

The **NASA** Journal

VOLUME XL NUMBER 10

OCTOBER 2000



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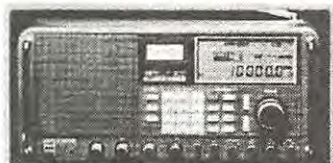


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This month's musings contain some interesting reading. **Pete Costello** offers a suggestion to generate a little friendly competition among log reporters each month. Let's hear from you about this idea. Also, former ANARC Executive Secretary **Al Reynolds** checks in with some interesting information after many years. Please check it out!

Australian member **Bob Padula** and his Electronic DX Press <edxp@bigpond.com> announced the availability two new shortwave listening guides, to be released in mid-November, for the international transmission period B-2000, October 28, 2000 to March 31, 2001. *The Australasian Shortwave Guide*, Edition Number 10, is 24 pages A4, which includes comprehensive information of shortwave transmissions in all languages beamed to Australia/Pacific, and for broadcasts in English to Asia, the Pacific, the Far East, Siberia, and the Indian subcontinent. Data arranged two sections—by order of studio country and program start time. Gives broadcast organizations, frequencies, start times, end times, languages, target areas, transmitter sites/countries, studio countries, broadcast days. *The Asia-Pacific Shortwave Guide*, Edition Number 2, is 28 pages A4. It features external service schedules in all languages of most countries in Asia, the Far East, the Pacific, and the Indian subcontinent. Nearly 5000 entries! Arranged in two sections—by Studio Country and by Frequency. Gives organizations, frequencies, start times, end times, languages, targets, transmitter sites/countries, relay sites, and days. Each publication is offered in print (hard copy) format, or electronically delivered via E-mail, or postal mailed on 3" diskette. Prices for each guide are A\$10—within Australia; A\$15/US\$10/10 IRCs—air-mail outside of Australia. The price is the same for the three methods of delivery.

Please specify the delivery option when ordering. Orders with payment should be sent to Bob Padula, 404 Mont Albert Rd, Surrey Hills, Victoria 3127, Australia. Payment may be in cash in any currency (to yield the amounts stated in Australian dollars), Check, Australian mint stamps, Money Order, International Bank Draft, or IRCs (one IRC=A\$1.50). (Checks MUST be in Australian dollars and payable on Australian banks)

Ed Evans, Station Manager at WSHB, forwards the station's new QSL cards for the millennium. One is a nice shot of a slewable 4x4 shortwave curtain antenna. The other is an antenna field at sunset. Both make nice editions to any QSL collection. Reports for transmissions from WSHB can be send to the station c/o Ed Evans, Route 2 Box 107A, Pineland, sc 29934.


The airwaves are burning up with shortwave broadcast activity so don't forget to report to your favorite columns each month. One handy way of taking care of one-stop shopping is to forward your material to our Distributing Editor is **Bob Montgomery** (P O Box 1458, Levittown, PA 19058) who can also be reached through e-mail at RMonty3@worldnet.att.net. All your regular contributions to the Journal can be submitted to Bob who will then forward the material (loggings, QSL items, schedules for LN etc.) to the appropriate editor. Remember, it is your responsibility to keep Bob busy otherwise he may roam the streets of Levittown. Can we let that happen?

I have not heard from any Internet capable members about **Walt Fair's** database of loggings from the Journal. The database is searchable by country or by frequency range and can be found from the NASWA home page at <<http://www.anarc.org/naswa/>>. Also,

has anyone been checking out the NASWebLog, a daily (more-or-less, particularly in the summer) set of links to other interesting web pages, with commentary added by our own production guru and webmaster **Ralph Brandi**. NASWebLog is available at <<http://www.anarc.org/naswa/weblog/>>. Please check these out and let us have some feedback from members about these projects.

Finally, with the DX season upon us don't forget to get your copy of the Danish Shortwave Club International's latest edition of the Domestic Broadcasting Survey ("DBS-2"), containing 44 A4 sized pages covering

all domestic shortwave radio broadcasting in the 2,200 to 22,000 kHz frequency range, for the upcoming DX season. Once again Anker Petersen has edited an outstanding hobby reference. It is available for US\$10.00 or 14 International Reply Coupons ("IRCS") for paper and it is available in a disc edition for US\$5.00 or 7 IRCS. Orders can be placed with DSWCI Treasurer Bent Nielsen Egekrogen 14, DK-3500 Vaerloese, Denmark.

That's it for this month. Enjoy this month's edition of the Journal; it's another good one. 

Musings

This column provides a forum where members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email: rdangelo3@aol.com.

Pete Costello <pec@superlink.net>

At the risk of being voted off the SWL island I am sending you this idea. I was thinking about this one late night DX session. What if the *NASWA Journal's* logging section(s) had a "Catch of The Month". A log judged by whomever/whoever to be a particularly different, interesting, unique, and difficult, whatever of all those entered that month. Maybe even cap it off with a "Catch of The Year" from all the monthly chosen ones. Maybe even add the yearly announcement to the Kulpville Fest event.

Anyway, thought I would pass it on and see what you think of the idea.

Richard A. D'Angelo <rdangelo3@aol.com>, 2216 Burkey Drive, Wyomissing, PA 19610

I think it is a great idea. Pete and I had a brief exchange on this concept described above. He asked me to contribute a "how it could work" scheme for consideration. Actually, I see it working quite simply. One "best" for tropical logs and one "best" for international logs. The editors, Sheryl and Wally, would be the sole judge using whatever criteria seems best to them. Of course, difficulty of log, new or rare station, etc should all be weighted but an editor would generally have a good feel for what is the "best" of the month. Once it goes beyond the editor, to a committee for example, it gets complicated. If the thing picks up interest, perhaps we can generate some sort of prize. It would be nice to launch by the beginning of the year. I really do like it!

What do other members think of this idea? 73-RAD

John Lyon, 2346 Dorothy Avenue, White Bear Lake, MN 55110

I've been helping a friend in another state to get started in short wave listening. After some discussions and research, he purchased a Sangean entry-level portable radio. He uses it with

the whip antenna, like probably most owners of entry-level radios. I started to wonder what one could hear with a radio like that.

Going on vacation at the end of August gave me an opportunity to play radio at a location with virtually no noise of any kind. I set out to do a little unfair radio comparison, comparing apples with oranges, just like they tell you not to do. My normal short wave radio is a Lowe HF 225, roughly equivalent these days, I would guess, to the Drake SW8. Obsolete, but vintage. The antenna was a 70-foot random wire—and I do mean random—snaked through some tree branches approximately 15 feet high on average.

Just for the heck of it, I sat down with the Lowe and a cup of designer tea (cinnamon-plum) at 4:30 PM local time, to tune the shortwave bands. Nothing special about the time; it just happened to be then. Starting with 7.1 MHz., and then 9.3, 11.5, 13.5, 15.0, 17.45 and 21.45 MHz., each band was tuned once from bottom to top. This wasn't contest style operating, but casual tuning of each band with the object of identifying as many countries heard as possible. If there was any question about the identification of a station, it was not counted. It took a little over an hour to tune the 7 bands, and 40 countries were heard. The propagation was average, and the only surprise was the signal strength of Yemen. It was S8 on my stingy meter, really banging in.

I remembered I had an old Sangean ATS-803A radio. (Yeah, all my equipment is vintage, but so am I). I pulled it out and plugged it in, and it still worked. The next afternoon, I again sat down to tune the bands at 4:30, but this time with the 803A. For one thing, it's awkward to tune manually. The scan mode skips all but the strongest signals, or hangs up on splatter or crud, and the manual tuning knob on the side leaves much to be desired. It was immediately apparent that this was not a fair comparison. The 803A was out of its league. The indoor whip antenna was inadequate at this time of day, and clipping the random wire onto the whip caused the front-end to overload and distort horribly. Besides, most people with an entry-level radio probably use just the whip for an antenna. Nothing outside of North America was heard. You could earn your Heard All Okeechobee Award, or hear all 14,269 frequencies used by Radio Marti, but that's about all.

I got to thinking that even though I do most of my listening during non-prime time hours, the typical entry-level listener probably listens at night, when signals are targeted to the United States. (When I went to Florida a couple of years ago, I couldn't believe how much stronger the evening EU signals were compared to back home.) Later the same day at 8 PM, I repeated the exercise with the 803A. Since 17 and 21 MHz. often aren't very active in the evening, I started with 5.9 MHz. this time. This exercise also took about an hour to tune the bands, and the result was 28 countries. Not too shabby for a radio that probably cost 25% of the price of the Lowe.

So what does this all mean? I haven't a clue, but it was an interesting exercise. The Lowe, to no surprise, excelled with the distant stations in Asia(12) and Africa(7), while the Sangean did well with more regional North America(6), South America(8), and Europe(8) stations. Perhaps it's somewhat like fishing. If you're after pan fish, most any equipment will do. But if you crave trophy fish, suitable equipment will make the job considerably easier. And some wire for an outside antenna.

One last thing. Recently, I ran across a topical book. If you are interested in the tortured history of Afghanistan and it's neighbors in the past decade or so, *Taliban* by Ahmed Rashid, Yale University, 2000, pp. 216, is the book to read. All of the major powers of the world come out looking rather pathetic with this adventure, but the book covers the action blow by blow from one who was there. I got it at my local library.

Allen H. Reynolds, WRAIR-Wash DC <Allen.Reynolds@NA.AMEDD.ARMY.MIL>

I was interested to note that the ITU and radio frequency allocations at a WARC are the background for a story in the November 2000 issue of *Analog Science Fiction and Fact*: Lerner, Edward M., "Dangling Conversations" pp 102-130.

Possibly you will wish to inform the folks out there of this item, which includes some technical details. Haven't finished reading the story yet, but thought I'd put the word out on the street.

I just grabbed a couple of e-mail addresses off the top of the pile, so forward on as seems appropriate.

Al Reynolds (Former ANARC Executive Secretary and long-time science fiction reader), Walter Reed Army Institute of Research

FRENDX: Twenty Five Years Ago....

After a decade of dedicated service to the club, Al Niblack stepped down as *Flashsheet* editor. Ralph Perry became the new editor of *DX Hotline*; the new name for the club's twice a month publication. *DXing According to NASWA*, prepared by Ed Shaw was at headquarters. It turned into a 124-page book. Ordering details were to be published in November. New NASWA membership certificates were available from headquarters. Don Jensen and Ralph Perry teamed up to create a new logo design for the front cover. *Frendx* carried ANARC convention photos thanks to Bill Whitacre. Twenty-four members participated in the 41-Meter Band Coordinated Monitoring Event arranged by Competition Chairman Dan Ferguson. Ed Shaw with 111 stations logged contributed the most with Doug Snyder (87), Gerry Dexter (72), R. C. Van Wyckhouse (70) and Glenn Hauser (66) rounding out the top five contributors.

FOR SALE: Customized beam headings (from/to) and distances (MI/KM) to more than 480 WRTH transmitter sites including new Russian republics. ITU Country Codes included. Send your location or coordinates. Price \$8.00. "Passport to World Band Radio" 1997, \$7.00. WRTH '97, \$10.00; '98, \$12.00; '99, \$16.00. Complete 1999 NASWA Journals, \$16.00. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, 389 Laurel Heights Lane, Tryon, NC 28782. E-mail <ADrehman@juno.com>. Phone (828) 894-3398. No collect calls, please.

Editor's Note

Please note, the *Easy Listening* and *Listeners' Notebook* columns do not appear in this issue due to time constraints. The editors of each assure us that they'll appear again next month.

Calendar Of Events

- Oct'00 Conference.** The annual **EDXC Conference** will be held 13-15 October 2000 at the Rancho Park Hotel, Castelldefels, Spain. All DXers, shortwave listeners, international broadcasters and other radio enthusiasts are cordially invited to attend. Castelldefels is located about 29 km south of Barcelona. Additional information is available from frubio@redestb.es or risto.vahakainu@helsinki.fi.
- Oct 20 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Oct 20 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>.
- Nov 10 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at mmeece@siscom.net. For additional information about MONIX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>
- Mar 9-10 Convention.** The 14th Annual Winter SWL Festival, sponsored by NASWA, will be held in Kulpsville, Pennsylvania (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike). Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!
- Mar '01 Contest. 2001 North American DX Championships.** For further information you can send a self-addressed stamped envelope to 2001 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Rules will also be posted eventually at <http://www.anarc.org/>, and are published in the Awards column in the Journal.
- Aug'01 Conference.** The annual **EDXC Conference** is scheduled to be held from 24-27 August 2001 in Budapest, Hungary. All DXers, shortwave listeners, international broadcasters and other radio enthusiasts are cordially invited to attend. Additional information is available from risto.vahakainu@helsinki.fi.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: rdangelo3@aol.com) or Ralph Brandi (Internet: ralph@brandi.org).

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Fred Kohlbrenner** (New address: 214 West Marshall Road, Lansdowne, PA 19050). He will forward them to the appropriate editor. Remember, Fred has now expanded his business to include QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: fkohl@ix.netcom.com.

NASWA

Visit our club home page on the World Wide Web at <http://www.anarc.org/naswa/>

Shortwave Center

Jerry Lineback • 506 South Lawrence Avenue • Scranton, KS 66537 • jalinebk@satelephone.com

Vietnam: A New Broadcasting Era!

By Bob Padula

Author's note: Much of the technical background for this story was gleaned from a three week trip to Asia in June 2000. The nine-day Vietnam sector commenced in Ho Chi Minh City, and concluded in Hanoi, and I travelled by mini-bus, ferry, car, taxi, cyclo, boat, aircraft, and on foot. The trip was an escorted tour undertaken with a small group of Australians, during the hottest period of the year, with daytime maximum temperatures around 40 degrees C, and evening temperatures falling only occasionally below 30 degrees. Humidity was extreme, running between 90 and 95% for most of the journey. Monitoring was carried out with the small Sangean ATS808A portable receiver, using 3 metres of antenna, from Ho Chi Minh City, Hoi An (near Da Nang), Hue, Ha Long Bay, and Hanoi. Additional monitoring was from Eastern Malaysia (Kota Kinabalu and Sandakan), and in Peninsular Malaysia (Langkawi Island, Kuala Lumpur). Times UTC.

Historical And Geographical Perspectives

The date of April 30, 1975, will long be remembered by many. It was on that day that Saigon fell, and some of us will recall the graphic TV images of Russian tanks forcing down the gates of the Presidential Palace, and of the last helicopters leaving from the roof of the US Embassy. That day marked the demise of South Vietnam and its government. General Duong Van Minh, South Vietnam's President for just 24 hours, surrendered to the Northern forces minutes later. In the quarter century since, Ho Chi Minh City has emerged from the ruins, and flourishes as the contemporary commercial capital of Vietnam.

The Presidential Palace has been preserved and maintained, known as the "Reunification Hall", and is now used mainly for ceremonial functions. I visited this building, and the basement contains the War Operations Rooms of Nguyen Van Thieu's (president from 1967-1975). The rooms have the original floor to ceiling maps and charts, showing in enormous detail the location of military assets and population distributions. Adjacent are other preserved offices, in which there is an astonishing collection of 1975 communications equipment on view: this includes rack-mounted HF transmitters, receivers, teleprinter facilities, telecommunications and telephone gear, switchboards, antenna couplers, and power supplies, just as it was during the regime.

The Socialist Republic of Vietnam is an S-shaped country, with Ho Chi Minh City at the south, and the capital, Hanoi to the north. Ho Chi Minh City is bordered by the Saigon River to the east and a flat plain stretching as far as Phnom Penh in Cambodia, 245 km to the west. About 100 km to the southwest is the Mekong Delta, one of the richest rice-growing areas of the world, where it widens as it enters the South China Sea. Vietnam's population is about 75 million, with some 3 million resident in Hanoi.

The country has about 1000 km of coastline, reaching to the southern border of China. It is only 100 km from Hanoi to the Chinese border, and a further 100 km to Nanning, the capital of Yunnan Province. Vietnam is bordered on the east and south by the Gulf of Tonkin and the South China Sea, on the southwest by the Gulf of Thailand, and on the west by Laos and Cambodia.

Vietnam is extremely ethnically diverse and complex, with the Vietnamese forming by far the largest group, comprising almost

90% of the population. There are some 54 ethnic groups throughout Vietnam, as well as the Viet Kieu—Vietnamese living abroad. It is believed that the Vietnamese peoples originate from immigrant groups from southern China. The Cham and Khmer minorities reflect Indian influence in the region. The Cham, whose language belongs to the Austronesian language family, formed the majority population in the indigenised kingdom of Champa in what is now central Vietnam from the second century to the late 15th century AD. Small numbers of Cham remain in the south-central coastal plain and in the Mekong delta near the Cambodian border.

The Khmer (Cambodians) whose language is one of the Mon-Khmer languages are scattered throughout the Mekong delta. Many other ethnic groups inhabit the highlands. Many of these "Highlanders" have links to other Southeast Asian groups such as the Rade (Rhade), Jarai, Chru, and Roglai speak Austronesian languages, linking them to the Cham, Malay, and Indonesian peoples. Others, such as the Bru, Pacoh, Katu, Cua, Hre, Rengao, Sedang, Bahnar, Mnong, Mang (Maa) and Stieng, speak Mon-Khmer languages, linking them to the Khmer. Some of the groups in the uplands of northern Vietnam have links to peoples in Thailand, Laos and southern China. The largest of these are the tribal Tai (Thai) groups (including the Nung and Tay) who speak Tai languages and generally live in upland valleys. Hmong (Miao or Meo) and Mien groups, who speak languages of the Sino-Tibetan language family, are scattered at higher altitudes.

The official language is Vietnamese, part of the Viet-Muong sub-branch of the Mon-Khmer (Austro-Asiatic) language family. It is a tonal monosyllabic language written with a Roman script with tonal markings, developed by Jesuit missionaries.

Vietnam has at various times been influenced by Confucianism, Taoism, and Mahayana Buddhism. These have been combined, "Vietnamised" and added to indigenous animist beliefs to form a Vietnamese

folk religions which is followed across all sectors of society. Traditional animist beliefs are still held by many tribal peoples.

The Vietnamese, as a distinct group, can trace their origins at least to about 200 BC, with the existence of the independent Kingdom of Nam Viet, which was later annexed by China.

The Chinese for some time occupied the areas of the Mekong delta. In 939 the Empire of Vietnam obtained independence, although it was still a tributary state of China. Originally the country was confined to the Red River delta area but expanded to include the Mekong delta, having absorbed the Chan Empire and part of the Khmer empire. At various times, the country fell under Chinese control.

By 1867 the French had conquered southern Vietnam and established the French colony of Cochinchina. After 1883, France took over Annam and Tonkin. The French controlled the areas a colony (1883-1939) and then as a possession (1939-1945). In 1887, the French Indo-Chinese Federation was formed, consisting of Cochinchina, and the French protectorates of Annam, Tonkin, Cambodia and Laos.

In 1940 the Japanese occupied the region and allowed the pro-Vichy French administration to govern until March 1845 when they installed a puppet regime under Bai Dai, the former emperor of Annam. In August 1945 communist and other nationalist groups under Ho Chi Minh took over Hanoi and Saigon and declared Vietnam's independence, as the so-called Democratic Republic of Vietnam, DRV. The DRV was recognised as a Free State within the French union. However, there was continued conflict between the French and the Vietnamese. Ho Chi Minh fled Hanoi in 1946 when French troops invaded. The French appointed Bao Dai as leader of a united Vietnam. This was resisted by Ho Chi Minh and his Viet Minh, who led a guerilla movement during the First Indochina War, which ended in a Vietnamese victory in 1954. Elections were to be held in

1956 to reunite the country, but South Vietnam declared itself a Republic in 1955, led by the anti-communist *Din Diem*.

Due to the authoritarian government there, southern based guerilla groups were formed and the Viet Cong was established with North Vietnam's support. The USA intervened to support the south and this resulted in the Vietnam War—Second Indochina War from 1955-1975. The American presence, in support of the south, reached a staggering 543,000 in early 1969.

Some 1 million hectares of land were laid waste by American bombings, by the use of defoliation agents, concentrated attacks by B52s, and napalm, in an attempt to eradicate the Viet Cong guerilla movement, which had set up an enormous network of tunnels and underground living areas across the country. Much of Saigon was totally destroyed.

A cease-fire agreement was signed in 1973, and the last American combat troops left Vietnam in 1973, and in April 1975, victorious NVA forces arrived in Saigon. In July 1976, the Socialist Republic of Vietnam was founded, and close to two million people fled Vietnam either by land through Cambodia or by sea as "the boat people" to escape the new regime's economic policies and reprisals.

In 1975, north Vietnam launched an invasion of South Vietnam that resulted in the collapse of the government and its replacement by an administration controlled by communists. On July 2, 1976, the two Vietnams were reunited as the Socialist Republic of Vietnam.

Following border skirmishes and the exodus of the Chinese from Cambodia, Vietnam invaded Cambodia in 1979 and installed its own regime. In response, Chinese troops briefly invaded Vietnam in the north. Following continued opposition Vietnam completed the withdrawal of its troops from Cambodia in 1989.

In the next decade Vietnam gradually introduced economic reforms in an effort to encourage Western investment.

Broadcasting Development

During the 1950's, HF external broadcasting from Saigon was via Radio France Asie, The Voice of France in the Far East, which was widely heard worldwide with programming in English and several other languages. Its operations were sanctioned by the Franco-Vietnamese Convention of 1949, which allowed it to broadcast on Vietnamese Territory. It closed down on February 27, 1956. From 1956 to 1975, broadcasting in the Republic of Vietnam was through the state-run VTVN, which maintained an extensive network of local, regional, and external broadcasting facilities.

In the same era, broadcasting from the north originated from Hanoi, which included external, local and provincial services.

Broadcasting Activity The government-operated broadcaster is Dai Tieng Noi Viet Nam (TNVN—Radio The Voice of Vietnam), part of the Vietnam Radio and TV Commission, and its origins can be traced back to August 1945, just before the declaration of independence in September of that year. Its studios and administration centre is in downtown Hanoi, at 58 Quan Su Street, operating from a nondescript building not far from the French Embassy.

TNVN has a number of MF, VHF, and HF stations, located in Hanoi and regional centres. The networks originating from Hanoi are:

Channel 1: Vietnamese, Khmer, H'mong, and Ede—news, current affairs and music, 18 hours daily, on MF, VHF and HF

Channel 2: Vietnamese, Khmer, H'mong and Ede, economic, cultural, social, literature, art, and educational programs, 18 hrs daily, MF and HF

Channel 3: Vietnamese, VHF only

Channel 4: H'mong Network. This service is part of the ethnic minority service, on HF only

Channel 5: English, French, Russian and Vietnamese, news and music for foreigners

in Vietnam. This operates on 105.5 MHz, from Ha Noi, Ho Chi Minh City, Hai Phong, and Vung Tau

Channel 6: This is the External Service, designated as the Voice of Vietnam International

Provincial Stations These are located in many centres, using MF, HF and VHF and their output includes relays of the National Networks from Hanoi, or locally produced programming.

Local Broadcasting on MF and VHF There is a progressive shift from MF to VHF. A number of main cities have coverage on MF and VHF of the National Networks 1 and 2, and some have their own Provincial services. Some transmitters are dedicated exclusively to either Network 1 or 2, others carry relays at various times, others have a mix of these networks. Most MF services are clustered towards the bottom end of the band, generally below 1000 kHz, and this arrangement was introduced in the 1960's, when many 50/100 kW MF transmitters were brought on line by the Republic of Vietnam Government. This was similar to the frequency distribution matrix which had been introduced for MF stations in the north.

Operation at the low frequency end of the MF band is no accident, being intentionally arranged to optimise long distance coverage during daylight hours. Frequencies used today by many existing stations are identical to channels in use back in the 1960s, taking into account the slight adjustments made as a result of Region 3 (Asia/Pacific) moving to 9 kHz channel separation in the late 1970's.

The MF and VHF bands are sparsely populated. There are no "private" or "commercial" stations authorised, and transmissions are limited to the National Networks 1 and 2, and Provincial services. In several places, broadcasts from neighbouring provinces are audible during local daytime on MF, and even on VHF, due to the relatively short propagation distances. MF transmissions from China, Laos, Cambodia, Taiwan, Philippines, and Singapore are also audible during the day,

for propagation distances of up to about 200 km. In Hanoi, only six VHF stations were audible. In Hoi An (near Da Bang) only two local MF stations were audible during the day, carrying the National Networks 1 and 2. In Ho Chi Minh City and Hanoi, five MF stations were available during the day at each locality. Vietnamese frequency planning provides for multiple transmitters on the same MF and VHF channels, at various towns and cities, carrying the same network.

From late afternoon and continuing throughout the evening, the MF band becomes a cacophony of sounds, with every channel occupied by at least one station, from virtually every country in Asia! As the evening progresses, and the terminator extends to the west, stations in Siberia, India, the Korean Peninsula, Pakistan, and the independent Central Asian republics become audible.

HF Relays There are five high powered HF transmitters on the air continuously from 2200-1600, using 5925, 5970, 6020, 7115 and 7210, carrying relays of the National and Provincial Networks. These transmitters, and their associated antennas, are believed to be relatively recent installations, as frequency stability, signal effectiveness, and modulation quality are assessed as very good. For many years, transmitters carrying relays of the Domestic Services had previously operated on a variety of out-of-band, oddball channels above 10 MHz such as 10044, 10068, 12035, 15012, 10225 and 10020, but those facilities have been diverted to jamming of the Vietnamese broadcasts emanating from Radio Free Asia. Frequencies in use for the presumed new facilities mentioned above are lower than what had been used in the past, to minimise "shadow" blockage caused by skip effects. It should be noted that Vietnam is about 1000 km from north to south, and day and night/day coverage across such relatively short distances is optimised by the use of frequencies below 10 MHz.

At least two of these transmitters are co-sited—6020 and 7210, as low level spurious radiations were noted on 6005/6035, and

7195/7225, corresponding to carrier ± 15 kHz. The spur on 6035 causes interference to the Vietnamese network of the Yunnan BS, at Kunming, during morning and evening periods.

Transmitter locations for these five outlets are not known. Based on monitoring observations from Vietnam and Malaysia, as well as from my home location in Melbourne, Australia, I believe that the general sites are as follows:

7210: south, likely near Ho Chi Minh City
7115: north, likely near Hanoi
6020: south, likely near Ho Chi Minh City
5925: north, likely near Hanoi
5970: south, likely near Ho Chi Minh city

7115 experiences annoying interference from co-channel Radio Thailand for the entire broadcast span, and also from the Voice of America, Iranawila, Sri Lanka, from *0100-0300* with its English service. That VOA transmission is actually beamed 334 degrees into the Middle East area, and has a very strong back lobe radiation signal to the south east, across Indonesia, and Indo-China. 7115 also is disturbed by co-channel All India Radio, at port Blair, during its afternoon service around 0700.

All five channels carry the National Network news from Hanoi at 2300-2315. Between 1200-1230, corresponding to 7pm local time, there are four separate programs, carrying the following services:

7210 Network 1
5970 Provincial Network
5925 Network 2
7115 Network 1
6020 Regional Network

The schedule for each outlet is complex, as each frequency is not dedicated permanently to a particular "Network". Obviously, there is some sort of overall plan, but I couldn't determine what it was, and it appeared to me that the actual network relayed was almost random, differing from hour to hour and day to day. It is understood that these five transmitters are intended for general reception, and also serve as HF in-

band feeders, for providing primary or secondary (back up) programming for MF and HF broadcasts to the Provincial stations in remote areas, many of which do not have direct transmission links to Hanoi.

H'mong Network This originates from Hanoi, and is available only on HF. It uses two frequencies, 6165 and 5035, signing on at 2200 for the morning service until 2300 close. There is also a midday service (0500-0600) and an evening release (1200-1330). H'mong is also known as Miao, and is spoken by some 4.5 million people in southern China, Vietnam, northern Laos, and Thailand.

Prior to reunification in 1976, the former Republic of South Vietnam broadcasting facilities were quite extensive, known as the Broadcasting System of Vietnam. The Republic actually extended quite some distance to the North, to at least 17 degrees N, which including the cities of Da Lat, Nha Trang, Hue, Da Nang, quin Hon, Ban Me Thuot, Can Tjo, and Quang Ngai. Several high power HF transmitters were sited near Ho Chi Minh City, of up to 200 kw, and the Voice of America operated its MF station from Hue, on 760 kHz. MF and VHF outlets in the South were taken over by the incoming communist controlled northern government in 1976, known as "Liberated Radio Ho Chi Minh City". The HF outlets from Ho Chi Minh City vanished after 1976, and were believed to have been destroyed. They formerly operated on such frequencies as 4877, 6165, 7175, 7245, 9620, and 9755.

As far as can be determined, the only local HF station operating from the area which was formerly the Republic of Vietnam is located in Gia Lai Province, which sits between the 13th and 14th parallels.

External Services It is believed that two principal HF sites are in use for External Broadcasting. The first is at Son Tay (with two 100 kw transmitters), located about 30 km NW of Hanoi. Son Tay is in Ha Tay Province, which borders the Hanoi region. The second site is at Mi Tri, about 5 km SW of Hanoi, with one 50 kw transmitter. TNNV advises that the total official HF transmitter

deployment is eleven, believed to comprise the three units used for External Broadcasts, five transmitters for the National Service relays, and two transmitters carrying the H'Mong Network, and one "spare". Only two transmitters are in use from the Son Tay site at any given time for the External Service broadcasts.

Available antennas at Son Tay are at 36, 57, 140, 177, 290 and 320 degrees. In recent years, the number of Vietnamese-based transmitters used for the External Service has been reduced, and reports suggest that these have been diverted for jamming of Radio Free Asia broadcasts. The number and location of these are unknown.

The Mi Tri site has the transmitter which operates on the single frequency of 7285, 50 kw, with an antenna azimuth of 216 degrees, and it's used for the external Service:

0000-0030 Cambodian
0030-0100 Lao
1100-1130 English
1130-1200 Thai
1200-1230 Cambodian
1230-1300 Lao
1300-1330 Russian
1330-1400 Cambodian
1400-1430 Lao
1430-1500 Cantonese
1500-1530 Mandarin

Of particular interest is that output on this frequency has recently been extended, and is now used for relaying National Network programming from Hanoi, when not engaged for the regular External Service. This is from 0100-1100 with relays of Networks 1 or 2. This is to augment national daytime coverage into the southern part of the country of the HF relays on 5925, 5970, 6020, 7115 and 7210. 7285 offered excellent reception during the daytime period throughout Vietnam and all of Malaysia. However, 7285 is also used by Radio Taipei International from 1200-1400 and by the Voice of Asia (Taiwan) 1000-1100.

The regular External Service outlets on 9730, 9840, 12020 and 13740 are regularly heard

worldwide, particularly over darkness, or partial-darkness transmission paths.

The following frequencies are in use from Son Tay for the designated External Service transmission blocks, for the international broadcast period which concludes on October 29, 2000:

9730 and 13740: 0000-0100, 1100-1130,
1300-1400, 1600-2130
9840 and 12020: 0830-1100, 1130-1300,
1400-1600, 2130-0000

English programming is broadcast at:

1000-1030 9840 12020
1230-1300 9840 12020
1330-1400 9730 13740
1600-1630 9730 13740
1800-1830 9730 13740
1900-1930 9730 13740
2030-2100 9730 13740
2330-0000 9840 12020

There is also a high powered MF transmitter operating on 1242 from Hanoi, between 0900 and 1700, and from 2200-0000, for External Services, carrying programming in Vietnamese, English, Indonesian, Cambodian, Thai, French, Cantonese, Mandarin, and Lao, with some of this output in parallel with the HF External Services.

External Service Relays The Voice of Vietnam uses relays in Canada (Sackville) and Russia (Serpukhov and Moscow) for reaching audiences in the Americas and Europe respectively. Until October 29, 2000, these relays are scheduled as follows:

9695 (via Sackville):
0100-0130 English
0130-0230 Vietnamese
0230-0300 English

9795 (via Sackville):
0300-0330 Spanish)
0330-0400 English
0400-0500 Vietnamese

12070 (via Serpukhov):
1700-1730 English
1730-1830 Vietnamese
1830-1900 French

12030 (via Serpukhov):
1900-1930 Russian
1930-2030 Vietnamese

7440 (via Moscow):
1900-1930 Russian

The complete External service schedule is available for viewing or downloading from:

<http://www.vov.org.vn/docs1/english/history/international.html>

Regional Transmitters This is where the story becomes complex! There is a handful of HF stations located in various provinces, mainly in the mountainous regions to the west and north of Hanoi, and one in the south, in Gia Lai Province. These HF outlets present interesting DX targets, as frequency and operating stability is not of a high order! Many of them have been in use for a great many years dating back to the early 1970's. These antiquated facilities carry relays of the National Networks, as well as local and regional programming. They tend to operate for limited periods of up to two hours, typically in the early mornings (commencing at 2200), at mid-mornings (from 0300), and early evening (from about 1000). As well as Vietnamese, languages heard include Lao, Thai, Khmer, and Korean. Relays of the National Networks from Hanoi are also broadcast over these facilities at various times. They do not appear to be official transmitters operated by *TNPN*. Stations known to be on the air are as follows:

4212 Lai Chau Province
4722 Gia Lai Province
4796 So'n La Province
5595 Lao Cai Province
6347 Yen Bai Province
6382 Lai Chau Province
6451 Thai Nguyen Province
6500 Cao Bang Province
6695 Lao Cai Province
7156 Ha Giang Province

Actual locations of these transmitters are not known, but identification announcements at the start of each broadcast usually give the name of the Province, and often the town or city. Accurate identification can be quite difficult, due to the similarity of some words to our Western ears. Note that many Provinces take the same name as the main town or city (such as S'On La, Lai Chau, Lao Cai, Ha Giang). An exception to this is Gia Lai Province, whose capital city is Play Ku.

Announcements usually are of the form: "Day la dai phat thanh...(station name)".

Operating frequencies of most of these transmitters vary from hour to hour, and from day to day, with fluctuations of up to 50 kHz! Some are not on the air each day, and broadcasting times are subject to constant change.

Reports of Vietnamese HF regional stations located in other Provinces appear from time to time in the hobby press, but often turn out to be drifting transmitters of existing stations, or broadcasters from other parts of Asia. There has never been any "official" information provided by the Vietnamese authorities on these HF operations, either pre-, or post-Reunification. The outlet believed to be in Gia Lai Province was first reported in the early 1980's.

It should be noted that not all broadcasts in Vietnamese in the 5 MHz band are from Vietnam! The Yunnan Broadcasting Station, at Nanning, transmits special external transmissions in Vietnamese on 6035 and 5035 at 2200-0130 and 1000-1300, which are often mis-identified as from Vietnam. China Radio International broadcasts in Vietnamese six times daily, at various times, using 5260 as a feeder frequency.

QSLs At present, the Voice of Vietnam responds readily to correct DX reports for its External Broadcasts, sending a copy of its latest External Service schedule with the QSL. QSLs from the Regional stations are extremely scarce; reception reports would need competency in spoken and written Vietnamese, and access to specific addresses.

Future Developments TVNV is continuing with an expansive plan to upgrade the state of radio broadcasting technology across the country. There is improvement to program production and transmission facilities, adoption of computerisation and digital technologies, moving towards implementing Digital Audio Broadcasting (DAB) within ten years.

In 1999, TVNV was concentrating its expansion plans on its program-production facilities. The broadcaster signed a contract with Studer to supply and install a complete radio broadcasting system for the new TVNV Broadcasting House. The new eight-story facility is located next to the existing broadcast centre in Hanoi. When complete, the new Broadcasting House will be fully DAB-ready.

Studer will install more than 200 workstations including 70 audio workstations running Dalet broadcasting software and 120 news terminals running Dalet TeamNews software. It will also be fitted with more than 10 broadcast consoles and a complex MADI channel matrix TDM routing system. The router network will provide a fibre-optic interface between the new and existing systems.

The new systems will enable TVNV reporters to create more programming as well as better quality programs. The digitisation of the Broadcasting House is part of a plan to make TVNV fully digital by 2010. The broadcaster plans to initiate a DAB pilot project in 2001.

This is not the first step TVNV has taken towards employing digital working methods. Already, the broadcaster produces a daily Web-based on-demand news service at: <http://www.vov.org.vn/> with updates in Vietnamese and English.

Currently, TVNV radio broadcasts reach 87% of the population, and 69% of the area. Its official transmission network is advised as consisting of 19 MF, 11 HF, and eight VHF transmitters. Programming is fed to the transmitters via a variety of methods, including cable, microwave, relay stations, and repeaters.

Future Of External Broadcasting I spoke with the Director of the Voice of Vietnam, who told me that there is a continuous review being undertaken of the cost effectiveness of the various leased relays currently in use, from facilities in Canada and Russia. New relays may be introduced, and some deleted, particularly for augmenting coverage into the Americas and Europe. The Internet is regarded as a prime means of distribution of information and entertainment to the global community outside of Vietnam, and is being strongly developed. No plans exist for upgrading or extending HF broadcasting facilities within Vietnam itself for external services.

Television Television Vietnam is a separate entity from TVNV. Currently, it operates three channels—VTV1, 2, and 3. In Hanoi, three other stations are available: HTV7, HTV9, and MMDS. Satellite channels include Discovery, ESPN, and Star Movies, and Australia TV.

Foreign language output may be viewed on these channels:

VTV1: English and French programming, including films and sports;

VTV2: English lessons and news, and French news

VTV3: sports and English features

HTV7: sports, cartoons, drama, and features in various languages, including English, Vietnamese

MMDS: includes Chinese and Japanese features.

Australia TV: this is satellite based, and is also designated as "C7". It is essentially the Australia Channel 7 Network, and includes slightly-delayed broadcasts of Australian Rules Football, Channel 7 News, Channel 7 soaps, and similar material. There is advertising for retail development opportunities in Melbourne, portraying this city as a wonderful place, with gardens, beaches, and mountains! It was interesting to sit back and watch AFL games live, without the frustration of commercial breaks after each goal is scored!

Conclusion

The Vietnamese Government, through TVNN, is strongly committed to modernising its national radio broadcasting infrastructure, and its technological development plans are to be commended. Australia is providing assistance, financial aid, and support in technology training, particularly for transmission planning/ installation/ and service operations, and state-of-the-art studio equipment is being progressively acquired and commissioned. Terrestrial external broadcasting may not be as extensive or visible as that of other Asian countries, but positive efforts are being made to develop, and maintain, a reasonable, strategic and modest presence globally through the mix of leased HF relays, Internet-delivered programming, and direct MF and HF transmissions.

Voice of Vietnam External Service Schedule: A00, Effective to October 29, 2000

0000 0030 7285 Cambodian Cambodia

0000 0100 9730 Vietnamese CAF

0000 0100 13740 Vietnamese CAF

0030 0100 7285 Lao Laos

0100 0130 9695 English ENAm (Sackville)

0130 0230 9695 Viet. ENAm (Sackville)

0230 0300 9695 English ENAm (Sackville)

0300 0330 9795 Spanish CAm (Sackville)

0330 0400 9795 English CAm (Sackville)

0400 0500 9795 Viet. WNAm (Sackville)

0830 0900 9840 Mandarin China

0830 0900 12020 Mandarin China

0930 1000 9840 Indonesian As

0930 1000 12020 Indonesian As

1000 1030 9840 English SEA

1000 1030 12020 English SEA

1030 1100 9840 Indonesian As

1030 1100 12020 Indonesian As

1100 1130 7285 English SEA

1100 1130 9730 Spanish CAm

1100 1130 13740 Spanish CAm

1130 1200 7285 Thai Thailand

1130 1200 9840 Russian Russia

1130 1200 12020 Russian Russia

1200 1230 7285 Cambodian Cambodia

1200 1230 9840 Japanese As

1200 1230 12020 Japanese As

1230 1300 7285 Lao Laos

1230 1300 9840 English SEA

1230 1300 12020 English SEA

1300 1330 7285 Russian SEA

1300 1330 9730 French Eu

1300 1330 13740 French Eu

1330 1400 7285 Cambodian Cambodia

1330 1400 9730 English Eu

1330 1400 13740 English Eu

1400 1430 7285 Lao Laos

1400 1430 9840 Japanese As

1400 1430 12020 Japanese As

1430 1500 7285 Cantonese As

1430 1500 9840 Indonesian As

1430 1500 12020 Indonesian As

1500 1530 7285 Mandarin SEA

1500 1530 9840 Thai Thailand

1500 1530 12020 Thai Thailand

1530 1600 9840 Cantonese As

1530 1600 12020 Cantonese As

1600 1630 9730 English Eu

1600 1630 13740 English Eu

1700 1800 9730 Vietnamese Eu

1700 1800 13740 Vietnamese Eu

1700 1730 12070 English Eu (Serpukhov)

1730 1830 7440 Vietnamese Eu (Moscow)

1730 1830 12070 Viet. Eu (Serpukhov)

1800 1830 9730 English Eu

1800 1830 13740 English Eu

1830 1900 9730 French Eu

1830 1900 12070 French Eu (Serpukhov)

1830 1900 13740 French Eu

1900 1930 9730 English Eu

1900 1930 13740 English Eu

1900 1930 12030 Russian Eu (Serpukhov)

1930 2000 9730 French Eu

1930 2000 13740 French Eu

1930 2030 12030 Viet. Eu (Serpukhov)

2000 2030 9730 Spanish CAF

2000 2030 13740 Spanish CAF

2030 2100 9730 English Eu

2030 2100 13740 English Eu

2100 2130 9730 French Eu

2100 2130 13740 French Eu

2130 2200 9840 Japanese As

2130 2200 12020 Japanese As

2200 2230 9840 Mandarin China

2200 2230 12020 Mandarin China

2230 2300 9840 Cantonese As


2230 2300 12020 Cantonese As

2300 2330 9840 Thai Thailand

2300 2330 12020 Thai Thailand

2330 0000 12020 English SEA

2330 0000 9840 English SEA

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Equipment Reviews

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Headphones

One accessory that most people would consider to be essential for shortwave listening is a pair of headphones. Headphones make it easier to understand those weak ID's and help to reject outside noise. Headphones come in two basic types: "open air" like those that usually come with Walkman-type devices and "closed" or circumaural, which completely surround the ear. Another categorization that is of value are "communications" versus high-fidelity—communications headphones have a restricted frequency response, whereas the hi-fi phones are just that—full frequency range. However, in my testing, even the communications headphones had a wide frequency response—none were restricted to the 300 Hertz to 3,000 Hertz range that is the bandwidth for voice communications.

Headphones made specifically for radio listening, especially the communications types, have become somewhat harder to find over the past decade. Most radio manufacturers offer at least one model of headphone, but most are pricey and today, nearly all are variations of Walkman type headphones. In my search for the "ultimate" headphones I have come across an excellent source for all types of 'phones at (usually) reasonable prices—eBay! In this review, I'll cover some of the headphones that can be found there. A lot of the units that will be encountered there are for aviation and will be listed as headsets, since they have a boom microphone attached to the headphones. Certainly, a headset can be used for listening only—just swing the mike out of the way.

One other specification that is encountered with headphones is impedance—usually low, 4 to 16 ohms or high, 600 ohms. Even older headphones are rated at 2000 ohms or above.

With most modern radios, either the 600 ohms or low impedance phones will work just fine. The 2000 ohm or higher headphones are most useful with crystal sets. Most of the communications type headsets are mono, so using them with a communications receiver is not a problem. Most newer radios will accept either stereo or mono headphones. Radio Shack has adapters for radios that won't accept stereo phones or to use a 1/4" plug with a 1/8" jack or vice versa. One new adapter from Radio Shack is a "spider"—it is a one foot long "X" cable with a 1/8" and 1/4" stereo plugs on one pair of legs and 1/8" and 1/4" stereo jacks on the opposite legs. It looks like it could be a useful accessory for anyone wishing to mix and match various headphones and radios. The catalog number is 42-2498 and it is priced at \$7.99.

Telex

Telex is a Minnesota based company that is still actively producing headphones for a variety of markets—aviation, professional intercom systems and education. They have made a variety of products that are of use to the SWL, although they appear to no longer be marketing to the radio hobby. Their current products can be found at: www.telex.com/index.htm.

Telex A610

The 610 headphones are almost ubiquitous. They were made for language lab use and are still in production, with a list price of just under \$14.00, for the model with a 1/4" plug. On the used market, they are very inexpensive and come in a variety of colors. The A610 was produced for the aviation market and are all black.

The 610's are very lightweight at eight ounces and are relatively comfortable, although the earpads are somewhat firm, since they are simply molded rubber without any foam padding. I measured their frequency response at 40 Hz to 10 kHz. They have a nice crisp sound and their lightweight makes them nice for extended listening sessions.

Telex 1210

The 1210's were also produced for the education market and are relatively common. They are slightly larger and heavier than the '610's but have padded earcushions which are very comfortable, although they can be a bit warm on hot days. I also like their sound and I measured their frequency response to be 60 Hz to 12 kHz.

Telex C-1320

The 1320 was made especially for communications and I remember them being advertised in the early 1970's. Their frequency response measured 80 Hz to 12 kHz. Unfortunately, I found them to be uncomfortable due to stiff earpads and the sound was not as good as the other Telex phones—it is hard to describe, but it seems to have some unusual resonances that make it seem that you're listening through tincans—yes, I know that the slang name for headphones is "cans"!

Telex HTW-2A

These are one of the most unusual headphones I've seen. I'll try to describe them, but they are best appreciated by viewing them at the Telex site, since they are still a current production model in the line of aviation headphones. They consist of a thin, tubular headband with one inch buds on either end. On the outside of the buds there is a ball and socket joint with tubular booms—at the end of the booms are eartips which go into the ear canal. The ball and socket arrangement allows for putting the eartips into the ear canal to reduce external noise or positioning the eartips just adja-

cent to the ear, in order to monitor the external environment.

They are extremely lightweight and very comfortable, although eyeglass frames can sometimes get in the way. They have a clear, crisp sound with my frequency response measurements being 80 Hz to 10 kHz. They do take some getting used to, both in terms of how they feel and how to best adjust the length and angle of the booms, but they are well worth trying and I've seen them go for very low prices on eBay. They may also be listed with a model number of CMM-2 which is actually the number for the cord.

Telex Procom 460

These are the headphone-only version of the Telex intercom headsets that you sometimes see in use at sporting events. They are the comfort leaders in the Telex line, since they have generously padded headband and earcushions. In addition, the ear cushions are covered with soft, stretch cloth. They have a very good sound (frequency range 50 Hz to 13 kHz). Unfortunately, they seem to be quite rare.

David Clark

This company has a very good reputation for rugged, high-quality headsets for the aviation market. Although most of their products include microphones, they have also produced headphones. Unfortunately, their products are expensive, even used, and I have not had a chance to use any. Their website is: www.davidclark.com.

Koss

The Koss corporation was one of the pioneers of stereo high-fidelity headphones. They have made a wide variety of headphones over the years, primarily for high-fidelity, rather than communications, applications. They can usually be found at reasonable prices, although some models appear to have achieved collector status. Their website www.koss.com has all their current products as well as a museum of past products.

Koss Pro-4AA

This venerable model has been a hi-fi standard for decades. They are somewhat heavy, but once in place are surprisingly comfortable and provide an excellent seal around the ears. Sometimes the ear seals have flattened over time, so this is a point to check with potential purchases. The Pro-4AA's I tested had a frequency response of 20 Hz to 14 kHz. Some argue that using hi-fi phones for shortwave can result in higher noise levels due to the wide frequency response. I used to subscribe to this theory, but have not found it to be a real problem—certainly such wide frequency, low distortion phones make stations that are in the clear sound great. The direct from Koss price is \$99.99.

Koss SPZ-9

Koss has recently begun producing passive noise reduction headphones for the scanner market. These models include the SPZ-9, QZ-99 and QZ5. The SPZ-9's that I have are comfortable, sound good and provide very good isolation from ambient noise. A nice feature that they have is a volume control mounted in one of the earcups. They had been sold in the past by Radio Shack (stock number 20-284) but are now discontinued there, although there was still a pair with a price of \$25 behind the counter on my recent trip to my neighborhood Radio Shack—so if you're interested you can have your local store check the database for the region and see if any stores have any of them left. They can be obtained directly from Koss for \$59.99 and do show up used. I measured their frequency response at 70 Hz to 12 kHz.

The Plug


The Plug is an earbud type of headphone—what's interesting about them is that the ear cushion is a very pliable foam that expands to fill the ear canal and reduce external

noise. They are quite comfortable and sound good, although perhaps a bit bass-heavy. They do exclude outside noise well. They have a four foot cord with a built-in mute button to momentarily shut off the audio signal. The cord terminates in a right angle 1/8" plug. My only complaint about them is that the cord is a bit on the short side, preventing me from leaning back in the chair at the radio desk. They sell for \$19.95 and can be obtained through the Koss website. Radio Shack is now selling their Optimus branded version of The Plug (catalog number 33-1167) for the same price, including a carry case and four extra ear cushions.

Japan Radio ST-3

This is a deluxe headphone with generously cushioned leather headband and ear cushions. They are very comfortable and relatively lightweight. On my testing, their frequency response was 45 Hz to 11 kHz. My only complaint about them is that the cord is thick and stiff. They are also somewhat pricey, with a street price in the range of \$70.00, although I do see them listed occasionally on eBay or rec.radio.shortwave.

Conclusion

If you haven't tried listening to shortwave radio with headphones, definitely give it a try with whatever type of headphones that you have handy. You may even prefer the open-style headphones due to their very light weight, especially if your radio is in a low noise environment. If you want to try headphones that seal out ambient noise, hopefully this guide will be helpful in making your choice. If you look on eBay, it may be helpful to search completed auctions for the headphone you're interested in to get an idea of the range of prices that people have paid—if the price goes too high, wait until another set is listed. Good listening! 

Country List Committee Report

Don Jensen • 5204 70th Street • Kenosha, WI 53142 • dnjkenosha@acronet.net

In a time when—it seems—there are relatively few opportunities for DXers to add to their tally of Countries Heard, along comes the U.S. Navy with an expanded initiative to transmit American Forces Network programming on shortwave frequencies. This should give listeners new ways to hear such DXing targets as Iceland and Sicily. That, indeed, is good news!

Previously, the Navy's AFN transmissions from Puerto Rico led to the Country List Committee's decision to add that to the NASWA list. Equally exciting to country hunting DXers should be the information appearing on official websites that these AFN relays now also will include transmissions from USN facilities on Diego Garcia, the major island of the British Indian Ocean Territory.

At this writing, a decision on adding BIOT to the list as a new radio country is awaiting confirmation that the Web-announced transmissions from Diego Garcia have actually occurred. Hopefully that confirmation will be forthcoming shortly.

On another matter, a question has been raised in the *Journal* about the status of Transkei, one of 10 so-called Black Homelands established by the Republic of South Africa in the 1970s. This was a matter requiring the attention of the CLC because for some years, a widely-heard SWBC station known as Capital Radio, understood to be broadcasting from Transkei, was active variously on the 75 and 41 meter bands.

In 1980, and again in 1987, the Country List Committee considered whether to add as NASWA "radio countries," one or several of the four Homeland regions (Transkei, Bothuthatswana, Venda and Ciskei) which South Africa declared to be independent.


The committee at that time concluded that these Homelands would not be added to NASWA's Country List.

The committee based its decision on the fact that these lands within the boundaries of South Africa did not truly function as independent countries as they claimed to be. The committee was not alone in this evaluation. Apart from the Republic of South Africa, virtually no other government in the world recognized these Black Homelands as independent nations.

For these reasons, Transkei cannot be counted as a separate radio country.

At the time, the committee's decision was applauded by some members as signaling a rejection of apartheid. Others criticized it as motivated by a sense of the "political correctness" of the time. In fact, the committee attempted to keep the issue of apartheid out of its deliberations, so the decision warranted neither that approval nor disapproval.

As a postscript, it should be noted that in April 1994, an interim constitution took effect in South Africa, following its first multi-racial election. Under that interim constitution, the 10 Black Homelands, including the four so-called independents, were dissolved and reincorporated into the Republic of South Africa.

Any other questions about the country list and its use may be directed to Don Jensen, Chairman, NASWA Country List Committee, 5204 70th Street, Kenosha, WI 53142, or via email, to <dnjkenosha@netwurx.net>. 

Pirate Radio Report

Chris Lobdell • P.O. Box 146 • Stoneham, MA 02180-0146 • clobdell@mediaone.net

Hi and welcome of the October issue of the *Pirate Radio Report*. It's only a few weeks to what has traditionally been one of the biggest pirate holidays, Halloween.

What will this year's holiday be like? Be sure in send in those spooky logs to us here!

Peruvian Pirate?

If you've been tuning the usual pirate frequency of 6955 kHz during the weekend evenings and hearing a Spanish station playing Peruvian folk music, chances are you've logged **Radio La Voz de Campesino** a station located in the town of Huarmaca. They usually sign off between 0200-0230 UTC. If they're **ORM**ing the frequency, try 6950 or 6955 kHz instead.

Loggings...

Many thanks to the following for sending in loggings! Ralph Brandi-NJ, Ross Comeau-MA, Dave Hodgson-TN, Lee Silvi-OH, Bill Wilkins-MO and George Zeller-OH.

CELL a station that plays portions of actual cellular phone calls taken off the air was heard on 6.950 AM on September 4th at 0229-0238 UTC. Music "I AM The Walrus", Ma Bell herself giving **CELL** permission to use frequency, and recording of a couple having phone sex. Off abruptly at 0238. [Comeau-MA]

Jolly Roger Radio, an Irish based Europirate was heard on 6238.58 kHz on September 10th at 0305 UTC with old-timey country music, male DJ, gave e-mail address at end of his program (seemed to match one on the JRRR web site), into pop, rock and dance music program opening with "Sultans of Swing" by Dire Straits and closing with "Love is a Battlefield" by Pat Benatar, "less talk and more music" promo, "this is rock 'n' roll radio" stinger from Ramones album; tons of

static making it difficult to ID, but three or four definite IDs @ 0534. Station operator Joe Vincent says (via e-mail) the station runs 160 watts into a dipole about 20 feet up, and that when this transmitter is up, they also have another transmitter running 50 watts relaying Laser Hot Hits on 6395. [Brandi-NJ]

KIPM, heard on 6950 kHz USB from 0200 to 0447 UTC on August 5th with the usual cerebral discussions. Heard again on August 6th at 0218 UTC and again on August 27th at 0336 UTC on 6955 kHz. [Wilkins-MO]

Radio Free Speech, noted on 6955 kHz, on September 17th at 1305-1328 UTC, with a repeat of a great RFS program including the *Trucker's Tabernacle* of Norfolk, Virginia. Gave the old Wellsville drop. [Silvi-OH]

Radio Metallica Worldwide was heard on August 19th at 0243 UTC with rock music, IDs and echo effects. [Wilkins-MO]

WHYP heard on 6955 USB at 1403-1415* UTC in September 9th. Program of rock w/plenty of James Brownyard noises and the temperatures for Lake Erie cities. Gave usual addr of whyp1530@yahoo.com, which is good as they replied to my e-mail. [Zeller-OH]

The Voice Of Shortwave Radio was logged on 6240 kHz at 0212 sign on until 0228 sign off. 0212. They announced the Box 109, Blue Ridge Summit, PA 17214 maildrop. The theme to Dragnet was played and a Garrison Keillor program followed. Station ID/address was given at 0225 just before sign off. [Dave Hodgson-TN]

That wraps up this edition of the *Pirate Radio Report*. Be sure to send in your loggings for next month!

Happy Pirate DX!

-Chris



QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010



ANDAMAN ISLANDS: All India Radio 4760 via Port Blair f/d "Jami Mosque" cd. in 154 ds. for ms. v/s A.K. Bhatnagar, Director of Frequency Assignments. My report was sent to the site but the QSL came from New Delhi. (Davis-NM).

ASIATIC RUSSIA: Voice of Russia 17690 via Petropavlovsk-Kamchatsky f/d cd. w/ personal ltr. in 50 ds. for 2 IRCs. v/s Olga Troshina. (Willshaw-NC).

AUSTRALIA: Radio Australia 11650 via Shepparton f/d "ABC Southbank Centre" cd. in 4 mo. w/ schedule. (Barto-CT).

CANADA: CHU 3330 f/d "Sir Sanford Fleming" cd. w/ station brochure in 1 mo. This was for a reception spanning 12/31 to 01/00. (Barto-CT). Radio Canada International 9640 via Sackville f/d cd. in 7 wks. w/ a white and blue RCI

plastic pennant. Also rcvd. an autographed folder cd from the station personalities. (Barto-CT). 13690

f/d blue "RCI Logo" cd. w/ schedule and station pennant in 2 mo. (Barto).

CUBA: China Radio International 5990 p/d cd. w/ postcard in 28 ds. v/s Ying Lian. New Addr: CRI, PO Box 4216, CRI-2, Beijing, China 100040. (Willshaw-NC).

ENGLAND: Radio Japan 7230 via Woofferton "Seasons" cd. w/ schedule in 2 mo. (Field-MI). Voice of America 11820 via Woofferton f/d "White House in Winter" cd. in 35 ds. (Willshaw-NC).

GABON: Africa Number One 15475 via May-obi p/d ltr. w/ "Trophee L'Ebene Africa No. Un" folder cd. in 59 ds. for a FR rpt., tape and ms. v/s Chartrin Ondamba. (Willshaw-NC).

GERMANY: Bayerischer Rundfunk 6085 via Ismaning f/d "Antenna Array" cd.

广播收听证

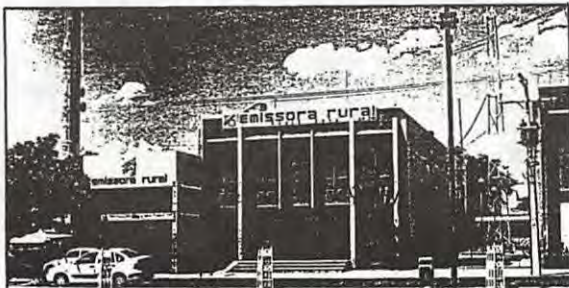
George L. Barto 听友: G/L/Barto

我可收到您关于1999年12月16日的广播收听报告, 频率4940 KHz, 本地时间13:10-13:21 (北京时间) 符合我公司节目内容。希望您继续关注我公司的广播情况。(我公司短波广播频率有: 4940KHz, 6185KHz, 4830KHz, 11590KHz.)

特此证明



2000年1月4日



w/ station schedule, magazine, cancelled stamps and more in 18 ds. for a taped rpt. (Willshaw-NC). Voice of America 15455 via Holzkirchen f/d "Waikiki Beach, Hawaii" cd. in 105 ds. (Davis-NM). Swiss Radio International 6165 via Wertachtal f/d cd. in Italian in 1 mo.

PROZAC

fluoxetine hydrochloride

You have received The Voice Of

Prozac
Date: 5/1/00

Time: 1923 - 1946 UTC

Freq: 6955

Mode: A.M.

Power: 10 watts

Station Op: Dee Pressed

D.J.: Dr. Sarah Tonin

*John, Thanks for tuning
in on the show.
I try to find new music
to play from MP3 AND
CD. Hope you liked it
look for more power soon
Dee
Pressed*

unopened but contained the statement "Non-Reclame" and "Retour a L' Envoyeur". He used the B.P. 1202 address. Two of the 5 were sent via registered mail! Even phone calls and letters to their embassy in DC produced no results. Adie feels that for some reason he and Marlin and quite possibly other Americans are somehow being boycotted by the station. Other DXers are obviously getting there reports to the station. Adie thinks it may be the GA flag. If thats the case maybe they should boycott the Arabs. They were involved in the trade a long time before it hit our shores...Sam.

cd. in 30 ds. for a SP rpt., tape and \$3.00. v/s Israel Rodas. Also rcvd. station history. (Willshaw-NC).

HOLLAND: Radio Nederland 13700 via **Flevo** f/d "Sheep Pen on Blaricum Heather" cd. w/ schedule and newsltr. in 74 ds. (Willshaw-NC).....

I rcvd. the same QSL w/ an ad for Dutch leather hip boots....Sam.
IRAN: Voice of the Islamic Republic of Iran 9835 n/d "No. 2 Khaneh-ye Borujerdi House" cd. w/ stickers, 3 magazines, report forms, form ltr. and a personal note in 74 ds. for 1 IRC and a taped rpt. (Willshaw-NC).

KOREA, REPUBLIC OF: Radio Korea International 15575 p/d "King Taejo Series" cd. in 33 ds. for a taped rpt. and 1 IRC. Also rcvd. report form, schedule and a station newsltr. (Willshaw).

MALAGASY REPUBLIC: Radio Nederland 17580 via **Talata-Volondry** f/d "Oatfield in the Naardereng" cd. and "1937 Rotatable Curtain

v/s Esther Niedhammer. (Bar-to-CT).

GREECE: Voice of America 9530 f/d "Liberty Bell" cd. in 35 ds. (Willshaw-NC).

GUAM: KSDA Adventist World Radio 11560 via **Agat** f/d "Buckingham Palace" cd. in 88 ds. w/ stickers, station pennant, calendar, report forms and station schedule. I sent the station \$2.00 (Willshaw-NC).

GUATEMALA: TGMI Radio Buenas Nuevas 4800 f/d "Guatemala Coat of Arms"

NOTES: Adie Durden says that he has had the same problem as Marlin Field did with Radio Madagasikara reports being returned by the PO a year after posting it. Since 1995 Adie has sent 5 reports to the station - all were returned by the PO. They all had the Antananarivo PO seal - so it got to its destination. All reports were



Radio Jordan 27/10/99

JEFF A. MOLANDER.....
5808 SQUIRIA WAY.....
ELK GROVE, CA, U.S.A.....

Radio Jordan has the pleasure to verify your reception report dated 5/12/98 on the frequency of 11630 KHz at 17:04 UTC (GMT) in the ENGLISH language. The details mentioned in your report have been checked and found correct.

Thank you for listening in to our broadcasts. Best regards from Radio Jordan.

Sincerely
AMAD ZADA
Director

Mr. Ronald Howard
18632 Walkers Choice
Galthersburg, Maryland 20760

Array" cd. in 43 ds. (Willshaw).
MOROCCO: Voice of America 17895 f/d
"Hawaii" cd. in 6 wks. (Barto-CT).

NORWAY: Radio Danmark 11635 via **Sveio**

"Danish National Anthem Painting"
cd. w/ schedule, stickers and a
personal note in 13 ds. for a taped
rpt. and \$1.00. (Willshaw).

PORTUGAL: Radio Portugal 15295 p/d

"Mundo Dito Oil Painting" cd. in
28 ds. for 1 IRC, PT rpt. and a
taped rpt. (Willshaw-NC).

SAO TOME: Voice of America 11975 f/d

"Hawaii" cd. in 6 wks. w/ sched-
ule. (Barto-CT).

SPAIN: Radio Espana Exterior 6055 p/d

blue "REE Logo" cd. in 38 ds. w/
report forms and schedule. (Willshaw).

RI LANKA: Radio Free Asia 13725 f/d 1tr.

w/o site in 2 mo. w/ new schedule and
station sticker. (Barto-CT).

SWAZILAND: Trans World Radio 4775 via **Mpanqela Rar**

f/d "Swazi Studio and Antenna Farm" cd. in 47 ds.

Dar Mr. Howard:

Thank you very much for your letter of April 12, 1972.
We are pleased to inform you that Burns Broadcasting
Service Station, Rangoon, has acknowledged and con-
firmed its broadcasting reception which you have
heard over frequency 5040 kHz on December 28, 1971 at
1147-1227 hours GMT.

The English Language program of this station usually
commence at 1430 to 1500 hours GMT.

We regret that QSL card is not available at the moment.
Fore more information kindly write to:

The Secretary
Ministry of Information
Rangoon, Burma

Sincerely yours,


(Pe Kyaling)
Second Secretary

NOTES: Jeff Molander in Elk Grove, CA says that he
appreciates seeing copies of the QSLs that he has
submitted being displayed in the QSL Column. (That's
what its all about...Sam.) Jeff thinks that other active DXers should

send in copies of their con-
temporary QSLs more often.
(So do I. However, try to
make them camera ready, ie.
sharp/clear black and white
contrast is better. Some-
times I receive really fuzzy
and gray looking copies.)
Jeff now has 118 C/V since
March of 98....Keep on send-
ing in the illustrations and
your reports...Sam.

Antenna <input type="radio"/> Plan.Terra <input type="radio"/> <input type="radio"/>	RIG <input type="radio"/> OPEB-1000W <input type="radio"/> <input type="radio"/>	ZYG-525
To Radio: DXISTA		
EMISSORA RURAL - A VOZ DO S. FRANCISCO		
Praça M. Auxiliadora, 205 - centro 68300-000/ PETROLINA - PE		
Operator J.Sgrulletta	Country/City Mahopac-NY/USA	G190RO - BRASIL
QSL n. 002/00	Date 14/10/1997	QRG (kHz) 4945
		QRT 20:45
		QZ <input checked="" type="radio"/> Loc
		Mode (2w) AM
		RST
QSL OPSE TRXO Tax our QSO, 73. Petrolina, 28/03/2000		
<i>Ultimocoravante, J.C. Gineira</i>		

for \$3.00 and a taped rpt.
(Willshaw-NC).

TAIWAN: Far East Relay 11725

via **CBS Taipei** the details
which I submitted to the

July issue were not complete. This was a relay of **WSHB**. (Field-MI).

Voice of Free China 9610 p/d "CBS Headquarters in Taipei" cd. in 7
wks. w/ schedule, stickers and report forms. (Barto-CT). **Radio Taipei**

International 9610 p/d "Megalaima Corti Bird" cd. in 60 ds. w/ sked.
sticker and a notepad. (Willshaw-NC).

TANGIERS: Voice of America 17895 f/d "Sunrise over the Greenville Antenna
Farm" cd. in 29 ds. (Willshaw)

THAILAND: Voice of America 17885

f/d "White House" cd. in 6
wks. (Barto-CT).

TINIAN: Voice of America 11930

f/d "Liberty Bell" cd. in 26
ds. (Willshaw).

TURKEY: Voice of Turkey 13640

via **Emirler** f/d "Young Lady
in Native Dress" cd. in 47
ds. w/ schedule, sticker,
station pennant and travel
brochures. (Willshaw-NC).

9460, 11955, 13750 and 15350
f/d cd. w/ stickers and a
newly designed station penn-

QSL Verification

Radio Republik Indonesia Ternate

Kepada Yth. Tuan Richard A. D'Angelo

Ini membenarkan laporan tuan dari Radio Ternate
siaran pada gelombang 89.6861 meter atau frekuensi 3.345 kHz,
pada 14 November 1990 dari 20.39 sampai 21.05
waktu Indonesia Bagian Timur. Pemancar kuasa studio
kami 10 kw. dengan antena.

Banyak terima kasih untuk laporan tuan.



Abd. Latif Kharun

Pimpinan atau Kepala Studio



ant in 3 mo. (Barto-CT).
USA: WINB 12160 f/d "One Sided Flag" cd. w/ schedule in 43 ds. (Willshaw-NC)...15160?
WBCQ 9330 f/d "World Globe w/ Rainbow" cd. in 34 ds. (Willshaw).
WTJC 9370 f/d "Waiting Till Jesus Comes" cd. w/ sticker and schedule in 8 ds. I also enclosed \$1.00. (Willshaw-NC). **KJES** 11715 via **Vado, New Mexico** f/d form ltr. in 2 wks. for ms. (Loudell-DE). p/d "Our Lady of the Snows" cd. w/ station history and literature in 28 ds. (Willshaw-NC).
WSHB 15665 p/d "International Caricatures" cd. w/ schedule in 23 ds. for \$2.00. (Willshaw-NC).
KTBN 7510 f/d "Antenna Array" cd. in 11 ds. (Willshaw). **WWCR** 12160 f/d "World Globe w/ WWCR Overlay" cd. in 34 ds. w/ station schedule. (Willshaw). **Voice of Greece** 17705 via **Voice of America - Delano** site p/d "Prince of the Lillies" cd. in 29 ds. w/ station schedule, brochures and mint Greek stamps (Willshaw). **WJCR** 7490 f/d "Jesus Portrait" cd. w/ ltr., religious book and a personal ltr. in 14 ds. for \$2.00. v/s Gerri



Powell. I received a second cd. 2 days later signed by Larry Baysinger. (Willshaw) **Voice of Free China** 15600 via **WYFR** p/d cd. in 7 wks. (Barto-CT). **Radio Taipei International** 15600 via **WYFR** p/d "Alcedo Atthis Bird of Taiwan" cd. in 58 ds. w/ newspaper, station stickers, photo album and report forms. (Willshaw). 5950 f/d cd. noting that my reception was for the weekend of the Taiwan Presidential elections in 5 mo. I also rcvd. station stickers, business cd. holder, station information and report forms. (Willshaw-NC). **WYFR** p/d "25th Anniversary" cd. w/ schedule, religious tracts in 37 ds. for \$2.00. (Willshaw). **US Armed Forces Network**

12689.5 via **Boca Chica, FL** n/d ltr. after 2 f/up rpts. in 44 ds. for 2 ms. v/s Michael Foutch, Broadcast Operations Specialist. (Buer-FL).
NOTES: Marlin Field says that he sent a reception report to **Radio Free Europe / Radio Liberty** which was returned with the note "Don't bother with follow up reports. just send a new report - no QSL." That he did not understand as he sent an original report in October 94, followed by another original report in September of 95, February of 99, May of 99. He also included program details from the previous receptions. Should he of left out the details from the previous receptions? The note was signed by David Wolcutt.....Sam.

CONFIRMATION OF RECEPTION "QSL"

DEAR: R D'ANGELO

WE ARE PLEASED TO CONFIRM YOUR RECEPTION OF HIT PARADE RADIO AS FOLLOWS:

TIME: 2248 UTC DATE: 20 MARCH '93 FREQUENCY: 7415.4 KHZ
 MODE: -AM- POWER: 35-40 WATTS TRANSMITTER: APACHE TX-1

REMARKS: Thanks for the report! I feel honored to get a report from a famous one.
 AT HIT PARADE RADIO WE SHOWCASE THOSE GREAT SONGS OF THE '60s, '70s & '80s

Sincerely,

DB
 Dale Dorman, Owner and Operator

USA (Pirates): Voice of Prozac 6955 f/d computer generated ltr. w/ f/d prepared cd. in 5 wks. for 3 ms.

I used the Pittsburgh address but the postmark was from Fort Wayne, IN. v/s Dee Pressed. (cute) (Sgrulletta-NY). WHYP 6949.6 I received an E-mail acknowledgement for an E-mail report saying that QSLs would soon be sent. (Wilkins-MO)...I got it! I rcvd. a f/d "Ohio Turnpike Travel Trailer Parks Information Sheet" w/ QSL data in 5 wks. (Wilkins-MO).

UZBEKSTAN: Radio Tashkent 15295 f/d "Logo" cd. in 58 ds. w/ station schedule and postcards (Borokowski-NY).

VATICAN: Radio Vatican 11625 I received a 2nd QSL for this frequency but none for 6205 from Russia. (Field-MI).

VIETNAM: Voice of Vietnam 9830 f/d paper cd. w/ schedule and station pennant in 9 wks. (Barto-CT).

VENEZUELA: YVTO 5000 f/d cd. w/ station information in booklet form in 3 mo. for a SP rpt. v/s Jesus Alberto Escalona C., Jefe del Servicio. (Barto-CT).

YEMEN: Radio Sana'a 9780 f/d "Castle" cd. w/ personal ltr. and program schedule in 9 mo. This was after a f/up

VERIFICATION SIGNERS: Radio Blandenque 6950 Casilla 159, Santiago, Chile. Emissora Z del Dragon 6950 ...as above. Andino Relay Service 6980.1 ...as above. Dark Pampa Radio 11470 via SWRS ...as above. Con Frecuencia 7465 via SWRS Casilla 950, Rosario 2000, Argentina.

Radio Bosques 6218.5 Alejandro Garcia, Operator. Magdalena 34, Villa Dominico 1874, Buenos Aires, Argentina. Britain's Better Music Station 6198 55D Chester Road, London N19 5DF, England. Harold Krishna's Music Service 7465 via SWRS P.O. Box 28413, Providence, RI 02908...via PLAY DX.

rpt. and \$1.00. v/s Altashi Ali. (Molander-CA).

ZAMBIA: Radio Christian Voice 4965 f/d cd. w/ ltr. in 37 ds. for 2 IRCs. (Raymond-NH)

广播收听证

亲爱的朋友，
证明您在1998年6月21日收听我台
公共台(4875 kHz)节目的情况。
欢迎您继续收听我台的情况。
谢谢！

全球之声广播电台
中国南京
1998年3月22日

Dear Friend, Michael S. Harlester
Your reception about our broadcasting
(4875 kHz) is correct on 21 June
1998.
You are warmly welcome to write to
us again.

Thank you very much.

Voice of Jingling
Broadcasting Station
Nanjing, China

1998. 3. 27.

GOVT. OF PUNJAB, INDIA | GOLD PORT | DELHI



Government of India
ALL INDIA RADIO
EXTERNAL SERVICES DIVISION
POST BOX 506, NEW DELHI, INDIA

Dear Sir/Madam,

We gratefully acknowledge your
Reception Report and thank you for joining
to our service on 6.15.98
on 3155 KHZ (BST SHELONG).

Yours faithfully,

MS

Assistant Research Officer
for Director of External Services

ART CENTRE 311, RAJUL, MOHAN STREET, BOMBAY COPYRIGHT

This seems like as good a place as any to end this month's column. I have truly enjoyed doing the QSL Column over the years. Keep the contributions coming in.....Sam.

CONFIRMATION

We thank you for your reception report and have pleasure in confirming that this is in accordance with our scheduled programme

Date: 21.6.98 via Molander

Time: 04:18 - 05:11 UTC

Frequency: 6265 kHz

Programme: LOCAL LANGUAGE AND ENGLISH NEWS

Remarks: CATCH OUR ENGLISH NEWS ON SAME

FREQ. AT 0500, 1115 AND 1500 UTC EVERY DAY.

PATRICK NKULA

for Director of Engineering
Zambia National Broadcasting Corporation

Sam

Scoreboard

Fred S. Kohlbrenner • 214 West Marshall Road • Lansdowne, PA 19050 • fkohl@ix.netcom.com

Hello again and welcome to the latest SCOREBOARD. This month we are highlighting our members totals from Oceania. The next deadline is December 15th for the January 2001 issue of the *Journal*. The spotlight then will be on South America. Please update your totals at least once a year to remain on the SCOREBOARD, and remember to use the NASWA Country List for counting totals. The Country List is available for \$3 from Company Store Manager Bill Bergadano. Remember to send your Scoreboard totals to me at my new address: 214 West Marshall Road, Lansdowne, PA. 19050.

Name, State	Total		Oceania		Best Oceania qst
	c/H	c/v	c/H	c/v	
James Young, CA	251	233	22	22	Cook Is 3265
Marlin Field, MI	243	243	22	22	R Kerema 3245
Dan Henderson, MD	242	234	20	20	Cook Is
William Flynn, OR	241	227	21	21	Solomon Is
Jerry Berg, MA	240	238	21	21	Fiji
Gerry Bishop, FL	238	223	20	20	Cook Is
John Sgrulletta, NY	236	236	20	20	Cook Is
Harold Cones, VA	234	232			
Steven Lare, MI	230	211	21	21	Tonga
Don Hosmer, MI	227	195			
Nobuaki Takahashi, Japan	226	201			
Richard A. D'Angelo, PA	222	216	20	20	Cook Is
Sheryl Paszkiewicz, WI	222	214	20	20	Kiribati
Richard Davis, NM	221	213	20	20	Kiribati
Paul Buer, FL	218	207	19	19	Cook Is
Jerry Klinck, NY	218	196			
Rick Krzemien, CA	217	212	19	19	Solomon Is
Christos Rigas, IL	217	197	20	19	Cook Is
Fred Kohlbrenner, PA	217	193	19	19	Cook Is
Jerry Lineback, KS	214	109	18	8	Solomon Is
Charles Washburn, ME	207	170			
George Maroti, NY	195	163	15	12	Tahiti
Stephen Price, PA	193	172	12	11	Vanuatu
Bob Fleck, TX	188	165			
Allan R. Loudell, DE	188	160	15	13	RRI Serui
Jim Renfrew, NY	187	153	13	10	Solomon Is
Ross Comeau, MA	184	156	15	13	Kiribati
Gary Froemming, AZ	181	44	11	5	VNG Australia
Andy Rugg, Quebec	178	157	8	7	ABC Perth
Bill Bergadano, NJ	177	117	11	8	VLW9 Australia
Bob Raymond, NH	174	147	8	8	Tahiti
Mark Humenyk, Ontario	169	137			
Robert E. Gearing II, FL	155	122			
Darren White, MS	154	110	11	10	Tahiti
Norm Constanti, MO	142	107	11	9	Vanuatu
George L. Glotzbach, NM	131	97			
Jill Dybka, TN	129	99	10	8	Solomon Is
Gary R. Neal, TX	125	115	7	7	VNG
Fred Willshaw, NC	117	46	7	5	Tinian, VOA
Ronald J. Hunsicker, PA	110	98	5	5	VNG
Gene Borowski, NY	94	83	5	3	ABC, VLH9
Bret Pollack, MD	82	54			
Ed Krucenski, FL	59	27	32		

Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty3@worldnet.att.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	NRD545 AOR AR-7030 100' LW
Ralph BRANDI, Tinton Falls, NJ	AOR7030, R8, 250' longwire
Paul BROUILLETTE, Geneva, IL	Drake R8, ICF2010, 60' long wire
Jim CLAR, Rochester, NY	R8, 2010, RF Systems mini-window ant
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Rich D'ANGELO, Wyomissing, PA	Drake R8, Lowe HF-150, DX Sloper
Walt FAIR, Maracaibo, VENEZUELA	Sangean ATS-909 Realistic ant. and LW
Mark FINE, Remington, VA	Drake R8, 150' longwire
George GLOTZBACH, Santa Fe, NM	R8B ARA-60
Bob HILL, Littleton, MA	Sony 2010 120' dipole at 35'
Fred KOHLBRENNER, Lansdowne, PA	Drake R8
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
John LYON, White Bear, MN	Lowe HF 225, 60 m dipole, 70' random
David M MARTIN, MD, Atlanta, GA	RX-320, Eavesdropper trap dipole
William McGUIRE, Cheverly, MD	DX-380
Jim MOATS, Ravenna, OH	no equipment listed
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, RX-320, SE3, active antenna
Gary NEAL, Sugarland, TX	Grundig YB-400
Ed NEWBURY, Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
Takayuki Inoue NOZAKI, Tokyo, JAPAN	NRD515 NRD535 FRG7000
Jay NOVELLO, Wake Forest, NC	Drake R8A, long wire
Mike PACE, Tipton, IA	Drake SW2, MFJ1022
Bob RAYMOND, Nashua, NH	R8B 20m 5/8 wave vertical
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
Chuck RIPPEL, Cornland, VA	WJ-HF1000A R8B R390A/SE3 51S-1 LWS
David ROSS, Hamilton, ONT	Drake R8, Icom IC75, 50' inverted "L" antenna
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
J. STRAWMAN, IA	no equipment listed
Ed TILBURY, AK	AR7030
Fred WILLSHAW, Charlotte, NC	Drake R8B EMF indoor antenna
Gerald WITHAM, Keaau, HI	no equipment listed

Many thanks to this month's contributors. Reception is picking up as the year moves on. Interesting to note there are only 2 of us left using hollow state receivers.

For those who send loggings by postal mail, please do not cut into strips. I scan and email the postal listings and is easier if not in strips. This will save all of us a lot of work and time.

Keep the loggings coming and good dxing till next month

73

Bob Montgomery



Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • spasz@dataplusnet.com

- 2310 AUSTRALIA ABC 9/17 0930 Live Olympics, vy strong (Tilb-AK)
 2325 AUSTRALIA ABC 9/17 0930 Live Olympics, vy good (Tilb-AK)
 2410 NEW GUINEA R Enga 9/17 0934 M&W, piano, poss rel pgm (Tilb-AK)
 2485 AUSTRALIA ABC 9/17 0930 Live Olympics, vy good (Tilb-AK)
 3235 NEW BRITAIN RWNB 9/17 0834 rel pgm, PD singing (Tilb-AK)
 3245 NEW GUINEA R Gulf 9/17 0945 M anncr w/island mx, weak (Tilb-AK)
 3260 NEW GUINEA R Madang 9/17 0835 weak, didn't improve (Tilb-AK)
 3265t SULAWESI RRI Gorontalo 9/17 0941 Hindi chanting & mx (Tilb-AK)
 3275 PAPUA Radio S Highlands 9/17 0925 rel svc, Hallelujahs (Tilb-AK)
 3290 GUYANA R Guyana 2 8/30 0730 BBC nx, no static crashes (Mont-PA)
 3300 GUATEMALA R Cultural 9/17 0836 rel pgm in SP (Tilb-AK) 8/14 0443 LA mx, fair (Will-NC)
 3325 BOUGAINVILLE R Bougainville 9/17 0920 island mx birds, Mex mx (Tilb)
 3335 NEW GUINEA R East Sepik 9/17 0838 OM w/rel svc in Pidgin (Tilb-AK)
 3345 MOLUCCAS RRI Ternate 9/17 0945 IN YL w/IN pop mx, nx at 1000 w/sev mentions of Ternate (Tilb-AK)
 3350 N KOREA KBS Pyongyang 9/17 0920 KK harangue, fair (Tilb-AK)
 3355 NEW GUINEA Radio Simbu 9/17 0851 PD sermon, jingles (Tilb-AK)
 3385 NEW BRITAIN R East New Britain 9/17 0840 Pidgin anmts & island mx, EG messages at 1002 (Tilb-AK)
 3905 IRIAN JAYA RRI Merauke 9/17 0855 long talk in IN, IN pop mx (Tilb-AK)
 3960 SULAWESI RRI Palu 9/17 0906 OM in IN & orch mx (Tilb-AK)
 3976 KALIMANTAN RRI Pontianak 9/17 1025 IN pop vocals (Tilb-AK)
 3985 ITALY IRRS 8/29 0455 mx & talk, fair (Will-NC)
 3987.2 IRIAN JAYA RRI Manokwari 9/17 1020 continuous IN vocals (Tilb-AK)
 4120 N KOREA Vo Natl Salvation 9/17 1017 long talk in KR vy good (Tilb-AK)
 4775 SWAZILAND TWR 8/20 0421 rel mx, weak (Will-NC)
 4815 BURKINA FASO Radio Burkina 8/30 2018 tribal chant, talk (Serr-IT)
 4819.1 HONDURAS LV Evangelica 9/17 1030 OM & LA mx (Tilb-AK)
 4835 MALI R Malienne 8/22 1946 FR nx, mx (Serr-IT)
 4890 PAPUA NBC 9/17 0845 EG rel pgm, vy good (Tilb-AK)
 4911.1 DOMINICAN REP R Barahona 9/8 2345 Yankees vs Red Sox, ads, ID (Nove)
 4920 INDIA AIR Chennai 9/17 1530 News at Nine in HD, into EG (Tilb-AK)
 4930 DOMINICAN REP R Barahona 9/7 2325 merengues, nx promo, ID, no Honduras (Nove-NC)
 4950 KASHMIR AIR Srinigar 9/17 1530 Delhi nx, 1538 EG, phone in pgm at 1546 (Tilb-AK)
 4950 SÃO TOME VOA Relay 8/30 2025 EG/Hausa nx, Ids, IS (Serr-IT)
 4960 VANUATU Radio Vanuatu 9/17 0850 rel pgm, lots of singing (Tilb-AK)
 4976 UGANDA R Uganda 8/30 1733 nx, ment Kampala, Uganda (Serr-IT)
 4980 VENEZUELA Ecos del Torbes 9/17 1040 continuous Latin pop (Tilb-AK) 8/23 0310 LA mx & SP talk, good (Will-NC)
 4985 BRAZIL R Brasil Central 8/16 0056 fast talking soccer game, IDs (D'An-PA)
 4995.7 PERU Radio Andina 9/17 1050 Andean instl mx, decent sig (Tilb-AK) 9/5 0933 talk & OA vocals, nice ID 0939 (D'An-PA)
 *4996 RUSSIA RWM 8/21 2316 TP, tones, CW ID poor-fair (D'An-PA) Nice!—sp
 5020.3 NIGER LV du Sahel 8/18 1944 talk, kids chanting (Serr-IT)
 5035 UZBEKISTAN R Tashkent 8/18 1936 GM anmts, nx //5025, 5060 (Serr)
 5047 TOGO R Lome 8/22 1936 disco mx & Afr mx (Serr-IT)
 5500 ERITREA Vo Eritrea 8/29 0324 mx, talks, ID 0330, suddenly off (D'An-PA)
 5770 NICARAGUA Radio Miskut 8/28 0001* talk, fanfare, ID, NA (D'An-PA)

International Band Loggings

Wallace C. Treibel • 357 N.E. 149th Street • Seattle, WA 98155 • nwhikers@uswest.net

- 5910 **RUSSIA R Rossit** Moscow in RS 0110, lite mx, ID 0155, good sig but static, //5935 (Fair VEN 8/23)
- 5985 **CONGO R Congo** Brazzaville in FR 2217-2302*, Afro style mx, tlks, ID, jazz, nx, s/off w/o NA, some problems from VOA/UK and WYFR (D'Angelo PA 8/22, Brandi NJ 8/24) Trx to Pete Costello
- 6050 **BRAZIL R Guarani** Belo Horizonte in PT 2155, pop mx, ID, pips, nx, QRM HCJB (Fair VEN 8/19)
- 6070 **CANADA CFRX** Toronto in EG 1706, relay mw CFRB, lcl wx & traffic rpts, ID (Ross ONT 8/27) in EG 2230, "Sunday Money Show", back on w/audio problems remedied (Brouillette IL 9/3) 1 kw.
- 6135 **BOLIVIA R Santa Cruz** in SP 0959*, Latin Amer mx, ID 0950, abrupt s/off, f (Raymond NH 9/9)
- 6160 **CANADA CKZN** St Johns Newfoundland in EG 0725, CBC overnight, ID's, E-mail QTH, Newslink 0730, listed at 300 watts (Montgomery PA 9/6)
- 6249 **EQUATORIAL GUINEA RN** Malabo in SP/Vern 2302*, ID, Afro folk mx, NA, g, on the air 1 hour later than scheduled 2200 s/off (Alexander PA 8/19)
- 6350usb **HAWAII AFN** Pearl Harbor relay in EG 0750, business rpt, tlks re stocks, game show 0803, promo, f (Montgomery PA 9/6) ED: Trx to Mauno (Finland), HCDX, and the Naval Media Center for info on this xmtr site. Scheduled xmsns from Iceland on this fgy not available as of 9/1.
- 64585usb **PUERTO RICO AFN** relay Roosevelt Roads in EG 0130, NFL football game Chiefs vs Jaguars, exc (Fair VEN 8/20) in EG 0007, ID, baseball game live, //126895 Key West, FL (Montgomery PA 9/6)
- 6536v **PERU R Dif Huancabamba** in SP 2355-0156*, huaynos, folk mx, ID, ancmts, promos, abrupt s/off (Fair VEN 8/24, Clar NY 9/8, Rippel VA 8/27, Alexander PA 8/26)
- 6673 **PERU R Super Sensacion** Chiclayo in SP 0230, Andean mx, ID, deep fades (Montgomery PA 9/9)
- 6673 **PERU R Andina** Huancabamba in SP 0303*, OA folk mx, ID, anmts, long tlk, ID's, TC's, NA at s/off (Alexander PA 8/19, D'Angelo PA 8/19, Nozaki JP 8/26) ED: Some fun separating these Peru stns!
- 6957v **PERU L Voz del Campesino** Huarmaca in SP 0045-0306*, OA folk mx, ID's, lively Andean mx, TC after each song, NA by brass band (Alexander PA 9/4, Raymond NH, Brouillette IL 9/4)
- 7110 **TUNISIA R Tunis** Sfax H.S. relay in AR 0659*, typical AR mx, tlks, chants, f-g (Montgomery 8/30)
- 7125 **GUINEA R Conakry** in FR/EG 0645, mx, nx, ID in EG, pgm in EG re Anglican church in Guinea, kettle drum mx, ancd fqys (Brandi NJ 9/9, Montgomery PA 8/30)
- 7160 **ALBANIA R Tirana** in EG 0230, nx, press review, economic notes (Brouillette IL 9/4)
- 72103v **BENIN R Benin** Cotonou in FR 0607, mx, tlks, ID, promo, still strong 0604 (Brandi NJ 8/27)
- 7210 **BELARUS R Minsk** in EG 0158, ID's in multi langs, into EG pgmg w/nx, QTH (Brandi NJ 8/28)
- 7215nf **NAMIBIA Namibia BC** Windhoek in FR/EG 2303, ment World Radio Network, lots Sinatra rx, into R Australia pgmg from Namibia (sic), ancd as "overnight sustaining service for 3 month trial", cited sked info on web page <<http://natradio.imlt.org.na/frequencies.htm>> (Brandi NJ 8/29)
- 7255 **NIGERIA VoN** Ikorodu in EG 0530, nx, ID's, mx pgm (D'Angelo PA, Newbury NE 9/6) in EG 2154 business nx & sports nx, ID, into FR 2202, exc (Fine VA 8/26)
- 7265 **SOUTH AFRICA FEBA** Seychelles relay in Yao dialect 1715, mx, ID, drums, f (Witham HI 8/19)
- 9330nf **USA WBCQ** Kennebunk ME in EG 2235, gospel mx, tlks, ID, ad for SW radio (Fair VEN 8/20)
- 9345 **ISRAEL Kol Israel** in HB 2142, discussion, US oldies, pips TOH, nx, hum/fades (Montgomery 9/8)
- 9440 **SLOVAKIA R Slovakia Int** in EG 0100, IS, ID, fqy, sked, "Slovakia Today", g (McGuire MD 8/18)
- 9480 **RUSSIA VOR** Moscow in EG 1701, lcl nx, ID's, ancmts, tlk on Internet in Russia, //9775 Moscow, 9890 St Petersburg, 11510 Armenia (Serra ITALY 8/30)
- 9505 **JAPAN R Japan NHK** Tokyo in EG 1410, tlk re Japan opening 1st totally Internet bank (Newbury 9/7)
- 9520 **PHILIPPINES R Veritas Asia** in CH 1152, CH mx, ID in EG, fqys, QRM VOA (Brandi NJ 9/1)
- 9590 **SINGAPORE R Singapore Int** in EG 1120, tlk re starting Internet business, ID, nx (Martin GA 9/9)
- 9595 **JAPAN R Tampa NSB** Tokyo in JP 1204, piano mx, //Windows Media Player stream (Brandi NJ 9/1)
- 96301 **BRAZIL R Aparecidia** in PT 0840, mx, jingle ID, ads (Brandi 9/4) in PT 2308, tlk w/frequent ments of São Paulo, short prayer 2312, PT pop vcsl (Kohlbrenner PA 9/1)

- 9660 CHINA *REE España* relay Beijing in SP 1015, tlk w/background mx, ID (Lyon MN 8/31)
- 9675 PAPUA NEW GUINEA *NBC* Port Moresby in EG 0800, NBC nx, pop mx, exc sig (Martin GA 9/9)
- 9690 SPAIN *China R Int* relay in EG 0300, IS, ID, nx, rpt on religions in CH (McGuire MD, Newbury NE)
- 9695 CANADA *V of Vietnam* relay in EG 0230, tlk on marine environment protection, nx re Sri Lanka, exc (Robinson TN 8/10)
- 9710 LITHUANIA *R Vilnius* in EG 0930, IS, ID, pgm preview, tlk abt Lithuania, f (Serra ITALY 8/20)
- 97373v PARAGUAY *RN del Paraguay* in SP 1016, Lat Am mx, tlks, f (Willshaw NC 8/25) in SP 2305, live sports coverage, ID 2321 (Kohlbrener PA 8/19)
- 9795nf CANADA *V of Vietnam* relay in EG 0331, National Day, tlk on modernization in Nam (Newbury 9/3)
- 9835nf IRAN *VOIRI* Kamalabad in EG 0050, ID, tlk on need for spiritual awakening (Newbury NE 9/10) in EG 0110, relig pgm, nat'l & regional nx, fqy, sked, QTH, ID, g (McGuire MD 8/15)
- 9870 SAUDI ARABIA *BSKSA* Riyadh in AR 2220, AR soft mx, ME mx, QRM (Fair VEN 9/9)
- 9900 RUSSIA *Deut Welle* relay Irkutsk in GM 1030, nx, stocks, QTH, ID, //13720, g (Lyon MN 8/31)
- 9910 INDIA *AIR* Aligarh in EG 2208, nx, ID, commentary, g (Fair VEN 9/9)
- 9965 PALAU *KHBN* in EG 0815, relig mx, relay of High Adventure Ministry (Martin GA 9/9)
- 9988 EGYPT *R Cairo* in IT 1802, pgm preview, ID's, pgm re Egyptian women, tlk re sleep, lcl nx, AR mx break, pips 1815, anthem, political nx (Serra ITALY 8/18)
- 10320u HAWAII Pearl Harbor relay of *AFN* in EG 0242, oldies rx - today's hit music, yesterday's favorites, ID, cmntry (D'Angelo PA 8/27, Willshaw NC 8/20) ED: See comments under 6350usb above.
- 109405u SICILY *AFN* relay Sigonella 2104 in EG 2104, nx, report on Gore campaign (Willshaw NC 8/19) in EG 2356, football reviews, ID 2356, QTH, cmntry, nx at TOH, g (Montgomery PA 9/5) in EG 0236, Field & Stream pgm, many ID's "Armed Forces Network", AP Network News, g (D'Angelo PA 8/16)
- 11600 CHINA *R France Int* relay Xi'an in Cambodian 1257*, tlk by OM, mx, //12025 Irkutsk (Lyon MN 9/2)
- 11675 KUWAIT *R Kuwait H.S.* relay in AR 0337, AR mx, discussions between songs (Rippel VA 8/18)
- 11675 CHINA *China Radio Int* Kunming in EG 1220, stock mkt rpt, press review, nx, ID (Brandi NJ 9/1)
- 11700 BULGARIA *R Bulgaria* in EG 0200, IS, ID, fqy, sked, nat'l nx, mention UN, g (McGuire MD 8/31)
- 11710 NORTH KOREA *R Pyongyang* in EG 1915, nx, ID, rpt, nationalistic mx, fqy drift, f (Witham HI 8/6)
- 11725 NEW ZEALAND *RNZI* in EG 1904, nx, sports, ID, wx rpt, TC, "Morning Report", nx in Rarotongan at 1940, fqy change to 17675 at 1950 w/bird call IS (Brandi NJ 9/7)
- 11730 TUNISIA *RTV Tunisienne* in AR 1629, tlk mixed w/pop mx, AR song, //17735 (Serra ITALY 8/22)
- 117341 TANZANIA *V of Tanzania Zanzibar* in SH 2002-2100*, lcl stringed instrumentals, AR tlk by OM, nx at 2030, long mx segments, QRM China R Int'l (Kohlbrener PA, Fine VA, D'Angelo PA)
- 11735 GERMANY *R Reveil* relay Jülich in FR 1835, mx, ID as "Paroles de Vie", web site, mixing w/RCI relay from UK (Brandi NJ 9/7) ED: This is a half hour xmsn hrd only once weekly on Thursdays.
- 11740 SINGAPORE *R Telefis Eireann* relay in EG 1000, ancw w/Irish accent, nx, wx rpt, Sunday Tribune, traffic rpt, abruptly off at 1020, QRM from Vatican Radio (Montgomery PA 9/2)
- 11787 IRAQ *R Baghdad* in EG 1930-1952, YL with nx & cmntry, ID, muffled audio (Kohlbrener PA 8/25)
- 11850 CHINA *R China Int* Jinhua in IT 1830, IS, ID, lcl nx, cmntry, lcl mx, //9965 Beijing (Serra 8/18)
- 11855 ASCENSION ISLAND *R Japan* relay in EG 2135, chorus, tlk re mtn festival in Japan (Witham 8/9 HI)
- 11940 ROMANIA *RR1 Bucharest* in EG 0400, IS, ID, fqy, sked, political nx, f (McGuire MD 9/3)
- 11970 THAILAND *BBC* relay in Farsi *1830, ID, nx, rpts, g, //7210, p (Witham HI 8/9)
- 11980 GUAM *KSDA Adventist World R* in CH/EG 2138, OM DJ playing Christian pop mx, ID 2152, promo for AWR pgm in CH following at 2200, f, //15550 w/cleaner signal (Costello NJ 8/30)
- 12005 UNITED ARAB EMIRATES *H.S.* relay in AR 0325, AR mx, into EG 0330, nx, //13675, 15400, best of the three was 13675 with only a fair signal (Witham HI 8/10)
- 120197 VIETNAM *V of Vietnam* Hanoi in EG 1000, nx, cmntry, ID, 100 kw xmtr (Alexander PA 8/25)
- 12025 RUSSIA *R France Int* relay Irkutsk in Cambodian 1257, vg, //11600 - Xi'an, China (Lyon MN 9/2)
- 12060 RUSSIA *VO Mediterranean* relay Moscow in EG 1945, poetry reading, mx, ID's, p (Witham HI 8/23)
- 12085 MONGOLIA *V of Mongolia* Ulan Bator in EG 1030, discussion of summer activities in Mongolia, regional songs, abruptly off in mid-sentence at 1055, f (Martin GA 9/3)
- 12579usb DIEGO GARCIA *AFN* relay in EG 2304, rock & roll mx, very weak w/QRM, noticeably stronger on dual 126895usb Key West, FL (Hill MA 8/29) ED: Diego site confirmed by Naval Media Center
- 133635 ARGENTINA *R Continental* in SP 2258-0023+, new fqy on LSB, mx, tlk, ID, 4+1 pips at 2330, live coverage of soccer match, apparently a feeder station (D'Angelo PA, Brandi NJ, Costello NJ)
- 13620 INDIA *AIR* Bangalore in Pashto 0235, business nx?, nice traditional nx (Brouillette IL 9/4)

- 13675 **UNITED ARAB EMIRATES R Dubai** in AR 0232, Koran readings, good level but QRM splashover (Brouillette IL 9/4) in EG 0323, morality play, AR mx (Newbury NE 9/8)
- 13700 **NETHERLANDS R Nederland** Flevo in EG 1900, tlk on poverty, lots of Bach mx (Robinson TN 8/11)
- 13710 **RUSSIA R Nederlands** relay Irkutsk in EG 0928, carillon bells IS, preview of The Research File, into "Newsline", story on Aung San Su Kyi (Brandt NJ 9/4)
- 13795 **INDIA AIR** Bangalore in Hindi 2320, nx, frequent mention of Delhi, ID, pop mx, g (Lyon MN 9/2)
- 15084 **IRAN VOIRI** Kamalabad in Farsi 2210, traditional mx, several OM's in discussion (Brouillette IL 8/8)
- 151498 **INDONESIA VOI** Jakarta in EG *2000-2100*, IS, ID, ancmts, nx, features, p (D'Angelo PA 8/27)
- 15175nf **NEW ZEALAND RNZI** in EG 0930, National Kiwi pgm, ID, abruptly off 0959 followed by 6 pips, probably an antenna direction change, powerhouse signal (Montgomery PA 9/4)
- 151848 **EQUATORIAL GUINEA R Africa** Bata in EG 2053, sermons, relig mx, "Cavalry Radio Hour" 2100, good signal but fair audio, QRM from unidentified on 15180 (Hill MA 9/11)
- 15190 **PHILIPPINES R Pilipinas** Tinang in EG 1930*, instrum'l, ancmts, ID, p (D'Angelo PA 9/4)
- 15210 **CHINA China R Int** Jinhua in EG 0914, nx, ID, cmntry, CH mx, feature pgm, f-p (Serra ITALY 8/20)
- 15220 **ANTIGUA BBC** relay in EG 1309, Abujue (sic) politics in Nigeria, exc (Pace IA 8/26)
- 15240 **ITALY RAI** Rome in EG *2000, ID, nx, xsmn for Japan & Far East, f (Brouillette IL 9/4)
- 15240 **NORTHERN MARIANAS VOA** relay Tinian Is. in EG 1200, "VOA News Now", g (Ross ONT 9/4)
- 15265nf **UNITED KINGDOM UN Radio** via Woolferton in EG *1730, IS, pgm for 15 minutes only, ment that bcst was "to Africa for the first time today", nx, features, f, //17710, Ascension Is. (D'Angelo PA 9/4)
- 15295 **MALAYSIA V of Malaysia** in Malaysian 0958, instrum'l mx, nx, several ments Kuala Lumpur, sked?, into pgm in Mandarin after 1030 (Kohlbrener PA 9/2)
- 15295 **UZBEKISTAN R Tashkent** in EG *1330, slow IS on plucked string inst., ID, livelier mx, nx at 1332, signal weak and fluttery, //17775 a little worse (Brouillette IL 9/4)
- 15315nf **UNITED KINGDOM R Telefis Eireann** relay Skelton in EG *1800, nx, traffic, wx rpts, features, off the air abruptly at 1830 (Martin GA 9/6)
- 15395 **THAILAND R Thailand** in EG *0030, sports nx, wx rpt (40 C), mx, IS (clock chime) at TOH, singing NA?, classical mx, into Thai 0100, strong signal (Montgomery PA 9/5, Brandt NJ 9/7)
- 15425 **SRI LANKA SLBC** in EG 0120+, nx, ID, instrum'l & pop mx, pips at TOH and on the quarter hour (D'Angelo PA 8/19, Montgomery PA 9/5, Alexander PA 8/26)
- 15445 **FINLAND R Finland Home Service** relay in SW 0420, tlk, prayer, ID, g (Witham HI 8/22)
- 15475 **GABON Africa #1** in FR 1805, sports nx, anmts, ID's, xmtr problems (Montgomery 8/29, Clar 9/9)
- 15545 **CZECH REPUBLIC R Prague** in EG 2255, pgm on translating old EG into CZ, ID (Witham HI 8/20)
- 15565 **NETHERLAND ANTILLES RVI Belgium** relay in EG 2230, "....Belgium has 3 official languages" mx: "Belgium Blues", exc (Robinson TN 8/6)
- 15575 **CYPRUS BBC** relay Limassol in EG 1400, nx w/African & Mideast items, f (Ross ONT 9/4)
- 15585 **UNITED KINGDOM European Beacon** relay Skelton in EG 1820, preaching on how woman was created and for what purpose, ID, f (Witham HI 8/23)
- 15625 **RUSSIA IBRA radio** relay Moscow in AR 2045, ME mx, ID, Cyprus QTH, f (Witham HI 8/19)
- 157599 **ISRAEL Reshet Bet** Tel Aviv in HB 0245, ads, jingles, vcls in EG, Torah reading?, p (Witham 8/22)
- 15820lsb **ARGENTINA R Diez** Buenos Aires feeder in SP 0955, nx on hr, wx rpt, ID (Nozaki JAPAN 8/26)
- 17505 **NORWAY R Norway** in NO 1715, folk mx, tlk, IS, ID, into R Denmark relay 1730 (Fair VEN 8/26)
- 17525 **SLOVAKIA Adventist World Radio** relay in EG 1430, IS, ID, nx items, relig pgm, f (Ross ONT 9/4)
- 17590 **GERMANY RVI Belgium** relay in DT 1845, lite mx, tlk on internet business, ID, g (Fair VEN 8/26)
- 17640 **GERMANY Swiss R Int** relay Jülich in AR/FR 1758, AR tlk, internet QTH, ID, into FR lang at 1800, regional nx, g (McGuire MD 9/3)
- 17675 **NEW ZEALAND RNZI** in EG 0200, classical mx, "In Touch with NZ" featuring oldies, much weaker sig than usual (Brouillette IL 8/9) in EG 1950, bird call IS after switch from 11725, f-p (Brandt NJ 9/7)
- 17680 **CHILE LV Cristiana** in SP 1845, relig pop & inspirational mx, ID's, promos, //21550 (Clar NY 9/9)
- 17680 **JORDAN R Jordan** in EG 1040, "Monday Brunch" show w/mx, reading listener's E-mails, nx 1100, QRM from Deut Welle at 1100 blotted out R Jordan (Martin GA 9/4)
- 17690 **HUNGARY R Budapest** in HG 2020, tlk, ID, remote bcst w/crowd noise, g (Witham HI 8/9)
- 17715 **INDIA AIR** Aligarh in HD 0505, nx, ment Pakistan/America, tlk, regional mx, //15185 (Witham 8/22)
- 17725 **LIBYA R Tripoli** in EG AR 1400, tlks w/mx in background, continuous chants, lively mx interludes, extremely overmodulated bcst and QRM from D Welle 17730, vp (Montgomery PA 8/27) in EG with short EG nx xmsns at 1751 and 2047, strong sig but muffled audio (Alexander PA 9/3)
- 17765 **PHILIPPINES VOA** relay in Mandarin 0120, two feeds on simultaneously, //15150 (Brandt NJ 8/31)

- 17770 **SOUTH AFRICA Channel Africa** in EG *1459, IS, ID, drums, pips, TC, fgy, nx (Serra ITALY 8/24)
- 17775 **UZBEKISTAN R Tashkent** in EG 1200, ID, cultural tlk on Uzbeks, heroic mx, f, //15295 (Lyon 9/2) in EG 1340, political tlk, mention of Islamic and "our brave soldiers", f (Martin GA 9/3)
- 17780 **ITALY RAI International** Rome in IT 1858, pop mx, ID, IS, g-vg (Clar NY 9/9)
- 17815 **ROMANIA RRI** in SP 0020, mx, ID, NA, off for 2 min at 0058, then into PT 0100, f (Witham 8/19)
- 17820 **PHILIPPINES VOA** relay Tinang in EG 2236, nx re sunken Russian sub, etc., f (Willshaw NC 8/16)
- 17870 **SOUTH AFRICA Channel Africa** in EG 1800, nx, ID, drums, stock rpt, correspondents' rpts, into FR programming at 1828 (Montgomery PA 8/29, Serra ITALY 8/30)
- 21470 **CYPRUS BBC** relay Limassol in EG 1630, ID, African sports nx, f-g (Lyon MN 9/2)
- 21560 **RWANDA Deut Welle** relay Kigali in GM 1555, tlks, IS, ID 1600, f (Fair VEN 8/19)
- 21620 **VATICAN STATE Vatican R** in EG 1400, tlk on Vatican council, ID, IS, vg (Lyon MN 9/4)
- 21630 **ASCENSION ISLAND R Telefis Eireann** relay in EG 1826, nx, cmtry on 2nd anniversary of last IRA bombing, economic nx of Ireland (Willshaw NC 8/15, Martin GA 9/6)
- 21695 **GERMANY Deut Welle Wertachtel** in FR 1605, nx on situation in Congo, ID, f (Fair VEN 8/19)
- 21715 **TURKEY VOT** Ankara in EG 0340-0350*, regional nx, ID, sked, p, //11655 (Witham HI 8/23)
- 21735 **UNITED ARAB EMIRATES Abu Dhabi** in AR 1435-1559*, tlk, ME mx, ID, g (Fair VEN 8/20)
- 21740 **AUSTRALIA RA** in EG 2301, nx re Russian submarine disaster, g (Willshaw NC 8/14)
- 21745 **CZECH REPUBLIC R Prague** in EG 0900, book review, ancmts, ID, pop song, f (Serra ITALY 8/20)
- 21775 **GERMANY Deut Welle Nauen** in EG 1620, rpt on naotechnology, ID, g (Fair VEN 8/19)
- 21815^{usb} **COSTA RICA RFPI** Santa Ana in EG 1625, tlks on local community development, f (Fair VEN 8/19)
- 25820 **FRANCE R France Int** in FR 1250, 2 men discussing current affairs, multi-path echo (Brouillette 9/4)

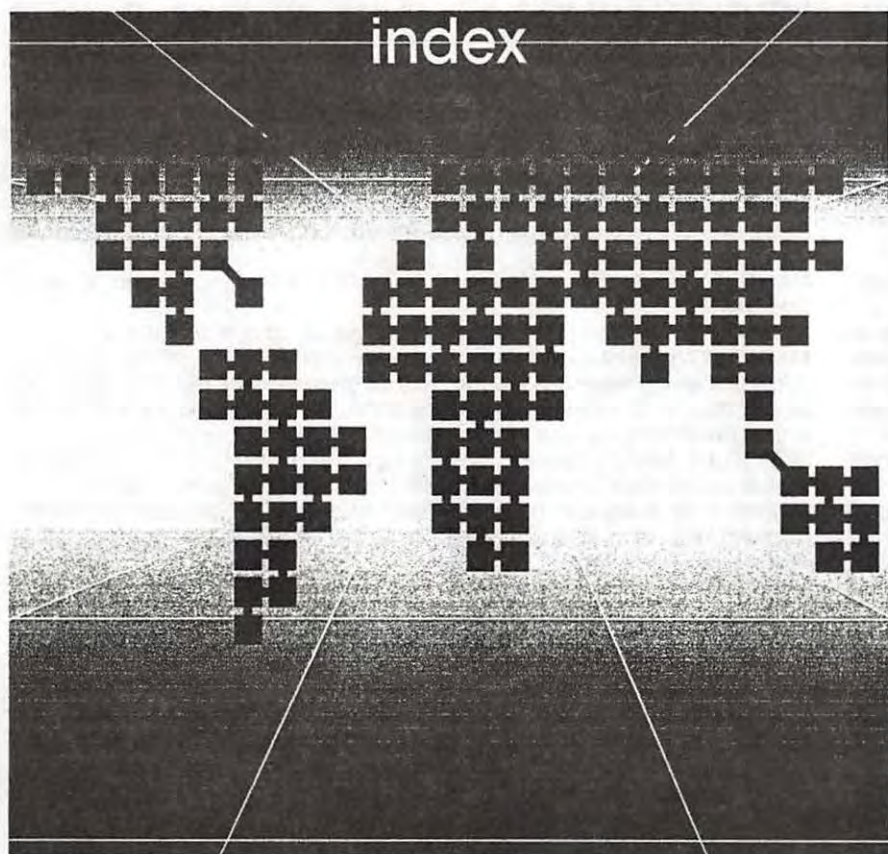
Clandestine, Tentative, Presumed, or Unknown

- 6130 **LAOS (t) Lao National R(t)** in Laotian(p) 1155, "Big Bells" at 1159, static crashes marred recording of pgm but signal peaked at S-8, fade out by 1235 (Strawman IA 8/25)
- 6673 **PERU (p) R Nueva Sensacion(p)** in SP 0035, Andean mx, ancmt, ID 0100 unreadable (Fair VEN 8/25)
- 69951 **IRAQ V of the People of Kurdistan** in Kurdish/AR 0208-0306+, lite instrum'l and martial mx, tlks, Koran 0223, ment Iraq several times, nx items, ID? (Alexander PA, Montgomery PA, Costello NJ 9/8)
- 7450 **ALGERIA (t) Nat R Saharan Arab Dr(t)** in AR 2305, Mideast mx, tlks, no ID copied (Martin GA 9/6)
- 9460 **LIBERIA (t) ELWA(t)** in lang 1850, childrens' chorus, mx, ID?, tlk, p (Witham HI 8/9)
- 9565 **BRAZIL (p) R Tupi Curitiba(p)** in PT 2250, tlk w/mx interludes, relig sermon (Kohlrenner PA 9/1)
- 9780 **YEMEN (p) Repub of Yemen R(p)** in EG 1811, pop mx, press review, ID?, QRM (Serra ITALY 8/30)
- 15060 **UNIDENTIFIED** in VT? *0000, orchestral theme and YL tlking, OM took over at 0001 in what sounded like different non-tonal lang, very faint sig, choppy, echoey, vp (Hill MA 9/3)
- 15185 **INDIA (p) AIR Delhi(p)** in Arunachal? 1113, "Song of the Coconut Islands" hrd, then 2 min of blank space after which OM came on w/tlks at 1115, s/off 1140 (Montgomery PA 8/28)
- 15365 **GERMANY V of Democratic Ethiopian Revival** relay Jülich in Amheric(p) 1639-1659*, long talks, nice Horn of Africa vcl sels until s/off ID and ancmts, f, carrier cut in mid-song (D'Angelo PA 9/4)
- 15550 **CLANDESTINE R International?** in lang 1704-1730*, mainly long winded tlks, brief mx interludes, BeeGees song, ID's, s/off ancmts accompanied by stringed instrum'l mx, p-f (D'Angelo PA 8/27) ED: Radio Antena National is listed with s/on 1700 to s/off 1730 as a "Liberation Program" relayed from Moldova in Farsi language. Could this be the one hrd by Rich?
- 17635^{nf} **TAIWAN (p) Taiwan Herald Broadcasting Syndicate** relay in EG 1156, audio tones, IS, ID, Christian Science "Sentinel" at 1201, sermon, relig mx, "Bible Lesson", "Science and Health", sked, Voice of Russia IS 1259, //9875 (Moats OH 9/10) ED: Moats rpts that there is some doubt about relay coming from Taiwan. Hanlon PA believes xmsn is a relay from a Russian Siberia outlet.

EDITOR'S NOTE: Nice turnout this time. Thanks to all who contributed to the column. I will be on vacation from October 20-November 1 so this will compress my schedule for preparing and submitting the column for November. It would be very helpful if E-mailed loggings get to me no later than October 12. For those sending loggings via regular mail, please get them to Bob Montgomery by the 10th or earlier if possible. ~~SA~~

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