

SPEEDX

MAY, 1990

Volume 20, Number 5

Well, it's time again for another one of these messages to the SPEEDX membership, outlining some of what's been going on in club business over the past few months.

If you've been reading the masthead on the back cover, you'll have noted that Peggy Thompson has taken over the Vice-Presidency from Ed Janusz. Ed felt that, with all his other club duties, he didn't need to be our Dan Quayle, too. Peggy, with her previous service to the club as both President and Vice-President, was a logical choice to take on the post.

There's another transition taking effect this month, as David Jones passes the job of Central Distribution Editor over to Ed Cichorek. Over the past months, the mail service in and out of David's part of Tennessee has been, quite frankly, unreliable. This has led to cases of contributions to the CDE not reaching David, and to material from David not reaching the editors in time to make the columns. David has coped as best he could, for which we owe him our thanks, but this unsatisfactory mail service has proven to be just too big a problem to overcome. The mail in and out of Ed's area of New Jersey is quite good, so these problems should be a thing of the past. You can begin sending your CDE contributions to the following address:

Ed Cichorek
P.O. Box 215
New Brunswick, NJ 08903

I'm happy to say that David will continue to serve SPEEDX by coming up with illustrations for use on the cover and in the magazine. (This should mean, I sincerely hope, that these messages I write will never have to clutter up the cover again!)

We're still looking for SPEEDX'ers to serve as backup and/or prospective column editors. The previous call which Woody Seymour, our Managing Editor, made has brought forth a few names, but we could always use more. If you're interested in helping out the club, and you'd like a bit of ego gratification by appearing in print each month, you're welcome to get in touch with Woody at:

P. O. Box 848
Sanford, NC 27331-0848

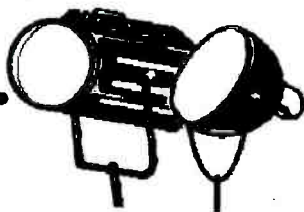
Something which has been under discussion recently is the possibility of running a survey of the membership, in order to get a better idea of what people like and dislike about the club and the magazine. If and when we do, we hope that you'll reply in detail, so that we'll be better able to serve you. Of course, you don't need to wait until receiving a survey form to pass on your suggestions on how we can improve the club, and on what you'd like to see in the magazine. Editors and club officials are always grateful to receive your comments, since such feedback is the only way to know if we're really doing the job you expect from us.

In closing, I'd like to comment on the recent change of leadership at ANARC. I've known and worked with the new Interim Coordinator of ANARC, Sheldon Harvey, for some years now. He's shown himself to be a whiz at publicizing radio monitoring to the general public, and has some interesting new ideas for using ANARC as a resource to help member clubs do the same. If anyone can achieve this task of taking ANARC in new, and more promising, directions, Sheldon can. A revitalized ANARC, which will also be giving more of a boost to the member clubs than has been true in the past, is a welcome prospect, which should bode well for the state of our hobby.

23 ——— *Bill Westenhaver*

2. SPOTLIGHTS/DX MONTAGE, John Trautschold 6. CONTINUOUS TUNING, Ed Janusz 10. WHAT'S ON (Update), Daniel Sampson 11. LATIN NOTEBOOK, Carl Huffaker 14. TECHNICALLY SPEAKING, Kent Willis 16. WESTERN HEMISPHERE, Thomas F. Sable 19. EUROPE, Daniel Sampson 23. USSR, Jason Berri 25. AFRICA, Don Thornton 29. ASIA/OCEANIA, William Westenhaver 34. QSL REPORT, Ray Forsgren 37. UTILITIES, Paul Lannuier

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.....)

MAY 1990

TOTAL CONTRIBUTORS: 43

1 ASHIMORI, TSUNAOKI	JP	1 MORBY, LINDA SUE	NY R5000
6 BERRI, JASON	CA R5000	2 MORTON, PHILIP	NY
4 BRONOWICZ, MICHAEL	MO DX1000	2 McCANTS, DON	AL RF2200
5 BROWN III, EDWARD	IL ICF6800W	5 PARK, DALE	HI R5000
10 CARSON, JOHN	OK SPR4	3 PRATH, JOHN	FL NR525
6 CICHOREK, EDWARD	NJ FR8800	1 REESE, ORLA	DE
2 D'ANGELO, RICHARD	PA NC190	5 REEVES, ROBBIE	OR ICF2010
1 EVANS, JAMES	TN IC-R71A	2 ROBINSON, BETSY	TN IC-R71A
5 FAMULARO, RALPH	JP ICF6000A	2 ROUPE, LLOYD	WV NR525
1 FISCHER, GREG	WI NR525	1 RUSSELL, LARRY	MI ICF6800W
1 GEORGE, STEVE	MA R5000	1 SAMPSON, DANIEL	WI FR67700
1 GERSTNER, JOHN	FL DX1000	1 SCOTT, VAL	CA
1 HARRINGTON, ROB	CO	3 SEYMOUR, WOODY	NC SPR4
2 HART, GERALD	MN ICF2010	5 STRINGER, PAUL	NZ
2 JANUSZ, EDWARD	NJ ICF2010	4 THOMPSON, PEGGY	CA FR67
2 JOHNSON, TIM	IL	1 THORNTON, DON	NJ NR525
2 KUNKEL, ROLAN	CA DX440	4 VALENTINE, F.A.	CA IC-R70A
4 LANDAU, ROBERT	NJ NR525	1 WASHBURN, CHARLES	ME R1000
2 LEADER, PATRICK	IR D2615	8 WESTENHAVER, WILLIAM	PQ ICF6500W
2 LEMKE, RICHARD	AB IC-R71A	6 WILLERS, STEVEN	SW NR525
3 MATSUSHITA, YUKIMASA	JP RF2200	6 WRIGHT, PHILIP	NF DX400
1 MOON, DICK	SA		

THE FOLLOWING COLUMNS DIRECT CONTRIBUTIONS WERE NOT RECEIVED IN TIME:
CDE STUFF/NEST HEMIS/QLS/UTILITIES

THE FOLLOWING COLUMNS ARE INCLUDED FROM LAST MONTHS BULLETIN:
CT / AFRICA

Another month has come and gone! Whew...just where does the time fly anyway? Hope you all enjoyed last months special crossword puzzle. You didn't cheat any now, did you? :-)

Anyway, time to get on with business. First of all a correction. Rich D'Angelo's receiver, shown above as an NC190 should really be a IC-R70. One of these days I'll actually get around to updating my computer records.

We've only got one new full member this month, but let's welcome him anyway with a big SPEEDX welcome...

TIM JOHNSON....IL

Congratulations!

We've also got three new or rejoining contributors. Two of these names should be

familiar to those of you who have been with us for awhile. Say hello once again to...

ROB HARRINGTON...CO
ORLA REESE.....DE

The one name you won't recognize is that of...

VAL SCOTT.....CA

As best I can tell, Val is a new member and new contributor to SPEEDX, so welcome to you too Val...nice to have you here!

Our list is rather short this month...didn't receive the list of contributors from our Central Distributions Editor, David Jones, in time for inclusion this month. will certainly include those names in next month's list.

And that's it for now. Have a good month of May and "Be Seeing You" in June! 73 & 88!



DX MONTAGE

LETTERS AND QUIPS FROM 'ROUND THE WORLD!

IN MEMORIAL

A good friend of SPEEDX for many years, Mr. William Miller of California, died recently. Bill supported most of the columns in SPEEDX for many many years...I even remember getting tons of logs from him back in my SPEEDX-GRAM days. Bill Miller will be missed.

"IT COULD ONLY HAPPEN TO EDDIE?" HECK...IT COULD ONLY HAPPEN TO J.T.I

Well...is my face red. And Eddie Janusz didn't even catch it! Sheese! The story in last month's *SPEEDX* wasn't sent in by Ed Janusz but by Ed Cichorek! Oh boy! No wonder we editors get those *Excedren* headaches. Quite honestly, the story was such a good one, I figured that the only person it could ever happen to was Janusz...maybe it's something to do with the name *Ed*... Hmhmhm...

To make up for this *faux faux*, let's run a book review sent in by Ed Cichorek now...I *think* it's by Cichorek anyway....

BOOK REVIEW:

THIS WAS RADIO, by Joseph Julian (The Viking Press)

Reviewed by Ed Cichorek

This book happily found its way to me by way of the prize drawings at the Third Annual Winter SWL Fest. The following review is the direct result of one of the best forms of serendipity I have experienced.

To say that this is simply a book about radio broadcasting would be inaccurate and a disservice to the author. It is much more. This is a story about the atmosphere and people of a time period when radio achieved it's zenith. It is also a personal record and social history of the salad days of broadcasting and the people who shaped it all.

The book is a journey that starts with a determined, young actor in the midst of the depression years. Along the way, the author

develops his craft and offers some insightful and provocative thoughts on radio theater of the era. During the McCarthy years, Mr. Julian is branded by the inquisition. His career is virtually crushed by an obscure reference in a publication called "Red Channels". This paper volume listed over one hundred alleged communist sympathizers involved in the broadcasting industry. It probably ended at least as many careers. The author recounts his struggle and frustration both in and outside the courtroom. Mr. Julian's treatment of the war years and, in particular, postwar Japan is vivid and personal, devoid of the usual statistics and propaganda. The lighthearted side of radio broadcasting is presented in a very human way. The reader is periodically and gently reminded that these were all live performances, resulting in some very creative and hilarious situations. Several incidents in the book had me laughing out loud.

The author never seems to forget the audience and their role in the entire process. He is a believer in the creative role of the imagination and makes some poignant observations about the medium and its visual counterpart. Most striking is how Mr. Julian speaks lovingly of radio as a full and legitimate art form that entertained millions for so many years. He still keeps a candle lit and offers advice and encouragement for its rebirth.

Whether you are old enough to remember the golden days when radio ruled the ether, or just wonder what it was all about, this book should be on your reading list. It's already on my re-read shelf.

THE TOP TEN QSL CARDS THAT I WOULD LIKE TO RECEIVE

(but probably won't)

(With apologies to a certain late-night TV host) by Woody Seymour, Jr.

1. *Radio Pyongyang* - Card showing Kim Il-Sung playing Interval Signal on organ
2. *RAI* - Card showing sleepy newsreader reading English news to North America while in bed
3. *UAE Radio* - Card showing top UAE music group "The Dubai Brothers"

4. *Radio Japan* - Card showing Rockefeller Center in "Japanese Acquisitions" series
5. *Voice of America* - Card showing VP Quayle playing golf
6. *Radio Tirana* - Card of English announcers meeting mailboat in harbor
7. *Radio RSA* - Card showing guitarist and bird performing Interval Signal
8. *Radio Australia* - Map card showing portions of world that RA doesn't broadcast to anymore
9. *Radio Havana* - Card showing Castro with his 1959 Studebaker convertible
10. *Radio Ankara* - Card showing—you guessed it! Gobble Gobble!

SWL HITS THE CAMPUS!

John Carson of Norman, OK, recently sent in an item from the *Wingate Campus Today - Campus News* of March 1990. There was a beautiful picture of one of our fellow DXers with the following caption:

"This semester, Wingate is offering a course that may be unique: international radio broadcasting, taught by professor *Charles Yarbrough, Jr.* Mr. Yarbrough, who is an avid shortwave listener himself, says he's been told there's never been another college course like it. Students log in a required number of hours per week listening to foreign broadcasts from a particular international area. They will be evaluated on their understanding, before and after, of that area of the world."

LET'S GET PERSONAL...LA DE DA...

(to the tune of "Let's Get Physical"...)

We'd all like to know a little bit more about our brothers and sisters that make up the SPEEDX family, so why not drop us at note at *DXM* and let us know about our you and your's?

Did you recently get married, have kids, graduate from school, have a birthday, etc. etc? We'd like to know! Or maybe you've been DXing for a long time and have some grandkids or offspring you'd like to brag about? Then send in the news.

SPEEDX has always prided itself on being one of the friendliest SW clubs around, and this is one more way to give it that extra personal touch. You don't need to write a book, just send in the vital statistics and we'll get 'em printed.

And look out, if this becomes popular, I might even design a special masthead for the section! Now *that* would be worthwhile.

wouldn't it? <tee hee>

PRESIDENT BUSH SPEAKS AT NAB ON TV MARTI

I recently had the opportunity (due to my star-studded job) to attend the recent *National Association of Broadcasters (NAB)* annual convention in Atlanta, GA. Although I wasn't able to attend the actual speech (you had to get there *real* early just to get in...not even worrying about a seat!) I do have a report on what Bush had to say about TV Marti gleaned from the *NAB Daily News*.

"President Bush went before broadcasters Sunday at the NAB '90 and asked the industry to support his administration's TV Marti project, despite continued skepticism of USIA plans to transmit American programming to communist Cuba. The President, who was warmly received by a packed GWCC Ballroom audience, reflected on fast-changing international shifts to democratic rule as the foundation for his "strong support" for the presence of TV Marti.

"In the realm of ideas and ideals, there are no borders. No government should fear free speech, whether it's from entertainment programs or accurate, unbiased news about world events...The voice of freedom will not be stilled as long as there is an America to tell the truth," Bush said.

"NAB President/CEO Eddie Fritts, who introduced the President with NAB Joint Board Chairman L. Lowry Mays, said NAB "wholeheartedly accepts our President's concept of freedom across frontiers." Yet Fritts said "we do have concerns about the technical aspects of TV Marti on two levels: direct interference from the TV Marti signal to Florida stations, and the retaliatory interference to AM stations from Cuba." Fritts noted that although NAB had asked to be included as part of the evaluation for testing, broadcasters were not asked to participate."

By the way, some of the programs being broadcast to Cuba thus far include "Kate and Allie", a rerun of the 1971 World Series, a soap opera and rock videos from MTV. The shows were broadcast from 3:45 and 6:45 a.m. from a balloon floating 2 miles above the Florida Keys.

Castro has fought back. He fired a "warning shot" a few weeks ago with a three hour broadcast of one of his speeches that was picked up loud and clear in the Miami area, interfering with six local radio stations and interrupting

radio shows as far away as Tennessee and North Carolina.

(The above information was gleaned from an article appearing in the March 28, 1990 edition of the *Chicago Tribune*.)

SWEDEN CALLING DX'ERS - A SHORT HISTORY

by Mike Bronowicz - MO

One of the oldest continuous radio programs comes to us from Radio Sweden...Sweden Calling DX'ers. The program, on the air since February 28, 1948, was the brainchild of Arne Skoog. Skoog, a young Swedish engineer, talked the Swedish Broadcasting Corp. into test broadcasts of DX news on shortwave to North America. The weekly program, originally broadcast in English only, has been expanded over the years to most of Radio Sweden's other language broadcasts.

"Sweden Calling DX'ers" continues to provide up-to-date information for the communication hobby enthusiast on a timely basis. The program can be heard on Tuesday at 1530 UTC on 21610 kHz and at 0300 UTC on 11705 and 9695 kHz.

RADIO EARTH RETURNS AFTER 9-MONTH HIATUS

Excerpts from the *Chicago Tribune*, Tuesday, April 10, 1990

"From June 1983 until last August, Radio Earth's one-hour radio magazine, "The World," was one of the most popular programs on the international airwaves, pulling in an estimated 600,000 listeners a week.

"Similar in format to National Public Radio's "All Things Considered," but with commercials, "The World" mixed ethnic, Latin, country, jazz and folk music with drama, humor, satire and news-feature segments on such diverse topics as astronomy, ham and shortwave radio, and nature.

"In short, "The World" was everything that shortwave broadcasting should be, but seldom is.

"For lawyer Michael Poulos and his legal-secretary wife, Suzanne, respectively chairman and secretary-treasurer of the parent corporation, the seven-year struggle to keep "Radio Earth" on the air has been a labor of love.

"Radio Earth was the brainchild of a coterie of late '70's Northern Illinois University radio enthusiasts. Originally in charge of the business side of the corporation, which has 23 shareholders, the Pouloses suddenly found themselves on the air microphone when the original host, Jeff White, resigned in 1986.

"They quickly adapted to their new roles, but by last August Radio Earth was on hiatus, discouraged by coverage problems with the signal of WHRI in Noblesville, IN, the fourth station on which the company had broadcast.

"Early next month, Radio Earth returns to the air. Via Radio for Peace International in Costa Rica, the program "Music From Everywhere" will be broadcast from 6 to 6:30 p.m. CDT every Saturday on 13.660 and 21.565 MHz.

"If the station's signal proves sufficient to blanket most of North America, the Pouloses plan to revive "The World".

"Concurrently, Radio Earth is negotiating with the Italian Radio Relay Service to beam its programming into Eastern Europe."

UNIVERSAL RADIO NEW CATALOG

Universal Radio is pleased to announce a new combined communications catalog. This publication consolidates our earlier shortwave, scanner and amateur catalogs. The catalog is 88-pages in length in 8 1/2 x 11" format, typeset quality. It covers equipment for the amateur, shortwave and scanner enthusiast. An impressive selection of antennas, headphones, books and accessories is also featured.

The catalog is available now for \$1 (or four IRC's) or free on request with any purchase.

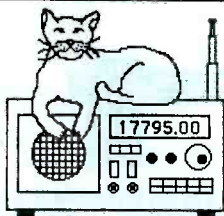
Universal Radio
1280 Alda Drive
Reynoldsburg, OH 43068

MONITORING TIMES CONVENTION

October 5, 6 and 7 are the dates for this year's Monitoring Times Convention. It takes place in Knoxville, TN, just miles from the Great Smoky Mountains. There isn't nearly enough room to print all of the details, so if you'd like further information, write to:

Monitoring Times Radio Convention
P.O. Box 98
Brasstown, NC 28902

WANTED: (1) Copy of tape recording of North Korea with broadcasts of capturing/news interview of crew of USS Pueblo research ship (Jan 23/Dec 22, 1968) or take over of USA Embassy by Iran or (2) exchange of information with DX'er using Commodore 64 computer/Microlog SWL Converter to do utility DXing. Charles R. Foxx, Jr., 2932 Myrtle Avenue, Norfolk, VA 23504-4117



Continuous Tuning

Ed Janusz

Box 149

Bricktown, NJ 08723

Hi. Did any of you plow through the awful propagation on April 10 to hear the BBC Omnibus feature on Philip K. Dick? If you were listening, and hadn't ever heard of him, you might have thought, "Who is this maniac?" Well, this century has produced many talented, eloquent writers, and a considerably smaller number who have given us unique and challenging visions. Phil Dick was one of those visionaries.

*

KOL ISRAEL'S PROGRAMME SCHEDULE (Time UTC, days kind of local)

SUNDAY

- 10 MAINSTREAM (consumer and community affairs)
19, 23, 01 CALLING ALL LISTENERS (mailbag programme; your editor was recently quoted as writing, "I like its combative tone")
19, 21½, 23 DX CORNER (mostly Kol Israel and IBA news, worth a listen)
21½, 00 THE WEEK IN REVIEW (from the Israeli press)

MONDAY

- 10 ISRAEL MOSAIC (weekly magazine)
19, 23, 01 SPECTRUM (science and technology)
19, 21½, 23 FREQUENCY ANNOUNCEMENTS
21½, 00 CALLING ALL LISTENERS

TUESDAY

- 10, 19, 23, 01 WITH ME IN THE STUDIO (guest interviews)
19, 21½, 23 FAITH TO FAITH (religion and community)
21½, 00 ISRAEL SOUND (popular and current music)

WEDNESDAY

- 10 THIS LAND (travel)
19, 21½, 23 JEWISH NEWS REVIEW (from the worldwide Jewish press)
19, 23, 01 LIVING HERE: PEOPLE WHO CALL ISRAEL HOME
21½, 01 ISRAEL MOSAIC

THURSDAY

- 10, 21½, 00 STUDIO THREE (the arts in Israel)
19, 23, 01 THIS LAND
19, 21½, 23 THE SPORTING LIFE (sports)

FRIDAY

- 10, 19, 23, 01 THANK GOODNESS IT'S FRIDAY (the Sabbath eve programme)
19, 21½, 23 LETTER FROM JERUSALEM (Aryie Haskell comments on current events; somewhat in the Alistair Cooke tradition, as the name implies, and always fascinating)
21½, 00 SHABBAT SHALOM (greetings and song requests)

*

URUGUAY Current shortwave activity, reported by Gabriel Ivan Barrera

- 6045.1 1 kW CXA61, Radio Libertad Sport (09:15-03:00, vs*)
6139.9 1 kW CXA20, Radio Monte Carlo (10:30 - 16:30)
9620.3 0.5 kW CXA6, SODRE (10:00 - 04:00 **)
11734.9 1 kW CXA7, Radio Oriental (16:30 - 23:00, vs*)
11835 0.5 kW CXA19, Radio El Espectador (10:00 - 03:00)

Notes: vs*--these stations will vary their schedules due to sports events.
**--SODRE's broadcasting schedule may be interrupted as its transmitting facilities are being moved from Montevideo to Santiago Vazquez.

Stations currently inactive because of transmitter repairs:

- 4900 0.1 kW CX8, Radio Sarandi (08:00 - 03:30)
6035 1 kW CXA30, La Radio (13:00 - 05:00)
6075 CX118, La Voz de Artigas (11:00 - 03:00; new callsign!)

*

ITALY A new station!

Steven Willers reports: "A new station calling itself the Voice of Europe can be heard on 7556.6 kHz. The reception is really bad; it's a hard one (maybe!) to pick up in the USA. VOE was just heard on February 25. I sent them a tape recording last month, but still don't have any reply.

The address, by the way, is: Voice of Europe, P. O. Box 26, Portenone, Italy."

*

HCJB: Major changes to the English programme lineup

On May 6, all Quito-produced programs will be consolidated into a one-hour block called 'Studio 9.' This has resulted, among other things, in the dropping of the long-running 'Passport,' and a major cutback in 'Happiness is' to two days a week.

These changes are being made primarily because of HCJB's limited personnel resources. (After 11 years on the job, Brian Seeley--newscaster and host of 'Music in the Night'--will be going back home to Canada. You might want to drop Brian a card thanking him for all the good radio....) The English Service consists of only a small team of producers, and the station feels that the new format will better reflect its resources and enhance the service it provides to its listeners.

'Studio 9' will play three times to North America, twice to Europe (morning and evening), and twice to the South Pacific. Each weekday release will begin with a five-minute Latin American newscast, followed by 15 minutes of in-depth news, current affairs, interviews, and features. This will be followed by a different 30-minute feature programme each day.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Get Set			LATIN AMERICAN NEWS			
			STUDIO 90			Focus 2000
		[news, current affairs, features, interviews]				
Saludos	Dateline	Happi-	Ham Radio	Happi-	Musica	DX Party-
Amigos	90	ness Is	Today	ness Is	del	line
					Ecuador	

WORLD NEWS						

Here are some programme highlights:

- DATELINE 90, capturing the issues of the decade, with Jan Shober.
- May 7: Bias in the Media--Is it your imagination? A panel of 2 newsmen and a journalism teacher debate this question.
- May 14: Russia--its Present and its Future.
- May 21: 1990--International Literacy Year.
- June 4: Sport--Legitimate Outlet or Unreasoning Mania? (Yes. -ej)
- June 11: The Rain Forest--An Endangered Resource.

HAPPINESS IS (Cultural Editions), with Dee Balenko

May 8: More Than Conquerors--the revolutionary days of South America's revolutionary history.

May 15: Ecuador's exotic jungles.

May 22: The village of No-No. (I'm not making this up. -ej)

May 29: The province of Manabi. June 5: Composer Alfredo Colon.

The Thursday edition of 'Happiness Is' will be excerpting Charles Colson's book Born Again. Mr. Colson is chairman of Prison Fellowship. 'Ham Radio Today' looks to be of interest to the SWL who wants to further understand propagation and electromagnetic radiation.

VATICAN RADIO Current English Schedule

To Africa: 05:00-05:30; 06:30-07:00, 17:30-18:00, 21:00-21:30

17710, 17730, 21650 kHz

To America: 00:50-01:10 9605, 11780, 15180 kHz

03:10-03:30 11725 kHz

To Asia/ 01:45-02:00 9650, 11750, 15180 kHz

Australia/ 12:00-12:20 17865, 21515 kHz (weekdays only)

New Zealand 15:45-16:00 11945, 15090, 17870 kHz

22:05-22:25 9615, 11830, 15105 kHz

To Europe: 05:00-05:20 6185, 9645 kHz

13:45-14:00 6248, 7250, 9645, 11740 kHz

19:00-19:03 6190, 6248, 7250, 9645 kHz (news) (weekdays)

19:50-20:10 6190, 7250, 9645 kHz

"4 Voices:" 06:30-06:45 6248, 9645, 11740 kHz (weekdays only)

10:44-10:51 6248, 9645, 11740 kHz (weekdays only)

15:14-15:21 6248, 7250, 9645, 11740 kHz (weekdays only)

Special thanks to Yukimasa Matsushita, who "redacted" a rather confusing printed schedule.

Question: The sked shows broadcasts in the Angelus language to Europe and Africa. Can anybody tell me what this is? (No, this isn't a contest; I just want to know).

RADIO KOREA in English

Time	Freq	Target
00:00-01:00	15575	North America
08:00-09:00	7550	Europe
	13670	Europe
10:30-11:00	11715	NAM (via Canada)
11:00-12:00	15575	Mideast/Africa
12:15-13:15	9750	North America
14:00-15:00	9570	Southeast Asia
16:00-17:00	5975	nondirectional
	9870	Mideast/Africa
18:00-19:00	15575	Europe
20:30-21:30	6480	Europe
	7550	Mideast/Africa
	15575	Europe

I know a couple of those things look like misprints, but 'tain't so.

English Programme via Sackville

Every programme starts with News (on Sunday, Weekly News in Review), followed by:

Sunday: Shortwave Feedback (letters and listener contact)

Monday: Seoul Calling (magazine show)

Tuesday: Seoul Calling (another edition)

Wednesday: Music Box/Pulse of Korea

Thursday: Music Box/Focus This Week (current affairs)

Friday: Let's Sing Together

Saturday: From Us to You (another listener contact programme)

RADIO SWEDEN in English

Time	Freq	Target
01:00	15405; 17860	Asia/Australia
02:30	11705; 15295	North America
11:30	17740; 21570;	
	21610	Asia/Australia
14:00	17740; 21610	Asia/Australia
15:30	17880; 21500	North America
	21655	Europe
17:00	6065; 9615	Europe
21:00	9655; 11705	Europe

All programmes ½ hr. in length.

RADIO NORWAY in English (Sunday Only)

Time	Freq	Target
06:00	15165	Pacific
08:00	15165	NAmerica/Pacific
	25730	Far East/Aus/NZ
09:00	17840	" "
12:00	15165	NAmerica
13:00	9590	Europe
14:00	21710	India/Aus/SAsia
16:00	17765	NAmerica
	21705	N-Central America
17:00	17765	NAmerica
	25730	Africa
18:00	21730	EAfrica/Mideast
19:00	15165	Europe
22:00	17730	WAfrica/SAmerica
23:00	15165	N-Central America
24:00	15165	SAmerica

All programmes ½ hr. in length. My 1st repeat; lots of changes since the 3/90 column!

Sweden-tnx Richard Lemke. Norway-tnx Bill Westenhaber. AWR-Asia-tnx Yukimasa Matsushita. Korea-tnx Matsushita-san and many others.

AWR-ASIA BROADCAST SCHEDULE Z-90				
March 25, 1990 through September 30, 1990				
UTC	LOCAL	LANGUAGE	FREQ (kHz)	M. B.
0000	0700	English	15125	19
	0800	Mandarin	15225	19
0100	0730	Burmese	15125	19
	0900	Mandarin	15225	19
0200	1000	English	13720*	21
	1000	Mandarin	15225*	19
0300	1100	Canton,Shanghai	13720*#	21
	1100	Mandarin	15225*	19
0400	1200	Mandarin	13720*§	21
	1200	Mandarin	15225*	19
0500	1300	Mandarin	13720*	21
	1300	Mandarin	15225*	19
0600	1400	Mandarin	13720*	21
	1400	Mandarin	15225*	19
0700	1500	Mandarin	13720*	21
	1500	Mandarin	15225*	19
0800	1600	Mandarin	13720*§	21
	1600	Mandarin	15225*	19
0900	1700	Canton,Shanghai	13720*#	21
	1700	Mandarin	11980	25
1000	1800	English	13720	21
	1800	Mandarin	11980	25
1100	1900	Indonesian	13720	21
	1900	Mandarin	11980	25
1200	2000	Filipino	13720v	21
	2000	Mandarin	11980	25
1300	2200	Korean	9650	31
	2200	Japanese	11980	25
1400	2030	Burmese	13720	21
	2200	Mandarin	11980	25
1500	2030	Indian	13720@	21
	2300	Mandarin	11980	25
1600	2130	Indian	13720a	21
	2130	English	11980	25
1700		SIGN OFF		
2000	0500	Korean	15310	19
	0400	Mandarin	15225	19
2100	0600	Japanese	13310	19
	0500	Mandarin	15225	19
2200	0600	Indonesian	15125	19
	0600	Mandarin	15225	19
2300	0600	English	15125	19
	0700	Mandarin	15225	19

Key to symbols:
 * Broadcasts Saturday & Sunday only
 #Cantonese and Shanghaiese
 § Mandarin, Saturday; Hakka, Sunday
 @Sun,Wed,Sat-Tamil; Mon, Thur-Malayalam;
 v Tue, Fri-Marathi
 Δ Sun,Tue,Thur,Sat-Hindi; Mon,Wed,Fri,-Telugu
 v Sat, Tue, Fri-Tagalog; Sun, Thur-Ilonggo
 Mon, Wed-Cebuano

AWR-ASIA ENGLISH PROGRAM SCHEDULE

UTC	Sun	Mon-Fri	Sat
0000	Your Story Hour	Family Matters	Story Hour
0015	Your Story Hour	Bible in Sound	Story Hour
0030	Voice of Prophecy	Greatest Story	V. Prophecy
0045	Voice of Prophecy	V. Prophecy	V. Prophecy
0200	AWR Magazine	-----	Mailbox
0215	AWR Magazine	-----	Focus on Liv
0230	DX Asiawaves	-----	Power
0245	Probe	-----	Power
1000	AWR Magazine	Family Matters	Mailbox
1015	AWR Magazine	Bible in Sound	Digging Past
1030	It is Written	Greatest Story	Focus on Liv
		DX Asiawaves (Mon only)	
1045	It is Written	V. Prophecy	Probe
1600	AWR Magazine	Family Matters	MicroSnap
1615	AWR Magazine	Bible in Sound	Mailbox
1630	Power to Cope	Greatest Story	DX Asiawaves
1645	Power to Cope	V. Prophecy	Probe
2300	Family Matters	Family Matters	Micro Snap
2315	Bible in Sound	Bible in Sound	Focus on Liv
2330	V. Prophecy	V. Prophecy	DX Asiawaves
2345	V. Prophecy	V. Prophecy	Probe

A1

STAFF - 1/2 PRICE

SPEEDX RENEWAL NOTICE

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U.S.A.

If you have any comments, questions or suggestions about the club or the magazine, please write them on the back of this form!

PLEASE FILL IN THE FOLLOWING INFORMATION AS IT APPEARS ON THIS MONTH'S MAILING LABEL, MAKING ANY CORRECTIONS ON THE BACK OF THIS FORM.

Expiration Date _____
Name _____
Address _____
City _____ State/Prov _____ PostCode _____
Country (if other than U.S.A.) _____

PLEASE CHECK ONE OF THE FOLLOWING:

- FIRST-CLASS MAIL to USA, \$20.00 _____
- AIRMAIL (AO) to Canada/Mexico, \$20.00 _____
- AIRMAIL (AO) to Central America/Caribbean, \$26.00 _____
- AIRMAIL (AO) to South America/Europe, \$30.00 _____
- AIRMAIL (AO) to Asia/Africa/Oceania, \$34.00 _____
- SURFACE MAIL outside North America, \$20.00 _____

RADIO AUSTRIA INTERNATIONAL English Schedule

Time	Frequency	Target Area	Time	Frequency	Target Area
01:30	9875; 13730	NAmerica	14:30	6155; 13730;	
"	9870	SAmerica	"	21490	Europe
05:30	6015	NAmerica	"	21490	Africa
07:30	6155; 13730	Europe	"	11780	Asia
"	15410; 21490	Middle East	16:30	6155; 13730;	
10:30	15450; 21490	Australasia	"	21490	Europe
11:30	6155; 13730	Europe	"	11780	Asia
"	15430	Asia	"	21490	Africa
"	21490	NAmerica	19:30	5945; 6155	Europe
13:30	15430	Asia	"	12010	Middle East
			"	13730	Africa

Programmes:

REPORT FROM AUSTRIA, a grab-bag of news and features, appears every day. Usually, this is a model of what a creative staff can do with 25 minutes. (I say "usually" only because Austria is a well-established center for international conferences, and hence has the misfortune to host the occasional windbag; but usually RAI--or ORF, if you will--does a good job even with these). Being a food freak, I'm favorably disposed towards Austria to begin with; but, carbohydrates aside, they do a good job.

AUSTRIAN COFFEETABLE, an arts programme which mostly features music of various styles, is heard Saturdays at 10:30, 11:30, and 14:30. On Sundays at the same time, you can hear **SHORTWAVE PANORAMA**.

*

OOPS!

A typo crept into my rendition of RCI's schedule as presented last month: The last frequency given for the 18:30 bloc should be 21675, not 21695. I am not, however, responsible for the personnel changes which made my listening recommendations, and the Harry Fleming Fan Club, obsolete before the ink was dry.

I did something ridiculous this week; I totally lost Jason Berri's "USSR" column. A replacement is on its way via Express Mail, assuming Jason can dig it out of his computer. If this issue is missing "USSR," or is later than you (or I) would prefer, it's my fault. Losing a column...wow! I really feel like a blockhead.

T H E C O N T I N U O U S T U N I N G O P - E D S E C T I O N

Our new Central Distribution Editor, Ed Cichorek, writes:

--I just got a look at Radio Australia's new schedule. Very disappointing; "Smith's Weekly" is, I guess, history, unless enough people object. There are just too many good things they can be doing instead of using all that time on music. I can listen to FM for that! (Agreed. The hourly news is just as good as ever, but they seem to have eliminated most of the fun from their lineup. There's a certain stridency in some of their new offerings, and nothing like "Smith's" or "Window on Australia." --ej)

Robbie Reeves checks in from Oregon:

--On March 17, Radio Vilnius was to report on the independence of Lithuania from the USSR. However, Radio Vilnius's transmitters located outside Lithuania were shut down, and RV never made it on the air. On March 19, they asked listeners to either phone or Fax them a report to inform them if they got on or not. If you are so inclined the numbers are: Area code - 0122; Phone - 660526; Fax - 661117. (Thanks, Robbie. This just missed the 4/90 column, but the situation in Lithuania is still pretty tough, so these numbers may be useful even now. --ej)

Woody Seymour comments on the sudden disappearance of Radio RSA:

--Your best bet might be to write to the South African Embassy. In the USA, this is at 3051 Massachusetts Avenue N. W., Washington, DC 20008. I can't quite figure this out, but it was obviously a very sudden decision; Gary Gears called up the SABC, and tells me that the people at Radio RSA were obviously in total shock. (I can imagine, Woody. According to the 1990 World Almanac, the ambassador is Piet Koornhof).

PRAGUE: Woody also tells me that we can expect Radio Prague back on by the time you read this. The station was shut down as the government wanted to remove the old-time Communists, secret police types, and other such non-desirables.

Sorry for the rush job...thought I had 5 pages this month, but I don't!



73's, Eddie



WHAT'S ON UPDATE

ENGLISH BROADCAST TO NORTH AMERICA



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

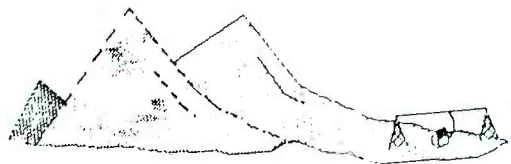
CHANGES ENTERED MARCH 18-APRIL 18, 1990

UTC Time	Station	Notes	Frequencies
0000-0100	R. Korea, S. Korea	---	15575
0000-0100	R. Moscow, U.S.S.R.	NAm svce	11850Bu; 9720Bu; 9685
0000-0100	WYFR, U.S.A.	---	15170; 13695; 5985
0000-0200	WSHB, U.S.A.	---	13760; 9850; 9410
0000-0200	WVCR, U.S.A.	---	15690
0030-0130	HCJB, Ecuador	---	15230
0035-0300	HCJB, Ecuador	---	15155; 11795; 9745
0100-0130	R. Japan	Reg svce	17825; 15195
0100-0200	R. Japan	Gen svce	5960S
0100-0200	R. Moscow, U.S.S.R.	NAm svce	11850Bu; 9720Bu; 9685
0100-0300	WYFR, U.S.A.	---	11720; 9505; 5985
0130-0140	V. of Greece	---	11645; 9420; 9395
0200-0300	R. Moscow, U.S.S.R.	NAm svce	11850Bu; 9720Bu
0200-0600	WVCR, U.S.A.	---	7520
0230-0300	R. Sweden	---	15295; 11705
0300-0330	R. Japan	Reg svce	21610; 17825
0300-0400	R. Moscow, U.S.S.R.	NAm svce	11850Bu; 9765; 9720Bu; 9530
0300-0500	HCJB, Ecuador	---	15155; 11795
0300-0600	WYFR, U.S.A.	---	9505; 6065; 5985
0310-0327	Red Cross, Switz.	---	12035; 9885; 9725; 6135 -- May 1, May 4, May 29, Jun 1, Jun 26, Jun 29, Jul 31, Aug 3
0340-0350	V. of Greece	---	11645; 9420; 9395
0500-0700	HCJB, Ecuador	---	15155; 11795; 9745; 6230
0600-0800	WYFR, U.S.A.	---	6065; 5985
1000-1100	WYFR, U.S.A.	---	5950
1100-1200	WYFR, U.S.A.	---	11580; 5950
1200-1500	WYFR, U.S.A.	---	17750; 13695; 11580; 6015; 5850
1200-1630	HCJB, Ecuador	---	17890; 15115
1215-1315	R. Korea, S. Korea	---	9570
1235-1245	V. of Greece	---	17535; 15630; 12105
1300-1400	R. Moscow, U.S.S.R.	Wld svce	17810; 17700; 15560; 15480; 15460; 11840Cu
1300-1500	WVCR, U.S.A.	M-F	15690
1300-1600	R. Canada Int'l	Su	17820; 11955
1400-1500	R. Moscow, U.S.S.R.	Wld svce	17810; 15560; 11840Cu; 9825; 9540
1500-2400	WVCR, U.S.A.	---	15690
1530-1600	R. Sweden	---	21500; 17880
1600-2300	WYFR, U.S.A.	---	17885; 13695; 11830; 11580
2000-2100	R. Moscow, U.S.S.R.	Wld svce	11840Cu
2100-2200	R. Moscow, U.S.S.R.	Wld svce	11840Cu
2200-2300	R. Moscow, U.S.S.R.	NAm svce	11735Bu
2200-2400	V. of UAE	---	11985; 9595; 6170
2300-2330	R. Norway Int'l	Su	15165
2300-2400	R. Moscow, U.S.S.R.	NAm svce	17700; 11750; 11735Bu; 9685; 9530
2300-2400	WYFR, U.S.A.	---	15170; 13695; 5985

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

The frequencies listed for Radio Moscow are as monitored here in Western Wisconsin in April. If anyone in the East and West Coast areas of this country or Canada would be interested in helping me monitor for the audible frequencies of Radio Moscow feel free to contact me. It would also be great if anyone who could monitor the overnight frequencies would write as well. --- 73's
Daniel

Latin Notebook



Carl Huffaker
Domicilio Conocido
Huasca De Ocampo
Estado De Hidalgo
Mexico

The street was packed shoulder to shoulder. A band, one of several with dented unpolished brass, played the old, tired Sambahs, which after a while, become rather hypnotic. Occasionally, a decorated truck bearing the princess of a nearby village forced its way through the mass of costumed dancers. I pushed my way through the crowd, a few steps with this dancer and that, and wondered who was behind the mask. It was Carnival, Carnival in Huayacocotla.

It exploded this year, in the villages, the towns, the cities. Perhaps, somewhere, some retained the cold formality of New Orleans, but throughout Latin America, everyone danced at Carnival, a spontaneous statement of their identity and their unity.

I wasn't a surprise, those masks and costumes had taken weeks, perhaps months of careful preparation. On my way through the mountains, I was stopped by a military roadblock for a personal search, and the car searched, for weapons. Even the sometimes too cold and always too patronizing OAS aired special broadcasts on Carnival. They summed it up with the laconic statement of a Church official, "The mixture of pagan and Christian customs is difficult to understand and more difficult to explain." In a Radio Huayacocotla broadcast, a young campesino woman said (the purpose of Carnival) "is to make the crops grow".

Yes, Carnival is the spring festival, fertility rite if you prefer, and as such, has roots in all of the Indian religions and in Christianity, although one doesn't exactly gain popularity by correlating the Easter Parade with the Feast of Aphrodite. Yet to the people, it's something old, ancestral, and a convenient focus for unity.

In Latin America, Carnival is only loosely attached to the religious calendar and the dates are sufficiently staggered that I was able to attend in four other villages. It's a credit to my old professors that I had not forgotten anthropology, and I was able to recognize the pattern in the seemingly endless variety of costumes. There were the old Indian deities, especially in their animal or bird form. Many were Mexican as still preserved in the dance and costume, but some I recognized from the American Plains area, some from the Pueblo, and there was one carved wooden mask that reminded me of Vancouver Island. There were Mexican heroes, especially those that died violently and are most used by the "spiritists". And the battle between good and evil was well represented with even Batman appearing as a modern expression. What surprised me was the occasional appearance of the exotic Orient. But then I remembered the Manila Galleon and the era when it represented oriental treasure. Assuming that costume is a subconscious expression, the "roots" that the campesino seeks are not pre-Spanish, but more 16th and 17th Century, a violent period, and basic to his explosive nature. His automatic defense of the only church then existant in the area, and one adjusted to the cultural anomalies, is understandable and is the source of "the problems" in missionary radio.

This year, many stations covered Carnival. On TV, I preferred Rio or the Canaries even if the almost-zero coverage costumes were uniforms and the dance had the personal expression of a pony chorus. On radio, some of the small local stations available only to the DXer came closer to its true spirit. Some of you, I know, managed to listen in on several. I hope this helps interpret those broadcasts.

RADIO MIL, 6010 kHz.

It was back in 1985 that Japanese DXer Takayuki Inoue and Austrian Christian Zettl stopped by the shack in Lomas (Mexico City). When the conversation got to Radio Mil, Takayuki insisted they were not on shortwave and punched in the frequency on his Sony to prove it. I said that they were active as I'd logged them many times, including recently, but for some reason that I couldn't explain, the signal was sometimes so weak that I had to peak the antenna and run the receiver at full gain to copy it at all. Asking for information at the administrative office produced the statement that they were on shortwave, but often had problems with tubes, etc. When Takayuki and Christian visited the transmitter, the "engineer" told them that the transmitter bothered both the television and the telephones of some "politicians" who lived nearby so they ran at reduced power. Takayuki, it was early in his first visit to Latin America, didn't really accept the explanation and only hinted at something in his LA DXing report. Christian, who had done considerable study for his sponsored investigation, thought it interesting. I reported Radio Mil as active and Glenn Hauser, then I believe in Florida an excellent location for monitoring Mexico, republished the report, but added he could receive nothing on the frequency. WRTH continued to list Radio Mil as active on incorrect 6008 kHz. All involved are conscientious DXers and I've only mentioned the personalities to show how much interpretation can creep into "observed data".

I, perhaps brainwashed into exaggerating the power of politicians, not only accepted the explanation, but began investigating the reduced power transmissions. They were too strong for running the final at reduced power, or even running the transmitter without the final, but were probably a case of part of the transmitter being turned off and the signal getting to the antenna through random pickup. From a Latin-American point of view, it made sense, the station was legally on the air and didn't bother anyone's TV or telephones -- and the mode of operation discovered during a random throwing of switches. The micro-power transmissions continued, and I monitored them from time to time until I moved to Huasca and was located far beyond their range.

But Radio Mil did occasionally operate at full power, and on checking the logs of these transmissions, it was obvious that they occurred only at the end of the year or at Easter. Now in Mexico, these are the times when everyone goes to the beach. It's an exodus that can only be compared to the legend of Lemuria. The government's on vacation and to the extent that many lawyers schedule their activities to take advantage of these long periods when there's no possible court action. Whatever "politicians" that Radio Mil would have bothered with their shortwave transmissions would be out of town.

During the years that followed, Radio Mil continued to include their shortwave outlet in their mediumwave ID. (The FM outlets have different programs and use other ID's) And every year around Christmas or Easter 6010 kHz was on the air with a week or so of full-power transmissions.

New Years 1989 marked a week of full-power transmissions, but in 1990, Radio Mil was silent. It's almost Easter now, it's March 29th as I write this, and as I tuned across the 49-meter there was a signal on 6010 kHz. It staggered a few times between audio and open carrier and then became solid 444, Radio Mil in full-power operation for 1990!

Back in 1985, Radio Mil claimed to be operating AM-stereo in both it's mediumwave and shortwave outlets. I visited them at the time and could find no one who knew anything about it although one secretary said "No one has receivers for that anyway" and left me to guess. They dropped stereo from their AM/SW ID a few years ago and now claim stereo only for their FM outlets which are actually in stereo.

If this is only a seasonal full-power reactivation, they'll be off the air again by the time this is published so make a note 'check 6010 kHz around next Christmas or Easter'. And if you did log them tentative and was unable to confirm it later, it probably was Radio Mil.

TV MARTI

With Radio Marti proving that TV Marti can be received in Havana despite jamming (DXers are everywhere!), and Radio Habana Cuba insisting that the jamming tests were a complete success in that all channels were blocked with no interference whatsoever in reception of Cuban stations, it's not only a case of face saving for the bureaucrats on both sides, but could result in a considerable gain for Castro.

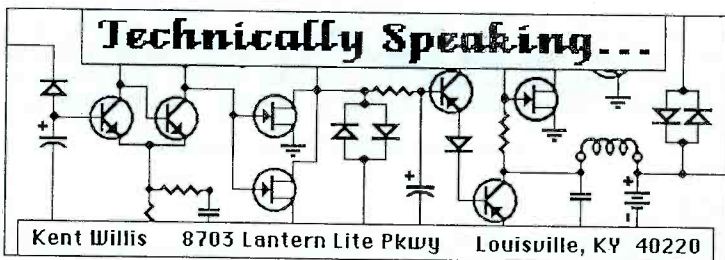
Let me go back to radio, to 1947 when TV and FM were just coming in and shortwave was almost entirely the international voice of governments. In Sacramento, KFBK was just building it's new 50 KW transmitter. The FCC, very anti-trust in that era, had hesitated as the newspaper chain already had "too many" newspaper, radio, TV, and FM outlets. But the station was to be the first in America using phase-to-amplitude modulation, and as the system promised a tremendous saving in operating cost, they hesitatingly gave permission, but they did place a severe restriction in that effective radiated power towards Cincinnati had to be limited to the 300 watts proposed in the license application. It involved an untested antenna design and when the antenna took the shape of massive towers out in a wheatfield, I began to have my doubts. (I should explain that I was just a DXer who lived across the street from the engineer and often spent nights out at the transmitter watching him build things.)

The station finally came on the air without many problems. One, I recall, was that you couldn't read the tower ammeter without shutting the station down to let someone climb across the insulator to get up on the tower. But Russ was an amateur astronomer and solve that neatly by installing his homemade 10-inch telescope in the shack. Except for a soon-solved tendency of the transmitter to distort at 100% modulation, and the anomaly of a strong signal in a small area in Nevada, everything worked perfectly.

But the antenna pattern made KFBK a dominant station in Alaska and the Alaskan broadcasters complained. The Alaskan lobby and the government's special handling of Alaska as a strategic area, made a readjustment of KFBK imminent -- until the DX reports came in. It became obvious that the northern lobe continued across the pole, down through the USSR and Asia, and on to Australia. In Washington, the lawyers argued that ads for cars, washing machines, and even soap were the best possible capitalistic propaganda that could be beamed towards the USSR, and more important, were being beamed there at no expense to the government. The FCC approved the final license. I have no idea how much, if anything, the station contributed to the recent change in Russian economy. I like to think that it helped.

Castro's jamming tests involve all TV channels, not just Ch 13. If TV Marti keeps the Cuban people from those long commercial blocks advertizing things they can't buy in Cuba, our "information service" will have a hard time proving it's not counterproductive.

73
Cal



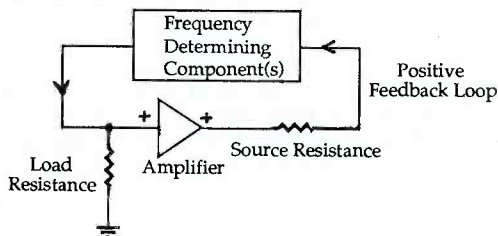
Welcome. This month we feature another installment in our peek behind the receiver dials. Our topic is oscillators and we will briefly examine the theory and operation of the types of circuits we find in most receivers. I apologize for the absence of last months' column. Recently I've barely had time to eat and sleep! Please keep your contributions and inquiries coming. Send in a review of your new receiver or peripheral equipment or anything else appropriate for this column. Hey Dr. Howard Tunick... did you get the book?

To reach the largest possible number of hobbyists, I have decided not to independently publish the "antenna monograph" which I alluded to in past issues. Instead, I have contributed a portion of the work to Fine Tuning's 1990 Proceedings. I hope to have the opportunity to expand upon the first part (which is primarily simplified theory) in later Proceedings. It should be available in late September, so sign up for yours and tell 'em Kent Willis sent ya! Order early or you will probably miss out. This years' issue will be worth every penny! Not to mention highly collectible because of my quintessential input-hi!

An Introduction To Electronic Oscillators

The word oscillate is of Latin origin and originally referred to the manner in which a mechanical pendulum swung back and forth. A theoretical pendulum would swing to and fro in an endless cycle of conversions between kinetic and potential energy if there were no losses due to friction at the pivot. Any real pendulum would eventually come to a complete stop once all of the original potential energy was completely converted into heat through friction. Electronic oscillators swing between two voltage, current, or polarity levels. Essentially, the only moving parts are electrons and in some instances, quartz crystals which vibrate mechanically. They too lose energy through heat dissipation in the resistances of the circuit components. If they are going to function continually, sufficient energy must be supplied to offset these losses. This energy comes from the power supply.

The basic sinewave oscillator consists of three main components: an amplifier, a resistance and some type of device which determines the frequency of oscillation. The frequency determining component (FDC) is typically an inductive-capacitive "LC tank circuit" or some type of piezoelectric crystalline material, typically quartz. The quartz crystal behaves much like the LC tank but with smaller losses and many other more desirable features. The block diagram below will illustrate the important concepts.



Series Mode Oscillator Block Diagram

Any circuit which has positive feedback and a signal gain greater than unity will oscillate at some frequency. The above circuit has an amplifier which provides the necessary gain. All amplifiers have one basic purpose: to provide an output signal

which is a replica of the input signal. The amplifier and the FDC do not introduce any phase shift in this configuration and therefore the signal leaving the amplifier is in phase with the signal entering, i.e., positive feedback. If the FDC was a single quartz crystal, the circuit would oscillate at it's "series resonant fundamental frequency". The crystal impedance is at a minimum at this frequency. The crystal mechanically vibrates back and forth just like a tuning fork, although the frequency is usually way above the limit of human hearing. The crystal dominates or controls the operation of the whole circuit if the resistances are properly selected. Quartz crystals are piezoelectric. When "squeezed" or mechanically stressed, they produce a small but measurable voltage. They also exhibit reciprocal behavior in that if you apply a time varying (ac) voltage across a thin slab of quartz, the crystal will deform mechanically, i.e. vibrate at some frequency which is a function of the type of material, thickness of the slab and how the slab is cut from a piece of quartz. This behavior is of incredible importance in modern electronics and the key to circuit operation.

Examining the block diagram, we can see the amplifier places an a.c. signal across the combination of the FDC and load resistance. This combination is a simple voltage divider. When the crystal is operating at its fundamental frequency, its impedance (resistance) is at a minimum and therefore the voltage across the divider at the input to the amplifier is at a maximum. The crystal therefore controls the loop gain and sustains oscillation. If the FDC was a tank circuit consisting of an inductor and capacitor the performance would be similar. The frequency of oscillation would be the resonant frequency of the LC tank circuit.

When power is applied to such a circuit, nothing happens immediately. Initially, unavoidable (and in this case desired and necessary) noise is amplified and passes through the FDC which filters the noise to some extent. The noise is required to initiate oscillation. The filtered noise is passed back to the input of the amplifier in phase with the original signal. It is then amplified again. This process continues until the amplitude of the noise reaches a finite limit due to energy conservation. As the magnitude of the signal grows, the gain of the amplifier at the operating frequency decreases. The amplifier gain stabilizes when equal to unity. Once the desired oscillation is obtained, the noise component is still there and is present in the output circuit. Hopefully, the magnitude of the desired signal is much greater than that of the noise.

There are several dozen more or less distinct circuit topologies which will produce working oscillators. Certain configurations work better at various frequencies or power output levels. The application usually forces the choice of many of the possibilities. The degree of amplitude and frequency stability required and spectral (signal) purity are also primary considerations. Some of the more widely used configurations are named after their developers and include: Colpitts, Miller, Pierce, Meacham and Butler. Most of these topologies were patented in the early 1930's. The Meacham and Pierce circuits exhibit excellent stability and signal purity and are used frequently in communication receivers. The Miller circuit produces a rather nasty output waveform that is unstable in frequency. However, even the worst crystal oscillator circuit is more stable than any LC tank based device. Many circuits contain both quartz crystals and LC tank circuits. Adjusting of the LC tank capacitor or inductor permits fine-tuning or variation of the output frequency. Quartz crystals are rather stubborn. Generally, they don't like to be operated at anything but their resonant frequency. LC tanks can be more or less continuously varied over a very wide frequency range.

Stable, reliable and power-efficient oscillator design is not a simple task. It is more "black art" than science. There are many "cookbooks" which provide a starting point but usually considerable trial and error is required to "tweak" the performance of any RF oscillator. The oscillator is a non-linear device, and as such many of the simpler circuit design and analysis techniques which apply to linear devices are not applicable. Stability prediction of any non linear device is in general quite complex. There is much more to the design of a high quality oscillator than simply selecting a circuit type and choosing components. The simplest task is controlling the frequency of oscillation. This is achieved through selection of a single quartz crystal or an inductor-capacitor tank circuit. Controlling the other parameters is where the fun begins. Most oscillators require only a single transistor and only a half dozen other components, usually only resistors and capacitors for audio frequency oscillators. Inductors are required for higher frequency applications.

Western Hemisphere

LOGGINGS BY THE 12TH TO:

Thomas F. Sable
University of Scranton
Scranton, PA 18510

ALASKA***KNLS

11700 1541 "The Swinging Years," ID (545 4/6 Reeves-OR)

ANTIGUA***Deutsche Welle relay***

9545 0330 DW EE; Feature program (444 4/10 Johnson-IL)

11810 0156 DW SS; IS, ID, sites (544 3/22 Gaharan-LA)

ARGENTINA***Radiodifusion Argentina al Exterior***

15345 0952 RAE JJ; IS, multilingual IDs, JJ OM into tango (444 3/13 Westenhaver-QU)

BRAZIL***Swiss Radio International relay***

6010 2329 R **Inconfidencia** Live vocals (343 3/17 Landau-NJ)

6020 2246 R **Gaucha** National program with songs (333 3/17 Landau-NJ)

9565 0838 R **Universo** OM shouts, chorus sings, crowd noises (323 3/25 Famularo-JP)

11745 0218 R **Bras** EE; Braz mx (433 4/10 Johnson-IL) (Carson-OK) (Bronowicz-MO) (Neff-FL)

11830 0940 R **Araguaia** TC, Latin mx, ID but not clear (323 3/18 Famularo-JP)

17315 2345 R **Cultura** Braz mx, ID, more pops (343 3/24 Brown-IL)

17730 0156 **SRI** EE; Phil Collins mx, nx, Voting in E Germany (333 3/17 Brown-IL) (Stringer-NZ)

CANADA***Radio Canada International***Radio Japan relay***

5960 0305 RJ Nx, USSR pulls troops from Hungary, ID (444 3/12 Brown-IL)

5960 0030 RCI SWLs' Digest: IDing the Slavic languages (444 3/18 Neff-FL)

6005 1914 CFCX Pennsylvania song (544 3/13 Bishop-NY)

6070 0000 CFRX Nx: Lithuania, homeless, DST switch (333 3/31 Brown-IL)+3

6120 1115 RJ New railroad car (555 3/13 Fraser-MA)

6130 0740 CHNX Rock mx, ads, nx (242 4/8 Johnson-IL) (Bishop-NY)

6160 1937 CKZN The Year 2001 (222 3/13 Bishop-NY)

9535 0107 RCI "It's a Matter of Survival" environmental issues (333 3/24 Brown-IL)

9635 1330 RCI OM talking sports (333 3/16 Stringer-NZ)

9755 0020 RCI Hemingway's new short story (4/4 Bronowicz-MO)

11945 2231 RCI SWLs' Digest: Code vs. No-Code (433 3/25 Carson-OK)

11955 1402 RCI CBC into "Sunday Morning" (434 3/25 Carson-OK)

13650 1806 RCI Bob Cadman with nx, forgot to switch to 13670 (333 3/13 Park-HI)

13670 2137 RCI World nx, Canadian wx, Sports (333 3/29 Famularo-JP)

13720 0225 RCI Interview with Indian politician (333 3/30 Brown-IL)

15325 2140 RCI Domestic nx (434 4/6 Johnson-IL)

CHILE***Radio Nacional de Chile***

15140 0319 Pinochet meets Quail (333 3/11 Westenhaver-QU) (Johnson-IL)

COLOMBIA***CARACOL***

4945 0030 CC **Neiva** Nx, OM mentions Bogota and USA (222 3/29 Thornton-NJ)

5075 0243 CC OM talks (433 3/23 Bishop-NY)

5955 0902 V **Centauros** World nx, ads, Caracol and station IDs (444 4/5 Westenhaver-QU)

COSTA RICA***Adventist World Radio***Radio for Peace International***

5045 0534 R **Impacto** ID: "La Hora Impacto" with pop songs (434 3/11 Westenhaver-QU) (Bishop-NY) (Neff-FL)

5055 0220 **Faro del Caribe** OM talks with mx (433 3/23 Bishop-NY)

7375 1025 **RPI** EE; Environmental discussion, T-shirt ads, women's nx (343 3/13 Westenhaver-QU) (Johnson-IL) (Carson-OK)

9725 0000 **AWR** EE; "Voice of Prophecy" mx (444 Brown-IL) (Johnson-IL)

Costa Rica (cont.)

(Gaharan-LA)

21565 0003 **RPI** EE; "World of Radio" ID and address (433 3/10 Westenhaver-QU)
(George-MA)

CUBA*Radio Habana Cuba*****

11760 0429 **RHC** EE; Nx: Zimbabwe elections (545 4/3 Carson-OK)
11800 2030 **RHC** EE; Cuba has a constitution, time to enjoy Cuban mx, IDs, EE to
Europe (555 3/17 Robinson-TN)
11820 1130 **RHC** OM and YL talk nad laugh, mx (555 3/17 Robinson-TN)
11950 0108 **RHC** Mx, nx, ID (4/4 Bronowicz-MO)

ECUADOR

3220 2358 **HCJB** Quecha; Latin vocals, guitar mx, ID (222 3/22 Cichorek-NJ)
3395 0032 **R Zaracay** Wx, OM, soft chimes, instrumentals (222 3/23 Cichorek-NJ)
4680 0239 **R Nacional Espejo** Ads into a play (433 3/9 Bishop-NY)
4840 0131 **R Interoceana** OM with nx, mentions "Santa Rosa" (322 4/1 Thornton-NJ)
4960 0058 **R Federacion** YL with vocals, NA (222 3/30 Thornton-NJ)
5030 0126 **R Catolica Nacional** YL talks about Jesus (433 3/23 Bishop-NY)
9745 0200 **HCJB** EE; "Musica del Ecuador" vocals and instrumentals (222 3/11
Brown-IL)(Stringer-NZ)
11795ⁿ 0505 **HCJB** EE; "Discovery" with John Beck on Big Bang theory (343 3/11
Westenhaver-QU) (Cichorek-NJ)
11800 0120 **HCJB** EE; "Passport" (444 4/10 Bronowicz-MO)
15155 0205 **HCJB** EE; Peruvian singer, address, Ecuador National Orchestra (444 3/18
Brown-IL) (Johnson-IL) (Fraser-MA) (Neff-FL) (Langlois-FL)
21470 2030 **HCJB** FF; ID, schedule, "Rencontres" (354 3/28 Westenhaver-QU)

GUATEMALA

4800 0327 **R Buenas Nuevas** Male chorus, ID, address (343 4/5 Carson-OK)

HONDURAS

4755 2355 **Sani Radio** Nx with OMs and TC (433 4/3 Thornton-NJ)
4820 0131 **V Evangelica** ID with 2 OM talking (322 3/28 Thornton-NJ)

NETHERLANDS ANTILLES*Radio Nederlands***Trans World Radio*****

6020 0033 **RN** EE; Nx: Czechs admit selling plastique to Libya (433 3/22 Brown-IL)
(Park-HI)
6165 0054 **RN** EE; "Media Network" (433 3/29 Brown-IL)
9535 0315 **TWR** EE; "Pastor to Pastor" radio Bible class, ID (444 3/21 Brown-IL)
9590 0335 **RN** EE; Nx: S African minister, French racism (433 3/14 Brown-IL)
(Johnson-IL)
9715 0750 **RN** EE; "Media Network" with Aruba fieldtrip (444 4/5 Park-HI)
11720 0330 **RN** EE; Nx: Lithuania, Tokyo stocks, Newslite (444 3/21 Brown-IL)
11740 0102 **RN** EE; "Rembrandt Express" (444 3/31 Westenhaver-QU)
11890 1033 **RN** "Happy Station" (544 3/25 Park-HI)
11930 0320 **TWR** EE; the story of Jacob (434 4/10 Johnson-IL)
15310 2244 **RN** PP; Feature programs (444 4/9 Johnson-IL)
15315 0105 **RN** EE; DX info (444 3/15 Brown-IL) (555 3/30 Westenhaver-QU) (333 4/6
Park-HI) (Stringer-NZ)
15560 0750 **RN** EE; "Media Network" with Sony Receiver review (544 3/22 Park-HI)

PARAGUAY*Radio Nacional**

9735 0914 **SS** and Guarani; Polkas, OM with IDs and wx, ag news (343 3/13
Westenhaver-QU)

PERU

4935 1030 **R Tropical** OM mentions "Tarapoto" and April 8 (222 3/31 Thornton-NJ)
4995 0020 **R Andina** Highlands folk mx with accordian and strings (222 3/29
Thornton-NJ)

PIRATES***The Days of Whines and Roses***

7545 0412 **WBRI** Comic parody of "One Day at a Time" ID as "the Northern Hemisphere Service of Intrepid Broadcasting Service, WBRI." Rock mx (333 3/18 George-MA)

UNITED STATES OF AMERICA ***Radio Marti***Voice of the O.A.S.***Voice of Free China***

5950 1230 **WYFR** "Science Scripture, and Salvation" (444 4/14 McCants-AL)

5995 0007 **VOA** China on favored nation status (444 3/31 Brown-IL)

6100 0714 **WHRI** European service freqs., "Faith Seminar of the Air" (444 3/14 Westenhaver-QU)

6150 1110 **WSHB** "One Norway Street" (444 3/16 Stringer-NZ)

6185 0405 **WRNO** World of Radio (333 3/24 Carson-OK)

7315 0100 **WHRI** SS; "Voice of the Foundation" anti-Castro prog. (444 3/29 Carson-OK)

9410 0106 **WSHB** "Curtain Call" Broadway musical review (454 3/28 Westenhaver-QU) (Johnson-IL)

9495 0025 **WHRI** Mx by Amy Grant, ID (444 3/18 Neff-FL)

9590 1300 **RM** SS; speech by Fulgencio Bautista (555 3/17 Robinson-TN)

9680 0233 **VOFC** Program changes, birthday wishes (333 3/24 Brown-IL)

9850 0145 **WCSN** Om IDs broadcast to Africa (444 3/26 Langlois-FL)

11830 2030 **WYFR** "Unshackled" followed by mx (454 4/15 McCants-AL)

13695 0728 **WYFR** "Mailbag," "Science, Scripture and Salvation" (232 3/17 Famularo-JP)

15120 1036 **VOA** "Tuesday Morning" (222 3/27 Park-HI)

15145 0045 **WINB** OM ID, Organ mx (444 3/9 Langlois-FL)

15160 2345 **V OAS** SS; nx of Paraguay and Mexico, Supreme Court (555 3/16 Robinson-TN)

15185 2045 **WINB** "20th Century Reformation Hour" (454 4/15 McCants-AL)

15560 1740 **WWCR** "Point of view" call-in show on abortion (343 3/22 Brown-IL)

15580 2224 **KUSW** Fleetwood Mac (333 3/16 Bronowicz-MO)

15690 2000 **WWCR** ID into USA Radio network (555 3/11 Westenhaver-QU) (Morton-NY) (Bronowicz-MO)

17775 1725 **KVOH** SS; prayer by YL, talk by OM (555 4/6 Reeves-OR)

17785 1726 **VOA** Sudanese civil war (434 4/6 Reeves-OR)

17830 2320 **WHRI** healing and good health discussed (333 3/27 Brown-IL)

17845 2222 **WYFR** "Mainways and Byways," "Mailbag Time" (333 3/25 Brown-IL)

17845 2250 **VOFC** CC lesson (444 3/31 Westenhaver-QU)

21490 0956 **VOA** SS; "Buenos Dias America" (323 3/20 Park-HI)

21525 1732 **WYFR** AA; talk by OM (333 4/6 Reeves-OR)

21615 1732 **WYFR** GG; talk by OM (322 Reeves-OR)

21640 1733 **WCSN** Strangeways prison in UK (444 4/6 Reeves-OR)

VENEZUELA

4830 0012 **R Tachira** OM with ID and Latin mx (343 3/10 Neff-FL)

4980 2220 **Ecos de los Torbes** OM talks (222 3/9 Bishop-NY)

9540 0010 **R Nacional** ID, Freqs in EE, talk in SS (222 4/6 Thornton-NJ)

William Westenhaver sends along the schedule for the new Radio Korea relay via Sackville in Canada. Since this is a Western Hemisphere site, the loggings for the following frequencies of Radio Korea would come to me:

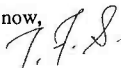
11715 kHz from 1000-1030 in SS and from 1030-1100 in EE

6145 kHz from 1100-1130 in Korean

9650 kHz from 1100-1130 in Korean

Remember as always loggings to our CDE by the fifth of the month and to me by the twelfth of the month. Be good and enjoy the baseball season wherever you are.

Bye for now,



EUROPE

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



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

BOARDING PASS
Row
Seat Window Center Aisle
Flight
Destination: _____

EUROPE

This month the contributions came a few lines shy of the page allotment which is rather unusual. As long as I've got the stand I have some bad news. Due to time constraints from my job and other activities I must resign from doing the Europe column. I will continue to do the column until a new editor is selected. If you would be interested in editing this column or any other should the opportunity arise contact Woody Seymour, Jr., P. O. Box 848, Sanford, NC 27330. I will continue to edit What's On and serve on the editorial committee.

ALBANIA Radio Tirana

- 9480 0429 RT EE; IS, OM w/ s/on (232 4/6 Johnson-IL)
- 9760 2337 RT EE; rpt on the wld population, weightlifting team (333 3/12 Brown-IL)
- 2344 EE; choral singing, Let's Learn Albanian (454 4/1 Cichorek-NJ)
- 11825 0235 RT EE; nx on Yugo., ID @ 0238, mx (333 4/1 Berri-CA)

AUSTRIA Radio Austria International

- 9875 0130 RAI EE; Rieger wants change in Austria election laws, spts (444 3/15 Brown-IL) 0134 EE; Greta Garbo's films (343 3/26 Carson-OK) 0135 EE; Expo 1995 w/ both Vienna & Budapest (433 3/21 Bishop-NY) 0140 EE; Hungarian minority in Romania (454 3/22 Fraser-MA)
- 12010 1945 RAI EE; mailbag pgm, // 13730 (343 3/25 Prath-FL)
- 13730 0130 RAI EE; contry on refugee camps in Austria which are overcrowded (454 3/18 Roupe-WV) 0850 EE; The Salzburg Nachrichten, Gorbachev heading for democratization & reform of the Soviet Union (555 3/17 Leader-Ireland) 0157 EE; waltz, multi-ling. ID, start of GG pgm (333 3/29 Brown-IL) 0530 GG; ID, IS (353 4/6 Johnson-IL)

BELGIUM Belgische Radio en Televisie

- 9925 0035 BRT EE; Brussels Calling, commission on real estate make accommodations (232 3/16 Brown-IL)
- 12010 2330 BRT EE; IS, ID, Brussels Calling (322 3/25 Prath-FL) 2210 EE; DX item, folk mx (333 3/17 Levison-PA)
- 17555nf 1240 BRT EE; rpt on Belgian nuns getting involved in get-rich-quick schemes, e.g. turning a convent into a luxury hotel (343 3/28 Westenhaver-QU)
- 25645 1250 R-TV Belge de la Communaute Francaise FF; FF/EE lite pop mx, OM w/ ID (343 3/24 Prath-FL)

BULGARIA Radio Sofia

- 11680 2220 RS EE; Bulg. religious folklore, FF pgm @ 2230 (333 3/31 Prath-FL)
- 11720 0333 RS EE; Scanning the Pages (444 3/30 Carson-OK)
- 11735 0335 R. Moscow relay EE; Parallels about business ventures in the U.S.S.R. by Canadian firms (444 3/11 Westenhaver-QU)
- 15330 2150 RS EE; listener's letters, mx (444 4/1 Prath-FL) 2146 EE; intelligence departure (444 4/1 Cichorek-NJ) 2135 EE; privatization of the tourism industry (423 4/6 Johnson-IL) 2203 EE/FF; mailbag, intvw w/ a Bulg. writer (333 3/25 Carson-OK) 2145 EE; Music from Bulgaria (555 3/17 Fraser-MA)

CZECHOSLOVAKIA Radio Prague -- Hopefully Radio Prague will be back on the air when you receive this bulletin.

- 5930 0258 RP EE; nx, Havel says Czech. sent 140 tons of plastic explosive to Libya (333 3/26 Brown-IL) 0100 EE; Youth Magazine, Stamp Corner (555 3/18 Landau-NJ) 0120 EE; int'l Day of the Disabled (554 3/22 Fraser-MA)
- 7345 0345 RP EE; mailbag, r&r mx (434 3/24 Carson-OK)
- 9505 0603 RP Inter-programme, rock variety (343 3/26 Janusz-NJ)
- 11990 0340 RP EE; Green Spot, intvw w/ an English teacher living in Czech. (343 3/27 Carson-OK) 0332 GG; flower stamps, mx (444 3/18 Levison-PA)
- 13715 2300 RP ID, Inter-programme w/ multi-ling. nx (444 3/11 Prath-FL)
- 21505 1805 RP EE; Made in Czechoslovakia, Czech mx (343 3/10 Prath-FL)

FINLAND Radio Finland
9645 0000 RF EE; ID, Northern Report (343 3/10 Neff-FL)
11755 0635 RF EE; nx, YL ancr (343 4/6 Johnson-IL)
15185 2310 RF EE; Compass North, Europe 1992, // 11755 (444 3/31 Prath-FL) 1520 EE; comtry on a possible Scandinavian Treaty (333 3/17 Roupe-WV)
15400 1425 RF EE; listener's letters, Finnish lang lesson @ 1433 (444 3/17 Prath-FL) 1400 EE; tlk on 1040 war w/ U.S.S.R. (443 3/14 Hart-MX) 1312 EE; cross country skiing World Cup (333 3/21 Gaharan-LA)
17800 0934 RF EE; nx, Fin. press on Lithuanian situation (fr-gd 3/21 Famularo-Japan)

FRANCE Radio France International
6320 1010 41FR New Zealand EE; N. Zeal. DJ, pop/rock mx, ID, address in France (333 4/3 Willers-Switzerland)
6321 1107 R. Waves Int'l EE; German DJ, Paul McCartney, "This is R. Wave Int'l," QSB (332 4/3 Willers-Switzerland)
15195 1230 RFI EE; wld nx (343 3/21 Gaharan-LA)
17620 1600 RFI EE; nx, features on Southern Afr (444 4/2 Valentine-CA) 1715 FF; mx w/ FF anmts (444 4/6 Reeves-OR)
17650 1244 RFI EE; rpt on VAL automatic train control system invented in France by Matra & sold all over the world (343 3/28 Westenhaver-QU)
21635 1245 RFI EE; Focus on France, local nx, // 21645 (444 3/17 Prath-FL)
21830nf #1400 RFI AA; RFI theme mx, ID, OM/YL w/ wld nx (pr-fr 3/25 Famularo-Japan)

GERMAN DEMOCRATIC REPUBLIC Radio Berlin International
5965 0522 RBI EE; letters from listeners, mostly on reunification (433 3/26 Janusz)
6080 0126 RBI EE; implications of unification (222 4/9 Cichorek-NJ)
11785 0145 RBI EE; East & West German tlks (333 3/29 Brown-IL) 0435 EE; Faces & Places, Interflug's Training Center in Berlin (333 3/21 Carson-OK) 0319 EE; Give Peace A Chance (544 2/11 Park-HI) 0210 EE; best selling sport books in the G.D.R. (433 3/28 Gaharan-LA)
13610 0521 RBI EE; press review on newly-independent Namibia (322 3/27 Park-HI)
15125 0520 RBI EE; U.S. & U.S.S.R. underground nuclear test (343 3/18 Roupe-WV)
21465 1145 RBI EE; Give Peace a Chance pgm (242 3/31 Prath-FL)

GERMANY, FEDERAL REPUBLIC OF Deutsche Welle
3995 0241 DW GG; OM w/ tlk, GG mx (433 3/4 Bishop-NY)
6085 0145 Bayerischer Rundfunk GG; soft vocals, 0200 ID, nx about Hung. & S. Afr. (433 4/9 Cichorek-NJ)
6239.5 0939 R. Maribu FF; French DJ, new wave/punk mx, ID & address in EE (333 4/3 Willers-Switzerland)
11705 0509 DW EE; editorial, mailbag, DW could move to Berlin (434 4/1 Carson-OK)
11765 0605 DW EE; comtry on E. Germ. elections (333 3/18 Brown-IL)
11815 2145 R. Free Europe RR?; ID, tlk (343 4/6 Johnson-IL)
11865 0412 DW RR; Nelson Mandela's release, // 9650 (433 2/12 Park-HI)
13780 2245 DW GG; lite EZL nx, OM/YL announcers, // 6075 (454 3/11 Prath-FL) 2300 GG; OM, nx (444 3/15 Valentine-CA)
15435 *0700 DW AA; IS, AA/GG ID's, freqs, AA mx, YL w/ tlk (fr-gd 4/3 Famularo-Japan) 0657 AA; ID "Wa habat...DW...arabiya," site ID, IS, nx (433 3/28 Park-HI)
17820 0919 DW EE; wealth of the West vs. social security of the East (554 3/17 Leader-Ireland)
25740 1220 DW GG; political tlk about unrest in Haiti, // 15105 (444 3/10 Prath-FL)

GREECE Voice of Greece
9395 2330 VOG EE/Greek; Social Democratic Party leaders (545 3/19 Robinson-TN) 0133 EE; U.S. politician criticizes U.S. policy on Cyprus (333 3/21 Brown-IL)
9420 0155 VOG EE; nx (454 4/10 Johnson-IL)
9425 2340 VOG SS; OM w/ ID, nx (444 3/31 Prath-FL) 1425 Greek; soft piano mx, OM w/ tlk, Greek mx (444 3/23 Willers-Switzerland)
11595 1430 Thessaloniki Greek; 2 OM in discussion, song from Duran Duran, Greek mx, tlk about Barcelona (555 3/23 Willers-Switzerland)
11645 1535 VOG EE; nx, Greek politics & Cyprus (333 4/6 Reeves-OR) 0346 EE; activities of Greek Communist Party (434 3/28 Carson-OK) 1837 EE; piano etude, nx, // 15630 (322 2/9 Park-HI)
11740 1847 VOA relay Amharic; mx, nx headlines (222 4/7 Park-HI)
11780 0215 VOA relay EE; IS, EE ID, start of pgm in Dutch (333 3/30 Brown-IL)

HUNGARY Radio Budapest
9585 1130 RE EE; DX show, DX catches from members in U.K. & Algeria, new clandestine magazine (555 3/3 Willers-Switzerland)
9835 0040 RE EE; Hungarian elections (333 3/27 Brown-IL) 0031 EE; nx (333 4/2 Bronowicz-MO)

HUNGARY continued

15160 2215 RB EE; comtry on the different parties who are running in Hungary first free elections in 46 years (333 3/23 Roupe-WV) 0035 EE; Hung. signs a smuggling agreement (433 3/17 Brown-IL)

15220 2230 RB Hungarian; IS, ID "Ich Budapest, nx, // 9835 (333 3/10 Prath-FL)

ICELAND

13855 2302 Ríkisútvarpid Icelandic; nx (343 4/9 Johnson-IL)

ITALY Radiotelevisione Italiana

7275 0420 RAI unid lang; bird call IS (312 4/10 Johnson-IL)

7556.6 1214 V. of Europe EE; YL, Alan Parson, "This is the V. of Europe," address in Italy (444 4/3 Willers-Switzerland)

7556.7 0415 V. of Europe EE; lite rock, EZL, ID @ 0418 (222 3/18 George-MA) address as given by the AMARC SWL Net: P.O. Box 26, 33170 Fordenone, ITALY.

9860 0722 Italian R. Relay Svce EE; mailbag, U.N. Radio (333 4/1 Carson-OK)

15330 0352 RAI EE; canned s/on anmt, dead lady w/ nx, QRM de Japan-15325 & BSKSA test tone-15335 (322 3/10 Westenhaver-QU)

MALTA Voice of the Mediterranean

7110 1959 IBRA Radio Polish; EE ID, Polish pgm, ute QRM (322 3/13 Bishop-NY)

2058 VOM RR; RR rel pgm, Stockholm address, IS, EE ID (323 3/10 George-MA)

9765 0600 VOM EE; YL w/ ID & pgm description (343 4/6 Johnson-IL)

11925 *1400 VOM EE; rpt about Ghana, Tom Thompson tlks about his visit to the ME (544 3/23 Willers-Switzerland)

15425 2255 DW relay PP; tlk, ID w/ freqs @ 2300, nx, // 15105 (343 3/4 Prath-FL)

NETHERLANDS Radio Nederland

6020 0030 RN EE; Happy Station, // 6165 & 15315 (555 3/12 Fraser-MA)

9815nf 0425 RN EE; Newslne, // 13700, b/c cancelled on 3/25 (233 3/23 Park-HI)

11660 0351 RN Dutch; Nelson Mandela's release (322 2/12 Park-HI)

13700 2215 RN Dutch; spts, YL w/ scores, // 6020 (444 3/11 Prath-FL) 0426 EE; Sunday Spotlight, // 9815 (322 3/18 Park-HI)

15560 2055 RN EE; Happy Station, harp mx (333 3/25 Brown-IL)

21520nf 1158 RN EE; Media Network, rpt on TV Marti (443 3/29 Westenhaver-QU)

NORWAY Radio Norway International

17765 1608 RNI EE; future int'l airport, seal hunting, Listener's Corner, cl mx, // 21705 (332 4/1 ed.)

25730 0713 RNI Norwegian; Postkassa pgm, mailbag presumed + Top 40 (222 4/1 Park-HI)

1750 Danmarks R. Danish; current affairs pgm, EE ID, 1755* (555 3/17 Hanson-WA)

POLAND Radio Polonia

7270 2250 EE; rpt about Soviet troops in Poland (444 3/10 Prath-FL) 2310 EE; Katlyn Forrest Massacre (433 4/1 Cichorek-NJ)

9675 0636 EE; Panorama (322 4/5 Johnson-IL)

PORTUGAL Radio Portugal

6085 0330 RDP EE; feature pgms (333 4/10 Johnson-IL) 0312 EE; Living in Germany, Larry Wayne's Random Selection (434 3/26 Carson-OK)

6130 0716 RDP PP; wld nx, Port. football, exchange rates for escudo (343 3/14 Westenhaver-QU)

9600 0231 RDP EE; nx, rpt on E. Germ. elections (322 3/19 Brown-IL)

15215 2112 R. Free Europe Romanian; non-stop Supremes songs (333 4/3 Carson-OK), cont. hits (434 3/28 Westenhaver-QU)

15250 2123 RDP EE; Port. Past & Present, tlk on 16th Century writer, FF @ 2130 (fr 3/22 Famularo-Japan)

ROMANIA Radio Romania International

5990 0240 RRI EE; democracy in Romania (232 3/30 Carson-OK)

9510 0000 RRI SS; ID "Aqui, R. Romania Int'l," OM w/ nx (322 3/31 Prath-FL)

9570 0403 RRI EE; nat'l minorities, election campaigns (333 4/3 Carson-OK)

9690 2100 RRI EE; symphonic mx, Eugene Ianesco Symphony Orch., address is P.O. Box 111, Bucharest (545 3/17 Robinson-TN)

11940 0400 RRI EE; nx, features (422 4/8 Johnson-IL) 0402 EE; nx, press review (333 4/1 Carson-OK) 0410 EE; free enterprise getting off the ground (422 4/2 Park-HI) 0400 EE; nx, American Diary (333 3/18 Levison-PA)

15250 1505 RRI EE; nx, lite mx, ID "This is Bucharest, R. Romania Int'l" (pr-fr 3/17 Famularo-Japan)

17745 0529 RRI EE; nx, QRM de France (322 4/3 Carson-OK)

17850 1349 RRI EE; DX show, expected ham band propagation conditions in April (333 3/28 Westenhaver-QU)

SPAIN Radio Nacional de España

9630 0015 RNE EE; Lithuanian problem of independence, wld nx (444 3/10 Valentine-CA) 2358 EE; Spanish fishermen lift the blockade of the port (444 3/12 Brown-IL) 0526 EE; SS carnival mx, DX pgm (434 2/25 Stringer-New Zealand)
 118757 0040 RNE EE; concerts of French singer in Madrid (554 3/27 Gaharan-LA)
 11880 0102 RNE EE; Spanish PM meets w/ Nicaragua representative (433 3/11 Brown-IL) 0053 EE; ID, mx (433 3/22 Hart-MN) 0050 EE; nx of celebrities, nx (333 4/2 Bronowicz-MO) 0007 EE; E. Germ. elections (544 3/20 Bishop-NY) 0030 EE; Madrid is the noisiest city in the world after Tokyo (555 3/23 Fraser-MA)
 15395 1935 RNE EE; Sunday DX Spot w/ tips, tik, // 15375 (343 3/11 Prath-FL)

SWEDEN Radio Sweden

9695 0230 RS EE; rpt on Lithuanian tensions, nuclear power (333 3/23 Brown-IL)
 11705 0241 RS EE; unemployment increase in Denmark (333 3/17 Brown-IL)
 21500nf 1551 RS EE; review of the Nordic nx week, ruined @ 1553 by WYFR IS (343/322 3/31 Westenhaver-QU)

SWITZERLAND Swiss Radio International

6135 0202 SRI EE; Libya makes arrests for the chemical fire (433 3/19 Brown-IL)
 9535 0740 SRI EE; E. Germ. politicians overwhelmed by the arrival of W. Germ. politicians (555 3/17 Leader-Ireland) 0730 EE; Swiss SW Merry-Go-Round, tlk on Sony ICF-2001D (ICF-2010), Kenwood R-5000 & Icom R-71A (444 3/16 Stringer-New Zealand)
 9810 2320 SRI I; technical questions from listeners, // 9885 (454 3/10 Prath-FL)
 9885 0201 SRI EE; forest fire continues in Switz. (343 3/26 Brown-IL)
 12030 0628 SRI EE; Swiss mx, Dateline, Swiss SW Merry-Go-Round (232 3/17 Park-HI)
 12035 0200 SRI EE; Lithuanian situation, Dateline (444 3/27 Brown-IL) 0220 EE; smoking & the Eur tobacco industry (444 3/30 Carson-OK)
 13635 *1100 SRI EE; rpt about Ghandi & India, Swiss SW Merry-Go-Round (444 3/3 Willers-Switzerland) 1843 GG; Swiss "country" mx (434 2/10 Park-HI) 2140 EE; money laundering operators to be tried (343 3/20 Neff-FL)
 15430 1545 SRI EE; YL w/ ID followed by FF pgm (444 3/20 Valentine-CA) 0646 EE; Dateline, Int'l Woman Conf in Lucerne (343 3/15 Park-HI)
 15525 2105 SRI EE; ferry fire, Sunday Supplement (434 4/8 Cichorek-NJ) 1856 GG; nx, QRM de FF lang station (222 3/25 Carson-OK)
 17830 1545 SRI EE; discussion w/ channel 1 pgms, Swiss mx (433 4/2 Valentine-CA)
 25680nf *1330 SRI EE; wld nx, riots in Macao, seems to replace 13635 (333 3/29 Westenhaver-QU)

UNITED KINGDOM British Broadcasting Corporation

6045 0857 BBC EE; ID "Liliburlero," nx, Gorbachev's rejection of Lithuanian declaration of independence (343 3/13 Westenhaver-QU)
 7325 0030 BBC EE; pgm on Leopold Stokowski (555 3/23 Fraser-MA)
 9915 0033 BBC EE; rpt on Romania, waste of the Communist Gov't (333 3/27 Brown-IL)
 11840 0616 RCI relay EE; nx, co-channel Moscow, het QRM (323 3/5 Stringer-N. Zealand)
 12095 0030 BBC EE; Radio Active (555 3/15 Fraser-MA)
 15070 2020 BBC EE; teaching methods, Britain vs. the rest of the wld (333 3/25 Brown)
 17640 1718 BBC EE; pgm about pianists (222 4/6 Reeves-OR) 1646 EE; Letter from America (434 3/25 Carson-OK)
 17695 1723 BBC EE; piano mx (333 4/6 Reeves-OR)

VATICAN CITY Vatican Radio

6150 0049 VR EE; Vatican Viewpoint, Pope speaks out on literacy (444 3/29 Brown-IL)
 9605 0050 VR EE; Vat. Viewpoint, Lith. situation, ethnic Albania (444 3/28 Brown-IL)
 9645 2100 VR EE; nx of Lithuania, tlk of Vatican R. pgms (555 3/17 Robinson-TN)
 11725 0310 VR EE; Vat. Opinions, capital punishment in the U.S. (433 3/28 Johnson-IL)
 11750 0215 VR SS; SS mx, ID, to LAm (433 3/11 Brown-IL)
 11780 0105 VR EE; fire in NY kills 87 people (333 3/26 Brown-IL)
 17710 1658 VR FF; IS, African drums, ID "Ici R. Vatican" (343 4/1 Carson-OK)
 17730 0700 VR SS; IS, 0706 into Sermon by Pope in SS (434 4/1 Carson-OK)

YUGOSLAVIA Radio Yugoslavia

5980 1943 RY EE; comtry about Yugo. & Albania, intvw w/ Yugo. president (534 3/1 Willers-Switzerland)
 6005 0115 RY EE; political comtry on E. Germ. elections (333 3/18 Roupe-WV)
 7215 2200 RY EE; ID, nx, comtry on East Bloc reforms (333 3/10 Prath-FL)
 9660 2206 RY EE; Yugo. as an associate member of the EEC (454 3/8 Cichorek-NJ)
 11735 0030 RY FF/EE; FF pgm w/ nx & comtry (343 3/24 Carson-OK)
 15105 2104 RY EE; nx, rpt on Kosovo situation, co-channel AA station--Morocco? (333 3/28 Westenhaver-QU)
 17740 1216 RY EE; Pop Flash profiling local OM pop singer, s/off anmt ment this freq // 21555 & 25795 (343 3/31 Westenhaver-QU)
 25795 1212 RY EE; tlk about Yugo.'s relations w/ the EEC (232 4/1 Westenhaver-QU)



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

- 4930 0049 RM (DS2)-Ashkhabad (ILG): RR; M/W vocals, arias, instr. mx, @ 0059 IS, TP, ID @ 0100 (333 3/23 Cichorek-NJ)
- 5925 2126 R. Tallinn-Tallinn (ILG): Estonian; instr. mx, partial ID, nx, mx pgm, GRM de co-chan. RM (222 2/4 D'Angelo-PA)
- 6030 2140 RM-Moscow (ILG): EE; discussion on Byelorussia (322 3/27 Thornton-NJ)
- 7150 0045 RM-Lvov (ILG): EE; "Musical Kaleidoscope" (554 2/3 Fraser-MA)
- 7325 1350 RT-Tashkent (ILG): EE; M ID, tlk on Afghanistan, !! 15470 (433 4/4 -ed)
- 7400 0355 RY-Yevpatoriya (ILG): EE/Armenian; ID, nx, freqs, mx, 0359* (444 1/28 Karcheski-MA) (Levison-PA)
- 7400 2327 RY-Yevpatoriya (ILG): EE; flute mx, review of musical events, ID, "Good Bye and Good Luck" by W, IS @ 2329 (444 1/24 Cichorek-NJ)
- 9470 2116 RM-Frunze (ILG): FF; mailbag pgm (343 3/11 Westenhaver-QU)
- 9540 1345 RM-Petropavlovsk (ILG): EE; W ID, end of "Focus on Asia & Pacific", rock mx (434 4/4 -ed)
- 9540 1220 RT-Tashkent (ILG): EE; cmtry on foreign minister's visit to Namibia (343 3/17 Roupe-WV)
- 9685 2333 RM-Lvov (ILG): EE; "Outlook" - rpt on Polish reaction to German reunification, ID (444 3/27 Brown-IL) (Fraser-MA)
- 9825 0605 RM-Petropavlovsk (ILG): EE; appeal for help of Chernobal victim (332 4/7 Johnson-IL)
- 9860 2230 RM-Kenga (ILG): RR; s/on w/ Mayak IS, ID, W nx (444 3/17 Prath-FL)
- 11655 2248 RM-Ivanofrankovsk (ILG): EE; "Vasily's Weekend" - lambada & jazz mx, Vasily Strelnikov sounding wilder than ever! (444 3/11 Westenhaver-QU)
- 11785 1330 RT-Tashkent (ILG): EE; IS, ID (322 4/2 Reeves-OR) (Cichorek-NJ)
- 11800 0058 RM-Dushanbe (ILG): EE; RMWS ID, s/off mx (242 3/19 Fraser-MA)
- 11835 *0900 RM-Kenga (ILG): CC; IS, s/on w/ M ID, tik (pr 3/27 Famularo-JP)
- 11850 2020 RM-Ryazan (ILG): EE; "Africa Weekly" pgm, ID (343 4/1 Roupe-WV)
- 11870 1353 RSP&P-Khabarovsk (ILG): EE; RR pop mx, M ID, sked, RM IS, into CC pgm (322 3/28 -ed)
- 11940 1958 RM: AA; IS to 2000, M s/on anmt, "Huna Moscow" ID, into nx (243 3/30 Westenhaver-QU)
- 12005 0320 RK: EE; tlk abt aircraft building in the Ukraine (333 3/22 Carson-OK)
- 12010 1659 RM-Petropavlovsk (ILG): EE; ID & anmt, mx, Spassky bells & nx, GRM de RFI on 12015 (322 3/19 Park-HI)
- 12060 2302 RY-Yevpatoriya (ILG): EE; nx abt Lithuania, ID's (232 3/23 Cichorek-NJ)
- 12060 2328 RK-Yevpatoriya (ILG): EE; IS, M ID, nx (323 4/6 -ed) (Stringer-NZ)
- 12065 1103 RM-Khabarovsk (ILG): JJ; M nx, ID @ 1110 "Kochiwaru R. Mosuko-bo hoso desu", W w/ feature, !! 5905 (333 4/9 Park-HI)
- 12065 1605 RSP&P-Orsha (ILG): Azerbaijani; unfamiliar long tik, ME style mx, fast paced chanting (not Koran) (fr 3/30 Famularo-JP) (Ralph marked this log as R. Tashkent (t) in Uzbek, but this is RSP&P according to the 089 ILG. -ed)
- 12065 *1630 RY: Armenian; on after above log, IS, M ID "Yerevan E Khosoim", nx (fr 3/30 Famularo-JP) (Not listed, but probably same site as above -ed)
- 12070 *0300 RSP&P-Yevpatoriya (ILG): Creole; s/on anmt, nx (444 3/11 Westenhaver-QU)
- 12070 0731 RM (DS1)-Vladivostok (ILG): Orbita live coverage of Gorbachev speech, 1/2 sec. ahead of CNN's coverage, !! 12040 (333 3/15 Park-HI)
- 13645 0226 RM: RR; rock mx, Mayak IS @ 0229, TC, nx (444 3/20 Westenhaver-QU)
- 13665 0550 RM-Petropavlovsk (ILG): EE; "Moscow Mailbag", into wld nx @ 0600 (433 4/5 Carson-OK)
- 13740 2230 RM: RR; Mayak IS, ID, M nx, !! 4765 (333 3/11 Prath-FL)
- 15045 1358 RM: RR; Mayak (?) pgm of light mx, Kremlin bells, soviet anthem, M/W tlk, more light mx (fr 3/30 Famularo-JP)
- 15150 1000 RM-Moscow (ILG): EE; Midnight in Moscow, Kremlin bells, ID & nx (343 4/7 Roupe-WV)

15160 1630 RM: EE; M/W nx (433 4/3 Valentine-CA) (More details please -ed)
15180 2300 RV-Komsomolsk (ILB): EE; nx, "musical life" readings (433 2/17 Flynn-CA)
15180 0250 RV-Komsomolsk (ILB): EE; mx, tik abt Azerbaijan (333 4/7 Johnson-IL)
(Brown-IL)
15280 0555 RM-Zhigulevsk (ILG): EE; mx, ID (333 3/17 Brown-IL)
15425 0428 RM-Petropavlovsk (ILG): EE; "Outlook", "New Market", RM DX pgm @ 0451
(444 3/27 Carson-OK)
15460 1205 RM-Zhigulevsk (ILG): EE; M nx, "New Market" pgm, !! 15560, 15475, 15465
(433 4/1 Park-HI)
15470 1200 RI-Tashkent (ILG): EE; nx abt Lithuania & Gorbachev, pop mx (545 3/24
Robinson-TN) (Reeves-OR)
15475 0708 RM: EE; nx of 1st liver transplant in USSR (555 2/21 Morton-NY)
15520 1330 RSP&P-Frunze (ILG): EE; cmtry on democracy (433 3/7 Gaharan-LA)
15525 0324 RSP&P: PP; W tik abt Soviet ecological movement, M ID @ 0328, IS to
*0330 in SS, !! 15550, 15585 (343 3/11 Westenhaver-QU)
15525 2200 RM-Serpukhov (ILG): SS; ID, W nx, !! 12070, 11700 (333 4/1 Prath-FL)
15550 1745 RM-Yevpatoriya (ILG): EE; cmtry on US view of Lithuania, ad for "RPM"
(444 3/22 Brown-IL) @ 0200 in SS (Park-HI)
15580 1017 RM-Irkutsk (ILB): Malaysian; Koran reading, anmt, tik abt Gorbachev w/
ments of RM (323 3/22 Park-HI)
15825 0131 RM: EE; "Inside Report" (344 3/3 Stringer-NZ) (15825? -ed)
17570 1721 RM-Tbilisi (ILB): EE; ID, "Program for Farmers" - visit to a Kirghiz
horse farm, !! 17565 (343 3/22 Westenhaver-QU) (Flynn-CA)
17585 1820 RM: EE; "Mailbag" pgm, !! 11840 (444 3/25 Prath-FL) (Westenhaver-QU)
(Reeves-OR)
17605 2145 RM: EE; DJ w/ David Bowie mx, played song requested by SPEEDXer Gary
Gears in Chicago, ment WLS radio (232 4/1 Park-HI)
17605 0015 RM-Petropavlovsk (ILG): EE; nx on Lithuania, !! 9685 (343 3/31 Prath-FL)
17620 0122 RM-Kalach (ILG): EE; mx, ID, "Moscow Nights" (333 1/1 Brown-IL)
17660 1528 RM-Moscow (ILG): EE; "News & Views", nx briefs @ 1430, "Yours for the
Asking" (343 3/8 Westenhaver-QU) (Prath-FL)
17665 2203 RV-Petropavlovsk (ILG): EE; Soviet troops in Lithuania, !! 17690 (434
4/6 Carson-OK) (Famularo-JP)
17665 *2330 R. Minsk-Petropavlovsk (ILB): Byelorussian; IS, M/W "Govorit Minsk" ID,
lots of tik re. Lithuania (gd 3/20 Famularo-JP) (Reeves-OR)
17685 1604 RM: EE; wld nx - bombing of Kabul by rebels (233 3/28 Park-HI)
17690 0309 RM-Petropavlovsk (ILG): EE; request for help for a child needing a bone
marrow transplant (433 4/7 Carson-OK)
17690 2206 RV-Petropavlovsk (ILG): EE; nx abt Soviet troops in Lithuania, rally in
Vilnius, !! 17665 (423 4/2 Carson-OK) (Roupe-WV) (Prath-FL)
17690 0039 RK-Petropavlovsk (ILB): EE; cmtry, ID @ 0040, pgm on activities in the
Ukraine (333 3/3 Cichorek-NJ) (Carson-OK)
17720 0130 RM-Petropavlovsk (ILG): EE; M tik on book exchanges in USSR (444 3/15
Valentine-CA)
17810 1727 RM-Yevpatoriya (ILG): EE; tik on soldiers in '50s exposed to radiation
(333 4/6 Reeves-OR)
17825 0139 RM-Irkutsk (ILB): EE; "Inside Report", ID @ 0151 (343 3/3 Cichorek-NJ)
21470 0010 RM-Petropavlovsk; EE; pgm highlites, "Outlook" (433 3/10 Westenhaver-QU)
21525 1354 RM-Alma Ata (ILB): CC; W tik, clarinet version of "Stardust", ID/closing
annts, IS to *1400 in listed Tagalog (333 3/15 Westenhaver-QU)
21550 *1500 RM-Orsha (ILB): Farsi; "Inja Moscow" ID & sked, M nx to 1510, into "News
& Views"-type pgm (343 3/10 Westenhaver-QU)
21690 2358 RM-Khabarovsk (ILB): EE; ID, "Moscow Nights", ID @ 0000 into nx (343 3/9
Westenhaver-QU)
21690 2150 R. Rodina: RR; M w/ pop mx, W ID/annt, IS (422 1/1 Park-HI)
21715 1205 RM: FF; M nx, ID, tik, !! 21800, 17565 (222 3/31 Prath-FL)
21725 1240 RM-Tbilisi (ILG): EE; RR pop mx pgm, !! 15460, 15480 (242 3/31 Prath-FL)
(Westenhaver-QU)
21765 1459 RM: RR; Mayak IS, TP, W TC, "Vy slushaete Mayak" ID, into nx abt
Gorbachev (444 3/18 Westenhaver-QU)
21800 1405 RM-Yevpatoriya (ILG): FF; nx, ID (443 3/11 Westenhaver-QU)
25780 1230 RM-Armavir (ILB): EE; nx briefs, ID and into "Yours for the Asking", QSB
(232 3/9 Westenhaver-QU) (Prath-FL)

Relays

6000 @ 1105 RM in EE - via Havana, Cuba
11700 @ 2205 RM in SS - via Plovdiv, Bulgaria
11735 @ 0050 RM in EE - via Plovdiv, Bulgaria
11770 @ 0050 RM in EE - via Plovdiv, Bulgaria
11850 @ 0003 RM in EE - via Havana, Cuba

No room for schedules or other information this month. Thanks to all
22 contributors, keep up the good work. 73! -Jason



Africa

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Hello again. How do you like this fancy new masthead, designed by our Utilities editor Paul Lannuier in his spare time? Where he finds any spare time between his job with Japan Radio Corporation and his own column is beyond me. Thanks, Paul!

Not as many loggings this month after last month's big turnout but we still have a good showing and, as usual, there are some fine DX catches as well as details of some interesting programs. We have four new contributors this month Charles Gaharan-LA, Orla Reese-DE, Lloyd Roupe-WV, and Val Scott-CA. Welcome aboard! If you didn't contribute this month, we'd all enjoy reading about what you've been listening to, so send in your logs! For those of us in this part of North America, we still have a couple of months before QRN from summer thunderstorms makes listening to the tropical bands a very iffy proposition. As you can see from the logs sent in over the past several months there are plenty of African stations using the higher bands. These are not as affected by electrical QRN as the tropical bands, so there are lots of opportunities for SWling all year which we can mix in with barbecues, the beach and baseball. Now for the loggings.

ALGERIA

- 7145 2008 RTV Algerienne: AA: M tx into Moslem chanting (433 3/13 Bishop-NY)
15160 0730 RTV Algerienne: FF/EE: Monologue in FF by W; mx; tx by M anncr & ID @ 0759; into "Int'l Report" in EE (455 3/8 Scott-CA) @ 1948 in EE w/LA style rhythmic mx; W gives ID & freq sked. Heard daily at 1900 giving freqs of 9510, 9610, 15215 & 17745. 15160 not mentioned! (544 3/2 Willers-Switzerland)
17745 1738 RTV Algerienne: FF: Middle Eastern mx (444 3/24 Reeves OR)

ANGLOLA

- 4820 0700 R. Er Da Huila: PP: Prog of African mx (333 3/16 Stringer NZ)

ASCENSION ISLAND

- 6005 0245 BBC: EE: Musical tribute to Sarah Vaughn (323 4/11 Johnson IL) @ 0306 in EE w/nx inc Belgium's most wanted criminal is flown in from Brazil; British prison rioting (433 4/11 Brown-IL)
11750 0027 BBC: EE: Financial report; report on situation in Lithuania (333 3/27 Brown-IL)
15190 1025 BBC: EE: "Assignment", looking at the Mexican economy; into "The Best of Radio Active" (233 3/15 Park-HI) @ 0919 in EE "The World Today" on US-Japan trade conflicts; transmission is beamed to southern SAmerica (322 3/2 Westenhaber-PQ)
15260 2320 BBC: EE: "Behind the Credits"- Interview w/Christopher Cox, abt the music business, ID (333 3/12 Brown-IL)
15400 1902 BBC: EE: Eric Clapton reveals his "Desert Island Disks" (544 4/7 Park-HI) @ 0617 in EE prg "From Our Correspondents" inc leaders in China try monetary policy to control inflation; report on Thatcher political situation (333 3/18 Brown IL)
21490t 1100 BBC: EE: Big Ben bells, M w/ ID anncr "...BBC London..." into freq information, nx (322 3/27 Park-HI)

BENIN

- 4870 2146 ORT de Benin: FF: W w/ID in short musical piece; W tx; then into African pop mx (433 3/9 Bishop-NY)

BOTSWANA

- 4830 0358 R. Botswana: VERN: Singing; tx by M followed by more vocal mx 3/10 Levison-PA)

BURKINA FASO

- 4815 0615 RTV Burkina: FF: M tx; into African mx; followed by nx inc W w/ments of Angola, USA. Fading by 0630; gone by 0645 (343 3/9 Thompson-CA) @ 2211 in FF w/M tx over African mx (211 3/8 Bishop-NY)

CAMEROON

4850 2137 CRTV: FF: W tx while African mx is being played (433 3/9 Bishop-NY) @ 2120 in FF w/fast African mx followed by 2 M in discussion (433 4/3 Willers-Switzerland)

CENTRAL AFRICAN REPUBLIC

5034.5 2149 RTV Centraficaine: FF: Soft African mx; tx by M; ID @ 2201 (443 3/30 Willers-Switzerland)

CHAD

4905 0440 Radiodiffusion Nationale de Chad: FF: Indiginous mx, M anncr. (333 3/29 Johnson-IL) @ 2157 in FF w/close down annmts by W followed by children singing into NA played by a band (444 3/9 Bishop-NY)

COTE d' IVOIRE

4940 2215 RTV Ivoirienne: FF: African Jazz mx w/M DJ (433 3/9 Bishop NY)

EGYPT

9475 0230 R. Cairo: EE: ID, Address information, Middle Eastern mx w/the usual poor modulation (333 4/11 Brown-IL)

9770 0501 R. Cairo: AA: Lively mx following VOA s/off; @ 0505 M into a chant; mx again @ 0509 (333 3/9 Thompson-CA)

12050 2001 R. Cairo: AA: M w/pres commentary & nx (444 3/15 Reese DE)

17595 1307 R. Cairo: EE: M tx; into AA by radio lang lesson; AA mx; this transmission beamed to SE Asia (pr-fr 3/18 Famularo-Japan)

17770 0012 R. Cairo: AA: M reads world nx; @ 0016 "Huna al-qahira" ID & into prog of W interviewing M. Weak modulation here and on //15220 (433 3/10 Westenhaver-PQ)

EQUATORIAL GUINEA

4925 2200 R. Nacional: SS: Closedown info by W; followed by very long NA after ment of Equatorial Guinea 2203* (433 3/16 Bishop-NY)

5004 2129 R. Nacional: SS: Afropop mx, ID @ 21:30; nx read by M. Fanatic reptition! (545 3/30 Willers-Switzerland) @ 0504 in unknown language w/African mx. Best in LSB to avoid WWVH QRM. (212 3/21 Park- HI)

GABON

9580 0550 Africa #1: FF: Lively mx, station ID by W anncr at 0600 (343 3/25 Scott-CA)

9645 0202 R. Japan: EE: Nx; Bank of Tokyo increases its discount rate one full per cent; Tokyo stocks down (333 3/14 Brown-IL)

11835 2310 R. Japan: EE: Nx; Fatal rocket attack in Kabul; triple transplant patient dies in USA (444 3/27 Brown-IL) @ 2318 in EE with E European political developments (434 3/26 Carson OK)

15475 2011 Africa #1: FF: Afro Pop mx, ID; play at 2030 called "Zombie" w/lots of weird sounds and strange characters; off abruptly @ 2057 (444 3/2 Willers-Switzerland)

21690 0538 R. Japan: SWEDISH: M & W anncrs giving JJ lang lesson (222 3/19 Park-HI)

21700 1505 R. Japan: EE: Nx of Japan and Asia; no //freqs heard (233) 3/9 Roupe-WV)

GHANA

3366 2200 GBC #2 EE: M anncr w/nx, football scores, TC & ID followed by commentary (343 3/12 Willers-Switzerland)

4915 2135 GBC #1 VERN: Long tx in vernacular, local mx; no ID or nx on the hour (343 3/14 Willers-Switzerland) @ 4915 M tx in local vernacular (433 3/9 Bishop-NY)

KENYA

11910 1658 TWR: EE: Closedown information in EE (322 3/10 Bishop-NY)

LIBERIA

3230 2050 ELWA: VERN: Local mx; long tx by M abt Pakistan; ID @ 2107 in EE "...ELWA...Liberia" (333 3/13 Willers-Switzerland)

4760 0457 ELWA: EE: Bible reading in EE, PO Box address given, ID into BBC World Nx (322 3/8 Bishop-NY)

6035 0605 VOA: EE: World nx (343/11 Johnson-IL)

9540 0600 VOA: EE: Nx inc former Romanian leader Ceascau's brother is to stand trial in Romania, ID (222 3/18 Brown-IL)

11785 0435 VOA: EE: "VOA Tuesday Morning" (422 3/27 Park-HI)

15600 2045 VOA: EE: Report on Earth Day, April 22 & the worldwide re-

sponse to it, ID, "Nightline Africa" (333 3/25 Brown-IL)

MADAGASCAR

6020 1700 R. Nederland: EE: "Media Network" w/report on the opening day of TV Marti; (222 3/29 Park-HI)
15335 1248 R. Nederland: INDONESIAN: M tx abt classical mx; ID @ 1252 and into interview prog when signal deteriorated (433 4/9 Westen-
haver-PQ)
15375 1645 R. Nederland: EE: "Newsline"; "Airtime Africa" on preserving & promoting traditional African mx; broadcast moves to 6020 on 3/25 (423 3/23 Park-HI)

MALI

4835.3 1856 RTV Malienne: EE: Blues mx, at end of nx "join us next Sunday at the same time" into vern (544 3/11 Willers-Switzerland) @ 2235 in FF M reads nx with musical jingles between nx items (322 3/8 Bishop-NY)
9770 0015 R. Beijing: EE: "Current Affairs" inc disc abt National Flag Protection Law (544 3/14 Fraser-MA)
11715 0301 R. Beijing: EE: World and National nx inc commentary on flag display & computer data base on agriculture (444 3/14 Levison PA) @ 0042 in EE w/mx from China inc vocal & Mongolian Choir mx, ID (433 3/17 Brown-IL) @ 0033 in EE w/prog of current af-fairs, pottery in China; ID (544 3/8 Cichorek-NJ)
15100 0143 R. Beijing: CANTONESE: Non-stop opera vocals; ID @ 0155 RB's closing theme mx; off but *0200 in CC. Must be Mali-putting out spurs +/- 64kHz like Mali's done before (444 3/28 Westenhaver-PQ) @ 0000 in EE w/nx inc report on Hong Kong and China, Corazon Aquino says she hopes for good relations with China, fire in New York kills 87 (444 3/26 Brown-IL)
15130 1636 R. Beijing: EE: CC mx prog, ID @ 1640 into "Listener's Let-
terbox" (333 3/18 Berri-CA)
17705 0006 R. Beijing: EE: World and National nx; ID @ 0015 into prog "Press Clippings" abt local nx stories--this freq and //15100 had slightly tinnier audio than did //17855 which is direct from Beijing (344 4/8 Westenhaver-PQ)

MAURITANIA

4845 0654 ORT Mauritanie: AA: W w/vocal music to just past 0700; M anncr ments "Mauritania" into nx, @ 0709 into local flute mx (242 3/14 Westenhaver-PQ) @ 2142 in FF/AA w/M tx in AA w/Arabic mx then ID (211 3/9 Bishop-NY)

MOROCCO

15205 2101 VOA: EE: Nx inc Armenian-Azerbaijani ethnic violence, ID, 87 people killed in New York fire (333 3/25 Brown-IL)

NAMIBIA

3290 2329 SWABC: EE/VERN: Faded in w/instl mx, M anncr (232 3/21 Reese DE)

NIGERIA

4990 2148 R. Nigeria: EE: African mx, no ID given (221 3/10 Bishop NY)
7255 0502 Voice of Nigeria: EE: Prog preview into "Reflections" (434 4/1 Carson-OK) @ 0615 in EE w/tx abt recycling in Nigeria (343 4/11 Johnson-IL) @ 0505 in EE w/ID prog notes and lively African mx (322 3/13 Brown-IL)

RWANDA

15270 2155 Deutsche Welle: GG DW IS heard under co-channel Taiwan, sked calls for *2200 into GG prog (Pr-unuseable 3/29 Famularo Japan)

SEYCHELLES

15420 1725 BBC: EE: "Focus on Africa" Quoting listener mail w/complaints abt the show and abt life in their home countries (323 3/21 Park-HI) @ 1309 in EE w/"24 Hours" hosted by Catharine Davis w/nx on yesterday's GDR elections (323 3/19 Westenhaver PQ) @ 1325 in EE w/nx abt stocks and currency; into rock mx (423 3/9 Gaharan-LA)

SOUTH AFRICA

3215 0415 R. Oranje: EE/AF: EZL mx w/M anncr (342 3/25 Reese-DE)
4880 0330 R. Five: EE: Ad for Gillette, ID weather--partly cloudy and cool, rock mx (222 3/18 Brown-IL) @ 1822 in EE: song from "The Strangler", much QRM de two unid numbers stations (333 3/11

Willers-Switzerland) @ 2150 in EE w/African pop mx (221 3/9 Bishop-NY) @ 2352 in EE w/mx from Van Morrison (322 4/9 Thornton-NJ)

7270 0429 R. RSA: EE/PP: ID in EE into PP prog inc nx de Namibia (434 3/21 Carson-OK)

9580 0200 R. RSA: EE: Nx and features (444 4/10 Johnson-IL)

9615 0203 R. RSA: EE: Disc abt AM radio (343 3/18 Neff-FL) @ 0200 w/nx inc film crew is halted from filming pictures at a rally, PO Box address given, listener's letters are read w/questions abt weather, mx in South Africa (433 3/24 Brown-IL)

9665 0437 R. Suid Africa: AF: Nice piano sonata; @ 0442 anmts by two different M anncrs; into hymn followed by religious tx (232 3/11 Westenhaver-PQ)

11835 0230 R. RSA: EE: Report on the teacher's strike in South Africa which has entered its third week (444 3/26 Brown-IL)

11900 1456 R. RSA: LOZI: EE/LOZI IDs, fanfare, 6 pips and M w/pre-view & nx (433 4/6 Park-HI)

11925 1551 R. RSA: EE: Disc of South African economics (222 4/6 Reeves-OR)

11935 0200 R. RSA: EE: World nx; reception vy poor (211 3/16 Stringer NZ)

15120 0215 R. RSA: EE: Mailbag show, mx inc sounds of Soweto, amateur radio spectrum inc feature on packet radio (444 4/8 Carson OK) @ 0230 in EE inc feature on literacy (333 3/17 Brown IL)

15365 0615 R. RSA: FF: Prog of African popular mx (343 4/10 Johnson-IL)

21535 1415 R. RSA: EE: "South African Magazine" w/disc w/head of South Africa's first Kosher winery (343 3/29 Westenhaver-PQ)

21590 1445 R. RSA: EE: TC, ID, "African Music Scene" nx @ 1500 with James Baker's visit and Namibia (354 3/23 Willers-Switzerland)

SWAZILAND

15140 1706 TWR: ?? African mx, M tx & more mx, ID @1715 children's choir, into W tx in unknown language (343 4/5 Thompson-CA)

UGANDA

4976 2054 R. Uganda: EE: Commentary, light mx, "you are listening to Radio Uganda" 2100* (343 3/8 Willers-Switzerland)

CLANDESTINES AND UNIDS

15100 0715 Iran's Flag of Freedom Radio: Farsi: M tx, Middle Eastern mx, 0730* Transmission is via Egypt. (fair 3/23 Famularo-Japan)

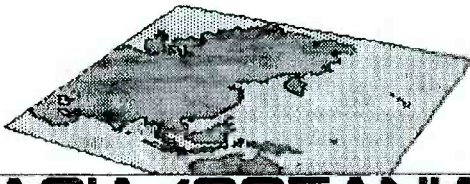
17745 1735 Voice of Palestine: AA: via Algeria, M tx abt Isreal and Palestine, many IDs "... Palestine" //7145, 11715 (444 3/21 Willers-Switzerland)

On April 9 it was announced by the South African Broadcasting Corporation that major cuts to R. RSA's external services will begin at the end of April including the dismissal of 21 of 105 employees and the elimination of all broadcasts beamed outside the African continent. German, Dutch, Portuguese and Brazilian language broadcasts will be eliminated entirely. Some transmitters will be redirected and certain freqs will be eliminated. Budget cuts are the stated reasons Also mentioned was the idea that satellite broadcasts make shortwave transmissions obsolete. It seems ironic that after South Africa has been a pariah among nations for so long because of its apartheid policy that now, just when South Africa seems on the verge of making major policy changes in this area that they have chosen to silence its external voice, at least outside of the African Continent.

Maybe they have forgotten one important point. While satellite broadcasts may get information to outside news gathering agencies more reliably than shortwave broadcasting does, it may not be in the best interests of any nation to allow outside news organizations the opportunity to select and edit that nation's interpretation of news and events. They may well find the outside agency's point of view is focused very differently than that nation would prefer.

I hope the foregoing is not seen by any SPEDXer as support for South African policies, but rather as support for international radio. The Bokmakierie bird interval signal may become a rare catch indeed, at least here in North America. If you hear R. RSA, please send along your logs so we can see how the signal for transmissions after April 30 propogate. (Thanks Bill Westenhaver and Tim Johnson for tip)

Today--April 20--I heard on the radio the news that in Nigeria a coup attempt failed, but that before it ended the rebels took over the state radio station (the newscast didn't identify the station any better than that) and announced a new government. I wonder if any DXers heard that transmission! Until next month remember to have fun with your radio!



ASIA/OCEANIA

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

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

There's another busy May column ahead of us, with close to three dozen contributors of loggings and information. In addition to thanking you all for your help, I'd like to offer special birthday wishes to my neighbour in these pages, Don Thornton. May you have many more!

AUSTRALIA

VL8A Alice Springs VL8K Katherine
VLQ Brisbane Radio Australia

2310 1123 VL8A: EE: Px of mx; better than //2325 (VL8T) (344 3/16 Stringer-NZ)
4835 0810 VL8A: EE: Sports px w/mx bridges; //4910 (VL8T) was SIO 322 (333 3/16 Stringer-NZ)
5025 2133 VL8K: EE: Nx w/rpt on cricket match; "This is ABC News" @ 2136 (333 3/17 Willers-SW)
9660 1601 VLQ9: EE: Lcl weather forecast; FC (222 3/21 Reeves-OR)
RA LOGGED AS FOLLOWS: 9580 in EE by Fraser-MA, Neff-FL; 11930 (via Branion) in EE by Carson-OK; 15160 in EE by Cichorek-NJ and ed.; 15320 in EE by Carson-OK; 15560nf in EE by Park-HI; 17750 in EE by Brown-IL; 17795 in EE by Neff-FL, Scott-CA; 21525 in EE by Russell-MI; 21740 in EE by Langlois-FL; 21775 in EE by Russell-MI; 21825 in EE by Famularo-JP, Park-HI.

BANGLADESH

Radio Bangladesh

15040nf 1255 RB: EE: Subcontinent mx; ID amnt; off 1300* (242 3/17 Roupe-WV) (Nice catch, Lloyd, and welcome to the column!-ed.)

CAMBODIA

Voice of the People of Cambodia

4909.7a 1402 VOPC: CAMBODIAN: HS w/exotic flute/vcl mx; W tlk ment Hanoi/Cambodia et al.; more singing/mx; heavy QRM le ute on high side (poor 3/28 Famularo-JP)

CHINA

Central People's Bcst Stn SRI relay Radio Beijing

2340 1120 FUJIAN PBS: CC: W tlks (454 3/23 Kunkel-CA) @ 1133 w/W tlks (222 3/16 Stringer-NZ)
2445 1110 JIANGXI PBS: CC: M/W tlks; sounded like format of CPBS-1 service (343 3/23 Kunkel-CA)
3220 2102 (t)CPBS-1: CC: CC tlk; orchestral/classic mx; no positive ID (342 3/17 Willers-SW)
3950 1512 (t)QINGHAI PBS: CANTONESE?: M/W w/JJ lessons (of all things!); seemed //4940 (322 3/13 Park-HI)
4865 1440 GANSU PBS: CC: w tlks; mx (222 3/25 Reeves-OR)
4990 1414 HUNAN PBS: CC: (p) Comedy show w/2M (343 3/25 Reeves-OR)
5020 1424 JIANGXI PBS: CC: Mx w/M and W ancers (242 3/25 Reeves-OR)
6933 2233 RB: SS: Px of trad CC mx; W ID @ 2237 (322 3/31 ed.)
9535 1147 RB: CC: W CC classical vcls w/M ancr; ID/theme mx @ 1155* (333 3/30 Cichorek-NJ)
9920 2046 RB: EE: Tlk on primary education/illiteracy of women in 3rd world (444 3/16 Leader-IR)
11000 1552 (t)TAIWAN-2: CC: M world nx to 1555; distorted inst mx; "Ode to Joy" @ 1600; mix of M/W tlk and mx; many ments Taiwan but no definite ID (343 4/5 Thompson-CA)
11600 1305 RB: EE: M nx; cmty; mx; //11660 (232 3/31 Prath-FL)
11695 1310 SRI: EE: SRI IS; EE frq amnt ment this frq for SEAsia (232 4/3 Russell-MI)
17855 0054 RB: EE: Violin mx; closing ID/frqs (322 4/1 Thornton-NJ) @ 1150 w/tlk abt tourism in China; closing ID/frqs (333 4/1 Cichorek-NJ) @ 1250 w/"Idioms and Their Stories" (333 3/28 ed.) (This frq replaces 9665 at these times.-ed.)

GUAMKTWR KSDA

- 11650 1500 KTWR: EE: IS; "KTWR Agana Guam" ID; into rlg px abt Romans, chapter 6 (242 4/3 Russell-MI) @ 1600 w/ID and rlg mx (444 4/6 Reeves-OR) @ 1623 w/Bible reading; tlk abt Jerusalem; 1637* (322 3/10 Bishop-NY)
- 11805 0930 KTWR: EE: "Children's Bible Hour"; rlg mx; ID @ 1000 (423 3/24 Scott-CA) (welcome to the column, Val!-ed.) @ 1000 w/"Pacific DX Magazine"; strong het (434 3/16 Stringer-NZ)
- 11980 1640 KSDA: EE: "DX Asiawaves" px (322 3/10 Bishop-NY)
- 15055nf 2237 KTWR: IN: Long mix of M/W tlks and Christian mx; finally ID'd by KTWR IS played once at 2327 sign-off (333 4/6 ed.)
- 15485 1145 KTWR: CC: EE lesson; CC pop-style song; @ 1156 closing anmt; 1xIS; 1157* (343 3/29 ed.)

HONG KONGBBC relay

- 17830 0030 BBC: EE: EE lesson abt Mr. Lovejoy fixing up his house (242 3/8 Wright-NF)

INDIAAll India Radio

- 7412 2204 AIR: EE: M nx; ID @ 2205 (444 3/14 Karcheski-MA) @ 2205 w/nx; cmty; sports; //11620 (343 3/24 Prath-FL)
- 11620 2138 AIR: EE: Listeners' letters; ID; Indian ballads; preview of Tomorrow's px; nx @ 2200 (544 3/24 Wright-NF)
- 15020 1409 AIR: SINHALA: Subcontinent mx/songs; AIR ID @ 1428...1500* (Fair 3/17 Famularo-JP) @ 1450 w/subcont mx; 1500*; RTTY QRM; //11620 (322 3/17 Roupe-WV)
- 15110 1007 AIR: EE: Nx; ID; cmty on India's foreign relations (333 3/18 Neff-FL) @ 0055 w/W lcl classical vcls; into nx (222 3/22 Thornton-NJ) @ 0050 w/filmi mx; @ 0055 cmty on Sri Lanka; @ 0059 brief ID and W nx; signal deteriorating (333 3/31 ed.)
- 15365 1132 AIR: THAI: W tlk ending w/ment AIR; filmi mx cut; several Thai-style pop songs; @ 1159 W "Thini All India Radio"/closing anmt; 1200* (343 4/12 ed.)

INDONESIARadio Republik Indonesia

- 3223 1320 (t)RRI MATARAM: IN: M ancr w/typical Indopops; no ID hrd (353 3/31 Kunkel-CA)
- 3945 1400 RRI DENPASAR: IN: Light mx; then into National nx (353 3/31 Kunkel-CA)
- 4607.4 ??? RRI SERUI: IN: W Indo nx; IN lagu (songs); M ID @ 1001 (454 4/8 Sparks-CA)
- 4874.6 1005 RRI SORONG: IN: Lcl pop mx; M/W talking w/a tropical studio bird chirping away in the background (!); tremendous signal (555 4/8 Sparks-CA)
- 5055.3 0910 RRI NABIRE: IN: AA-style vocals; ID @ 0930; some CW QRM (232 4/8 Sparks-CA) (Welcome, Bill; nice loggings!-ed.)

IRANVoice of the Islamic Republic of Iran

- 15084 0550 VOIRI: SS: Px of mx w/M ancr (353 4/6 Johnson-IL) @ 1643 in (p)FARSI w/M/W tlks ment Tehran; @ 1700 Mideast mx and W brief tlk to 1702* (353 4/5 Thompson-CA)

IRAQRadio Baghdad

- 9515 0200 RB: EE: Exotic mx; ID (333 4/10 Johnson-IL) (Good logging, Tlm! This one's been very hard to catch lately!-ed.)
- 11720 2219 RB: EE: Tlk abt "Geology for Arabs" course at University of Baghdad; ID @ 2221 (343 4/1 Cichorek-NJ) (Is that something about "between Iraq and a hard place"?-hi!-ed.)

ISRAELKol Israel

- 9435 0007 KI: EE: Tlk abt forming new coalition government; some QRM de VO Greece (544 3/18 Leader-IR) @ 0002 w/nx of worries of Jews living on Golan Heights (433 3/20 Bishop-NY) @ 0105 w/"Spotlight" on forming new government (433 3/24 Brown-IL)
- 11605 0018 KI: EE: Nx (322 4/2 Bronowicz-MO) @ 0010 w/ID; tlk abt museums in Israel (444 3/9 Langlois-FL) (Brown-IL) (Carson-OK) (Willers-SW)
- 15640 2132 KI: EE: Nx of Iraqi boasts abt chemical weapons (444 4/3 Cichorek-NJ) @ 0117 w/px describing colours of Israeli desert/rocks/dirt/sand (455 3/9 Kunkel-CA)

(I hope that everyone's noticed that all bcsts from Israel are one hour earlier, now that they're on Summer Time. They'll be going back onto Standard Time earlier than most countries, on 25 August.-ed.)

JAPANNHK Radio Japan

3970 1215 (p)NHK MATSUYAMA: JJ: What seemed to be regular NHK px; in AM mode instead of SSB; no ID but same NHK format as other stations (454 3/23 Kunkel-CA) (Can any of our Japanese members add any info for this one?-ed.)

9695 1730 RJ: EE: Tlk abt brain drain from Hong Kong (433 4/4 Valentine-CA)

11865 1413 RJ: EE: Wx; @ 1414 "Japan Scene"; then "Hello from Tokyo" w/ listeners' letters (434 3/25 Carson-OK) @ 1548 w/"Music Mix" show; then stn address (555 4/6 Reeves-OR)

15195 0510 RJ: EE: Nx (443 4/6 Johnson-IL) @ 0540 w/tlk abt RJ px of The 1950's (343 3/18 Roupe-WV)

17755 0112 RJ: EE: Nx/stock market; ID @ 0115 (343 3/8 Cichorek-NJ)

17825 0500 RJ: EE: RJ nx; anmt that normal EE px following would be pre-empted for JJ sports event (333 4/4 Scott-CA)

21500 0805 RJ: JJ: W nx; @ 0810 coverage of day 3 of Osaka Spring Grand Sumo Tournament; //15390, 17765 (444 3/13 Park-HI)

Yukimasa Matsushita forwards the latest sked for RFI relays via Japan: In CC at 0930-1030 and 1200-1300 on 15215 kHz; in FF at 1030-1200 on 15215, 17705 kHz, at 2300-0030 on 17710 kHz. Thanks for the information!

JORDANRadio Jordan

9560 2356 RJ: AA: Mideast vcl; 2 M in dialogue; "Huna Amman" @ 0000 (544 3/17 Cichorek-NJ) @ 2247 w/AA mx w/W tlk between cuts; then tlc abt King Hussein (444 3/24 Wright-NF)

KIRIBATIRadio Kiribati

14917.7 0650 RK: EE/I-KIRIBATI: "world of Science" px de DW; W in vern tlc w/ment "world nx" over mx; back on since 2/26 (323/121 3/3 Park-HI) @ 0635 w/EE tlc abt Save the Children Foundation (RA transcription px?) (252 4/6 Johnson-IL) (Very nice!!-ed)

KOREA, D. P. R.Korean Central Bcst Stn Radio Pyongyang

2850 1129 KCBS: KK: Light heroic opera w/W host; then M begins "barking" in strident KK (454 3/23 Kunkel-CA)

6400 2120 RP: KK: Soft organ mx; long M/W tlc w/some ments Pyongyang; //76250 (344 3/2 Willers-SW)

6560 1342 RP: JJ: M tlc; mx bridge; M ID and into patriotic mx (454 4/4 Berri-CA)

9977 1120 RP: EE: Typical praise of Kim Il-Sung (343 3/24 Roupe-WV)

15115 0022 RP: EE: Cmty on national heritage; ID (333 3/17 Brown-IL) @ 0010 w/nx of health care in Korea; song "The Village We Live In" (433 4/8 Carson-OK)

KOREA, REPUBLIC OFKCI relay Radio Korea

6095 1335 KCI: JJ: M/w tlc in JJ (444 4/2 Reeves-OR)

6150 1313 KCI: CC: M/w tlc in CC (333 4/2 Reeves-OR)

9515 1601 RK: RR: Theme mx; M ID "Govorit R. Korea..." /px preview; nx (433 3/28 Park-HI)

9700 *1330 KCI: JJ: M EE/W FF/W JJ ID's w/opening mx; px "Canada Today"; //76095 (via RK); //5220, 9535, 11795 via China (555 4/5 Matsushita-JP)

11905 1550 RK: ??: RK IS heard but this isn't listed in sked; any ideas?? (222 4/6 Reeves-OR) (Does anyone out there have a current RK sked? I checked at the Korean Consulate in Montreal, but they were no help.-ed.)

15575 1643 RK: AA: IS and "...idha'atu KBS...min Seoul..."; @ 1645 (p) sked/nx (433 3/23 Park-HI) (logged in EE by Brown-IL, Willers-SW and Cichorek-NJ)

KUWAITRadio Kuwait

13610 2040 RK: EE: Jazz mx px; ID (443 3/20 Neff-FL)

13620 2002 RK: AA: In-studio discussion w/input from M on phone; AA vcl; @ 2012 W anmt w/ID; //15495, 15505 (444 3/28 ed.)

15345 0504 RK: EE: Nx; pop/rock mx; "Kuwait 1989" px (444 3/4 Carson-OK)

21675 2245 RK: AA: Fine mix of classical/AA mx and poetry; hrd past 0000 (444 3/24 Janusz-NJ) @ 1417 w/radio play (fair 3/25 Famularo)

LEBANONVoice of Hope Voice of Lebanon

6280.3 0415 (t)VOH: ??: Continuous soft mx; tentative, but what else could it be? (222 3/29 Johnson-IL)

6549.5 2255 VOL: AA: Mideast mx; ID @ 2315 and into nx; poor signal (232 3/24 Roupe-WV)

MARIANA ISLANDSKFBS KHBI

9465 1526 KFBS: RR: RR/slow EE addresses for Russian Radio Bible Institute in San Francisco; ID ment "KFBS" (222 3/13 Park-HI)
 9530 1400 KHBI: EE: ID; mx; interview w/Sao Paulo Christian (242 3/11 Wright-NF)
 11650 1253 KFBS: RR: Christian message ment Czechoslovakia; ID "KFBS Saipan" @ 1300; hymns (353 3/24 Wright-NF)
 15285 1315 KHBI: EE: "One Norway Street" px (434 3/16 Stringer-NZ)
 17780 0540 KHBI: EE: "Letterbox"; unID co-chan QRM (333 3/16 Stringer-NZ)

MONGOLIARadio Ulan Bator

4850 1555 RUB: MONGOLIAN: Oriental mx; W tlk (sked?); anthem; 1600*; //74996 (fr-gd) (fair 3/20 Famularo-JP)
 4995.0 1553 RUB: MONGOLIAN: M/w tlk w/weird modulation (overmod yet clipped); NA @ 1557; //7263.6 (222 3/13 Park-HI)
 12015 0909 RUB: EE: Chimes; @ 0910 M ID/s/on anmt; then M nx (222 3/24 Scott-CA)

NEW CALEDONIARFO Nouméa

3355 1300 RFO: ??: M tlking, but not in EE (322 3/16 Stringer-NZ) (Was it in FF, Paul?-ed.)
 7170 0926 RFO: FF: M/w discussion; EZL song; 2 M discussion (fair 3/16 Famularo-JP)

NEW ZEALAND

Lots of logs of RNZI on 17680, from: Brown-IL; Carson-OK; Cichorek-NJ; Famularo-JP; Johnson-IL; Neff-FL; Roupe-WV; Seymour-NC; Willers-SW; ed. According to info from Paul Stringer, RNZI's new 100 kW xmtr broke down on 3/30; they've been using an old 7½ kW as a spare, but the new one should be fixed by now.

PAKISTANRadio Pakistan

13665 1614 RP: EE: End of M nx; "typewriter song"; @ 1615 W ID/frqs; then cmtly on India; //21480, 21740.1 (222 3/3 Cichorek-NJ) hrd on 13667.8 @ 1613 w/usual theme mx; into nx @ 1615 w/w ID (343 3/31 Kunkel-CA)

PAPUA NEW GUINEA

3275 1222 R. SOUTH HIGHLANDS: EE/PD: Mx (some EE); M tlk w/ID/TC (455 3/16 Stringer-NZ)
 3325 1140 R. NORTH SOLOMONS: PD: M tlk abt PNG; ID @ 1200 (252 3/23 Kunkel-CA)
 3365 1306 R. MILNE BAY: PD: M nx; @ 1311 TC and into mx (444 3/16 Stringer-NZ) @ 1150 w/PNG version of steel drums; M tlk ment Alotau and back to mx (454 3/23 Kunkel-CA)
 3385 0933 R. EAST NEW BRITAIN: PD: W nx; ID/TC; great tribal choral chanting and drums (fair 3/17 Famularo-JP)

PHILIPPINESRadio Veritas Asia VOA relay

9520 1052 RVA: CC: W tlk; M closing anmt w/tolling bell before/after; EE ID/anmt that VV px on 11790 de *1100; 1xIS and off 1055* (232 4/9 ed.) (No word yet from RVA on why EE was dropped.-ed.)
 9770 2240 VOA: EE: "Words and Their Stories" (222 3/17 Prath-FL)
 15150 1720 VOA: SWAHILI: M tlk; mx bridge; VOA African nx w/lots on Sافر topics (443 4/5 Thompson-CA)
 15290 2311 VOA: EE: Rpts on GDR elections/Lithuania (222 3/18 Brown-IL)
 15425 1307 VOA: EE: Nx; "Critics Choice" (343 3/11 Wright-NF)

SAUDI ARABIABest Service of the Kingdom of Saudi Arabia

9885 2215 BSKSA: AA: Px of AA mx; @ 2220 M ID/brief tlk; back to mx (433 3/17 Prath-FL)
 21505 1333 BSKSA: AA: Radio play; @ 1342 ID and into one M interviewing another (433 4/7 ed.)

SINGAPOREBBC WS relay

11750 1543 BBC: EE: "Music Review" w/LatAm mx (444 4/6 Reeves-OR)
 15360 1109 BBC: EE: "From Our Own Correspondent"; 1129* (232 3/18 Landau-NJ)

SOLOMON ISLANDSSolomon Islands Best Corp

5020 0730 SIBC: EE: Nx; ID; ads (141 4/8 Johnson-IL) @ 0750 w/rock mx; ads; M DJ chat; nx @ 0800 (343 3/31 Thompson-CA) @ 1022 w/much mx and brief PD tlk (444 3/3 Stringer-NZ)
 9545 0730 SIBC: EE: W ID/ads; M nx...abrupt 0746* (433 3/31 Thompson-CA) @ 0735 w/nx/severe tropical depression warning (423 3/17 Scott)
 32

SRI LANKA SLBC logged in EE on 15425 by Cichorek-NJ; DW relay logged in GG on 21560 by Prath-FL; VOA relay logged in EE on 15250 by Brown-IL, on 15395 by Kunkel-CA.

SYRIA Radio Damascus logged in EE on 12085 by Brown-IL, Cichorek-NJ, Morton-NY, Neff-FL, Prath-FL, Roupe-WV, Thornton-NJ; on 15095 by Brown-IL.

THAILAND Radio Thailand

9655 2303 RT: EE: W "You're listening to R. Thailand"; M px line-up/frq amnt; heavy QRM (322 3/3 Willers-SW)

TONGA Tonga Best Comm

5030 0700 TBC: EE: TC for 8:00; "Radio Tonga news" followed by RA nx relay (151 3/19 Hanson-WA) @ 0700 w/RA nx; very noisy sig (322 3/3 Stringer-NZ) @ 0550 w/rlg px "The World Tomorrow" w/address P.O. Box 127, Nuku'alofa, Tonga; then choral mx and tlk in TONGAN (353 4/8 Sparks-CA) (Bill Sparks also was able to hear them to 1003* on 3/23.) (Thanks, guys, for all these great loggings!)

TURKEY Voice of Turkey

9445 2200 VOT: EE: Nx; Turkish press review (352 4/6 Johnson-IL) @ 2332 w/travelogue of Anatolia; jamming on frq?? (533 3/18 Wright-NF) (Phil's logging was made before they moved bcsts one hour earlier for Summer Time.-ed.)
17880 2217 VOT: EE: "International Organizations and Turkey"; ID @ 2221; 779445 was SIO 444 (343 4/6 ed.)

UNITED ARAB EMIRATES VO UAE Abu Dhabi logged as follows: 9600 in EE by Brown-IL, Cichorek-NJ; 13605 in EE by Brown-IL, Cichorek-NJ, Willers-SW; 21725 in AA by Kunkel-CA. (Oops! Forgot 11985 in AA by Wright-NF!)
UAE R. Dubai logged as follows: 17890 in EE by Carson-OK; 21605 in AA by Park-HI and in EE by Carson-OK, Gaharan-LA (welcome!-ed.), Reeves-OR, Russell-MI.

VIETNAM Voice of Vietnam

9731.4 1420 VOV: (1)LAO: M song w/lcl string accompaniment; w soft vcl; W brief amnt; then OC to *1429 in Cantonese (pr-fr 3/18 Famularo-JP)
15009.4 0054 VOV: EE: Tlk abt medical services in Ho Chi Minh City (333 4/3 Thornton-NJ) @ 1240 w/nx; cmt; on Mongolian reforms (242 3/17 Roupe-WV) on 15009.5 @ 1852 in FF (333 3/27 Park-HI) also logged on 15010 in EE by Cichorek-NJ, Karcheski-MA, Neff-FL, Prath-FL.

CLANDESTINE

3480 1406 VO NATIONAL SALVATION: KK: M tlks; heavy South Korean jamming; 7/4120 was also nearly unintelligible (211 3/4 Reeves-OR)
15100 1640 IRAN'S FLAG OF FREEDOM RADIO: FARSI: Long M tlk; frq amnt @ 1700 (344 3/23 Willers-SW) (Steven also furnishes a QSL address for the station: Derafsh, 20 rue de Condorcet, F-75009 Paris, FRANCE.-ed.)

Thanks to information from Yukimasa Matsushita and Koji Yamada, both in Japan, it's possible to identify last month's unID CC stn on 15124.5 kHz. It's a new SW relay from Taiwan, rebroadcasting BCC's FM 1st Network to the Mainland 2100-1700 UTC, on nominal 15125 kHz. Matsushita notes that this relay began in February. Yamada also notes that jamming to the signal, on an irregular basis, began on April 7; he also notes that it's received in Tokyo with excellent signals during the day and good signals at night. Thank you both for your helpful and prompt information!

Additionally, Koji Yamada notes that there is heavy jamming on all CC xmsns from the BBC and VOA, but that other CC services from, for example, RJ, RFI, RCI, RM, are not being jammed.

Thanks to everyone who contributed to this month's column, and a special wish of thanks to all this month's new contributors; I hope that you'll all be back next month. One last word to those who've written letters —yes, I do answer my mail, but sometimes it takes a little while to get it done. Patience is sometimes called for; remember, "A watched mailman never boils."-hi!

73 — TSIM

QSL REPORT



Ray Forsgren 4856 Inlet Drive Chippewa Falls, WI 54729

AFRICA

- ALGERIA RTV Algerienne: 7145 f/d Carpet cd in 34 ds. (Greer-NC). 15215 f/d cd in 360 ds for 2 ircs. (Reese-DE).
- AZORES R Club de Angra: 13584 f/d-Airport cd in 39 ds for ms. (Evans-TN). f/d Windmills cd in 39 ds for an irc. (Greer-NC).
- DJIBOUTI RTV de Djibouti: 4780 f/d Logo cd w/ sticker in 36 ds for a Tape, FF rpt & \$1. (Willers-SW). f/d cd in 55 ds for a FF rpt & ms. (Evans-TN). p/d cd in 86 ds for a FF rpt & ms. (Karcheski-MA).
- LIBERIA VoA Relay: 17870 f/d cd in 39 ds. (Greer-NC).
- MALI R Bleijing Relay: 9770 & 11715 f/d Horsr cd in 12 ds. (Johnson-ID). 11715 f/d Elephant cd in 65 ds for an irc. (Reese-DE).
- NIGER ORTN: 5020 f/d ltr in 38 ds for a FF rpt & 2 ircs. (Reese-DE).
- SEYCHELLES FEBA: 9590 f/d Beach cd w/ ltr & stickers in 52 ds for \$1. (Willers-SW).
- SOUTH AFRICA Radio RSA: 9680 f/d cd in 39 ds. (Greer-NC). 15120 f/d Game Park cd in 47 ds. (Brown-IL). Radio 5: 4880 f/d SABC cd in 47 ds. (Greer-NC).
- TANZANIA R Tanzania: 9685 p/d Map cd in 65 ds after 2nd f-up for ms (Evans-TN).

ASIA

- BANGLADESH R Bangladesh: 11510 n/d Village cd in 298 ds. (Willers-SW)
- CHINA RCI Relay: 11955 f/d DIY cd in 20 ds. (Ashimori-JN).
- INDIA AIR: 9910 f/d Bombay cd in 48 ds. (Greer-NC). 11620 f/d Basilica cd in 59 ds. (Gerstner-NY). 11810 f/d Temple cd w/ sticker in 44 ds. (Leader-IR).
- ISRAEL 9435 f/d Logo cd in 43 ds. (Bishop-NY). 11605 f/d cd in 31 ds. (Brown-IL). f/d cd in 37 ds. (Gerstner-NY). f/d cd in 46 ds. (Greer-NC).
- JAPAN R Japan: 17825 n/d Clay Figures cd in 43 ds. (Greer-NC).
- JORDAN R Jordan: 9560 f/d Logo cd in 68 ds for 3 ircs. (Johnson-ID).
- PHILIPPINES VoA Relay: 17735 f/d cd in 20 ds. (Greer-NC).
- SAUDI ARABIA BSKSA: 21530 f/d cd w/ sked 8 ltr in 69 ds registered. V/S Sullman A Al Samnan. (Matsushita-JN).
- SOUTH KOREA R Korea: 15575 f/d Staff cd in 29 ds. (Greer-NC).
- TAIWAN VoFC: 15345 f/d Flower Pot cd in 32 ds. (Greer-NC).
- TURKEY VoT: 9445 f/d Copper Bowl cd in 40 ds. (Brown-IL). f/d Vase cd in 48 ds. (Greer-NC). f/d cd w/ sked & stickers in 80 ds. (Willers-SW). Turkish Police Radio: 7370 f/d cd w/ info in 38 ds for ms. (George-MA).
- U.A.E. VoUAE: 13605 f/d folder cd in 32 ds for \$2 & 2 ircs. V/S Ahmed A Shouly. (Carson-OK). R Dubai: 15435 f/d Map cd in 38 ds. (Greer-NC).

EUROPE

- ALBANIA R Tirana: 9760 f/d Ruins cd w/ pin, map & info in 89 ds. (NC-Greer).
- AUSTRIA RAI: 9870 f/d cd w/ info in 35 ds. (Greer-NC). 9875 f/d cd in 41 ds. (Brown-IL). 13730 f/d cd in 22 ds. (Bishop-NY). Schulungssender: 5035 p/d Logo cd w/ sticker in 46 ds. (Willers-SW).
- BELGIUM BRT: 9925 f/d Gent cd w/ stickers in 28 ds for 2 ircs. (OK-Carson). f/d Church cd in 82 ds. (Gerstner-NY). f/d House cd in 82 ds. (Greer-NC).
- BULGARIA R Sofia: 7115 n/d ltr in 53 ds (this was for a rpt for a Greek b'cast- they said to get a QSL to send a Rpt in Greek!). (Greer-NC). 15330 f/d Spring cd in 75 ds for 2 ircs. (Hunt-FL).
- CZECHOSLOVAKIA R Prague: 5930 f/d Castle cd in 84 ds for 3 ircs. (NC-Greer). 5930 & 7345 f/d Chateau cd in 68 ds for 2 ircs. (Carson-OK). 7345 f/d cd in 26 ds. (Landau-NJ). f/d cd w/ map in 38 ds for an irc. (Carson-OK). f/d cd in 43 ds. (Willers-SW).

FRANCE RFI: 3965 f/d Aerial Photo cd in 34 ds. (Greer-NC).
G.D.R. RBI: 9730 f/d Telegraph cd in 32 ds for an irc. (Carson-OK).
 13610 f/d Rathaus cd w/ calendar & sked in 41 ds for an irc.
 (Hunt-FL).
G.F.R. DW: 6085 n/d cd in 37 ds for an irc. (Carson-OK). 9735 f/d cd
 in 102 ds for 2 ircs. (Hunt-FL). Bayerischer Rundfunk: 6085 p/d
 Clouds cd in 43 ds for an irc. (Karcheski-MA).
GREECE VoG: 9420 f/d Monasteries cd in 67 ds. (Greer-NC). 11595 f/d
 cd in 22 ds for 2 ircs. (Hunt-FL).
HUNGARY R Budapest: 9835 f/d Heviz cd in 30 ds for an irc. (Hunt-FL).
 f/d Danube cd in 30 ds. (Robinson-TN).
ICELAND ISBS: 13855 f/d Crater cd in 29 ds for an irc. (Halloran-MA).
 13856 & 15767 f/d cd in 30 ds. (Greer-NC).
ITALY AWR: 7230 f/d Logo/Stickers cd in 35 ds for \$1. (Landau-NJ).
LUXEMBOURG R Luxembourg: 15350 f/d Towers cd in 16 ds for 2 ircs.
 (Hunt-FL).
MONACO TWR: 9480 f/d Map cd in 22 ds. (Greer-NC). 7355 f/d cd w/ sked
 in 1 mo. (Matsushita-JN).
NETHERLANDS 15560 f/d Market cd in 31 ds. (Greer-NC).
NORWAY RNI: 9565 f/d Ardal cd in 18 ds. (Greer-NC).
PORTUGAL RDP: 9600 f/d Ship cd in 21 ds for an irc. (Halloran-MA).
 9680 f/d Ltr w/ calendar & sked in 29 ds for 2 ircs. V/S Carminda
 Dias da Silva. (Hunt-FL). 11840 f/d cd in 20 ds. (Greer-NC). IBRA:
 11700 f/d cd w/ pennant & sked in 2 mo. (Matsushita-JN).
SPAIN REE: 9630 f/d Madrid cd in 44 ds. (Greer-NC). f/d cd w/ pennant
 in 69 ds for an irc. (Halloran-MA). 11790 f/d cd w/ sked, flag &
 sticker in 49 ds. (Willers-SW). f/d Cuchillero cd w/ T-shirt, pennant
 & stickers in 67 ds. (Leader-IR).
SWEDEN RSI: 11705 n/d(!) Stockholm cd in 22 ds. (Brown-IL). f/d cd in
 28 ds. (Greer-NC).
SWITZERLAND SRI: 9885 f/d St. Gall cd in 29 ds. (Greer-NC). 17730 f/d
 cd w/ sked in 21 ds. (Stringer-NZ). ICRC: 9885 f/d Logo cd in 30 ds
 for 2 ircs. (Johnson-ID). 12035 f/d cd in 53 ds for 2 ircs. (Greer-NC).
VATICAN CITY R Vaticana: 11725 f/d Pius XI cd in 69 ds. (Brown-IL).
 U.S.S.R.
 R Kiev: 7400 f/d cds in 88 ds w/ stamps & calendar for an irc. (OK-
 Carson),
 R Moscow: 1880-Moscow; 12050-Khabarovsk f/d cds w/ stamps in 78 ds.
 (Carson-OK). 15305 -Voronezh f/d cd in 63 ds. (Reese-DE). 4795 f/d
 cd in 64 ds for an irc. (Halloran-MA).
 R Tallinn: 5925 f/d River cd w/ sked in 107 ds for ms. (George-MA).
 R Vilnius: 9610 & 11675 3 f/d cds in 148 ds for ms. (Carson-OK).
 NORTH AMERICA
ALASKA KNLS: 7335 f/d Building cd in 23 ds for ms. (Greer-NC). 7355
 f/d cd w/ pennant in 64 ds. (Stringer-NZ).
ANTIGUA DW Relay: 6040 n/d cd in 87 ds. (Karcheski-MA).
CANADA RCI: 9635 f/d cd in 13 ds. (McCants-AL). CFCX: 6005 p/d collage
 cd in 14 ds. (Greer-NC). R Japan Relay: 5960 n/d Haniwa cd w/ goodies
 in 40 ds. (Bishop-NY).
CUBA R Habana: 5965 f/d Cienfuegos cd w/ sked in 136 ds for an EE/SS
 rpt & 2 ircs. (Hunt-FL).
COSTA RICA R Reloj: 4832 f/d Logo cd in 19 ds for \$1. V/S Francisco
 Barabona. (Greer-NC). R Impacto: 5030 f/d ltr w/ pennant & sticker
 in 91 ds for a tri rpt & 2 ircs. V/S Hector Reguena. (Hunt-FL).
 TIFC: 5055 f/d cd in 39 ds. (Greer-NC). R Lira: 9725 f/d ltr in 39
 ds for an irc. V/S David Gregory. (Greer-NC). UN Radio via RFPI:
 21566 f/d cd w/ sked & sticker in 10 ds. (Weber-OH).
GUATEMALA La Voz de Atitlan: 2390 f/d Certificado in 60 ds for a SS
 rpt & \$1. V/S Juan Ajtzip Alvarado. (Huffaker-MX). R Buenas Nuevas:
 4800 f/d Quetzal cd in 46 ds for \$1. V/S Israel Rodas M. (Greer-NC).
 R Tezulutlan: 4835 f/d Procession cd in 27 ds for an EE/SS rpt &
 2 ircs. (Hunt-FL). R Kekchi: 4845 p/d ltr w/ pennant in 80 ds for
 a SS rpt & \$1. V/S Gilberto Sun Xicol. (Huffaker-MX).
HONDURAS HRVC: 4820 f/d cd w/ pennant in 28 ds for 2 ircs. (Greer-NC).
MONTSERRAT DW Relay: 9545 n/d cd in 79 ds. Requested sending a SAE.
 (Greer-NC).
NETHERLANDS ANTILLES TWR: 11815 f/d House cd w/ sked in 24 ds for 3
 ircs. (McCants-AL). 9535 & 11930 f/d cd w/ sked in 43 ds for 2 ircs.
 (Carson-OK). RN Relay: 15315 f/d Hermes cd in 55 ds. (Greer-NC).
 17605 f/d Spacelab cd w/ sticker & calendar in 63 ds. (Gerstner-NY).

U.S.A. KGEI: 15280 f/d cd in 39 ds for ms. (Greer-NC). KUSW: 9815 f/d cd in 53 ds for ms. (Halloran-MA). f/d cd in 40 ds. (Greer-NC).
R Marti: 11930 f/d cd w/ ltr & sked in 25 ds for an irc. (Hunt-FL). VoA: 9585 f/d cd w/ sked & patch in 108 ds. (Morin-ON). 5965, 6060, 6095, 9575, 9670 & 21545 f/d cd w/ sked & mag in 57 ds. (NZ-Stringer). VoFC Rmlay: 5950 f/d cd in 35 ds for an irc. (Halloran-MA). f/d cd in 36 ds. (Gerstner-NY). 5950 & 9680 f/d cd w/ goodies in 27 ds. (Levison-PA). WCSN: 15300 f/d computer ltr in 7 ds for ms. (Weber-OH). WHRI: 9495 f/d cd in 97 ds. (Bishop-NY). f/d Logo cd in 105 ds for ms. (Halloran-MA). 13760 f/d cd in 194 ds for ms. (NY-Bishop). f/d cd & goodies in 237 ds for ms. (Karcheski-MA). f/d cd in 239 ds for ms. (Bishop-NY). 17830 f/d cd & sked in 65 ds. (Hunt-FL). WINB: 15185 f/d cd in 60 ds for ms. (Hunt-FL). f/d cd in 8 wks. (Greer-NC). 15295 f/d cd in 37 ds for ms. (Halloran-MA). WWCR: 7520 f/d DIY cd in 170 ds for ms. (George-MA). 15690 f/d cd in 28 ds for ms. (Brown-IL). f/d cd in 76 ds for ms. (Greer-NC). n/d cd in 82 ds for ms. (Halloran-MA). n/d cd in 7 mo for ms. (Gaharan-LA). n/d cd & sked in 124 ds for ms. (Carson-OK). n/d cd & sked in 8 1/2 mo (Landau-NJ). WYFR: 5985 f/d cd & sked in 19 ds for ms. (Halloran-MA). f/d cd in 27 ds. (Greer-NC). 11830 f/d cd in 10 ds. (McCants-AL).

OCEANIA

AUSTRALIA R Australia: 6020 f/d cd w/ goodies in 18 ds after f-up. (Weber-OH). 15245 n/d cd w/ goodies in 91 ds. (Gerstner-NY). 21775 f/d ltr w/ n/d cd in 25 ds. (Ashimori-JN).

FRENCH POLYNESIA RFO: 15170 f/d logo cd in 54 ds for a FF rpt & 2 ircs. (Reese-DE).

GUAM KSDA: 15125 f/d sticker cd in 63 ds. (Greer-NC).

NEW ZEALAND RNZI: 15485 f/d pennant cd w/ sked in 46 ds for 3 ircs. (Carson-OK). 17680 f/d pennant cd w/ sked in 15 ds for a tape & \$2. (Willers-SW). p/d Lake Taupo cd in 16 ds for 3 ircs. (Brown-IL). f/d pennant cd w/ sked in 24 ds for 3 ircs. (Hart-MN). p/d cd in 37 ds. (Greer-NC). f/d cd w/ pennant in 40 ds for 3 ircs. (Harrington-CO).

MARIANAS ISLANDS FEBC: 12025 f/d x'mtr cd w/ sked in 41 ds for ms. (Karcheski-MA).

PAPUA NEW GUINEA R East New Britain: 3385 f/d Logo/Scene cd in 126 ds for ms. V/S Raka D. Saini. (Karcheski-MA).

SOUTH AMERICA

ARGENTINA RAE: 11710 f/d Logo cd in 63 ds. (Brown-IL). f/d cd in 76 ds for an irc. (Halloran-MA).

COLOMBIA Caracol: 5075 p/d Globe cd in 58 ds for a SS rpt & an irc. (Reese-DE).

ECUADOR HCJB: 15155 f/d cd in 24 ds for ms. (McCants-AL). 9475 & 15155 f/d cd in 28 ds. (Brown-IL). f/d cd w/ sked in 32 ds for an irc. (Halloran-MA). f/d cd in 37 ds. (Greer-NC). 15115 f/d cd in 42 ds for ms. (Bishop-NY). R Centro: 3290 p/d ltr w/ stickers & banknote in 18 ds for a SS rpt & \$1. V/S Luis Gamboa. (Pagano-DC).

FRENCH GUIANA RFI Relay: 9800 f/d cd in 36 ds. (Greer-NC).

PERU R Atlantida: 4790 f/d ltr in 51 ds for 2 ircs. (Greer-NC). f/d cd w/ ltr & banknote in 90 ds for a SS rpt & ms. V/S Julio Reategui Trigoso. (Robinson-TN). La Voz de la Selva: 4825 f/d Photo cd w/ ltr in 40 ds registered for a SS rpt & 2 ircs. (Pagano-DC).

UTES

AUSTRALIA VHP: 16918.8 f/d ltr in 29 ds. (Conway-UK).

AZORES Lajes Global: 13244 f/d map cd in 26 ds for SASE. (Watts-KY).

CHINA BPM: 10000 f/d Clock cd w/ sked & info in 65 ds for ms. V/S Guo Qingsheng. (Karcheski-MA).

FIJI 3DN: 5643 f/d cd w/ ltr in 40 ds. (Stringer-NZ).

G.F.R. Norddeich Radio: 17143.6 f/d form ltr in 60 ds for 2 ircs- which were returned. (Hunt-FL).

GREAT BRITAIN MCR: 388 f/d pfc in 2 ds. (Conway-UK). Portishead Radio: 4251.5 f/d cd w/ ltr in 42 ds for an irc. (Hunt-FL). Gatwick Aero: 11363 f/d pfc- QSL #1 (congrats!) for a visit. V/S Robert S. Biggart. (Conway-UK). GKA: 22407.3 f/d cd w/ ltr in 35 ds. (Hunt-FL).

HAWAII WWVH: 15000 p/d cd in 19 ds. V/S N. Hironaka. (Greer-NC).

ISRAEL 4XO: 4238 f/d ltr in 50 ds for 2 ircs. (Hunt-FL).

NETHERLANDS PCH51: 12800 p/d cd in 13 ds for an irc. V/S PA3DEU (Flynn-CA). PCH: 22608.5 f/d cd in 23 ds for an irc. V/S H.G. Klijn-PA3DEU... thought I just heard that one!... (Watts-KY).

Unfortunately out of room- see ya next month!

T. B. Ray

UTILITIES

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US Coast Guard Search and Rescue (SAR) and Air/Surface Communications

DISTRESS AND SAR OPERATIONS: As outlined in the US Coast Guard Radio Frequency Plan, initial communications between vessels or aircraft in distress and the mobile units proceeding to their assistance is normally on the frequency which was used by the vessel or aircraft in declaring the emergency or distress. In the case of maritime HF operations, the International Distress and Calling SSB voice frequency is 2182.0 kHz. Note that not all transmissions heard on this frequency will be of emergency nature; it is mostly used by ships at sea and coastal stations to initiate contacts and announce broadcasts on other frequencies. However, with the exception of distress communications and safety signals, no transmissions will be made on this frequency for three minutes twice each hour beginning on the hour and half hour (H+00 and H+30). [On longwave, 500 kHz is an additional distress/calling frequency for telegraphy (CW & MCW) only.] The frequencies of 4215.0 and 6215.5 kHz (SSB voice) are used to supplement 2182.0 kHz for distress and safety purposes and for call reply in the areas of Central and South America, Southeast Asia and the Pacific Ocean.

In the case of aircraft emergencies, distress information will first be announced on the frequency in use for normal communications with aeronautical ground stations at the time of the incident. Search and rescue craft proceeding to the assistance of the aircraft must obtain pertinent frequency information from the controlling surface station. That frequency normally will be used for establishing initial communication as well as for handling ensuing communications between the distressed aircraft, assisting mobile craft, and the controlling surface radio station. On HF, these frequencies can be an ICAO HF Network channel, LDOC frequency, or military control frequency. Aircraft may also use 4125.0 kHz to communicate with stations of the maritime service for distress and safety purposes.

The frequency of 8364.0 kHz is the International High Frequency for Survival Craft Equipment. Coast Guard units, other than aircraft, shall not transmit on this frequency except in cases involving distress, though it is recognized that a unit in distress may call a Coast Guard station and request a reply on 8364.0 kHz. If it is in the capability of the unit in distress to receive on another appropriate USCG working frequency, the Coast Guard station should shift to this frequency as soon as practicable. Note that this frequency is for telegraphy (CW and MCW modes) only.

The SAR Control Frequencies of 3023.0 and 5680.0 kHz are for use between the Rescue Coordination Center ashore and the On-Scene Commander. In addition, the Coast Guard common, District working, ship/shore and air/surface frequencies may be used for SAR control.

Some additional info for the VHF/UHF enthusiast: In the VHF-FM marine band, 156.8 MHz (Channel 16) is the international distress and calling frequency for the maritime mobile service. Aeronautical VHF-AM frequencies may also be used when line of sight range of a distressed aircraft is realized, typically 121.5 or 243 MHz depending on the nature of the aircraft. The VHF-AM frequency of 123.1 MHz is the worldwide SAR scene of action frequency, assigned to provide government and non-government land, mobile and portable stations a common channel for voice communications during joint

SAR operations. Many other VHF/UHF frequencies can be used for USCG SAR operations, but it is outside of the scope of this article to list them all.

AIR / SURFACE OPERATIONS: The following are Primary HF Air/Surface SSB voice frequencies, available to Coast Guard air stations and air detachments with fixed wing, or fixed and rotary wing aircraft attached. Most are shared with the US Navy on a primary or secondary basis (all frequencies in kHz):

2141.0	5696.0	11201.0
2261.0	8984.0	15081.0
3123.0	11195.0	15087.0

For Coast Guard air stations and air detachments with only rotary wing aircraft, the following Primary frequencies are available:

2141.0	5692.0	11198.0
2261.0	8980.0	15084.0
3120.0		

Secondary HF Air/Surface SSB voice frequencies correspond to the appropriate USCG district voice working frequencies, as follows:

1st District (Boston, MA):

2694.0
2707.0
3253.0

3rd District (New York, NY):

2662.0
2686.0

5th District (Norfolk, VA):

2675.0
2702.0
5320.0

7th District (Miami, FL):

2678.0
2691.0
5320.0

8th District (New Orleans, LA):

2683.0
2699.0
5320.0

9th District (Cleveland, OH):

2678.0
3241.0

11th District (Long Beach, CA):

2675.0
2694.0
2710.0
3382.0
5320.0

12th District (Alameda, CA):

2659.0
2686.0
5320.0

13th District (Seattle, WA):

2699.0
2707.0

14th District (Honolulu, HI):

2683.0
2702.0
5320.0

17th District (Juneau, AK):

2678.0
2748.0
4575.0

Four assigned Intra-Coast Guard HF Working Simplex frequencies are common to all USCG units and may be used for air/surface, air/air, ship/ship and ship/shore communications. These frequencies are 2103.5 (primary), 2667.0, 2670.0 and 5422.5 kHz.

EDITOR'S NOTE: The USCG Radio Frequency Plan, published by the US Department of Transportation, is a complete outline of USCG frequency utilization from 10 kHz to 23 GHz. The opening Commandant Instruction states that "the distribution of this directive is limited to those commands having actual need for its contents..." in other words, radio nerds. hi. Much of the above is copied verbatim from the Plan, so I will eagerly await the "plagiarism" accusations to fly from certain authoritative types. Maybe Joe Biden and I can be pals.... Nehhhhh! In any case, I wish to thank the kind people at the DOT in Washington who honored my request for the Plan, and for sending it to me as quickly as they did.

SPEEDX UTILITY STATION LIST

Part 1: 1600.0 - 7999.9 kHz

May 1990

kHz	MODE	COUNTRY	CALL	LOCATION	UTC	REMARKS	CONTRIBUTOR
1906.0	CW	France	FFM	Marseilles Radio	2109	Tfc list	Conway-UK
2182.0	USB	Morocco	CNP	Casablanca Radio	2109	EE/FF call & listen 2586	Conway-UK
2182.0	USB	....	....	USCG COMMSTAS	....	International Distress/Calling Channel. Stations reported include: NMA21 St. Petersburg, FL; NMF2 Woods Hole, MA.	....
2201.0	USB	Australia	VIS	Sidney Radio, NSW	0750	Wx broadcast	Stringer-NZ
2598.0	USB	Canada	VOJ	Stephenville CG Radio, Nfld.	0218	Sea state forecast	Gerstner-NY
2655.0	RTTY	Chile	CCM	Magallenes Radio	0117	850/50	Moon-RSA
2670.0	USB	USA	NOY3	Port Aransas, TX	0618	USCG. Short announcement	Symington-OH
2716.0	USB	....	....	WORLDWIDE USN FREQUENCY	....	Fixed and mobile station tfc	....
2716.0	USB	USA	....	"Fisher", Cape Radio, FL	0945	NASA comms on US Navy freq.	Gordon-CT
2800.0	CW	Israel	4XZ	Haifa Naval	0120	Israeli Navy. Marker	Moon-RSA
2824.0	USB	Netherlands	PCG	Scheveningen Radio	0254	Maritime wx broadcast	Karcheski-MA
2841.0	USB	USSR	....	Rostov VOLMET	0129	....	Moon-RSA
2850.0	CW	S. Africa	ZSC	Capetown Radio	0330	DE Marker	George-MA
2863.0	USB	Hawaii	....	Honolulu VOLMET	1055	....	Stringer-NZ
2965.0	USB	Australia	....	Sydney VOLMET	1030	....	Stringer-NZ
3016.0	USB	....	....	ICAO NAT-A AREA	....	Stations reported include: Gander, Nfld., Canada; Shanwick, UK;	George-MA
3229.0	RTTY	USA	AFS	Omaha, NE	0147	850/75N: USAF AWS w/weather	Karcheski-MA
3319.0	CW	Scotland	MGJ	Glasgow Naval	0250	RN. V Marker	George-MA
3336.0	USB	New Zealand	....	Unknown	0905	Lands and Survey w/tfc in English	Stringer-NZ
3345.0	USB	New Zealand	BY [?]	North Island	0733	Mountain Radio w/tfc in English	Stringer-NZ
3357.0	FAX	USA	NAM	Norfolk, VA	0530	120/576	Yarbrough-NC
3782.0	CW	Portugal	CTP	Oeiras Naval	0444	Portugese Navy. DE Marker. Better than 6389.0	Alexander-IA
3860.0	LSB	USA	WA3NAN	Greenbelt, MD	....	Goddard Space Flight Center. Shuttle audio re-broadcasts	Alexander-PA
4003.2	LSB	USA	....	US ARMY MARS FREQUENCY	0007	Stations reported include: AAV5IF, AARSUY, AARSVT	Perdue-AL
4004.9	CW	Unknown	K	Unknown	1242	Beacon	Stringer-NZ
4007.0	USB	....	....	USN MARS FREQUENCY	....	Stations reported include: NNNØBSR & NNNØKL	Lindley-AL
4022.0	CW	USA	WHY912	Mt. Weather, VA	0805	FEMA VIP Relocation Site w/5 letter tfc	Symington-OH
4025.0	LSB	....	....	US ARMY MARS FREQUENCY	....	Stations reported include: AAR7FQ & AAA8CO	Lindley-AL
4038.5	USB	....	....	USN MARS FREQUENCY	....	Stations reported include: NNNØZMH	Lindley-AL
4056.0	RTTY	Cameroon	TJK	Douala	0210	425/50: AFTN/ASECNA. Test tape	Moon-RSA
4066.1	USB	....	....	WORLDWIDE USN FREQUENCY	....	Fixed and mobile station tfc	....
4125.0	USB	USA	....	LIMITED COASTAL FREQUENCY	....	Inland waterways ship-to-shore tfc. Stations reported include: WBV Port Richmond, NY; Port Allen, ??.	....
4221.4	CW	Gibraltar	GYU	Gibraltar Naval	0844	RN. DE Marker	Conway-UK
4223.5	CW	Malta	9HD	Malta Radio	2131	V Marker	Conway-UK
4225.0	CW	Mexico	XFM	Manzanillo Radio	0522	CQ Marker	Morby-NY
4231.0	CW	Qatar	A7D	Doha Radio	1656	DE Marker	Conway-UK
4231.5	CW	USSR	UVA	Unknown	2002	CQ Marker	Conway-UK
4232.0	CW	Martinique	FUF	Fort de France Naval	0105	French Navy. V Marker	Perdue-AL
4232.5	CW	Hong Kong	VPS8	Hong Kong Radio	2146	DE VPS- Marker	Conway-UK
4232.5	CW	Portugal	CTV4	Lisbon Naval	0843	Portugese Navy. Wx msgs	Conway-UK
4234.0	CW	Malaysia	9MB	Penang Naval	....	Malaysian Navy	Moon-RSA
4235.5	CW	Spain	EDF	Aranjuez Radio	2159	V Marker	Hunt-FL
4236.0	CW	USSR	UDH	Riga Radio	1655	CQ Marker	Conway-UK
4238.0	CW	India	VTP4	Vishakhapatnam Naval	1653	Indian Navy. V Marker	Conway-UK
4238.0	CW	Israel	4XO	Haifa Radio	2204	CQ Marker	Hunt-FL
4239.0	CW	Malaysia	9MB6	Penang Naval	2223	V Marker	Morby-NY
4240.0	CW	Malaysia	916	Pinang Naval	1651	Malaysian Navy. V Marker	Conway-UK
4242.5	CW	S. Africa	ZSD43	Durban Radio	2230	CQ Marker	Conway-UK
4242.5	CW	E. Germany	Y5M	Ruegen Radio	2211	V Marker	Hunt-FL

4244.0	CW	S. Africa	ZRH	Fisantekraal Naval	.....	RSA Navy. V Marker	Moon-RSA
4244.0	CW	USSR	URL	Sevastopol Radio	1726	CQ Marker	Conway-UK
4245.0	CW	Australia	VIS53	Sydney Radio, NSW	1649	V Marker	Conway-UK
4248.0	CW	S. Africa	ZRQ	Simonstown Naval	0222	RSA Navy. Marker	Moon-RSA
4250.0	CW	Mexico	XFL	Mazatlan Radio	1045	CQ Marker	George-MA
4251.0	CW	Brazil	PPJ	Juncao Radio	2336	V Marker	Conway-UK
4253.0	CW	Turkey	TAH	Istanbul Radio	2018	DE Marker	Conway-UK
4253.5	CW	Saudi Arabia	HZ6	Dammam Radio	2036	DE HZ6* Marker	Conway-UK
4260.0	CW	Turkey	TBA2	Ankara Naval	1649	Turkish Navy. V Marker	Conway-UK
4267.0	CW	France	FUE	Brest Naval	0610	V Marker	Berri-CA
4270.6	RTTY	Canada	CFH	Halifax, NS	0630	850/75N: Meteo	Uerlings-OR
4275.0	CW	Panama	HPP	Panama Intelmar Radio	0739	CQ Marker	Bevens-MA
4275.0	CW	Turkey	TBA5	Ankara Naval	1644	Turkish Naval. V Marker	Conway-UK
4275.0	CW	Unknown	2RC8	Unknown	1238	Clg 8L9S	Hardester-JP
4277.0	CW	W. Germany	DHJ59	Willemshavn	2141	V Marker	Conway-UK
4277.0	CW	Colombia	HKB	Barranquilla Radio	2229	CQ Marker	Hunt-FL
4277.0	CW	New Zealand	ZLB2	Awarua Radio	.....	.....	Conway-UK
4280.0	CW	Algeria	7TA2	Algiers Radio	2051	CQ Marker	Conway-UK
4280.8	CW	China	XSV	TianJin Radio	1240	CQ Marker	Hardester-JP
4283.0	CW	China	XSV	TianJin Radio	2035	CQ Marker	Conway-UK
4283.0	CW	S. Africa	ZSJ2	Capetown Naval	2057	RSA Navy. CQ Marker	Conway-UK
4283.0	CW	USSR	UOK	Riga Radio	2058	DE Marker	Conway-UK
4285.0	CW	Canada	VCS	Halifax, NS	0335	Canadian Forces. CQ Marker	Lindley-AL
4285.0	CW	USSR	UAH	Tallin Radio	1915	Tfc. Clg UJLA	Conway-UK
4286.0	CW	Australia	VIX2	Canberra Naval, ACT	1639	RAN. V Marker	Conway-UK
4289.0	CW	Algeria	7TA2	Algiers Radio	1954	CQ Marker	Conway-UK
4291.0	CW	S. Africa	ZSC46	Capetown Radio	1850	CQ Marker	Conway-UK
4292.0	CW	Italy	IAR	Rome Radio	0001	CQ Marker	Hunt-FL
4294.0	CW	Greece	SXA34	Piraeus Naval	1636	Greek Navy. V Marker	Conway-UK
4295.0	CW	France	HWN	Paris-Houilles Naval	2257	V/CQ Marker	Hunt-FL
4296.0	CW	Brazil	PP0	Olinda Radio	2239	V Marker	Conway-UK
4299.0	CW	Kuwait	9KK2	Kuwait Radio	1659	CQ Marker	Conway-UK
4300.3	RTTY	England	GYA	London Naval	1908	850/75: RN. Testing	Delaunoy-FR
4302.0	CW	Bahrain	A9M	Bahrain Radio	2026	DE Marker	Conway-UK
4305.0	CW	Japan	JNA	Tokyo Radio	2130	CQ Marker	Conway-UK
4305.5	CW	Japan	JNA	Tokyo Radio	1937	CQ Marker	Conway-UK
4307.0	CW	USSR	UON	Baku Radio	2059	Tfc	Conway-UK
4308.0	CW	S. Korea	HL6	Seoul Radio	2156	V Marker	Conway-UK
4308.0	CW	Scotland	M6J	Glasgow Naval	1800	RN. V Marker	Conway-UK
4313.0	CW	Singapore	9V633	Singapore Radio	2044	CQ Marker	Conway-UK
4314.0	CW	Bulgaria	LZW2	Varna Radio	2105	CQ & tfc list	Conway-UK
4317.0	CW	S. Africa	ZSC33	Capetown Radio	1949	Clg CQ	Conway-UK
4319.0	CW	China	XSG	Shanghai Radio	1230	CQ Marker	Hardester-JP
4328.0	CW	France	FFL2	St. Lys Radio	0018	V Marker	Hunt-FL
4330.0	CW	USSR	UXN	Arkhangelsk Radio	2055	Manual tfc & DE Marker	Conway-UK
4331.0	CW	Israel	4XZ	Haifa Naval	1952	Israeli Navy. V Marker	Conway-UK
4334.0	CW	Reunion	FUX	St. Denis Naval	2112	French Navy	Conway-UK
4337.0	CW	Poland	SPH	Gydnia Radio	2307	DE Marker	Conway-UK
4340.0	CW	China	XSQ	Guangzhou Radio	1956	CQ Marker	Conway-UK
4349.0	CW	USSR	UXN	Arkhangelsk Radio	2029	DE Marker	Conway-UK
4350.0	CW	Bahrain	A9M	Bahrain Radio	2159	DE Marker	Morby-NY
4350.9	RTTY	USSR	UBE1	Petropavlovsk Radio	0830	170/50R: RYRYRY & Tfc	Berri-CA
4363.3	USB	USA	WOM	Miami Radio, FL	0645	Wkg 3EYK3 SS HOLIDAY on 4069.0	Symington-OH
4376.0	USB	USA	NMF	Boston, MA	0219	USCG. SAR mission for raft w/EPR going off	Morby-NY
4410.1	USB	Unknown	....	Unknown	0300	Wx in unid language. Norway??	Lannuier-NJ
4428.7	USB	USA	NMN	Portsmouth, VA	0419	USCG. Maritime wx for East Coast	Lindley-AL
4482.0	RTTY	China	BUZ25	Hangzhou	1231	400/50N: Coded meteo	Blair-CA
4506.0	USB	Mozambique	....	Maputo	....	Telcom	Moon-RSA
4517.0	USB	....	....	USAF MARS FREQUENCY	....	Stations reported include: AFF3MO	Lindley-AL
4529.0	USB	USA	WOM	Pennsuco Radio, FL	0131	Wkg MARDI GRAS w/phone patch	Lindley-AL
4562.5	CW	Norway	JWT	Stavanger Naval	2310	Norwegian Navy. V Marker	George-MA
4577.0	USB	....	....	USAF MARS FREQUENCY	....	Tennessee region net. Stations reported include: FA2T.	Lindley-AL
4593.5	USB	....	....	USAF MARS FREQUENCY	....	Stations reported include: AFF10	Lindley-AL
4607.3	RTTY	Spain	7BYLQ	Tarifa Naval	0740	850/75 : Spanish Navy w/RYRYRY	Lannuier-NJ
4610.0	FAX	England	GFA22	Bracknell	0341	120/576	Yarrough-NC
4654.0	USB	Spain	....	Madrid	0413	LDOC. Wkg IBERIA 9261 [This is LDOC freq for Berne, Switzerland... ed.]	George-MA
4675.0	USB	....	....	ICAO NAT-D AREA	....	Stations reported include: Gander, Nfld., Canada; Reykjavik, Iceland	George-MA
4704.0	FAX	Spain	AOK	Rota	0350	120/576: USN.	Yarrough-NC

4722.0	USB	England	MVU	RAF VOLMET, West Drayton	0213	Wx & ID at 0215	Karcheski-MA
4746.0	USB	Azores	CWU	Lajes Field	0316	USAF. Wkg RAIDER 47 re Lajes wx	George-MA
4752.0	USB	Canada	....	several	0421	RCAF. Several fixed and mobile stations heard, including Gander & St. Johns. Aero wx and position reports from a/c	Lannuier-NJ
4765.0	CW	Tunisia?	3VU	Tunis?	2203	CQ DE 3VU" Marker, then 5FG tfc	Conway-UK
4777.5	FAX	Italy	IMB37	Rome	0300	120/576	Yarbrough-NC
4797.5	CW	France	FDY	Orleans Air	0435	FAF/V Marker	Lannuier-NJ
5000.0	AM	Venezuela	YVTO	Caracas	2318	Time Signals in Spanish	Thornton-NJ
5015.0	AM	Unknown	....	Unknown	0012	Numbers by YL in German	Karcheski-MA
5045.0	AM	Unknown	....	Unknown	2312	Numbers in EE	Karcheski-MA
5050.0	CW	USSR	UVA	Unknown	0100	Info, anyone?	Janusz-NJ
5064.0	CW	Malaysia	9MB	Pinang Naval	1650	Malaysian Navy. V Marker	Hardester-JP
5097.0	RTTY	Japan	JAB35	Tokyo	1350	425/50R: Jiji Nx in EE	Kuroda-JP
5107.0	RTTY	Iran	EPD	Tehran	2300	425/50: AFTN 'TKA' circuit	Conway-UK
5200.0	USB	Zambia	....	[ Lusaka? ]	....	Police HQ	Moon-RSA
5211.0	USB	USA	....	FEMA FREQUENCY	....	Stations reported include: W6Y909 San Francisco; W6Y912 Mt. Weather, VA. After SF earthquake Oct89	Schulsinger-OH
5240.0	RTTY	Yugoslavia	40C2	Belgrade	0310	400/50R: TANJUG Nx in EE	Agner-MD
5258.0	CW	Cuba	CMU967	Santiago Naval	0610	Soviet Navy. Wkg UMHG simplex	Berri-CA
5275.0	RTTY	Egypt	SUA211	Cairo	2015	400/50: MENA news in FF	Delaunoy-FR
5276.0	USB	S. Africa	....	Pretoria	....	Telcom	Moon-RSA
5280.0	USB	W. Germany	DFE28	Cologne	....	Deutsche Welle feeder	Moon-RSA
5320.0	RTTY	Libya	5AF	Tripoli Air	....	425/50N: AFTN. Test tape	Moon-RSA
5320.0	CW	....	....	USCG COMMSTAS	....	Stations reported include: NMF Boston, MA; NMG New Orleans, LA; NOYB Corpus Christi, TX.	....
5460.0	RTTY	Morocco	CNA7	Tangier	2215	425/75R: VOA Nx. QRA Marker	Conway-UK
5499.0	USB	Congo	....	Brazzaville VOLMET	2225	Wx for central African cities in French and English	George-MA Moon-RSA
5505.0	USB	Ireland	....	Shannon VOLMET	....	LDOC. British Airways HQ wkg SPEEDBIRD 262	George-MA
5535.0	USB	England	....	London	0356	Stations reported include: Santa Maria, Azores; Gander, Nfld., Canada.	....
5598.0	USB	....	....	ICAO NAT-A AREA	....	Stations reported include: Gander, Nfld., Canada	Wolfson-OH
5616.0	USB	....	....	ICAO NAT-B AREA	....	Stations reported include: Sydney, NSW, Australia; Nandi, Fiji Is.; Honolulu, Hawaii.	....
5643.0	USB	....	....	ICAO SP-6/7 AREAS	0402	Stations reported include: Gander, Nfld., Canada	Lukas-NY
5649.0	USB	....	....	ICAO NAT-C AREA	....	Stations reported include: Bombay, India; Karachi, Pakistan.	Gianni-IT
5658.0	USB	....	....	ICAO MID-2 AREA	0616	Canadian Forces. Wx for W.German bases	Symington-OH
5690.0	USB	W. Germany	DHM95	Lahr Military	....	Air to Ground. Stations reported include: NOT Traverse City, MI	....
5692.0	USB	....	....	USCG COMMSTAS	....	Air to Ground. Stations reported include: NMC San Francisco, CA; NMF Boston, MA; NMG New Orleans, LA; NMN Portsmouth, VA; NOJ Kodiak, AK; NOR San Diego, CA; NOS Cape Cod, MA; NMA Miami, FL; NOYB Corpus Christi, TX.	....
5696.0	USB	....	....	USCG COMMSTAS	....	425/50: Testing	Moon-RSA
5770.0	RTTY	Bulgaria	LZ09	Sofia	....	Telcom	Moon-RSA
5778.0	USB	Botswana	....	Unknown	0245	120/576: USN. Wx charts	Symington-OH
5783.0	FAX	USA	NHN	San Francisco, CA	....	425/50	Moon-RSA
5783.5	RTTY	Botswana	A2P	Gaborone	....	1924 425/50: AFTN 'MLA' circuit	Conway-UK
5787.0	RTTY	Botswana	A2G	Gaborone	....	850/50	Moon-RSA
5818.5	RTTY	Malta	9HA	Luqa	1214	425/50: MFA. QRA Marker	Conway-UK
5824.0	RTTY	Libya	5AF	Tripoli Air	1400	425/50N: INA Nx in AA	Uerlings-OR
5830.0	RTTY	E. Germany	Y7K22	Berlin	2030	425/50: AFTN. RYRURY/DE Marker	Conway-UK
5867.0	RTTY	Iraq	YIL68	Baghdad	0104	USN. Coded msg	Hunt-FL
5879.0	RTTY	South Yemen	70C	Aden	1250	Beacon	Stringer-NZ
5917.5	CW	Spain	AOK	Rota Naval	0840	Cig PV25	Hardester-JP
5919.8	CW	Unknown	K	Unknown	1200	Wkg M/V JIM BAKER	Perdue-AL
6208.5	CW	Unknown	R5SA	Unknown	0220	V Marker	Hawkins-TX
6221.6	USB	USA	KXS319	Greenville, MS	0415	Numbers in EE by YL	Karcheski-MA
6228.0	CW	Belgium	OST32	Ostend Radio	0250	850/75R: Tfc until 0252, then RY	Lannuier-NJ
6235.0	AM	Unknown	....	Unknown	1139	CQ Marker	Hardester-JP
6288.4	RTTY	Canary Is.	71HG6	Las Palmas Naval	0500	120/576: Wx maps	Yarbrough-NC
6302.0	CW	S. Korea	HLF	Seoul Radio	2130	Portugese Navy. CQ Marker & Wx	Conway-UK
6330.0	FAX	Canada	CFH	Halifax, NS	....	....	....
6331.3	CW	Azores	CTH47	Horta Naval	....	....	....

6331.5	CW	USSR	UMV	Murmansk Radio			
6334.5	CW	USSR	UFM3	Nevelsk Radio			Conway-UK
6337.0	CW	Chile	CBV	Valparaiso Radio			Conway-UK
6339.8	CW	New Zealand	ZLO	Irirangi Naval			Conway-UK
6340.4	CW	France	FUE	Brest Naval			Conway-UK
6340.5	CW	Singapore	9V69	Singapore Radio			Conway-UK
6344.0	CW	Iceland	TFA	Reykjavik Radio			Conway-UK
6344.0	CW	S. Korea	HLF	Seoul Radio			
6345.0	CW	Spain?	EBB	Unknown			Hardester-JP
6348.0	CW	France	HWN	Paris-Houilles Naval			Conway-UK
6352.0	CW	France	FUG	La Regine Naval			Hogan-IL
6364.5	CW	Saudi Arabia	HZG	Dammam Radio			Conway-UK
6369.0	CW	Angola	D3E41	Luanda Radio			Conway-UK
6371.2	CW	Gibraltar	GYU	Gibraltar Naval			Bevens-MA
6374.0	CW	Turkey	TB03	Izmir Naval			Bevens-MA
6375.0	CW	USSR	URB2	Klalpeda Radio			Conway-UK
6379.0	CW	Israel	4XZ	Haifa Naval			Conway-UK
6383.0	CW	Senegal	6VA	Dakar Radio			Bevens-MA
6384.5	CW	Canada	CKN	Vancouver Radio, BC			George-MA
6385.0	CW	Brazil	PPR	Rio Radio			Conway-UK
6386.3	CW	Colombia	HKC	Buenaventura Radio			Conway-UK
6389.0	CW	Portugal	CTP	Oeiras Naval			Conway-UK
6390.0	CW	Italy	IDQ3	Rome Naval			Hogan-IL
6391.5	CW	Belgium	OSN	Ostend Naval			Hunt-FL
6394.0	CW	Australia	VHI	Darwin Radio, NT			Conway-UK
6404.0	CW	Netherlands	PCH30	Scaveningen Radio			Moon-RSA
6409.5	CW	Italy	IAR9	Rome Radio			McKinney-PA
6411.0	RTTY	USSR	UKA	Vladivostok Radio			Hawkins-TX
6415.0	CW	Algeria	7TF	Boufarik Radio			Berri-CA
6418.0	CW	India	VTP5	Vishakhapatnam Naval			Conway-UK
6422.0	CW	France	FFL	St. Lys Radio			Conway-UK
6428.5	CW	Australia	VIS	Sydney Radio, NSW			McKinney-PA
6430.0	CW	Canada	CFH	Halifax, NS			Conway-UK
6442.5	CW	Mexico	XFS3	Tampico Radio			Bevens-MA
6451.0	CW	S. Korea	HLG	Seoul Radio			Berri-CA
6456.0	CW	Canada	CKN	Vancouver Radio			Conway-UK
6462.0	CW	Society Is.	FUM	Papeete Naval			Moon-RSA
6463.8	CW	Colombia	HKB	Barranquilla Radio			Perdue-AL
6464.0	CW	Australia	VIS3	Sydney Radio, NSW			Bevens-MA
6466.0	CW	E. Germany	YSM	Ruegen			Conway-UK
6470.0	CW	Greece	SXA24	Piraeus Naval			Hogan-IL
6470.5	CW	Jamaica	6YI	Kingston Radio			George-MA
6470.5	CW	Israel	4X0	Haifa Radio			Hawkins-TX
6473.5	CW	Romania	YQI	Constanta Radio			Lukas-NY
6495.5	CW	USSR	UFL	Vladivostok Radio			Conway-UK
6504.0	CW	Singapore	9V677	Singapore Radio			Hardester-JP
6505.0	CW	Italy	IDR3	Rome Radio			Berri-CA
6506.4	USB	....	....	USCG COMSTAS			Berri-CA
6518.8	USB	Canada	VCS	Halifax Radio, NS			....
6521.9	USB	USA	WCZ	Natchez Radio, MS			....
6521.9	USB	USA	KFX265	unknown			....
6529.7	RTTY	Libya	5AF	Tripoli Air			....
6604.0	USB	Canada	....	Gander VOLMET, Nfld.			....
6640.0	USB	USA	....	New York, NY			....
6676.0	USB	Australia	VLS	Sydney VOLMET, NSW			....
6676.0	USB	Thailand	....	Bangkok VOLMET			....
6679.0	USB	New Zealand	....	Auckland VOLMET			....
6685.0	CW	USSR	RFNV	Moscow			....
6738.0	USB	England	MLP	Upavon			....
6746.0	USB	Canada	....	Halifax Military, NS			....
6753.0	USB	Canada	CHR	Trenton Military, Ont			....
6756.0	USB	USA	ATA	Andrews AFB, MD			....
6760.0	USB	England	....	Plymouth Rescue			....
6805.0	RTTY	Poland	506200	Warsaw			....
6810.0	RTTY	Unknown	....	Unknown			....
6815.0	RTTY	China	BAL34	Beijing			....
6825.0	RTTY	Czechoslovakia	OMV92	Prague			....
2131				Very fast V Marker & tfc			Conway-UK
2110				CQ & Wx			Conway-UK
2245				CQ Marker			Conway-UK
1731				DE ZLO" Marker			Conway-UK
2145				French Navy. Hrd various times			Conway-UK
2102				CQ Marker			Conway-UK
0800				CQ Marker			Conway-UK
0329				CQ Marker			Hardester-JP
1026				V Marker. Naval?			Conway-UK
0346				French Navy. V Marker			Hogan-IL
2114				French Navy. V Marker			Conway-UK
2113				DE Marker			Conway-UK
0424				CQ Marker			Bevens-MA
0031				RN. DE Marker			Bevens-MA
2105				V Marker			Conway-UK
2000				Manual CQ			Conway-UK
0433				Israeli Navy. V Marker			Bevens-MA
2155				CQ and Wx in FF at 2200			George-MA
0844				Canadian Forces. Cig 'NAWS'			Conway-UK
2241				V Marker			Conway-UK
0846				CQ Marker. Off frequency slightly			Conway-UK
0337				Portugese Navy. CQ Marker			Hogan-IL
0130				Italian Navy. Coded msg			Hunt-FL
1031				Belgian Navy. V Marker			Conway-UK
2010				RA Navy. Marker			Moon-RSA
0145				CW Marker			McKinney-PA
0205				V Marker			Hawkins-TX
1455				Wkg MANSK			Berri-CA
2247				CQ Marker			Conway-UK
2052				V Marker			Conway-UK
2020				Q5X and freq. list			McKinney-PA
2054				V Marker, "Standby for longrange broadcast"			Conway-UK
2332				Canadian Forces. V Marker			Conway-UK
0615				Tfc list			Bevens-MA
2115				Very long QTC list & manual tfc			Berri-CA
0530				Canadian Forces. Marker			Conway-UK
1242				French Navy. V Marker & ID			Moon-RSA
2228				CQ Marker			Perdue-AL
1929				V Marker			Bevens-MA
0313				CQ Marker			Conway-UK
2308				Greek Navy. V Marker			Hogan-IL
1230				Odd 'chirpy' signal. CQ Marker			George-MA
0549				CQ Marker			Hawkins-TX
2329				CQ call & manual tfc			Lukas-NY
1200				DE Marker			Conway-UK
1525				ID Marker			Hardester-JP
1527				V Marker			Berri-CA
....				Stations reported include: NMN Portsmouth, VA;			Berri-CA
....				NMA Miami, FL.			....
0810				Canadian Forces. Marine Wx			....
2020				Wkg SEMINOLE BRAVE			Perdue-AL
1445				Limited coastal station. Wkg MERCURY and STEEL PATRIOT			Rocker-MS
....				B50/50: AFTN. Tset tape			Perdue-AL
0632				Aviation wx			Moon-RSA
0443				ARINC. Wkg ASCOT 3631			Berri-CA
1230				Wx info			Bronowicz-MO
1211				Aviation wx			Morby-NY
1220				Wx and ID			Hardester-JP
1845							Morby-NY
0900				ARCHITECT (RAF Strike Command). Coded wx report			Moon-RSA
0925				RCAF. Gave Wx but talked fast			Kerrigan-IL
0334				RCAF. Wx H+30			Alexander-IA
....				USAF. AIR FORCE ONE op. freq.			Thompson-CA
0105				Wkg RESCUE 54 & 56 w/SAR air mission tfc. [RAF 'Architect' freq.]			Karcheski-MA
0110				425/50R: PAP Nx in EE			Battles-NH
....				SITOR-A: Tfc in PP			Agner-MD
1437				425/50R: RYRYRY & ID			Moon-RSA
1317				425/50: RYRYRY & 5L6 tfc			Blair-CA
							Conway-UK

6830.0	RTTY USSR	RDW72	Khabarovsk	1325	1000/50R: Coded meteo	Blair-CA
6844.5	RTTY France	FDY	Orleans Air	1625	450/45: FAF. Testing	Conway-UK
6848.0	RTTY Hawaii	....	Hickham AFB	1153	850/75R: Meteo. 'PHWR' identifier	Blair-CA
6858.0	RTTY Kuwait	9KT25	Safat	1526	300/50R: KUNA Nx in EE	Blair-CA
6864.0	CW Unknown	U	Unknown	....	Beacon	Moon-RSA
6873.0	ISB USA	....	Greenville, NC	0330	VOA Feeder. Readable in AM mode. EE ID, into news in Romanian	Thompson-CA
6902.0	FAX USA	....	Unknown	2330	USAF/Wx maps [KAWN/Carswell AFB, TX?]	McKinney-PA
6903.0	USB S. Africa	....	Capetown	....	Oil rig traffic	Moon-RSA
6904.0	FAX USA	KGWC	Offut AFB, NE	1030	120/576: USAF. Wx charts	Symington-OH
6905.4	RTTY USA	KAWN	Carswell AFB, TX	0500	850/75N: USAF. Meteo	Lannuier-NJ
6941.5	RTTY Gabon	TRK	Libreville	1937	425/50: AFTN '6FA' circuit	Conway-UK
6943.0	RTTY Mauritania	5TX	Nouadhibou	2138	425/50: AFTN	Conway-UK
6963.4	RTTY USA	NMG	New Orleans, LA	0240	170/75R: USCG. Mix of clear & coded wx, & scrambled voice	Agner-MD
6975.0	RTTY Senegal	6VU	Dakar	0115	AFTN. RYRYRY, QJH1, etc. Barely readable	Alexander-IA
6975.0	USB W. Germany	DFE97	Frankfurt	0115	DW feeder. Nx in EE	Lannuier-NJ
6980.5	RTTY USSR?	UBE2	Unknown	2145	425/50N: 'RYRYRY DE UBE-2	Kuroda-JP
7335.0	AM Canada	CHU	Ottawa, ON	0355	Time Signals in English and French	Bronowicz-MO
7355.0	RTTY Mali	TZH	Bamako	....	425/50: ASECA	Moon-RSA
7395.0	RTTY Hong Kong	....	Royal Observatory	....	425/50	Moon-RSA
7474.0	RTTY Cameroon	TJK	Douala	2340	425/50N: AFTN/ASECA. RYRYRY, DE tape	Alexander-IA
7505.0	CW USA	NMN	Portsmouth, VA	....	USCG	Moon-RSA
7527.0	USB USA	....	US CUSTOMS/DEA FREQUENCY	....	Stations reported include: 'Almighty', Guantanamo Bay, Cuba; 'Slingshot', Miami, FL	....
7533.5	USB Puerto Rico	NNN0NPR	San Juan	....	USN MARS. Phone patch t/c. Emergency Hugo communications. Wx & casualty reports	Gordon-CT
7533.5	USB USA	WG912	Mt. Weather, VA	1930	FEMA. Cig NAV (USN MARS station, Washington DC) w/request for priority phone patch. Usually net for MARS t/c only.	Gordon-CT
7542.5	RTTY France	....	Paris	....	425/50: AFP Nx in EE. [Note: CFL & Kling. show: AFP Hong Kong]	Moon-RSA
7552.0	RTTY S. Africa	....	Pretoria	....	425/50: Meteo	Moon-RSA
7552.0	USB USA	WNFT417	Morristown, NJ	1913	Net Control (monthly HF net)	Battles-NH
7560.0	RTTY USSR	RPT30	Moscow	1530	350/50R: TASS Nx in EE	Blair-CA
7585.0	RTTY Senegal	6VY41	Dakar	0524	800/50N: Coded meteo	Blair-CA
7590.0	CW Unknown	W	Unknown	1254	Beacon	Stringer-NZ
7600.0	AM Ecuador	HD210A	Guayaquil	0436	Time Signals, announcements in SP	D'Angelo-PA
7611.0	RTTY Egypt	....	Cairo	....	425/50: MENA Nx in EE	Moon-RSA
7614.0	RTTY Niger	SUA	Niamey	2252	425/50: AFTN 'NKA' circuit t/c	Conway-UK
7625.4	RTTY Saudi Arabia	HZN47	Jeddah	0106	850/100N: Meteo	Lannuier-NJ
7627.0	CW Greece	KW578	Athens	0328	US Embassy. CQ Marker	Hunt-FL
7635.0	USB USA	....	CIVIL AIR PATROL NET FREQ.	0209	National check-in net	Karcheski-MA
7645.0	RTTY USSR	RGE36	Moscow	1516	425/50R: TASS Nx in EE	Blair-CA
7651.0	ISB USA	....	Greenville, NC	0548	VOA Feeder	Moon-RSA
7652.0	CW Liberia	KKN44	Monrovia	2246	US Embassy. CQ Marker	Karcheski-MA
7658.0	RTTY Yugoslavia	YZD	Belgrade	0059	425/50R: TANJUG nx in English. Report on Namibia independence	Karcheski-MA
7677.8	CW Unknown	U	Unknown	....	Beacon	Moon-RSA
7695.0	RTTY Taiwan	3MA26	Taipei	1400	850/50R: CNA freq/RYRYRY	Uerlings-OR
7700.0	CW Unknown	XL7S	Unknown	1300	DE Marker	Hardester-JP
7760.3	RTTY USSR	RGH77	Arkhangelsk	0053	850/50N: Meteo	Lannuier-NJ
7776.5	RTTY Belgium	OST38	Ostend Radio	0415	SITOR-B: Sports results	Lannuier-NJ
7817.0	RTTY Nigeria	SNK	Kano	2035	500/50: DE Marker	Conway-UK
7845.0	RTTY Poland	SOH284	Warsaw	0045	425/50N: PAP Nx. RYRYRY	Agner-MD
7860.0	AM Unknown	....	Unknown	0544	5FG in Spanish by YL	Lukas-NY
7863.0	RTTY China	BJZ21	Hangzhou	1255	425/50R: Coded meteo	Blair-CA
7878.0	RTTY USSR	RNN52	Moscow	....	425/50	Moon-RSA
7892.5	CW Poland	SPW	Warsaw Radio	0430	T/c list	Lannuier-NJ
7953.0	RTTY Argentina	LRN85	Buenos Aires	0129	850/75: DyN news in Spanish	Karcheski-MA
7954.3	RTTY Argentina	LRN85	Buenos Aires	0232	850/75N: DyN Nx in SS	Agner-MD
7964.5	RTTY Unknown	....	Unknown	1850	ARQ/100: NATO-type msg's.	Conway-UK
7972.0	RTTY Vietnam	XVH70	Hanoi	1541	425/50R: Coded meteo	Blair-CA
7996.0	RTTY Yugoslavia	YZD9	Belgrade	0145	170/50R: TANJUG Nx in EE. Very poor copy	Lannuier-NJ

Whoa, outa' room! See you next month with 8 to 12 MHz. 73 de

Paul

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