

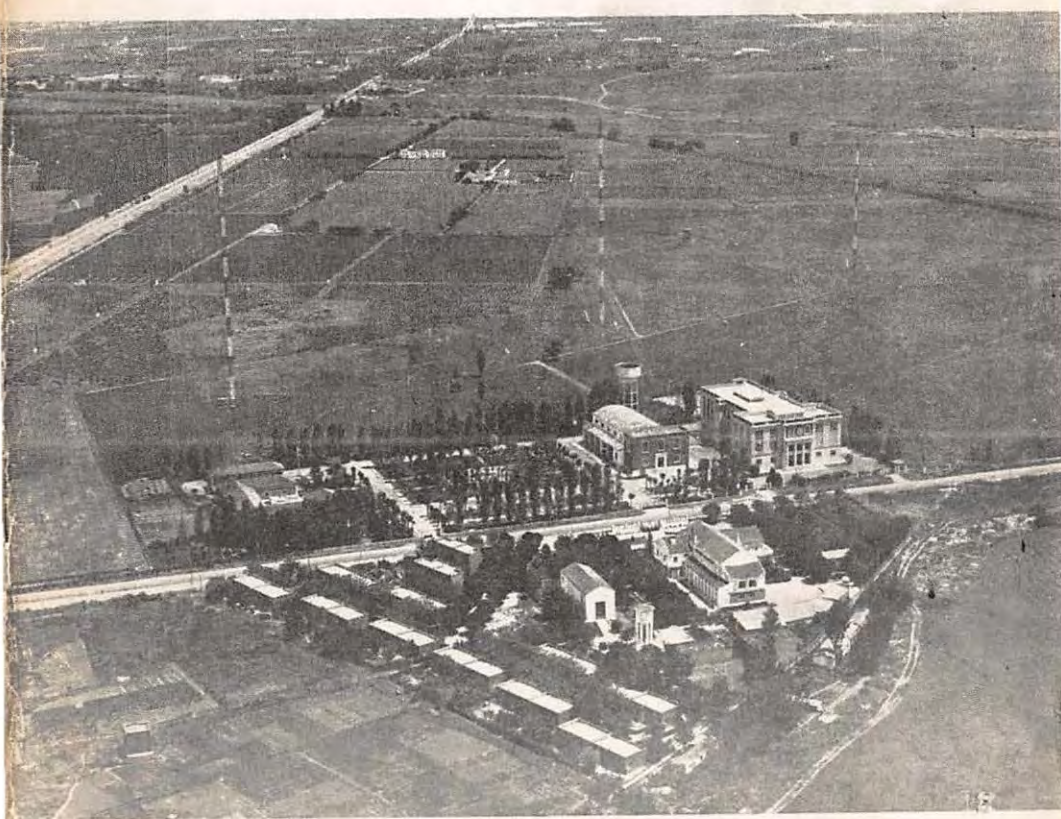
F R E N D X

The SHORT WAVE BROADCAST Journal - Since 1962

NORTH AMERICAN SHORTWAVE ASSOCIATION

Vol. XII No. 4

April 1973



THE LOUDENBOOMER REPORT

I was wrong!

Becha you never thought you'd hear ol' Charlie make such an admission. But really it isn't all that unique. Once, back in '46 or '47, I also was wrong, a fact I freely and openly confess. And, again now, I admit I was mistaken.

For some years now, ye scribe headed a mossyback band of SWEC DXers which resisted newfangled notions promoted by hobby avant-gardists. Paramount among these objectionable ideas was the proposition that listening to harmonics of medium wave stations is a legitimate part of DXing.

Personally, I never could buy the idea of spending listening time that could more productively be used hunting Tristan da Cunha and Radio Atlantis on those wierd, off-beat frequencies below 3MHz. I shuddered at the very suggestion of considering the 55th harmonic of a 540 kHz Central American MW'er as legit DX material.

And just when I'd reached what I considered the ultimate compromise with these harmonic freq-freaks -- a kind of live-and-let-live truce -- a new horror appeared on the scene.

My first clue was the appearance, in some bulletins, of references to SAH. I believed, at first, that the letters meant only that the report in question was submitted by my old friend Sam A. Hunkers. The hobby modernists soon put me right, though. SAH, they explained with some condescension, meant "sub-audible heterodyne"!

I really flipped! The idea of a harmonic you couldn't even hear was just too much.

Now you may accuse Loudenboomer of many things -- unjustly of course -- but a closed mind is not one of them. So I asked more questions of my technically-minded betters, I read extensively, I studied hard, I learned.

I discovered that, indeed, sub-audible heterodynes exist and, with the proper techniques and equipment they can be detected by DXers. Having decided that maybe there was something to the claims of the progressive DX crowd, it was not a major mental step to the acceptance of harmonic DXing.

And so I joined them in their fascinating phase of DXing. Soon I was logging the fifth harmonic of Tarawa on 4,220 KHz, strange Mid-East signals on equally strange frequencies of 1,986, 2,214 and 2,874 kHz.

Why I'll never know, but as fate would have it I found myself tuned to 2,142 kHz. Suddenly I realized that I was hearing nothing but the usual background noise in the headphones. Yes, that's right hiss, hash, a bit of slop-over from a marine ute station on the side, but other than that, no intelligible signal!! And in that incredible instant I knew what I was hearing, er, not hearing. It was a sub-audible harmonic.

Quickly I did some calculations. Obviously it must be the third sub-audible harmonic of the medium wave Radio Samoa on 706 kHz!! After taking a log of what I wasn't hearing I continued to tune around. And, that's right, on frequency after frequency, I found countless other sub-audible harmonics I couldn't hear.

A whole new world of non-DX opened for me. That was six weeks ago. Today, I'm proud to report, my log shows I haven't heard signals from sub-audible harmonics of medium wave stations in 106 different countries. I fully expect to reach the 200 country mark within the next month or so.

Ah, the thrill of logging stations you don't even hear! It's a fascinating new breakthrough in our hobby that I recommend to all. Or have perhaps some of you discovered sub-audible harmonic DXing already?

Shortwave Center



EDITOR
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Deadline 15th of Month



Shortwave Broadcasting In Guatemala

By GREGG A. CALKIN

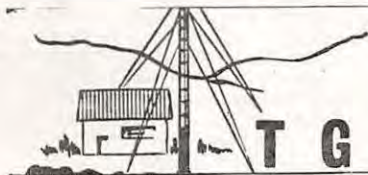
Guatemala, a land of still smoking volcanoes and rich Mayan history, is famous for the variety and quality of its textiles, bananas, coffee and sugar. Its cities are a study in contrast: clean, modern Guatemala City, with its first class shops and bright cafés; beautiful, historic Antigua, old capital of Guatemala and treasure house of Spanish colonial art; and Chichicastenango, picturesque Indian highland village. Guatemala's natural beauties include volcano-sentinel Lake Atitlan, forest-lined Lake Izabel and Río Dulce, one of the most beautiful stretches of water in the world.

Guatemala is the northernmost and most populous of the Central American republics, having a total land area of some 42,000 sq. miles. The population, estimated to be at 5½ million, is predominantly rural although urbanization is now beginning to accelerate. The capital, Guatemala City, is approximately 700,000 and growing.

This little-known Central American republic offers several interesting and rare catches for the SWBC DXer, but unfortunately all too often DXers stop their pursuit of Guatemalans once the country is verified, generally in the form of TGNA/B. The WRTH lists several stations as "operating", but based upon two visits to Guatemala in the past year and regular listening from my monitoring post in Mexico City, only 7 stations, transmitting on 9 frequencies, are actually on the air. They cover all bands from 120 to 31 meters and have all been heard in the U.S.A. or Canada, although the low-frequency outlets will normally be best heard when the A-index is high (30 or above).

The following list comprises those stations which are believed to be currently active. Any changes noted or additional discoveries would, of course, be appreciated to LOG REPORT.

- 2360 TGBA Radio Maya de Barillas, Barillas, Depto. de Huehuetenango. This religious station, owned by the Central American Mission, transmits in 6 of the 23 Indian dialects of Guatemala, plus Spanish. On this frequency the station utilizes a 250 watt Collins 300G transmitter into a 90' high horizontal dipole. The station has been very friendly to DXers and reports, which may be sent in English, are answered by Loran W. Veith Jr., manager.
(Please turn to the next page)



T G B A —

RADIO MAYA
BARILLAS, HUEHUETENANGO
GUATEMALA

SWBC IN GUATEMALA (Cont.)

2390 Radio La Voz de Atit-
TGDS lan, Santiago Atitlán,
Depto. de Solclá. Per-
 haps the rarest and least
 known Guatemalan, TGDS

was first tuned by Glenn Hauser in 1971 but since has been logged by several NA DXers. The station transmits radio school (escuela radiofonica) programs from January to June and marimba, music and songs for the other 6 months of the year. Verification policy is fairly good; by letter from V/S: Juan Ajtzip Alvarado, Locutor, who gives the sked as 0000-0330 Tues-Sun inclusive (GMT). When tuning for TGDS, watch out for R. Huayacocotla, XEJN, a 500 watt Mexican educational station which transmits on the same frequency (and an equally good catch).

3320v TGBA Radio Maya de Barillas.
 (see 2360). The trans-
 mitter used on this fr-
 equency is a recently acquired 1000 watt Gates 1G,
 which is run in parallel to 2360.

3360 TGVN La Voz de Nahualá, Nahualá, Depto. de Sololá. Another
 station which is consistently well heard and friendly
 to DXers and verifies with a colorful painted QSL card
 (and occasionally a letter) from Sister J. Druffel, sta-
 tion manager, or from Antonio Ixmata Hernandez, locutor
 encargado de Reportes Internacionales. TGVN utilizes a
 Philips 1000 watt transmitter, fed into a 22 meter high
 half-wave horizontal dipole.

3380 TGCH Escuelas Radiofónicas, Jocotán, Depto. de Chiquimula.
 Better known as "Radio Chortis", TGCH is located in an
 area rich in Mayan history near the Honduran border,
 and transmits from 1100-1400 and 2100-0200 (sometimes
 later s/off) GMT. Transmissions are primarily educat-
 ional with excellent marimba music in the evenings. The
 station replies readily by letter, sked and pennant from
 Prof. Raúl Amilear Casasola P., director and V/S.

4835 TGEZ? Unidentified, Cobán, Depto. de Alta Verapaz. An uniden-
 tified station was heard here in Nov./72 with marimba
 music, announcements; but a positive ID was not heard.
 The station then vanished but should bear watching!

5950 TGNA Radio Cultural, Guatemala City. The only Guatemalan to
 transmit in English (0300-0400 GMT), TGNA utilizes a
 10 kw transmitter and folded dipole antenna at Petapa,
 some 10 miles outside the capital. The V/S: David Keel-
 er, recording engineer is pleased to receive reports
 but pointed out to Richard Wood and me when we visited
 in 1971 that the station budget is low and return post-
 age is appreciated. Verification is by card featuring
 the Quetzal, the national symbol of Guatemala; a bird
 which rarely survives in captivity and is therefore a
 symbol of liberty. Radio Cultural is a religious sta-
 tion, its slogan "Telling the Good News Abroad".

(Please turn to the next Page)



La Voz de Guatemala Studios
 (Photo by Author)

SHORTWAVE BROADCASTING IN GUATEMALA By GREGG A. CALKIN (Concluded)

6180 TGW La Voz de Guatemala, Guatemala City. This 10 kw government-owned station is operated by the Direccion General de Radiodifusion from studios in downtown Guatemala City and transmitters in nearby Campo de Marte and is well known as an excellent source of live marimba performances. For many years an almost impossible verifier, the station has begun to reply since REW's and my visit in Dec/71. Address your reports to V/S: Luis A. Pimentel G. QSL card is full data in colors of Guatemalan flag (blue-white-blue).



9505 TGWB Radio Cultural (see 5950) also operates here in parallel with 5 kw although power is sometimes reduced in the evening on both channels to curb costs.

RADIO LA VOZ DE NAHUALA
Nahualá, Depto. de Sololá
Guatemala, Centro América.

With the exception of TGB and TGNA/B, reports should be in Spanish with Guatemalan mint stamps (IRCs are particularly difficult to exchange outside the capital.) Reports should preferably be written in local time (GMT less 6 hours) to make checking by the station easier.

All in all, Guatemalan stations present both a DX challenge to the listener while on the whole being friendly and responsive to well written reports. Why not try some of the above yourself?

*** **

DX Thrills

WE'RE STILL IN THE MARKET FOR THESE. WHY NOT SEND IN YOURS? PLEASE TRY TO KEEP THEM FAIRLY SHORT.

"Tuning across 25 meters one day on my old HA-600 (dial accuracy + 1 mh) I hit an English program and began to listen. I heard: 'Bob Kelleher reports hearing R.Nac.de Venezuela on 11725, etc.' You might say I was a bit surprised. Later I found it was Glenn Hauser on DX Juke Box and he had gotten my report from FRENEX Flash Sheet. It was some coincidence that I heard it but a real thrill."

..... Bob Kelleher

"It was back when HCJb and VOA, Greenville, were still DX to me. Listening to the news on 11970 I heard mention of Radio New Zealand. Wow! 7.5 kw DX. Then a woman came on and said that Windward Islands had just finish broadcasting news from Radio New Zealand. I never knew why they were--but I could have cried. It was a DX thrill that burst like a bubble."

..... Steve Sykes

SOME NEWS ABOUT QATAR-- John Campbell reports that the Qatar Council of Ministers has just allocated contracts for supplying two new transmitters of 10 and 750 kw. The large one is "intended to cover the whole Arab world" while the 10kw station will be devoted to an expanded English language service which was started in a small way, but successfully, in 1972. Diplomatic sources in Geneva say that they hope to have the new equipment in service by July 1973.

(Editor's Note): WRTH for 73 also reports Yemen Arab Republic is planning a new 100kw SW transmitter for operation at Sana'a.

Also of news interest: Perry Ferrell reports that South Africa is seriously considering adopting a new law that would make listening to or watching any radio or TV station not approved by the government illegal. It might kill DXing there, certainly end SW clubs.

FRENDX Visits Gilfer—

By EDWARD J. INSINGER



For A

Q And A

With Perry Ferrell

Many NASWA members have become familiar with the wealth of SWL supplies Gilfer Associates offers, whether it be receivers, publications, accessories or information on the hobby ranging from equipment to clubs for the SWLer. Recently I contacted Perry Ferrell of Gilfer, requesting an interview and closer look at their Park Ridge, N.J. facilities. My idea soon became a reality and equipped with questions, tape recorder and camera, I headed for what proved to be a pleasant and interesting visit. The highlights of our conversation follow.

Ed: Would you please explain the name Gilfer?

Perry: The "GIL" comes from my wife's maiden name "Gillespie" and the "FER" from my last name, "Ferrell". When the corporation was formed in 1953, we decided to take out three letters from each of our last names to coin the title.

Ed: How many rooms do you occupy here at 52 Park Avenue?

Perry: We have two rooms; the executive office located on the second floor and an office directly below which is the shipping office.

Ed: How long have you been in Park Ridge at this location?

Perry: The business itself was, until about two years ago, conducted from our house in Park Ridge. We had a special room built in for the business and an extension added to the garage for storage. From 1960 to 1971, the business was conducted from our house. In March of 1971 it was moved downtown.

Ed: Tell us about the renovation and expansion just completed.

Perry: In 1971 Jeanne decided to expand the business downtown. Prior to this I was a silent partner, being Magazine Editor of Popular Electronics until March 1971. We decided to enlarge the business as I was then able to devote full time to it. We are adding more products solely for SW and MW listeners. We have many things in the offing to do within the next year. We're just now scratching the surface.



JEANNE ANSWERS PHONE QUERY

Ed: How do you go about determining the needs of an SWLer before planning a new product such as the A-20 pre-selector?

Perry: Well, that was an easy one because there were very few preselectors on the market; two in England and one in the United States. From my experiences in the field since 1934 I was of the opinion that a preselector was a very desirable item. The question in my mind then was not desirability but the number we should manufacture and the number that could be sold. We sold a lot more than we anticipated—we had hundreds made and every one was sold. But finding a new product is not difficult. There are plenty of things the SWLer needs and has been deprived of, in my personal opinion.

(Please turn to the next page)

Gilfer— (Continued)

Ed: What equipment do DXers need that could be made if the demand were present?

Perry: Things we are working on that we know a demand exists for include an indoor antenna, more adaptable and



PERRY
ON
THE
FIRING
LINE

(Photos
by
Author)

efficient for today's apartments and/or mounting outside the window. Also, right now we are working on an audio noise bl-anker that would be internal to the receiver but will work between the receiver and speaker. Using analog IC's, it can shape the audio passband for varying levels of fidelity --- for music or for speech. Simultaneously, we also feel you could put in that audio chain a T-notch filter that would take out a wider swath of heterodyne than is now possible, due to too sharp a notch. We feel the notch filter could be made 50 to 75 hertz wide rather than so sharp, without destroying audio intelligibility.

Ed: Could you tell us something about the used receiver market and what you have available?

Perry: Right now we're concentrating on two receivers: the SW-4A's we're modifying and the HQ-180A's we will be bringing in the near future. The 180A's we will align and recondition; the SW-4A's we'll align, recondition and alter the IF to take out the LC transformers and put in ceramic transformers.

Ed: Hammarlund has stopped making the 180A. There has been talk they might soon phase out other receivers. Can you comment?

Perry: Hammarlund has had a history of near bankruptcy. They are concentrating on their Coast Guard and Dept. of Defense contracts. To my personal knowledge, they are not making any receivers for hams or SWLers. They do have a warehouse full of HQ-200s but no HQ-180A's and, according to Bob Fisher, do not have facilities or hardware to manufacture any longer despite having 50 firm orders for the HQ-180A.

Ed: Interestingly, WRTH-73 contains no ads for Hammarlund or Hallicrafters, two long time producers of quality, moderately priced receivers. How will this affect the receiver market?

Perry: Hallicrafters is phasing itself out of the field voluntarily and within the past 60 days have discontinued the SX-133 receiver which was an enormous flop due to drift problems and inadequacies of the dial mechanisms. Hallicrafters has only the SX-122A left. They're not making it but have a warehouse full of them. In the fall of this year, I understand, they will have out a solid state receiver. I'll believe it when I see it, frankly. Drake has the complete market to themselves as far as American made equipment goes. But they are in a bind because they have only limited facilities and can't make the equipment fast enough. Drake spent a number of years developing the DSR-1. It was an incredibly difficult receiver to manufacture. They now have started to ship them at a rate of about 5 or 7 a week. They do have a substantial backlog of orders; even at \$2100 each they have sold 125!

(Please turn to the next page)



Son of Jeanne and Perry at work in stockroom.

Q And A With Perry Ferrell (Cont.)

Ed: I would like to know your feelings in the longtime "tube vs. transistor" controversy. A common pro-tube belief is that tubes outperform transistors in rx circuits because they have been perfected whereas transistors have not. Seemingly there is truth in this since both the Drake SW-4A and R-4B use both tubes and transistors for greatest reliability. Is it true in 1973 that tubes still outperform transistors?

Perry: Not really. I think you can get better performance solid state than with tubes now, with one exception--that's in the mixer stages. There are still some things to be done in solid mixer stages, but that problem may be solved this year.

Ed: What do you feel is a good beginner's rx around \$100?

Perry: The Radio Shack DX-150B--an enormous value for the money.

Ed: Tell us a little about the versatility and quality of the Barlow-Wadley XCR-30?

Perry: The B-W circuit design is vastly different from any other rx on the market, except for those costing around \$4000. I personally think it is the receiver of the future when it is perfected. The manufacturer is undergoing some growing pains in maintaining quality control. Once he solves the problem, I think he will enlarge his receiver line to incorporate a portable with FM to go with the XCR-30 and a base station receiver analagous to the SPR-4, but that may be as much as 2 to 2½ years away.

Ed: Can you tell us something about your lend-lease idea?

Perry: We've been considering the possibility of taking the Hammarlund HQ-225 receivers, which might lend themselves to being leased, taking a down payment for a rental like you would rent a car. We think that as receivers keep improving, the user would not be spending outright as many dollars as he might otherwise to buy a new rx. This may also encourage people who don't have cash in hand to get a good receiver on lease.

Ed: Turning to the antenna market, is there anything especially new?

Perry: Yes, there is an antenna company in England that has produced a vertical antenna 18 feet long and their operating

"The best receiver I have ever used, regardless of cost? On the international SWBC bands I still use the Squires-Sanders IBS. I think if I were primarily interested in MW I would still stick with the HQ-180A as the best rx on that band because of its enormous flexibility. For top performance, if I had to settle on anything, I would be inclined to lean toward the DSR-1."
 ...Perry Ferrell

basis is to have a matching transformer at the base of the antenna, to be mounted to the side of the building. We've been in contact with the manufacturer (they are not in production) and we've got one of the first prototypes off the line. After testing it, it looks like the perfect antenna for
 (Turn to next page)

— Enough To Make A Grown Man Cry —

Some wives share their husbands' interest in SWLing. That it is not true with mine can be best illustrated by the following:

I was listening to News Focus on Radio Australia. Following a commentary by their U.N. correspondent, I remarked to my wife "Isn't that amazing? Here he's talking in New York; it's going all the way to Australia and we're hearing it from there." To which my wife innocently replied: "Isn't that a waste of time? Why don't you get it direct from New York?" Ed Ricchezza

Feedback --Bill Matthews (where have we heard that name before?) postcards from Columbus, Ohio, that our item about the improbability of "Stars and Stripes Forever" being played by Radio Moscow is incorrect. Writes Bill, "Radio Moscow does play The Stars and Stripes—at least they did for years on a program called 'Hands Across the Ocean(or was it 'Sea?')'. Believe it or not, it was (is?) the opening theme song. Program dealt with Soviet-American friendship." Tnx, Bill. (Bill is a former SWC editor and one of the best).

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GILFER (Concluded)---people with high-impedance inputs to their receivers which include most Jap portables, for instance, and the Barlow-Wadley.

Ed: Are you currently working on innovations you could describe?

Perry: Well, we're considering a variety of things. For example, Eddie Startz's Flashback, originally considered publishable as a book. We're now thinking of putting it out as an LP record since he is better known for his voice. This we feel would be a better tribute and memorial to him than a book. Equipment-wise, we're also considering the practicability of some sort of repair and alignment facility for SW receivers. We have two books we'll probably release within the next 18 months: an updated version of Dr. Wood's "SW Voices of the World" and the SWL address book to be assembled by Gregg A. Calkin. We are investigating the practicality of developing our own SW antenna primarily for DXing 49,41,60 and 90 meters. It would be at least 100 feet long and fed most likely from one end instead of the center.

Ed: Do you have something that you would like to add or say at this time, since I've been firing all the questions?

Perry: We have seen a phenomenal growth in the past 6 to 8 months in the number of SWLers. The question, of course, is: is it because people are becoming aware of us or is it intrinsically an interest in SWLing per se? We don't know right at this moment. We also see a reflection of this in the growth of clubs and responses to our advertisements, the number of phone calls and letters of inquiry we receive. They are well above double that which we received last year at this time. ..There's a lot of other things I can tell you about the SW business!

Ed: I'm sure you could! You've told me a lot during this interview alone. On behalf of NASWA and myself, we thank you very much for providing insight and expertise into the world of SWLing.

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TEN TOUGHEST COUNTRIES TO LOG IN NORTH AMERICA: 1. Falkland. 2. Maldives. 3. Mongolia. 4. Yemen (Sana'a). 5. Kirghiz SSR. 6. British Somalia (Hargeisa). 7. South Yemen (Aden). 8. Comores Islands. 9. Greenland. 10. Italian Somalia (Mogadiscio)....Bill Flynn, California.

HOW ABOUT YOUR LIST? SEND IT IN!

The Adventures
Of Shortwave Ohms
(And Watt's Son)



THE MYSTERIOUS CASE OF...
THE VOICE OF THE GALAPAH GHOST

By RALPH W. PERRY

THE SCENE: A small, barren room, located on the outskirts of Greenville, N.C., adorned only by a DW 1958 calendar decorously hanging on one wall, and on another, an autographed picture of Dan Ferguson. Shortwave Ohms is sitting in an easy chair, engaged in his own Greenwich Mean Time; drawing mustaches on the FRENDX picture page and sending anonymous reports to the VOA. The pipe of his ever-present and faithful companion, Dr. Watt's Son, is filling the dingy office with billowing clouds of pungent smoke.

"Good Gilfer, Watt's Son!" Ohms coughed as he stumbled through the smokescreen to open a window. He wrenched the uncooperative window open, only to be met with "...this program is coming to ...". He closed the vent and muttered a small curse, shaking a fist at the VOA tower a mere mile away.

"Telly, Watt's Son?" Ohms chirped as he flicked on the tube. "...to you from..." He turned it off. Mumbling something incoherent, he wandered over to the refrigerator--- it was 4 p.m. and winter, obviously iced-tea time--- and swung open the white porcelain door. Again, the familiar voice "...to you from the United States of America. Brrree dee dee deet, brrret ddee dee, brrret dit dee dee deeee dah, brr..." He lunged for the jug of tea and violently slammed the refrigerator door.

"Watt's Son, sometimes I doubt the wisdom of living so near to this doggone transmitter site.." Ohms settled back into his goose-down chair. His mind was disturbed from its ever-so-short reverie when he realized that once again the familiar tune of Yankee Doodle could be discerned in the static of his hearing aid. A sad smile crept across Ohms' face and he resigned himself to the flutes and patriotic drums, even going so far as to tap his feet.

Suddenly, Yankee ceased his doodling and in its place a series of noises similar to the dying groans of a giant tortoise!

"Watt's Son!" he gasped, while quickly cranking up the transistorized gizmo FB and plugging it into the auxiliary speaker of his Alleycatter 54---and just in time for Watt's Son, also, to hear a snarling voice, the incarnation of QRN, exclaim:

"Heh-heh, Ohms, this is the Voice of the Galapah Ghost! I and my merely mortal friend/fiend, the sinister Dr. Cruel Essel, are about to end once and for all the sickeningly engrossing enjoyment of DX-ing. We plan, Ohms, to start our own shortwave station, the VOICE OF THE GALAPAH GHOST!!"

"Ohms, I don't understand!"

"When have you ever, Watt's Son?" snapped Ohms.

The voice continued..."the crux of the matter, my dear Ohms, is that we will operate on ALL frequencies **cackle** and at all times day and night!! Incidentally, we intend, furthermore, to broadcast the same program over and over again. And then again! Imagine, Ohms, Tips for Real Living, 24 hours a day, forever!..cackle."

"Your only clue," the voice continued, "if you wish to attempt to engaged in the folly of trying to stymie me, Ohms, is this: BEWARE OF THE CLOCK ON THE ROCK. Ha, ha!!"

Watt's Son nearly choked on the stub of his pipe. "The Clock on the Rock indeed!!

(Please turn to the next page)



ADVENTURES OF SHORTWAVE OHMS By Ralph Perry (Cont.)

Good Gravy, Ohms! What fiendish mind is perpetrating this evil scheme-- and why???"

Strangely, Ohms sat calmly, and a swift-to-the-quick deduction ended the mystery and the threat of the Galapah Ghost.

"Relax, Watt's Son. Our old arich-enemies have forgotten one small thing. One detail that totally disrupts their scheme and dashes hopes of those vile cads!" Watt's Son knitted his eyebrows, his mouth hanging open.

"Don't you see, it Watt's Son olf boy?" Our friend the Galapah Ghost has forgotten the year is 1973!"

"Blimey, Ohms, I can't catch your wavelength." Watt's Son scratched his head.

"Elementary, my dear Watt's Son. By the CLOCK ON THE ROCK, our friends are obviously alluding to Boulder, Colorado, the old site of WWV. The Galapah Ghost and his cmony the sinister Mr. Cruel Essel had mistakingly planned to reactivate the equipment left fallow in Boulder by the National Bureau of Standards when the move to Fort Collins was made. Yes, Watt's Son, reactivate those transmitters--- to serve their own evil purposes!!"

"Suffering sub-audible harmonics!" gasped Watt's Son. "But why, Ohms, why oh why aren't you worried? You act as if the case is already solved."

"Well, chums, it is this simple. Although the story is being written in the 1970's, the Galapah Ghost has mistakingly assumed that the date is also such. Nonsense! Why look at my DW calendar on the wall! Old boy, it's 1958! The WWV won't be moving from Boulder for more than 10 years from now. The transmitters which they'd hoped to seize are thus, to be succinct, 'taken' for some time to come! Case closed!" Ohms sat down, smiled and began to type another anonymous report to the VOA.

"Oh, yes, I almost forgot," added a self-pleased Shortwave Ohms. "As you know, old boy, in each of my last 43 adventures I've always closed with a short moral. And this is my sermah in the case of the GG: how twisted people become when they allow their goals to become so false!"

"Quite so, Ohms," Watt's Son blundered.

"Ah, well, c'mon dear fellow," Ohms smiled. "How about helping me finish this report to Falklands? Heard 'em yesterday at 1700 GMT. "

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DX Tips

One important factor in getting QSLs from the tougher to verify stations is to get your report into the right hands. Obviously, if you know the verie signer (V/S), the person who signed some other DX'ers QSL, your odds improve if you address your report to this person. A report addressed to, for instance, Sr. Jose Sanchez M., stands a far better chance of being read, and hopefully answered, than does one addressed merely, La Voz de XXXX! But even when you don't know the name of an individual, there are a few tricks that seem to move the odds a bit in your favor. A title, even without a name, can help. Experience may offer some clues. For instance, in Latin America, most QSLs from small, off-beat stations are signed by the head man, the Director or Gerente. There doesn't seem to be much purpose in sending a report to the Chief Engineer at a LA station. On the other hand, when reporting the regional All India Radio stations, domestic services, often it seems the assistant station engineer is exactly the person assigned to answer reports and a report addressed to the station's big wheel is a waste of time. Check your own QSL returns and see who signed them. It may give you a hint as to the proper authority to write when reporting another station in that country.

(Send in your DX Tip!)

.... Don Jensen

Looking through the QSL report, I notice that only a small minority of DXers use mint stamps for return postage. The overwhelming majority of reporters use only International Reply Coupons. It seems to me as if there is a big information gap about the procurement and use of mint foreign stamps. It also occurred to me that several misconceptions probably exist about mint stamps.

Before I began to use stamps I had three excuses for sticking to IRC's and I think they are probably the most common. They are:

1. I have no idea where to get mint stamps of foreign countries.
2. They are probably too expensive anyway.
3. There's probably a big delay in getting the stamps once you order them and I want to get my reports out as quickly as possible.

Let's examine these reasons. EXPENSE--In almost all cases, mint stamps are cheaper than their equivalent in IRC's. Looking down my price list, I can find only one instance where IRC's would be cheaper. Mint stamps for an airmail reply from Burma are 75¢. Typical examples of saving money by using mint stamps are (all prices are airmail reply to the U.S.): New Zealand, 35¢; Angola, 40¢; Japan, 40¢; Luxembourg, 30¢; Chile, 25¢; Guatemala, 20¢. Obviously, mint stamps generally cost less than the equivalent IRC's which now cost 22¢ each. (One IRC is supposed to buy you the cost of sea mail transport from the target country to your QTH; air mail will obviously cost you several, maybe as high as 5 IRC's.) The stamp prices listed above are from the list of the DX Stamp Service, 83 Roder Parkway, Ontario, N.Y. 14519. The service is excellent and dependable and the proprietor, G.N. Robertson, is very helpful when a problem arises. Send a SASE and ask for his current price list. With inflation it changes from time to

time. With orders of \$2 or over he will pay postage; with orders under \$2 you should send a SASE. DELAYS: True, it does generally take about a week for your stamps to arrive. This time is more than made up for in the speedier replies you get from stations. Since the ultimate concern is the length of time it takes to get a QSL, your investment of one week generally pays off. In addition, stations do appreciate it when you send mint stamps and are often more cooperative than usual. And in some countries it is difficult, even impossible, to cash in IRC's. I don't advocate doing away with IRC's but I must admit I think of them only as a back-up method if MS are unobtainable. Anyway, send for a price list. What do you have to lose?



By
STEVE
SYKES

Stamp
Photos
Courtesy
ARAMCO
Magazine

Some
Data
Added By
Editor



ANDY

BY

KERR

Being
A DXer
Is

...having your sanity questioned because you get up in the middle of the night to listen to the radio.

...putting up your long wanted antenna and having your neighbor say, "It'll never fly, Orville."

...trying to convince the postal clerk you are not kidding, you indeed do want 20 International Reply Coupons.

...explaining to someone you are not a ham and having him ask why you don't become a ham

and be able to talk too.

...breaking the news to the family you are going to spend \$500 on a radio.

...getting dirty looks from the postal clerk when you sign for your two-pound package of propaganda from Radio Peking.

...having a neighbor who likes to run his arc welder right when you are about to ID Cook Islands.

...having someone yell, "Telephone!" at the top of the hour.

...explaining to your parents you are not going out on the town with your buddies because you wish to get up at 4 a.m. to try for this Indonesian station.

...blaming everyone in the house for your missing QSL and then finding it stuck in the WRTH.

...having your CB neighbor give you one of his "QSL" cards.

...being appointed the expert on all matters of electronics and electricity by other members of the family and being expected to fix the TV set any time it acts up.

...telling an acquaintance you listen to distant radio signals and having him tell you about a friend of his who is a ham radio operator in Hubbard Lake, Michigan and who once took him into his shack, fired up the rig and talked to some guy in Ohio or maybe it was Iowa.

...finding bills in your mailbox when you were looking for QSLs.



WORLD HOLIDAYS--- By Steve Sykes (Clip or make notes and save. We

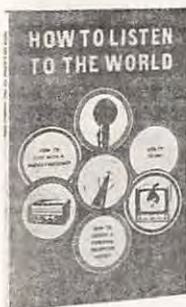
***Could be Extra DX

Hours on These Days***

run them in advance so you can plan ahead in your target book).

Abbreviation: D = Day, A=Approx.

- MAY 15-- Sabah (A), Harvest Festival; Liberia, Nat. Unif. Day; Malawi, Kamazu D; Paraguay, Independence D.
- 16-- Thailand, Visakha Bucha D; Laos, Vietnam (also 17th), Buddhist Holiday.
- 17-- Norway, Constitution D; Singapore, Vesak D.
- 18-- Denmark, General Prayer D; Haiti, Nat. Flag D; Uruguay, Anniv. of the Battle of Las Piedras.
- 19-- Turkey, Turkish Youth and Sports D.
- 20-- Zaire, MPR Day (?).
- 21-- Australia, Adelaide Cup D; Canada, Victoria D; Chile, Navy D.
- 22-- Haiti, Day of Sovereignty.
- 24-- British Honduras, Uganda, Lesotho, Commonwealth D; Ecuador, Anniv. Independ. Battle; Bulgaria, Slavonic Culture D.
- 25-- Libya, Rep. of Sudan Nat. D; Most African Countries, African Freedom D; Argentina, Nat. Holiday.
- 26-- Turkey (also 27th) Nat. Holiday.
- 27-- Afghanistan, Jordan, Independ. D.
- 31-- South Africa, Republic D.; Most Christian Countries, Ascension.



HOW TO LISTEN TO THE WORLD ---A REVIEW by A.V.S.

"How to Listen to the World-1973", the 7th edition of the popular guide to DXing put out by the publisher of the World Radio and Television Handbook, has just reached our shack. Since the hobby needs a publication like this and since there is no other, it is with sorrow that we have to label the 7th edition, in the popular parlance, a "rip-off." Rather strong language so let's lay the facts on the table right away.

The 6th edition cost \$3.95; the 7th is \$4.95. Justifiable cost increase on the surface of it in view of inflation. The 6th edition had 168 pages, the 7th, 160. O.K., negligible. BUT the last edition had 36 articles while the present has only 17.

How come, you ask? Well, for one thing the publisher has gone for larger body type. But mainly, while using the same size pages, he has instituted absurdly large margins of 2 inches at the top and outside of the page. Take a page that is 8 1/2 x 5 1/2 inches and you will see how little reading material you get. It is true this layout is attractive and easy to read--the entire book can be read in an evening but knowing DXers we are sure they would opt for less looks and more content. The book is not well illustrated either, the photos of authors are needlessly large and sometimes repeated 2 or 3 times.

As for the articles, what there is of them, they are fine although the SWL will find that less than half of them have to do with SW. There is a 30-page article and listing about clandestines by fellow FRENDEX editor Larry Magne that is almost worth the price of admission. An expert job. Prof. Richard E. Wood shows his usual expertise in 3 articles although his emphasis here is not so much on SW as other forms of DX. Another NASWAer writer, Ralph Perry, shows his gift for words in a fine rundown on "Improving Your Second Hand Receiver." It follows one by Gordie Nelson and Russ Edmunds on "How to Live with a Budget Receiver" which presents many eye-opening ideas but doesn't really get into them enough to help all but the most electronically-gifted DXers. There is also a really worthwhile description of the various kinds of Latin American music by Ronald F. Schatz (oh, for a record to go with it!) and, to us, a surprising revelation on a way to check frequency measurements by using a chromatic scale pitch pipe!

No, we have no quarrel with the contents of "How to Listen". It's just the quantity that irks us. And announced plans to produce the next edition "completely revised and produced in association with the BBC" are ominous. Who wants a subsidized "How to Listen"?

"How to Listen" may be obtained from various sources, including Gilfer for \$4.95 plus 50% mailing charge. (Review by Al Sizer).

G! May issue of SWC is going to be all 5 on the SINPO

scale. Don't miss it! There will be a fascinating yarn

by John Callarman on the famous Nibi Nibi caper. What

really did happen there? Richard Odlin tells of the vacation trip to Hawaii just to try and log the Cook Islands.

AND BIG NEWS! Ace DXer Jon Jensen has written a special series of 6 articles "On To The Top" aimed at the DXer who has

gone beyond the beginner stage and wants to make it all the

way. We've read it and we believe it's a real first for the hobby.

Succeeding issues will have a great article by Ed Shaw on using a tape recorder inDXing (by request of readers) and an unusual story on how one alert DXer, Al Reynolds, publicizes the hobby. And Earle "Doc" Hall, one of the greats inDXing, has promised two intriguing articles for FRENDEX. Come to think of it, where's your byline?

QSL Report

Gregg Calkin
P. O. Box 1345
Station "B"
Ottawa, Ontario K1P 5R4
CANADA

Telephone: (613) 232-0539

Deadline: 15th of month

HOW NOT TO INSULT YOUR VERIFICATION SIGNER!

This month we continue with our series on foreign names. Your kind comments on our earlier article dealing with Latin America are greatly appreciated. Now we turn our attention to certain Asian countries. And on we go....

Part II - INDONESIA

Indonesians may have one or more names, although many who have two or more usually use only one for most purposes as many DXers who have verified Indonesian stations know. Occasionally what appears to be the first name is a title, e.g. Raden, Datuk or Tengku, of which the latter two are rare. The word Haji appearing before a name denotes a person who has made a pilgrimage to Mecca. Titles can be generally disregarded without offence in conversation, but it is preferable to use them in correspondence.

Outside the Chinese community in Indonesia, surnames or family names are not widely used, although the practice is increasing. Where an Indonesian has more than one name, the following suggestions may help:

1. It is never offensive and often correct to select the first (or only) name and address the person as Mr., Mrs. or Miss.... In the case of Sujatmo Martosuharjo, for example, one would address the letter to Dear Mr. Sujatmo.
2. In the absence of a surname, identification is sometimes assisted by the use of the word bin (son) or binti (daughter), e.g. Achmad bin Ali means Achmad the son of Ali and he would be called Mr. Achmad.
3. The same name is often used in both formal and informal circumstances. For example, one would address an acquaintance as Mr. Arifin. Later, if friendship developed, Arifin (or a contraction) would be sufficient. This explains why QSLs are in many instances simply signed by a one word name.

Among themselves, Indonesians use a number of forms of address: Bung and Mas are roughly equivalent to the Australian 'mate'. Saudara means 'brother', Saudari means 'sister'. Bapak (father) and Tuan (Mr.) are used to show respect for a senior. Ibu (mother), Njonja (Mrs.) and Nona (Miss) have connotations of respect, but are also in general use.

Non-Indonesians should not use Bung, Mas or Saudara except to close friends but may use Tuan, Njonja and Nona. Generally speaking, however, Indonesians would expect to be addressed as Mr., Mrs., or Miss by English-speaking people, writing reports in English. If the Indonesian report form is used, however, the Indonesian equivalents might prove useful.

Correction: Readers are requested to correct the 3rd line of the 3rd paragraph in Part I to read: "or, more formally". All of which proves, typographically speaking, that your editor ought not to type his column at 4 A.M. hi hi

And now, something for Soviet DX enthusiasts. Turn on....

SOVIET ADDRESSES!

In as much as the WRTVH-73 is amazingly sparse on addresses for regional Home Service (or Foreign Service in some cases) programmes, member Kenneth A. Earhart of Allentown, Pa. dropped a line to our friend at Radio Moscow, Mrs. Eugenia Stepanova, who provided the following partial list which Ken kindly forwards for our usage:

- | | |
|-------------------|---|
| 1. Radio Baku | 1 M. Gusein Street, Baku 370011, USSR |
| 2. Radio Dushanbe | 17 Grizhonikidze St., Dushanbe 734025, USSR |
| 3. Radio Kiev | 26 Kreschatik Ave., Kiev, Ukraine, USSR |
| 4. Radio Minsk | 4 Krasnaya Street, Minsk, Byelorussia, USSR |
| 5. Radio Riga | Square 8, Riga, Latvia, USSR |
| 6. Radio Tallinn | 14 Kreizvaldi St., Tallinn, Estonia, USSR |
| 7. Radio Tashkent | 49 Khorezm Street, Tashkent, Uzbekistan, USSR |
| 8. Radio Tbilisi | 68 Lenin Street, Tbilisi, Georgia, USSR |
| 9. Radio Vilnius | 49 Konarsky Street, Vilnius, Lithuania, USSR |
| 10. Radio Yerevan | 5 Mravian Street, Yerevan, Armenia, USSR |

If the above addresses prove useful in obtaining replies, members are requested to mention it in their QSL REPORTs. Tnx Ken for sharing.

QSLs RECEIVED

All in all, Gentlemen, March was a very good month. Our featured QSLs this month include rare verifications from Azad Kashmir, Guinea, Kazakh SSR, Mauritius, Abu Dhabi (United Arab Emirates), Yemen, Zaire (R. Bukavu), Zanzibar plus several rare QSLs from India and Indonesia. On the Latin American scene many unusual veries are in in Bolivia, Dominican Republic, Ecuador, Nicaragua and Venezuela. The rarely heard Ulan Bator (Mongolia) has also been verified.

- ALGERIA: Radiodif. TV Algerienne, 15405/15415, separate cards seemail in 8 weeks; new style folding cards, w/QSL text in EE/AA/FF with details of reception (Padula)
- ANGOLA: Radio Clube de Cabinda, 5033 (nom. 5035) letter from V/S: De V. Eva with sked and verie statement for NASWA Portuguese report and IRCs. 5 weeks in all (Perry)
- Radio Clube do Huambo, 3345, drummer card in 7 languages in 18 days for 3 IRCs. Reported in Portuguese. (Henderson)
- Radio Clube do Lobito, 4937, card in 24 days for 3 IRCs. Reply by air for report in Portuguese. (Henderson) card, jungle scene drawing plus station shield and name/address on front; no data multi-lingual veri stmnt on reverse. Very same text as the Cuanza Sul card. Air in 2½ weeks after English rpt and mint stamps (Berg)
- Radio Clube do Mexico, 5005, letter in 2 months on 3rd try after receiving letter 1 month earlier. V/S: Antonio Manuel Pinhuro. Reply by air for SASE, not used. (Field)
- ARGENTINA: RAE, 9690, no data green card in 120 days air for 2 IRCs. Also sent a sked and tourist information. (Wiseberg)
- ASCENSION IS: BBC, 6005, card reading "Atlantic Relay" in 5 weeks. (Barto)
- AUSTRALIA: Radio Australia, 17795/15320, card in 5 months seemail (Barto)
- VLH9, 9680, card in 7 months w/full data. (Barto)
- AZAD KASHMIR: Azad Kashmir Radio, Trarkhel, 4731, prepared card returned with full data. 20 days for 2 IRCs. (Henderson) returned my prepared card for mint stamps; station seal added. 1 month. (Perry) See QSL-3 for Ralph's QSL. (Ed.)
- AZORES: Emis. Regional dos Acores, Ponta Delgada, 4865, card of ship from Lisbon in 3 months air. IRC sent. (Field) 6 weeks after f/up sent to Azores, but QSL from Lisbon. First report to Lisbon netted no reply. 2 IRCs and local post card with Portuguese report. (Reeves) QSLs normally come from Lisbon no matter where reports or follow-ups are sent. (Ed.)

BANGLADESH: Radio Bangladesh, Dacca, 17935, card with all details in 3 weeks air. (Padula)

VERIFICATION CARD

QSL QSL

QSL QSL

Station: Azad Kashmir RadioLocation: Trarkhel, Azad KashmirFrequency: 4730 kHzWavelength: 63.42 metersTime: 1253-1312 GMT

1753-1812 WPST

Date: 3rd February 1973

This is to confirm that we have examined your reception report, Mr. Ralph W. Perry, and have found the details therein to be correct. Your report is hereby verified.

Azad Kashmir Radio,
Trarkhel,
(Via Rawalpindi)

Azad Kashmir Radio
Official Station Rubber Stamp


Signature, Station Manager

BOLIVIA: Radio Nacional, Cochabamba, replied by long friendly letter in English fm: James Christie, Manager, in 21 days airmail for mint stamps. Station broadcasts on a 20 hr schedule daily from 0900-0500 GMT on 5973 kHz. (Hall) Very nice OM. (Ed.)

La Cruz del Sur, La Paz, 4875, attractive antenna/mountain/llama card with frequency only in 4 months, 20 days for English report and 2 IRCs. (Freeland)

BOUGAINVILLE IS: Radio Bougainville, 3322.5, form letter with full data typed in in 16 days air for one IRC and an English report. V/S: Keith Jackson. (Mayer)

BRAZIL: RTV Bandeirantes, 11925, mimeo letter, without data, in 16 days for 2 IRCs. (Plum)

R. Clube Ribeirão Preto, Portuguese letter and yellow-black decal in 5 weeks air for mint stamps, used US stamps and Portuguese report form. (Reeves)

BURUNDI: Bujumbura, 2 cards for 3300 and 6140 kHz in 22 and 30 days airmail. V/S: Le Chef du Service Technique. Mint stamps sent. (Hall) white folded card w/radio tower and all data in 6 weeks for 1 IRC. (Behr)

BYELORUSSIAN S.S.R. Radio Moscow, Minsk, 5920, card in 1 month giving site for UK service (Calkin) 2 months air for no IRCs. (Wiseberg)

CANADA: Radio Canada International, 11720, card in 40 days w/full data (Castello)

Deutsche Welle relay, 9605, card in 5 months for Sackville (Barto)

CHNX, Halifax, 6130, card in 1 month from Patricia A. Walsh, Secretary.

(Conner)

CENTRAL AFRICAN REP: Radiodif. Nationale, 5038.5, form letter w/date, time and veri stmnt by air in 85 days for French report form. (Watman)

CHAD: Fort-Lamy, 4905, long card w/photo inserts and station name on front; 7 weeks for 2 IRCs. (Behr)

CLANDESTINE (Laos): La Voix du Pathet Leo has replied in 6 wks from Hanoi with form letter for bilingual report (Vietnamese & French) without return postage. NY Times dispatches from Vientiane have several times located these broadcasts as emanating from Sam Neua, Laos. (Sizer) 6200, letter in French w/date only plus sked and calendar. V/S: Oun Heuan Phounsavath; 6 months seammal for French report and 2 IRCs. Replied from Hanoi, DRVN. (Norke)

CONGO: RTVC, Brazzaville, mileo form with full details in 20 days air (Hall) 30 days for 15190 kHz; sked also received. (Roberts) See QSL-4 (Ed.)

COLOMBIA: Ondas del Darién, 6085, letter & pen of station with "Cadena Radial Porvenir". V/S: Javier Bentan Corert G., Gerente General. Air in 3 months. (Field)

REPUBLIQUE POPULAIRE DU CONGO
Travail - Démocratie - Paix
Voix de la Révolution Congolaise
(Service Technique de la R.T.C.)

SECTION EXPLOITATION

Nous avons le plaisir de confirmer votre rapport - ~~xxxxxxx~~ de réception
tion du 31.12.72...de 21h00...à...21h00...GMT
.....deà..... GMT
.....deà GMT

écoute faite sur la fréquence - ~~xxxx~~fréquences de ...15.190... Khz

Notre Station émet aux heures GMT de 04h30 à 23h00 sur les Fréquences
suivantes :

| <u>De 04h30 à 07h00</u> | | <u>De 07h00 à 17h00</u> | | <u>De 17h00 à 23h00</u> | |
|-------------------------|------|-------------------------|------|-------------------------|------|
| 1.475 | 4Kw | 1.475 | 4Kw | 1.475 | 4Kw |
| 3.232 | " | 3.232 | " | 3.232 | " |
| 6.115 | 50Kw | 4.795 | " | 4.765 | 50Kw |
| 4.765 | 50Kw | 7.175 | 25Kw | 9.715 | 50Kw |
| | | 9.610 | 50Kw | 15.190 | 50Kw |

De 10h30 à 14h00

15.190 50Kw

Notre adresse : VOIX DE LA REVOLUTION CONGOLAISE B.P. 2.241 - BRAZZAVILLE
REPUBLIQUE POPULAIRE DU CONGO

Nous vous souhaitons de bonnes conditions d'écoute.

(Thanks to Malcolm Archard of Ludington, Michigan, who shows us this QSL
from Brazzaville, Congo.)

COLOMBIA: Ondas del Meta, 4885, letter and 45 rpm records of LA music in 26 days; mint stamps sent. V/S: Jairo E. Cifuentes, Gerente. (Sparks) Note that the V/S is the same man at Ondas del Meta as at La Voz del Llano below. (Ed.)

La Voz del Llano, Villavicencio, 6115, friendly letter from V/S: Jairo E. Cifuentes, Gerente; 8 weeks airmail together with large station bumper sticker. Letter, which is vague, extends invitation to visit station if in town. (Calkin)

Radio Continental, 6125, special delivery letter in 2 weeks on 4th try. SASE sent but not used. (Field)

Radio Santa Fe, HJAK, 4965, map card and pennant from V/S: Luisa Mahe V. de Bernal in 18 days for Spanish report and 2 IRCs. (Straus)

COMORES: ORTF, 7260, card in 4 weeks airmail for French report. Sked also sent w/ QSL. (Barto)

Le Chef des Services Techniques
de l'Office de Radiodiffusion Télévisio
Française pour l'Archipel des Comores

Nous avons le plaisir de confirmer
votre rapport d'écoute du 10/04/73
de 14h - 15h heures GMT
et vous précisons que Radio Moroni émet
aux heures et sur les fréquences suivantes:

| | | | | |
|---------------------|---|----------|---|--------|
| 3h.30 à 4h.30 GMT | - | 3331 kHz | - | 90,06m |
| 9h.00 à 11h.00 GMT | - | 7260 kHz | - | 41,32m |
| 15h.00 à 16h.30 GMT | - | 3331 kHz | - | 90,06m |

COSTA RICA: Faro del Caribe, San José, red/white/black card airmail in 15 days w/ full details, plus personal letter and enclosures. V/S: Don Federico Picado O., Gerente. Letter from Sharon E. Saylor, Sec'y as well. (Hall)

CUBA: Radio Habana, 11760 kHz, yellow card in 66 days airmail; no IRCs. Full data. (Castello)

DAHOMY: Cotonou, 4870, beautiful 6-color p/card QSL w/date & time; airmail in 2 weeks for mint stamps and French report on the 6th try. (Norko) card in 1 month air giving new call as "La Voix de la Révolution". (Field)

DOMINICAN REPUBLIC: Radio Antillas, 4960, card in 3 months air; full data from V/S: Manuel Zaglul, Director. (Field)

Radio Television Dominicana, 9505, letter, pennant and stamps for Spanish report and mint stamps; 7 weeks. (Conner) form letter in 21 days from V/S: R. A. Font Bernard together with nice pennant and sked. (Paschke)

HIN, 4912, attractive card in 15 days air w/sked from V/S: Teofilo E. Veras, Productor. Reported in Spanish with mint stamps. (Calkin)

ECUADOR: HCJB, 11745, card in 3 weeks air from Samuel Rowley, Director of Engineering. (Field)

Emisora Cultural, Luz y Vida, HCAV3, 4825, letter in 5 weeks for Spanish report and 1 IRC. V/S: Ruben Dario Roman, Gerente. (Barto) 12 weeks airmail for mint stamps. Same V/S as above. (Sparks)



RADIODIFUSORA
MENSAJE DE FE Y DE CULTURA

LA EMISORA MAS POTENTE DE LA PROVINCIA DEL TUNGURAHUA

ONDA LARGA 1345 kcs.
ONDA CORTA 4520 kcs.
F. M. 104.9 Mcs.

TELEFONOS: AMBATO 21-20
QUITO: 511-189
Apartado No. 84

14 de f

Señor
Gregg A. Calkin
Ottawa.

RADIODIFUSORA



Saluda a sus amigos

Onda Internacional 4520 Kcs. banda de los 62 Mcs.
Onda Larga 1345 Kcs.
F.M. 104.9 Mcs.

APARTADO POSTAL 84 - AMBATO-ECUADOR

Director y Redactor de Radio, cuánto le
orientaciones o me indique alguna obra para a
mejorante servicio.

por un religioso franciscano, periodista y hoy Director
importante medio de comunicación en el centro del país.

Con toda distinción y hasta una próxima ocasión.

Padre Jorge Enriquez

MAYOR AUDITORIO MEJORES PROGRAMAS MAS POTENCIA



ECUADOR: Radio Centinela del Sur, Loja, 5020, letter w/all detail's, plus New Years card in 2 weeks. V/S: Hernan Coronel V. Reply by air for SASE, not used. (Field)

Radio Iris, 3380, letter from V/S: Daniel Alvarez Tenorio, Gerente Proprietario, in 1 month airmail for Spanish report and mint stamps. Letter, which gives veri stmnt, date and freq. and states I am first reporter from Canada, bills station as "la emisora mas antigua de la provincia con los equipos mas modernos". (Calkin)

Radio Paz y Bien, 4820, friendly letter and card from V/S: Padre Jorge Enrique Silva who gives verie stmnt, date and freq. Reported in Spanish w/mint stamps. Reply in 3 months, 1 month after f/up. QSL shown on QSL-6. (Calkin)

Radio Zaracay, 3390, friendly letter from V/S: Holger Velastegui Dominguez, Gerente-Proprietario in 9 weeks airmail for report in Spanish w/mint stamps. Vague confirmation and gives date only. (Calkin)

EGYPT: Cairo, 17920, 17655, 12005, 9805, 9850, 17625; cards in 3 months. QSLs are beautiful photo QSLs of Louxor Temple, Asswan, Nile etc. (Carto)

EL SALVADOR: Radio Nacional, YSS, 5980, card w/freq. only in 150 days by registered airmail for Spanish report and 2 IRCs. Also sent a pennant and tourist information. (Wiseberg) 5 weeks air for mint stamps. (Reeves)

ENGLAND: BBC, 9640, Thames card in 69 days (Paschke)

ESTONIA: Radio Moscow, Tallinn, 6050, card w/site in 7 weeks for UK service. (Barto) Radio Tallinn, 6085, p/card w/city design; 5 months after first card for same report received. No f/up or IRCs. (Behr)

ETHIOPIA: ETLF, Addis Ababa, blue/white card w/full data (Paschke) 2 months (Conner) Radio Ethiopia, 9585, multicoloured p/p/card showing Addis by night. Sked also provided, but no confirmation details, just "Your QSL confirmed". 5 months air after f/up in EE. (Foster) 3½ months, 8 days after f/up (Perry)

FRANCE: ORTF, Paris, 15120, full data French card in 90 days seammil; 2 IRCs sent. (Wiseberg)

GABON: La Voix de la Renovation, 4777, map card in 2 months air for 1 IRC. (Field)

GALAPAGOS IS: La Voz de Galapagos, 3520, card and personal letter in 32 days from V/S: Jorge Narvaez. Mint stamps sent. (Hall)

GEORGIAN SSR: Radio Moscow, Tbilisi, 11820, card w/site for African service, plus cordial letter from Head of the African EE Dept. 4 months (Perry)

G.D.R. RBI, 9730, card in 119 days seammil. (Paschke) 11700, card in 4 months (Barto) G.F.R. Deutsche Welle, cards in 5 months seammil for 6100/Julich and 6185/Wertachtal (Barto)

GREECE: VOA/Kavala, 7170, card airmail in 1 month returning US mint stamp (Calkin) 9680, card in 2 weeks (Plum) 11705, card seammil in 14 weeks (Padula)

NHBI/Avlis, 21610, 7215, 6075, separate cards in 4 weeks air (Padula) 23 days for 5960 from the Director of Technical Services. (Roberts) 15425, card w/site in 13 days after first card returned for site inclusion. (Dexter)

GREENLAND: Grønlands Radio, card-folder in 5 weeks air for 2 IRCs. (Reeves)

GUAM: Time Signal, 4955, card with full data in 18 days for this rarely heard freq. (Michalenska)

GUINEA: Conakry, 9650, returned my prepared card w/full data in 15 weeks air for FF report and SASE on 9th try in 2 years. (Norko)

HAITI: 4VEJ, Cap Haitien, 11835, card air in 60 days plus letter and sked (Paschke)

HAWAII: WWVH, native warrior and island of Kauai card in 3 wks for 15000 (Richards)

HONDURAS: Radio Progreso, 4920, full data veri-letter and pennant in 13 days for SS report, mint stamps and p/p/card. V/S: Jerry E. Tolle (Freeland) 12 days for SS rpt and 2 IRCs. (Reeves)

INDIA: AIR/Delhi, 11810, full data sculpture card in 120 days sea (Wiseberg)

AIR/Madras, 15335, fully-detailed letter from V/S: D. P. Ramachandra, Audiance Research Officer. 25 days air direct from Madras for no IRCs. (Foster) 4920, 19

days by full detail letter returning mint stamps. Same V/S. (Henderson)

AIR/Aligarh, 11740, 2 cards with site after several tries to get the site included. 9 weeks. (Dexter)

AIR/Calcutta, 4820, orange/green AIR card with verie stant and freq. in 17 days air for mint stamps. (Henderson)

INDONESIA: RRI/Palembang (Sumatra), 4855, prepared card returned by Mr. Slamet Poedjono in 4 weeks, seamaill; no IRCs. Asks that we use Indonesian stamps as IRCs are no good. (Young)

RRI/Menado (Celebes), 5987, English letter with no details except verie stant in 21 days air for 3 IRCs. Reported in English. (Henderson) 9 weeks air for II report without return postage. V/S: Hein Wuisang, Staff Representative. (Foster)

RRI/Mataram, 3223, full data Indonesian letter in 18 days for mint stamps. Reported in Indonesian. V/S: Dawogd. 3 IRCs sent. (Henderson)

RRI/Ambon, 4839, letter and card airmail from V/S: A. W. Rakimin; 6 weeks airmail. V/S said that that report took 4 weeks to reach him, although air (Padula)

INTERNATIONAL WATERS (Holland): Radio Nordsee International, ship photo card by air for 6205 kHz (Richards) two months for personal letter and 3 IRCs. (Kaufman)

IRAN: Radio Iran, 15084, plain white card with full data in 28 days via registered air; after 4 tries. (Watman) 7065, card in 6 weeks air for 1 IRC (Foster)

ISRAEL: Kol Israel, 11900, test freq., card, sked and magazine in 4 weeks (Padula)

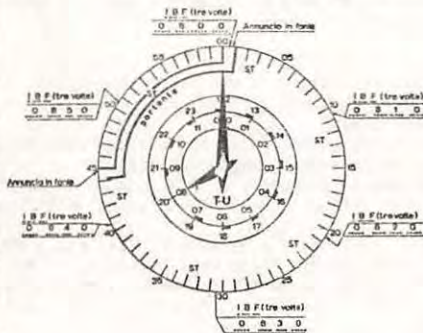
ITALY: IBF/5000 kHz, Turin, 9 weeks airmail. Full data card for no IRCs. (Barto)

ISTITUTO ELETTROTECNICO NAZIONALE "GALILEO FERRARIS" - TORINO

STAZIONE PER SEGNALI
DI TEMPO E FREQUENZA
CAMPIONE

IBF

STANDARD TIME
AND FREQUENCY STATION



Si conferma, ringraziando, il
rapporto di ricezione
This is to confirm, with thanks,
your reception report

di **IBF**

del December 15, 1972
on
alle 0700 tempo universale.
at universal time.

LA DIREZIONE
DIRECTION

JAPAN: Radio Japan/NHK, 15445, card of traditional masks; air in 11 days. No IRCs. Station also sent FDC. (Paschke) 7140, Modern Tokyo card in 9 weeks (Barto) 15105, 35th anniversary card in 1 month (Field)

JORDAN: Amman, full veri mimeo letter and sked in 1 month air for IRC and p/card. According to QSL station calling itself Radio Jordan. (Reeves) mimeo letter w/few details. (Wootten)

KAZAKH S.S.R. Alma-Ata, card direct in Russian for EE report and IRCs. Card has date frequency and handwritten verie message in Russian. (Perry)

KUWAIT: Radio Kuwait, 15415, folding colored card and sked; air in 3 weeks (Padula)

LIBERIA: ELWA, Monrovia, 11940 kHz, native drummer card in 2 months air (Plum)
LITHUANIAN SSR: "Radio Vilnius" programme, 7160, card in 136 days air; no IRCs.
 (Richards) 7 weeks from Vilnius (Padula) -land
LUXEMBOURG: Radio Luxembourg, 6090, antenna card with full data in 5 mths (Free/

MALI: Radio Mali, 4785, full data yellow/brown/black African map card in 46 days for English report and 2 IRCs. (Freeland)

MARTINIQUE: ORTF, card for 4895 kHz in 1 month air (Field)

MAURITIUS: MBC, 9710, card in 2½ months from the C.E., who says reports answered if 2 IRCs enclosed and correct. (Young) 5 months after original; 2 weeks after f/up carbon. 3 IRCs sent. (Berg)

MEXICO: Radio Huayacocotla, 2390, letter and photo album of station in 2 months on 3rd try from V/S: Rosa Ma. Meza, Directora. SASE sent but not used. (Field)

MONGOLIA: Ulan Bator, 17780, full data letter and p/p/card w/sked in 108 days for EE report and 2 IRCs (Norko)

MOZAMBIQUE: RCM, Beira, 4890, multicoloured card showing statue in front of RCM studios. 2 weeks air after f/up. (Foster)

NEW BRITAIN: Radio Rabaul, 3385, large PNG map folder with full veri data; 15 days for 1 IRC. (Behr)

NICARAGUA: Radio Mar, 9580, letter from Ricardo Perez Ulloa for Gilfer's trilingual report form. (Kaufman) letter in 5 weeks also returning IRC paper clipped to outside of envelope (!!) (Reeves) letter in 1 month for 3 IRCs and Perez promised pennant subsequently. (Word)

Radio Atlantico, 6120, personal letter in Spanish in 2 weeks on 3rd try. P/card also sent w/QSL. SASE sent and used. (Field) Very good Marlin. Signer? (Ed.)
NIGERIA: NBC/Sokoto, 6195, NBC card specifying site; complete data in 6 weeks for 3 IRCs which were returned. (Perry) card from Lagos specifying site in 7 weeks air. (Dexter) 1 month w/sked. (Field)

NBC/Enugu, 6025, white card with site and all data in 7 wks from Lagos. (Behr) 5 weeks air returning IRCs (Young)mimeo letter in 1 month for 3 IRCs (Perry)



PAPUA: VLK3, Port Moresby, 3925, full data card in 41 days for 1 IRC. Note on card says that for future ref, airmail replies need 3 IRCs. (Freeland) 4890, 1 month air (Richards) 20 days for 2 IRCs (Straus) 3 days for IRC & EE report (Watman)

PERU: Radio Arequipa, 5950, note on business card of Director plus beautiful pennant. V/S: D. Rufino Zuniga G., Director-General. Air for SASE, not used. (Field)
 Radio Sudamérica, 6198, letter air in 2 wks after f/up. (Dexter)

RHODESIA: RBC, card in 14 days air from E. McKenzie, C.E. (Hall) 18 days for 2 IRCs (Freeland) 23 days air for 1 IRC (Hall) 14 days for 2425 (Hall) 3396, 21 days air for 1 IRC (Mayer)

R.S.F.S.R. Radio Moscow, Armavir, 7100, card in 7 weeks w/site. No IRC. (Barto)
Radio Moscow, Kazan, 6175, 50th Anniversary card in 1 month w/site. Freq. rounded off to 6170 as per Moscow habit. (Calkin)

Radio Moscow, Khabarovsk, 12050, full data anniversary card in 40 days air w/site, plus letter, 2 p/cards and rpt form. (Wiseberg)

Radio Moscow, Konevo, 11850, card for WCNA SCE with site given (d'Adolf)
Radio Moscow, Serpukhov, 5940, card in 4 weeks w/site. No IRC. (Barto)

SAL. ABIA: 11950, card of crossed swords and date palm; full data typed in by V/S: Werner Storg. 6 $\frac{1}{2}$ weeks air for 2 IRCs. (Poster)

SENEGAL: Dakar, 4890, b/w instrument card in 5 weeks (Barto) (Straus)

SEYCHELLES: FEBA, Mahé, 11955, card and sked in 33 days for EE rpt and 3 IRCs. //

SOMALIA: Mogadishu, 6096, card in 9 weeks for 1 IRC and EE rpt. (Barto)

SOUTH AFRICA: Radio RSA, 15285, recent special freq. for Australian Sec. (Padula)

SPANISH SAHARA: El Aiuun, 7230, original letter from Alvarez had little detail, so sent to him a prepared p/card which he returned promptly in 14 days air (Hall)

SRI LANKA: Sri Lanka B.C., 15120, drummer card in 215 days with freq. & date via second class air for 1 IRC and English report. (Watman)

SWEDEN: Radio Sweden, Karlsborg, 15240, card with site indicated in 7 days (Dexter) card of Northern Lights in 10 days; no IRCs. (Schwartz)

SWITZERLAND: SBC, 6120, picture of Alpine Train Bridge; V/S: J. A. Chisholm (Richards)
ICRC, 7210, Geneva, card in 3 weeks airmail for 1 IRC. (Barto)

TAIWAN: AFNT, 5990, large blue and white card with drawings of musical instruments and of the AFNT record library on background of a circuit diagram. V/S: D. H. Moate, C.E. 20 weeks air for no return postage. Rpted to San Francisco FPO; reply from Taiwan. (Poster)

TIMOR: Brown, green, black card in 38 days airmail with full details for mint stamps. (Hall) 3668, yellow/green card w/complete details in 25 days (Henderson) 3 weeks air for 1 IRC. (Barto) 5 weeks after 11th report in 6 years. (Padula)

TOGO: Lomé, 5047, map card with full data in 2 months for French report and 3 IRCs. (Howard) 7 weeks for French report and 3 IRCs. (Conner) 3 months (Field)

TUNISIA: RTVT, 11970, full data card in 5 weeks. (Barto) 6195, p/p/card of Bar El Khadra with full data in 14 days air for 1 IRC. Reported in English. (Mayer)

TURKEY: Voice of Meteorology, 6900, pleasant confirmation letter with all details, and schedule from V/S: Prof. Umrán E. Colasan. 19 days air for English report w/3 IRCs. (Poster) 4 weeks air for 3 IRCs. (Berg) 4 weeks for 1 IRC. (Barto)

Voice of Turkey, 15195, Turkish dancers card with all data in 6 months for 2 IRCs. (Orcutt) 15195, Turkish dancers card in 4 weeks for 2 IRCs. (Lohe) 7 months with schedule. (Rosenberg)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Government of Abu Dhabi

Ministry of Information & Tourism



حكومة أبوظبي

وزارة الاعلام والسياحة

UNITED ARAB EMIRATES: Abu Dhabi, 9620, letter, confirmation statement, by air in 5 weeks for 4 IRCs., but returned, asking we not sent them. V/S: Mr. Abdulla Nowais,

LA VOZ DE EL TIGRE C.A.

APARTADO
POSTAL
NUM. 430

Y V Q M 980 Kc.
Y V Q L 3255 Kc.
Y V Q M F M - 96 mc.

EL TIGRE - EDO. ANZOATEGUI VENEZUELA
Tel. 28-00 - 28-01

EL TIGRE, 2 DE FEBRERO 1973.

Sr.

M. FIELD.

216 WESTERN. BENTON HARBOR, MICH. 49022 USA.

ESTADOS UNIDOS DE NORTE AMERICA.-

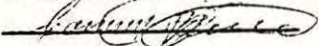
ESTIMADO SEÑOR:

EN LA OPORTUNIDAD QUE TENEMOS PARA DIRIGIRNOS A UD, LE EXPRESAMOS LAS MAS SINCERAS GRACIAS POR SU ATENCIÓN PARA CON NOSOTROS, YA QUE SUS REPORTES NOS LLENA DE SATISFACCIÓN AL SABER QUE A UN PUEBLO TAN DISTANTE COMO LO ESTA WESTERN LLEGUE NUESTRA AUDICIÓN. ESPERAMOS SIGA UD. EN SINTONIA YA QUE ES PARA NOSOTROS UN GRAN PLACER SABERLO.

SIN OTRO PARTICULAR NOS DESPEDIMOS DE UD. CON UN CORDIAL SALUDO EXPRESANDOLE NUEVAMENTE LAS GRACIAS.

ATENTAMENTE.

Por LA VOZ DE EL TIGRE, C.A.


CARMEN AQUINO.

SECRETARIA.

who says that "we shall be delighted to take care of the reply". (Young) 2 months for p/card and US stamps (Reeves) 7 weeks; IRCs sent but returned (Sparks) U.S.A. O.A.S., Bethany, 11740, friendly fully-detailed letter from V/S: Herbert Morales, Chief, Radio and TV Div, OAS. 2 weeks air for no IRCs. (Foster) URUGUAY: Radio El Espectador, 11835, plain card with full data in 61 days air for mint stamps and EE report; also received pennant. (Mayer)

VATICAN CITY: Vatican Radio, 17900, card in 16 days (Paschke) 51 days (King)
 VENEZUELA: Radio Angostura, 6120, no data letter apologizing for delay for rpt in SS and mint stamps, plus beautiful pennant. (Fisher) V/S: Sinar Guerra Madrid. (Ed.) Radio Barquisimeto, 4990, card in 43 days air for EE rpt (Mayer) 1 month for Spanish report (Yamron) 1 month (Draut) 3 weeks (Siciliano) 6 weeks (Carlsen) 26 days for 2 IRCs (Straus) 9 weeks (Barto)
 Radio Canaima, 6159, letter in 1 month from Hemelys Moya, Secretaria; air for SASE, not used. (Field) 30 days for Spanish report by p/p/card with all data on reverse. ADDR: Edificio Park, Ciudad Guyana. (Sizer)
 Radio Lara, 4800, network card for report in Spanish; 1 month (Fisher) 1/2 month for no return postage. (Megyesy)
 Radio Mundial, 5050, letter in 2 months (Barto)
 Radio Rumbos, 9660, photo card of bridge; reverse with data on station. (Eichenhorn) 4970, color p/c of Caracas with full data (Ball) 2 months (Dushane)
 Radio Turismo, 6180, letter in 14 days after f/up fm Ramon Azuaje, Dir. (Dexter)
 Radio Universo, 4880, card in 9 weeks for report in SS (Barto)
 Radio Zulia, letter in 1 1/4 months for an IRC and SS rpt. (Megyesy)
 VIETNAM (DEM REP): VOV, Hanoi, 15017, paper thin QSL w/all data plus newspaper. (Hensley) 185 days for 3 IRCs (Nikolich) 12025, QSL + letter (Barto) 15018 (Insinger) 10040 in 5 months (Lym)
 VIETNAM (REP): VTVN, 7245, personal letter in Vietnamese from VS/: Pham-Hau plus VTVN card, and sked. Registered reply in 7 wks for rpt in VV. (Zabransky)

WEST BERLIN: RIAS, Berlin, 6005, card in 3 weeks air for IRC, returned (Young)
 WINDWARD IS: Radio Grenada, 11975, letter of veri from Allan Palmer in 3 1/2 months after f/up. (N. Kolb) 46 days (Paschke) 5015, 18 days (Fisher)

YEMEN: Radio Sanaa, 5804.5, returned by prepared card in 25 days air for 2 IRCs and SAE (used). (Norko)

ZAIRE: Radio Bukavu, 4839, French veri letter from V/S: Nawezi-Naweja-Kaumb, Le Chef de Division du Service Regional de l'Orientation Nationale, 1 month air after f/up, total time 14 weeks. Both reports in French with no return postage (Foster)
 ZANZIBAR: RTZ, 3339, prepared card from Dar. CE filled in Zanzibar power and antenna type; 5 weeks airmail. Am counting it until Omar comes through, if ever. (Dexter)

Special thanks to this month's faithful reporters:

Steve d'ADOLF (MA), David BALL (ONT), Sam BARTO (CT), Ernest BEHR (ONT), Jerry BERG (MA), G. A. CALKIN (ONT), Bob CARLSEN (OH), George CASTELLO (CA), Charles CORNER (LA), Gerry DEXTER (WI), Eric DRAUT (IL), M. FIELD (MI), Bill FREELAND (WI), John FISHER (ONT), S. EICHENHORN (MI), David FOSTER (AUST.), F. E. HALL (MA), Dan HENDERSON (MD), B. HENSLEY (AR), Ron HOWARD (MD), E. INSINGER (NJ), S. D. ISAAC (SC), David JOHNSON (JAMAICA), Irving KAUFMAN (NY), N. KOLB (FL), D. KING (PA), E. G. LOHE (VA), B. LYM (CA), Chris LOBBELL (MA), Al Mayer (IL), D. MEGYESY (MN), N. MICHALENKA (RI), M. NIKOLICH (IL), Bob NORKO (CT), F. ORCUTT (NY), R. PERRY (IL), R. G. PASCHKE (WI), B. PADULA (AUST.), W. PLUM (NJ), S. REEVES (MD), J. ROBERTS (MAN.), M. RICHARDS (NY), Al SIZER (CT), Wm. SPARKS (CA), E. STRAUS (NJ), R. SCHWARTZ (DE), P. SICILIANO (OH), M. WATMAN (NH), C. WOOTTEN (MOROCCO), J. WORD (GA), L. YAMRON (PA), J. YOUNG (CA), Jim ZABRANSKY (IA).
 And so until next month, Best 73s, GREGG.

Clandestine

Bulletin



Clandestine

Bulletin

REPORT ON CLANDESTINE, REVOLUTIONARY, PIRATE & ESPIONAGE RADIO & TV ACTIVITY

Larry Magne, P.O. Box 2133, Middle-City Station, Philadelphia PA 19103, Tel. 215-KI5-7699
Deadline: April 10

This month, "Clandestine Bulletin" features the anti-communist "Radio 'Free Russia'", along with two new stations: the African "Radio Liberation" and the Middle-Eastern "Voice of Peace". Too, we have for you the latest in the series of changing Vietnamese "Liberation Radio" schedules, which should be of particular interest since it is now verifying regularly (in English and French) nearly all reports from North America.

RADIO "FREE RUSSIA"

("Radiostantsiya 'Svobodnaya Rossiya'")

For the past decade or more, we have grown accustomed to witnessing detente among the various forces of the West with those of the Communist world, while simultaneously hearing less and less about movements whose express aim is to "roll back Communism". So it sometimes comes as a surprise to discover that there exists today an organization actively working to restore a non-Communist government and religion in the oldest of the Communist states, the Soviet Union.

No, this isn't the CIA -- or, for that matter, an operation of any government. Rather, it is the privately-run "Popular Labor Union" (Narodno-Trudovoy Soyuz -- "NTS" -- in Russian) that dates back to 1930, when it was founded in Belgrade by Russian refugees. Although its rightist political philosophy led it to collaborate to some extent with the Nazis (the dynamics of this can be understood to some degree by viewing the current movie, "The Sorrow and the Pity"), it wasn't until December of 1950 that NTS went on the air from what today is the Federal Republic of Germany with its own radio station, Radio "Free Russia", which then operated from a mobile van using a 38-watt transmitter connected to a wire antenna strung from trees. Still, the main aim of NTS remained as it had been: not propaganda, but sabotage and other "dirty tricks" within the Soviet Union and to Soviet property and representatives outside the USSR.

It has been suggested that the NTS is more or less an arm of the CIA, especially considering that the CIA-backed "Radio Libertad" at one time relayed Radio Free Russia, as did stations in Taiwan and South Korea that were partly funded by the CIA. However, it appears that while the CIA and the NTS have cooperated with each other in the past, the NTS has remained independent of CIA control, especially in recent years.

Of course, Radio "Free Russia" no longer uses a 38-watt transmitter in a van. Its two current transmitters are of several kilowatts each feeding parabolic antennas with a 45° beam and, like the studios, are at a fixed site in Bavaria. They consider these facilities inadequate, however, and are trying to raise the necessary funds in order to purchase higher-powered transmitters. Meanwhile, RFR continues to be relayed twice daily by the Korean Broadcasting System ("KBS") in Seoul.

The strong anti-Communist orientation of Radio Free Russia hardly endears it to those in Bonn and Washington seeking detente with the Soviet Union. Indeed, even the presence on West German soil of the much milder Radio Free Europe and Radio Liberty facilities have caused no small amount of friction between West Germany and those nations within the Soviet sphere of influence. Nevertheless, despite repeated rumors over the years that these three stations would shortly be expelled from West Germany, they are still enjoying uninterrupted operation. The only sign of interference with NTS's operations is that the West German intelligence organization has infiltrated agents within NTS, although reliable sources within NTS claim they know who these agents are.

How effective is Radio "Free Russia"? We really don't know, but we might get some idea by comparing NTS propaganda with that of the U.S.-run Radio Liberty.

Soviet dissident intellectuals and members of struggling nationalist movements within the USSR often praise Radio Liberty as a source of information. Even though it was a CIA operation until

recently, it is considered informative and accurate, particularly when compared to the State-controlled radio & TV apparatus. This has been confirmed by Soviet emigres now settled in Israel.

By contrast, the reputation of NTS is apparently so tainted by its rightist philosophy and background of Nazi collaboration that at least one prominent Soviet dissident, Pyotr A. Yakir, informed to the KGB on 25 or more fellow dissidents when he found out the NTS publication, Posev, publicized a Newsweek interview with dissident Soviet nuclear physicist Andrei D. Sakharov. The 25 -- mostly scholars and members of the "Democratic Movement" -- were picked up by the KGB and, as a result, the dissident movement suffered a significant setback.

Thus, the NTS unwittingly wound up aiding the KGB in its campaign to wipe out dissent!

Like most stations broadcasting to the Soviet Union, Radio "Free Russia" has to contend with deliberate jamming by the Soviet authorities. RFR's technique of coping with this has been to transmit one 20-minute program in Russian per day, then to repeat it over and



over for five hours so listeners have at least a reasonable chance of hearing, sometime, the gist of the program. RFR also contends that it uses the "guerilla" technique of shifting frequency slightly in mid-transmission in order to shake off jammers. In practice, however, there appears to be little of this done any more. Still, it is probably heard over the jammers in certain rural parts of European USSR, as it is regularly monitored in various parts of Western Europe audibly stronger than the jammers. Whether similar comments apply to the Korean relay is not known.

Can Radio "Free Russia" be heard in North America? Do they verify? The answer in both cases is "yes".

They sometimes can be heard on 11400v KHz around 1900-2000 s/off either over the jammers or, in a few rare instances, just at 2000 when the jammers may go off the air a few seconds before RFR does.

The station verifies by QSL card (see below) from Postbus 902, Rotterdam, Holland, especially when the report is accompanied with return postage or a token donation for postage. As of a few months ago, M. Balmaschow was handling this task and was also welcoming taped reports, although verification was then taking several months.

Long-time DXers may recall that RFR once relayed for several years the religious program, "Radio Omega". This arrangement ceased some time back, but several of us thought it had been revived last year when Baltic-language religious programs were discovered at 1900-2000 daily and 1000-1245 Sundays. Further checking with RFR and the Radio Omega authorities shows, however, that the programs now aired are simply RFR religious programs unconnected in any way with Radio Omega, which purportedly now uses the facilities of Radio Monte-Carlo.


HTC
 СВОБОДНАЯ РОССИЯ
 FREE RUSSIA
NTS


Mr. Lawrence E. Magne
 P.O. Box 2133
 Mid-City Station
 To Rodio Philadelphia Pa.
 19103 /USA

This confirms our QSL

Date 31 Oct. 1971

11490 KHz MC

Time 1900-2000 GMT ~~1971~~

Vy 73 es rcd

RFR signs on in Russian with excerpts from Tchaikovsky's "Fifth Symphony", along with the ID, "Govorit N.T.S., da zdravstvuyet svoboda. Vnimanie, vnimanie, vy slyshayete Radiostantsiyu 'Svobodnaya Rossiya'. Govorit N.T.S., Narodno-Trudovoy Soyuz, Rossiiskiv Solidarietov."

Radio "Free Russia" is a truly clandestine operation and, as such, makes an exciting catch, especially as it verifies. If you care to give it a go, this is its schedule:

| | | |
|-------------|--|-------------------|
| 1000a-1030a | Sunday in Russian | 6350v, 11400v kHz |
| 1030a-1100a | Sunday in Ukrainian | 6350v, 11400v kHz |
| 1100a-1140a | Sunday in Russian | 6350v, 11400v kHz |
| 1140a-1245a | Sunday in Estonian | 6350v, 11400v kHz |
| 1300-1800 | Daily in Russian, 20-minute program repeated | 6350v, 11400v kHz |
| 1415-1430 | Daily in Russian via Korea | 9640* kHz |
| 1800-1830 | Daily in Baltic languages | 6350v, 11400v kHz |
| 1830-1900 | Daily in Russian | 6350v, 11400v kHz |
| 1900-2000 | Daily in Estonian and Baltic languages | 6350v, 11400v kHz |
| 2145-2200 | Daily in Russian via Korea | 9640* kHz |

*Summer frequency may be 15335 kHz

Those interested in NTG may obtain further information via their publications, Grani and Posev. Also, a brochure has at times been available in English for radio buffs called "Radio 'Free Russia' in the Field", although it is doubtful whether it is still published. The NTS maintains a Swiss bank account for donations: A/C 461 9/1, Rubr. Free Russia, Swiss Bank Corporation, CH-4002, Basel, Switzerland.

Thanks to those who have sleuthed, translated and monitored so that this writeup might be made possible: Ernie Behr, BBC Monitoring Service, Bernard Cheral, Don Jensen, Bill Matthews (via HTL-71), The New York Times, Joe Palmo, Richard Wood, and cartoonist Diane Lévesque.

RADIO LIBERATION

("Radio Libertacao")

Since mid-January, 1973, a station identifying in Portuguese as "Radio Libertacao", i.e. Radio Liberation, had been noted from 2000-2300 on 15265 kHz with an announced parallel frequency in the 49 meter band. On February 15, however, 15265 kHz was replaced by 6240 kHz in the 48 meter band, where it is easily heard today in North America, Europe, and elsewhere.

Radio Liberation (not to be confused with the Vietnamese "Liberation Radio") appears to be the official voice of the politically-moderate "African Party for the Independence of Guinea and Cape Verde" (PAIGC), headquartered in Conakry, Republic of Guinea, and headed by the widely-respected Amílcar Cabral until his assassination (allegedly by Portuguese agents) in Conakry on January 20 of this year.

The programs, which are in Portuguese and vernaculars, support the liberation movements in both Guinea-Bissau (i.e., Portuguese Guinea) and the Cape Verde Islands, while attacking the Portuguese colonial administrations. Although most of the programming consists of talk, there is, for a clandestine station, no small amount of music, mainly of the West African and Portuguese genres. The station signs on with several notes from a native xylophone-type instrument and signs off with an indigenous anthem. Although the ID in vernaculars has not yet been determined, the IDs in Portuguese include, "Transcribe É Radio Libertacao" and "Isto É Radio Libertacao", with "Radio Combat" having once been reported.

So far, the location of this operation hasn't been determined. However, the Republic of Guinea seems the most likely possibility. Too, there is a chance the site is in Senegal.

No verifications exist so far, but first tries might contact PAIGC, preferably in Portuguese, in Conakry, Dakar, Addis-Ababa (via the Organization for African Unity), or even (when a PAIGC or OAU observer is there) the United Nations. I suspect there is at least a sporting chance that a creative DXer will receive some sort of reply.

The schedule, albeit incomplete, appears to be:

0730av-0915+ 6120, 6240

Local Midday Frequencies unknown, may be 31 & 30 meters

2000av-2303av 6120, 6240

Further information on this station, particularly its schedule and location, will be welcomed. It might be added that this appears to be the only Guinean clandestine currently in operation, as the anti-Touré station, "Radio of the National Liberation Front of the Republic of Guinea" on 4970 kHz (unlisted in any FBIS "lists"), formerly heard from 0620-0725 and 2100-2205, can no longer be traced, at least here in Philadelphia.

A special thanks to those who have helped so far in unraveling this fresh mystery: Sam Barto, Ernie Behr, Gregg Calkin, Carol Fell, and The New York Times.

VOICE OF PEACE

("Saut al-Salaam")

In a few weeks' time, radio listeners in the Middle East will hear a powerful and unusual signal on their transistor radios as the area's first pirate radio launches its opening salvo in the battle of the airwaves.

Its transmitters will be aboard a small ship anchored outside territorial waters, roughly equidistant from Israel and Egypt. It will broadcast around-the-clock in four different languages -- Arabic, Hebrew, English and French -- and politics, not pop music, will be its staple.

The "buccaneer" skipper behind the microphone will be the indomitable Abie Nathan, Israel's famous "peace pilot" who, before the 1967 Arab-Israeli war, used to shuttle between Israel and Egypt piloting his own light aircraft in a daring and highly eccentric attempt to solve the Middle-East crisis singlehandedly.

For many, Nathan's new exploit in his one-man crusade for peace will merely confirm that he is off his rocker. For others who rate him more highly, he is a meddling amateur playing with fire. But when you meet Abie Nathan, it is plain he is neither an innocent nor a lunatic.

"All I want to do is provide a forum," he said in an interview. "There is no dialogue in the Middle-East and no platform. The 'Voice of Peace' will be a radio station where Arab and Jew can freely air their views and project them to an audience which normally hears little but predigested propaganda."

He is a fanatic for peace -- and his sense of mission is obsessive, almost religious. The good ship "Peace" -- or, if you prefer, "Salaam" (in Arabic) or "Shalom" (in Hebrew) -- is his entire life.

He sold his restaurant and all his property in Israel and sank his last penny in the ship, which he bought in Holland. That was three years ago; since then he has been slowly raising money in the United States and Canada -- the ship was lying in New York and New Jersey harbors -- to finance his floating pulpit.

It has not been easy. His ship was moved from wharf to wharf by obstreperous officials; he lived aboard for a long time on the starvation line; militants such as the Jewish Defense League harassed him, cutting his water and electricity supplies and campaigning against him.

But recently the money has been pouring in, partly as a result of the Libyan airplane incident. The ship has been fitted to accommodate 20 people and is bristling with the latest and best in radio equipment. The 50 kw medium-wave transmitter with its 160-foot radio mast gives the "Voice of Peace" formidable power. "If they try and jam us", he says with a grin, "we'll jam them."

A spoiling operation, however, is not the point of the exercise. Nathan has two main objectives.

First, he wants to establish the "Voice of Peace" as a credible and professional radio station. Experienced journalists (equipped with on-board wire service teleprinters) and technicians will be used and the range of programs will be broad with a strong emphasis on entertainment ranging from pop music to Arab and Israeli folk music. There will be a 12-hour broadcast day with 10 minutes per day of commercials to help defray the crew's \$5,000 in monthly salaries.

Secondly, when credibility and popularity are taking hold, he will develop his political forum by inviting aboard Arabs, Israelis and others to discuss Middle-East events.

But there are problems. Will Arabs be prepared to stick their necks out and talk freely over the air? Most of them are subject to greater pressures back home than are the Israelis. And to most Arabs, Nathan is still an Israeli, though he now says he is "a citizen of the world."

Then, will he be allowed to get away with it? The Israeli and Arab governments are likely to feel unease, if not downright hostility. Even the Cyprus government, which has a strong vested interest in not offending either side, is believed to be concerned at the prospect of Nathan's using the island as his bunkering retriavelling base. Commercial pressures are bound to build up -- as they have done against pirate radio ships elsewhere -- especially if he begins to attract a large audience (Nathan feels the potential audience is 30 million Arabs and Israelis).

The "Voice of Peace", still mute but its generators already humming, set sail from New York March 8 and should arrive off the Sinai by April 10. How long it will be allowed to be heard or what effect it will have on the Middle East are unknown quantities.

But there is no doubt in Nathan's mind. "The radio will not only illuminate the path to peace," he says, "it will also be the voice of reason."

The "Voice of Peace" will sign on and sign off with the Beatles' "Give Peace a Chance". It can be reached at: Peace Ship Fund, P.O. Box 1111, F.D.R. Station, New York NY 10022, USA.

Credits to John de St. Jorre of The London Observer, The New York Times, Mike Wiseberg, and fellow editor Al Sizer. Many thanks!

LIBERATION RADIO, PHASE III: The Vietcong station's current schedule is, to Europe, S. Vietnam, & North America, 1900-2000 Viet, 2000-2030 French & 2030-2047 English on 12115v, 14990v, with 10010v listed but not traced. The Viet HS is now 2200-2400, 0700-0900 (dict news) & 0900-1700 on 7416, 10225v. Additionally, what may be a Mountain-language service of Liberation Radio is traced from 0900a-1500 on 7378v, 15017v, possibly continuing on 15017v. Add to March CB-2 French 2300-2330, Laotian 1300-1330, Khmer 1330-1400 and English 1430-1500, all on 7470v, 10010v. Thanks to Bob Bundy and Ernie Behr for this latest update.



HEADQUARTERS CALLING

NASWA, P.O.Box 8452, S.Charleston, W.Va. 25303 USA

MID-MONTH FLASHSHEET The mid-month Flashsheet will continue to be available to NASWA members on a SASE basis. However, we will accept only one envelope at a time. The purpose of this is to cut down on the amount of HQ work required to get it out. The FLASHSHEET will continue to be included in the bulletin. In addition, the mid-month FLASHSHEET is available to NASWA members only on a subscription basis. Cost is US\$2 per year, for first class delivery in NA. For AIRMAIL in NA the cost will be US\$2.36 per year....Overseas members may obtain the mid-month FLASHSHEET via AIRMAIL for US\$3 per year.

For those who wish to set things up so that their due date on the FS subscription coincides with their due date on membership dues, the following table is provided.

If your membership has this many months before expiring,

PAY THIS AMOUNT FOR

| | First Class in NA | AIRMAIL in NA | OVERSEAS AIRMAIL |
|----|-------------------|---------------|------------------|
| 1 | 17¢ | 20¢ | US 25¢ or 2 IRC |
| 2 | 34¢ | 40¢ | 50¢ 4 |
| 3 | 51¢ | 60¢ | 75¢ 5 |
| 4 | 68¢ | 80¢ | US\$1.00 7 |
| 5 | 85¢ | \$1.00 | \$1.25 9 |
| 6 | \$1.00 | 1.18 | 1.50 10 |
| 7 | 1.17 | 1.38 | 1.75 12 |
| 8 | 1.34 | 1.58 | 2.00 14 |
| 9 | 1.51 | 1.78 | 2.25 15 |
| 10 | 1.68 | 1.98 | 2.50 17 |
| 11 | 1.85 | 2.18 | 2.75 19 |
| 12 | 2.00 | 2.36 | 3.00 20 |

If you would prefer to just send in a full years fee for the MID-MONTH FLASHSHEET, that would be OK. Those who want the two to come due at the same time can use the above table.

We trust the Flashsheet is proving useful to you. At times the MID-MONTH FS envelope will also contain other items.

WE ASK THAT YOU SUBSCRIBE TO THE FS ONLY IF IT IS ACTUALLY USED BY YOU. Headquarters (that's Dan Ferguson!) is willing to get the thing printed and mailed, but please don't cause the extra work unless you are going to use it. Thanks.

The question will probably be asked, "Why is it going to cost \$2, when we were talking about \$1 extra for two issues per month. The reason is simply that the two issues per month would not have resulted in an increase in total pages, only in a distribution of the present bulletin into two parts, with the LR appearing each issue. The extra \$1 would have covered only the cost of the additional postage required....With this set-up on the mid-month FLASHSHEET, those who will be using it will be the ones who will pay for the cost of having it printed and mailed.

Dan Ferguson,
NASWA Executive Editor

HELPING HAND Have extra copy of WRTM 73 for sale for best bid plus postage. Write Richard D'Angelo, 2215 East 63rd St., Brooklyn, NY 11234.

For sale Heathkit HD 20 crystal calibrator & GD-125 Q-Multiplier, \$10 each plus postage, or both for \$19 ppd. 1972 WRTM \$3.21 postpaid. Would also like to talk to other E.F. (area) DXers. Phone 765-0735. Larry Nebron, 27 Garden Grove Drive, Daly City, CA 94015.

For Sale Hammarlund HQ180, good shape (got me 174 countries), \$255.00. And Drake SW4A with speaker and a few extra crystals, \$280.00. Want to trade up for SPR4 Drake. Write John Hoogerheide, 3 Marquette Dr., Marquette, Mich. 49855.

FRENEX IN LIBRARIES? Now that NASWA publishes a 'magazine', it could be placed in many libraries, and contribute greatly to spreading the hobby. Most libraries operate on a fiscal-year basis, so now is the time to start persuading your librarian to take FRENEX. Why not give it a try? Take some sample copies along, and be prepared for a long wait. Or, if you can manage it, a gift subscription may do the trick; but keep in mind that many libraries don't bother to catalog and properly display periodicals they haven't ordered themselves. (Glenn Hauser)

DOMINICAN FEN PALS Jack Rosenberg notes that his name & address were recently read over Radio Hil, and that people have written to him to be a pen pal. Jack does not understand Spanish. Perhaps someone who does would like to write to Pedro Julio Santana Modero, Calle Quinta No. 38, Villa Faro, Santo Domingo, DR. Or to Milagro Cristina Pérez Ricart, Calle 25 # 62 Ens. Espallat, Santo Domingo, DR....By the way, Jack, you should have the new member packet by now.

HELPING HAND - For Sale Gilfer A20 preselector, used less than 10 hours, original packing and owners leaflet. New was \$49.95, will ship postpaid for \$30. Will accept old electronics magazines (Popular Electronics before 1972 preferred) in part payment. State what you have. Write John Lackmann, 509 S. Main, Lexington, VA 24450.

FOR SALE DRAKE SPR4, 1 year old, 15 SW crystals, MS-4 matching speaker, Telex CS-7 earphones, AL-4 loop antenna. All in excellent shape. \$325. Will ship postpaid. Write Richard Clauson, Kings Manor Estates #305, Largo, Fla. 33540.

UPCOMING FROM NASWA ...A small booklet with the complete series on the DARKNESS PATTERN....Reprints of articles by Al Niblack on receivers....Reprints of the excellent articles Richard Wood wrote on IDENTIFICATION OF LANGUAGES....The COUNTRY LIST in booklet form, with several additional pages of data, explanations, etc....A pretty good sized booklet on serious DXing....New band surveys.... and, as always, FRENEX, the SWEC journal:

WE ARE currently out of membership certificates, and new member packets are being mailed without them. It is likely that we will be using membership cards in the future. Seals will continue to be available to those who have the certificates formerly used.

THE AWARDS PROGRAM....Warren Nordgren has asked to be relieved of the Awards Program. Therefore, please hold off on your applications for awards. We hope to announce a new Awards Chairman next month...Incidentally, the certificates for the awards are being redesigned. We plan to have a separate design for each of the awards. Unless the plans change, each continent award will have an outline of the continent in the background, plus special designs for the other awards.

SWEC DX BOOK...Since there is currently nothing covering SWEC DXing available, we are planning on publishing such a book ourselves. Hopefully it will be finished by fall. It will be something for the serious DXer, and for those who want to "go on to the top", as the upcoming series of articles by Don Jensen puts it. We welcome articles for possible inclusion in the booklet. Articles on equipment, or on the modifications that might improve equipment, on techniques, etc., are welcome. We can use illustrations, and pictures that have not appeared elsewhere....If you have something to say about serious DXing, techniques, etc., we invite you to submit your article for consideration by the committee of referees. Write HDQ. If the serious DXers in the club will support this project we will add something significant to the collection of DX literature. (DF)

MAIL CALL

LETTERS FROM MEMBERS WITH PROBLEMS

Deadline: 20th of Month

Edward C. Shaw
621 Burleigh Avenue
Norfolk, Virginia 23505

Letters have been coming at an all time high rate through the past month, and I feel that some words of explanation should be given that all letters cannot be used. Some subject matter is often unique to only the letter writer, and therefore would not be of general interest to the membership. Whenever a stamped return envelope is provided, an answer will be mailed the writer after a short period of time to adequately research an answer. Often, I will consult with others whom I consider more expert in certain fields than I to arrive at a factual reply. I try to refrain from personal opinion where published facts can be found. In this manner, we hope that MAIL CALL is providing a useful service.

Dear Ed: What exactly is the purpose of a follow-up report? How is one prepared?

Answer: A follow-up report is the second (or more) report written to a certain station when no acknowledgment, whether QSL or denial, has been received after a decent waiting period. Many stations have neither personnel nor finances to answer reports - at least on a regular basis. On the other hand, many reception reports have laid unanswered in a forgotten file basket. In such a case, after a period of, say three or four months, it may prove fruitful to write another report. This time, I would make it on a 15¢ air letter sheet, adding an opening paragraph which suggests that your first report was probably lost or overlooked. If the report was indeed mislaid in a forgotten file basket, chances are an honest station official will find it and answer the air letter sheet report. If the initial report was lost before it arrived at the station, then your second report has a chance of being answered. Many DXers have found it handy to make carbon copies of their reception reports, and if such an occasion should arise, a carbon copy of the first report could be sent. As long as I was writing a follow-up report, I would send a completely fresh report with another couple IRC's, depending on the station reported. Big international broadcasters usually do not require return postage. Smaller, regional broadcasters, especially in poorer countries would certainly appreciate the gesture. Search through past FRENDX's or order NASWA's Verification Signer's list to ascertain names of personages at these stations. It is always better to mail a letter to a name rather than just to the station.

Dear Ed: I am at my wit's end trying to combat buzzes and crackle in my receiver everytime somebody turns on a razor or mixer in the neighborhood. Is there anything to do for it? How does this noise get into my receiver?

Answer: Interference from domestic sources in and around city living can sometimes be a maddening and exasperating situation. All of us have experienced your plight. More than once wishful thoughts of offending mixers exploding into scintillation atoms have filled my mind with sweet revenge. Ditto for amateur radio operators on 41 and 75 meters. Some small practical effort can help alleviate the problem - but not prevent it entirely. Offending noise makers are auto ignition, fluorescent lighting, light switches, thermostats, street lights, and motors. In fact, there will be RF noise pollution generated anywhere there is an electrical spark. Some of this problem can be helped immediately by a proper ground on your equipment. Also, there are commercial filters available which can be plugged into the wall either at your receiver location, or preferably at the source of the offending noise - and the appliance plugged into the filter. The problem will never be solved until the source noise is attacked - and this is a job for the manufacturers of appliances. To help you further understand the problem in depth, I am sending you a reprint of NASWA member and Ace DXer Glenn Hauser's definitive treatise on RF pollution. It explains a multitude of mysterious things. Any member can also request this reprint in exchange for a self-addressed and stamped envelope to MAIL CALL at the above address.

Dear Ed: Occasionally, I hear strange interval signals played over and over for long periods of time. They are found on the low end of the 90 meter band and also around 8,000 kHz. The most frequently heard signal is four ascending notes followed by a girl or man repeating German or Spanish numbers.

Answer: You've discovered one or two clandestine broadcasters, and these have been reported to FRENEX' Log Report in the past. An excellent article by our QSL Report Editor, Gregg Calkin appeared in a past issue of FRENEX which explained what these stations were and how they likely operated. Basically, they could be spy stations sending messages to foreign points. The repeated numbers you hear are usually in groups of five, and when correlated with some base information known to both, the sender and intended recipient can pass messages with some degree of efficiency. Keep an eye on Larry Magne's Clandestine Bulletin elsewhere in FRENEX.

Dear Ed: I have an SW-4A receiver, and although I have few complaints about the receiver, I am not too pleased with the way stations run together. Can I have the circuit altered in some way to improve selectivity?

Answer: Yes, the set could be altered - at great expense. However, it would be much more practical to buy an external Q-multiplier- available from Heathkit and others - to use with your SW-4A. Many owners have found this very effective. I have to agree the SW-4A selectivity is not all that it could be.

Dear Ed: I've been told that I'll have a better QSL return if I reported in the language of the country heard. I already have NASWA's foreign language report forms, but I'm interested in sending reports to regional Soviet stations, Greenland, and to Arab countries. Do report formats in these languages exist?

Answer: First of all, let me assure everyone that NASWA is now at work rewriting reception report formats for French, Spanish, Portuguese, and Indonesian. An excellent Vietnamese is also available. As to Russian, Geanlandic, and Arabic forms, I remember that our sister club American Short Wave Listener's Club (ASWLC) once offered a Russian form and a Danish form (which would be useful for Greenland). Also, an Arabic form exists from a German DXer. In addition to the above, several somewhat specialized reception report forms in Persian and Urdu have been constructed by NASWA's Danny Jamison. Persons interested in any of these are requested to send me a self-addressed and stamped envelope for further information and addresses. The list would be too long to present here.

Dear Ed: I have found a new station on 11,935 kHz calling itself, "Radio Safari." It is only on the air a short time with music and DX items, just before Radio Portugal signs on. I think this station is in South Africa. Is this the same thing as Radio Swaziland?

Answer: No - Swazi Radio is found on 6,155 kHz, but very difficult. What you are hearing is only a program presented over the facilities of Radio Portugal. The program is recorded on tape in South Africa by Richard Ginbey, and old friend of mine. Years ago, this program was a surprise to me, too. Richard used to have a very attractive QSL card for reporters of the program.

NOTE: Requests for the NASWA Consumers Report on the SX-190 have been heavy and a second printing may be necessary. Get yours now! See what this receiver is all about. Count the number of FRENEX reporters with the SX-190. Six pages of candid observations and tips at no charge; just a self-addressed and double stamped envelope to MAIL CALL address.

HARMONIC HUNTING

with
HAUSER

Glenn Hauser

Box 62

Von Ormy TX 78073

They're not for everybody
(but they could be for you).

"I am not up on harmonics. Is a harmonic a multiple of the original signal beyond two times? Can it also be a fraction of the original, and what is a 'spur'?"

Properly used, the term **harmonic** should refer **ONLY** to integral multiples of a fundamental. Cuba has proved there's no precise limit on how 'high' harmonics can go. Very rarely, a stage in a transmitter before doubling or tripling takes place will radiate a 'sub-harmonic'. Two come to mind in recent years: Mongolia on 8892 kHz, $\frac{1}{2} \times 17784$, and RHC on 4762 $\frac{1}{2}$, $\frac{1}{2} \times 9525$. A **spur** is any other radiation from a transmitter not on its nominal fundamental frequency. Normally, these occur in pairs equidistant from the fundamental (e.g. VOA-Tinang on 9622 and 9638), and are often distorted as if FM, or with asymmetrical sidebands. In extreme cases spurs can appear almost anywhere--sometimes blanketing an entire ISWBC band. In Jan 1967, Radio Fronteras, Somoto, Nicaragua, blossomed on 2186 kHz; what relation this had to its nominal fundamental of 1330 kHz is not known, so it's considered a spur. **Image** is another term which is misused; it should be reserved for **receiver** defects which cause a signal to appear in more than one spot on the dial. The most common kind is \pm twice the IF (say 910 kHz). In more severe cases, such as your finding VOA on 2920 and 2915, HGJB on 2875, and AFRTS on 2770, entire bands may reappear many MHz away from their proper place. A good alignment job, double conversion, preselection addition, etc., should reduce or eliminate such QRM to harmonic (and fundamental) DX.

"How long do harmonics last, typically, before they are corrected?" --Richard Wood

Every few weeks, there's a little something new

Seriously, there is no 'typical' harmonic life span. How long individual harmonics last depends on a number of variable factors:

1. Just one DX reception report, and certainly several of them, will likely kill off a (MW) harmonic. Once it becomes apparent the harmonic is getting out, a responsible engineer will try to suppress it--if for no other reason than harmonic radiation meaning less efficiency on the fundamental. As I said before, DXers should not try to QSL MW harmonics. You may get one, but spoil harmonic DXing for others!
2. The stronger the signal, the sooner it will be corrected. The stronger it is, the sooner authorities will be able to hear and identify it.
3. The more active conventional transmissions are on the harmonic frequency, the sooner it will be corrected. For example, a 1490 station in western USA could not exist long on 2980, where all transpacific flights listen for flight weather. Several years ago, KREO Indio CA, a 1400 kHz station harmonizing on 5600, received complaints from aeronautical operators as far away as 5604, and installed a trap.
4. Country of origin is significant. So far, Cuba has shown little inclination to attenuate its harmonics, perhaps considering them a bonus to normal coverage. Technologically sophisticated and densely populated areas such as western Europe and USA require severe attenuation of harmonics; most other areas, such as Latin America, are not so concerned, unless an international QRM complaint comes in. One northeast USA DXer finds a preponderance of French Canadian MW harmonics on his 2 MHz band.
5. Some MW harmonics seem to vary from day to day, though propagation conditions remain about the same. Thus, a harmonic may come and go at irregular intervals, depending on humidity at the transmitter, or how slightly it is misadjusted.
6. As for harmonics of SW stations falling above 23 MHz, there seems to be little effort to make any changes to suppress them since, increasingly now, those frequencies are little used by utility operations, and since it takes excellent propagation conditions to uncover them.

Our concentration on MW harmonics so far simply coincides with the winter peak of low-frequency conditions. We'll soon move upward to SW harmonics.



LOG REPORT

NASWA LOG REPORT
P.O. Box 8452
S. Charleston, W. Va. 25303

Deadline: 12th of the month

ALL reports must be arranged in order by frequency. Each item should have your name after it. Deadline is the 12th here. Late reports are not held over!

- 1700h GUATEMALA R Ciro's 2x850 always there if atmospheric allow; 3/13 0645 (Hauser)
1820h VENEZUELA R Aeropuerto presumed as AN, soft mx, ham het 3/11 0711 2x910 (Hauser)
2110ht COLOMBIA LV Centro 2x1055 likely source of AN mx 2/21 0726 (Hauser)
2160h HONDURAS R Tiempo NEW 2x1080 3/13 0500- dance mx, IDs and fast TCs after every record; 0555 s/off w/full ID: HRVA San Pedro Sula, F (Hauser)
2200hu ? prob. 2x1100 2/20 1218 rock, SS, EST, lethargic unlike Colombians (Hauser)
2200h NICARAGUA La Lifer seems back 1/3 tho weak after long tremorous absence, 0055 rock SS, ment "nicaragiense," "impactos musicales de la noche" 2x1100 (Hauser)
2270ht GUATEMALA LV Costa Sur only active on 1135, 2/18 1222 Mexican mx (Hauser)
2300hu MEXICO def. XE-- call 2/18 1220, but too much QRM; 2 x 1150 (Hauser)
2320hu ? CST TCs, SS mx 2/18 1142 "La Táchira(?) Musical" 2x1160 or 4x580 (Hauser)
2340h VENEZUELA R El Sol, oft ment its town La Fría, 0100-0158* 2/16, SIO 243; 2/19 1112 "Alegre Despertar" px 423; 2/20 1059 "la frecuencia brillante de Venezuela"; not hrd since; 2x1170; no sign of Forlamar fundamental here (Hauser)
2343hv GUATEMALA TGRL still IDs as R. Landívar 2/18 0400; 2/19 1139- 2x1171 (Hauser)
2350 CHINA Tsinan (list-ed) CC YL singer 1315, P (Young)
2360h MEXICO R Amor, XEYV Huatusco Ver NEW 2x1180 daytime where never hrd; 3/13 1330 local ad, 1335-1340 canned devotional px; 1400 slogan only ID twice, "editorial de hoy", f/out; 354; erratic; not hrd 3/15 (Hauser)
2390 GUATEMALA LV Atitlán 3/3 0217 mix Huayacocotla to its 0300*, then best ever w/musical program to 0345* (Field)
2400 BRAZIL R Educadora, Macapá AP, 2/20 0909 ID, carnival talk & mx; also 2/19 0913-0929 and ± 3/17 0937; rare, but unfortunately not a fund, hi (Hauser)
2410u BRAZIL? 3 listed; 3/17 0948 tent PP evangelism, RTTY hi side (Hauser)
2425 RHODESIA REC twice 0400 OM EE talk F; tx Hall tip (Perry)
2446 RÉUNION St-Denis ORTF daily 2/26-2/31 (amazing; -ed) w/nice guitar IS 0228, *0230 choral LM, ID as in WRTH, px summa, nx to 0235, then light vocal mx; generally IDed at 0241, mx continuing to 0255 fade (Heutte)
2500h DOMINICAN REP LV Progreso 2x1250 0020 ID, LA mx P (Wood) Best here during WWV atonality 45-50 past hours, such as 2/22 0048 ID in passing (Hauser)
2510 KOREA SOUTH KBS HS Taegu KK nx, drama 1300-1400 2/24 (Sparks) -1300 (Hauser)
2520h MEXICO KEZH Salamanca Gto 2x1260 "ZH 1260 kilohertz" 2/20 1231 233 (Hauser)
2560hu COLOMBIA/MEXICO? clues for both 2/19-20 1117-1241 R Mía, RPI R mix (Hauser)
2590ht COSTA RICA R Alajuela 2x1295 2/20 1159-1210 fade; QRM another h (Hauser)
2600h MEXICO Cf Feb LR; new León Gto stn is XEXV from 1300, 1 kw (Hauser)
2680h HONDURAS R El Mundo 2x1340 much better than 2160 stn 3/13 0602 usual extensive midnite nx; 2/19 1124 "Fabricadena Hondureña" 1128 R Cadena Maya (Hauser)
2820h COLOMBIA HJFS Ondas del Gualf, Honda NEW 2x1410 2/20 1055 CARACOL sx (Hauser)
2880h COLOMBIA R Reloj de Tulua VG 0830 ID, CARACOL fanfare nx, good sig for harmonic (Heutte) (About time somebody else hrd this, hi -ed) 2 x 1440
2898h GUATEMALA R Nac Mazatenango VG 2/20 1209 2x1449; who needs 5070? (Hauser)
2920h MEXICO XEYV R Ysela, Cd Juárez 2/18 1237 TCs, slogan ID, 2x1460 (Hauser)
2940h GUATEMALA NEW 1470 stn discovered since XEKM left; 2/28 0358 "Buenas Noches Centroamérica" pgn, 3/1 0415 sx on "Núcleo Radial Centroamericana" from 1510 stn's R Cadena Maya whose s/off it relayed 3/2 0459 folo by own 0505*. TGWH or TGBH, R Record(?), Chiquimula, unlist WRTH73, 252 (Hauser)
2940h MEXICO/USA R Fiesta wiped out harm 2/20 but KICL DX unhrd 2/24 0815 (Hauser)
3000h MEXICO R Tricolor is back on SW despite sale of 19 & 25m xmtrs; 3/13 0620 "RH, RH, R Tricolor" jingles, plugging group R Distrito Federal; 2x1500 where also hrd but under quite different condx; poor here (Hauser)
3000h MEXICO Cf Jan LR; Call for new Piedras Negras Ver 1500 list XEEN, gone (Hauser)
3075h HONDURAS R Comercial still 2/22 0057, 0210 "Dinámico" ID; unsure fund (Hauser)

- 3100h GUATEMALA/? Still a mixture, at least 2 stns prob. 2x1550; 2/19 1024-1102 IDs
hrd incl R Villarreal, R Modelo, R Gamalaplulapa(?), Cadena Azul (Hauser)
- 3120h USA KREGG Daingerfield TX 2x1560 2/18 1242-, 1313 hymn, 1330 nx, ID (Hauser)
- 3199h DOMINICAN REP LV Fuerzas Armadas 2/24 0459 ID, taps mx, s/off w/freqs, NA,
0500* 2x1600 low (Hauser) 3200a, 0300 LA mx //4825, 443, harmonic? (Zilmer)
- 3200 CHINA Fukien Front G 1000 choral EIR, CC; //3400 & 4380 not in yet (Heutte)
- 3209u INDONESIA 1046 Moslem-like mx, 1100-1110 nx II, unclear IDs 2/18 222 (Bundy)
- 3215 VENEZUELA Ondas Panamericanas F 2/17 0200 trop mx, ads, ID, no Libertad (Behr)
2/20 1104 Reloj Continente nx relay //3225 except for ads (Hauser)
- 3216a DOMINICAN REP R Idbertad HDB 2/18 0300 LA mx, 443 (Zilmer)
- 3224t INDONESIA (JAVA & LESSER SUNDAS) RRI Mataram, YL & OM II voices 1307-1314 dual
other 90a Indonesians, possibly newscast (Young)
- 3225 VENEZUELA R Occidente 2/20 1104 jabón ad, 1105 rejoin Continente (Hauser)
- 3227 LIBERIA ELWA 0615 Afr chants, 0630 vernac talk, F (Behr) 0645 G clear, lang
exhortations, not //4770 (Heutte)
- 3230t TAIWAN ECC 3/15 1258 tk, martial mx, relay-qual audio; 1300 prolonged tone,
non-Kuoyü YL ID, 223 (Hauser)
- 3232 MALAGASY REP R Tananarive 0246-0251 Afr mx, vernac annts, RTTY 3231 (Young)
- 3235 INDIA AIR Gauhati Ind mx, YL tk -1330 f/o (Behr) (B & C programs -ed)
- 3240 IRAQ R Baghdad presumed, AA mx 2/18 2047 but unsked this hour (Bundy)
- 3245 VENEZUELA R Libertador 0300-0400 LA mx, SS YL & OM (Lineback P, Zilmer 443)
- 3250 INDONESIA (KALIMANTAN) Randjarsin pres. 2/25 1100 II nx, pops -1125, no ID
but everything fits, P (Sizer)
- 3250 SOUTH AFRICA SABC 0330-0400 EE, mx, E 2/12 (Lineback)
- 3255 VENEZUELA LV del Tigre, pop dance mx, final ID, 0411* 3/6 (Sparks)
- 3260 ECUADOR LV del Rfo Carrizal 0250 LA mx, annts, NA 0305* early 2/20 (Ruchschere)
- 3260 NIGER R Niamey *0530 NA, flute IS, FF ID, Afr mx past 0534 //5020 (Young)
- 3270 CHINA RP RR 2055*, *2100 IDs, 121 2/18 (Bundy)
- 3275 VENEZUELA R Mara YML 0740 2/18 LA mx, 443 (Zilmer)
- 3277t KASHMIR R Srinagar Indian mx, chants 1506; 1517 fade. Djakarta HS //4805
does not seem to be here after 1430 (Young)
- 3286 PHILIPPINES PBS Manila, 1335 light mx //6170 (Young)
- 3290 GUYANA Action R on early 3/17 0822 Hindi songs, Demerara social notes in EE;
het low side, sked *0843 (Hauser) 0930 EE rel px G-VG on USB to avoid ute
(Odlin) 0420 American pops, DJ px G 2/13 (Herson) (a Mon, sked 0350* -ed)
- 3300 WINDWARD ISLANDS R Grenada 0125 EE, BBC nx, 2/28 443 (Cwikla)
- 3300 HONDURAS-BRITISH R Belize 0305-0320 EE, mx, F (Hafer)
- 3302 VIETNAM NORTH VOV prob VV HS 1408 2/22 //7102, 10060, 222 (Bundy) (NF? -ed)
- 3304 INDONESIA (WEST IRIAN) RRI Djajapura 1345-1400* II ID //3905 2/19 243; at 1355
played "Love Ambon" w/Djajapura IDs, believe sked *0800-1400* (Bundy) (NF? -ed)
- 3305 VENEZUELA R Carúpano 1005 Rumbos net mx, lots fanfare, yelling, G (Heutte)
- 3315 MARTINIQUE ORTF 1030 FF nx, classical mx, VG (Wood)
- 3315 ECUADOR R Pastaza, 0321 strong but various ute QRM (Dexter) (details? -ed)
- 3315 INDIA AIR Bhopal, Indian mx & annts to 1330 fade out (Behr)
- 3316 SIERRA LEONE RSL, Freetown 2304-2331* lang, Afro type mx, 242 (Miller) 0559
vibro-chime IS, mx, s/on EE, annts, mx past 0619 (Young) 0700 BBC nx relay //
ELWA 4770, audio identically poor (Heutte) 0720 EE TCs, ads, mx, P (Wood)
0615 chorus sing, 0630 vernacular talk (Behr) //1205 MW no longer easy -ed)
- 3320t ECUADOR after 0400 many ads for Santa Rosa; no ID but P. Schnabel, SPEEDX says
is R. El Mar ex-3340 (Sizer) u 0428-0458* 2/28, 3/2 pops, unk NA (Ruchschere)
- 33225 BOUGAINVILLE RB 1115-1145 Pidgin, mx F (Heutte) 1250 choral mx, 1300 EE ID, G
(Mayer)
- 3325 GUATEMALA R Maya 0320 LA mx 2/28 443 (Zilmer) (An article explaining the wide
variety of "LA mx" appeared in NRC DK News, 1/8/72; contact Mark Katz, Box 99,
Cambridge MA 02138 for reprints -ed) 3320, 2/21 2345 LA mx, ID? P (Herson)
3320, 0001 3/3 marimba mx, 242 (Miller) Don't believe WRTH or TGBA's claims;
they're on 3325! -ed)
- 3325 VENEZUELA R Monagas 0300-0345 LA mx, ads, jingles, IDs F-G (Estes, Lineback)
0112 3/3 "Aquí Radio Monagas" 322 (Miller) 0950 YVRA ID, G (Odlin)
- 3325 ECUADOR Ondas Quevedoñas 0503 2/24 begin AN "Buenos Días, Ecuador" px w/And-
ean mx, 0509 Glostora ad, ID w/freqs 635, 3325; 444 (Hauser)
- 3331 USSR QTH? 1110 lang talk, seems unRR; 1113 YL begins RR; hvy CHU 2/20 (Hauser)
- 3335t NEW GUINEA R Wewak, 1230-1245 2/22 pidgin, chorals, EE rock songs, F (Mayer)
- 3336 SENEGAL RS Ziguinchor 0750 Afr sing, Khora mx, ID, 0802* 2/12 (Sparks)

- 3336t SENEAL R Ziguinchor, native drum mx, but not //4890 at 0618 (Young)
- 3338 MOGAMBIQUE AV de Moçambique 0318-0345 PP anmts, mx; bad Zanzibar het (Young)
- 3339 ZANZIBAR RTZ *0330 after IS, chants to 0340 tune out, F (Perry)
- 3344 INDONESIA(WEST IRIAN) RRI Manokwari Indo pops 1225 2/18, 243 (Bundy)
- 3346 INDONESIA(KALIMANTAN) RRI Pontianak clear Indo ID 1230 2/18, 233 (Bundy)
- 3350t GABON Franceville seems likely tho late, 2/25 0015 FF hillife mx, no ID (Sizer)
- 3355 INDIA AIR Kurseong, Indian mx & anmts to 1330 fade out (Behr)
- 3360 PAPUA R Milne Bay 1128 guitar, drums, 1206 "R. Milne's Saturday night (Fairson?) Show", EE and Pidgin, G-VG at times (Odlin)
- 3367t INDONESIA(SUMATERA) R Angkatan Udara, Medan operates here per Goonetilleke; stn hrd 2/22 1353-1405 t/out OM in uninterrupted Indo speech, 242 (Bundy)
- 3370t MOZAMBIQUE R Beira, 0303 Afr mx past 0309, 0311 RTTY burial (Young)
- 3375 BRAZIL R Olinda Pernambuco pres. 3/17 0817 Braz anmts; poor mod, 343 (Hauser)
- 3377.5 JAPAN NHK HS2 0840 JJ //7285; 0950 GG lang lesson P-F 2/21 142(Bundy)(Oaka-ed)
- 3380 MALANI MBC Blantyre 0345 Afr 0400 EE nx, P (Behr) pop mx, P 2110*(Martin-Eng)
- 3385 NEW BRITAIN R Rabaul in by 0805, slinky guitars, G (Perry) 1222 Pidgin nx 2/25 242(Miller) 1300-1402* hymns, island mx, GSTQ x-1300* Sparks, Tuchscherer, Behr
- 3385 GULIANA FRENCH ORTF Cayenne 2/23 0902 FF pgm summary /another stn (Hauser)
- 3385 VENEZUELA R Barcelona 0207-0214 SS in clear (Young) 0320-0325 pop songs and ID 2/28 432 (Zilmer, Sparks)
- 3388 BRAZIL RC de Teresina 0822 not rare but E one nite (last reported in Oct LR on 3985 nominal; did I read your frequency right? -ed) (Schnabel)
- 3390 ECUADOR R Zaracay 1026 ID, mx usually QRWed (Odlin) 1050 G (Robins) 1118 2/20 Mejoral Ecuatoriano ad (special blend?), Radioperiódico, 422 RTTY QRM (Hauser)
- 3395 VENEZUELA R Universidad, YVOJ, Mérida, 0355 past 0400 LA mx 2/18 443 (Zilmer)
- 3396 RHODESIA RBC Gwelo after Ven off 0400 nx 0410 pops -0425 w/ads (Zilmer 2/24 432, Tuchscherer 2/28, Ferry F-G)
- 3450u ? 3/12 1037 song, SS "Cadena Radial Paraíso(?)", 1043 CWQRM; harm? (Hauser)
- 3520t GALAPAGOS LV de Galápagos 2/23 0400 SS talk 322 (Zilmer) (very likely -ed)
- 3668 TIMOR PORT Dfili PP talk 1050, P (Huttt)
- 3755 ECUADOR R Latacunga 0748 LA mx, G (Schnabel) (must be extended sked; ID? -ed)
- 3885v CABO VERDE RCCV 2/21 2330 PP on late, special event? freq up (Shaw) 3883, 2330 pop mx, short nx, 0000 NA, s/off varies nightly (Duba)
- 3900 CHINA Fukien Front stronger than earlier in season, 1040 YL CC none //(Huttt)
- 3905 INDONESIA 2nd station w/"Love Ambon" after Djajapura concluded same, 1400* 2/19 VP; Goonetilleke says Palangkaraya runs past 1400; what's this? (Bundy)
- 3910 CABO VERDE R Barlavento 2350-0020 sentimental mx, ads, G but CWQRM (Martin-England) (Cf Mar LR, you report on 3930; now actually on nom? date? -ed)
- 3910 JAPAN FEN 0945 YL DJ, pop mx, F (Odlin) 3915 1506-1510 2/24 nx 333 (Hebron)
- 3930h CANADA CFCM Richmond Hill Ont 3x1310 EE 1600 2/17 O&W, ads, nx, 323 (Wiseberg) (If you live near this, it should not be reported as DX -ed)
- 3941.5 PAKISTAN RP Islamabad 1314 EE nx, ID into Urdu(?) ; no longer have to wait for Hupeh 1605* since RP is off freq, 2/23 USB 244 (Bundy)
- 3960t INDONESIA(SUMATERA) RRI Padang 1035-1105 all talk in lang, no 1100 ID (Huttt)
- 3960t MOGAMBIQUE R Pax PP, religious type mx 0415, VP, ARO QRM (Young)
- 3972t CAMEROUN Buea 0515 2/23 FF, low rhythms, prob. up from 3970, no ID (Shaw)
- 3985 CHINA R Peking 1410 EE nx, ID 2/24 (Sparks)
- 3985 ECUADOR R Escuelas Populares 1052-1103 Andean mx, ID, E (Tuchscherer, Ferry)
- 3990 TAIWAN AFNT 0952 classified ads; power increase? unusual GSA 2/23 333(Bundy)
- 3995t USSR RM Yakut 0830-1130 lte mx, long talk, never IS or ID; or SIBS? (Huttt)
- 3995 INDONESIA(SULAWESI) RRI Kendari 1120 Indo mx 1130 ID, local nx to 1140, on LSB 3/2 after SIBS 1115*, 243 (Bundy)
- 4066nf INDONESIA(WEST IRIAN) RRI Merauke IDs 3/3 1000, 1100, 1400*; relays Djajapura 0900-0930a; apparently replaces 3985; ute QRM so LSB, 233 (Bundy)
- 4130 CHINA RP unk lang 1125*, VV*1130-1155*, EEISEA *1200-1255* (All not listed by BECMS) then CCISEA *1300-1355* which is listed, 243 3/3 (Bundy)
- 42455t LAOS Patriotic Neutralist? VP obscuring lang, ID before but now unable to locate //8600v, so there is doubt, 121 2/23 (Bundy) At 1323!
- 4280a NUMBERS YL in EE 1430-1453 f/out G to unreadable (no name; no credit -ed)
- 4525 HAWAII NPM CW time station 2/12 0504, 455 (Swatkov) (IDs maybe, time no -ed)
- 45525 USA VOA Delano 1058 EE //6185, Strange Fq; (Odlin) (Not strange, it's fixed; wasn't carrier reduced? VOA might relieve SWBC congestion by using more -ed)
- 4627v SAHARA-SPANISH 2130-2201* many RNE IDs, pop & Afr mx (Reeves) R Aslun, *0800 SS, AA chants, 0825 gone, VP (Young) (Certainly more SWBC than NPM is! -ed)

- 4679.2 ECUADOR R Nac Espejo 0214 ID F (Peters) 0338 2/13 talk, LA pops 352 (SwatkoFF)
 4700t BOLIVIA R San Miguel 0306-0317* 2/12 lt mx P (Tuchscherer) 0255 chorus (Ferry)
 4725 BURMA BES Burmese mx, songs, YL ancr 1240 2/10, not //5040 (Sparks)
 4731 KASHMIR (PAK) Azad Kashmir R 1330 Urdu tk, mx to 1400* F (Behr)
 4740 Cf Mar LR; suggestion: harmonic may be better DX than Maldives (Hauser natch)
 4747 BRAZIL Emissora Acreana presumed 0117 past 0145 F, ute QRM (Dexter) (extreme distortion cleared up? date? nom 4885 -ed)
- 4750t VIETNAM NORTH Tay Bac 1300 VV talk and mx to 1335 fadeout, F (Behr)
 4759t CHINA Kunming 1147-1201 t/out 3/1 CC talk, songs (Tuchscherer)
 4760 INDIA AIR Delhi surprisingly good for late Feb, 1910-1920 OM vocals (Jensen)
 4760 PERU R Tingo Maria 0304 LA mx 0325 many IDs, bank ad, 0355* (Tuchscherer)
 4764 INDONESIA (SUMATERA) RRI Medan (?) 1330 mx, 1400 II nx F (Behr) 4765, 0000 ID, II nx, P (Martin-England)
- 4765 CONGO RTVC 2200 2/17 Afr FF talk (Herson) ± 4766 2219 FF mx P (Peters) 2240-2246* abruptly 3/3 native mx, lang 343 (Miller) 0500-0530 FF Revolution (Reeves)
 4765 BRAZIL R Feira de Santana 0020 PP pop mx, het, 0025 ID, G (Martin-England)
 4765 ECUADOR GRE 0350 3/1 dance, semipop mx, 443 (Zilmer) 0405 SS nx, ID, NA, 0405* (Duba) 1050 odd, but rel px, 1100 nx, 2/22 (Tuchscherer)
- 4770 VENEZUELA R Bolivar 0205 slow LA mx G (Peters) 0355 3/1 LA mx, 433 (Zilmer)
 4770 LIBERIA ELMA 2229 ES hymns, rel mx F-G (Peters, Reeves) 0710 BBC nx G (Robins)
 4770.8n CHINA RP Burmese *1300-1325* //6825 3/3, Thai *1330-1425* VP (Bundy)
 4771 KOREA NORTH KBS 1350 KK vocals seems *1330 now, QRM Peking, F 3/3 (Bundy)
 4771 ECUADOR R Genit 0415-0433* HC mx, voice distort IDs, NA, Dom Rep off (Reeves)
 4775 DOMINICAN REP Onda Musical SS tk, LA mx: 0130 2/23 444 (Zilmer) 0230 2/14 343 (Nordstrom) 0340 2/12 353 (SwatkoFF) (cf 4782 -ed)
- 4775 AFGHANISTAN R Afghanistan 1400 EE ID, nx F (Behr)
 4777 GABON RTVC 2223-2228 FF, much mx G (Peters) 0505 2/17 OM FF (Mayer) 4775 1950 FF Afr jazz, 2000 FF nx, F-G (Martin-England) (sure about that frequency? -ed)
- 4780 VENEZUELA LV de Carabobo 2320 LA tunes, few IDs F (Duba) ± 1200 LA mx, tk, QRM Honduras, 433 2/28 (Zilmer)
- 4780 HONDURAS R Juticalpa 1145 3/1 LA mx, 443 (Zilmer)
 4782 DOMINICAN REP Onda Musical 0220-0300 SS IDs mx F (Hafer) (date? cf 4775 -ed)
 4783v MALI R Mali back here 2/28 2150-2240; 4787 was better (Reeves) 4785.2 ± 2216-2220 f/out, annts then Afr chant, P (Peters) (date? -ed)
- 4785 PERU R Atlántida 0404-0425 lively SS melodies, few annts FG 2/25 (Tuchscherer) 0415 guitar instrumentals (Duba)
- 4791 ECUADOR R Atalaya 0305-0318* sports, march mx, NA, 2/15 only (Tuchscherer)
 4794.8 ECUADOR LV de los Carás 0355 2/13 SS tk, LA mx, NA 0404* (SwatkoFF) 4795 0345 SS LA mx, F (Guarducci)
- 4796.5 BOLIVIA R Nueva América 0440 SS mx, QRM, "Música de Nueva América", sometimes IDs as "RNA", 0501* (Oálin)
- 4800 VENEZUELA R Lara 0234 2/27 SS man reads story w/musical background, 433 (Miller) 0236 2/14 SS mx and talk, 433 (Nordstrom)
- 4800nf CHINA Peking HSI *1100-1735*, no local IDs; also *2000; not Shanghai, 2/16, F 2/21 (Bundy) ± 1330 CC HS mx & talk, //7145, G (Behr)
- 4800v ECUADOR R Popular 0536-0557* "música popular" 7 kHz off 2/23 only, NA (Tuchscherer) 0500 Ec mx, SS ID, NA, 0600*v to 0620*, also announces as LV del Austro (Behr) (2/23 only for you too? pse give dates; cf 4807 -ed)
- 4804 KENYA VOK again, YL ancr 0408 2/8, P-F (Dexter)
 4805t BRAZIL Rif do Amazonas, 2330 PP sports, weak u/silent ute carrier (Duba)
 4807a ECUADOR R Popular 0300 SS talk 2/28 433 (Zilmer) (could it have been 4800? -ed)
 4807 RÉUNION ORTF St-Denis YL talk, pop mx, FF 1500 2/15 (Sparks)
 4810 VENEZUELA R Popular 0150 EE & SS vocals G (Duba) 0305-0329 2/25 jazz, Basie (Tuchscherer) 0315 2/28 LA mx 443 (Zilmer)
- 4815 UPPER VOLTA RTVV 2215 FF OM tk, P (Duba) 0630 pops, FF DJ, also 2205-2304*; morn G, eves P, NA like 4895 (qv -ed) (Reeves) (You mean like similar or like the same? -ed) 0705 FF talk, lots of mx, F (Wood)
- 4820 ANGOLA EO 2110-2256 EE roknrol, PP, class mx YL, lotsa hets F-G o/tentative Gambia (Reeves) ± 2230 2/13 PP native mx, 232 (Nordstrom)
- 4820 GAMBIA R Gambia 2230-2300 EE & Vern mx, 2255 nx, improved (Duba) *0630-0800* AA mx 0630. (Hagen) 0700 BBC nx, 0710 nat'l nx, vernac nx, BBC "Nx of African World" (Sparks 2/13, Wood P, Cwikla 454)
- 4820 ECUADOR R Paz y Bien 0940 2/13 SS tlk, mx, 0958 lost to HRVC (Tuchscherer)
 4820 HONDURAS HRVC EE 0317-0358 rel px (Nordstrom 2/14 323, SwatkoFF 2/12 121)

- 4820 INDIA AIR Calcutta 1345 EE past 1400, F (Behr)
- 4825 USSR R Moscow 1200 IS, CG past 1300; Khabarovsk? (Behr)(WRTH: Vladivostok -ed)
- 4825 DOMINICAN REP LV Fuerzas Armadas 2230 classical mx 2/13 444 (Nordstrom) 2300 LA mx, 2350 ID, strong (Martin-England) 0300 LA mx //3200 2/18 534 (Zilmer) 0450-0502* EL mx, NA, in the clear 2/24 only (Tuchscherer)
- 4832 COSTA RICA R Capital 0110 LA mx, IDs 2/15 353 (Ricohezza) 0438 Latin mx, EE (J-ed) many IDs, no nx 2/20 444 (Wicks) 0520 SS mx, many IDs 2/21 444 (Nordstrom) 0530-0600 LA mx 2/13 (M. Marshall)
- 4835 SARAWAK RMS nice level 1305, C&W mx, lang anmts (Perry)(regular here -ed)
- 4835 GUATEMALA Cf Jan LR; ID of station active only 3-4 days in November seems to be R Tecuruplan, at Calle San Marcos, Cobán, Alta Verapaz (Jensen)
- 4839t ZAIRE Bukavu, something FF 0520 2/23, probably gone for season now (Shaw)
- 4841vu ? BBC w/regular 3-note IS 0313, EE ID, Farsi px to 0345 AA, past 0430, F-P w/QRN but no fade; some mod problems, not SSB; not rx problem, BBC relay from where to where? Only 3/5; after that ute took over (Reeves)
- 4843 CONGO Pointe-Noire relay best ever 2/21 0515 FF OM to ute burial 0520(Perry) 0510 African mx w/instrumental pieces (Young)
- 4845 BRAZIL Rdif Teresina *0900-0925 2/22 PP LA mx, nx (Bartolo) PP 0402* (Reeves)
- 4845 BOTSWANA RB Gaberones *0358 bell IS, NA, EE px summ, then vernac past 0450 RTTY takeover, not hrd since 3/5 (Reeves) *0400 AF mx, 0430 EE nx, G every day at opening, f/out by 0515 (Hagen) 0400-0440 3/2, P (Mayer) 0415 presumed 2/22, all mx and chants, G (Shaw) 0418 Setswana native mx 2/24, 232 (Miller)
- 4845 MALAYSIA RM 1330 S Asian mx, talk, QTH? (Behr) (WRTH: Kajang -ed)
- 4850 CHINA Peking HS2 list, 1220-1230 CG mx, talk, GJKT ID, 2/18 243 (Bundy)
- 4850v MAURITANIA Nouakchott 2110-2230* or 2240* AA chants, FF; 2200 AA nx, 2210 FF nx, 2230 ID (Reeves G, little RTTY; Nordstrom 443, CWQRN; Robins F; Peters F) 0708 Koranic chant, then local mx G (Schnabel) 0730 FF nx, guitar 2/19(Sparks)
- 4855 MOZAMBIQUE RGM 0355 mx IS, PP, often G (Behr) nightly, chimes etc (Reeves)
- 4860 VENEZUELA R Maracaibo 0000 SS mx G 3/6 (Pyatt) 0020 LA mx, ID G(Martin-England)
- 4860u ? 0700 do-re-mi-re-do 16 chimes, "Govorit' Morch(?)" by YL in RR(?), no chime after 0707, fade after 0715 (Reeves) (Espionage? -ed)
- 4865 AÇORES Malssora Regional 2220 classical mx, PP 2/16 333 (Nordstrom)
- 4865u ANGOLA? 2228 classical piano mx 3/3 F, CWQRN (Peters) (matches Agores -ed)
- 4865v COLOMBIA LV del Cinaruco 0650 CARACOL IDs, USB best (Odlin)
- 4870 ECUADOR R Rio Amazonas 1105 Quechua mx, OM ancer; language is distinctive w/ lots of 'ya-yas'; 1127 a flute IS 2/24 (Odlin)
- 4870 DAHOMEY Cotonou 0525-0605 FF, vernacular, African mx, P 2/17 (Tuchscherer)
- 4875 SOUTH AFRICA SABC 2200 religious px, Afrikaans? 2/14 G (Herson)
- 4875 BOLIVIA La Cruz del Sur c/on 0954, NA, SS by OM, local lang by TL, G-E past 1130 (Reeves)
- 4880 DOMINICAN REP R Comercial 0420 many IDs 2/17 243 (Nordstrom)
- 4880 VENEZUELA R Universo 2345 LA mx, ads, QRN de DR-4882 (Duba) 0320 ID (Sparks)
- 4880 ZAIRE Kinshasa 0515 OM FF, G but noisy (Perry) 0545 Afr mx, FF 2/22 (Sparks)
- 4885 PERU R Villarica 0620 past 0645 extremely rapid IDs, Andean mx, G (Dexter) 0430 fiesta mx, ID 2/12 (Sparks) 4886± 0500 Andean mx, SS past 0610 2/18 only (Behr)
- 4890 PAPUA Port Moresby 1245-1255 mostly EE vocals, G 2/21 (Idnback)
- 4890 VENEZUELA Rdif Venezuela 0310 SS 2/14 544(Nordstrom) 0345 US pops, 0403(Duba)
- 4891 MOZAMBIQUE RGM Beira 0410 PP, some Afr mx past 0421 E (Young) ± 0400 gongs "Aqui Portugal...", mx, almost as good as RGM-4855 (Behr) ± PP mx, IDs, TGs, greetings, chimes, weaker than 4855 the list more power (no time -ed)(Reeves) 4890 0415 pops, PP, E (Heutte)
- 4894.5 BRAZIL R Baré 0900-ID, Manaus QTH, mx (Odlin) 4895 0410 mx, ID; strength jumps as if testing now xatr, E (Dexter) 0418-0431 LA, US mx, brilliant 2/13, but not since (Tuchscherer)
- 4895 BURUNDI R Cordac 0330 guitar IS, native w/on, 0334 rel mx P (Young) (date? I thought government closed this station.... -ed)
- 4895t UPPER VOLTA? 2150-2306* bay 2310* 2/26-27; slow & quiet AA chants, Afr mx, FF by OM, various IDs, NA and off; hi power? G-E, not hrd since; one ID like "La Voix Noir", another may have mentioned "Voltaïque" (Reeves)(cf 4815 & below-ed)
- 4896t SOUTH AFRICA Convinced this is SABC, Springbok; off at 2305 w/out AP anthems ruling out Port territories; much resembles SABC; powerhouse; Bantu? 2/22(Shaw) (Maybe, but 2305 doesn't appear in WRTH as a/off time for any SABC freq -ed)
- 4896 ANGOLA RC do Bié 2245-2302* w/AP, F 2/25 (Siser)

- 4755 BRASIL Rdif do Maranhao good with mx and PP ID at 0905 (Eichenhorn)
 4765 ECUADOR CRE fair with SS mx, ID, mx to 0400* (Eichenhorn)
 4830 COSTA RICA R Capital fair with SS sports event at 0404 (Eichenhorn)
 4890t SENEGAL Dakar fair with singing and FF anmts at 0745 (Eichenhorn)
 4895 BRASIL R Bare fair with instrumental mx (Eichenhorn)
 4900 ECUADOR LV Sasquisilí at 0430-0550 and 1000 with Andean mx and SS anmts; seems to ID as R Liberatora also (Behr, Heute, Reeves)
 4900 USA-PIRATE Hard rock mx with xmtr problems heard 7 March, no ID caught; irregular operation; heard at 2131 (Robins)
 4905 BRASIL R Relogio with fast PP xmsn at 2150-2330 (Behr, Lohe, Reeves)
 4905 COLOMBIA Em Atlantico good with SS talk at 0200 (Duba)
 4905v CHAD Rdif Nationale with AA chants, FF and AA talks to 2134v* (Reeves)
 4912v DOMINICAN REPUBLIC R HIN at 0500-0840 with SS mx, talks, ads and such; seems to run nonstop most nights; dual 1220 (Lineback, Odlin, Reeves)
 4915 BRASIL Rdif Macapa good at 0900-0947 with PP mx pgm, IDs (Field)
 4915 COLOMBIA R Guatapuri fair with LA mx, anmts, anthem at 0450* (Miller)
 4915 GHANA Accra good at 0610-0710 in EE with talks, mx, IDs (Mayer, Eichenhorn, Wood)
 4915 KENYA VOK good with Swahili mx, cmtry, mx 0400-0500 (Barto, Heute) at last
 4917.4 MANCHURIA Ha-erh-pin with CC talk and mx at 1300-1426* per sked (Behr) t with talk by man and woman in KK-sounding language at 0937 (Hauser)
 4920 AUSTRALIA VIMA at 1240-1400* with EE mx, mx, racing (Herson, Robins, Straus)
 4920 HONDURAS R Progreso poor-good at 0115-0445 with SS talks, LA and US mx, IDs (Barto, Duba, Eichenhorn, Field, Guarducci, Marshall, Mayer, Straus, Swatko) 1145 with LA mx, jingles (Zilmer)
 4923 ECUADOR R Quito at 0110-0415 with classica, LA mx, IDs, TCs (Reeves)
 4926 RIO MUNI R Bata at 0500-0645 fade with African mx, SS anmts, good-exc (Hagen, Perry, Sparks) t at 0525 with steel drum, organ mx, good (Shaw)
 4930 DOMINICAN REPUBLIC R MII with SS anmts, mx, ads, letterbox, dual 1180; good-exc (Cwikla, Mayer, Nordstrom, Pyatt)
 4932 NIGERIA Benin City at *0430-0530 in vernacular anmts, mx, NBC mx (Hagen, Shaw) 2150-2230 with African pops, fair; IDs in EE & vernacular (Reeves)
 4935 MARTINIQUE Fort-de-France PTT at 0005-0030 with usual receiver adjustment tape in FF (Lohe) Not SWBC, but interesting; utilities in the broadcasting bands and vice versa-see 5568t FH
 4937 ANGOLA R Clube do Lobito at *0530 with anthem, PP ID, anmts, African mx (Young) 2300* with perfect PP ID and A Portugues (Shaw)
 4938v Unid African with African mx, drums, talk in language (Herson) At 2215
 4940 ECUADOR R Nacional fair at 0430 with classical mx (Guarducci)
 4940 IVORY COAST RTV Ivoirienne fair with FF talk pgm, mx, drum mx at 2113-2245 (Herson, Nordstrom, Peters)
 4945 COLOMBIA R Colosal fair at 0450-0930 with SS mx, mx (Eichenhorn, Nordstrom)
 4945 SOUTH AFRICA good at 0305-0430 and 2200 with TCs, ads, IDs for Springbok R in EE & Afrikaans (Mayer, Robins, Herson)
 4950 SARAWAK RMS Kuching, fair with CC at 1330, EE at 1400 (Behr)
 4952v CHINA RP HSI at 1344 with CC mx, unstable and QRM; xmtr unknown (Bundy-Pac)
 4955 COLOMBIA R Nacional fair at 0450 in SS mx (Guarducci)
 4960 ECUADOR R Federacion Sucua at 0138 tune with mx, IDs, news on the hour (Dexter) I assume you meant this frequency, Gerry, you had 4980 written FH 1050-1120 in Indian language, SS language lesson, exc (Lohe)
 4960 VENEZUELA R Sucre weak with LA mx, IDs at 0610 and 0910 (Odlin)
 4965 SOUTH AFRICA SABC Internal Svc at 0410 with talk in EE on farming, fair (Mayer) 2130-2215 fair with local ads, US pope (Estes)
 4965 SOUTH AFRICA (Opps, that's COLOMBIA) R Santa Fe at 0035-0730 with SS IDs, guitar mx, ads, fair (Eichenhorn, Peters, Hafer)
 4970 VENEZUELA R Rumbos good at 0400 with SS mx and stn jingles (Nordstrom)
 4972.5 CAMEROON R Yaounde fair with ute QRM at 2500 with tam-tams, EE nx 05450600 (Perry, Shaw) 2215 very poor with FF mx and anmts (Peters)
 4975 BRASIL R Timbira fair with RTTY at 0015, PP mx and IDs (Herson)
 4975 PERU R Del Pacifico briefly at 0420 with organ mx, woman in SS (Dexter)
 4980 GHANA Ejura at 0535 in EE (Mayer) 2240-2300* with EE rel px, ID (Peters)
 4980 VENEZUELA Ecos del Torbes at 0125-0355 with LA mx, IDs (Nordstrom, Ricchezza)
 4985 ANGOLA R Eclesia with pops, PP ID 0500, generally good (Dexter, Tascherer)

- 4988t UNION OF ARAB EMIRATES Abu Dhabi possibly here with AA chants at 0450, nx read by a woman at 0500 (Barto)
- 4990 NIGERIA Lagos fair at 0439-0615 and 2200 with EE nx, mx (Reeves, Tuchscherer, Wood)
- 4990 VENEZUELA R Barquisimeto at 0100-0359* with LA mx, US pops, ads, good (Estes, Hafer, Nordstrom, Wawroski)
- 4995 BRASIL R Brasil Central running late 0540-0830 in PP with mx, IDs, US and LA mx (Heutte, Tuchscherer)
- 4996 PERU R Andina good with Andean mx, SS amts all night (Behr, Reeves)
- 5000 ARGENTINA LOL at 0030 with CW ID under WWV (Herson)
- 5000 ITALY IBF at 0700 with CW ID and voice amnt (Heutte)
- 5005 PERU R La Convencion, Quillabamba at 0430-0610* with LA mx, IDs (Behr)
- 5010 CAMEROUN R Garoua fair with chanting, flute mx at 0500-0514 (Barto)
- 5010 DOMINICAN REPUBLIC R Cristal at 2230-0830 with LA mx, PSAs, IDs, SS amts (Eichenhorn, Hauser, Nordstrom, Olin, Heutte)
- 5015 GRENADA RG at 2245-2345* with EE nx, mx (Nordstrom, Wood) Running late for special on new tennis court (1) to abrupt 0030* on Feb 27 (Reeves)
- 5015 RSFSR-Asiatic Vladivostok fine in RR at 1217 (Schnabel)
- 5020 ECUADOR R Centinela del Sur good at 0415 with Andean mx, SS ID (Heutte)
- 5020 NIGER ORTN-Nlamey at 0530 with flute IS and FF man; weak (Shaw)
- 5020 VENEZUELA R Mac noted with ID at 0030, fair (Heutte)
- 5027 BRASIL LV de Rio Sao Francisco at 0815-0900 weak to fair with PP mx, amts, ads and TC (Young, Lohe, Field)
- 5030 VENEZUELA R Continente with LA mx, gongs, ads 0130-0415 (Herson, Nordstrom)
- 5030 SARAWAK RMS fair at 1330 with Bidayuh talk and mx (Behr)
- 5035 SUDAN R Qadurman fair with AA talk and chanting at 0415-0430 (Mayer, Wood)
- 5035 KAZAKH SSR Cf Feb LR: My unid Asian was R Alma Ata sex Ernie Behr. FH
- 5037.6 Unid at 0432 with man in FF, very poor, possibly Bangui (Peters)
- 5038 CENTRAL AFRICAN REP at 2200-0000* with FF mx, talks, poor-fair only (Herson, Wood) 5035 at 0540-0600 good with FF IDs, African mx (Hafer) 5039 at 2220 clear with classical mx (Reeves)
- 5039 ECUADOR R Mac Espejo, Puyo at 0330-0503* with SS mx, IDs, anthem (Behr)
- 5040 BURMA BES at 115-1215 with piano mx and amts, talks in BB (Reeves, Zilmer)
- 5040 GEORGIAN SSR R Tbilisi at 0300 in RR with six bells, TC (Lohe)
- 5040t PERU R Mar weak and hrd Feb 7 only; SS ID and anthem at 0501* (Behr)
- 5040 SUDAN Qadurman clear with ID and AA mx at 0430 (Schnabel)
- 5041 GUINEA-Portuguese Bissau hrd before 0400 now (Young) t at 0540 with African rhythms and possible PP (Shaw)
- 5042 PERU R Libertad de Junin at 0345-0856 with Andean mx, IDs, Happy Birthday featre, generally good (Dexter, Hauser, Heutte, Parry, Shaw)
- 5045 ANGOLA R Clube de Benguela at *0530 in PP; loud het on Togo; more power possibly than listed 1 KW because is quite strong (Young) FB, Jiml FH
- 5045v BOLIVIA LV del Altiplano at 0450-1030 with Andean mx, ads (Duba, Reeves)
- 5047 TOGO Loms at 0615-0645 with FF talk, mx, ER Lesson (L. Marshall, Swatkoff)
- 5049.4 Unid at 0425 with NSF QRM, SS mx and amts, poor (Peters)
- 5050 VENEZUELA R Mundial fair at 0940 with mx and IDs in SS (Nordstrom)
- 5054 INDONESIA RRI-Yungpandang at 1330 with mx, 1400 Indon mx (Behr, Heutte)
- 5060 ANGOLA R Clube do Huambo at 0530-0540 dual 7160 with PP amts (Shaw, Young)
- 6060 YEMEN Aden at 0447-0511 in AA, hrd well and QSLed (Barto) Fine, Saml FH
- 5065 Unid at 0440 with oriental mx and lang, poor (Peters) Possibly Tirana. FH
- 5075 COLOMBIA R Sutatensa 0100-0400* and 0900-0935 in SS with nx, mx (Eichenhorn, Hafer, M. Marshall, Nordstrom)
- 5076t ANGOLA R Clube do Mexico with PP amts and lively mx at 0550 (Young)
- 5084 INDONESIA RRI-Medan with Indon mx and nx at 1330-1400; dual 4764? (Behr)
- 5095 COLOMBIA R Sutatensa until 0202*, 5075 continues; sometimes dual (Reeves)
- 5273 PARAGUAY RP good in SS until covered; mx at 0015 (Herson)
- 5290 RSFSR-Asiatic (Zone 18) Krasnoyarsk is my unid at 0100, advises Ernie Behr.
- 5400H MEXICO XEZO-Ciudad Camargo very good with nortena mx, TCs 19 minutes slow! Some CW QRM (4x1350)(Hauser)
- 5525 CHINA Hsinhua 1st; woman in CC dictation at 1130, reduced carrier (Hauser)
- 5560 JAVA RRI(sometimes)-Surabaya with amts at 1059, then warta berita (Hauser)
- 5568 COLOMBIA Ecos de Puerto Martinez around 0000-0200; sign off varies and is abrupt; this is an aero channel and could be pirated aero xmtx; legality is

- 5568 doubtful as no ads were heard; stn announces at 5155 and a 49 meter channel; program is mainly accordion or African mx; letters mentioned from Cartagena and Veracruz; location is supposedly Puerto Martines in Choco Department, but not listed in atlases; may be a boom-town on the Panamerican Hwy (Hauser)
- 5875 HONDURAS LV de Honduras good at 0300-0335 with sports, ads, IDs, mx, nx (Eichenhorn, Wood) *1100 with IDs, ads, short talks (Wiseberg)
- 5925 CHINA RP in RR at 1219, severely jammed and poor (Bundy-Pac)
- 5930 CZECHOSLOVAKIA R Prague in EE to NA at *0100-0155*, *0300-0355*, *0500-0555* with nx, cntry, letterbox, folk mx (Fino, Hermann, Kelleher, Wiseberg)
- 5935 CHINA Lhasa relay of HSI tuned at 1220 over uni; dual 4035 9490 (Bundy-Pac)
- 5935 LATVIAN SSR R Riga fair in Swedish Tue-Thu-Sat at 2130-2200* (Behr)
- 5935 RSPSR R Stantsiya Yunost, 1400 RR youth pgm, dual 5900, both powerful over VOA and RTTY QRM, signal equal to Tashkent-6025; Central Asia QTH? (Behr)
- 5935 USA VOA feeder with lang talk, EE ID 1390, into Korean (Tuchscherer)
- 5955 GUATEMALA TONA fair-strong with EE rel pgms at 0300-0430* (Herson, Hebron, Robins)
- 5960 CANADA CBC Northern Svc very good at 0300 with Eskimo and mx (Archard)
- 5960 USSR RM with SS to IA at 2205, excellent signal (Reeves) Believe it's Kiev or Minsk, this frequency has always been a big question mark, hi. FH
- 5965 BRASIL R Guaba with some QRM; PP mx and ID 0830 (Odlin)
- 5970 CANADA RCI exc at *0830 and 1245 with mx, features (Odlin, Srebnick)
- 5970 DOMINICAN REPUBLIC RTV Dominicana at 0045-0300 and 1100-1150 with SS nx, mx, jingles, ads, very good (Mayer, Heutte, Zilmer)
- 5970 PERU R El Sol at 0505-0530 with SS nx and ads, very poor (Patterson) 1146 with SS mailbag program, good (Miller) 5975 ENGLAND BBC SS nx 0104 (Peters)
- 5980 EL SALVADOR R Nac at 2215-0350 with SS mx, talks, IDs (Lineback, Patterson, Peters, Ricchezza, Wood)
- 5980 SIBERIA LEONE RSL fine at 0755 with West African mx, jingles, nx (Perry)
- 5985 USA WHYY at 0000-0030 in SS with rel pgm, nx, mx (L. Marshall, Wiseberg)
- 5990 ECUADOR HCJB good at *0430-0530* and *0600 in RR, then GG, with rel pgms, singing, talks (Estes, Fino)
- 5990 JAPAN NHK GOS in EE with nx at 1200 and 1515, fair (Archard, Fyatt)
- 5995 USA VOA-Greenville with Breakfast Show in EE at 0323, strong (McCool)
- 5995 VATICAN VR in EE at 0050, FF at 0100, rel pgms (Estes, Fino, L. Marshall, Wicks)
- 6000 BRASIL R Inconfidencia at 0800-0810 and 2330 with PP IDs, talks, mx (Nordstrom, Odlin, Wood)
- 6005 CANADA CFUX with EE DJ pgm at 1340-1650 with nx, mx (Kozioniowski, Robins, Srebnick)
- 6005 GERMAN FEDERAL REP RIAS could be either Munich or Berlin; no changeover was noted in Europe last summer at 0315 or 1540; using one site only (Behr)
- 6006 COSTA RICA R Reloj at 0145-0335 and 1130-1215 with SS IDs, mx, talks, fair to good (Fino, Lineback, Patterson, Srebnick, Wiseberg, Wawroski)
- 6010 IRELAND RAI in EE to NA at *0100-0120* with nx, mx (Hermann, Wicks, Wiseberg)
- 6010 VENEZUELA R Los Andes at 1110-1130 with SS PSAs, mx, IDs, TCs, ads; R Reloj QRM (Lohe) FB, Ernie! First NA report in more than a year. FH
- 6015 COLOMBIA R Mira with mx pgm and two IDs to fade at 1130 (Field)
- 6015 CZECHOSLOVAKIA R Prague with ID, frequency amnt at 0150* (Kozioniowski)
- 6015 SWITZERLAND SBC with EE DX pgm at 0210 (Kozioniowski)
- 6015 PARAGUAY R Paraguay weak with SS vocals, IDs at 1045-1135 (Tuchscherer)
- 6020 NETHERLANDS ANTILLES RNB in SS at 0030-0130 with talks, mx (Fino, Estes)
- 6020 PERU R Victoria fair with mx at 0650-0656* (Guarducci, Odlin) 1058 with SS ID and LA mx (Lohe)
- 6020 USA VOA-Greenville strong at 0300 with EE ID, then RR pgm (McCool)
- 6029 NIGERIA Emgu at 0545 with hymns, 0600 EE nx (Tuchscherer)
- 6025 PORTUGAL RP at 0210 with EE cntry (Kozioniowski) 0345-0430 with EE cntry, mx, good (Lineback)
- 6025 USSR R Tashkent with EE nx at 1205 (Straus)
- 6030 GERMAN FEDERAL REPUBLIC DW at 0213 with EE and mx (Kozioniowski)
- 6030 GERMAN FEDERAL REPUBLIC Sueddeutscher Rundfunk-Stuttgart at 0640 in GG (Lohe)
- 6035 BRASIL R Globo at 2345-0330 with PP mx, ads, IDs (Herson, Wood)
- 6037 COSTA RICA TIFC at 0400-0430 with EE rel pgms, poor (Herson, Mayer)
- 6040 COLOMBIA LV del Tolima at 0030 and 1150 with SS nx, mx (Reeves, Zilmer)

- 6040 GERMAN FEDERAL REPUBLIC DW at 0200-0230 with EE and US pops (Estes)
 6040 TANGIER VOA at 0350-0410 with EE Breakfast Show, nx, mx (Fino, Kelleher)
 6050 GERMAN DEMOCRATIC REPUBLIC RFI at 2130-2230 in Eur. langs; new sked? (Behr)
 6055 JAPAN NSB with swing mx, JJ smnts, ID at 1350-1430 (Perry)
 6060 USSR RM fair to good with EE nx and comment at 0350 (Kelleher)
 6065 SPAIN RNE at 0216 with EE cmtry (Kosionkowski)
 6070 CANADA CFXR with EE at 1500-1940, nx, mx, ads (Archard, Hafer, Kosionkowski)
 6080 ALGERIA RTVA fair at 0645 with AA chanting (Nordstrom)
 6080 CANADA CKFX at 0023 with pop mx, dual 1130, under RSA (Odlin)
 6080 SOUTH AFRICA R RSA good in EE at 2341 (Srebnick)
 6083 PERU R Mac at 0400 with man in SS and LA mx (Shaw)
 6085 GERMAN FEDERAL REPUBLIC DW at 0405-0420 in GG with ID, nx, cmtry (Fino)
 6085 GERMAN FEDERAL REPUBLIC Bayerische Rundfunk exc at 0615 with GG mx, TC (Lohe)
 6085 ZAIRE R Kisangani clear at 0447 with drums and female ancr (Young)
 6090 AUSTRALIA VL16 at 1206-1221 with mx, TC, singing, man ancr, poor (Patterson)
 6090 LUXEMBOURG RLI at 2235-0745 in EE and GG with rel and pop pgms, sked is irreg and *0000 sometimes (Lineback, Reeves, Schwartz, Wicks, Wiseberg)
 6090 MOZAMBIQUE R Beira-Dondo with IS at *0430, bat from 6090 (Young) Dual 4891
 6091 KHMER REPUBLIC RNE at 1435-1505 with FF and Khmer mx, smnts, QRM (Bundy-Pac)
 6095 COLOMBIA LV del Centro vy strong at 0500 with ID, mx, TCs (Behr) 1125 (Zilmer)
 6097 Unid AA stn at 2245-2330* with chants, Tunis or Baghdad? (Behr, Reeves)
 6100 CHILE R Calama at 1030-1100 fade with music pgm, weak (Field) FR, Marlin FH
 6100 RFE, location unknown at 2339 in Czech on new freq. dual 7115 et al (Behr)
 6105 MEXICO XEOM at 1157-1245 with SS ranchera, TCs, man ancr (Miller, Patterson)
 6105 COLOMBIA LV del Llano good at 0115-0458 and 1115 in SS with mx (Dexter, Herson, Zilmer)
 6115 CONGO RTVC at 0635-0650 with talk by man (Tuchscherer) 2120* abrupt off after repetitive African tune, FF ID, no sked for this time (Bundy-Pac)
 6120 ARGENTINA SBC fair with EE to NA at 0145-0215, mx, talks, mx (Wiseberg)
 6120 Unid African at *0730v after stick drum IS, splatter, weak (Young)
 6125 GERMAN DEMOCRATIC REPUBLIC RFI at 2130-2140 in EE to Europe (Tuchscherer)
 6125 HONDURAS R Supaya with nx and IDs in SP at 0525-0535 (Tuchscherer)
 6130 NEWWAY RN in EE at 0610-0635* with talk, local mx, CHNI QRM (Swatoff)
 6130 PHILIPPINES VOA-Tinang at 0123 with EE Report to the Americas, good (Peters)
 6140 AUSTRALIA VLW6 Perth poor with EE talk at 1551 (Swatoff)
 6140v COLOMBIA R El Sol all night in SS with mx, TCs, ads, seems to be on 6142 more often (Guarducci, Lineback, Schnabel, Odlin, Patterson, Sparks, Swatoff, Young, Zilmer)
 6140 BURUNDI LV de la Revolution with IS 0332, *0935; 0417 FF nx (Perry)
 6144 NIGERIA Calabar noted at 2225-2250 with pops, ccontest ancr (Reeves)
 6147 HAITI R Citadelle at 0153-0234 with US pops, TL FF ID (Tuchscherer)
 6150 AUSTRALIA WLR6 with pops, nx and wx report, 1230-1302* (Cwikla)
 6150 ROMANIA R Bucharest at 0142 with EE nx (Kosionkowski)
 6151 PERU R Pucallpa at 0300-0454* with LA mx, anthem (Behr) List 6155. FH
 6153 CHINA RP in HSL, new frequency, at 1228, poor (Bundy-Pac)
 6155 JAPAN FEN at 1300-1315 with EE ID, nx, instrumental mx (Perry)
 6160 CANADA CKZN-Vancouver with EE nx, wx at 0800, poor (No credit)
 6160 COLOMBIA R Nueva Granada at 0050-0300 with SS nx, mx, usually covered by DW (Eichenhorn, Peters, Schnabel, Zilmer) I just realized how little room
 6165 CANADA RCI good at 2010 in FF (Srebnick) I've got; will have to cut! FH
 6165 GERMAN DEMOCRATIC REPUBLIC RFI in GG to NA at 0415-0500, nx, mx (Schwartz)
 6165 MEXICO LV de la America Latina fair at 0510 with SS talk about \$ (Guarducci)
 6175 PERU R Tuantisuyu exc at 1045 with Andean mx (Schnabel) M. Marshall
 6180 GUATEMALA LV de Guatemala at 0100-0545 in SS (Cwikla, Herson, Odlin, Lineback,
 6195 SOUTH AFRICA Springbok R at 0300-0415 with EE mx, ads (Cwikla, Hafer)
 6195 MALAYSIA BHC-Tebrau fair-good in EE and pops at 1220 (Perry)
 6195 NIGERIA NBC-Sokoto at 0530 with African mx, 0600 EE ID and nx (Behr)
 6196 CLANDESTINE V of Pathet Lao at 1413 with Lao talks dual 7304 4657 (Bundy-Pac)
 6197 PERU Unid stn noted during aurora to 0400* with SS ancr (Behr) I'll add those
 6155 AUSTRIA CRF with EE nx and mx at 0100-0135 (Malco, Wicks) I skipped 'til out
 6165 SWEDEN RS fair in EE at 0030 (Srebnick) of room. FH
 6170 MOROCCO RTM under VENEZUELA R Mac at 0100 (Cwikla, Miller, Zilmer) What a square
 73-Fred Heutte, Jr. WA3QIA/WDX3FH 1600 Newton Street, N.E. Washington, D.C. 20018

- 6210 CHINA R Peking 2230-2245, 2309-2327* CC tx+mx (Wiseberg, Tuchscherer)
 6220 ENGLAND R Gemini 1030 EE IDs in the clear, 1035 pops (Martin-UK) (Martin-UK)
 6225 ENGLAND R. Apollo International 1100 EE pops, ID on a Sun, F, //9.5 not hd/
 6240 UNID (cf 6120) same station heard here 25 Feb. hd till 0840, vy strong;
 on 26 Feb. 0730 carrier on, 0740 stick drum IS played twice, carrier
 shifted to 6243 then off; not heard again on rechecks (Young) of Mar CB-2
- 6250 FERU R Cuzco 0000 modern IA mx, pops; not rare (Schnabel)
 6250 N KOREA KCBS 1240 KK HS, oriental orchls; G (Perry)
 6250 EQ GUINEA 2210-2230 SS mx+tx, Afr mx (Many) 0525-0630 Afr mx (Cwikla)
 6259 CHANNEL ISLANDS R Channel International 1105 EE, output given as 10w when
 hd, now it is 30w; commercial station (Martin) Presume new SWBC country
- 6276 ENGLAND R Lancashire 1115 EB ID+pops on a Sunday (Martin)
 6288 UNID 2240 man in As lang, Vietnam heard several times, 2252 Mao mx, 2256
 woman IDs; WRTH list Tay Bac on 6285 (Schnabel)
- 6320 UNITED STATES (presumed) *WCBU* 2057-2109 EE pops, freq given as 1580 (Barto)
 WCBU is FM station in Peoria, no other similar call is listed (Hauser)
- 6383 MONGOLIA R Ulan Bator t/i 1155 relay of Moscow Mong. svce at this time, //
 7100; Moscow relay is 1130-1200 per BBC MS (Bundy)
- 6400 CHINA Fukien Front 1150 CC tx; //3200, 3400. Harmonic? (Perry)
 6900 TURKEY V Meteorology *0453 past 0520 chants, weather fair and clear, quite
 a shock (Reeves) Clear weather shocks you?
- 6900 CHINA UNID 1015-1033 CC mx, CJKT ID in Cantonese but not // RF FS, P (Bundy)
 7038.2 N VIETNAM VoV FF 1830-1858*, //10040v (Bundy)
 7040/7080 N VIETNAM No longer hear FS hear, frequencies in use for FS have been
 drastically cut back from Dec/Jan when 6 freq were in // (Bundy)
- 7055NF CHINA R Peking FF to Eur+Afr on NF, ex-7060 (Bundy) 1840
 7065 IRAN Teheran HS 1411 //9022, 15084 (Bundy)
 7080NF CHINA R Peking 1125* in either Iao or Khmere (Bundy) credit item ✓ (Bundy)
 7085 UNID *1230-1300 Another pro-west VV station w/ EE pops, VV cutry, girls
 giggling betw dxt tones; //9715, but not //7460; on 8 Mar// 7460 1625-1803*
- 7094.6v PAKISTAN *1900 in EE, 1901 EE nx, unstable; 1945* (Bundy, Martin, Hagen)
 7102 N VIETNAM VoV *0900 VV HS // 10060, 3302 joins later, also 2200 no//a (Bundy)
 7108 THAILAND TTV 1055-1115 melancholy mx thru extreme 7110 splatter (Bundy.)
 7110 VOA site unknown *0100 EE Breakfast show thru CW QRM (Behr) Behr also rpt 7102
 7110 MALAYSIA RM KL 1108-1125 CC pgm but IDs in Malaysian over Moscow CC (Bundy)
 7115.8 UNID 1117-1115 monotonous oriental mx, unable to guess language, suspect
 Thailand (Bundy)
- 7125 GUINEA Conakry 0150-0335 FF, native mx (Nordstrom, Mayer)
 7130 TAIWAN WOPC 1140 Thai, oriental mx, // 17890; QRM on LSB by presumably RP
 RR svce on 7129, 1st time I've ever logged WOPC on this freq (Bundy)
- 7145 CHINA UNID CC HS 1330 mx+tx; //4800 which has been rptd as Shanghai (Behr)
 7170 NEW CALEDONIA f/i 0515-0650* EE pops&FF anmts //11710, 9510, 7170; 9510
 left on the air at 0650 however I think it leaves the air earlier (Bundy)
- 7170 GREECE VOA Kavala 2335 Jazz Hour, Two Kavala IDs at 2359 then s/off (Dexter)
 7187.5v CHINA Peking 1205 CC tx here //HS1 but not HS2 as it was formerly (Bundy)
 7190 UNID 1211 Subcontinental type mx; hd when Peking was off freq (Bundy)
 7205 ZAIRE Lumbumbashi 0500-0600 Afr mx+FF (Hagen)
 7215 GREECE NBI Avlis *2058 IS & anthem into Greek in QRM (Behr)
 7215 TAIWAN AFNK 1219 incredible signal over Brunei w/ DJ shooting the breeze in
 EE over Brunei, normally blocked by Brunei; pwr increase? (Bundy) doubt it
- 7215 BRUNEI RB Malaysian+CC tunes 1015 ID: "Brunei Kwangpo Tientai." (Bundy)
 7225 PHILIPPINES FEBC 1200 Exc w/ EE rx (Perry) (Bundy)
- 7240NF CHINA Peking HS1, another HS1 outlet, here 1212-1220; //7095, 7145 etc. /
 7246NF CHINA Peking HS1 apparently ex-7240; 1227 28 Feb, VIVN QRM (Bundy) (Bundy)
- 7258.3 MONGOLIA t/10933-1000t/o., relay RM Mong. svce; QRM USSR HS 7260, VOA 7255/
 7260 UNID Asian 1159 familiar IS, FE mx, anmts by man (Heutte)
 7265 W GERMANY Sudwestfunk 0515-0545 GG pops, good (Reeves) At 0331 on 5 March
 I taped the following ID: "Es ist jetzt 0431 am Morgen, Sender Freies
 Berlin" The half hour I listened consisted of light music, primarily vocal,
 and the time and station announcement (Schwartz) SWF list s/on 0355 per
 WRTH. SWF is in Baden-Baden w/ xmtrs in Rohrdorf, near the French border
- 7269 JAVA RRI Djakarta 1146 Indo tx, 1155 Djakarta ID, QRM USB de Kuching (Bundy)
 7270 SARAWAK RM Kuching YL w/ "warta Berita", 1158 ID "Inilah RM Kuching (Bundy)

- 7280 INDIA AIR Gauhati (presumed) 1125-1136 lang, 1130 lang nx, 1133 EE nx (Bundy)
- 7285 POLAND Warsaw 0345 Polish folk mx, QRM Moscow 0357 (Wicks)
- 7295 MALAYSIA RM Penang List 1110 EE nx relay fr/ KL; QRM Menado 7295.2 (Bundy)
- 7344.5 UNID 2118 traces of mx; never logged anything here before (Bundy)
- 7416 CLANDESTINE Lib R 1230 W HS, //10240; wonder if they are using a new name, after the "peace" agreement? (Behr) I rather doubt it
- 8637 UNID 1333 mideast like mx, but not sure of lang; Libya? (Bundy)
- 9020 IRAN Teheran HS 0445 Farsi tx, Iranian mx, G, WRTH List 9030 (Schnabel)
- 9365 CHINA RP 2045-2100* II to Europe; //9360 is weaker (Hagen)
- 9412 SPAIN RNE Madrid 0100 SS pgm on 5Mar; next day on 9360 (Behr) (Behr)
- 9492.5 PERU R Tacna 0330 LA mx, SS ads, ID; W, on this freq 20 yrs at least, rare/
- 9499v CLANDESTINE Bizim Radio *0600 IS&Turk pgm to 0630*, G (Behr)
- 9505 PHILIPPINES FEBC 1615 RR rx pgm, // 7225, F (Behr) for Mar LR Errol
- 9505 BRAZIL R Record 0830-0930 PP mx-annts (Urbelis) This could have been rptd/
- 9510 TAIWAN VOFC 1833-1845 EE "This is Free China Px" (Tuchscherer)
- 9515 N KOREA Pyongyang 1200 EE freq annt, EE nx (Zilmer)
- 9520 PERU R La Cronica 1145 LA mx (Zilmer)
- 9535 AUSTRALIA Shepparton VV, IS hrd 2227 til 2230* (Wicks)
- 9544 BRAZIL "R Universo" 0030 PP sports, many IDs for R Universo, G, New? (Behr)
- 9545 BRAZIL R Emis Paranaense 0000-0100 PP, football, ads, annts, mx (Urbelis)
- 9545 MEXICO LV de Vera Cruz 0145 Mexican mx, SS ads, gone 0200 (Behr)
- 9550 WINDWARD ISLANDS R Grenada 1730 EE, American+LA pops (Miller)
- 9555 CLANDESTINE Persian pgm *1445-1545* v, speeches&some mx; now stable, it was earlier 9553-9558. Any info? (Behr) 1455 poor, peaks 54 (Potter)
- 9570 NIGERIA RTV Kaduna 2205 Afr mx, small EE px 2210a, once s/off 2231 (Perry)
- 9570 QATAR QDS 2215 AA chants, tx (Zilmer) WRTH sked is apparently wrong Bob
- 9572.5 UNID LA stn here, but no time details in log-sorry (Bundy) Sparks, Zilmer, L-bk
- 9574v CHILE R Portales 2345-0500* SS tx, LA mx, drama, political annts (Wiseberg/
- 9575 P-N GUINEA R Central til 0532* nx in EE, Pidgin, Motu, musical interludes to s/off; ever logged stateside? does drift to 9574 (Bundy)
- 9576tv ETHIOPIA 1315-1429* a, local chants, M+W in lang (Reeves) (Behr)
- 9584 CLAND Bizim Radio *1640, *1740 TT, F; mx jammer on 9582, but always off freq
- 9585 Cf Feb LR, Young's rpt of Damascus is actually Paris in AA (Behr) tnx
- 9585NF S AFRICA 2215 EE to Eur; // 11900, 11970 (Behr) guess'tis a new freq
- 9590 CHILE R Pres Balmaceda 2340-past 0545 SS tx, mx, ads (Many) best bet for CE
- 9593.8 UNID seems SS 0923, QRM NSB9595, used LSB; 22442 (Bundy)
- 9595 BRAZIL R Cult de Bahia 0900-1000 PP mx, ads, annts (Urbelis)
- 9610 BRAZIL R Tupi 0830-0930 PP mx, ads, annts (Urbelis)
- 9615 INDIA AIR Delhi 1635 RR tx, 1640 Indian mx; //7105; new RR service (Bundy)
- 9620 BRAZIL R Nove de Julho 0030 PP tx+mx, USSR QRM (Zilmer) 0830-1010 (Urbelis)
- 9620 UAE VAE 1355-1405+ E, w/ AA tx, EE orchestral mx (Perry)
- 9631.3 GUINEA RDN 0500 Afr mx, //7125; 19 Feb only (Behr) (Behr)
- 9633.4t IRAQ R Baghdad 1345-1443* v in Afr lang, AA mx, often G; new Swahili svce/
- 9640 S KOREA 0940 JJ pgm, unlist WRTH this time (Bundy) 1200EE nx (Zilmer)
- 9645 INDIA AIR 1332-1335 EE HS, QRM USSR (Zilmer)
- 9645 BRAZIL R Cult Pocos de Caldas 0130 PP sports thru TIFC (Behr) 0300* (Urbelis)
- 9655 SYRIA Damascus EE to Eur *2100-2200* (many reporters!)
- 9665 BRAZIL R Mac 0100-0300 PP sports (football) (Urbelis, Zilmer)
- 9675 BRAZIL R Diario da Manha 0758*-1010+ PP mx, IDs, G (Odlin, Urbelis)
- 9680 S AFRICA SABC 1550-1622* EE pops, 1600 pips then EE nx (Tuchscherer)
- 9684 PERU R Continente de Arequipa 0330 SS ID, mx+ads (Behr)
- 9685 AUSTRIA 1856 IS, *1900 GG pgm // 11905, 17730 (Behr)
- 9690 ARGENTINA EE to NA 0300-0400, SS to NA 0400-0600 (Many reporters)
- 9695 BRAZIL R Rio Mar 2230 PP tx (Zilmer)
- 9705 BRAZIL R Maua 0030 PP sports under R Mexico QRM (Behr)
- 9715 MALAGASY REP R Ned 2133 EE Happy Station under Lopik, echo effect (Zilmer)
- 9720.7 PERU R Victoria 0330 SS tx + ID "Nueva R Victoria", G (Behr)
- 9730 ETHIOPIA ETFL 0330-0400 Swahili, 0400-0430 EE (Archard, Mayer, Hermann)
- 9745 BRAZIL R Cult de Sao Paulo 0230 orchestral mx, PP to 0305*, //6165 (Behr)
- 9745 IRAQ Baghdad *1930 EE to Eur, nx, cmtry, mx past 2000 (Estes)
- 9750 TAHITI t/i 0655-0700* just barely detectable under UNID, // 15170; FF at 0700 not Tahiti (Bundy)

- 9753v VENEZUELA 1200-1300 R Occidente 1200 SS nx then mx, 1300 ID (Behr, Zilmer)
 9756t PERU Unid 1200 IA mx, SS amnc, hrd irreg, ary-ideas?(Behr)This one has
 been heard here also, I believe that it may be the WRTH listed R Sideral
 9756 S VIETNAM VTVN 1000-1030 Khmerstx, 1030 into CC (Bundy)
 9769.8 INDONESIA Java, RRI Djakarta(t) seem II tx w/ mentions of Djakarta, extreme
 VOA-9770 QRM and RR lang stn after 0200 (Bundy)II=Indonesian, OK?
 9770 BRAZIL R Min Educacao 0044 symphonic mx (Miller)
 9805 EGYPT Cairo 2145-2300 EE to Eur (Many reporters)
 10022 CLANDESTINE SVN Lib Radio; Laotian pgm ending 1400 into FF; drifting up
 from 10010v&unstable, // 7470 (Bundy) (Bundy)
 10039 N VIETNAM VoV KK to 2157*, *2200 Indonesian, both at new time, no //s hd/
 1320 EE tx on cease fire 1330* (Martin)
 10060 N VIETNAM VoV VV HS here cf 3302, 7102 (Bundy)1112
 11630 Cf Feb LR- Bundy's USSR HS 0620 is Leningrad; used to have local IDs at
 0525&0540 (Behr)

A further decrease in the number of reports was noted this month. Contributors are advised to follow the guidelines that appear at the start of LR. When reports are not listed frequency-wise or do not have the contributor's last name after every item they are liable to end up in file 13 simply because of the large volume of reports that LR editors have to sift through every month. Likewise, most reports of stations broadcasting to NA(part. in EE) cannot be used because they are not of news value. For those interested in EE to NA, the new list of such broadcasts should be of interest. Watch HQ for info. It should also be pointed out that the Peking broadcasts on 7120 during the evenings here stateside are relay transmissions from Albania. Thank you for your continued support and interest in LR.

*****73s David Potter; **wonder what HQ will do with remaining 1/2 page, hi***

ORF - AUSTRIA

| FREQUENZPLAN | GMT | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
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| Europa | | | | | | | | | d | f | e | | | d | | | | | | d | e | f | | | | e | 6155-ND | |
| Europa Südost | | | | | | | | | d | f | e | | | 7245-ND | | | | | | | | | | | | | e | 9685-ND |
| Europa Süd | | | | | | | | | | | | | | d | | | | | | | | | | | | | | |
| Europa Südwest | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Europa West | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nordamerika | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nordamerika Ost | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mitteleuropa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Südamerika | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afrika Ost | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afrika Süd | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afrika West | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vorderer Orient | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Australien und Asien Südost | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asien Ost | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Legend: d f e s Deutsch/Französisch/Englisch/Spanisch Musik Ausgewählte Wort- und Musikprogramme

RADIO NEDERLAND offers a sheet of 20 seals promoting the WORLD DX FRIENDSHIP YEAR. The seals can be obtained free of charge by writing DX Juke Box, c/o Radio Nederland, P.O. Box 222, Hilversum, Holland.



- 11710 NEW CALEDONIA ORTF 0712, 0825 FF, tlk, pop mx, F (L. Marshall, Gendron)
 11710 AUSTRALIA RA 1230-1315 EE, nx, mailbag, //9580, G (Wiseberg, McCool)
 11710 ARGENTINA RAE 2300-2350* EE, nx, sched, cmtry, mx, off w/IS, P-G (Zilmer, Hafer, Cwikla, Ricchezza)
 11715 ALGERIA RTVA *0755-0915 AA, mx, //11965, P (Hagen, Wiseberg)
 11715 INDIA AIR 1730 AA, tlk by m&w, //11810, (Lisanti)
 11720 MALAGASY REP RN 0030-0150* EE, mailbag, r&r & c&w mx, ID, F-G (Zilmer, Machen, Miller, Mayer)
 11720 CHINA RP 0745-0815, 0830-0930* EE px, G (Hagen)
 11720 SWITZERLAND SBC 2115 EE, cmtry on nx, G (Archard)
 11720 BRAZIL R Nac de Brasilia 0930-1000 PP, tlk, mx, ID, QRM, P (Wiseberg)
 11720 GREECE NBI Athens 2204-0002, Greek nx, mx w/flute & bells till 2230, orch to 2357, then pops, amnts by W, QRM de RHC 11760, on past sched s/o, (Young)
 11725 SRI LANKA RC 0130-0140 EE, rel px, ID, QRM, off suddenly at 0140 on 2/15, P (Peters, Archard)
 11725 NETH ANT TWR 2100-2130 EE, rel px, E (Estes)
 11730 MALAGASY REP RN 1700-1820 EE, 2000-2100 FF, nx, pop mx, G (Machen, M. Marshall)
 11735 MOROCCO RTM 1500-1630, 2330 AA, chants, //9615, 15360, F (Zilmer, Lisanti)
 11740 MALAGASY REP RN 1400-1445 EE, Happy Sta, F (Miller, Zilmer)
 11745 IRAQ cf Feb LR-20, 1930 EE should be 9745? (Behr)
 11750 MALAYSIA BBC Tebrau 0934, 1130 EE, WS, F (Straus, Nordstrom)
 11750 JAPAN FEN 0400 EE, ID, sports px, one time only, F (Swatkoff)
 11755 ARGENTINA R El Mundo 0035 SS, LA mx, ads, ID, amnts, P (L. Marshall)
 11765 AUSTRALIA RA 0830-0900 EE, nx, tlk, F (Wiseberg)
 11770 NIGERIA VoN 1900-2000 EE, nx, Af mx, hrd under R Liberty jammer, (Hagen)
 11770 MEXICO R Mex 0315 SS, cmtry, //9705, 15125, G (Lucas)
 11780 N ZEALAND RNZ *0615-0700, 1800 EE, BBC nx, ID, mx, DX Wrld, F-G (Guarducci, Nordstrom, Peters, Nebron)
 11780 ARGENTINA R Belgrano 0031 SS, ID "LR2 R Argentina" nx, (Behr)
 11780 LIBERIA VoA cf Feb LR-20, 2 min VoA tx probably to stake claim to freq.
 11780 MOZAMBIQUE RCM 0456-0459 EE/PP, pop mx, ads, P-F (Nordstrom, Gendron)
 11785 BRAZIL R Guaiba 0025 PP, dance & pop mx, F-G (Zilmer, Lineback)
 11795 ZAIRE RZ 2347-0210 FF, local mx, //15245, P-G (Lisanti, Gendron, Mayer)
 11800 JAPAN NHK 2345-0045 EE, nx, cmtry, tlk abt Japan, E (Machen)
 11800 CANARY IS RNE 0000,0206 SS, mx, over NHK, F (Archard, Gendron)
 11805 BRAZIL R Globo 0040, 0148, 0230-0305 PP, pops, nx, tlk, ads, F-G (Zilmer, Gendron, Lineback)
 11810 ETHIOPIA ETLF *0530 EE, nx, cmtry, F (Nordstrom)
 11810 INDIA AIR 1330 EE, GOS, nx, cmtry, G but QRM (Duba)
 11815 NETH ANT TWR *0030-0102 EE, DX px, nx, G (Srebnick, Koziomkowski, Castello)
 11820 MOZAMBIQUE RCM 0415-0500 PP, pop mx, ID, ads, P (Lineback)
 11825 TAHITI R Tahiti *0300-0450 TT, ID, local mx, tlk, P-G (Srebnick, Robins, Pyatt, Nordstrom, Lucas, McCool)
 11835 SUDAN R Omdurman 0515 AA, chants, G (Mayer)
 11835 URUGUAY R El Espectador 0200-0225 SS, mx, ID, nx, f/o, P (Wiseberg); 0245-0300 SS, ID, tlk, heavy QRM, P (Lineback)
 11835 HAITI 4VEH 1255, 1640 EE, nx, ID, mx, rel mx, P-F (Kelleher, Koziomkowski, Archard)
 11840 AUSTRALIA RA 1810, 2100* EE, nx, Pac. svc, G (Guarducci, Robins)
 11840 JAPAN NHK 1900 EE, //9505, F (Swatkoff)
 11840 NETH ANT TWR 2200 FF, IS, EE ID, mx, rel px, E (Wiseberg)
 11850 USSR loc ? 0315-0328* RR/EE, VoYerevan px, mx, Armenian nx, (Tuchscherer)
 11855 BRAZIL R América 0020, 2345 PP, US pops, sports, F (Zilmer, Duba)
 11865 RWANDA DW Kigali *2300-2330, IS, local ID, nx in GG, cmtry, G (Srebnick, Wiseberg)
 11865 BRAZIL RC de Pernambuco 2230, 0300-0330 PP, tlk, mx, ads, F-G (Zilmer, Gendron, Lineback)
 11875 ANGOLA Em Oficial 1500 EE, nx, mx, tlk, 1545 FF, ID, (Behr)
 11880 ETHIOPIA ETLF 1900-2015 EE, rel px, nx, cmtry, QRM de Turkey, P-F (Mayer, Wiseberg, Zilmer)
 11880 TURKEY VoT *2200-2230 EE, nx, cmtry, local mx; 1900 AA; 2100-2130 GG, nx,

- cmtry, tourist contest, local mx, F-G (M. Marshall, Estes, Swatkoff, Swartz)
- 11880 ARGENTINA R Splendid 0100 SS, t1k, mx, ID, F (Behr)
- 11890 USSR RM 0400 AA, 0430 Swahili, 0445-0500* EE, probably Erevan (Behr)
- 11890 PHILIPPINES FEBC 0850-0930 EE, rel mx, nx, TC, ID, VP (Wood, Gendron)
- 11895NF NETH ANT TWR *0000 GG, IS, ID, TC, rel px, mx, t1k, G (Wiseberg)
- 11895 SENEGAL RS 2000-2300 FF, t1k, local mx, nx, P-G (Mayer, Wiseberg, Zilmer, Gendron, Lisanti)
- 11900 TUNISIA RTVT 1317 AA, mx, P (Gendron)
- 11905 THAILAND RT 1031 EE, nx by YW, //9654, G (Bundy-Truk)
- 11920 IVORY COAST RTVI 1909-2000 EE, 2235-0000* FF, t1k, local mx, s/o w/NA, F-G (Martin-Eu, Robins, Swatkoff, Mayer, Eichenhorn, Zilmer, Miller)
- 11925 SPAIN RNE 0111-0200, 0300-0345 EE, nx, mx, ID, G (Estes, McCool, Robins, Swatkoff)
- 11925 BRAZIL R Bandeirantes 2345, 0010, 0245, 0315 PP, t1k, TC, ID, sports, P-G (Mayer, Zilmer, Swatkoff, Lineback)
- 11935 S AFRICA SABC 0640 EE, DJ t1k, ads, G (Gendron)
- 11940 LIBERIA ELWA 1915-2101* EE, s/o w/IS, rel px, mx, F (Wawroski, Hafer, Lisanti)
- 11940 ROMANIA RB 1500 EE, nx, //9590 G, G (Mayer)
- 11940NF CHINA RP 0010 EE, nx, F (Eichenhorn)
- 11945 ISRAEL IBA 2205-2245 RR, nx, cmtry, //11960, G (Wiseberg)
- 11950NF MALAGASY REP RN 2120* DD, (Behr)
- 11950 BRAZIL R Min Educacão 0320, class mx, F (Lineback)
- 11955 SEYCHELLES FEBA 1700-1730, 1330 EE, rel px, AA at 1800, P-F (Ricchezza, Srebnick, Wood, Zilmer, Hafer)
- 11955 ETHIOPIA ETLF 1500-1510 EE, rel px, ID, G (Machen, Lisanti)
- 11960 ISRAEL IBA 2035 EE, //9625, 9009, (Behr)
- 11965 ALGERIA RTVA 1400-1600 AA, t1k, chants, (Lisanti)
- 11965 RWANDA DW Kigali 2030 GG, IS, ID, nx, F (Mayer). cf Feb LR this freq is Kigali-ed.
- 11965 BRAZIL R Record 2330, 0005, 0325 PP, t1k, sports, P-G (Duba, Zilmer)
- 11980 USSR RM 0015 CC, t1k, P (Wiseberg)
- 11980 CHINA RP *0400 CC, M&W t1k, EIR, F (Lineback)
- 11990 CZECH RP *1530, 1730 EE to Africa, nx, t1ks, F (Wiseberg, Guarducci)
- 11990 USSR HS Vladivostok rept Feb LR by Davis possibly Dushanbe (Behr)
- 12005 EGYPT RC 2130-2200 AA, chants, QRM, P-G (Estes, Wiseberg)
- 12015 CHINA RP 1030-1100 CC, mx, ID, t1ks, P (Wiseberg)
- 12045 USSR Tallinn 1340 Lang, ID, class mx, G (Lineback)
- 12055 CHINA RP 0100-0200 EE, nx, cmtry, mx, F-G (Archard, M. Marshall, Guarducci)
- 13250 VENEZ (Cland) R Euzkadi 1930-2000, 2030-2100, 2130-2200 SS, ID in EE, IS, pol cmtry, P-F (Mayer, Srebnick)
- 15060 CHINA RP 0000-0110 EE, nx, mx, t1k, P-G (McCool, Wiseberg, M. Marshall)
- 15084 IRAN RT 0530 Farsi, t1k by M&W, F (Swatkoff)
- 15105 BRAZIL R Rural 2050-0300 PP, mx, t1k, ID, P-G, sometimes under NHK, (Behr, Swatkoff, Duba, Wiseberg)
- 15105 N VIETNAM VoV, now using this freq most of day in FS, usually // 10040, (Bundy-Truk)
- 15110 N ZEALAND RNZ 0140, 0250, 0510-0530 EE, sports, play, rel px, mx, //17770, P-E (Srebnick, Swatkoff, Mayer, Ricchezza)
- 15115 ECUADOR HCJB 1445 EE, G (Srebnick)
- 15115 PORTUGAL RFE 2050-2138* Bulgarian (listed WRTH73), rock mx, F (Swatkoff)
- 15120 NIGERIA VoN 1650 EE, mx, t1k, ID, into AA 1700, G (Austin)
- 15120 FRANCE ORTF *1730-2035 FF, t1k, mx, IS, nx, P-E (Estes, Srebnick, Austin, Guarducci)
- 15120 VATICAN VR 1500-1510 EE, church nx, P (Zilmer, Lineback)
- 15125 TAIWAN VoFC 0209-0215 EE, t1k, mx, F-G (Robins, Austin)
- 15125 MEXICO R Mex 2300-0400 SS, LA & SS mx, ID, t1k, //9705, 11770, G (Austin, Lucas, Swatkoff)
- 15130 USA WNYW 1830 EE to Eu, rel px, F (Castello)
- 15145 BRAZIL R Journal do Comércio 0005 PP, pop mx, F (Duba)
- 15150 N KOREA Pyongyang 0115 SS, nx, cmtry, G (L. Marshall)
- 15155 BRAZIL R Dif de São Paulo 1930, 2300-0130, PP, pops, t1ks, ads,

- F (Wiseberg, Miller, Martin-Eu)
- 15160 AUSTRALIA RA 0415 EE, pop mx, ID, nx, P (Wicks)
- 15160 USA LV de la OEA (OAS) Greenville 0025 SS, ID, mx, G (Austin)
- 15162.5NF ISRAEL IBA 1700 Persian, 1730 Rumanian, 1800 Ladino, Moghreb, RR & Hung.
to 1900, //11945, 9785, 9009, (Behr)
- 15165 DENMARK RD *1600 EE ID then into Danish, IS, F (Lineback)
- 15170 TAHITI RT 1745-1752 EE, nx, wx, //11825, P-G (Mayer, Swatkoff, Castello, Austin); 0345 Tahitian, Poly. mx, tlk, G (Lucas)
- 15170 LIBERIA ELWA 2030-2300* EE, rel px, 2100-2300 AA, tlk, mx, ID, (Duba, Wiseberg, Webb, Swatkoff). Feb LR unid by Wells likely ELWA in AA-ed.
- 15175 NORWAY RN 1400, 1600-1630 EE, Norway this wk, G (Mayer, Zilmer)
- 15175 S AFRICA RSA 1900-1935 EE, nx, lbx px, G (Guarducci, Koziomkowski)
- 15180 USA VoA Greenville *2300 PP to Brazil, EE ID, tlks, nx, G(Wiseberg)
- 15180 USSR RM 0100 EE, nx, cmtry, mx, P (L. Marshall)
- 15185 FINLAND RF 1400, 1425 EE, various EE px, G (Mayer, Wicks, Wood)
- 15185 USA WINB 2045 EE, G (Robbins)
- 15190 CONGO RTVC LV de la Rev Congo *1702-1910 FF/Af lang, ID, mx, nx, F (Wiseberg, Robins, Tushscherer)
- 15190 INDIA AIR 1030 EE, GOS, mx, cmtry by YW, F (Robins)
- 15195 TURKEY VoT 2200-2230 EE, nx, mx, (Malko)
- 15210v AUSTRIA ORF 1800 FF, 2031 GG, tlk, mx, nx, F(Zilmer, Straus). Rept. as low as 15200.
- 15220 NETH ANT RN 2145-2200 DD to SA, nx, G (Kellehr, Fino)
- 15220 S AFRICA RSA 2250-2330 EE, mx, nx, G (Koziomkowski, Archard)
- 15235RF BELGIUM RTB 0045 EE, from 11870, (Zilmer)
- 15240 SWEDEN RS Karlsborg 1815 FF, 1829 EE, IS, ID, verie w/site, (Dexter)
- 15245 ZAIRE LV du Zaire 1930, 2245 FF, Af mx, tlk, F-G (Archard, Wiseberg)
- 15245 FRANCE ORTF 1830-1900 FF, pops, tlk, G (Fino)
- 15250 ROMANIA RB 1500 EE, nx, cmtry to Asia, P (Zilmer)
- 15260 VATICAN VR 1935 EE, nx, to Africa, P (Zilmer)
- 15260 ASCENSION IS BBC 2259-0035 EE, usual px, F-G (Koziomkowski, Fino, Wiseberg)
- 15265 BRAZIL R Excelsior 2240-0015 PP, EE/PP mx, sports, ID, //9585, (Behr, Reeves)
- 15270NF NETH ANT TWR 2140 NN, IS, //15320NF, (Reeves)
- 15280 USA KGEI 2245-0240 SS, mx, LL, rel px, P-G (Ricchezza, Srebnick, Wiseberg, Archard)
- 15285 CUBA RHC 2134 EE, mx, (Koziomkowski)
- 15300 ECUADOR HCJB 1900-2030 EE, 2300-0000 JJ, 0000-0030 PP, EE ID, rel px, G (Wiseberg, Fino)
- 15305 SWITZERLAND SBC 1530-1550 EE, nx, cmtry, to ME & Af, F-G (Cwikla, Zilmer)
- 15315 PORTUGAL RP 0100-0145 PP to Brazil, mx, tlks, nx, ID, P (Wiseberg)
- 15320 CANADA RCI 1900 EE to Af, (Castello)
- 15320 AUSTRALIA RA 0100 EE, 0430 FF, mx, tlk, F-G (Castello, Srebnick, Robins)
- 15325 CANADA RCI 1635-1815 EE, Polish, GG, nx, mx, G (Fino, Estes)
- 15330 ITALY RAI *1830-2005* II, nx, mx, ID, G (Fino)
- 15350 MALAGASY REP RN *2000 DD, G (Srebnick)
- 15350 NETH ANT TWR *2245 PP, rel px, (Castello)
- 15350 LUXEMBOURG R Lux 1600-1700 GG, ID, ads, pops, nx, under RN, (Behr)
- 15360 MOROCCO RIM 1700-1800 AA/FF, nx, ID, mx, chants //11735, P (Wiseberg)
- 15365 CANARY IS RNE 2000-2130 SS, pops, tlk, ID, sports, nx, G (Cwikla, Lineback)
- 15375 NETHERLANDS RN 1847, 2130 EE, ID, mx, E (Fino, Koziomkowski)
- 15375 ECUADOR HCJB 2300-2330 GG, tlk, E (Estes)
- 15380 RWANDA DW Kigali 2028-2130 GG, mx, tlk, G (Fino)
- 15385 NETH ANT RN *2300 SS, IS, F (Estes)
- 15390NF PORTUGAL RP 2130 PP, //15315, 11840, (Behr)
- 15405NF FRANCE ORTF 2030* FF to Africa, //15295, 11890, (Behr)
- 15410 RWANDA DW Kigali *2300, IS, GG nx, F (Estes)
- 15415 KUWAIT RK 1650-1744 EE, nx, wx, mx, P-G (Koziomkowski, Wood, Robins)
- 15435 TANZANIA RT 1825-1900 EE, ID, nx, Af mx, F-G (Austin, Cwikla)
- 15440 PHILIPPINES FEBC 1655-1730 EE, nx, (Malko)
- 15440 USA WNYW 1830 EE, ID, mx, E (Archard)
- 15445 JAPAN NHK *2345-0040 EE, nx, ID, F-G (Wood, Srebnick)
- 15445 LIBERIA VoA 2145 EE, F (Archard)

- 15445 BRAZIL R Nac Brasilia 0145 PP, tlks, mx, QRM, P (Wiseberg)
 15510 CHINA RP 0130 EE cmtry, Mao Chants, (Castello)
 15520 BANGLADESH RB 1230, 1545 EE, Hindi at 1600, local mx, ID, nx, F (Gendron, Martin-Eu)
- 15789.5 CLAND VoMalaysian Rev *0430-0634* CC, Malasian, Tamil, tlks, G (Bundy)
 16320 N KOREA R Pyongyang 0030 SS, ID, cmtry, F (Mayer)
 17725 JAPAN NHK 0055 JJ, IS, ID in EE, nx, G (Wicks)
 17735 CUBA RHC 1915 SS, nx, cmtry, mx, P (Castello)
 17740 S AFRICA RSA 1800 EE to Eu, //15175 (Behr)
 17750 SPAIN R Liberty 1730 IS, RR, F over jammer (Behr)
 17755 ECUADOR HCJB 2000 EE, class mx, E (Eichenhorn)
 17765 USA AFRTS Delano 2330 EE, nx, tlk, F (Wiseberg)
 17770 ITALY RAI *1702 II to Africa, G (Wood)
 17795 AUSTRALIA RA 2302, *0055-0259* EE, various px, //21740, F (Wood, Mayer, Ricchezza, Wiseberg, Nebron)
- 17795 GERMANY (DR) RBI 1815 EE to Africa, //15180, 15145, (Behr)
 17800.5NF ALGERIA RTVA 1600 AA, moved back to 17790 at 1715, (Behr)
 17810 NETH ANT RN 1810 AA, nx, ID, F (Eichenhorn)
 17815NF SWEDEN RS 1400 EE to ENA, replaces 21485, F (Zilmer)
 17815 BRAZIL R Cultura 2330 PP, mx, tlk, ID, class mx, F-G (Austin, Duba)
 17820 CANADA RCI 1700 Polish, 1855-1915* GG; No Svc. & Armed Forces Svc 1645 EE/FF, nx, cmtry, (McCool, Fino)
- 17825v ALGERIA RTVA 1645 FF, pops, varies to 17827, (Behr)
 17825NF NORWAY RN 1600-1800 EE, Norway this wk, QRM de Canada, P (Zilmer)
 17825 JAPAN NHK 0200-0215 EE, mx, G (Nebron)
 17827 PAKISTAN RP 0642-0645* FF, ID, IS, QRM de NHK, P (Bundy-Truk)
 17830 NETH ANT RN 1830 EE, tlk show, F (Eichenhorn)
 17830NF GERMANY (FR) DW 1400 GG to NA, //15245, 21540 (Behr)
 17840NF CZECH RP 1530 EE, nx, cmtry, mx, F (Zilmer)
 17845 USA WNYW 1702 EE, rel px, mx, G (McCool)
 17845NF ENGLAND BBC 1445 RR, //17740, 21530, 21680 (Behr)
 17880NF AUSTRIA ORF 1545-1600 GG to SEA/Australia, ID at 1550, nx, mx, G (Schwartz)
 17885NF S AFRICA RSA 1756-1850 GG, ID, nx, mx, //15155, G-E (Schwartz, Behr)
 17895 ZAMBIA RZ 1745-2000 EE, US pops, local mx, tlk, canned px, G (Mayer, Tuchscherer, Cwikla, Miller, Lineback)
- 17895 MALI Bamako 2123 FF, ID, Af mx, no RZ, (Reeves)
 17900NF? VATICAN VR 1712-1726 EE, 1726 FF, tik abt Vatican observatory, (Tuchscherer). Sure it wasn't 17800 as sched?-ed.
- 17935 BANGLADESH RB 1230-1300 EE, nx, (Malko)
 21485 SWEDEN RS *1400 EE, 1512 FF, nx, sports, DX px, now moved to 17815, G (Srebnick, Tuchscherer, Mayer)
- 21495 PORTUGAL RP 1405 EE, nx, G (Mayer)
 21505 SWEDEN RS 1402 EE, nx, ID, G (Wicks)
 21520NF SWITZERLAND SBC 1315-1345 EE, nx to FE & SEA, F (Zilmer)
 21525 USA WNYW 1935 EE, mx, G (McCool)
 21545 GHANA RG 1730-1745* PP (sched), mx, cmtry, P (Eichenhorn)
 21585 SWEDEN RS 1415 EE, mx, ID, (Koziomkowski)
 21610 GREECE NBI 1400 Greek, ID, nx, IS, mx, G (Martin-Eu)

Thanks to all those who supported Log Report this month. Lots of stations this month, but only a few rare or exciting loggings in this section. As usual I have cut some reports of VoA and other commonly heard stations to keep the top quarter within 4 pages. I hope no one is offended by this as it is necessary. I appreciate the corrections and notations several of you have sent me regarding past Log Reports. Africa has been good at this QTH with several loggings and QSLs the past month.

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OUR THANKS TO ALL WHO CONTRIBUTED TO THE LOG REPORT. YOU ARE THE PEOPLE WHO MAKE THE LOG REPORT THE STANDARD OF REFERENCE THAT IT IS!!!

DRAKE MODIFICATION - MAIN TUNING KNOB

NASWA members using Drake's SW#A having a standard main tuning knob: the company is now making a "spinner knob", that replaces the standard knob. It fits over your existing dial skirt, allowing rapid tuning up and down each band. The spinner knob contains a small plastic insert for the index finger. It is available for \$4.00, and though too expensive, pays dividends when tuning stations separated at far ends of the bands. I assume it also fits the SPR-4 and R-4B, if your receiver doesn't already have one. I recommend it: Write the R. L. DRAKE Co., 540 Richard St., Miamisburg, Ohio 45342. (Ed Insinger)

HCJB FREQUENCY CHANGE

HCJB has replaced 11860 by 11890 kHz to Europe at 2045-2200 GMT. (Direct)

POPULARITY POLL... As part of the 1973 WORLD DX FRIENDSHIP YEAR, the American SWL Club is sponsoring a Shortwave station Popularity Poll. Those participating should list their five favorite shortwave stations in order of preference. Participants should give their name and address, all on a postcard, and send to: Poll, c/o Woody Seymour, Box 6677 Reynolds Station, Winston Salem, NC 27109 USA.

RADIO MALDIVES TAPE Charles R. Fox, Jr., P.O. Box 165, Suffolk, Va. 23434, offers to send a very clear copy of R.Maldives identification and IS to anyone sending him a cassette with SASE with right postage. (This is a tape direct from R.Maldives... I've heard it. Is a studio tape. - DF)

THE DANISH SHORTWAVE CLUB INTERNATIONAL issues a monthly bulletin called SHORT WAVE NEWS. Dues are \$7.50 per year, with the bulletin sent by seemail. An extra \$3.75 if mailed airmail. Sample bulletins available upon request with 50 cents in coin or mint stamps to: Alan H. Roth, American Rep. DSWCI, 306 E. 89th St. 2A, New York, NY 10028

FLASHSHEET

The FLASHSHEET is published twice monthly by NASWA, Box 8452, S. Charleston, W. Va.

APRIL 1973

Freq: KCSTime: GMTAL NIBLACK, Editor, 420 Shelby St., Vincennes, Ind. 47591 DEADLINES: 15 & 26 Month
*****ALGERIA "V. of Palestine Revolution", 11715/11960/ 11965/15160, in AA prgm 1831-1930; 11960 is weak in QRM, but is not a spur. (Ernie Behr, Canada)AUSTRALIA DARWIN Relay, 15355, EE from 1800, fair to good lvl. (August Balbi, Cal.)AUSTRIA (FLASH) Schullungssender is on the air Monday-Friday 0900-1400. The power has been increased considerably, according to reliable sources, and a new freq has been tested since December at 1745-1900, 5915 kHz. (European DX Bulletin, via Rich-BANGLADESH 15455.5 T/1 1235-1300* RB, Dacca; news in EE in / ard A. Schwartz, Del)GOS at first, later jammer splatter. On March 17 at 1230 search, failed to locate dual sked 17730, but logged on 17735, per Dave Foster, Australia. (Bob Bundy, Truk)BELGIUM 9550 RTB has increased its EE prgm to 20 minutes; good until 0100*; new sked also shows 2255-2315 for, "Belgium Speaking", also on 15235. And, on Sundays at this time, has a multi-lingual prgm entitled, "International Sunday". (GlennBRAZIL 4905 0025, R. Relogio, TCS-PP ID, good lvl (A.E. Martin, Eng- / Hauser, Tex.)

land)...5025 Sung aguardante at 3/17, 0912, one flat chime, AST TO; two possibilities listed. (Glenn Hauser)...5035 At 0919, R. Anhanguera, Goias ads. (Glenn Hauser)

...15447 R. Nac. Brasilia heard after VOA S/off at 0000, fair lvl (Robert Zilmer, CHINA (PR) 3700 T/1 2015, R. Peking with Polish, ex 3800...4802 1537, / Wisc.)

Peking HSL, moved slightly, gives me a better shot at Hyderabad. Severe UTE QRM... 5005 T/in 1600, China Press Agency; YL with CC diction on new freq...5030 Tume in

1605, R. Peking, in EE (ex-Urdu per BBC MS)...6550 1133, R. Peking, YL with Cant talk, ID, //15270 et all, new freq, March 17...7425 T/in 1611, China Press Agency,on yet another new freq...7540 *1500, China Press Agency, "Int" ID, and CC diction on new freq, ex 7525...7935 T/in 1540, Peking HSL. Chinese music // new 7145...8754

At 1345, Peking HSL, native music //7095, 23422. (Credit all to Bob Bundy)...15520

Noted in SS 0300-0400, vy solid and clear lvl. Watch for RP with an EE xmission here between 0100-0200. (Hans Rakow, Canada)

COLOMBIA New Ecos de Puerto Martinez noted on 5568, 0200-0300, good lvl, with occasional aircraft QRM of short duration. All in SS. (John Tuchscherer, Wisc.)GREECE 11960, VOA Relay, Kavala, 1500 Estons., Latv., Czech, Lithuanian to 1730 S/off with ID. On 7170 to 0001 off with ID. (Ernie Behr)GUATEMALA 2940 The new station here S/off early on Monday GMT 0359, and Departamento was Santa Rosa, 3/19. (Glenn Hauser)INDIA AIR, New Delhi, 0215, EE cmtry, though poor sigs...11710 AIR, 2259, EE freq sked, then at 2300 news, // 9535. (Robert Zilmer)IRAN Today I logged R. Iran on 9028v, 2000-2030 EE news, mx, local prgm, on this day (Wed in Iran), being the last in their present calendar year. (Ed Insinger, N.J.)

...7065 T/in 1230, R. Teheran in Farsi (presumed) HE here // 15084. (Bob Bundy)

JAPAN 7140 NHK with S/on 1130, news, at well heard lvl. (Ed Shaw, Va.)KOREA (N) T/in 1653, KCRS presumed; Korean vocals. Believe this freq S/on at 1930 now. Good lvl March 9. (Bob Bundy)NEW CALEDONIA 7170 0602*, ORTF Noumea, with FF IDs and freq info at 0600; also 9510 left the air at 0602*. But // 11720 continued on. (Bob Bundy)MALAWI 7099.9 Tume in 1925, Lakeland Radio with EE Religious prgm to 1933 with EE IDs, then EE pope. New freq, ex-9760, 9550, 9510! (Bob Bundy) (So that's where this one has gone and went, Editor)...3380 MBC, Blantyre, at 0400 news and local native

music, at poor signal lvl, 3/18. (Bob Zilmer)

MALAYSIA 7110 RM in Chinese Svc, 1045, with Oriental flute music, man announcer, man amonr. Sounded more Burmese than Chinese. (Ed Shaw)MEXICO R. Mexico, XERMX, currently noted with freqs of 15385 // 9705, 11770, 15125, states Hans Rakow.PAKISTAN 11705 R. Pakistan (Islamabad?) observed at 0232 after R. Sweden S/off, in EE news, at poor lvl. (Robert Zilmer)...21590 Karachi in news at diction speed from 1330-1345. (Grady Ferguson, S. Car.)PHILIPPINES Voice of the Philippines, 9580, logged with strong signals on extended schedule to 1900, 3/20; Program Review 1600; Mailbag 1635; News 1500, 1610, more power. Parallels 11950 (not audible). (August Balbi)PLEASE TURN OVER

PHILIPPINES (Contd) FEBC, DZF2, Manila, new EE prgm on 11920, from 0900-1000, then into JJ. Heard regularly, fair lvl. (August Balbi)
RHODESIA RBC, Gwelo, at 0400, with a format of EE news, music, ads, though poor lvl. (Robert Zilmer) (3396)

SO AFRICA Radio RSA on new 9585, from 2215-2315, to USA and Canada in EE // 11970, 15155. This latter fgy replaces 15220, noted 3/17. (Robert Zilmer)

TAIWAN 9685 VOFB heard 1500 in CC, FF 1700, EE to 1900, on new fgy, replacing 9510. (August Balbi)

USSR 4940 R. Yakutsk, 1300 anncing Yakutsk time, "2200", local RR prgm to 1329, then Moscow Relay took over. (Ernie Behr)...4940 0907 Soviet HS in RR // 5015, but split at 0910. Yakutsk most likely listee, SINPO 33333. (Glenn Hauser)...4975 Dushambe, 0000 S/on, fading in and RR ID, man and woman announcers, then followed with news. UTE QRM. (A.E. Martin)...6100 RM with JJ talk as per sked, 0845, 3/17.

Vladivostok (RSPSR ASIATIC) listed. Mixes with YVTO. (Glenn Hauser)...9685 Radio Kiev (UKRAINE), noted at 0030 at excellent 55555, with news to 0035, musical interlude, station ID at 0036, then "Ukraine Today". S/off at 0200. Program in EE on Monday, Thursday, and Saturday in the 31 and 42 MB (9685 and 7240) (Charles R. Fox, ...7100 (actually 7105) Mrs. S QSLed RM's NA Svc at 2300, for me, / Jr., Va.) marking in the transmitter site as via Armavir. (AL Niblack, Indiana)

VIETNAM (N) 7105 (TENT) VOV, at 1030 S/on in VN Svc with man and woman announcers, at spectacular lvl! (Ed Shaw)...Hanoi heard irregularly on 15010v, at 1800, with 15 minutes of EE news. (August Balbi)...7735 T/in 1025, VOV; Viet HS ID at 1028; not // 7102, 10060. Apparently new fgy; ex-7760. (Bob Bundy)...10039v VOF Foreign Svc seems to have only two fgy's in svc at once now; usually this and 15104v are in //; for example, Indo 0930, EE 1000, Thai/Lao 1030, believe Cantonese 1100, and unknown at 1130. EE exmissions give a third fgy as 7030, but not traceable, 14th March. Also, EE at 1300, FF at 1330 // 15104, 17th March. On 9th March 10039v silent at 1430, while 15104 // 15012 operating. At 1500 only 15104 // 10039v heard in Indonesian 9th March. (Bob Bundy)...15012.3 T/in 1440, VOV, in Japanese with ID, "Hojiawa Hanoi" // 15104, seemingly used only for JJ transmission, 34544 (Bob Bundy)
VENEZUELA After seemingly being silent, Radio Exitos noted returned to the air, from 0405 tune till 0437 S/off, in SS, and national anthem, at very potent and easy listening lvl. (Corky Webb, Tex.) (3365)

WINDWARD IS 11928.5 Radio Grenada noted with sporting event, ads, TCs, from 2015-2025, on new fgy. (AL Niblack)

ZAMBIA 17895 Lusaka logged regularly since 24th Feb., and at 1800 noted in EE; at 2000, news in FF. S/off around 2200, lvl fair, though VOA QRM. Seems to change program format often. My QSL from Zambia came via air mail, all in proper form, for the new 17895 outlet. (Grady Ferguson) (Credit first item to August Balbi*)

CLANDESTINE 6200 T/in at 1140, V of Pathet Lao, theme music; 1142 Viet IDs. Maybe fgy will stabilize here. (good 17th March) (Bob Bundy)...6240 New Radio Libertacao, 2200 Afro music and talks, PP ID and unknown anthem to 2302 S/off. Is anti-PP. directed to Guinea-Bissau, heard on 15265 in February. (Ernie Behr)...6240 This one no strain lvl 2200-2302*. Music indicates W. African sender and suspect Afro lingo- no PP this date, says John Tuchscherer...A station was heard in EE on 7202, at 2158A tuning to 2215 tune out, with rock and roll, and pops. No IDs, or live annets, only a commercial for the U S Coast Guard; and, the Salvation Army. Strength was very good, audio was excellent, suggesting a near-by location, though production was sloppy. Logged March 17, not on following Sunday, will check again. Hexas hoping!! (Ken Swatoff, Canada) (Ken, let us know the developments, please, Editor)...*1100-1200* 7216 V of the Pat Mil Front; Viet prgm with IDs as before "peace" agreement. Continuation may indicate station is operated by SVN Govt? (Bob Bundy)

UNKNOWN Station with Afro music, 2200-2300 S/off, on 6140A. Who? (Gregory Danzker, N.Y.) (Vy probably Calabar, Nigeria, 6144, Editor)

FEBRUARY 1973: SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY. 3-5-73-1-7, 2-17, 3-22, 4-2, 5-41, 6-32, 7-34, 8-53, 9-60, 10-61, 11-59, 12-80, 13-83, 14-85, 15-74, 16-54, 17-36, 18-28, 19-18, 20-30, 21-31, 22-25, 23-33, 24-38, 25-48, 26-37, 27-36, 28-36 MEAN=42.1 APR-38, MAY-36, JUN-34, JUL-32, AUG-30 (Grady Ferguson)

PERRY FERRELL, GILFER ASSOCIATES INC, states: I just spotted that note about the 180A (see previous FS), and that item is untrue—there is NO schedule for the 180A Receivers at Hammarlund.

ACKNOWLEDGEMENT: Please keep the reports flowing—this sheet will be as good as you help me make it. Last minute reports to 882-3976, after 2200 GMT. 73, AL

FRENDX FOTOS

Edward C. SHAW
621 Burleigh Avenue
Norfolk, Va., USA 23505

Submit clear photos with DX biography to FRENDX FOTO EDITOR. No photos are returned

Member Henk Fung enjoys the DX hobby from his home in Paramaribo, Surinam, S. AM. He enjoys FRENDX each month and particularly wants to increase his South American total countries heard and verified. At present he has heard 40 and verified 14. Henk does not tell us what kind of receiver he uses.



Charles Wootten has an advantage over most of us because he has some electronics training to tune receivers as we see him doing here on his surplus SRR-13. Charles is stationed with the Navy in Europe where he no doubt is logging a good number of those catches not available in the states. In just nine months of DXing, he has logged 85 countries and verified 67 of them.

Mike Agner has his own DX club in Waldwick, N.J. where he is a high school student. He uses a Midland 11-500 and Gold Line antenna tuner. His antenna is a 100' inverted L. Favorite station is Zambia, but his favorite QSL comes from GRIF Paris. Total stations count is 82, and 62 different countries. He is a member of the BEC World Radio Club



Gerald D. Bayer is 14 yrs. old and started DXing late in 1971. He uses a Panasonic RF-5000A portable with a Mosely SWL-7 antenna. Total countries heard are 45, and he has acquire 25 QSLs. Besides NASWA, Gerald belongs to several Radio Station sponsored DX clubs. Gerald lives in LA.



Scott Ochiltree is a grad student at Princeton, and also works for the state of N.J. Scott has lived in Laos and Cameroun although he doesn't mention when or under what circumstances. He uses the Sony CRF-160 portable with a 30' longwire antenna. Here we find some of your contributions in future issues of FRENDX, Scott. A big welcome to NASWA!



Del W. Ford is no stranger to the hobby of DXing, having got the bug when he was younger. He has built his own SW receivers- though admittedly pretty crude two and three tube regenerative rigs. Del now has a DX-150 and an SX-190. He built a vertical antenna and tuner system and also practices CW for an Amateur Radio Operator's license. Del works for his local Board of Education in Scarborough, Ontario.



Gregg Kelley has been a NASWA member for several years. He is an Electronics Technician in Staunton, Va. Greg has done well with his Zenith portable. He has acquired 115 countries. Gregg also is interested in CB, coins, stamps, guns. He has been DXing over 9 years, and his favorite QSL is from Thailand. Other DX activities include TV-FM-VHF-BCB-LW.

Coming soon! Dan Ferguson at the receivers dials. Wanted- Pix of informal meetings of NASWA members, and pix of our foreign members. Send your pix and biography today.

Big 73 to all!

Ed Shaw

Return to:
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P.O. Box 8452
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West Virginia 25303
U. S. A.



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