8/13 ed.)
- 11770 0902 RA: EE: World/Australian nx (fair 7/13 Famularo-JAPAN)
- 15240 0503 RA: EE: Sporting service w/cmty on VFL football match between Geelong and St. Kilda (343 8/5 ed.)
- 15320 0509 RA: EE: Mainstream RA service w/ID/TC and Australian nx--not 7/15240; co-channel RMWS (333 8/5 ed.)
- 17755 0400 RA: EE: Nx of new Chinese crackdown and Bush's visit to France (533 7/14 Fischer-WI)
- 17795 0155 RA: EE: Mx; ID at top of the hour (222 7/27 Bronowicz-NJ) (Welcome to the column!-ed.)
- 21525 0545 RA: EE: Pacific island mx requests; ID; occasional lcl QRM but generally OK signal (good 7/21 Famularo-JAPAN) @ 1340 w/sports nx; @ 1342 ID/jingle/px promo; then mx; hri past 1425--a real surprise! (343 8/9 ed.)
- 21740 0420 RA: EE: Item abt Bastille Day celebrations in France (444 7/14 Fischer-WI) @ 0330 w/ID as "R. Australia, the ABC World Service"; into sports nx (444 7/26 ed.)

BANGLADESH

Radio Bangladesh

- 17950v 1257 RB: EE: Lcl mx; w clear ID/address; obvious xmtr problems since burst of xmtr QRM and quick drop to 17910 to 1300*; back on 17950 on 7/13 (fr-gd 7/11 Famularo-JAPAN)

CHINA

Radio Beijing Central People's Best Strn

- 5145 *1300 RB: RR: IS; M/W s/on routine; //5850 was SIO 454 (353 7/4 Kunkel-CA)
- 9440 1045 RB: (p)CAMBODIAN: Long tlk by W; mx @ 1120; closing routine @ 1126; //11455 was SIO 121 (343 7/21 Rogers-MA)
- 9900 1620 RB: (l)HAKKA: W in long dialog (anything over 30 seconds is long for me) (243 7/23 Kunkel-CA)
- 12015 1048 RB: (p)CANTONESE: CC opera--but almost like a kiddie version; @ 1055 M closing anmt w/"Bajing kuangpo tiantoi" and RB's closing theme mx; 1056* (242 7/28 ed.)
- 15030 2105 CPBS-2: CC: Classical CC mx; not listed in WRTH or PWBR as being on at this time (353 7/9 Kunkel-CA) (Hey, Rolan, nobody's perfect!-ed.)
- 15400 1200 RB: EE: W nx to 1210; then cmty on investigation of students re recent unrest (454 7/4 Kunkel-CA) (Rolan, this frq is listed in the current RB sked, for SEAsia.-ed.)

(Note: RB in EE @ 0400 on 11840 is actually the relay via Sackville.-ed.)

(Just a few lines left on the page, so I'll take this opportunity to wish a happy birthday this month to our Esteemed Publisher, Eddie, the guy who gets this magazine off to all of us each month. Happy Birthday, OM!)

COOK ISLANDSRadio Cook Islands

11760 0700 RCI: EE/MAORI: Drums IS; domestic nx w/occasional drums/ID; mx px @ 0730 (233 7/11 Card-RI)

CYPRUSBBC relay

6050 1720 BBC: SERBO-CROAT: Sports nx; ID and world nx (433 7/15 Dillon-GREECE) (welcome back, Peter!-ed.)
 9660 1435 BBC: EE: "Sportsworld" (Paddy Feeny had the day off) (444 7/15 Dillon-GREECE)
 17740 0546 BBC: EE: "Letter from America" (333 8/6 ed.)

FRENCH POLYNESIARFO Tahiti

15171 0720 RFO: FF/TAHITIAN: Great Tahitian mx/FF love songs; no // frqs hrd (434 7/28 Miller-CA) @ 0403 w/RFI nx in FF; W Tahitian anmt; lcl song; bilingual obituary for an eleven-year old; then back to lcl mx (333 7/30 ed.)

GUAMKSDA

11700 0858 KSDA: CC: EE ID for bcst in Mandarin "This is Adventist World Radio-Asia, KSDA, Agat, Guam"; then M/W tlk; rlg mx @ 0915 (343 7/7 Sampson-WI)

INDIAAll India Radio

9910 1625 AIR: PERSIAN: Hindi-type mx w/w/M ancrs; rapid flutter on signal (242 7/23 Kunkel-CA)
 11620 2100 AIR: EE: Polk mx px; tlk abt India's relations w/Sri Lankan Tamils (242 7/19 Yarbrough-NC) @ 2214 w/cnty on Sri Lanka; tlk on tourist services; ID's (333 8/5 Cichorek-NJ)
 15050nf 1012 AIR: EE: Cnty on North-South dialogue; trad. mx; ID's; // 15335 weak (fr-gd 7/19 Famularo-JAPAN) (This nf, ex-15155, is used for the GOS in EE 1000-1100, beamed to NEAsia.-ed.)
 15335.5a 1220 AIR: TAMIL: Classical Tamil mx; M tlk; @ 1229 W anmt; 1230* (252 7/4 Kunkel-CA)

INDONESIARadio Republik Indonesia

4775 1110 RRI JAKARTA: IN: W tlks; pep songs, some w/EE lyrics (444 7/15 Miller-CA)
 11760 0658 RRI PROGRAMA NASIONAL?: IN: W tlk/SCI/nx; @ 0800 recheck slightly stronger w/ID "RRI...Nasional"; maybe ex-11770 to avoid RA's nf in EE (poor 7/21 Famularo-JAPAN)
 15154.5 0759 RRI JAKARTA: IN: SCI; @ 0800 TP/M ID/nx; nothing on 11760-- looking for a nf? (fr-gd 7/23 Famularo-JAPAN)

IRAQRadio Baghdad

11745 0605 RB: AA: AA mx w/frequent ID's (544 7/13 Miller-CA)
 11810 0142 RB: EE: Mideast mx; ID/nx of hostage situation; wiped out @ 0153 by DW IS (322 8/2 Cichorek-NJ)
 11945 0155 RB: EE: Anti-Iran cnty; ID; Mideast mx (433 7/22 Rogers-MA)
 13660 2039 RB: EE: Mideast mx; ID and tlk abt official victory over Iran (444 8/9 Cichorek-NJ)
 17750 2305 RB: AA: Bizarre mix of perky AA mx/person-in-street interviews/crowd noises (war whoops/marches) and anmts; finally @ 0003 ID and back to same stuff; //15415 SIO 232 (444 8/8 ed.)

ISRAELReshet Daleth relayReshet Bet relayKol Israel

5900 1805 RD: AA: AA mx to 1855; M ID; ute QRM (433 7/15 Dillon-GREECE)
 13750 0352 RB: HH: Chat/outside rpts; "Boker Tov" jingles; ad string incl Telma cornflakes/pasta/soft drinks; @ 0400 TP/ID/nx; much QSB plus ute QRM (333 7/26 ed.)

JAPANNihon SW BcstingRadio JapanRCI relay

3925 0950 NSB: JJ: Tlks; mx; ID's; pop mx; strong RTTY QRM/het--from hams? (434 7/26 Miller-CA)
 9595 1550 NSB: JJ: Mx px w/w host (353 7/23 Kunkel-CA)
 9695 1605 RJ: JJ: M nx in JJ--almost seemed jammed (343 7/23 Kunkel-CA) (why would someone jam RJ in JJ??-ed.)
 15270 1319 RCI: EE/CC: EE lesson for CC speakers (about Newfoundland); CC anmt w/ID "Jianada guoji guangbo diantai"/RCI Montreal address; IS @ 1329* (242 8/4 ed.)
 17810 *1300 RCI: CC: IS; EE/FF ID's; CC ID/anmt; @ 1302 IS and into EE lesson; better today than //15270 (222 8/9 ed.)
 21610 0340 RJ: SS: ID @ end of nx; into tlk abt JJ folktales (242 8/4 ed.)

KOREA, D.P.R. Radio Pyongyang
 15115 0840 RP: EE: Male chorus singing "Korea Is One" and other martial
 mx (332 7/15 Fischer-WI)

KOREA, REPUBLIC OF Radio Korea
 9570 1402 RK: EE: Nx; cmt; ID and into "Seoul Calling"; 9570 had less
 QRM than //9750; also hrd //15575 (545 7/19 Miller-CA)
 9870 1532 RK: KK: Tlk by W (cmt?) w/ments Washington (444 7/16 Miller-
 CA) @ 1610 in EE w/nx of discrimination against Koreans in
 Japan; ID @ 1615 (353 7/23 Kunkel-CA)

LEBANON Voice of Lebanon
 6549.3 2013 VOL: AA: M nx abt Israel/Nelson Mandela; FF pop mx; song
 called "Johnny and Mary" (223 7/8 Willers-SWITZERLAND)

MALAYSIA Voice of Malaysia
 15295 *1028 VOM: CC: IS to 1030 EE ID by W "This is the Voice of Malaysia
 ..."; inst mx bridge; w tlc in CC; hrd to 1116 tune-out
 (242 7/14 D'Angelo-PA)

MARIANA ISLANDS KFBS
 15375 1215 KFBS: IN: W/M w/px of Indo light mx (353 7/4 Kunkel-CA)

MONGOLIA Radio Ulan Bator
 12015 *1200 RUB: EE: IS; ID; nx by W; holding its own today against RB
 in CC (not usually the case-ed.) (222 7/1 George-MA)

NEW ZEALAND Radio New Zealand International
 9850 1056 RNZI: EE: US country song; @ 1100 into nx (333 8/1 Thornton-
 NJ) @ 1106 w/end of nx; local wx; TC; into jazz show w/
 Jerry Mulligan mx (333 8/1 Cichoreck-NJ) (This month's
 first psychic DX'ers!-ed.)
 15485nf 0646 RNZI: EE/MAORI: Kids' px including letter from 4-year old
 (written by "Mum")...Maori nx @ 0700 (fair 7/13 Famularo-
 JAPAN) @ 0300 in EE w/live Argentina vs. NZ football match
 (433 7/29 Yarbrough-NC) @ 0530 w/"Pacific Voices" regional
 nx magazine px; @ 0600 "National Radio" ID/TP/nx (333 8/5
 ed.) (This frq is ex-15150 kHz, which is a real mess these
 days. 15485 will continue to be used in the S89 period.-ed.)
 17705 0609 RNZI: EE: Alistair Cooke's "Letter from America" (343 7/19
 Hanson-WA) (Welcome back, Jeff!-ed.)

OMAN BBC relay
 6030 1645 BBC: AA: AA mx w/M anor; then W w/world nx; //7140 (via
 Cyprus) (333 7/15 Dillon-GREECE)

PAKISTAN Radio Pakistan
 21575 *1100 RP: EE: W reads nx abt conference in Islamabad; nx repeated
 again but very slowly; ID; 1620* (333 7/1 Willers-SWITZERLAND)

PAPUA NEW GUINEA Radio Madang
 3260 1047 (t)RM: PD: M tlc; piano mx till 1100 brief anmt and more M
 tlc; co-chan QRM (poor 7/20 Famularo-JAPAN)

PHILIPPINES Radio Veritas Asia Far East Bost Corp
Voice of America relay
 6030 1110 FEBC: EE: M speaker/preacher at Philippines Conference for
 World Evangelization w/tlc on spreading gospel throughout
 Philippines (whether they want to hear it or not, I suppose);
 special bost for this conference?--not sked for this time
 (fr-gd 7/21 Famularo-JAPAN)
 9525 1502 RVA: EE: Tlc on costs in Manila; pop mx; world nx; ID's; not
 hrd on 15445 (444 7/15 Miller-CA)
 9615 1555* RVA: EE: Px listing and s/off w/trumpets--will be back @
 *2100 in Korean (354 7/23 Kunkel-CA)
 15445 1525 RVA: EE: "The Church in the World" church nx px; QRM de BBC
 IS (545 7/9 Miller-CA)
 15480 0133 FEBC: EE: M nx (mainly abt India); ID (fair 7/20 Famularo)
 21525nf 0200 VOA: EE: Nx incl Lebanon/Israel hostages; "Newsline"; site
 presumed; RA off this frq? (fr-gd 8/3 Famularo-JAPAN) (Maybe
 RA's stopped coming on so early??-ed.)

SAUDI ARABIA Bcast Sce of the Kingdom of Saudi Arabia
21505 1355 BSKSA: AA: Speeches; AA mx; ID; interviews w/several M; QRM de Prague began @ 1425 (433 7/2 Dillon-GREECE)

SINGAPORE BBC relay
9605 1405 BBC: HINDI: Nx w/ments of Japan/Malaysia; BBC ID; W w/story on Sri Lanka (333 7/15 Dillon-GREECE)
9725 1106 BBC: IN: M nx in country-item format, ending w/"Warta-berita dari BBC London"; into rpt on China (343 7/28 ed.)
9740 1545 BBC: EE: "Sportsworld"; world mx @ 1600; //15070 via UK (333 7/15 Dillon-GREECE)
11750 *0900 BBC: EE: Usual top-of-hour WS routine; into world nx/nx abt Britain (444 7/13 Card-RI)

SOLOMON ISLANDS Solomon Islands Best Corp
5020 0915 SIBC: PD: Tlk abt Minister of Agriculture; mx (444 7/6 Miller-CA) @ 1038 w/M tlk; lcl choral mx; casual ID @ 1041 (222 8/11 Cichorek-NJ)

SRI LANKA Sri Lanka Best Corp
9720 0030 SLBC: EE: EZL mx and jazz; UTC -5½ TC's; ID (232 7/21 Rogers-MA)
15425 0110 SLBC: EE: Pop songs (e.g. Petula Clark's "Downtown"); lots of co-chan QRM de Moscow (211 7/22 Thornton-NJ)

SYRIA Radio Damascus
12085 1615 RD: AA: ID "Itha'atu Filisteen min Dimashq" (Palestine Broadcast from Damascus); then professor w/tlk abt Jews and Germany (433 7/8 Dillon-GREECE)
15095 1350 RD: AA: AA mx; reverberation mike @ 1400 and into drama px; 7/12085 was SIO 444 (333 7/15 Dillon-GREECE) @ 1932 in EE w/pops, some from US; "Flight of the Bumblebee" theme mx for YL tlk; some CW QRM (544 7/24 Miller-CA)

TAIWAN WYFR relay
11550 1316 WYFR: EE: Bible readings (454 7/4 Kunkel-CA)

THAILAND Radio Thailand
9655 1128 RT: EE: Gong IS to 1129; M ID per WRTH; W w/mx/nx; fading out--weak to unreadable at 1200 (242 8/6 Kunkel-CA) (Glad you finally caught them after a year of trying!-ed.)

TURKEY Voice of Turkey
9445 2216 VOT: EE: "The Emergence of Modern Turkey" series featuring Atatürk's 1926 reforms (453 7/4 Fraser-MA) @ 2200 w/px discussing plight of ethnic Turks in Bulgaria (555 7/19 Yarbrough-NC)
15200 1235 VOT: TURKISH: Mx (353 7/4 Kunkel-CA) (More details, please, on a logging like this one.-ed.)

UNITED ARAB EMIRATES Voice of UAE Abu Dhabi UAE Radio Dubai
11985 2303 VOUAE: EE: Nx--lcl road programme is the "envy of the rest of the world" (433 8/2 Brown-IL) @ 2237 w/pops and birthday greetings; @ 2259 ID/TC/frqs/address for information on Islam (333 8/5 Cichorek-NJ)
13605 2300 VOUAE: EE: ID/TC; then "Press Review" (333 7/18 Brown-IL) (It's interesting that what they call a "Press Review" is actually a collection of lcl mx items from the lcl newspapers.-ed.)
15435 1608 RD: EE: Discussion of Islam; classical mx; @ 1630 nx/weather (115°F) (323 7/22 Bronowicz-NJ)
15555 1717 RD: AA: AA vocals; @ 1730 M amt w/ID per WRTH; then px of M tlk (344 7/24 ed.) @ 0340 in EE w/ID; feature on Arab centres of civilization; //15435 was SIO 433 (444 7/30 Rogers-MA)
21645 1322 RD: AA/EE: Mideast mx; @ 1329 EE ID/frqs; TP to 1330 and nx (322 8/6 Cichorek-NJ)

(No room to start Vietnam here. Instead, I'll just warn everybody to watch this column next month for the first-ever A/O Loggings Contest. Something for everyone--nothing difficult--plus even a prize or two. Have fun!)

VIETNAMVoice of Vietnam

10010 1240 VOV: CC: W tlc; seemed jammed by a CPBS signal (333 7/1 Kunkel-CA)
 15010 *2100 VOV: FF: W ID; then M nx; this px followed by JJ @ *2130 (252 7/9 Kunkel-CA) @ 1906 in EE w/discussion of Cambodian (NOT Kampuchean!) situation; full ID...off 1927* but back in FF @ *1930 (323 7/29 Thornton-NJ)

YEMEN ARAB REPUBLICRadio San'a

9590 1735 RS: AA: AA mx; ID 'Itha'atu ul-'Arabiyyah al-Yamaniyyah min San'a"; then M tlc; possible new frq? (444 7/15 Dillon-GREECE) (According to a report by Andy Sennitt on the 7/6 "Media Network" px; they've been using this frq with a 300 kW xmtr since early this year.-ed.)

UNIDENTIFIED

15200 1720 EE/??: Tlc ment "People's Programmes" but very weak; changed lang @ 1728; then Mideast-style mx (141 7/22 Kunkel-CA) (Does anyone have any idea what this one is?-ed.)

Let's have some station news to fill out the column, shall we? First of all, Arthur Cushen (who needs no introduction) reports, on the 8/3 "Media Network," that Tonga has changed the frequency of its HS relay from 5030 to 5025 kHz; it's on the air daily, except local Sundays, 1750-1000.

Arthur Cushen also reports that the new Rangitai site for RNZI should be on the air in January, with one 100 kW xmtr (a second one may come later), and an antenna array covering the frequency range from 9 to 18 MHz, and the geographical range from the Cook Islands to PNG.

It's also reported that NZ will soon be getting its first private SW station! This will be 2XA Print-Disabled Radio, which is currently only on 1602 kHz MW, from Levin (in the southern North Island, between Otaki and Palmerston North). They'll be using a 75 mb frq, between 3900 and 4000 kHz (as yet unassigned), with a 990 Watt xmtr, and a 19-metre high inverted-V antenna oriented NE-SW. When will it be on the air? Good question! Arthur Cushen reports (same source as above) that it will be on soon, running 0630-1000 Sunday/Monday/Thursday; while Bryan Clark in Auckland reports (on the 8/13 "Communicator" px) that SW broadcasts will start 1 January 1990, and that they'll be on the air 9 AM to 11 PM local time. (Daily?) Whenever it's on, it'll really be something to look for! (By the way, Arthur Cushen reports that the station's address is P.O. Box 360, Levin, New Zealand.)

Remember those proposed frequency changes for the PNG regional stations that were the talk of the town some months ago? Well, Gordon Darling (who lives in PNG, and thus should know) reports (on the 8/6 "Communicator" px) that the changes are "a long way off," due to problems of coordination with foreign broadcasters. He says that all the PNG regionals are currently operating on their old frequencies, except for Radio Enga on 2410 kHz, which is currently off the air due to equipment problems.

There's a lot of news to report from the Indian subcontinent, thanks to a report from Manosij Guha on the 8/10 "Media Network." Firstly, AIR was testing two new 250 kW xmtrs at the Khampur site (near New Delhi) during the first three weeks of July--and the tests should be restarting soon. Look for them on this sked: 1000-1100 w/GOS in EE on 21555//21670; 1330-1500 w/GOS in EE on 9525//11850; 1515-1745 w/px in Swahili/Hindi/Gujarati on 9525//15360.

Mr. Guha also reports that the new 10 kW HS relay transmitters at Port Blair and Leh, as well as the External Service 50 kW transmitter at Gorakhpur, are all installed and are ready to go on the air. However, the Ministry of Communications hasn't given AIR the frequency assignments yet, due to what Mr. Guha referred to as "bureaucratic wrangling." (Is that anything like tag-team wrestling?) I guess we'll all have to be patient just a little bit longer.

Also, Mr. Guha reports that AIR engineers have installed a new 50 kW xmtr at Thimpu, a gift of the Indian Government to the Bhutan BS. This transmitter, when put into use, will be operating on 9615 kHz during local days and on 6035 kHz during local nights. Wonder if we'll be able to log it over here?

In closing, if you're a full member, don't forget to vote in the BOD election; your vote is important. Remember, many SW clubs don't let members vote for their leaders--but, hey!, SPEEDX isn't just any club!

Back next month, OK?

QSL REPORT



Ray Forsgren 4856 Inlet Drive Chippewa Falls, WI 54729

AFRICA

- ASCENSION ISLAND/ VoA Relay: 17810 f/d cd in 89 ds. (Washburn-ME).
CENTRAL AFRICAN REPUBLIC/ R Centrafrique: 5035 p/d Map cd in 40 ds after several f-ups for a FF rpt & ms. V/S Michel Bata. (D'Angelo-PA).
EQUATORIAL GUINEA/ R Nacional Malabo: 6250 p/d personal ltr w/ political sticker in 60 ds after 2nd f-up for a SS rpt & \$3. V/S Cipriano Somori Suakin. (Evans-TN).
KENYA/ VoK: 4934 f/d Aerogramme in 97 ds for \$1. (Eckert-PA).
LESOTHO/ LNBS: 4800 f/d Flag cd in 192 ds for an irc. (Kunkel-CA).
MADAGASCAR/ RN Relay: 21480 f/d Madurodam cd in 17 ds. (Brown-IL).
SENEGAL/ ORTS: 4890 f/d Map-Logo cd w/ sticker in 90 ds for a FF rpt & an IRC. (Card-RI).
SOUTH AFRICA/ Radio RSA: 9615 f/d Canyon cd in 19 ds. (Brown-IL). 21535 f/d cd in 13 ds. (Lemke-AB). 21590 f/d cd in 16 ds. (Willers-SW).

ASIA

- BANGLADESH/ R Bangladesh: 17710 n/d Tiger cd in 180 ds for an irc. (Card-RI).
ISRAEL/ KOL Israel: 11585 f/d Logo cd in 33 ds w/ sked for a tri rpt (Willers-SW). 15485 f/d cd in 45 ds. (Lemke-AB).
JAPAN/ R Japan: 17825 n/d Kyoto cd w/ goodies in 26 ds. (Lemke-AB).
NHK Sapporo: 6005 f/d Studio cd w/ ltr in 18 ds for an irc. (CA-Kunkel).
JORDAN/ R Jordan: 9560 f/d Globe cd w/ sked in 20 ds. (Willers-SW). f/d cd w/ sked in 199 ds. V/S R. Aikher. (D'Angelo-PA).
MALAYSIA/ RTM Kuching: 7160 f/d B'casting House cd in 34 ds for an irc. (Kunkel-CA).
MONGOLIA/ RUB: 12015 f/d Radio Waves cd in 128 ds for \$1. (Washburn-ME).
NORTH KOREA/ R Pyongyang: 9977 f/d Snow Drops cd in 2 mo (Allred-EC).
PAKISTAN/ PBC: 11570 p/d Map-Logo cd w/ sked in 51 ds (Willers-SW).
SRI LANKA/ DW Relay: 11950 n/d Relay cd in 58 ds for an irc. (CA-Kunkel).
SYRIA/ R Damascus: 15095 f/d Globe cd w/ sticker in 190 ds after 5th try for ms. (George-MA). f/d cd w/ flag & postcard in 314 ds for an irc. (Russell-AL).
TURKEY/ Turkiye Polis Radyosu: 6340 f/d cd w/ info in 158 ds for an irc. (D'Angelo-PA).
U.A.E./ Voice of UAE: 11985 f/d Folder cd in 35 ds (Washburn-ME). 13605 p/d folder in 31 ds. V/S Ahmed A. Shouly. (Gerstner-FL).

EUROPE

- AUSTRIA/ RAI: 9875 f/d Costumes cd w/ skeds in 31 & 38 ds. (Lemke-AB). f/d Carinthia cd in 32 ds for 2 ircs. (Gears-IL).
BELGIUM/ BRT: 9925 f/d Townhall cds w/ goodies in 40 ds for 2 ircs. (Gears-IL).
BULGARIA/ R Sofia: 7115 f/d Stadium cd w/ sked in 91 ds. (Lemke-AB).
CZECHOSLOVAKIA/ R Prague: 5930 f/d Monastery cd in 42 ds for 2 ircs. (Gears-IL). 7345 f/d Building cd in ?? ds (Willers-SW).
FRANCE/ RFI: 17620 f/d Paris scenes cd in 50 ds. (Russell-AL).

We've only begun to scratching the ice on Europe....

G.D.R. RBI: 9730 f/d cd w/ mucho goodies in 22 ds for ms. (Pfeifle-NY). 11785 f/d Castle cd w/ goodies in 35 ds for 2 ircs. (Gears-IL). n/d cds w/ goodies in 36 ds for 2 ircs. (Gears-IL). f/d Freiberg cd w/ goodies in 90 ds for 2 ircs. (Gears-IL). f/d Berlin cd in 93 ds for 2 ircs. (Gears-IL).

G.F.R. DW: 6145 n/d Sri Lanka cd in 139 ds. (Blight-MD). R Free Afghanistan: 15370 & 17895 f/d Map cd w/ sked in 4 ds. (D'Angelo-PA).

GREAT BRITAIN BBC: 9825 p/d cd in 20 ds for a SS rpt. V/S Ofelia Scremini. (Blight-MD). 11845 f/d Bush House cd w/ calendar & sked in 23 ds for a SS rpt (Meinhardt-IL).

GREECE VoG: 9420 f/d Santorini Island cd w/ sked & ltr in 30 ds for 2 ircs. (Gears-IL).

HUNGARY R Budapest: 9835 f/d Costume cd w/ forms in 27 ds. (Lemke-AB). f/d Logo cd w/ skeds in 32 ds for 2 ircs. (Gears-IL).

ITALY RAI: 9575 f/d Painting cd in 84 ds. (Lemke-AB).

NETHERLANDS RN: 5955 f/d Canals of Amsterdam cd in 30 ds for an EE/SS rpt. (Willers-SW). 15315 f/d Madurodam cd in 29 ds. (Gerstner-FL).

NORWAY RNI: 9650 & 15310 f/d Labs & Skiing cds in 27 ds (Lemke-AB).

SPAIN REE: 11790 f/d Painting cd w/ sked in 44 ds for a SS rpt. (SW-Willers). f/d Reina Isabel cd in 3 mo. (Matsushita-JN). 11880 f/d Bullfights cd in 50 ds. (Lemke-AB).

SWITZERLAND SRI: 9885 f/d St. Pauls Gate cd in 60 ds w/ sked for 2 ircs. (Gears-IL). ICRC: 6135 f/d logo cd w/ skeds & info in 20 ds for 2 ircs. (Gears-IL). 12035 f/d cd w/ sked, sticker & info in 42 ds for 2 ircs. (Weber-OH).

VATICAN CITY R Vaticana: 6150 f/d Pope JP II cd in 47 ds (Brown-IL). 7250 f/d Photo cd in 19 ds for an EE/II rpt. (Willers-SW). 9645 f/d x'mitter cd in 56 ds. (Lemke-AB). 15120 f/d Gardens cd w/ skeds & stickers in 90 ds for 2 ircs. (Gears-IL).

YUGOSLAVIA R Yugoslavia: 11735 f/d Jelsa cd w/ skeds & info in 32 ds for 2 ircs. (Gears-IL).

U.S.S.R.

R Moscow: 12050- Khabarovsk; 15260- Baku f/d cds in 57 ds. (Russell-AL). 9540- Petropavlosk Kamchatsky; 11750- Lvov; 11850- Vinnitsa; 15135- Vinnitsa; 15290- Simferopol; 17560- Zhigulevsk f/d cds in from 46 to 60 ds. (Weber-OH). 17775- Frunze f/d cd in 70 ds. (CA-Flynn). 11840 f/d cd w/ sked & ltr in 65 ds for 2 ircs. (Gears-IL). 13645- Khabarovsk f/d cd in 7 mo (Fischer-WI)...Sorry, but this one is from R Yerevan!!...

R Yerevan: 15180 f/d cd in 132 ds. (Washburn-ME).

NORTH AMERICA

ALASKA KNLS: 6065 f/d Map cd w/ info in 14 ds (Lemke-AB).

ANGUILLA Caribbean Beacon: 1610 f/d Building cd in 213 ds for a tape & \$1. (Blight-MD).

CANADA RCI: 17820 f/d cd w/ pennant & sticker in 36 ds. (Gerstner-FL). R Japan Relay: 5960 n/d Shirakawa cd w/ goodies in 26 ds. (Bishop-NY). n/d cd w/ goodies in 50 ds for 2 ircs. (Gears-IL). BBC Relay: 15260 n/d cd in 23 ds. (Lemke-AB).

CUBA R Moscow Relay: 11710 f/d cd in 46 ds. (Weber-OH).

MEXICO XEWX: 6165 f/d personal ltr w/ f/d cd & pfc, w/ pennant too in ?? ds for a SS rpt & \$1. V/S Ing. Miguel Angel Barrientos V. (D'Angelo-PA). XEUW: 6020 p/d personal ltr in 70 ds for a SS rpt & ms. V/S Ing. Baltazar Pazos de la Torre. (Russell-AL).

NETHERLANDS ANTILLES TWR: 11930 f/d Flamingoes folder cd w/ sked & ltr in 19 ds for an irc. (Lemke-AB). RN Relay: 21685 f/d Ship cd in 45 ds. (Saarikko-NY).

U.S.A. KVOH: 17775 f/d Control Room cd in 63 ds. (Lemke-AB), R Marti: 11930 f/d Portrait cd w/ sked in 47 ds for a SS rpt. (Meinhardt-IL). VoA: 11930, 15410, 15580 & 17785 f/d cds in from 10 to 16 ds. (Lemke-AB). 15205 f/d cd w/ sked & book in 24 ds. (Willers-SW). 17785 f/d cd w/ forms in 26 ds. (Lemke-AB). WCSN: 9850 n/d cd w/ sked in 48 ds. (Lemke-AB). WHRI: 7365 f/d Globe cd in 10 mo. (WI-Fischer). 9870 f/d cd w/ form in 207 ds. (Lemke-AB). WINB: 15145 f/d Logo cd w/ sked in 91 ds. (Fischer-WI). WRNO: 11965 p/d Earth-Logo cd w/ sked in 30 ds (Meinhardt-IL). 15420 f/d DX Club cd in 62 ds. (Lemke-AB)...Still have some more USA veri's to go.....

WSHB: 9455 n/d form ltr in 10 wks (Allred-EC). 11980 p/d personal ltr in 7 ds after f-up. V/S C.E. Evans. (D'Angelo-PA). 15205 f/d pfl... (prepared form letter)... in 104 ds for a SASE. V/S Thomas A. Nichell. (Blight-MD). WYFR: 15440 f/d Staff cd w/ sked in 44 ds. (Lemke-AB).

OCEANIA

- MARIANAS ISLANDS/ KTW: 11910 f/d Bridge cd w/ pennant & bookmark in 24 ds for ms. (Kunkel-CA). KSDA: 11980 f/d Sticker cd w/ pennant in 70 ds for \$1. (Weber-OH).
- PAPUA NEW GUINEA/ R Gulf: 3245 p/d personal ltr in 77 ds for ms. V/S Mark Auhova. (D'Angelo-PA).
- VANUATU/ R Vanuatu: 7260 f/d Slit Gong cd in 23 ds for \$1. (D'Angelo-PA).

SOUTH AMERICA

- BOLIVIA/ R Panamericana: 6105 f/d Map w/ personal ltr in 19 ds registered for a SS rpt & \$1. V/S Daniel Sanchez Rocha. (D'Angelo-PA).
- BRAZIL/ RadioBras: 11745 f/d Church cd w/ sked & ltr in 55 ds for 2 ircs. (Gears-IL). f/d Rio cd w/ sked in 160 ds. (Bishop-NY). f/d Minas Gerais cd in 180 ds. (Bishop-NY). SRI Relay: 17730 f/d Lausanne cd in 14 ds. (Brown-IL).
- ECUADOR/ HCJB: 6230 f/d Stamps cd in 30 ds (Gears-IL). 9745 f/d Mart yrs cd in 23 ds. (Meinhardt-IL). 11910 f/d Fish cd in 30 ds for a SS rpt. (Meinhardt-IL). f/d cd w/ goodies in 44 ds for a SS rpt. (Meinhardt-IL). 11960 f/d HCJB Stamps cd in 19 ds for a SS rpt. (Meinhardt-IL). f/d cd in 30 ds for a SS rpt. (Meinhardt-IL). 15155 f/d cd in 27 ds. (Meinhardt-IL). f/d Exports cd in 42 ds. (Meinhardt-IL). f/d Simon Bolivar cd in 47 ds. (Meinhardt-IL). f/d cd in 49 ds. (Bishop-NY). 15160 f/d cd w/ ltr in 22 ds for a SS rpt. (Meinhardt-IL). 17790 f/d cd w/ goodies in 41 ds for a SS rpt. (Meinhardt-IL). 21470 f/d cd w/ sked in 41 ds. (Willers-SW). R Nacional del Ecuador: 15270 f/d ltr via the HCJB DXPL, V/S L. Mendoza. (Allred-EC).
- FRENCH GUIANA/ RFI Relay: 9800 f/d Relay cd w/ sked in 40 ds. (Lemke-AB). 15200 f/d Site cd in 17 ds for a FF rpt & an irc. (Kunkel-CA). R Beijing Relay: 11695 f/d Mao cd in 28 ds. (Lemke-AB).
- PARAGUAY/ R Nacional: 6025 & 9735 n/d form ltr w/ travel info in 30 ds for a SS rpt & \$1. V/S Carlos Montaner. (D'Angelo-PA).
- VENEZUELA/ R Tachira: 4830 n/d personal ltr in 2 mo for a SS rpt & \$1 (Allred-EC). p/d ltr in 71 ds after f-up for a EE/SS rpt & \$1. V/S Eleaxar Silva M. (Weber-OH).

UTILITIES

- ECUADOR/ HD2IOA: 7600 f/d Sundial cd w/ ltr & stickers in 11 mo. (WIFIsher)... V/S Victor Yepez Valararezo...
- GREAT BRITAIN/ Lands End Radio: 2679 f/d ltr w/ sked in 93 ds for ms. V/S Bryan Faulkner. (George-MA).
- TAIWAN/ BSF: 10000 f/d Clock cd in 106 ds for a tape. (Blight-MD). 15000 f/d Memorial Hall cd w/ info & ltr in 13 ds for 2 ircs- which were returned. V/S Teng Yuan-Cheng. (Flynn-CA).
- U.S.A./ ACZ: 379 f/d pfc in 8 ds after f-up for ms. (O'Connor-NH). KGC522: 33780 f/d pfc w/ ltr, maps, info & patch in 13 ds for ms- which were returned. (O'Connor-NH).
- ZAIRE/ 9PL: 8903 p/d ltr recieved via Courier Express in 27 ds for an irc. (O'Connor-NH)... now there's a first!...
- SHIPS/ NNNØCUX: 14483.5 f/d pfc in 18 ds for ms. (Gerstner-FL). GUYC: 16463.1 f/d pfc in 27 ds for an irc- which was returned. (O'Connor-NH). HO-6577: 16463.1 f/d pfc in 49 ds for an irc- which was returned. (O'Connor-NH). GDGK: 16463.1 f/d pfc w/ picture cd in 109 ds for an irc. (O'Connor-NH).
- AIRCRAFT/ ELDK9: 8207.4 f/d pfc in 16 ds for ms. (Gerstner-FL).

73 Everyone!!,

Ray

UTILITY SCENE

Editor: Paul Lannuier, N2HIE

25 Mac Arthur Avenue, Closter, New Jersey 07624

Voyager & Neptune: Man's Ultimate DXpedition

As we go to the press this month, VOYAGER 2 is making its way towards Neptune for a rendezvous on 24 August 1989. It is only fitting that we pay tribute to this fabulous spacecraft and its unequalled accomplishments in interplanetary exploration and discovery.

Voyager 2 was designed and built by NASA's Jet Propulsion Laboratory in Pasadena, CA. It carries much on-board scientific data-gathering equipment including ultraviolet and infrared spectrometers, high-definition imaging cameras, and devices for measuring geomagnetic activity, chemical composition, temperature, atmospheric pressure and such. The transmitters used by the spacecraft to return this information to Earth (via wide-band FM multiplex) were designed to produce approximately 22 watts output power. Operating frequencies include 2296.4815, 8412.2840, 8415.0000 & 8420.4300 MHz. Numerous on-board system failures aboard Voyager have resulted in a drastic reduction in transmitter output power, believed now to be approximately 4 watts. Path loss over 2.8 billion miles between Neptune and Earth would effectively reduce the strength of this signal to a fraction of a billionth of a watt by the time it reaches the Earth just over 4 hours after the time of transmission from Voyager. (DXers will note that this works out to be about .7 billion miles per watt! Try that on 20 Meters.) Ground stations must make the most of the weak signals received from Voyager. Three main ground antennas in Australia, Spain and California, in addition to many others worldwide, are arrayed together to enhance the reception. A data-rate of 21.6K bits per second can be achieved by arraying.

Launched in 1977, Voyager 2 was originally intended to only visit the two giant planets in the outer solar system, Jupiter and Saturn. It reached them in 1979 and 1981, respectively. After Saturn, it went on to Uranus in 1986 to discover 10 previously undetected moons, many narrow rings around the planet and an unusual 60 degree tilt of Uranus' magnetic axis relative to its rotational axis. Voyager-2 will have come to within 3000 miles of Neptune by 24 August 1989.

Already Voyager has discovered a huge dark spot on Neptune, much like Jupiter's Great Red Spot, as well as two partial rings of debris orbiting the planet. In addition, four previously undiscovered moons in orbit around Neptune were detected as Voyager closed in. These new moons are presently known by their astronomical identifiers: 1989 N1, 1989 N2, 1989 N3 & 1989 N4. This brings Neptune's total moon count up to six; already discovered are Triton and Nereid.

After the first of the four moons was discovered, the following was written in Space News (July 24, 1989):

Neptune's new moon, 1989 N1, is becoming a new guidepost for the Voyager navigation team and is a candidate to help better determine the location of Neptune itself.

Neptune was discovered in 1846, and the planet takes 165 years to orbit the Sun; thus, Neptune won't return to the position where astronomers first saw it until 2011. This leaves great uncertainty in the precise knowledge of Neptune's orbit that Voyager navigators need to get the spacecraft to the

targeted area of the planet at the right time. But the new Neptunian moon, 1989 N1, will provide the navigation team with a better idea of Neptune's exact location.

"The discovery of the moon fulfilled expectations of Voyager navigators who were hoping to find at least one new object in the Neptune system whose orbit could potentially be used to gauge the relative positions of Triton, Neptune and various background stars", said Don Gray, Voyager Navigation Team Chief.

Many of the images coming back from the spacecraft are optical navigation frames. Ideally, the frames show a moon against a field of stars. Using stars as dim as 10th magnitude as reference points, the Voyager navigators progressively update and refine the location of Neptune and its moons. This new information is then integrated into commands that adjust Voyager's flight path and retarget the spacecraft's observations, if necessary.

The next trajectory correction maneuver is being designed and will be uplinked to the spacecraft late next week. The maneuver is one of the final three that will be conducted between now and closest approach to bring the spacecraft within about 100 miles (150 kilometers) of the point at which it's aimed -- about 3,000 miles (4,850 kilometers) from Neptune's cloud tops."

The following table shows data regarding the new moons as well as other known orbital bodies:

<u>Moon or Ring Arc</u>	<u>Orbital Radius</u>	<u>Orbital Period</u>
Postulated Inner Arc	42,000 km	6 hours (+/-)
1989 N3	52,000 km	8 hrs 10 mins
Postulated Interior Arc	57,000 km	9 hours (+/-)
1989 N4	62,000 km	10 hrs 20 mins
Postulated Outer Arc	67,000 km	12 hours (+/-)
1989 N2	73,000 km	13 hrs 30 mins
1989 N1	117,650 km	26 hrs 56 mins
Triton	354,590 km	5 days 21 hrs
Nereid	5,510,660 km	359 days

Orbital radius dimensions are taken with respect to Neptune's geocenter.

To calculate the distance from Neptune's cloud tops, subtract one Neptune radius (24,712 km) from each orbital radius listed above.

As we read this, Voyager 2 has already left Neptune behind and is heading out of our small solar system into interstellar space at over 40,000 MPH. A pass of the final remaining planet, Pluto, is not possible due to that planet's eccentric orbit which at this time places it closer to the Sun than Neptune. It is not known how much longer Voyager will continue operating, but it is hoped to remain in operation until after it escapes the gravitational effects of our solar system.

SOURCES: Peter E. Yee • NASA Ames Research Center, Moffitt Field, CA, via SPACE NEWS (24 July 1989) by KD2BD • KD6TH-4 PBBS, Communications Satellites by Larry Van Horn; and an article in THE NEW YORK TIMES (15 August 1989).

Book Review

THE CANADIAN MILITARY RADIO FREQUENCY GUIDE by Robert S. Ing is now available to radio enthusiasts from the author (PO Box 378, Postal Station O, Toronto, ON, CANADA M4A 2N9) for \$12.00 (+ \$2.50 S/H; Canadian funds only). Now in its second printing, it is believed to be the only book of its kind dedicated to the Canadian

Forces radio frequencies. The publication is 53 pages, plastic-spiral bound, and is divided into the following sections: Introduction, Map of CFARS Callsign Zones, Abbreviations & Symbols, Radio Frequency Index (listing all modes), CW Transmission Index, FAX Transmission Index, RTTY Transmission Index, Voice Transmission Index, Canadian Military Callsign List, Canadian Maritime Military Vessel Callsign List, and Canadian Military Establishments (including addresses). Despite a few duplicate frequency listings, this is a very useful guide for those who need a comprehensive list of this type.

Time Signal Station News

Mike Hardester reports the Australian station VNG back in operation on 10 MHz, heard under WWV with ID and time announcements at 0614 UTC on 6 August. Closer to our part of the world, your editor heard YVTO in Caracas, Venezuela, on a frequency of 5 MHz at 0330 UTC, 11 August. Usually on 6100.0 kHz, this is the first time I've noticed YVTO here. ID: "Observatorio Naval Cagigal, Caracas, Venezuela" plus time announcements in Spanish.

Fixed Coastal and Naval Stations

KHz	MODE	COUNTRY	CALL	LOCATION	UTC	REMARKS	CONTRIBUTOR
4225.0	CW	Mexico	XFM	Manzanillo Radio	0522	CQ Marker	Morby-NY
4232.0	CW	Martinique	FUF	Fort de France Naval	....	French Navy	Moon-RSA
4234.0	CW	Malaysia	9MB	Penang Naval	....	Malaysian Navy	Moon-RSA
4244.0	CW	South Africa	ZRH	Fisantekraal Naval	....	RSA Navy, V Marker	Moon-RSA
4246.0	CW	South Africa	ZRQ	Simonstown Naval	....	RSA Navy	Moon-RSA
4247.0	CW	South Africa	ZRQZ	Cape (Simonstown) Naval	....	RSA Navy	Moon-RSA
4295.0	CW	France	HWN	Paris-Houilles Naval	....	French Navy	Moon-RSA
5320.0	CW	USA	NIK	COMSTA Boston, MA	0118	USCG. Wx & tnx to all who reported ice conditions.	Morby-NY
6903.0	USB	South Africa	....	Cape Town	....	Oil rig traffic	Moon-RSA
7505.0	CW	USA	NMN	Portsmouth, VA	....	USCG	Moon-RSA
8605.0	CW	South Africa	....	Cape Town Radio	....	Marker	Moon-RSA
8694.0	CW	Angola	D3E41	Luanda Radio	....	Marker	Moon-RSA
8711.5	CW	Australia	VIS	Sydney Radio	1125	SITOR Marker	Morby-NY
9401.0	RTTY	Belgium	OST	Ostend Radio	....	SITOR-A: Idling	Moon-RSA
10044.0	CW	Israel	4XZ	Hai fa Naval	....	Israeli Navy	Moon-RSA
10333.5	USB	South Africa	....	Cape Town Radio	....	Wx report	Moon-RSA
12691.0	CW	Reunion	FUX	Le Port Naval	1355	French Navy, V Marker	George-MA
12740.0	CW	France	HWN	Paris-Houilles Naval	....	French Navy	Moon-RSA
12826.5	CW	Japan	JCS	Choshi Radio	1702	CQ Marker	Morby-NY
12857.0	CW	Senegal	6W4	Dakar Naval	....	French Navy	Moon-RSA
12952.5	CW	Australia	VIS5	Sydney Radio	1135	V Marker	Morby-NY
13023.5	CW	Angola	D3E	Luanda Radio	....	Marker	Moon-RSA
13045.0	CW	USSR	ROT	Moscow Naval	1712	Soviet Navy, CQ Marker	Morby-NY
14394.0	RTTY	Chile	CCM	Magellanes Naval	2145	850/50: Chilean Navy, Cig ZRH	Conway-UK
16861.7	CW	Indonesia	PKX	Jakarta Radio	0708	CQ Marker	Conway-UK
16925.0	CW	USSR	URL	Sevastopol Radio	0835	CQ Marker	George-MA
17007.0	CW	Netherlands	PCH61	Scheveningen Radio	0100	DE Marker	Yarborough-NC
19690.0	CW	Saudi Arabia	HZY	Ra's Tannurah Radio	1155	Tfc list	George-MA
22336.0	CW	Taiwan	XSW	Kaohsiung Radio	0818	CQ Marker & tfc list	Conway-UK
22336.2	CW	Saudi Arabia	HZG	Damman Radio	0951	DE Marker	Conway-UK
22378.0	CW	India	VTG9	Bombay Naval	0218	Indian Navy, V Marker	Conway-UK
22396.0	CW	Japan	JOS	Nagasaki Radio	0624	CQ Marker	Conway-UK
22398.0	CW	Japan	JNA	Tokyo Radio	1213	Meteo	Conway-UK
22431.0	CW	Zaire	9PA	Banana Radio	1343	V Marker	Conway-UK
22448.7	CW	England	GKB1	PortLishead Radio	1552	CQ Marker	Kurada-JP
22450.0	CW	USSR	ROT	Moscow Naval	0957	Soviet Navy, V Marker	Conway-UK
22455.0	CW	South Africa	ZSC40	Cape Town Radio	1736	Wx Broadcast	Conway-UK
22459.0	CW	Taiwan	XSX	Keelung Radio	0700	CQ Marker	Conway-UK
22463.0	CW	Japan	JCU	Koshi Radio	0659	CQ Marker	Conway-UK
22467.0	CW	USA	KLC	Galveston Radio, TX	1754	Wkg 3FGB2	Conway-UK
22471.5	CW	Greece	SVD	Athens Radio	2200	DE Marker	Lannuier-NJ
22474.0	CW	Australia	VIS42	Sydney Radio	0656	V Marker	Conway-UK
22482.0	CW	South Korea	HLG	Seoul Radio	0835	CQ & QTC list	Conway-UK

22515.0 CW	USA	KFS	San Francisco Radio, CA	1553	CQ Marker	Kuroda-JP
22520.0 CW	USSR	UQK	Riga Radio	1352	DE Marker	Conway-UK
22527.0 CW	Guam	NRV	COMMSTA Barrigada	0646	USCG. CQ Marker	Conway-UK
22536.0 CW	Hong Kong	VPS22	Hong Kong Radio	1029	DE Marker	Conway-UK
22539.0 CW	Netherlands	PCH71	Scheveningen Radio	1559	CQ Marker	Kuroda-JP
22548.0 CW	Turkey	TAH	Istanbul Radio	1600	CQ Marker	Kuroda-JP
22615.0 CW	France	HWN	Paris-Houilles Naval	1606	French Navy. V Marker	Kuroda-JP

Other Fixed Stations (including Aero and Meteo)

kHz	MODE	COUNTRY	CALL	LOCATION	UTC	REMARKS	CONTRIBUTOR
4410.1	USB	Unknown	....	Unknown	0300	Wx broadcast in unid language. Norway??	Lannuier-NJ
5200.0	USB	Zambia	....	[ Lusaka? ]	....	Police HQ	Moon-RSA
5320.0	RTTY	Libya	SAF	Tripoli Air	....	425/50N: AFTN. Test tape	Moon-RSA
5505.0	USB	Ireland	....	Shannon VOLMET	....	....	Moon-RSA
6330.0	FAX	Canada	CFH	Halifax, NS	0500	120/576: Wx maps	Yarborough-NC
6529.7	RTTY	Libya	SAF	Tripoli Air	....	850/50: AFTN. Tset tape	Moon-RSA
6810.0	RTTY	Unknown	....	Unknown	....	SITOR-A: Tfc in PP	Moon-RSA
6864.0	CW	Unknown	U	Unknown	....	Beacon	Moon-RSA
6873.0	USB	USA	....	Greenville, NC	....	VOA Feeder	Moon-RSA
7542.5	RTTY	France	....	Paris	....	425/50: AFP Nx in EE. [Note: CFL & Kling shows AFP Hong Kong]	Moon-RSA
7677.8	CW	Unknown	U	Unknown	....	Beacon	Moon-RSA
7990.0	RTTY	Tanzania	5HD	Dar es Salaam	....	850/50: AFTN. Test tape	Moon-RSA
8146.6	FAX	Italy	IMB55	Rome	0500	120/576: Wx maps. Poor signal	Yarborough-NC
8825.0	USB	Azores	....	Santa Maria	0136	ICAO NAT-A Area. Wkg QUEBEC KIL0 LIMA 912	Perdue-AL
9147.0	USB	Unknown	....	Unknown	....	Numbers in SS	Moon-RSA
9180.0	USB	USSR	....	Unknown	0400	Radio Moscow feeder in RS	Lannuier-NJ
9187.0	RTTY	Niger	5UA	Niamey	....	425/50: AFTN/ASECNA. RYRYRY	Moon-RSA
9435.0	USB	Unknown	....	Unknown	....	Numbers in EE	Moon-RSA
10070.0	USB	Unknown	....	Unknown	....	Numbers in SS	Moon-RSA
10385.0	RTTY	China	BAA21	Tianjin	1520	350/50N: Meteo	Berri-CA
10551.0	RTTY	England	....	Bracknell	....	425/50N: Meteo	Moon-RSA
11150.0	USB	USA?	....	Greenville, NC?	0245	VOA Feeder in SS	Lannuier-NJ
11175.0	RTTY	Tanzania	5HD	Dar es Salaam	2050	170/50: AFTN. RYRYRY & tests	Conway-UK
11200.0	USB	England	MVU	RAF VOLMET, West Drayton	0250	Meteo	Lannuier-NJ
11297.0	USB	USSR	....	unid VOLMETS	0218	Presumed Alma Ata & Tashkent	Lannuier-NJ
11359.0	CW	USSR	RFNV	Moscow	0214	Meteo. Off at 0216	Lannuier-NJ
11387.0	USB	Australia	....	Sydney VOLMET	2102	Wx broadcast	Conway-UK
11541.0	RTTY	South Yemen	70C	Aden	1924	425/50: AFTN. RYRYRY	Conway-UK
12174.0	RTTY	Ethiopia	ETD3	Addis Ababa	2055	170/50: AFTN. 'VJA' circuit. DE Marker	Conway-UK
12175.0	USB	USSR	....	Unknown	....	Radio Moscow Feeder	Moon-RSA
12236.5	CW	Indonesia	PLZC	Ujang Padang	....	[ PLZC?]	Moon-RSA
12750.0	CW	Unknown	VH12	Unknown	....	Marker	Moon-RSA
13254.0	USB	Canada	CJX	St. John's Military, Nfld	1626	RCAF. Wx for Gander & Goose Bay	Morby-NY
13636.0	CW	Unknown	F	Unknown	....	Beacon	Moon-RSA
13736.0	RTTY	Kenya	5YD	Nairobi	2355	850/50R: RYRYRY & tests	Flynn-CA
13852.0	RTTY	Zaire	....	Kinshasa	....	170/50N: Tfc	Moon-RSA
13869.0	RTTY	Zaire	....	Kinshasa	....	SITOR-A: Diplo tfc	Moon-RSA
13870.0	RTTY	Burundi	9UA	Bjumbura	1940	425/50: AFTN. 'BDA' circuit. Tfc to Dar es Salaam	Conway-UK
14370.5	RTTY	Saudi Arabia	HZJ	Jeddah	2143	425/50R: AFTN. RYRYRY	Kuroda-JP
14464.0	RTTY	Congo	TNL	Brazzaville	....	425/50: AFTN/ASECNA	Moon-RSA
14497.0	RTTY	Azores	CSY	Santa Maria	2143	850/50: AFTN. DE Marker	Conway-UK
14508.0	RTTY	Cape Verde Is.	D4B	Sal	0820	850/50: AFTN. 'CMA' circuit. Tfc	Conway-UK
14786.0	RTTY	Zaire	9PL	Kinshasa	2220	425/50R: AFTN. Line test	Kuroda-JP
14880.0	RTTY	Japan	....	Tokyo	....	850/50N: Meteo	Moon-RSA
15000.0	CW	Taiwan	BSF	Chung-Li	1612	Time Signals. ID & local time in CW	Flynn-CA
15031.0	USB	Canada	VXA	Edmonton, Alta	0045	RCAF. Wkg CANFORCE 109	Lannuier-NJ
15035.0	USB	Canada	VXA	Edmonton, Alta	1620	RCAF. Aero Wx	Lannuier-NJ
15655.0	CW	Unknown	U	Unknown	0136	Channel Marker	Morby-NY
15911.0	RTTY	East Germany	Y7A61	Berlin	1230	425/50N: ADN Nx in GG	Kuroda-JP
15934.0	RTTY	Egypt	....	Cairo	1430	425/50N: MENA Nx in EE. New frequency	Kuroda-JP
16347.0	RTTY	Cuba	....	Havana	2005	425/50R: TASS Nx. Mostly garbled	Flynn-CA
17525.0	RTTY	Czechoslovakia	QLV23	Prague	1200	425/50R: CTK Nx in EE	Kuroda-JP

18093.0 FAX	Argentina	LR084	Buenos Aires	1900	120/576: Servicio Met. Nacional. Wx maps	Yarborough-NC
18174.0 USB	North Korea	...	Pyongyang	0450	"This is Korean Central Wireless Station in Pyongyang" by YL	Kuroda-JP
18210.0 RTTY	Bulgaria	LZP3	Sofia	0855	425/50: Wkg Beijing w/garbled lfc. Hrd most days at this time	Conway-UK
18383.0 RTTY	USSR	RRQ20	Alma Ata	1235	425/50N: TASS Nx in EE	Kuroda-JP
18388.6 RTTY	Libya	SAF	Tripoli	1939	425/50: AFTN. 1SA/circuit. DE Marker	Conway-UK
18725.0 RTTY	Burma	....	Rangoon	1150	425/50R: Indonesian Embassy. Coded lfc	Kuroda-JP
19242.0 RTTY	East Germany	Y7A75	Berlin	1400	425/50R: MFA. RYRYRY & coded msgs	Kuroda-JP
19400.0 RTTY	India	VVD69	Delhi	1049	170/50: CQ Marker & meteo	Conway-UK
19747.5 RTTY	Senegal	6VU79	Dakar	1610	425/50R: Meteo	Kuroda-JP
19919.0 RTTY	Morocco	....	Tangier	0100	SITOR-A: USIA/VVOA Nx. Daily schedule	Yarborough-NC
20656.0 RTTY	West Germany	....	Unknown	1100	425/50R: DPA Nx in EE	Kuroda-JP
20930.0 USB	Unknown	....	Unknown	1150	Telcom. Europe?	Kuroda-JP
21964.0 USB	Hawaii	....	Honolulu	2340	ARINC. Wkg PAN AM 624 & UAL 53 Flynn-CA	Kuroda-JP
23674.0 RTTY	Vietnam	....	Hanoi	0350	425/50R: Cuban Embassy. Msgs in SS	Kuroda-JP

Aeronautical Mobile Stations

KHz	MODE	NAME	UTC	REMARKS	CONTRIBUTOR
5547.0	USB	ECHO ONE	0652	ICAO CEP-5 area. Wkg Honolulu. "On deck Barbers Point NAS, Hawaii"	Calligan-CA
5547.0	USB	QANTAS	0537	ICAO CEP-5 area. Wkg San Francisco w/seicat check. On ground at LAX	Calligan-CA
5598.0	USB	GERMAN AIR FORCE 4007	0230	ICAO NAT-A area. Position report to New York	O'Connor-NH
5628.0	USB	JAPAN AIR 10	0747	ICAO NP-3/4 areas. Wkg Honolulu	Calligan-CA
5696.0	USB	RESCUE 1504	0930	USCG. Wkg COMNSTA Boston, MA	Calligan-CA
6577.0	USB	BRITISH IBERIA [No. ?]	2311	ICAO E-CAR area. Wkg New York	Perdue-AL
6577.0	USB	COAST GUARD SEARCH	0036	ICAO E-CAR area. Wkg New York. Request for hurricane info	Perdue-AL
6716.0	USB	SAM 60203	2351	USAF. Wkg Andrews AFB, MD	Alexander-PA
6728.0	USB	SPAR 60	2258	USAF. Wkg Andrews AFB, MD	Alexander-PA
6756.0	USB	AIR FORCE 2	0245	USAF GCCS. Wkg Andrews AFB, MD	Alexander-PA
6790.0	LSB	SAM 31683	2334	USAF. Wkg Andrews AFB, MD	Alexander-PA
6812.0	USB	SAM 31681	2056	USAF. Wkg Andrews AFB, MD	Alexander-PA
6993.0	USB	SAM 60206	2218	USAF. Wkg Andrews AFB, MD	Alexander-PA
8825.0	USB	AIR EUROPE 145	0231	ICAO NAT-A area. Wkg New York	O'Connor-NH
8846.0	USB	DOMINICANA 904	0020	ICAO CAR-A area. Wkg New York	Perdue-AL
8846.0	USB	WRANGLER 106	2316	ICAO CAR-A area. Wkg New York	Perdue-AL
8861.0	USB	N393BB	0651	ICAO SAT-1 area. Wkg Dakar	Calligan-CA
8921.0	USB	CATHAY 530	1124	LDOC. Patch to company re anti-skid problems	Calligan-CA
8921.0	USB	LTU 193	0220	LDOC. Clg LTU Dusseldorf	O'Connor-NH
8942.0	USB	CATHAY 708	1225	ICAO SEA-2 area. Wkg Ho Chi Min	Calligan-CA
8942.0	USB	HONG KONG 532	1236	ICAO SEA-2 area. Wkg Hong Kong	Calligan-CA
8942.0	USB	INDONESIAN 875	1227	ICAO SEA-2 area. Wkg Singapore	Calligan-CA
8976.0	USB	LOCKHEED 5820	2036	Flight tests. Position reports, etc.	Calligan-CA
8989.0	USB	CONEY 42	0339	USAF GCCS. Wkg McClellan AFB, CA	O'Connor-NH
8989.0	USB	MAC 50006	0130	USAF GCCS. Wkg McClellan AFB, CA	O'Connor-NH
8993.0	USB	MAC 60183	0219	USAF GCCS. Wkg MacDill AFB, FL	O'Connor-NH
8993.0	USB	MAC 60463	0247	USAF GCCS. Wkg Ascension Is.	O'Connor-NH
9006.0	USB	SAM 60202	0320	USAF. Wkg Andrews AFB, MD	Alexander-PA
9017.0	LSB	SAM 24126	0037	USAF SAC/SAM. Wkg Andrews AFB, MD	Alexander-PA
9270.0	LSB	SAM 60200	0254	USAF. Wkg Andrews AFB, MD	Alexander-PA
11055.0	LSB	SPAR 60	0116	USAF. Wkg Andrews AFB, MD	Alexander-PA
11118.0	LSB	SAM 60200	0301	USAF SAC. Wkg Andrews AFB, MD	Alexander-PA
11176.0	USB	MAC 160TH	0555	USAF GCCS. Position 119 miles NW of Orlando. "Beautiful night."	Calligan-CA
11246.0	USB	ELVIS 03	2157	USAF GCCS. Wkg MacDill AFB, FL	O'Connor-NH
11246.0	USB	NAVY 0E09	2210	USN. Wkg MacDill AFB, FL	O'Connor-NH
11246.0	USB	NOVAR 62	2014	USAF GCCS. Wkg MacDill AFB, FL	O'Connor-NH
11300.0	USB	GAMBIA 1930	2128	ICAO AFI-3 area. Wkg Khartoum	O'Connor-NH
11384.0	USB	CONTINENTAL 999	0950	ICAO CWP-2 area. Wkg Honolulu w/radio check on 6532.0 & 11300.0 kHz	Calligan-CA
13204.0	USB	SAM 60200	2228	USAF TAC. Wkg Andrews AFB, MD	Alexander-PA
13244.0	USB	CISCO 72	2206	USAF GCCS. Wkg MacDill AFB, FL	O'Connor-NH
13244.0	USB	MAC 106TW	2158	USAF GCCS. Wkg Ascension Is.	O'Connor-NH
13244.0	USB	MAC 70012	2158	USAF GCCS. Wkg MacDill AFB, FL	O'Connor-NH

13244.0	USB	MILK 19	2238	USAF GCCS. Wkg Ascension Is.	O'Connor-NH
13247.0	LSB	SAM 31683	2012	USAF GCCS/SAM Wkg Andrews AFB, MD	Alexander-PA
13300.0	USB	TIGER 75	0742	ICAO SP-6/7 areas. Flying Tiger wkg Naha & Manila	Calligan-CA
13348.0	USB	DELTA 1571	2008	LDOC. Phone patch via Atlanta to company	Calligan-CA
13440.0	LSB	SAM 86974	2120	USAF. Wkg Andrews AFB, MD	Alexander-PA
13445.0	USB	SAM 86972	2032	USAF. Wkg Andrews AFB, MD	Alexander-PA
13485.0	USB	TROUT 99	2330	USAF. Wkg Andrews AFB, MD	Alexander-PA

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MISC. TFC: "Thanks" to Dick Moon for another great batch of loggings.. "Welcome Back" to Neal Perdue after a brief 'sick leave' from the hobby! hi!... Next month we'll feature Maritime Mobile Stations. Unless I start getting death threats in the mail, I will continue to alternate between Aero and Maritime Mobile each month.

CORRECTIONS: Last month I inadvertently listed Andrews AFB as being in California. Of course, we all know it is in Maryland. Also, the USS AQUILA is capable of 50 kts., which stands for knots, not kilotons! Sorry for the errors.

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See you in October. 73 de



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