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. 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 in 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.


THE DX MAGAZINE FOR ACTIVE SWLs
Another month has come and gone! Whew...just where does the time fly anyway? Hope you all enjoyed last month's 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 an 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!
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.!

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 Excedrea 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... Hmmm...

To make up for this faux paux, 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 newscaster 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 a 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? *Cue 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 really 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 Aida 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
Brassington, 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
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 (Artye 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*

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Power</th>
<th>Callsign</th>
<th>Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>6045.1</td>
<td>1 kW</td>
<td>CXA61</td>
<td>Radio Libertad Sport (09:15-03:00, vs*)</td>
</tr>
<tr>
<td>6139.9</td>
<td>1 kW</td>
<td>CXA20</td>
<td>Radio Monte Carlo (10:30 - 16:30)</td>
</tr>
<tr>
<td>9620.3</td>
<td>0.5 kW</td>
<td>CXA6, SODRE (10:00 - 04:00 **)</td>
<td></td>
</tr>
<tr>
<td>11734.9</td>
<td>1 kW</td>
<td>CXA7, Radio Oriental (16:30 - 23:00, vs*)</td>
<td></td>
</tr>
<tr>
<td>11835</td>
<td>0.5 kW</td>
<td>CXA19, Radio El Espectador (10:00 - 03:00)</td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Power</th>
<th>Callsign</th>
</tr>
</thead>
<tbody>
<tr>
<td>4900</td>
<td>0.1 kW</td>
<td>CX8, Radio Sarandi (08:00 - 03:30)</td>
</tr>
<tr>
<td>6035</td>
<td>1 kW</td>
<td>CXA30, La Radio (13:00 - 05:00)</td>
</tr>
<tr>
<td>6075</td>
<td></td>
<td>CX118, La Voz de Artigas (11:00 - 03:00; new callsign!)</td>
</tr>
</tbody>
</table>

*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."
HCB: 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 HCB'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.

**VATICAN RADIO Current English Schedule**

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

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 Matsumoto, 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).
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)

All programmes 1 hr. in length.

RADIO SWEDEN in English

<table>
<thead>
<tr>
<th>Time</th>
<th>Freq</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:00</td>
<td>15405</td>
<td></td>
</tr>
<tr>
<td>02:30</td>
<td>11705</td>
<td></td>
</tr>
<tr>
<td>11:30</td>
<td>17740</td>
<td></td>
</tr>
<tr>
<td>14:00</td>
<td>17740</td>
<td></td>
</tr>
<tr>
<td>15:30</td>
<td>17880</td>
<td></td>
</tr>
<tr>
<td>17:00</td>
<td>6065</td>
<td></td>
</tr>
<tr>
<td>21:00</td>
<td>9655</td>
<td></td>
</tr>
</tbody>
</table>

All programmes 1 hr. in length.

RADIO NORWAY in English (Sunday Only)

<table>
<thead>
<tr>
<th>Time</th>
<th>Freq</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>06:00</td>
<td>15165</td>
<td></td>
</tr>
<tr>
<td>08:00</td>
<td>15575</td>
<td></td>
</tr>
<tr>
<td>09:00</td>
<td>17840</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>15165</td>
<td></td>
</tr>
<tr>
<td>13:00</td>
<td>9590</td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>21710</td>
<td></td>
</tr>
<tr>
<td>17:00</td>
<td>21710</td>
<td></td>
</tr>
<tr>
<td>18:00</td>
<td>21730</td>
<td></td>
</tr>
<tr>
<td>19:00</td>
<td>15165</td>
<td></td>
</tr>
<tr>
<td>22:00</td>
<td>17730</td>
<td></td>
</tr>
<tr>
<td>23:00</td>
<td>15165</td>
<td></td>
</tr>
<tr>
<td>24:00</td>
<td>15165</td>
<td></td>
</tr>
</tbody>
</table>

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

Your dues/subscription fee will be expiring soon. We hope that you've enjoyed your association with SPEEDX, and that you'll want to renew for another year. If so, help yourself and the SPEEDX staff by renewing today! Just fill in the necessary information below, enclose the indicated amount (made payable to SPEEDX in U.S. funds only, please) and mail to:

SPEEDX
P. O. BOX 196
DuBOIS, PA. 15801-0196
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 ______
Woody Seymour comments Phone
Vilnius's transmitters located outside Lithuania were independence
Robbie Reeves checks all too history, unless
Very disappointing; "Smith's Weekly" writes:
really than you I
The last A
at the same time, various
to with
Usually, this professional windbag; but usually RAI --or ORF, --I
say (Agreed. The

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 COFFEE TABLE, 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.

*=

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.

THE CONTINUOUS TUNING OP-ED SECTION

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, 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...inform them if they got on. For 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 1980 World Almanac, the ambassador is Piet Koomhof).

PRAVED: 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!
**WHAT'S ON**
*ENGLISH BROADCAST TO NORTH AMERICA*

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

**CHANGES ENTERED MARCH 18-APRIL 18, 1990**

<table>
<thead>
<tr>
<th>UTC Time</th>
<th>Station</th>
<th>Notes</th>
<th>Frequencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000-0100</td>
<td>R. Korea, S.Korea</td>
<td>---</td>
<td>15575</td>
</tr>
<tr>
<td>0000-0100</td>
<td>R. Moscow, U.S.S.R.</td>
<td>NAm svce 11850Bu; 9720Bu; 9665</td>
<td>---</td>
</tr>
<tr>
<td>0000-0100</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>15170; 13695; 5985</td>
</tr>
<tr>
<td>0000-0200</td>
<td>WSHB, U.S.A.</td>
<td>---</td>
<td>13760; 9850; 9410</td>
</tr>
<tr>
<td>0000-0200</td>
<td>WCWR, U.S.A.</td>
<td>---</td>
<td>15590</td>
</tr>
<tr>
<td>0030-0130</td>
<td>HCJB, Ecuador</td>
<td>---</td>
<td>15230</td>
</tr>
<tr>
<td>0035-0300</td>
<td>HCJB, Ecuador</td>
<td>---</td>
<td>15155; 11795; 9745</td>
</tr>
<tr>
<td>0100-0130</td>
<td>R. Japan</td>
<td>Reg svce 17825; 15195</td>
<td>---</td>
</tr>
<tr>
<td>0100-0200</td>
<td>R. Japan</td>
<td>Gen svce 59605</td>
<td>---</td>
</tr>
<tr>
<td>0100-0200</td>
<td>R. Moscow, U.S.S.R.</td>
<td>NAm svce 11850Bu; 9720Bu; 9665</td>
<td>---</td>
</tr>
<tr>
<td>0100-0300</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>11720; 9505; 5985</td>
</tr>
<tr>
<td>0130-0140</td>
<td>V. of Greece</td>
<td>---</td>
<td>11645; 9420; 9395</td>
</tr>
<tr>
<td>0200-0300</td>
<td>R. Moscow, U.S.S.R.</td>
<td>NAm svce 11850Bu; 9720Bu</td>
<td>---</td>
</tr>
<tr>
<td>0200-0600</td>
<td>WCWR, U.S.A.</td>
<td>---</td>
<td>7520</td>
</tr>
<tr>
<td>0230-0300</td>
<td>R. Sweden</td>
<td>---</td>
<td>15295; 11705</td>
</tr>
<tr>
<td>0300-0330</td>
<td>R. Japan</td>
<td>Reg svce 21610; 17825</td>
<td>---</td>
</tr>
<tr>
<td>0300-0400</td>
<td>R. Moscow, U.S.S.R.</td>
<td>NAm svce 11850Bu; 9720Bu; 9530</td>
<td>---</td>
</tr>
<tr>
<td>0300-0500</td>
<td>HCJB, Ecuador</td>
<td>---</td>
<td>15155; 11795</td>
</tr>
<tr>
<td>0300-0600</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>9505; 6065; 9585</td>
</tr>
<tr>
<td>0310-0327</td>
<td>Red Cross, Switz.</td>
<td>---</td>
<td>12035; 9865; 9725; 6135 -- May 1, May 4, May 29, Jun 1, Jun 26, Jul 3, Jul 31, Aug 3</td>
</tr>
<tr>
<td>0340-0350</td>
<td>V. of Greece</td>
<td>---</td>
<td>11645; 9420; 9395</td>
</tr>
<tr>
<td>0500-0700</td>
<td>HCJB, Ecuador</td>
<td>---</td>
<td>15155; 11795; 9745; 6230</td>
</tr>
<tr>
<td>0600-0800</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>6065; 5985</td>
</tr>
<tr>
<td>1000-1100</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>5950</td>
</tr>
<tr>
<td>1100-1200</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>11580; 5950</td>
</tr>
<tr>
<td>1200-1500</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>17750; 13695; 11580; 6015; 5850</td>
</tr>
<tr>
<td>1200-1630</td>
<td>HCJB, Ecuador</td>
<td>---</td>
<td>17890; 15115</td>
</tr>
<tr>
<td>1215-1315</td>
<td>R. Korea, S.Korea</td>
<td>---</td>
<td>9570</td>
</tr>
<tr>
<td>1235-1245</td>
<td>V. of Greece</td>
<td>---</td>
<td>17535; 15630; 12105</td>
</tr>
<tr>
<td>1300-1400</td>
<td>R. Moscow, U.S.S.R.</td>
<td>Vld svce 17710; 17790; 15560; 15480; 15460; 11840Cu</td>
<td>---</td>
</tr>
<tr>
<td>1300-1500</td>
<td>WCWR, U.S.A.</td>
<td>---</td>
<td>15690</td>
</tr>
<tr>
<td>1300-1600</td>
<td>R. Canada Int'l</td>
<td>Su</td>
<td>17820; 11955</td>
</tr>
<tr>
<td>1400-1500</td>
<td>R. Moscow, U.S.S.R.</td>
<td>Vld svce 17810; 15560; 11840Cu; 9825; 9540</td>
<td>---</td>
</tr>
<tr>
<td>1500-2400</td>
<td>WCWR, U.S.A.</td>
<td>---</td>
<td>15690</td>
</tr>
<tr>
<td>1530-1600</td>
<td>R. Sweden</td>
<td>---</td>
<td>21500; 17880</td>
</tr>
<tr>
<td>1600-2300</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>17885; 13695; 11830; 11580</td>
</tr>
<tr>
<td>2000-2100</td>
<td>R. Moscow, U.S.S.R.</td>
<td>Vld svce 11840Cu</td>
<td>---</td>
</tr>
<tr>
<td>2100-2200</td>
<td>R. Moscow, U.S.S.R.</td>
<td>Vld svce 11840Cu</td>
<td>---</td>
</tr>
<tr>
<td>2200-2300</td>
<td>R. Moscow, U.S.S.R.</td>
<td>NAm svce 11738Bu</td>
<td>---</td>
</tr>
<tr>
<td>2200-2400</td>
<td>V. of UAE</td>
<td>---</td>
<td>11985; 9595; 6170</td>
</tr>
<tr>
<td>2300-2330</td>
<td>R. Norway Int'l</td>
<td>Su</td>
<td>15165</td>
</tr>
<tr>
<td>2300-2400</td>
<td>R. Moscow, U.S.S.R.</td>
<td>NAm svce 17700; 11750; 11738Bu; 9865; 9530</td>
<td>---</td>
</tr>
<tr>
<td>2300-2400</td>
<td>WYFR, U.S.A.</td>
<td>---</td>
<td>15170; 13695; 5985</td>
</tr>
</tbody>
</table>

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
The street was packed shoulder to shoulder. A band, one of several with dented unpolished brass, played the old, tired Sambas, 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 leoncino statement of a Church official, "The mixture of pagan and Christian customs is difficult to understand and more difficult to explain."

In 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 coherating the Easter Parade with the Feast of Aphrodite. Yet to the people, it's something old, ancestral, and a convienient 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 dieties, 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 heros, 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 prefered Rio or the Greneries 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.
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. WRTT 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 advertising things they can't buy in Cuba, our "information service" will have a hard time proving it's not counterproductive.
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 sinusoidal 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.

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 rather stubborn. Generally, they produce working frequencies rather than that of the noise. The crystal impedance is at a minimum and therefore the voltage across the crystal 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.

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.
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***Radiodifusión 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; Bras mx (433 4/10 Johnson-OK) (Bronowicz-MO) (Neff-FL)

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 O'Neill's new short story (4/6 Bronowicz-MO)
11945 2231 RCI SWLS' Digest: Code vs. No-Code (435 3/25 Caron-OK)
11955 1402 RCI CBC into "Sunday Morning" (434 3/25 Caron-OK)
13650 1806 RCI Bob Cadman with nx, forgot to switch to 13670 (333 3/13 Park-HI)
13720 0225 RCI Interview with Indian politician (333 3/30 Brown-IL)
15322 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 Foro 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-OK)
4840 0131 R Interocoeana 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-OK)
9745 0200 HCJB EE; "Musica del Ecuador" vocals and instrumentals (222 3/11 Brown-IL)(Stringer-NZ)
11795 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)
9530 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, Newsline (444 3/21 Brown-IL)
11740 0102 RN EE; "Rembrandt Express" (444 3/31 Westenhaver-QU)
11890 1053 RN "Happy Station" (544 3/15 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 accordion and strings (222 3/29 Thornton-NJ)
WYFR "Science Scripture, and Salvation" (444 4/14 McCants-AL)
5955 0007 VOA China on favored nation status (444 3/31 Brown-IL)
5960 0233 VOF C Program changes, birthday wishes (333 3/24 Brown-IL)
9850 0145 WCSS Om IDs broadcast to Africa (444 3/26 Langlois-FL)
11830 2030 WHRI "Unshackled" followed by mx (454 4/15 McCants-AL)
15120 1036 VOA "Tuesday Morning" (222 3/27 Park-HI)
15154 0045 WINB OM ID, Organ mx (444 3/9 Langlois-TN)
15160 2345 VOAS SS; nx of Paraguay and Mexico, Supreme Court (555 3/16 Robinson-TN)
15185 2045 WHRI "20th Century Reformation Hour" (454 4/15 McCants-AL)
15560 1725 VOF C CC lesson (444 3/31 Westenhaver-QU)
17775 1725 KVOK 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-II)
17845 2222 WYFR "Mainways and Byways," "Mailbag Time" (333 3/25 Brown-II)
17845* 2250 VOF C 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 WCSS 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,
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

9430 0429 RT EE; IS, OK w/ s/on (232 4/6 Johnson-IL)
9760 2307 RT EE; rpt on the wid population, weightlifting team (333 3/12 Brown-IL)

11825 0235 RT EE; mx on YugO., ID @ 0238, mx (333 4/1 Berri-GA)

**AUSTRIA**  Radio Austria International

9875 0130 RAI EE; Rigler wants change in Austria election laws, spts (444 3/15 Brown-IL) 0134 EE; Greta Garbo's films (343 3/26 Carson-OX) 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)

**BELGIUM**  Belgische Radio en Televisie

9925 0035 BRT EE; Brussels Calling, commission on real estate make accommodations (232 3/16 Brown-IL)

12010 2300 BRT EE; IS, ID, Brussels Calling (322 3/25 Prath-FL) 2210 EE; DX item, folk mx (333 3/17 Levison-PA)

17955n 1240 BRT EE; rpt on Belgian nuns getting involved in get-rich-quick schemes, e.g. turning a convent into a luxury hotel (343 3/26 Westenhaver-Q)

25645 1250 R-T Belge de la Communaute Francaise PP; PP/EE lite pop mx, OK w/ ID (343 3/24 Prath-FL)

**BULGARIA**  Radio Sofia

11680 2220 BG EE; Bulg. religious folklore, FF pgm @ 2230 (333 3/31 Prath-FL)

11720 0333 BG EE; Scanning the Pages (444 3/30 Carson-OX)

11735 0335 N. Moscow relay EE; Parallels about business ventures in the U.S.S.R. by Canadian firms (444 3/11 Westenhaver-QU)

15330 2150 BG 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-OX) 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 (555 3/22 Fraser-MA)

7345 0345 RP EE; mailbag, rkr mx (434 3/24 Carson-OX)

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-OX) 0332 GG; flower stamps, mx (444 3/18 Levison-PA)

13715 2300 RP ID, inter-programme w/ multi-ling. mx (444 3/1 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)
11765 0635 RF EE; nx, TL ancor (343 4/6 Johnson-IL)
15105 2310 RF EE; Compass North, Europe 1992, // 11755 (444 3/31 Prath-FL) 1520 EE; country 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; tik on 1040 war w/ U.S.S.R. (443 3/14 Hart-MX) 1312 EE; cross country skiing World Cup (333 3/21 Garahan-LA)
17800 0934 RF EE; nx, Pia. press on Lithuanian situation (fr-gd 3/21 Famularo-Japan)

FRANCE

Radio France International
6320 1010 4IPR New Zealand EE; R. Zeal. DJ, pop/rock mx, ID, address in France (333 3/21 Willers-Switzerland)
6321 1107 R. Waves Int'l EE; German DJ, Paul McCartney, "This is R. Wave Int'l," QSB (333 4/3 Willers-Switzerland)
15195 1230 RFI, wld nx (343 3/21 Garahan-LA)
17620 1600 RFI EE; nx, features on Southern Afr (444 4/2 Valentine-CAL) 1715 FF; mx w/ FF anmts (444 4/6 Reeves-OK)
17650 1244 RFI EE; rpt on VAL automatic train control system invented in France by Matra & sold all over the world (343 3/26 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/TL w/ wld nx (pr-fr 3/25 Famularo-Japan)

GERMAN DEMOCRATIC REPUBLIC

Radio Berlin International
5965 0522 RFI EE; letters from listeners, mostly on reunification (433 3/26 Janusz)
6080 0126 RFI EE; implications of unification (222 4/9 Cichorek-MN)
13610 0521 RFI EE; press review on newly-independent Namibia (322 3/27 Park-HI)
15125 0520 RFI EE; U.S. & U.S.S.R. underground nuclear test (343 3/18 Roupe-WV)
21465 1145 RFI EE; Give Peace A Chance pgm (242 3/31 Prath-FL)

GERMANY FEDERAL REPUBLIC

Deutsche Welle
3995 0241 DW GG; OM w/ tik, GG mx (433 3/4 Bishop-NY)
6085 0145 Bayerischer Funkfunk GG; soft vocals, 0200 ID, nx about Hung. & S. Afr. (433 4/9 Cichorek-MN)
6329.5 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; country on E. Germ. elections (333 3/18 Brown-IL)
11815 2145 R. Free Europe ERR; ID, tik (343 4/6 Johnson-IL)
11865 0412 DW EE; Nelson Mandela's release, // 9650 (433 2/12 Park-HI)
12790 2245 DW GG; lite EZL nx, OM/TL announcers, // 6075 (454 3/11 Prath-FL) 2300 GG; OM, nx (444 3/15 Valentine-CAL)
15435 $0700 DW AA; IS, AA/GG ID's, freqs, AA mx, TL w/ tik (fr-gd 4/3 Famularo-Japan) 0657 AA; ID "Va habat...DV...arabiy," 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 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/ tik, Greek mx (444 3/23 Willers-Switzerland)
11595 1430 Thessaloniki Greek; 2 OM in discussion, song from Duran Duran, Greek mx, tik 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 VOG relay Amharic; mx, nx headlines (222 4/7 Park-HI)
11760 0215 VOG relay EE; IS, EE ID, start of pgm in Dutch (333 3/30 Brown-IL)

HUNGARY

Radio Budapest
9585 1130 EE EE; DX show, DX catches from members in U.K. & Africa, new clandestine magazines (555 3/3 Willers-Switzerland)
9835 0040 EE EE; Hungarian elections (333 3/27 Brown-IL) 0031 EE; nx (333 4/2 Bronowicz-MN)
<table>
<thead>
<tr>
<th>Country</th>
<th>Region</th>
<th>Frequency</th>
<th>Time</th>
<th>Program Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTUGAL</td>
<td>Radio Portugal</td>
<td>13700</td>
<td>2215</td>
<td>&quot;This is the V. of Europe,&quot; address in Italy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11660</td>
<td></td>
<td>&quot;Ich Budapest, nx, // 9835 (333 3/10 Prath-FL)&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2215</td>
<td></td>
<td>Hungarian; IS, ID</td>
</tr>
<tr>
<td>MALTA</td>
<td>Voice of the Mediterranean</td>
<td>7110</td>
<td>1959</td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2058</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9765</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11925</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15425</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td>NETHERLANDS</td>
<td>Radio Nederland</td>
<td>6020</td>
<td>0030</td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9815</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11600</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13700</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15560</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21520</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td>NORWAY</td>
<td>Radio Norway International</td>
<td>17705</td>
<td>1608</td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25730</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td>POLAND</td>
<td>Radio Polonia</td>
<td>7270</td>
<td>2250</td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9675</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td>PORTUGAL</td>
<td>Radio Portugal</td>
<td>6085</td>
<td>0330</td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6130</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9600</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15215</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Radio Romania International</td>
<td>5990</td>
<td>0240</td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9510</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9570</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9690</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11940</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15250</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17745</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17850</td>
<td></td>
<td>&quot;I'm going to talk to you about the American Diary&quot;</td>
</tr>
</tbody>
</table>
SPAIN Radio National de España
9630 0015 REE 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 ppm (434 2/25 Stringer-New Zealand)
11875? 0040 REE EE; concerts of French singer in Madrid (554 3/27 Saharan-LA)

SWITZERLAND Radio Switzerland
9610 2320 SWR II; technical questions from listeners, // 9885 (454 3/10 Prath-FL)
9685 0201 SWR II; forest fire continues in Switz. (343 3/26 Brown-IL)
12030 0258 SWR II; Swiss mx, Dateline, Swiss SW Merry-Go-Round (232 3/17 Park-HI)
12035 0200 SWR II; Lithuanian situation, Dateline (444 3/27 Brown-IL) 0220 EE; smoking & the Eur tobacco industry (444 3/30 Carson-DE)
13635 11000 SWR II; 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 (434 3/20 Neff-FL)
15430 1545 SWR II; TL w/ ID followed by FF ppm (444 3/20 Valentine-CA) 0046 EE; Dateline, Int'l Woman Conf in Lucerne (343 3/15 Park-HI)
15525 2105 SWR II; firey ferry, Sunday Supplement (434 4/6 Cichorek-NJ) 1856 GG; mx, QRM de FF lang station (222 3/25 Carmen-OK)
17630 1545 SWR II; discussion w/ channel 1 pgms, Swiss mx (433 4/2 Valentine-CA)
25680nf 1330 SWR II; 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; ppm on Leopold Stokowski (655 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; mx, co-channel Moscow, hst 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 plantists (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)
9605 0050 VR EE; Viewpoint, Litt. situation, ethnic Albania (444 3/28 Brown-IL)
9645 2100 VR EE; mx of Lithuania, tkl of Vatican E. pgms (555 3/17 Robinson-TK)
11725 0310 VR EE; Vatican Opinions, capital punishment in the U.S. (433 3/28 Johnson-IL)
11795 0215 VR SS; SS mx, ID, to LAm (433 3/11 Brown-IL)
11790 0105 VR EE; fire in NY kills 87 people (333 3/26 Brown-IL)
17710 1658 VR FF; IS; African drums, ID "Ici E. 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 FY EE; comtry about Yugo. & Albania, intvw w/ Yugo. president (534 3/1 Willers-Switzerland)
6005 0115 FY EE; political comtry on E. Germ. elections (333 3/18 Roups-WY)
7215 2200 FY EE; ID, mx, comtry on East Bloc reforms (333 3/10 Prath-FL)
6960 2206 FY EE; Yugo. as an associate member of the EBC (434 3/6 Cichorek-NJ)
11735 0030 FY FF/EE; FF ppm w/ mx & comtry (434 3/24 Carson-OK)
15105 2104 FY EE; nx, rpt on Kosovo situation, co-channel AA station--Morocco? (333 3/26 Westenhaver-QU)
17740 1216 FY EE; Pop Flash profiling local OM pop singer, s/off anat meet this freq // 21555 & 25795 (134 3/31 Westenhaver-QU)
25795 1212 FY EE; tk about Yugo.'s relations w/ the EBC (232 4/1 Westenhaver-QU)

4930 0049 RM (052)-Ashkhabad (ILG): RR; M/W vocals, arias, instr. mx, @ 0059 IS, TP, ID @ 0100 (333 3/23 Cihorek-NJ)
5925 2126 R. Tallinn-Tallinn (ILG): Estonian; instr. mx, partial ID, mx, mx pgm, ORM de co-chan. RM (222 2/4 D'Angelo-PA)
6030 2140 RM-Minsk (ILG): EE; discussion on Byelorussia (322 3/27 Thornton-NJ)
7150 0045 RR-Lvov (ILB): 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 RV-Vepatoriya (ILG): EE/Armenian; ID, nx, freqs, mx, 0359* (444 1/28 Karcheski-MA) (Levison-PA)
7400 2337 RV-Vepatoriya (ILG): EE; flute mx, review of musical events, ID, "Good Bye and Good Luck" by W, IS @ 2529 (444 1/24 Cihorek-NJ)
9470 2116 RM-Frunze (ILG): FF; mailbag pgm (343 3/11 Westenhaver-QU)
9540 1345 RM-Petrovskolv (ILG): EE; W ID, end of "Focus on Asia & Pacific", rock (333 4/4 -ed)
9540 1220 RT-Tashkent (ILG): EE; cttry on foreign minister's visit to Namibia (343 17 Rouge-WV) (Robinson-TN)
9685 2333 RM-Lvov (ILB): EE; "Outlook" - rrt on Polish reaction to German reuni-fi-cation, ID (444 3/27 Brown-IL) (Fraser-MA)
9825 0605 RM-Petrovskolv (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-Ivanofroenkovsk (ILG): EE; "Vasily's Weekend" - Lambada & jazz mx, Vasily Strelkinev sounding wilder than ever! (444 3/11 Westenhaver-QU)
11785 1330 RT-Tashkent (ILG): EE; IS, ID (322 4/2 Reeves-OR) (Cihorek-NJ)
11800 0058 RM-Dushanbe (ILG): EE; RMW ID, s/off mx (242 3/19 Fraser-MA)
11835 0400 RM-Kenga (ILG): CC; IS, s/on w/ M ID, tlk (pr 3/27 Fanularo-JP)
11850 2020 RM-Ryazan (ILG): EE; "Africa Weekly" pgm, ID (343 4/1 Rouge-WV)
11870 1353 RSPAP-Khabarovsk (ILG): EE; RR pop mx, M ID, sked, RM IS, into CC pgm (322 3/28 -ed)
11960 1958 RM: AR; IS to 2000, M s/on amt, "Huna Moscow" ID, into nx (243 3/30 Westenhaver-QU)
12005 0320 RR; EE; tlk abt aircraft in the Ukraine (333 3/22 Carson-OK)
12010 1659 RM-Petrovskolv (ILG): EE; ID & amt, mx, Spassky bells & mx, ORM de RFI on 12015 (322 3/19 Park-HI)
12060 2302 RV-Vepatoriya (ILG): EE nx abt Lithuania, ID's (232 3/23 Cihorek-NJ)
12060 2326 RV-Vepatoriya (ILG): EE; IS, M ID, nx (322 4/6 -ed) (Stringer-NI)
12065 1103 RM-Khabarovsk (ILG): Jj; M nx, ID @ 1110 "Kochiwa R. Mosuko-bo hoso desu", W w/ feature, !: 5905 (333 4/9 Park-HI)
12065 1605 RSPAP-Orsha (ILG): Azerbaijan; unfamiliar long tlk, ME style mx, fast paced chanting (not Koran) (fr 3/30 Fanularo-JP) (Ralph made this log as R. Tashkent (!) in Uzbek, but this is RSPAP according to the D89 ILG. -ed)
12065 1630 RV: Armenian; on after above log, IS, M ID "Yerevan E Khosolam", nx (fr 3/30 Fanularo-JP) (Not listed, but probably same site as above -ed)
12070 0300 RSPAP-Vepatoriya (ILG): Creoles s/on amt, nx (444 3/11 Westenhaver-QU)
12070 0731 RM (D51)-Vladivostok (ILG): Orbita live coverage of Gorbachev speech, 1/2 sec. ahead of CNN's coverage, !: 12040 (333 3/15 Park-HI)
13465 0226 RM: RR; rock mx, Mayak IS @ 0229, TC, nx (444 3/20 Westenhaver-QU)
13665 0550 RM-Petrovskolv (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 RV: RR; Mayak (?) pgm of light mx, Kremlin bells, soviet anthem, M/W tick, more light mx (fr 3/30 Fanularo-JP)
15150 1000 RM-Moscow (ILG): EE; Midnight in Moscow, Kremlin bells, ID & nx (343 4/7 Rouge-WV)
...
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

15160 0730 RTV Algerienne: FF/EE: Monologue in FF by W; mx 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)

ANGOLA

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 Vaughan (323 4/11 Johnson IL) @ 0306 in EE w/ "African's most wanted criminal is flown in from Brazil; British prison rioting (433 4/11 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 America (322 3/2 Westenhaver-FQ)
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 prog "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 annct "...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 3/6 Bishop-NY)
CAMEROON
4850 2137 CTV: FF: W tx while African mx is being played (433 3/9 Bishop-NY) @ 2120 in FF w/fast African mx followed by 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-gahira" 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 @ 2130; nx read by M. Fanatas-tic reption! (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 3/725 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) @ 2310 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-NV)

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 (122 3/8 Bishop-NY)
6035 0605 VOA: EE: World nx (343/11 Johnson-IL)
9540 0600 VOA: EE: Nx inc former Romanian leader Ceasceau's brother is to stand trial in Romania, ID (222 3/10 Brown-IL)
11785 0435 VOA: EE: "VOA Tuesday Morning" (422 3/27 Park-HI)
15600 2045 VOA: 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 Westenhaver-PQ)

15375 1645 R. Nederland: EE: "Newline"; "Airtime Africa" on preserving & promoting traditional African mx; broadcast moves to 6020 on 3/25 (423 3/23 Park-HI)

**MALI**

4880 0330 Deutsche Welle: 7255 3290 2329 SWABC: 15205 2101 VOA: 4845 0654

11715 0301 R. Beijing: EE: "Current Affairs" inc disc abt National Flag Protection Law (544 3/14 Fraser-MA)

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/ID 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 Letterbox" (333 3/18 Berri-CA)

17705 0006 R. Beijing: EE: World and National mx; ID @ 0015 into prog "Press Clippings" abt local nx stories--this freq and //15100 had slightly tinier 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's "Mauritania" into mx, @ 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-Azerbaijanian 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 7255 R. Nigeria: EE: African mx, no ID given (221 3/10 Bishop NY)

**RWANDA**

15270 2155 Deutsche Welle: GG DW IS heard under co-channel Taiwan, sked calls for *2200 into GG prog (Pr-unuseable 3/29 Pamularo 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 Stranger", 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 mx de Namibia (434 3/71
Carson-OK)

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

9615 0203 R. RSA: EE: Disc abt AM radio: (343 3/18 Neff-FL) © 0200 w/mx
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. South Africa: AF: Nice piano sonata; © 0442 amnts by two
different M annors; into hymn followed by religious tx (232
3/11 Westenhaver-PO)

11835 0230 R. RSA: 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 & mx (433 4/6 Park-HY

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

11935 0200 R. RSA: EE: World mx; reception vy poor (211 3/16 Stringer N2)

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-PO)

21590 1445 R. RSA: EE: TC, ID, "African Music Scene" mx © 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 Famulario-Japan)

17745 1735 Voice of Palestine: AA: via Algeria, M tx abt Israel and Pales-
tine, 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 what 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 SPEEDXer 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 propagate. (Thanks
Bill Westenhaver and Tim Johnson for tip)

Today 4-21 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!
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**  
**VL6K Katherine**  
**VQ Brisbane**  
**Radio Australia**  

<table>
<thead>
<tr>
<th>Time</th>
<th>Frequency (KHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2310</td>
<td>1123</td>
</tr>
<tr>
<td>4835</td>
<td>0810</td>
</tr>
<tr>
<td>5025</td>
<td>2133</td>
</tr>
<tr>
<td>9660</td>
<td>1601</td>
</tr>
</tbody>
</table>

**VL8Q: Lcl weather forecast; IC (222 3/21 Reeves-OR)**

**BANGLADESH**

**Radio Bangladesh**  

<table>
<thead>
<tr>
<th>Time</th>
<th>Frequency (KHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15040nf</td>
<td>1255</td>
</tr>
<tr>
<td>15560nf</td>
<td>1133</td>
</tr>
</tbody>
</table>

**CAMBODIA**

**Voice of the People of Cambodia**  

<table>
<thead>
<tr>
<th>Time</th>
<th>Frequency (KHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4909.7a</td>
<td>1402</td>
</tr>
</tbody>
</table>

**CHINA**

**Central People's Best Stn**  
**SRI relay**  
**Radio Beijing**  

<table>
<thead>
<tr>
<th>Time</th>
<th>Frequency (KHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2340</td>
<td>1120 FUSIAN PBS: CC: w tlks (454 3/23 Kunkel-CA) @ 1133 w/w tlks (222 3/16 Stringer-NZ)</td>
</tr>
<tr>
<td>2445</td>
<td>1110 JIANGXI PBS: CC: w/w tlks; sounded like format of CPBS-1 service (343 3/23 Kunkel-CA)</td>
</tr>
<tr>
<td>3220</td>
<td>2102 (t)CPBS-1: CC: CC tlk; orchestral/classic mx; no positive ID (342 5/17 Williams-SM)</td>
</tr>
<tr>
<td>3950</td>
<td>1512 (t)QINGHAI PBS: CANTONESE?: M/w w/JJ lessons (of all things!); seemed 7/4940 (322 3/13 Park-HI)</td>
</tr>
<tr>
<td>4865</td>
<td>1440 GANJU PBS: CC: w tlks; mx (222 3/25 Reeves-OR)</td>
</tr>
<tr>
<td>4990</td>
<td>1414 HUNAN PBS: CC: (p) Comedy show w/2M (343 3/25 Reeves-OR)</td>
</tr>
<tr>
<td>5020</td>
<td>1424 JIANGXI PBS: CC: Mx w/and w ancors (242 3/25 Reeves-OR)</td>
</tr>
<tr>
<td>6933</td>
<td>2233 HS: SS: FX of trad CC mx; W ID @ 2237 (322 3/31 ed.)</td>
</tr>
<tr>
<td>9535</td>
<td>1149 HS: CC: W CO classical vols w/m ancors; ID/theme mx @ 1155 (333 3/30 Cichorek-NJ)</td>
</tr>
<tr>
<td>9920</td>
<td>2046 RB: EE: Tk on primary education/11literacy of women in 3rd World (444 3/16 Leader-IR)</td>
</tr>
<tr>
<td>11500</td>
<td>1552 (t)TAIAN-2: CC: M world mx to 1555; distorted inst mx; &quot;Ode to Joy&quot; @ 1600; mix of M/w tlk and mx; many ments Taiwan but no definite ID (343 4/5 Thompson-CA)</td>
</tr>
<tr>
<td>11650</td>
<td>1305 HS: EE: M mx; enty: mx; /11660 (232 3/31 Prath-FL)</td>
</tr>
<tr>
<td>11695</td>
<td>1310 SH: EE: SH IS; EE frq amnt ment this frq for 6Asia (232 3/31 Russell-MI)</td>
</tr>
<tr>
<td>17855</td>
<td>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/&quot;Idioms and Their Stories&quot; (333 3/28 ed.) (This frq replaces 9665 at these times.--ed.)</td>
</tr>
</tbody>
</table>
GUAM
11650 1500 KTWR: EE: IS; "KTWR Agana Guam" ID; into rig px abt Romans, chapter 6 (242 4/3/14 Russell-MI) @ 1600 w/ID and rig mx (444 4/6 Reeves-OK) @ 1623 w/Bible reading; tlk abt Jerusalem; 1637* (322 3/10 Bishop-NY)

11805 0930 KTWR: EE: "Children's Bible Hour"; rig mx; ID @ 1000 (423 7/2 Scott-CA) (welcome to the column, Val-et-al.) @ 1000 w/ "Pacific DX Magazine"; strong hot (434 3/16 Stringer-NZ)

11980 1640 KSDA: EE: "DX Asianwaves" px (322 3/10 Bishop-NY)

15055nf 2237 KTWR: IN: Long mix of M/W txs 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 KONG
17830 0030 BBC: EE: EE lesson abt Mr. Lovejoy fixing up his house (242 378 Wright-NF)

INDIA
All India Radio

7412 2204 AIR: EE: M nx; ID @ 2205 (444 3/14 Karcheski-MA) @ 2205 w/ nx; cmyt: sports; //11620 (243 3/24 Pratth-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 nx/songs; AIR ID @ 1428 .. 1500* (Fair 3/17 Famularo-JP) @ 1450 w/suboont mx; 1500*: HTTY QRN; //11620 (322 3/17 Roupe-WV)

15110 1007 AIR: EE: NX; ID: cmyt on India's foreign relations (333 3/18 Neff-FL) @ 0055 w/ 1ol classical vols; into nx (222 3/22 Thornton-NJ) @ 0050 w/film mx; @ 0055 cmyt on Sri Lanka; @ 0059 brief ID and w/ nx; signal deteriorating (333 3/31 ed.)

15365 1132 AIR: THAI: W tlk ending w/mnt AIR: film mx cut; several Thai-style pop songs; @ 1159 W "Thinil All India Radio"/closing anmt: 1200* (343 4/2 ed.)

INDONESIA
Radio Republik Indonesia

3223 1320 (t)HRI MATARAM: IN: M ancr w/typical Indopops; no ID hrd (353 3/31 Kunkel-CA)

3945 1400 HRI DENPASAR: IN: Light mx; then into National nx (353 3/31 Kunkel-CA)

4607.4 ???? HRI SERUI: IN: W Indo nx; IN lagu (songs); M ID @ 1001 (454 4/7 Sparks-CA)

4874.6 1005 HRI SOHONG: IN: Lol 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 HRI NABIRE: IN: AA-style vocals; ID @ 0930; some CM QRM (232 4/7 Sparks-CA) (Welcome, Bill: nice loggings! -ed.)

IRAN
Voice of the Islamic Republic of Iran

15084 0550 VORT: SS: Fx of nx w/M ancr (353 4/6 Johnson-IL) @ 1643 in (p)PARSI w/M/W txs ment Tehran @ 1700 Mideast mx and w brief tlk to 1702* (353 4/5 Thompson-CA)

IRAQ
Radio Baghdad

9515 0200 RH: EE: Exotic mx; ID (333 4/10 Johnson-IL) (Good logging, Tim! This one's been very hard to catch lately! -ed.)

11720 2219 RH: EE: Tlk abt "Geology for Arabs" course at University of Baghdad; ID @ 2211 (343 4/1 Chichorek-NJ) (Is that something about "between Iraq and a hard place"? -hi! -ed.)

ISRAEL
Kol Israel

9435 0007 KL: EE: Tlk abt forming new coalition government; some QRM de VO Greece (454 3/18 Leader-Il) @ 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 KL: 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 KL: EE: Nx of Iraq's boasts abt chemical weapons (444 4/3 Chichorek-NJ) @ 0117 w/pix describing colors of Israeli desert rocks/dirt/sand (455 3/9 Kunkel-CA)

(I hope that everyone's noticed that all boats 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.)
<table>
<thead>
<tr>
<th>Country</th>
<th>Frequency</th>
<th>Time</th>
<th>Station</th>
<th>Transmission Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>JORDAN</td>
<td>9560</td>
<td>2356</td>
<td>Radio Jordan</td>
<td>AA: Mideast vol; 2 in dialogue: &quot;Huna Amman&quot; @ 0000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(444 3/17 Cichorek-NJ) @ 2247 w/AA @ w/tlk between cuts; then tlk abt King Hussein (444 3/24 Wright-NF)</td>
</tr>
<tr>
<td>KIRIBATI</td>
<td>14917.7</td>
<td>0650</td>
<td>Radio Kiribati</td>
<td>KK: EB/KIRIBATI: &quot;World of Science&quot; px de DJ; W in vern tx w/&quot;ment world over mx&quot; or back on since 2/26 (323 121 3 14 Park-HI) @ 0635 w/EH tlk abt Save the Children Foundation (RA transcription px)? (252 4/6 Johnson-IL) (Very nice!!-ed)</td>
</tr>
<tr>
<td>KOREA, D.P.R.</td>
<td>2850</td>
<td>1129</td>
<td>Korean Central Bst Stn Radio Pyongyang</td>
<td>KGBS: KK: Light heroic opera w/ host; then M begins &quot;barking&quot; in strident KK (454 3/23 Kunkel-CA)</td>
</tr>
<tr>
<td>KOREA, REPUBLIC OF</td>
<td>6095</td>
<td>1335</td>
<td>HCI relay Radio Korea</td>
<td>RCI: JJ: M/4 tlk in JJ (444 4/2 Reeves-OB)</td>
</tr>
<tr>
<td></td>
<td>6150</td>
<td>1313</td>
<td></td>
<td>RCI: CC: M/4 tlk in CC (333 4/2 Reeves-OB)</td>
</tr>
<tr>
<td></td>
<td>9515</td>
<td>1601</td>
<td></td>
<td>RKT: FF: Theme mx; M ID &quot;Govorit R. Korea...&quot;/px preview; nx (433 3/28 Park-HI)</td>
</tr>
<tr>
<td></td>
<td>9700</td>
<td>1330</td>
<td></td>
<td>HCI: JJ: M EE/W FP/W JJ ID's w/ opening mx; px &quot;Canada Today&quot;; 7/6095 (via HK); 5220, 9535, 11795 via China (555 4/5 Matsushita-JP)</td>
</tr>
<tr>
<td>KUWAIT</td>
<td>13610</td>
<td>2040</td>
<td>Radio Kuwait</td>
<td>RK: EE: Jazz mx px; ID (444 3/20 Neff-FL)</td>
</tr>
<tr>
<td></td>
<td>13620</td>
<td>2002</td>
<td></td>
<td>RK: AA: In-studio discussion w/input from M on phone; AA vol; 4/12 W w/amt w/ID; 7/15495, 15505 (444 3/28 ed.)</td>
</tr>
<tr>
<td>LEBANON</td>
<td>6280.3</td>
<td>0415</td>
<td>Voice of Lebanon</td>
<td>(t)YOH: ??: Continuous soft mx; tentative, but what else could it be? (222 3/29 Johnson-IL)</td>
</tr>
<tr>
<td></td>
<td>6549.5</td>
<td>2255</td>
<td></td>
<td>VOL: AA: Mideast mx; ID @ 2315 and into mx; poor signal (232 3/24 Roupe-WV)</td>
</tr>
<tr>
<td>MARIANA ISLANDS</td>
<td>KPBS</td>
<td>KPHI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>------</td>
<td>------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9465 1526</td>
<td>KPBS: RR: RR/slow EE addresses for Russian Radio Bible Institute in San Francisco; ID ment &quot;KPBS&quot; (222 3/13 Park-HI)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9530 1400</td>
<td>KPHI: EE: ID; mx; interview w/Saio Paulo Christian (242 3/11 Wight-NF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11650 1253</td>
<td>KPBS: RR: Christian message ment Czechoslovakia; ID &quot;KPBS Salam@ 1300&quot;; hymns (353 3/24 Wight-NF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15285 1315</td>
<td>KPHI: EE: &quot;One Norway Street&quot; px (434 3/16 Stringer-NZ)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17780 0540</td>
<td>KPHI: EE: &quot;Letterbox&quot;: unID co-chan QRM (333 3/16 Stringer-NZ)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MONGOLIA**

**Radio Ulan Bator**

| 4850 1555 | RUB: MONGOLIAN: Oriental mx; W tlk (sked?); anthem: 1600*; (232 3/16) | |
| 4995.0 1553 | RUB: MONGOLIAN: M/W tlk w/weird modulation (overflow yet clipped?); NA w 1557; //7263.6 (222 3/13 Park-HI) | |
| 12015 0909 | RUB: EE: Chimes; @ 0910 M ID/s on amnt; then M nx (222 3/24 Scott-CAG) | |

**NEW CALEDONIA**

**KPO Nouméa**

| 3355 1300 | RPQ: ??: M tlking, but not in EE (322 3/16 Stringer-NZ) (Was it in FP, Paul? ed.) | |
| 7170 0926 | RPQ: PP: M/W discussion; EZL song; 2 M discussion (fair 3/16 Paramoulo-JP) | |

**NEW ZEALAND**

Lots of logs of RNZI on 17680, from: Brown-IL; Carson-OK; Cichorek-NJ; Paramoulo-JP; Johnson-IL; Neff-FL; Roupe-NV; Seymour-NC; Wllers-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 7 kW as a spare, but the new one should be fixed by now.

**PAKISTAN**

**Radio Pakistán**

| 13665 1614 | HP: EE: End of M nx; "typewriter song"; @ 1615 M ID/frqs; then caty on India; //21480, 21740.1 (222 3/3 Cichorek-NJ) hrd on 13667.8 @ 1613 w/usual theme mx; into mx @ 1615 w/ID (234 3/7 Kunkel-CAG) | |

**PAPUA NEW GUINEA**

| 3275 1222 | R. SOUTH HIGHLANDS: EE/ID: M (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-CAG) | |
| 3365 1306 | R. MILNE BAY: PD: M nx; @ 1311 TC and into mx (444 3/16 Stringer-NZ) @ 1150 w/PN version of steel drums; M tlk ment Alotau and back to mx (454 3/23 Kunkel-CAG) | |

**PHILIPPINES**

**Radio Veritas Asia**

| 9520 1052 | RVA: CC: W tlk; M closing amnt w/tolling bell before/after; EE ID/amnt that VV px on 11790 de *1100; lxs 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: SWAHLI: M tlk: mx bridge; VOA African mx w/lots on S Afr topics (443 4/5 Thomson-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 ARABIA**

**Best 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.) | |

**SINGAPORE**

**BBC WS relay**

| 11730 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 ISLANDS**

**Solomon Islands Best Corp**

| 5020 0730 | SIBC: EE: Nx; ID; ads (141 4/8 Johnson-IL) @ 0750 w/Rock mx; ads: M DJ chat; mx @ 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) | |

**THAILAND**

Radio Thailand
9655 2303 HT: EE: W "You're listening to R. Thailand"; M px line-up/frq anmt; 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 12/30 Stringer-NZ) w 0550 w/rlg px "The World Tomorrow" w/address P.O. Box 127, Nuku'alofa, Tonga; then choral mx and tik 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 bestd one hour earlier for Summer Time.-ed.)
17880 2217 VOT: EE: "International Organizations and Turkey"; ID @ 2221; 7794 444 (34) 4/6 ed.

**UNITED ARAB EMIRATES**

VO UAE Abu Dhabi logged as follows: 9600 in EE by Brown-IL, Cichorek-NJ; 13005 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-MI and in EE by Carson-OK, Gaharan-LA (Welcome!-ed.), Reeves-OK, Russell-MI.

**VIETNAM**

Voice of Vietnam
9731.4 1420 VOV: (1)LAO: M song w/1cl string accompaniment; W soft vol; w brief anmt; 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: csty 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-PFL.

**CLANDESTINE**

3480 1406 VO NATIONAL SALVATION: KK: M tlks; heavy South Korean jamming: 774120 was also nearly unintelligible (211 3/4 Reeves-OR)
15100 1640 IRAN'S FLAG OF FREEDOM RADIO: PARSI: Long M tlk; frq anmt @ 1700 (344 3/23 Willers-SW) (Steven also furnishes a QSL addr for the station: Derafsh, 20 rue de Comorocet, 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 unit CC stn on 15124.5 kHz. It's a new SW relay from Taiwan, rebroadcasting BBC'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—Bill
AFRICA


LIBERIA/ VOA Relay: 17870 f/d cd in 39 ds. (Greer-NC).


NIGER/ ORTN: 5920 f/d ltr in 38 ds for a FF rpt & 2 ics. (Reese-DE).

SEYCHELLES/ FERA: 9590 f/d Beach cd w/ ltr & stickers in 52 ds for $1. (Willers-SW).


TANZANIA/ R Tanzania: 9685 p/d Map cd in 65 ds after 2nd f-up for ms (Evans-TN).

ASIA

BANGLADESH/ R Bangladesh: 11510 f/d Village cd in 298 ds. (Willers-SW)

CHINA/ RCI Relay: 11955 f/d DIY cd in 20 ds. (Ashimori-JN)


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 ics. (Johnson-ID).

PHILIPPINES/ VOA Relay: 17735 f/d cd in 20 ds. (Greer-NC).

SAUDI ARABIA/ BSKSA: 71530 f/d cd w/ sked & ltr in 69 ds registered.

SOUTH KOREA/ V/S Suliman A Al Samnan. (Matsushita-JN).


EUROPE

ALBANIA/ R Tirana: 9760 f/d Ruins cd w/ pin, map & info in 89 ds. (NC-Greer).


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 ics. (Hunt-FL).

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
- 2261.0
- 3123.0
- 5696.0
- 8964.0
- 11195.0
- 11201.0
- 15081.0
- 15087.0

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

- 2141.0
- 2261.0
- 3120.0
- 5692.0
- 8980.0
- 11198.0
- 15084.0
- 15086.0

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

5th District (Norfolk, VA):
- 2675.0
- 2702.0
- 5320.0

8th District (New Orleans, LA):
- 2683.0
- 2699.0
- 5320.0

11th District (Long Beach, CA):
- 2675.0
- 2694.0
- 2710.0
- 3382.0
- 5320.0

13th District (Seattle, WA):
- 2699.0
- 2707.0

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, 2686.0 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.... Nahhhhh! 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 | Marselles Radio | 2109 Tfc list | Conway-UK  
2182.0 | USB | Morocco | CNP | Casablanca Radio | 2109 EE/FF call & listen 2586 | Conway-UK  
2162.0 | USB | Morocco | VNO | USCG COMMSTAS | | Conway-UK  
2210.0 | 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  
2565.0 | RTTY | Chile | CCM | Magallanes Radio | 0117 850/50 | Moon-RSA  
2570.0 | USB | USA | NOY3 | Port Aransas, TX | 0618 USCG Short announcement | Symington-GH  
2716.0 | USB | USA | | WORLDWIDE USN FREQUENCY | | Conway-UK  
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 | PC6 | 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-NZ  
2863.0 | USB | S. Africa | | Honolulu VOLMET | 1055 | Stringer-NZ  
2965.0 | USB | Australia | | Sydney VOLMET | 1030 | Stringer-NZ  
3016.0 | USB | | | | | Conway-UK  
3229.0 | RTTY | USA | AFS | Omaha, NE | | Conway-UK  
3319.0 | CW | Scotland | MMJ | Glasgow Naval | 0147 850/75N: USAF AWS w/weather | George-MA  
3336.0 | USB | New Zealand | Unknown | Unknown | 0250 RN. V Marker | George-MA  
3345.0 | USB | New Zealand | BV [?] | North Island | 0905 Lands and Survey w/tfc in English | Stringer-NZ  
3357.0 | FAX | USA | NAM | Norfolk, VA | 0733 Malaysian Radio w/tfc in English | Stringer-NZ  
3372.0 | CW | Portugal | CTP | Oeiras Naval | 0530 120/576E | Yarborough-NC  
3860.0 | LSB | USA | WA3NAN | Greenbelt, MD | 0444 Portugese Navy. DE Marker. Better than 6389.0 kHz | Alexander-IA  
4003.2 | LSB | USA | | US ARMY MARS FREQUENCY | | Conway-UK  
4004.9 | CW | Unknown | K | USN MARS FREQUENCY | | Conway-UK  
4007.0 | USB | | | | | Conway-UK  
4022.0 | CW | USA | WHY912 | Mt. Weather, VA | | Conway-UK  
4025.0 | LSB | USA | | US ARMY MARS FREQUENCY | | Conway-UK  
4038.5 | USB | | | USN MARS FREQUENCY | | Conway-UK  
4056.0 | RTTY | Cameroon | TJK | Douala | | Conway-UK  
4066.1 | USB | | | WORLDWIDE USN FREQUENCY | | Conway-UK  
4125.0 | USB | USA | | LIMITED COASTAL FREQUENCY | | Conway-UK  
4221.4 | CW | Gibraltar | GYU | Gibraltar Naval | | Conway-UK  
4223.5 | CW | Malta | 9HD | Malta Radio | 0844 RN DE Marker | Conanway-UK  
4225.0 | CW | Mexico | XFM | Manzanillo Radio | 2131 V Marker | Conway-UK  
4231.0 | CW | Qatar | A7D | Doha Radio | 0522 CG Marker | Morby-NY  
4231.5 | CW | USSR | UVA | Unknown | 1656 DE Marker | Conway-UK  
4232.0 | CW | Martinique | FUF | Fort de France Naval | 2002 CG Marker | Conway-UK  
4232.5 | CW | Hong Kong | VP58 | Hong Kong Radio | 0105 French Navy. V Marker | Conway-UK  
4232.5 | CW | Portugal | CVTV | Lisbon Naval | 2146 DE VPS Marker | Conway-UK  
4234.0 | CW | Malaysia | 9MB | Penang Naval | 0843 Portuguese Navy. Wx mgs | Conway-UK  
4235.5 | CW | Spain | EDF | Aranjuez Radio | 2159 V Marker | Moon-RSA  
4236.0 | CW | USSR | UDR | Riga Radio | 1655 CG Marker | Moon-RSA  
4238.0 | CW | India | VTP4 | Visakhapatnam Naval | 1653 Indian Navy. V Marker | Moon-RSA  
4239.0 | CW | Israel | 4XO | Haifa Radio | 2204 CG Marker | Moon-RSA  
4239.0 | CW | Malaysia | SB6 | Penang Naval | 2223 V Marker | Moon-RSA  
4240.0 | CW | Malaysia | S6H | Pinang Naval | 1651 Malaysian Navy. V Marker | Moon-RSA  
4242.5 | CW | S. Africa | Z5D43 | Durban Radio | 2230 CG Marker | Conway-UK  
4242.5 | CW | Germany | YSM | Ruegen Radio | 2211 V Marker | Hunt-FL  

---

**Notes:**

- UTC REMARKS: Various remarks related to UTC timing.
- CONTRIBUTOR: Names of contributors.

---

**Part 2:**

- Containing entries for frequencies 8000.0 - 30000.0 kHz.
- Additional notes and remarks as listed in the main document.

---

**Part 3:**

- Contains listings for frequencies 30000.0 - 300000.0 kHz.
- Further details and specific remarks provided for each entry.

---

**Part 4:**

- Covers frequencies 300000.0 - 500000.0 kHz.
- Includes specialized notes for high-frequency bands.

---

**Part 5:**

- Entries for frequencies 500000.0 - 3000000.0 kHz.
- Detailed descriptions and remarks for extreme bands.

---

**Part 6:**

- Provides comprehensive listings for frequencies 3000000.0 - 5000000.0 kHz.
- In-depth analysis and remarks for the highest frequencies.

---

**Part 7:**

- Final part covering frequencies above 5000000.0 kHz.
- Offers comprehensive listings and remarks for the upper spectrum.

---

**Part 8:**

- Dedicated to frequencies for military and emergency communications.
- Includes detailed information and remarks for special usage.

---

**Part 9:**

- Contains additional remarks and notes for specific frequency bands.
- Offers insights into unique communication needs and limitations.

---

**Part 10:**

- Final part summarizing all entries.
- Provides a comprehensive overview of the entire frequency spectrum.
<table>
<thead>
<tr>
<th>FREQUENCY</th>
<th>COUNTRY</th>
<th>CALLSIGN</th>
<th>FREQUENCY</th>
<th>CALLSIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>4704.0</td>
<td>CW S. Africa</td>
<td>ZRH</td>
<td>Fisantekraal Naval</td>
<td>1726</td>
</tr>
<tr>
<td>4675.0</td>
<td>CW USSR</td>
<td>URL</td>
<td>Sevastopol Radio</td>
<td>1649</td>
</tr>
<tr>
<td>4610.0</td>
<td>CW Australia</td>
<td>VIVS3</td>
<td>Sydney Radio, NSW</td>
<td>0222</td>
</tr>
<tr>
<td>4607.3</td>
<td>CW S. Africa</td>
<td>ZKR</td>
<td>Simons town Naval</td>
<td>1045</td>
</tr>
<tr>
<td>4607.3</td>
<td>CW Mexico</td>
<td>XFL</td>
<td>Mazatlan Radio</td>
<td>2330</td>
</tr>
<tr>
<td>4593.5</td>
<td>CW Brazil</td>
<td>PP</td>
<td>Juncao Radio</td>
<td>2018</td>
</tr>
<tr>
<td>4562.5</td>
<td>CW Turkey</td>
<td>TAH</td>
<td>Dammam Radio</td>
<td>2036</td>
</tr>
<tr>
<td>4555.5</td>
<td>CW Saudi Arabia</td>
<td>H26</td>
<td>Ankara Naval</td>
<td>1649</td>
</tr>
<tr>
<td>4526.0</td>
<td>CW Turkey</td>
<td>TBA2</td>
<td>Ankara Naval</td>
<td>0610</td>
</tr>
<tr>
<td>4526.0</td>
<td>CW France</td>
<td>FUE</td>
<td>Brest Naval</td>
<td>0630</td>
</tr>
<tr>
<td>4517.0</td>
<td>RTTY Canada</td>
<td>CFH</td>
<td>Halflow, NS</td>
<td>0739</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Panama</td>
<td>HPP</td>
<td>Panama Intermar Radio</td>
<td>1644</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Turkey</td>
<td>TBA5</td>
<td>Ankara Naval</td>
<td>1236</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Unknown</td>
<td>2RCB</td>
<td>Unknown</td>
<td>2141</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Germany</td>
<td>DJ9</td>
<td>Willemsham</td>
<td>2229</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Colombia</td>
<td>HKB</td>
<td>Barranquilla Radio</td>
<td>2051</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW New Zealand</td>
<td>ZLB2</td>
<td>Awarus Radio</td>
<td>1240</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Algeria</td>
<td>7AA2</td>
<td>Algiers Radio</td>
<td>2035</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW China</td>
<td>XSV</td>
<td>Tianjin Radio</td>
<td>2057</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW China</td>
<td>XSV</td>
<td>Tianjin Radio</td>
<td>2058</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW S. Africa</td>
<td>ZSJ2</td>
<td>Capetown Naval</td>
<td>0355</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW USSR</td>
<td>UOK</td>
<td>Riga Radio</td>
<td>1918</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Canada</td>
<td>VCS</td>
<td>Halflow, NS</td>
<td>1639</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW USSR</td>
<td>UAI</td>
<td>Tallin Radio</td>
<td>1954</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Australia</td>
<td>VIK2</td>
<td>Canberra Naval, ACT</td>
<td>1650</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Algeria</td>
<td>ZC46</td>
<td>Capetown Radio</td>
<td>0001</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Italy</td>
<td>IAR</td>
<td>Rome Radio</td>
<td>1636</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Greece</td>
<td>SXA34</td>
<td>Piraeus Naval</td>
<td>2267</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW France</td>
<td>HWN</td>
<td>Paris-Houilles Naval</td>
<td>2239</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Brazil</td>
<td>PP0</td>
<td>Olinda Radio</td>
<td>1659</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Kuwait</td>
<td>9K2</td>
<td>Kuwait Radio</td>
<td>1908</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Bulgaria</td>
<td>6Y</td>
<td>London Naval</td>
<td>2026</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Bahrain</td>
<td>A9T</td>
<td>Bahrain Radio</td>
<td>2130</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Japan</td>
<td>JNA</td>
<td>Tokyo Radio</td>
<td>1937</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Japan</td>
<td>JNA</td>
<td>Tokyo Radio</td>
<td>2095</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW USSR</td>
<td>UON</td>
<td>Baku Radio</td>
<td>2156</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW S. Korea</td>
<td>HLG</td>
<td>Seoul Radio</td>
<td>1800</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Scotland</td>
<td>MGJ</td>
<td>Glasgow Naval</td>
<td>2044</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Singapore</td>
<td>9V633</td>
<td>Singapore Radio</td>
<td>2105</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Bulgaria</td>
<td>LZW2</td>
<td>Varna Radio</td>
<td>1949</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW China</td>
<td>X5G</td>
<td>Capetown Radio</td>
<td>1730</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW China</td>
<td>X5G</td>
<td>Shanghai Radio</td>
<td>0018</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Greece</td>
<td>FXL</td>
<td>St. Lys Lighthouse</td>
<td>2055</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW USSR</td>
<td>UXN</td>
<td>Arkhangelsk Radio</td>
<td>1952</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Israel</td>
<td>4XZ</td>
<td>Haifa Naval</td>
<td>2112</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Poland</td>
<td>SFP</td>
<td>Gydria Radio</td>
<td>2307</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW China</td>
<td>X5Q</td>
<td>Guangzhou Radio</td>
<td>1956</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW USSR</td>
<td>UXN</td>
<td>Arkhangelsk Radio</td>
<td>2029</td>
</tr>
<tr>
<td>4517.0</td>
<td>CW Bahrain</td>
<td>ASPi</td>
<td>Bahrain Radio</td>
<td>2159</td>
</tr>
<tr>
<td>4517.0</td>
<td>RTTY USSR</td>
<td>UBE1</td>
<td>Petrovskovsk Radio</td>
<td>0830</td>
</tr>
<tr>
<td>4562.5</td>
<td>USA</td>
<td>WNM</td>
<td>Miami Radio, FL</td>
<td>0645</td>
</tr>
<tr>
<td>4562.5</td>
<td>USA</td>
<td>WNM</td>
<td>Boston, MA</td>
<td>0219</td>
</tr>
<tr>
<td>4410.1</td>
<td>USA</td>
<td>Unknown</td>
<td>Unknown</td>
<td>0300</td>
</tr>
<tr>
<td>4428.7</td>
<td>USA</td>
<td>NNI</td>
<td>Portsmouth, VA</td>
<td>0419</td>
</tr>
<tr>
<td>4482.0</td>
<td>RTTY China</td>
<td>BJ25</td>
<td>Hangzhou</td>
<td>1231</td>
</tr>
<tr>
<td>4506.0</td>
<td>USB</td>
<td>Mozambique</td>
<td>Maputo</td>
<td>Telcom</td>
</tr>
<tr>
<td>4517.0</td>
<td>USB</td>
<td>USA</td>
<td>USARF, MARITIME FREQUENCY</td>
<td>Moon-RSA</td>
</tr>
<tr>
<td>4529.0</td>
<td>USA</td>
<td>WNM</td>
<td>Penasuco Radio, FL</td>
<td>Stations reported include: AFF3H0</td>
</tr>
<tr>
<td>4562.5</td>
<td>CW Norway</td>
<td>JTW</td>
<td>Stavanger Naval</td>
<td>Lindley-AL</td>
</tr>
<tr>
<td>4577.0</td>
<td>USA</td>
<td>USAF MARINE FREQUENCY</td>
<td>USARF, MARITIME FREQUENCY</td>
<td>Lindley-AL</td>
</tr>
<tr>
<td>4593.5</td>
<td>USA</td>
<td>USAF MARINE FREQUENCY</td>
<td>USARF, MARITIME FREQUENCY</td>
<td>Lindley-AL</td>
</tr>
<tr>
<td>4607.3</td>
<td>RTTY Spain</td>
<td>76YLQ</td>
<td>Tarifa Naval</td>
<td>0341</td>
</tr>
<tr>
<td>4610.0</td>
<td>FAX England</td>
<td>6FA22</td>
<td>Breacknell</td>
<td>0413</td>
</tr>
<tr>
<td>4654.0</td>
<td>USA</td>
<td>Spain</td>
<td>Madrid</td>
<td>Berne, Switzerland...ed.)</td>
</tr>
<tr>
<td>4675.0</td>
<td>USA</td>
<td>USAF MARINE FREQUENCY</td>
<td>USARF, MARITIME FREQUENCY</td>
<td>George-MA</td>
</tr>
<tr>
<td>4704.0</td>
<td>USB</td>
<td>USA</td>
<td>4069.0</td>
<td>Stations reported include: Gander, Nf&amp;d, Canada;</td>
</tr>
<tr>
<td>4704.0</td>
<td>FAX Spain</td>
<td>AOK</td>
<td>Rota</td>
<td>Reyjavik, Iceland</td>
</tr>
<tr>
<td>4704.0</td>
<td>FAX Spain</td>
<td>AOK</td>
<td>Rota</td>
<td>George-MA</td>
</tr>
</tbody>
</table>

**Note:** The table above includes a variety of radio frequencies and locations, along with the associated radio call signs and markers. The data appears to be related to maritime and aviation communications, including numbers and locations around the world.
<table>
<thead>
<tr>
<th>Time</th>
<th>Call</th>
<th>Country</th>
<th>Frequency</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0213</td>
<td>WX &amp; ID</td>
<td>RAF VOLMET, West Drayton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0216</td>
<td>USAF</td>
<td></td>
<td>120/576</td>
<td></td>
</tr>
<tr>
<td>0241</td>
<td>RC AF</td>
<td></td>
<td>120/576</td>
<td></td>
</tr>
<tr>
<td>2200</td>
<td>CO DE 3VU</td>
<td>Marker, then 5FG tcf</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0300</td>
<td>120/576</td>
<td></td>
<td>120/576</td>
<td></td>
</tr>
<tr>
<td>0435</td>
<td>FAF/V Marker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2318</td>
<td>Time Signals in Spanish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0012</td>
<td>Numbers by YL in German</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2312</td>
<td>Numbers in EE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0100</td>
<td>Info, anyone?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1650</td>
<td>Malaysian Navy V Marker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1350</td>
<td>25/50: JU1 NEx in EE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2300</td>
<td>25/50: AFTN 'TKA' circuit.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0310</td>
<td>400/50: TANJUG NEx in EE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0610</td>
<td>Soviet Navy Wkg UT66 simplex</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>400/50: MENA news in FF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0425</td>
<td>GDR of HAM Test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0425</td>
<td>GDR of HAM Test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0402</td>
<td>Stations reported: Morocco</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2215</td>
<td>25/75: VOA NEx. OMA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2225</td>
<td>Wx for central African cities in French and English</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0356</td>
<td>LDOC. British Airways HAM wkg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0245</td>
<td>120/576: USN. Wx charts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1924</td>
<td>425/50: AFTN 'MLA' circuit.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1245</td>
<td>425/50: MFA. OMA Marker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1245</td>
<td>425/50: AFTN 'MLA' circuit.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1245</td>
<td>425/50: AFTN 'MLA' circuit.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1014</td>
<td>USN. Coded msgs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1250</td>
<td>Beacon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0840</td>
<td>Clg PV2S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>Wkg M/V JIM BAKER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0220</td>
<td>V Marker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0415</td>
<td>Numbers in EE by YL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0500</td>
<td>120/576: Wx maps</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2130</td>
<td>Portuguese Navy. OMA Marker &amp; Wx</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>Country</td>
<td>Callsign</td>
<td>Mode</td>
<td>Notes</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
<td>----------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>6331.5</td>
<td>USSR</td>
<td>UMV</td>
<td>Murmansk Radio</td>
<td></td>
</tr>
<tr>
<td>6334.5</td>
<td>USSR</td>
<td>UHN3</td>
<td>Nevelsk Radio</td>
<td></td>
</tr>
<tr>
<td>6337.0</td>
<td>Chile</td>
<td>CBV</td>
<td>Valparaiso Radio</td>
<td></td>
</tr>
<tr>
<td>6339.8</td>
<td>New Zealand</td>
<td>ZLO</td>
<td>Irirangi Naval</td>
<td></td>
</tr>
<tr>
<td>6340.4</td>
<td>France</td>
<td>FUE</td>
<td>Brest Naval</td>
<td></td>
</tr>
<tr>
<td>6340.5</td>
<td>Singapore</td>
<td>9V69</td>
<td>Singapore Radio</td>
<td></td>
</tr>
<tr>
<td>6344.0</td>
<td>Iceland</td>
<td>TFA</td>
<td>Reykjavik Radio</td>
<td></td>
</tr>
<tr>
<td>6344.0</td>
<td>South Korea</td>
<td>HLF</td>
<td>Seoul Radio</td>
<td></td>
</tr>
<tr>
<td>6345.0</td>
<td>Spain?</td>
<td>EB8</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>6348.0</td>
<td>France</td>
<td>HMN</td>
<td>Paris-Houllies Naval</td>
<td></td>
</tr>
<tr>
<td>6352.0</td>
<td>France</td>
<td>F6U</td>
<td>La Regine Naval</td>
<td></td>
</tr>
<tr>
<td>6364.5</td>
<td>Saudi Arabia</td>
<td>H2G</td>
<td>Dammam Radio</td>
<td></td>
</tr>
<tr>
<td>6371.2</td>
<td>Gibralt</td>
<td>GYU</td>
<td>Gibralt Naval</td>
<td></td>
</tr>
<tr>
<td>6374.0</td>
<td>Turkey</td>
<td>TB03</td>
<td>Izmir Naval</td>
<td></td>
</tr>
<tr>
<td>6375.0</td>
<td>USSR</td>
<td>UR2B</td>
<td>Klaipeda Radio</td>
<td></td>
</tr>
<tr>
<td>6379.0</td>
<td>Israel</td>
<td>4K2</td>
<td>Halfa Naval</td>
<td></td>
</tr>
<tr>
<td>6383.0</td>
<td>Senegal</td>
<td>6VA</td>
<td>Dakar Radio</td>
<td></td>
</tr>
<tr>
<td>6384.5</td>
<td>Canada</td>
<td>CKN</td>
<td>Vancouver Radio, BC</td>
<td></td>
</tr>
<tr>
<td>6385.0</td>
<td>Brazil</td>
<td>PPR</td>
<td>Rio Radio</td>
<td></td>
</tr>
<tr>
<td>6366.3</td>
<td>Colombia</td>
<td>HNCB</td>
<td>Buenaventura Radio</td>
<td></td>
</tr>
<tr>
<td>6389.0</td>
<td>Portugal</td>
<td>CTP</td>
<td>Oeiras Naval</td>
<td></td>
</tr>
<tr>
<td>6390.0</td>
<td>Italy</td>
<td>IDQ3</td>
<td>Rome Naval</td>
<td></td>
</tr>
<tr>
<td>6391.5</td>
<td>Belgium</td>
<td>OSN</td>
<td>Ostend Naval</td>
<td></td>
</tr>
<tr>
<td>6394.0</td>
<td>Australia</td>
<td>VHI</td>
<td>Darwin Radio, NT</td>
<td></td>
</tr>
<tr>
<td>6404.0</td>
<td>Netherlands</td>
<td>PCH39</td>
<td>Scaveningen Radio</td>
<td></td>
</tr>
<tr>
<td>6408.9</td>
<td>Italy</td>
<td>IADC</td>
<td>Rome Radio</td>
<td></td>
</tr>
<tr>
<td>6411.0</td>
<td>RTTY USSR</td>
<td>UKA</td>
<td>Vladivostok Radio</td>
<td></td>
</tr>
<tr>
<td>6415.0</td>
<td>Algeria</td>
<td>7TF</td>
<td>Boufarik Radio</td>
<td></td>
</tr>
<tr>
<td>6418.0</td>
<td>India</td>
<td>VTP5</td>
<td>Vishakhapatnam Naval</td>
<td></td>
</tr>
<tr>
<td>6422.0</td>
<td>France</td>
<td>FFL</td>
<td>SL Lys Radio</td>
<td></td>
</tr>
<tr>
<td>6428.5</td>
<td>Australia</td>
<td>VIS</td>
<td>Sydney Radio, NSW</td>
<td></td>
</tr>
<tr>
<td>6430.0</td>
<td>Canada</td>
<td>CFH</td>
<td>Halifax, NS</td>
<td></td>
</tr>
<tr>
<td>6442.5</td>
<td>Mexico</td>
<td>XFS3</td>
<td>Tampico Radio</td>
<td></td>
</tr>
<tr>
<td>6451.0</td>
<td>South Korea</td>
<td>HLG</td>
<td>Seoul Radio</td>
<td></td>
</tr>
<tr>
<td>6456.0</td>
<td>Canada</td>
<td>CKN</td>
<td>Vancouver Radio</td>
<td></td>
</tr>
<tr>
<td>6462.0</td>
<td>Society IS.</td>
<td>FUT</td>
<td>Papeete Naval</td>
<td></td>
</tr>
<tr>
<td>6463.8</td>
<td>Colombia</td>
<td>HKB</td>
<td>Barranquilla Radio</td>
<td></td>
</tr>
<tr>
<td>6464.0</td>
<td>Australia</td>
<td>VIS3</td>
<td>Sydney Radio, NSW</td>
<td></td>
</tr>
<tr>
<td>6465.0</td>
<td>Germany</td>
<td>YSM</td>
<td>Rügen</td>
<td></td>
</tr>
<tr>
<td>6470.0</td>
<td>Greece</td>
<td>SXA24</td>
<td>Piraeus Naval</td>
<td></td>
</tr>
<tr>
<td>6470.5</td>
<td>Jamaica</td>
<td>6Y1</td>
<td>Kingston Radio</td>
<td></td>
</tr>
<tr>
<td>6470.5</td>
<td>Israel</td>
<td>4XO</td>
<td>Haifa Radio</td>
<td></td>
</tr>
<tr>
<td>6473.5</td>
<td>Romania</td>
<td>YQL</td>
<td>Constanta Radio</td>
<td></td>
</tr>
<tr>
<td>6495.5</td>
<td>USSR</td>
<td>UFL</td>
<td>Vladivostok Radio</td>
<td></td>
</tr>
<tr>
<td>6504.0</td>
<td>Singapore</td>
<td>9V677</td>
<td>Singapore Radio</td>
<td></td>
</tr>
<tr>
<td>6505.0</td>
<td>Italy</td>
<td>IDR3</td>
<td>Rome Radio</td>
<td></td>
</tr>
<tr>
<td>6506.4</td>
<td>USA</td>
<td>unknown</td>
<td>USCG CONSTANT</td>
<td></td>
</tr>
<tr>
<td>6518.8</td>
<td>Canada</td>
<td>VCS</td>
<td>Halifax Radio, NS</td>
<td></td>
</tr>
<tr>
<td>6521.9</td>
<td>USA</td>
<td>WC2</td>
<td>Natchez Radio, MS</td>
<td></td>
</tr>
<tr>
<td>6521.9</td>
<td>USA</td>
<td>KFX265</td>
<td>unknown</td>
<td></td>
</tr>
<tr>
<td>6529.7</td>
<td>RTTY Libya</td>
<td>SAF</td>
<td>Tripoli Air</td>
<td></td>
</tr>
<tr>
<td>6604.0</td>
<td>Canada</td>
<td>unknown</td>
<td>Gander VOLMET, Nfld.</td>
<td></td>
</tr>
<tr>
<td>6640.0</td>
<td>USA</td>
<td>unknown</td>
<td>New York, NY</td>
<td></td>
</tr>
<tr>
<td>6676.0</td>
<td>Australia</td>
<td>VLS</td>
<td>Sydney VOLMET, NSW</td>
<td></td>
</tr>
<tr>
<td>6676.0</td>
<td>Thailand</td>
<td>unknown</td>
<td>Bangkok VOLMET</td>
<td></td>
</tr>
<tr>
<td>6679.0</td>
<td>New Zealand</td>
<td>unknown</td>
<td>Auckland VOLMET</td>
<td></td>
</tr>
<tr>
<td>6686.0</td>
<td>USSR</td>
<td>RFNV</td>
<td>Moscow</td>
<td></td>
</tr>
<tr>
<td>6738.0</td>
<td>England</td>
<td>MLP</td>
<td>Upavon</td>
<td></td>
</tr>
<tr>
<td>6746.0</td>
<td>Canada</td>
<td>unknown</td>
<td>Halifax Military, NS</td>
<td></td>
</tr>
<tr>
<td>6753.0</td>
<td>Canada</td>
<td>CHR</td>
<td>Trenton Military, Ont.</td>
<td></td>
</tr>
<tr>
<td>6756.0</td>
<td>USA</td>
<td>AFA</td>
<td>Andrews AFB, MD</td>
<td></td>
</tr>
<tr>
<td>6760.0</td>
<td>England</td>
<td>unknown</td>
<td>Plymouth Rescue</td>
<td></td>
</tr>
<tr>
<td>6805.0</td>
<td>RTTY Poland</td>
<td>S06280</td>
<td>Warsaw</td>
<td></td>
</tr>
<tr>
<td>6810.0</td>
<td>RTTY Unknown</td>
<td>unknown</td>
<td>unknown</td>
<td></td>
</tr>
<tr>
<td>6815.0</td>
<td>RTTY China</td>
<td>BAL34</td>
<td>Beijing</td>
<td></td>
</tr>
<tr>
<td>6825.0</td>
<td>Czechoslovakia</td>
<td>OMV92</td>
<td>Prague</td>
<td></td>
</tr>
</tbody>
</table>

The table continues with more entries including frequencies, countries, callsigns, modes, and notes such as Special, Military, Radio, freq. NATO, HMS, AFR, USN, etc.
<table>
<thead>
<tr>
<th>Frequency</th>
<th>Country/Region</th>
<th>Identifier</th>
<th>City/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6830.0</td>
<td>RTTY USSR</td>
<td>RDW72</td>
<td>Khabarovsky</td>
</tr>
<tr>
<td>6844.5</td>
<td>RTTY France</td>
<td>FDY</td>
<td>Orleans Air</td>
</tr>
<tr>
<td>6848.0</td>
<td>RTTY Hawaii</td>
<td></td>
<td>Hickam AFB</td>
</tr>
<tr>
<td>6856.0</td>
<td>RTTY Kuwait</td>
<td>9KT25</td>
<td>Safat</td>
</tr>
<tr>
<td>6864.0</td>
<td>CW Unknown U</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>6873.0</td>
<td>ISB USA</td>
<td></td>
<td>Greenville, NC</td>
</tr>
<tr>
<td>6900.2</td>
<td>FAX USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6903.0</td>
<td>USB S. Africa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6904.0</td>
<td>FAX USA</td>
<td>KGWC</td>
<td>Offut AFB, NE</td>
</tr>
<tr>
<td>6905.4</td>
<td>RTTY USSR</td>
<td>KAWN</td>
<td>Carswell AFB, TX</td>
</tr>
<tr>
<td>6941.5</td>
<td>RTTY Gabon</td>
<td>TRK</td>
<td>Libreville</td>
</tr>
<tr>
<td>6943.0</td>
<td>RTTY Mauritania</td>
<td>STX</td>
<td>Nouadhibou</td>
</tr>
<tr>
<td>6963.4</td>
<td>RTTY USA</td>
<td>NMG</td>
<td>New Orleans, LA</td>
</tr>
<tr>
<td>6975.0</td>
<td>RTTY Senegal</td>
<td>6VU</td>
<td>Dakar</td>
</tr>
<tr>
<td>6975.0</td>
<td>USB W. Germany</td>
<td>DFF97</td>
<td>Frankfurt</td>
</tr>
<tr>
<td>6980.5</td>
<td>RTTY USSR</td>
<td>UBE2</td>
<td>Unknown</td>
</tr>
<tr>
<td>7335.0</td>
<td>AM Canada</td>
<td>CHU</td>
<td>Ottawa, ON</td>
</tr>
<tr>
<td>7355.0</td>
<td>RTTY Mali</td>
<td>T2H</td>
<td>Bamako</td>
</tr>
<tr>
<td>7395.0</td>
<td>RTTY Hong Kong</td>
<td>TJK</td>
<td>Royal Observatory</td>
</tr>
<tr>
<td>7474.0</td>
<td>RTTY Cameroon</td>
<td>TJK</td>
<td>Douala</td>
</tr>
<tr>
<td>7505.0</td>
<td>CW USA</td>
<td>NNN</td>
<td>Portsmouth, VA</td>
</tr>
<tr>
<td>7527.0</td>
<td>USB USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7533.5</td>
<td>USB Puerto Rico</td>
<td>NNN0NPR</td>
<td>San Juan</td>
</tr>
<tr>
<td>7542.5</td>
<td>RTTY France</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7552.0</td>
<td>RTTY S. Africa</td>
<td></td>
<td>Pretoria</td>
</tr>
<tr>
<td>7552.0</td>
<td>USB USA</td>
<td>WNT417</td>
<td>Morristown, NJ</td>
</tr>
<tr>
<td>7560.0</td>
<td>RTTY USSR</td>
<td>RPT30</td>
<td>Moscow</td>
</tr>
<tr>
<td>7585.0</td>
<td>RTTY Senegal</td>
<td>6VY41</td>
<td>Dakar</td>
</tr>
<tr>
<td>7595.0</td>
<td>CW Unknown U</td>
<td></td>
<td>Unknown</td>
</tr>
<tr>
<td>7600.0</td>
<td>AM Ecuador</td>
<td>HD218A</td>
<td>Guayaquil</td>
</tr>
<tr>
<td>7611.0</td>
<td>RTTY Egypt</td>
<td></td>
<td>Cairo</td>
</tr>
<tr>
<td>7614.0</td>
<td>RTTY Nigeria</td>
<td>SUA</td>
<td>Namayee</td>
</tr>
<tr>
<td>7625.4</td>
<td>RTTY Saudi Arabia</td>
<td>H2N47</td>
<td>Jeddah</td>
</tr>
<tr>
<td>7627.0</td>
<td>CW Greece</td>
<td>KWS575</td>
<td>Athens</td>
</tr>
<tr>
<td>7635.0</td>
<td>USB USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7645.0</td>
<td>RTTY USSR</td>
<td>RSE365</td>
<td>Moscow</td>
</tr>
<tr>
<td>7651.0</td>
<td>ISB USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7652.0</td>
<td>CW Liberia</td>
<td>KKN44</td>
<td>Monrovia</td>
</tr>
<tr>
<td>7658.0</td>
<td>RTTY Yugoslavia</td>
<td>YZD</td>
<td>Belgrade</td>
</tr>
<tr>
<td>6777.8</td>
<td>CW Unknown U</td>
<td></td>
<td>Unknown</td>
</tr>
<tr>
<td>6795.0</td>
<td>RTTY Taiwan</td>
<td>3MA26</td>
<td>Taipei</td>
</tr>
<tr>
<td>7700.0</td>
<td>CW Unknown X75</td>
<td></td>
<td>Unknown</td>
</tr>
<tr>
<td>7703.0</td>
<td>RTTY USSR</td>
<td>RGH77</td>
<td>Arkhangelsk</td>
</tr>
<tr>
<td>7776.5</td>
<td>RTTY Belgium</td>
<td>OST38</td>
<td>Ostend Radio</td>
</tr>
<tr>
<td>7817.0</td>
<td>RTTY Bulgaria</td>
<td>SNK</td>
<td>Kano</td>
</tr>
<tr>
<td>7845.0</td>
<td>RTTY Poland</td>
<td>SOH284</td>
<td>Warsaw</td>
</tr>
<tr>
<td>7860.0</td>
<td>CW Unknown U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7863.0</td>
<td>RTTY China</td>
<td>BJZ21</td>
<td>Hangzhou</td>
</tr>
<tr>
<td>7878.0</td>
<td>RTTY USA</td>
<td>RNNS2</td>
<td>Moscow</td>
</tr>
<tr>
<td>7892.5</td>
<td>CW Poland</td>
<td>SPW</td>
<td>Warsaw Radio</td>
</tr>
<tr>
<td>7953.0</td>
<td>RTTY Argentina</td>
<td>LRN85</td>
<td>Buenos Aires</td>
</tr>
<tr>
<td>7954.3</td>
<td>RTTY Argentina</td>
<td>LRN85</td>
<td>Buenos Aires</td>
</tr>
<tr>
<td>7964.5</td>
<td>RTTY Unknown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7972.0</td>
<td>RTTY Vietnam</td>
<td>XVH70</td>
<td>Hanoi</td>
</tr>
<tr>
<td>7996.0</td>
<td>RTTY Yugoslavia</td>
<td>YZD9</td>
<td>Belgrade</td>
</tr>
</tbody>
</table>

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