

	<h1>New Zealand DX Times</h1> <p>Monthly Journal of the New Zealand Radio DX League (est 1948) June 2020 Volume 72 No. 9</p> <p><a href="http://www.radiodx.com">http://www.radiodx.com</a></p> 	
---	---	---

*Welcome to the June edition of the DX Times.*

Winter has officially arrived and we have moved into Covid-19 Level 2 - limited free movement; however, we are still keen on listening to the bands! Another bumper issue is the result. I am enjoying listening to the club's new SDR based at Mike Smith's QTH in Opunake. Thank you to Mike for hosting the SDR and thank you to Adcom for providing the wherewithal. See page 4 for President Arthur's comments on proceedings.

Welcome to 3 new members - **Kieran Turner from Riverton** - near the home of the 6 by 3 - Branks country!!; **Trevor King, from Wellington City**. He lives at the same address as our late member Ralph Sutton. Trevor says that has been a licenced amateur operator since May 1948. He was also a broadcaster in the 1950s at 2ZA, 2YD, 2YC, 2YA and the Shortwave Service of Radio N Z. [2YD - now that is a blast from the past!!] and **Jim Nicolle from Lower Hutt**. You are all a very welcome addition to the club and we hope you all share your listening details with us.

On the other hand we are very sad to say farewell to an original member of the League - **Rex Gillett**. He is one of the last 2 originals left - the other is Ross Gibson, who is still very much alive and well and we celebrate that. An obituary for Rex is to be found on page 4.

From **League President, Arthur De Maine**: As reported in last month's DX Times a second League members-only SDR was been set up in Opunake. The SDR is now up and operational and the password is the same as the one used to access the Northland SDR. Mike's location is 60m above sea level and looking out to the Tasman Sea.

Mike's big EWE that is connected to the SDR is pointed to South America, which can also be switched to the west. Mike says he would like to reverse the big EWE to look at Japan and Asia after the Spring equinox.

Adcom have decided that the bequest received last year is to be used to help fund the establishment of this SDR plus two further SDRs in the South Island.

I encourage members to use these receivers, you belong to a club which perhaps is the only non-ham organisation in the world to provide these facilities for its members.

A couple of photos relevant to this appear on page 39

**Deadline for next issue is Wed 24th JUNE 2020. P.O. Box 178, Mangawhai 0540**

**CLOSING DATES FOR THE NEXT  
3 MONTHS 2020**

**July**            **Wednesday, 24th June**

**August**        **Wednesday, 29th July**

**September**   **Wednesday, 26th August**

**You can send your contributions to the  
NZ Radio DX League at  
PO Box 178  
Mangawhai 0540**

**or use the email or postal addresses  
given by the section sub-editors.**



*All images used in this magazine come from  
personal scans/ photos, station websites or  
via Google Images*

**Tune in with the DX League's SDR:**  
<http://russell-nzrdxl.proxy.kiwisdr.com:8073/>  
<http://opunake-nzrdxl.proxy.kiwisdr.com:8073/>  
You will need the password - write to  
[nzrdxldr@gmail.com](mailto:nzrdxldr@gmail.com) for details.

Life Member Ken Baird reports that Gayle van Horn's **A20 Global Radio Guide Ebook** is now available from Amazon, Australia for \$NZ17.29. (It arrives before you can log off the site) He has just downloaded it and it looks great!



The email address the screenshot above came from is:  
[https://www.amazon.com.au/Global-Radio-Guide-Summer-2020-ebook/dp/B087YRMYZS/ref=sr\\_1\\_2?crid=37MCIAIGBCRMW&keywords=global+radio+guide&qid=1588737753&sprifix=Global+Radio%2Caps%2C296&sr=8-2](https://www.amazon.com.au/Global-Radio-Guide-Summer-2020-ebook/dp/B087YRMYZS/ref=sr_1_2?crid=37MCIAIGBCRMW&keywords=global+radio+guide&qid=1588737753&sprifix=Global+Radio%2Caps%2C296&sr=8-2)

I had a look at the contents page and it is very comprehensive. There are a number of sdr reviews as well as in depth reviews of SW frequency - mHz by mHz. It looks a really good buy. Ken certainly recommends it.

---

Adam Claydon asks members to help support the DX League Facebook pages.  
They can be found at  
<http://www.facebook.com/nzrdxl>

## CONTENTS

<b>Musings</b> with Stu Forsyth	<b>6</b>	<b>Utilities</b> with Arthur de Maine	<b>36</b>
<b>Shortwave Bandwatch</b> with Ian Wells	<b>8</b>	<b>OTHER</b>	
<b>English in Time Order</b> with Yuri Muzyka	<b>12</b>	<b>Farewell to Rex Gillett</b>	<b>4</b>
<b>Shortwave Report</b> with John Durham	<b>13</b>	<b>X-Band List</b> by Tony King	<b>28</b>
<b>Broadcast News</b> with Bryan Clark	<b>17</b>	<b>Prized QSL from Grenada</b> by Bryan Clark	<b>29</b>
<b>SDR Report</b> with Dene Lynneberg	<b>32</b>	<b>Ladders and Continents</b> with Sutton Burtenshaw	<b>38</b>
<b>TV/ FM Report</b> with Paul Rawdon	<b>35</b>	<b>On the Shortwaves</b> by Jerry Berg	<b>40</b>

### NEW ZEALAND RADIO DX LEAGUE (Inc)

The New Zealand Radio DX League is a non-profit organisation founded in 1948 with the main aim of promoting the hobby of Radio DXing. The NZRDXL is administered by

**NZRDXL AdCom,  
P.O. Box 178,  
Mangawhai, 0540,  
NEW ZEALAND**

**Patron** Sutton Burtenshaw  
NZRDXLPatron@gmail.com

**President** Arthur DeMaine  
NZRDXLPresident@gmail.com

**Vice President** David Norrie  
NZRDXLVP@radiodx.com

**National Secretary** Steven Greenyer  
greenyerj@gmail.com

**National Treasurer** Bryan Clark  
NZRDXLTreasurer@gmail.com

**Chief Editor/Publisher** - Stu Forsyth  
NZRDXLChiefEditor@gmail.com

An annual subscription (magazine delivered in PDF format) of \$10 is available for New Zealand members.

**For international subscribers - \$10 NZD equivalent in your local currency.**

We prefer international members use **PayPal**. If you wish to pay by credit card, please use **Paypal's credit card payment option**. Contact Treasurer for more details.

For local members you can make payment to -  
Acct. name: NZ Radio DX League  
Acct. number: 12-3089-0286191-00  
Make sure your name is included  
Club Magazine  
The NZ DX Times. Published monthly.  
Registered publication. ISSN 0110-3636



Printed by Oamaru Print & Copy Ltd., Oamaru.  
<http://www.perfectprint.co.nz/>

© All material contained within this magazine is copyright to the New Zealand Radio DX League and may not be used without written permission (which is hereby granted to exchange DX magazines).

Where such permission is given, acknowledgement of the NZ DX Times and the original contributor is required.

Advertising Rates:

'Marketsquare' members advertising is FREE subject to available space.

Non Member and Commercial rates on request

## Farewell Rex Gillett

### REX GREGORY GILLETT – 1919-2020

Rex, one of two surviving foundation members of our club, died on 3 February this year, having achieved his 100th birthday on 16 October 2019.

Over the years South Australia has produced some great DXers – Jim Paris and Ern Suffock come to mind, also Adrian Petersen (of AWR fame) and Professor John Campbell. But for me, Rex Gillett was the one I knew best. When I began DXing and joined the DX League in 1961, I remember being impressed and stimulated by Rex' shortwave DX successes being reported in the 'NZ DX Times.

Later, I got to know Rex and his wife Gwen personally on several of their holiday trips to NZ. A few years ago, I began telephoning Rex for a chat at Christmas and was able to collect some snippets of his DX story. Even at the age of 98 he was a great storyteller with a sharp mind and a great sense of humour. He was still reasonably fit and walking without a stick or walking frame – he attributed this to clean living – being neither a smoker nor drinker. He and Gwen married in 1942 – Rex said she was very tolerant of his hobby. They were married for 65 years until Gwen died in 2007. Their 2 sons – John and David - were both civil engineers living in Geelong and Melbourne respectively.



Using an Aristone mantle radio purchased from Myers in 1939, Rex picked up the DX bug, hearing distant signals like Lord Haw Haw from Germany and Tokyo Rose from Japan. Rex remembered being fascinated by the weird station names on the Aristone dial and the odd sounding languages he could hear. He saw Arthur Cushen's name and station loggings in the 'Radio & Hobbies' magazine and this fuelled his interest in the hobby, together with his membership of the South Australian DX Club, where he got to know Ern Suffock and Jim Paris. Jim also taught Rex how to play tennis and they played together till the mid-1970s.

Rex began corresponding about the DX hobby with Arthur and, when DXers from Otago and Southland began publishing a 'DX Bulletin' in 1947 he was a contributor. When the NZ Radio DX League was formed in 1948, Rex was a foundation member. In later years he was a member of the Adelaide-based Southern Cross DX Club and later, DX Australia.

Rex' first shortwave QSL came from HCJB La Voz de los Andes in 1940. His DX was mainly concentrated in SW with prized QSLs including: COK Havana (1941 – a metal car

number plate received with QSL); WLKS, KURE, ZRB Transvaal 6210 (9 June 1943 – 2nd report from Australia), Radio Balikpapan, North Borneo, Netherlands East Indies 9125kHz 125 watts on 15 March 1946, Radio Tabriz 6090, Martinique 9705 (June 1946), Mexico 9917 (1946), Spanish Morocco (1947), Portuguese Goa 7230 (23 December 1948), Voz de Falange 7380 (1948 – their first DX report from Australia), KZBU Cebu Philippines (10 January 1948, the stations first report from overseas), YVKM Venezuela (1949), CHNX Halifax, Nova Scotia, Canada 6130, Windward Islands Broadcasting Service, St George Grenada 17745 (18 March 1956), Radio Mali (1964).

Rex did some DX listening on MW and his verifications included KSTP 1500 (1942); KFBK (September 1944); KOMO Seattle and KWSC Washington in 1945 (the KOMO verification quoted the time in “US Pacific War Time”), KOMA in March 1947; KFRE in March 1949 and KWKH 1130. But chasing shortwave QSLs was his passion.

Receivers that Rex used in later years included various Sony models (his last radio was an ICF7600DS) and a Barlow Wadley XCR30.

I remember Rex for his quality DX, particularly from Africa, his sharp wit and as a good friend – another of the fine Australian hobbyists who have made a contribution to the DX League over the past 70+ years. - *Bryan Clark*

From **Sam Dellitt** - I became aware of his passing through part of his QSL collection being dispersed to the four winds on Ebay currently.

The Ebayer says he purchased a number of binders of QSLs and box of letters at auction recently. Hopefully the majority have survived. (Better the four winds than the skip)

So pleased that he made it to 100, hope his final years were comfortable.

Rex was one of the true greats of Australian DXing, based in Adelaide, commencing pre WW2 and continuing till about 1990, I believe.

I only knew Rex by reputation, never got to meet him, mostly just recall that Harry Weatherley was in awe of his abilities.

A regular contributor to the “All Wave All World DX Club” of the Australasian Radio World during the war years, Australian Radio DX Club, Southern Cross DX Club supporter, DX Australia.

I seem to recall seeing his name in a magazine of the Shortwave League of Western Australia post WW2 (passed on by Ernie Moore).

I think there was a small SA based club in the early years (branch of the League?) Hope others have real memories to contribute.

**Paul Ormandy** comments - Very sad to hear Rex has passed away. Rex and Gwen stayed with us on one of their NZ trips 20+ years ago, they were delightful company and we didn't even talk about DX much!

# MUSINGS



Editor

Stu Forsyth  
Mangawhai

email:  
nzrdx@mailbag@gmail.com

Firstly, a note from our newest SDR host, **Mike Smith in Opunake**. It's been an exciting month with the SDR#2 arriving here ready to plug and play thanks to Mott & Ormandy Ltd! We discovered a troublesome noise level somewhere in my neighbourhood, maybe the two solar panel installations within 200 metres of the aerial. I've done a lot of experimenting with baluns and earthing, or lack of, and got the noise down a bit. Still not optimal and work in progress. We ended up not using the preamp for the sdr, just too much signal from the locals coming off the big ewe. Even now there is a considerable amount of break-through QRM after dark, so I will experiment with varying the coupling in the isolation transformer at the receiver end to try and reduce that without losing too many of the target signals. If members are happy I will change the antenna feeding the sdr as conditions dictate and put a note up on the DX Dialog group to advise. The current choices of antennae are the SSE ewe, a west ewe or an east ewe. I usually swap over to the west one in the late evening. Later in the year I'll reverse the SSE to NNW. I've also got a thought in mind to put up an aerial which can be used during the daytime to target the SW bands. Any suggestions on a suitable config from our Bandwatch brethren are welcome. I guess something balanced to get away from the local noise would be best. *[A fantastic asset to the League - both the device and you! I can now see what you meant when you talked about RBV (940 in Brazil) booming in. What a great location - it explains the quality of what was heard by your uncle Bill Woller and Robin Chambers].*

**Ken Baird in Wainuiomata** has sent this in: Over the recent Lev3 lock down period I have been doing some research on Random Wire antennas, as used by a lot of SWLs/Dxers. Most of us have three constraints:

- 1) Local council or neighbour's requirements/complaints.
- 2) Our partner's requirements to not cover the whole section with wire and ruin the "Visual Amenity" (a great town planning phrase).
- 3) Actual space available which these days can be limited.

I assume these reasons are why most listeners use one random wire to cover all frequencies of interest.

I recently obtained an e-book "Receiving Antennas for The Radio Amateur" by Eric Nichols, (KL7AJ) which included a section on random wires. Eric has had a long time interest in "Ham" antennas and was able to give good reliable info on the various types of HF antennas. He included a lengthy discussion on the random wire built for no specific frequency. Of interest, he has measured the impedance of typical wires and found that most random wires have an impedance of between 2500 and 5000 ohms! This is way beyond the normal wire antenna termination on older receivers (400 ohms). Hence, the use of a 9:1 Unun to match a random wire to a receiver is not terribly effective. He recommends a 49:1 or 69:1 Unun if required for a 50 ohm match. Modern PLL, DSP or SDR receivers can accept any input impedance because of the high sensitivity and design of their input. I notice most sellers of SDRs also sell 9:1 Ununs for some reason. He has transmitted using a random wire but had



severe matching problems, a bad SWR and did not recommend this.

I have tried to find the origin of the 400 ohm termination on older receivers, even going to the archives of the American Institute of Radio Engineers (Now part of IEEE) with no luck at all. Papers going back to 1910 had no info anywhere. I think it may have something to do with ladder feeders with a 400 ohm impedance which were common in the early years of radio transmission. It is also interesting to consider radios have a 50 ohm input, while TVs have a 75 ohm input, for some unknown reason.

Ken followed this up with a postscript: if anyone can provide background as to the 400ohm termination for wire antennas, I would be grateful to hear. *[So, those of you in the know let Ken know! - It can be sent to me and I will publish the answer.]*

El Presidente, **Arthur De Maine from Ashburton** makes a very welcome appearance. We are just back from five days at Jacks Bay (South Otago coast), seven weeks or more in lockdown was just too much we had to get away. Took the SDR and of course the Icom R-71E as backup plus eight 6ft bamboo sticks for erecting two EWE aerials. The house we stayed in overlooked the bay and had enough room to erect the two EWE, one pointing in a northerly direction and the other pointing south East. Nothing heard on medium wave on the south pointing one and very little on the other most disappointing. I managed some loggings on shortwave and managed to log a number of Utility stations. It appeared that my 3m high EWE aerials were not good enough for medium wave dxing or as I like to think conditions were not good. The location appeared to be a little noisy on certain parts of the medium wave band and several shortwave bands though I would like to try the location again with a higher and longer EWE. Will have to buy a slightly larger car though. As usual I enjoyed my time away dxing, if nothing else it was fun putting up aerials and pulling them down. It is also good to have a wife that understands the hobby and what I do when away from home with a radio. Stu I have ordered a tent for your next excursion south in case things are not finished, I checked the site. *[Oh joy - come on Steven - get that house onto the section!]*

**Life Member John Durham in Tauranga** says: A quiet month DX wise, a couple of reports out and two veries in from R Nordsee Inter. 6070kHz via Rhodorf and Ballsmacker Radio 6960kHz in the Nth East USA. Been trying to search out a email address for WDDR Drunken DJ Radio, but no luck as yet. He does verify using SSTV but that's not of great use to me at this stage. Interesting to note no sunspots for the last 27 days just wondering if I'm going to live long enough to witness an increase in activity. *[I seriously hope you do, John!!]*

Your **Chief Editor in Titirangi** has done some listening and has sent a report to Radio la 1010 in Montevideo, Uruguay and Radio Provincia de Santa Cruz 830. I have been marvelling at what can be heard on Mike's SDR. I also have a report for USGC in Ecuador, but need some more information. I have had veries via Messenger from LRA1 Radio Nacional, Buenos Aires 870 and KYNO 1430. This is turning out to be a bumper Latin season. Other seasons have been as good, no doubt, but the things is, more people now have the wherewithal to listen, hence more is being reported.



# BANDWATCH



**Editor**  
**Ian Wells**  
**Dunedin**

**email nzrdxlander9@gmail.com**

Now back to Level 2 and life's nearly normal again! Winter's nearly here as well, so plenty of time for the radio dials or SDRs. Thanks for your loggings, remember that all contributions are welcome, and there's plenty of room for more. Remember to show loggings as tentative if you don't get a clear ID, or if there's any doubt about the logging, and provide as much detail as you can, including the date and language heard, while keeping your notes concise.

SDR's used for your loggings are highlighted by these symbols appearing by the frequency:

- \* Northland #1 SDR (NNE direction)
- # Northland #2 SDR (SSE direction)

No symbol in the SDR column means you were using a real radio and your own aerial

<b>kHz</b>	<b>SDR</b>	<b>UTC</b>	<b>Country, Station, Programme, &amp; Reception Details</b>
3220	*	1836	NTH KOREA Pyongyang BS good w/non-stop music 12/5 SMF
3480	*	1838	STH KOREA Voice of the People exc in KK // 3910 & 3930 partly jammed 12/5 SMF
3480		1848	STH KOREA Voice of People (tent)singing 1900 utc Male in lang 1902 woman speaking. good 25/5 ABD
3930		1900	Voice of People (tent) Male and Female in lang fair 4450/6250 jamming, 6600. poor 25/5 ABD
3945	*	1842	VANUATU R Vanuatu tremendous signal in EE 12/5 SMF
4750	*	1911	INDONESIA, V of Indonesia fair in Dutch 17/5, KAB
4875	*	1023	BRAZIL R Dif Roraima good in PP well past local sunrise 13/5 SMF
4890	*	1846	STH KOREA Echo of Hope fair in KK, not jammed 12/5 SMF also 17/5 KAB
5040		0548	VANUATU/CUBA R Vanuatu good in EE w/US religious prgm, w/ Bislama translator over/mixed R Habana in EE. Both good signals till Cuba closed abruptly 0557:30 leaving Vanuatu w/perfect readability 15/5. BCM
5900		2015	BULGARIA Bro Stair via Kostinbrod fair in EE w/religion 8/5 BC
5910		1954	ROMANIA RRI fair in Ukrainian 6/5 BC
5945	*	1850	TURKEY VOT fair/noisy in EE 12/5 SMF
5995		1857	MALI ORTM domestic service fair in FF w/local music, nx 2000 f/out 2045 24/5. BCM
6005		1915	BULGARIA R Taiwan Int fair in FF 29/4 BC
6030		2002	ETHIOPIA R Oromiya fair w/local music 25/5 BC
6090	*	2022	UK/ETHIOPIA, KBS World R /R Amhara fair on same freq 14/5, KAB
6110	*	0214	NTH KOREA Voice of Korea fair in KK 14/5, KAB
6110		2005	ETHIOPIA R Fana fair in Oromo 20/5 BC
6130		1910	ESWATINI TWR Manzini fair in local language w/religion. 1919 id in PP then a different language. Freq measured as 6129.986. 11/5 BCM
6135	*	2110	CHINA/NTH KOREA, CRI in Croatian jammed by Nth Korea, poor 16/5, KAB



6155 0435 GERMANY AWR via Nauen good in FF 4/5 BDW  
6155 1903 SAO TOME BBC WS good in EE 2/5 BDW also 3/5 BC also 11/5 BCM  
6170 1904 GERMANY VOA Biblis poor in Kurdish // 7225 good 22/5. BCM  
6950 \* 0410 USA WDDR Drunken DJ Radio fair/good on USB in EE w/talk about  
how much he was drinking s/off 0532. QSL via SSTV 24/5 JD  
6960 \* 0410 USA NE US Ballsmacker Radio poor in EE s/off about 0430 16/5 JJD  
7225 \* 1505 CHINA CRI fair in Hindi 3/5 JM  
7245 0500 VATICAN NHK World Radio good in EE 3/5 BDW  
7290 1816 ROMANIA IRRS good in EE 2/5 BDW also 10/5 BDW  
7325 0853 PAPUA NEW GUINEA Wantok Radio Light back on air, poor in EE w/  
hymns & gospel songs. Measured at 7324.986 25/5 BCM  
7335 2042 CHINA CRI male and female in lang. fair to 24/5 ABD  
7345 0505 VATICAN BBC WS good in EE 3/5 BDW  
7350 \* 2015 CHINA CRI poor in FF to Europe 16/4 JM  
7360 \* 2015 VATICAN Vatican Radio fair in EE to Africa, FF from 2030 16/4 JM  
7360 2048 VATICAN Male speaking in French good signal 24/5 ABD  
7365 \* 0625 USA R Marti fair in SS (new freq) //7335 & 6030 16/4 JM  
7365 \* 1928 THAILAND, VOA poor, noisy in KK 17/5, KAB  
7375 2010 GUAM KSDA AWR poor in Russian 7/5 BDW  
7410 1540 IRAN VOIRI (tent) poor in EE 4/5 BDW  
7435 \* 1934 CHINA, CRI fair in Romanian, FAX interference 17/5, KAB  
7465 1750 SINGAPORE BBC WS fair in Dari 10/5 BC  
7485 1820 SINGAPORE BBC WS good in EE 2/5 BDW  
7730 0815 USA WRMI VORW Radio International Music requests from around  
United States ID "VORW Radio International 0830 Male talking about  
Covid-19 testing. fair to good 26/5 ABD  
7890 0755 UNID Male talking FF big fades 26/5 ABD  
9420 \* 0347 GREECE, Helliniki Radio excellent in Greek 9/5, KAB  
9420 2010 GREECE Voice of Greece woman with ID, music, singing good signal  
25/5 ABD  
9420 \* 0945 CHINA CNR-6 fair in Hakka to Taiwan 25/4 JM  
9490 1620 ARMENIA AWR fair in EE with Wavescan prgm 3/5 BDW  
9530 \* 0945 CHINA CNR-11 fair in Tibetan // 11685 & 15570 16/4 JM  
9545 0452 SOLOMON IS SIBC Woman with time ten minutes to four and  
mentioned both World Wars. ABC news at 0500 and off air 0502 26/5  
ABD  
9560 \* 0356 MADAGASCAR NHK World Radio excellent in Swahili 9/5, KAB  
9620 \* 0850 CHINA CNR-2 fair in CC 2/5 JM  
9665 \* 0855 NORTH KOREA KCBS fair in KK 2/5 JM  
9695 \* 0920 ALASKA KNLS fair in RR 24/4 JM  
9760 \* 2325 SAUDI ARABIA, BSKSA weak in Turkish 18/5, KAB  
9770 \* 0840 SOUTH KOREA KBS poor/fair in EE to Asia 24/4 JM  
9780 2010 GERMANY AWR VG in FF 7/5 BDW  
9790 2028 FRANCE RFI fair in FF 2/5 BC  
9790 0445 FRANCE, RFI two males talking F/F very good 26/5 ABD  
9795 \* 0830 JAPAN NHK World Radio fair in JJ for South America 17/4 JM  
9800 2039 ENGLAND World's Last Chance fair in EE religion 2/5 BC  
9825 0435 USA, WHRI EE woman talking midwives, relig prog vg 26/5 ABD  
9835 \* 0750 SARAWAK, R Malaysia fair in Malay, relay FM prgm 10/4 JM

9910 \* 1145 GUAM KTWR fair in CC 17/4 JM  
 9915 0425 MADAGASCAR, BBC WS woman talking Covid-19 and talking about Turkey, very good 26/5 ABD  
 9920 2042 THAILAND R Thailand good in EE w/news 22/5 BC  
 11710 \* 0935 CHINA CRI fair in EE via Xian-Xianyang 25/4 JM  
 11730 \* 0300 CHINA CRI fair in Nepali // 13780 1/4 JM  
 11770 \* 0230 CHINA CRI fair in EE to Asia 1/4 JM  
 11780 \* 0210 BRAZIL R N de Amazonia poor in PP w/music 1/4 JM also 13/5 BCM  
 11825 0340 ROMANIA RRI good in EE talk & local music 16/5 BC  
 11825 1806 ROMANIA RRI fair in EE 7/5 BDW  
 11845 \* 0200 CHINA CNR-2 fair in CC 1/4 JM  
 11860 \* 0150 CHINA CRI fair in Nepali // 13780 1/4 JM  
 11860 \* 2030 USA R Marti fair in SS 8/4 JM  
 11865 \* 2145 NTH KOREA. Voice of Korea good in JJ w/ID 16/5, KAB  
 11870 \* 1415 SRI LANKA AWR fair in CC for Far East 2/5 JM  
 11910 \* 1405 CHINA CRI fair in RR 2/5 JM  
 11935 \* 1120 CHINA CRI fair in RR via Shijiazuang 25/4 JM  
 11945 \* 0130 CHINA CRI fair in Amoy 27/4 JM  
 11950 \* 1350 ROMANIA RRI poor/fair in Romanian 2/5 JM  
 11955 1650 AUSTRIA AWR fair in Persian 2/5 BC  
 11955 1930 GERMANY AWR fair in Tachelhit 4/5 BDW  
 11965 \* 1110 GUAM KTWR good in EE, close 1140 17/4 JM  
 11965 \* 1340 TURKEY VOT fair in RR for Eastern Europe 2/5 JM  
 12015 \* 0630 VATICAN BBC WS relay fair in EE until close 0700 10/4 JM  
 12020 \* 1230 VIETNAM VOV fair at s/on in EE 31/3 JM  
 12030 2040 SPAIN REE good in SS 3/5 BC  
 12035 \* 0110 THAILAND Deewa Radio/VOA fair in Pashto 27/4 JM also 2/5 KAB  
 12050 \* 2205 USA WEWN fair in SS 1/4 JM  
 12055 \* 0715 CHINA CNR-17 fair in Kazakh // 11630 10/4 JM  
 12100 \* 1125 TAIWAN RTI fair in EE 10/4 JM  
 13580 \* 0305 ARMENIA, BBC WS vg in Pashto 9/5, KAB  
 13760 \* 0333 MADAGASCAR, KNLS good in EE religion ID & reference to Facebook 9/5, KAB  
 15145 \* 1200 SINGAPORE BBC WS poor/fair in EE 18/4 JM  
 15220 \* 1145 CHINA CRI fair in RR until off 1157 31/3 JM  
 15230 \* 0740 CHINA CRI fair in Cantonese 10/4 JM  
 15245 \* 2123 NTH KOREA, V of Korea good in EE with Sked, ID, light mx, 16/5, KAB  
 15390 \* 0720 CHINA CNR-13 fair with Uighur service // 13700 18/4 JM  
 15400 \* 0700 MADAGASCAR BBC WS poor/fair in Talata 18/4 JM  
 15610 \* 2129 USA WEWN good in EE with relig prgm & ID 11/4 JM also 16/5, KAB  
 15770 \* 2127 USA, WRMI Overcomer good in EE with Freq Sked & ID 16/5, KAB  
 17880 \* 0335 THAILAND, R Azadi (R Free Afghanistan) good in Pashto 17/5, KAB

Please add the appropriate symbol by the frequency if you heard the station using one of the New Zealand-based SDRs. If you've heard it using an SDR, others may also be able to, and it's all DX.

## Local Contributors

<b>ABD</b>	Arthur De Maine	Jacks Bay	Elad FDM-S2 SDR with 3m EWE pointing north
<b>BC</b>	Brian Carr	Christchurch	AOR AR-5000 & Kenwood R5000, EWE & longwire
<b>BCM</b>	Bryan Clark	Mangawhai	WinRadio G33DDC Excalibur Pro SDR & AOR7030+ EWEs to Nth, Central & Sth America.
<b>BDW</b>	Brian Webb	Upper Hutt	DE-1103 & AR-1733 with whips
<b>JD</b>	John Durham	Tauranga	Using the League's Northland NNE SDR
<b>JM</b>	John Mainland	Wellington	Using the League's Northland NNE SDR
<b>KAB</b>	Ken Baird	Wainuiomata	Using the League's Northland NNE SDR
<b>SMF</b>	Stu Forsyth	Titirangi	Using the League's Northland NNE SDR

## Overseas Loggings

<b>Freq</b>	<b>Time</b>	<b>Details</b>
9555	2217	SAUDI ARABIA BSKSA fair in AA 20/5 RDA
9700	0013	VATICAN R Veritas Asia relay fair in Kachin language closed 0028 13/5 RDA
11530	2032	FRANCE Denge Welat relay fair in Kurdish until off 2100 10/5 RDA
11830	1855	FRANCE Dandal Kura poor at closing in Kanuri language 16/5 RDA
15555	1710	USA WJHR Milton, FL poor/fair in EE w/religion 6/5 RDA

## Overseas Contributors

<b>RDA</b>	Rick D'Angelo	Wyomissing, PA, USA	Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4
------------	---------------	---------------------	--

Contributions to this column may be sent to [nzrdxlunder9@gmail.com](mailto:nzrdxlunder9@gmail.com) or direct to the editor, Ian Wells, at [iwellsnz@gmail.com](mailto:iwellsnz@gmail.com) or via snail mail to my **NEW ADDRESS**, 7 Glenmirrie Close, Mosgiel 9024.



# ENGLISH IN TIME ORDER

Editor

Yuri (George) Muzyka  
Auckland

email  
nzrdxleto@gmail.com



Time Order summary of Shortwave Bandwatch column. For station transmitter sites please refer to the Bandwatch columns. Please remember to include the date and signal strength with all your loggings and send them to the column editor, thanks.

The Solar Flux is aired daily over WWV/WWVH on 2.5, 5, 10, 15 and 20 MHz Shortwave at 18 & 45 minutes past every hour.

\*\*\*SIGNAL STRENGTHS\*\*\* e = Excellent; g = Good; f = Fair; p = Poor.

73 - Yuri, ZL1GYM

## NEW ZEALAND CONTRIBUTIONS

Time (UTC)	Frequencies (kHz)	Station Name	Station Country	Log Date	DXer Name
0230	11770f	CRI	CHINA	1-Apr	JM
0333	13760g	KNLS	ALASKA	9-May	KAB
0340	11825g	RRI	ROMANIA	16-May	BC
0435	9825g	WHRI	USA	26-May	ABD
0500	7245g	NHK World R	JAPAN	3-May	BDW
0505	7345g	BBC WS	UK	3-May	BDW
0548-0557	5040g	R Habana	CUBA	15-May	BCM
0548-0557	5040g	R Vanuatu	VANUATU	15-May	BCM
0630-0700	12015f	BBC WS	UK	10-Apr	JM
0840	9770f	KBS	STH KOREA	24-Apr	JM
0853	7325p	Wantok Radio Light	PNG	25-May	BCM
0935	11710f	CRI	CHINA	25-Apr	JM
1110-1140	11965g	KTWR	GUAM	17-Apr	JM
1125	12100f	RTI	TAIWAN	10-Apr	JM
1200	15145f	BBC WS	UK	18-Apr	JM
1230	12020f	VOV	VIETNAM	31-Mar	JM
1540	7410p	VOIRI	IRAN	4-May	BDW
1620	9490f	AWR	USA	3-May	BDW
1806	11825f	RRI	ROMANIA	7-May	BDW
1816	7290g	IRRS	ITALY	10-May	BDW
1816	7290g	IRRS	ITALY	2-May	BDW
1820	7485g	BBC WS	UK	2-May	BDW
1842	3945e	R Vanuatu	VANUATU	12-May	SMF
1850	5945f	VOT	TURKEY	12-May	SMF
1903	6155g	BBC WS	UK	11-May	BCM
1903	6155g	BBC WS	UK	2-May	BDW
1903	6155g	BBC WS	UK	3-May	BC
2015-2030	7360f	Vatican Radio	VATICAN CITY	16-Apr	JM
2039	9800f	World's Last Chance	USA	2-May	BC
2042	9920g	R Thailand	THAILAND	22-May	BC
2123	15245g	Voice of Korea	NTH KOREA	16-May	KAB
2127	15770g	WRMI Overcomer	USA	16-May	KAB
2129	15610g	WEWN	USA	11-Apr	JM
2129	15610g	WEWN	USA	16-May	KAB

# SHORTWAVE REPORT

Editor

John Durham

Tauranga

email

nzrdxshortwave@gmail.com



## ARMENIA

Very good signal of Trans World Radio TWR India via Yerevan, May 23 1315-1415 on 11590 ERV 300 kW / 100 deg to SoAs various Indian langs, incl. Hindi & 1415-1445 on 11590 ERV 300 kW / 100 deg to SoAs English Sat/Sun; 1420-1424 Mon-Fri (Via HCDX SWLDXBulgaria News May 23 part 2 (publications №24435-№24444))

Reception of Iran International TV on new 11550 kHz May 20 1200-1400 on 11550 ERV 100 kW / 100 deg to N/ME Persian, weak/fair signal

And now Bible Voice Broadcasting has moved to new 11540+STANAG, ex 11550:1300-1329 NF 11540 DB 100 kW / 071 deg to EaAs English/Korean as follows 1300-1329 English Mon-Wed;1300-1315 English Fri;1300-1329 Korean Sat/Sun (Via HCDX & swldxbulgaria. blogspot.com/2020/05)

## BRAZIL

4885, Radio Clube do Pará, Belem, 0455-0605, 27-05, only carrier detected in Lugo, via SDR Kiwi remote receiver in Pardiniho, near Sao Paulo fear signal, relaying Radio Bandeirantes program: , “Você esta ouvindo a Radio Bandeirantes de Sao Paulo”,. “Bandeirantes”, at 0500 news “Radio Bandeirantes, noticias”, news, sport news. The 4885 program matches with Radio Clube do Pará online program. Checked later via Pardiniho, at 0830 on air with its Radio Clube own programs, id. “Radio Clube do Pará”, “Horóscopo”.

No signal or extremely weak in other SDR Kiwi remote receivers in Brazil.

This station could be heard with fair to good signal here in the north west of Spain few months ago, but now it is very difficult to hear it, seems to be on air with very low power. (Via HCDX Manuel Méndez Lugo, Spain 27/05)

## CONGO

6210.2, Radio Kahuzi, Bukavu, 1740-1812\*, 23-05, on air after more than a week out. Extremely weak. Carrier and approaching to closing time, some comments and songs detected on LSB. Barely audible (Via HCDX Manuel Méndez Lugo, Spain Log in Friol)

6115 Radio Congo with exceptional reception ! 0543-0553 UT on May 17. A rare event here, with well above average reception; announcers and nice African music/singing; somewhat early for any Japanese QRM here, which started to be slightly noticed about 0550 UT; QRN (static).

An exceptional day! (Via (Ron Howard-CA-USA, hcdx & wor May 17)

## **ETHIOPIA**

5950, Voice of Tigray Revolution, Addis Ababa, 0412-0423, 23-05, Vernacular, comments. 25322.

6030, Radio Oromiya, Addis Ababa, 0400-0410, 24-05, East African songs, Vernacular, comments. 23322.

6090, Voice of Amhara State, Addis Ababa, 0427-0445, 23-05, East African songs, Vernacular, comments. 25322.

6110, Radio Fana, Addis Ababa, 0405-0435, 23-05, East African songs, Vernacular comment. 24322. (Via Manuel Mendez. Lugo Spain)

## **EQUATORIAL GUINEA**

5005, \*0514-0523, 22-05, songs. Very weak, barely audible. 15311.  
Also heard \*0515-0524, 23-05, open with songs. Extremely weak, barely audible. 15311.  
Also heard, \*0504, 24-05, open with songs, song "My Heart Will Go On" by Celine Dion  
(Via Manuel Mendez. Lugo Spain)

## **GREECE**

Mix between Voice of Greece 1st/2nd pxs & Ext.Sce on 9420 kHz May 20  
from 0500 on 9420 AVL 150 kW / 323 deg to WeEu Greek tx#3 VOG First program,  
from 0600 on 9420 AVL 150 kW / 323 deg to WeEu Greek tx#3 VOG Second program  
from 0657 on 9420 AVL 150 kW / 323 deg to WeEu Arabic tx#3 VOGreece Ext.Sce,  
from 0702 on 9420 AVL 150 kW / 323 deg to WeEu Greek tx#3 VOGreece with news  
from 0706 on 9420 AVL 150 kW / 323 deg to WeEu NO SIGNAL tx#3 is not on air  
(Via HCDX & swldxbulgaria.blogspot.com/2020/05)

## **SPAIN**

REE relay Radio Nacional de España on four frequencies May 24  
1400-2200 on 9690 NOB 200 kW / 290 deg to ENAm Spanish Sat/Sun, fair  
1400-2200 on 11670 NOB 200 kW / 161 deg to WCAf Spanish Sat/Sun, weak  
1400-2200 on 11940 NOB 200 kW / 230 deg to SoAm Spanish Sat/Sun, good  
1400-2200 on 12030 NOB 200 kW / 110 deg to N/ME Spanish Sat/Sun, Good  
(Via HCDX swldxbulgaria.blogspot.com/2020/05)

## **SUDAN**

7205.0, Sudan Radio, Al Aitahab, after days on 7206.0, yesterday afternoon still on 7206.0,  
today at 0445, 22-05, on its usual 7205.0 frequency, Arabic comments and East African  
songs. 25322  
(Via HCDX Manuel Méndez. Lugo, Spain )

## **TANZANIA**

6015, Zanzibar Broadcasting Corporation, Dole, 0345-0410, 23-05, Swahili, comments. 25432. Also 0350-0515, 24-05, Swahili, comments. 15421 (Via HCDX Manuel Mendez. Lugo Spain)



## THAILAND

Reception of VOA Learning English via Udorn Thani on May 24  
1130-1200 on 9350 250 kW / 297 deg to SEAs English Sat/Sun\*, very weak  
1130-1200 on 12030# 250 kW / 300 deg to SEAs English Sat/Sun\*, very weak  
\* on same time & same frequencies is Voice of America Rohingya Sce Mon-Fri.  
# same time 12030 NOB 200 kW / 110 deg to N/ME REE open carrier dead air  
(Via HCDX swldxbulgaria.blogspot.com/2020/05)

## UNITED ARAB EMIRATES

NHK World Radio Japan via ENC-DMS Al-Dhabayya on May 21: 1515-1545 on 11775 DHA  
250 kW / 060 deg to SoAs Urdu weak/fair, incl. 1516-1530 on 11775 DHA 250 kW / 060 deg  
to SoAs English news bulletin. Via HCDX & swldxbulgaria.blogspot.com/2020/05)

## UZBEKISTAN

Reception of Pan American Broadcasting via MBR Frequency Organisation Cologne, via  
Telecom Tashkent Uzbekistan radio bcast center on May 10

1630-1730 6155 TAC 100 kW 163 deg to SoAS English Sun Tony Alamo, weak/fair  
1630-1730 7425 TAC 100 kW 90 deg to CeAS English Sun Tony Alamo, very weak

11510 Radio Free North Korea, via Tashkent, Korean language, April 18.  
Female and male announcers, talk about North Korea. 25432 Tx w/78? to  
North Korea D.P.R.  
(Ivo Ivanov-BUL, direct and hcdx via wwdxc BC-DX Topnews May 10)

Radio Ranginkaman / Rainbow via RRTM Telecom Tashkent, May 12  
1630-1700 7600 TAC 100 kW 236 deg to WeAS Farsi R. Rainbow, weak to fair  
(Ivo Ivanov-BUL, direct and hcdx via wwdxc BC-DX Topnews May 12)

FEBA/IBRA Radio via ENC-DMS RRTM Telecom Tashkent, May 22  
1500-1530 9390 TAC 100 kW 131 deg to SoAs Bengali, good + wideband DRM.  
(Ivo Ivanov-BUL, direct and hcdx via wwdxc BC-DX Topnews May 22)

NHK World Radio Japan via ENC-DMS RRTM Tashkent on May 21:  
1530-1600 on 9600 TAC 100 kW / 163 deg to SoAs Hindi fair/good, incl.  
1531-1545 on 9600 TAC 100 kW / 163 deg to SoAs English news bulletin,  
(Via HCDX swldxbulgaria.blogspot.com/2020/05)

## VATICAN STATE

Voice of America via Santa Maria di Galeria, May 27  
0459-0500 on 12070 SMG 250 kW / 184 deg to WCAf unknown language & 0500-0530 on  
12070 SMG 250 kW / 184 deg to WCAf Hausa, fair Signal  
(Via swldxbulgaria.blogspot.com/2020/05)

## SHORTWAVE NEWS

### TEXAS RADIO SCHEDULE FOR JUNE – DECEMBER 2020 GULF OF MEXICO, May 29, 2020

Texas Radio Shortwave, an American free radio station, today announced its formal broadcast schedule for the rest of 2020. These broadcasts are aimed at European listeners and usually will feature music by Texas artists. The first three programs will highlight Buddy Holly, Willie Nelson, and Roy Orbison.

Channel 292 in Germany will transmit the hour-long programs at 0900 UTC on 6070 kHz with a power of 10 kW. Broadcasts are scheduled on the third Saturday of each month. Those dates are June 20, July 18, August 15, September 19, October 17, November 21, and December 19.

**Channel 292** will broadcast a special program at 1900 UTC on December 25, 2020, on the same frequency.

Texas Radio Shortwave will schedule programs on other dates, times, and stations to reach listeners in North America and Europe.

Texas Radio Shortwave verifies 100 percent of all correct, detailed reception reports. The Station often issues special, limited-edition eQSLs for its programs.

Reception reports must include times, song titles, the text of announcements, a SINPO/SIO Signal rating, information on receiver and antenna, and comments on the program content. Listeners using remote software-defined receivers (SDRs) should mention that. Texas Radio Shortwave would like to receive audio clips of the broadcasts along with the detailed reports. Reports should be sent to [texasradiosw@gmail.com](mailto:texasradiosw@gmail.com).

Texas Radio Shortwave is located on a ship anchored in the Gulf of Mexico off the South Texas coast. Its programs are broadcast in North America and Europe.  
(Via HCDX 30/05)

#### **Radio Sylvia via Radio 292 6070kHz Sat 06 June 1600-2100**

Radio Sylvia is run by a dedicated team of long-time radio and music enthusiasts and can look back on an eventful history. After its foundation in July 1977, the station broadcast for years as a pirate on FM as well as long, medium and short wave. In January 2009 we returned and now send legally from our studios in Hamburg via Internet and shortwave.

Our goal has always been (and still is) a musical alternative to the ubiquitous musical uniformity.

Postal address: Radio Sylvia, P.O. Box 90 23 49, D-21057 Hamburg  
Correct reception reports sent to our postal address will be verified with a Radio Sylvia QSL card; please enclose sufficient return postage. Furthermore, we verify correct e-mail ([info@radiosylvia.de](mailto:info@radiosylvia.de)) reception reports with our eQSL. (Via Radio Sylvia website)

# BROADCAST NEWS

Editor

Bryan Clark  
Mangawhai

email  
nzrdxlbroadcast@gmail.com



## LEAGUE SDR2 RELOCATED TO OPUNAKE – OPENS UP EXCITING SOUTH AMERICAN DX OPPORTUNITIES FOR MEMBERS

### ALASKA

- 560 KVOK Kodiak license cancelled at licensee's request per letter to FCC May 7; station had been silent since May 7, 2019. (NRC)
- 820 KCBF Fairbanks applies to extend STA, U1 10kw/10kw from KFAR-660 site. (NRC)
- 910 KIYU Galena license cancelled at licensee's request on May 4. (NRC)
- 960 KABN Kenai has been granted modification to its CP, now U1 1kw/1kw. (NRC)

The license for KIYU 910 Galena has been officially handed in and deleted. Big River Public Broadcasting has largely had it off much of the last 12 years or so. You can apply for Class D FM licenses in Alaska at anytime without waiting for a filing window and that's what big River did because KIYU 910 was not on the power grid and fuel was US\$6-7 a gallon for the generator to power the AM transmitter. They'd spent many years trying to economically find ways to revive it and keep it on the air, but even with a financially responsible and technically capable GM, they weren't able to do it. I was a small part of the team that tried to help revive it. The AM covered 30-40 miles by day and maybe a bit farther at night. Now they have 11 Class D FM licenses. To give you an example of how small some of these villages are, 50 Watts at 387 feet more than covers the village the transmitter is in. The FM transmitter sites are at health clinics, fire departments, town halls, etc with an fm transmitter, a box specifically made to receive an internet feed and satellite internet. I credit former GM Brian Landrum with helping get KIYU into the sound technical and financial shape it's in today. He was my boss while I was there and that was one of my most rewarding and challenging jobs I ever had while also being a fun learning experience. (Paul Walker Jr via IRCA IO Groups via Mike Sanburn & Jon Pearkins)

**ARGENTINA** The Directory of the National Communications Ente (ENACOM) has authorized the National University of Villa María (UNVM) to operate on 1400 KHz with a daytime power of 1 Kw and a night power of 0.25 Kw, in the city of Villa María, Province of Córdoba, assigning the distinctive signal LRJ-216. UNVM already had an authorization to operate on the FM frequency of 106.9 MHz, identifying as " Radio FM University ", which went on air on 6 December 2011, with studios on Boulevard Espana 210 in the city of Villa María, Province of Córdoba, Tel: (0353) 461-0048, E-mail: info@fmuniversidad.com.ar Website: www.fmuniversidad.com.ar (Argentina en AM y FM Facebook page 10May20)

**AUSTRALIA** SENTrack will be opening their radio station in Brisbane on 1053kHz on 7 September. Currently Vision Christian Radio programming is being carried on 1053kHz. (Ian Baxter via MWMasts io Group)

**CANADA** (via IRCA DX Monitor and Jon Pearkings IRCA)

- 580 CFRA Ottawa ON verified by prepared card, signer Rick Furniss, Engineering [VE3IHJ]; 87 George St, Ottawa ON K1N 9H7 (Nigel Pimblett IRCA)
- 580 CHAH Edmonton AB (CP) Advertising for a full range of staff, including Hindi and Punjabi announcers, was suspended in mid-March due to government COVID-19 guidelines that hindered the face-to-face nature of Hiring and Training. Owner 1811258 Alberta Ltd. currently has a license requiring that they be on the air by Jan 21 2021, sharing CBX-740's towers with 10KW full-time.
- 600 CKSP Vancouver BC - Engineers report a one to two month delay in initial on-air testing due to unspecified technical issues.
- 1220 CFAJ St Catharines ON - Radio Dhun Inc now has until 20 October 2020 to complete testing, after they requested, and were granted, an extension due to potential COVID-19-related delays in the construction and equipping of studio facilities, after falling behind on tower installation. Power during initial testing, which began in mid-February, has been confirmed as 1KW non-directional. No word yet on full 10KW directional testing. A Classic Hits format, covering music from 1970 to 2010, is still planned, but the license does allow up to 15% non-English programming. The station was originally licensed April 2016.  
Noted testing at 1130 UTC on 10 April with oldies and CFAJ ident by Jim in Springfield MA. (Mike Sanburn via IRCA)
- 1450 CHOU Montreal QC is still Arabic language programming under the new "Middle East Radio" branding shared with CHOU-1-FM Montreal and CHHU-FM Halifax NS. Previously, they had used the French equivalent, "Radio Moyen-Orient". Their website is now meradio.ca.

**GUAM** KUAM Agaña 630 went silent on 1 May 1 due financial reasons. (NRC)

**HAWAII** (items from National Radio Club's 'DX News' bulletin)

- 670 KPUA Hilo granted STA extension, U1 1kw day & night.
- 690 KHNR Honolulu granted STA, U1 5kw/5kw to save money during COVID-19.
- 760 KGU Honolulu granted STA, U1 5kw/5kw to save money during COVID-19.
- 1060 KIPA Hilo went silent May 12, due wild power fluctuations in transmitter.
- 1210 KZOO Honolulu has added FM relay K292HM-106.3. (FCC)

**PHILIPPINES** The Association for International Broadcasting is dismayed by the forced close-down of multiple award-winning broadcaster ABS-CBN in the Philippines. The closure, on 5 May, follows the failure of the media regulator in the Philippines to renew the operating franchise of the broadcaster, the oldest television network in south-east Asia. The 25-year franchise expired on 4 May. Despite following the renewal procedure and gaining extensive support by politicians in the country, ABS-CBN has not managed to conclude an agreement to continue operating its broadcast services on radio and television. "This is a bad day for the Philippines, a bad day for Filipinos and a bad day for media freedom," says Simon Spanswick, chief executive of the AIB. "ABS-CBN is one of the Philippines' prime providers of news, information and entertainment, reaching almost the entire 106 million population. Its programmes are award-winning domestically and internationally, recognised by judges in our own annual awards as the best in class as well as in other competitions. To remove a country's most-watched TV news broadcaster during a global pandemic where reliable news, information and advice are essential for citizens' wellbeing is an appalling misjudgement." President Duterte has regularly criticised ABS-CBN, accusing it of bias against his presidency. The broadcaster denies this. The failure to renew the franchise is seen by many observers

as a direct political attack on the network. "The closure is a direct attack on free media in the Philippines," continues Simon Spanswick. "The failure of the authorities and Congress in the Philippines to renew the franchise in a timely manner and in accordance with the country's legislative framework sends a chilling message to anyone in the media in the Philippines: Duterte's government will do anything to prevent free speech and to stop it from being held to account." (<https://aib.org.uk/aib-news-desk/> via Glenn Hausers WOR IO Group) [According to Wikipedia, the NTC gave ABS-CBN 10 days to explain why its frequencies should not be recalled. The station officially signed off on 8 pm, local time. Stations impacted include DZMM 630, DYAP 765, DXAB 1296 and DYAB 1512. BC]

#### **PUERTO RICO** (items from National Radio Club's 'DX News' bulletin)

- 580 WKAQ San Juan granted STA extension, U1 10000/4500.
- 910 WPRP Ponce granted CP for U1 4.25kw day & night, new site (diplexed with WLEO-1170) at 17-58-52/66-36-49.
- 940 WIPR San Juan granted STA extension, U1 2500/2500 from WKAQ-580 tower.
- 1200 WGDG Lares granted STA extension, U1 1kw/1kw (as in longstanding CP APP).
- 1430 WNEL Caguas granted STA extension, U1 2300/2300, from shorter tower.

#### **USA** (items from NRC's "DX News" magazine)

- 570 WNAX Yankton SD granted STA extension, U1 5000/1250 or parameters at variance.
- 570 WTBN Pinellas Park FL granted STA extension, U1 1250/1250.
- 590 KUGN Eugene OR granted STA, U4 5kw night power, night pattern used 24 hours.
- 630 KIDD Monterey CA applies to extend STA, U1 300/250 from KNRY-1240 tower.
- 630 KIDD Monterey CA went silent 8 Apr, loss of advertising revenue due to COVID-19.
- 720 KDWN Las Vegas NV applies for license to cover CP for U2 25kw/7.5kw, new site (diplexed with KXST-1140) 36-16-04/115-02-42.
- 860 KTRB San Francisco CA granted STA extension, U1 50/5kw from licensed day site.
- 880 KHAC Tse Bonito NM now part of 'Across Nations Mission' Group. (Wayne Heinen)
- 890 KDXU Saint George UT slogan to "News 94.9 & 890," carries Fox News & Coast to Coast AM (Wayne Heinen)
- 910 KECR El Cajon CA applies for STA, U4 3638/5000, night pattern 24 hours.
- 920 KARN Little Rock AR applies to extend STA, U1 1250/1250.
- 930 WFXJ Jacksonville FL slogan to "930 The Game," delete // W247CF-97.3.
- 950 WORL Orlando FL granted STA extension, U2 12000/10000, Cuba QRM.
- 980 KICA Clovis NM format to Farming, Talk & Sport; networks to ABC and Fox Sports Radio. (Wayne Heinen)
- 1050 KTCT San Mateo CA granted STA extension, U4 50000/35000, Mexico QRM.
- 1060 KTNS Oakhurst CA format to SS:Ranchera (ex-SS:MEX); slogan to "La Mexicana."
- 1080 KSCO Santa Cruz CA slogan now "Red Hot News-Talk" (Bill Hale)
- 1080 WQOS Coral Gables FL granted STA extension, U4 50000/20000, Cuba QRM.
- 1090 KBOZ Bozeman MT granted STA, U1 5000/1250, silent station needs to broadcast.
- 1130 KSDO San Diego CA granted STA extension, U1 2.5kw day & night, using drop wire at KLSD-1360 site, 32-43-51/117-04-59.
- 1240 KNRY Monterey CA silent 8 April due loss of advertising revenue due COVID-19.
- 1250 KKDZ Seattle WA granted STA extension, U1 5000/1250 from licensed day site.
- 1260 KSUR Beverly Hills CA using slogans "K Surf" and "L.A. Hits." (Wayne Heinen)
- 1270 KGAY Thousand Palms CA granted STA, U4 200/200 during transmitter work.
- 1290 KAZA Gilroy CA granted STA extension, U1 1500/19 from KZSJ-1120 tower.
- 1300 WFFG Marathon FL granted STA, U1 300 watts day & night using portable generator,

needs to broadcast to maintain license and power on the (uninhabited) island is gone.

- 1310 WTLC Indianapolis IN is testing with all-digital signal.
- 1310 KTCK Dallas TX now carrying Fox Sports Radio.
- 1320 KWHN Fort Smith AR – Networks to A/Ar/CMP/Ru/P/DR/WW1/C2C.
- 1340 KOMY La Selva Beach CA now part of “Red Hot News-Talk” Group.
- 1370 KWRM Corona CA went silent on 14 April; has lost licensed tower site.
- 1370 KFRO Longview TX applies for CP with U1 1000/100, from existing site.
- 1370 KXTL Butte MT granted STA, U2 1000/1000, transmitter problems.
- 1430 WEEF Deerfield IL applies for CP with U4 1600/1020, existing site.
- 1430 WLTG Panama City FL applies to extend STA, U1 1250/1250.
- 1450 KBKW Aberdeen WA has joined “The Talk of Gray’s Harbor” group.
- 1460 WQOP Jacksonville FL granted STA extension, U2 5000/5000.
- 1470 KUTY Palmdale CA applies for CP with U2 3500/180, new site (diplexed with KOSS-1380) at 34-42-43/118-10-34.
- 1470 KLCL Lake Charles LA granted STA ext., reduced day power (using U1 3750/500).
- 1520 KOKC Oklahoma City OK granted STA extension, U1 10kw day & night at 35-20-01/97-30-18.
- 1540 KXPA Bellevue WA granted STA extension, U1 5kw days/1.25kw night.
- 1550 KXEX Fresno CA new format is NWS/TLK, slogan “Talk Radio 1550”.
- 1590 KLIV San Jose CA applies for CP with U2 6200/5000, diplexed with KVVN-1430 at new site 37-19-47/121-51-58.

**USA** (Items from International Radio Club of America’s ‘DX Monitor’)

- 690 KOLT Terrytown NE format was classic country, now news/talk.
- 840 KXNT North Las Vegas NV verified by email in 1 day from Paul Ihander, Brand Manager; paul.ihander@entercom.com (Martin Foltz)
- 890 KJME Fountain CO has new slogan “890 Yesterday”.
- 950 WROL Boston MA now uses slogan “950 AM and 100.3 FM The Spirit of Boston”
- 970 WNNR Jacksonville FL format now regional Mexican, “La Raza 92.9”
- 1140 KXST North Las Vegas NV E-QSL from Paul Ihander, Brand Manager; paul.ihander@entercom.com in 1 day. (Martin Foltz)
- 1250 WGL Fort Wayne IN reactivated w/adult hits, slogan “103.9 Wayne FM”
- 1270 WJMC Commerce GA reactivated w/classic country, slogan “Whisperin’ 95.1 FM 1270 AM”
- 1270 KDJI Lakeside AZ QSLed w/prepared card & business card from Linda Philbrook, GM; 1838 W Commerce Dr., #A, Lakeside AZ 85929; in 28 days (Martin Foltz)
- 1290 KIVY Crockett TX new slogan: “America’s Best Music 1290 AM/102.9 FM”
- 1340 WPBR Lantana FL new slogan: “Radio Nouvelle Lumiere”.
- 1310 WAUC Wauchula FL new slogan: “102.1 The Outlaw”
- 1310 KNOZ Grand Forks ND new slogan: “KNOX News Radio 1310 AM & 107.9 FM”
- 1310 KZXR Prosser WA format now SS Romantica.
- 1320 WDDV Venice FL format now oldies, slogan: “Oldies 1320”
- 1400 WNEX Macon GA format now modern/alternative rock, slogan: “100.5 The X”
- 1420 KSTN Stockton CA eQSL from “The Bull”; info@1059thebull.com (Martin Foltz)
- 1450 WLAY Muscle Shoals AL has new slogan: “Country’s Greatest Hits”
- 1450 KENA Mena AR is now silent
- 1460 KCKX Stayton OR is now silent.
- 1480 WFLN Arcadia FL has changed call sign to WCXS



- 1480 KPHX Phoenix AZ returned to air w/unknown format
- 1490 KXRE Manitou Springs CO format now adult alternative, slogan: "Indie 102.3".
- 1490 WJMM Lewisburg TN slogan now "Fox Sports AM 1490 / 92.5 FM"
- 1520 WBZW Apopka FL has changed callsign to WNDO and ethnic format, with slogan "Radio Nouvelle Lumiere"
- 1560 KHBR Hillsboro TX adds slogan: "Hill County's Country Station"
- 1570 WVOJ Fernandina Beach FL new slogan: "La Raza 92.9"
- 1590 WTPA St. Petersburg Beach, FL format now ethnic, slogan: "Radio Nouvelle Lumière"

## **X BAND UPDATE**

**AUSTRALIA** SENTrack will be opening their radio station on 1620kHz at Gold Coast on 7 September. (Ian Baxter via MWMasts io Group)

## **CANADA**

- 1650 CINA Mississauga ON verified by email in 1 day from Cameron Akavan, Senior Mgr; cinaradio@gmail.com (Nigel Pimblett IRCA)
- 1650 CKZW Montréal QC – Daniel Poulin of La Radio Gospel/Montréal Christian Radio 1650 kHz (1kW) verified my email reception report by email after 7 days. You may write to them in French or English. Address: danielpoulin75@gmail.com (Frank Helmbold MW Circle 10/3 via ARC)

**MEXICO** XECSCGU-AM 1620 Guachochi is a community station that combines all sorts of new elements: the first Mexican on 1620 kHz, the first AM with a 7-letter callsign, the first station operated by a drug rehabilitation centre. The station went on the air in 2019 as "CREO Radio, Columna y Baluarte de la Verdad". The name is a reference to 1 Timothy 3:15, using the wording of the Reina Valera translation (the Spanish-speaking world's equivalent to the King James Bible). (Raymie Humbert via Glenn Hauser's WOR io Group)

Construction Permits have been granted for 3 social/indigenous stations in the X band in Morelia (power unknown); 1620 XECSIA Pátzcuaro, 1640 XECSIB Zamora, and 1680 XECSIC Morelia. (Tim Hall via NRC DX News)

XECSCGU 1620 AM Guachochi signed on 7 May 2020. They are a religious station, based in a drug rehab ministry, but the music I have heard on their live stream this afternoon sounded like standard regional Mexican fare. Their Facebook page says they are raising money to buy a 2kW transmitter, so the current power must be lower than that. Web site: <https://olivoministerio200.wixsite.com/creoradio> (Tim Hall via IRCA IO Group)

## **USA**

- 1620 KSMH West Sacramento CA adds FM // K249FJ-97.7. (FCC via NRC)
- 1680 KGED Fresno CA talk format has shifted to KXEX 1550. Both stations are owned by Compass Broadcasting which also owns Stockton's 105.9 The Bull, KSTN 1420. KGED had been on 1680 and has been leased by the afternoon host and his mother. 1680 now carries Regional Mexican music format. (Radioinsight.com via Paul Walker Jr via dxing.info)
- 1680 KNTS Seattle WA now using slogan: "1680 AM Radio Luz" (IRCA)
- 1690 WVON updated address from website: 800 South Wells, Suite 130, Chicago IL 60607. (Eric Bueneman IRCA)
- 1690 WMLB Avondale Estates GA went silent 16 January, back on the air on 4 May. Reported with 60s Oldies and frequent IDs by Bryan Turner in Athens AL. (NRC)

1700 WRCR Ramapo NY granted STA extension, U1 2500/250, 175' LW at 41-11-22/74-00-55. (NRC)

## US VIRGIN ISLANDS

1690 WIGT Charlotte Amelie granted STA extension, reduced power U1 400 watts day and night. (via NRC DX News)

## MAILBAG

**PAUL ORMANDY Oamaru** continues to check out reception on the League SDRs at Russell and Opunake; and has even heard some DX on the ham gear at home. He writes: "Very pleased to report my first MW verie for a long time, KBBJ Whitefish MT 880 quickly confirmed reception of their DX test by e-mail. I also sent an e-report to Radio Santa Maria, 1490, Azogues, Ecuador but alas, no reply." *[Tx for trail contributions Paul! BC]*

**STEVEN GREENYER Timaru** checks in from a chilly Queens Birthday Weekend at Clyde in Central Otago with a couple of recent Latin American observations for the trail. He says there hasn't been much activity apart from a lift in signals from Uruguay and Argentina on some days.

**BILL MARSH Blenheim** writes that it has been another great month on MW but there are signs of a tapering off. The following logs were all made at home with an Airspy HF+ SDR, a EWE aimed ENE with amplifier, and a temporary EWE to SE: 690 XEWW, 710 R. Rebelde, Cuba; 840 R. Bahia Blanca, Argentina; 860 R. Reloj, Cuba (recording to be further analysed); 920 R. National, Paraguay; 960 KNEW; 960 KKNT; 1060 XEEP; 1150 XEAD; 1210 WHPT; 1260 BBN Radio, Venezuela; 1460 KION; 1520 KKZZ; 1520 KYND; 1520 KOKC; 1540 KXEL; 1550 R. Rebelde, Cuba and 1670 R. Rubi, Argentina. *[Bill has a permanent EWE to the southeast under construction, so we can anticipate some more Latin American signals next month! BC]*

**TONY KING Greytown** reports another fun month with the Latins. "Nice to get some signals around 0530 and the 'roars' on many frequencies that eventually resolve into copiable signals later in the evening. Heather has permitted me to turn off our heat pump so that there is no QRN during my listening. There'll be a major antenna halt later in the month as we have the arborists coming to strip the overhanging poplar branches on our south boundary. Means my East and Northeast ones will come down for two days." *[Thanks for trail items Tony. My new WIN10 laptop needs maintenance which might deprive me of an SDR 'driver' for a week – looking for a plan B! BC]*

**MIKE SMITH Opunake** writes of a busy month – "although having said that, I've listened a lot, recorded a lot but haven't found the time to sit down and go through said recordings! I've been working remotely from home during lockdown so not too much downtime. No reports out or QSLs in. It was exciting to get the League's SDR2 running here on my big SSE ewe – still got some teething troubles to work through – too much gain for a start, making the locals hard to deal with. At Paul Ormandy's suggestion, I've installed an isolating "unun" at the receiver end of the coax which helped reduce some of the local noise. I'll experiment with the number of turns to try and find a happy medium between gain and overloading! The Latin signals do seem to be dropping off, compared to a month ago. I set up a temporary beverage at the local golf club one night, a few interesting ones from that in the trail." *[Enterprising as ever Mike! Thanks for SDR hosting! BC]*

**STU FORSYTH in Titirangi** has sent a report to R la 1010 but is not holding his breath. *[I understand very much how you feel! It's tougher than ever to elicit responses from broadcasters who in many cases are under increasing economic stress. BC]*

**BRYAN CLARK Mangawhai** sent reception reports away to Harbour Light of the Windwards

1400, KBBJ Montana 880 DX Test and WCBG Puerto Rico 1060 - and is thrilled with prompt QSL responses from the first two. "I agree that the Latins have tapered off a little, with more co-channel competition from North American stations, but still plenty of DX with new stations in Colombia, Ecuador, Venezuela & Puerto Rico added to the log – and an increasing number of audio files to be reviewed when time permits."

### 'OPUNAKE BENEFIT' TRAIL

NOTE: Member loggings made on remote New Zealand-based SDRs are indicated with a symbol after the frequency. An asterisk (\*) is to be used for loggings made on League SDR1 at Russell (Bay of Islands) with Flag antenna aimed NE and a hash (#) for loggings made on SDR2 at Opunake (Taranaki) with EWE antenna to SSE. a = approximate frequency for station well off its nominal channel, v= frequency varies during reception.

**BCM** Bryan Clark in Mangawhai with WinRadio G33DDC & EWES to NE, E & SE.  
**MS** Mike Smith at home in Opunake with Panasonic DR31 and EWE to SSE.  
**PWO** Paul Ormandy, Oamaru DXing at home with an Elecraft K3 and 4m EWE, or using the League SDRs at Russell and Opunake.  
**SG** Steven Greenyer, Timaru with Palstar R30A and EWES to south of SA, Mid SA and N. America.  
**SMF** Stuart Forsyth in Titirangi, using the League's SDRs at Russell & Opunake  
**TK** Tony King, Greytown with Tecsun PL380 ultralight receiver and flock of EWES

540\* 0846 SAMOA 2AP Apia, fr o/Rhema, ads, EE/Samoan & islands mx. 06/5 PWO  
 558\* 1833 FIJI. R Fiji 1 good with Fijian mx - mixed with an Aussie 12/5. SMF  
 560\* 0610 USA KSFO San Francisco CA, fr w/Sean Hannity hosting talkback. 28/4 PWO\*  
 580# 0629 ARGENTINA R Chubut, Trelew, gd w/EE pops, then gd ID. 21/5 PWO  
 590# 0757 ARGENTINA R Continental, Buenos Aires, gd sig in 594 splash w/SS tlk. 22/5 PWO#  
 610\* 0730 USA KEAR San Francisco CA, w/inspirational gospel mx, //web. 26/4 PWO  
 640# 0702 ARGENTINA Radio Nacional, Río Grande, "Informó, la radio pública en todo al país" "en Radio Nacional". Good copy! 15/5 PWO  
 650\* 0803 HAWAII KPRP Honolulu, fr-gd EE/Hawaiian annc & Hawaiian mx. 1/5 PWO  
 670# 0552 ARGENTINA R Nacional, Comodoro Rivadavia, MA & FA interview //web, mxd unid mx stn. 21/5 PWO  
 .684 0540 AUSTRALIA 2KP Kempsey w/talkback, poor but steady this early 29/5. BCM  
 690\* 0731 USA KTSM El Paso TX, I-heart promo then brief ID and "Coast-to-Coast AM" show. 28/4 PWO  
 690\* 0846 CANADA CBU Vancouver BC nx stories, Winnipeg Zoo under Covid-19 etc. 10/5 PWO  
 710 0700 CUBA Radio Rebelde very good signal w/ Cuban news 26/5. SG  
 710# 0725 CUBA R Rebelde, var. MA ballad, //5025.19/5 PWO  
 710# 0727 ARGENTINA R Diez, Buenos Aires, up o/Rebelde briefly. 19/5 PWO  
 730\* 0808 MEXICO XEX Mexico DF w/mx prgm //web, not listed sports 22/5. BCM  
 740\* 0739 USA KTRH Houston TX FA tlk show host //web. 28/4 PWO  
 750\* 0715 USA KXTG Portland O fr, w/sports talk. 27/4 PWO  
 770 0531 COLOMBIA RCN Radio Bogota gd w/continuous news/talk //web 25/5. BCM  
 770\* 0821 USA KKOZ Albuquerque NM 2 x MA w/ "Red Eye Radio" show. 12/5 PWO  
 780\* 0819 USA WBBM Chicago IL dominant "WBBM news time" wx, hi 70F, lo 52F. 28/4 PWO  
 780# 0613 ARGENTINA R Tres, Trelew, lively instru, mxd unid balladeer. 21/5 PWO

790\* 0725 USA KABC Los Angeles, I-heart promo, tlk then ads. 27/4 PWO\*\*

790# 0626 ARGENTIA R Mitre, Buenos Aires, lively dance rhythms, //web. 21/5 PWO

820# 0608 ARGENTINA R Nacional, Formosa, lively Latin brass mx, 2 x MA ann. //web. 17/5 PWO

820 0704 US WBAP Fort Worth TX w/weather, "from the WBAP News Desk, I'm Ben Jeffries. The next update at 3.02, 24 7 coverage at WBAP.com" 17/5. BCM

830 0630 UNID LATIN mystery with Andean style music not // to any web stream suspect Huancavelica Ecuador mixed w/one of the Argentinians 26/5.SG

830# 0804 ARGENTINA R Provincia de Santa Cruz, Rio Gallegos, MA & FA tlk, ID, gd sig. 22/5 PWO

830# 0815 ARGENTINA La Ocho, Rosario, Genesis & Police hits, fr //web. 15/5 PWO

830# 0818 ARGENTINA, R Provincia de Sta Cruz, LU14 - fair at best with non-stop tango mx, some vocal tracks. ID 0833 - ocho-triente // website. 26/5 SMF

830 0822 ECUADOR Radio Huancavilca good w/mx, SS ident over KLAA 14/5. BCM

830 1006 HAWAII KHVH Honolulu w/I-Heart promo and ident "only on Newsradio 8-30, KHVH", leading into Coast to Coast AM talkshow 15/5. BCM

840# 0808 ARGENTINA R Bahia Blanca, currently on overnight with mx prog, few ann. 16/5 PWO

850# 0830 URUGUAY R Carve, Montevideo, vgd with ids & tlk, 16/5 PWO

860\* 0656 USA KTRB San Francisco, relig radio drama. Dominant. 26/4 PWO

870 0459 ARGENTINA Radio Nacional fading up w/time pips, ident & nx 21/5. BCM

870 0630 ARGENTINA R.Nacional BA. Time signal and ID 23/5 TK

870\* 0639 USA KRLA Glendale CA fair, steady w/"The Answer" talk show. 5/5 PWO\*

870# 0833 ARGENTINA R Nacional, Buenos Aires, in solid w/tangos. 16/5 PWO#

880\* 0645 USA KBBJ Whitefish MT DX test on 10kW, CW ids & sweep tones. 2/5 PWO

880\* 0658 HAWAII KHCM Honolulu fr KK relig, also carries some EE & CC. 10/5 PWO

880\* 0906 USA KRVN Lexington NE "The Rural Voice of Nebraska, KRVN" and talk show. 3/5 PWO

880 0600 PERU R. Union, Lima "Melodia del Peru' (not the rel. rants !) 23/5 TK

930\* 0722 USA KLMR Lamar CO w/70s/80s hits, Steely Dan, INXS, CCR etc fair but long fades //web 10/5 PWO

930\* 0815 CANADA CJCA Edmonton AB, dom. w/modern gospel //web. 30/4 PWO

940\* 0552 USA, KFIG Fresno CA fair to good with ESPN sports nx 5/5. SMF

940# 0840 BRAZIL, Super Radio La Boa Vontade dominant with religious message but mixed with XEQ // website. 17/5. SMF

940# 0906 BRAZIL Super Rede Boa Vontade, Rio de Janeiro, gd sig w/hymn then FA relig, MA ids w/freqs & locations. 16/5 PWO

960\* 0828 USA KKNT Phoenix AZ, fair o/CFAC w/talkshow //web. 30/4 PWO

960 0936 PERU R. Panamericana, Lima. 'joropo' beat latin mx 21/5 TK

970 0515 PARAGUAY ZP9 Universo 9-70 w/talkback // web, fair peaks 26/5. Freq measured at 970.008. Another Latin on 970.002 dominated from 0603. BCM

980\* 0805 CANADA CKNW New Westminster BC nx w/"Global News" fr. 10/5 PWO

1000\* 0734 USA KOMO Seattle WA string of ads, id & tlk. 27/4 PWO\*

1010# 0613 URUGUAY, Radio la 1010 - fair at best with mx // website, mostly under splash from 1008, 1ZD as was, 23/5. SMF

1010\* 0735 CANADA CBR Calgary AB, MA news talk w/guest callers. //web 30/4 PWO

1020\* 0912 USA KTNQ Los Angeles CA vgd w/SS FA running nx stories. 03/5 PWO

1040\* 0731 USA WHO Des Moines, IA several IDs prior to nx, gd level. 01/5 PWO

1050\* 0709 USA KTCT San Mateo CA gd w/KNBR 680 sports show. 03/5 PWO

1050# 0828 URUGUAY R Uruguay, Montevideo, nice sig, instru x. 20/5 PWO

- 1050a 0708 ECUADOR Radio Águila Sport, Guayaquil on 1050.139 causing het on 1050 w/lively music format, just one SS ID annct hrd in 3 hours monitoring: "Radio Águila Sport - 1050, Voces con Libertad". Thanks to RealDX IO Group members for identification. Noted Followed till 1006 t/out 17/5. Not hrd 18/5 but back again 0538 on 24/5 so must run 24 hours at weekends. BCM
- 1060 0623 BRAZIL R.Deus e Amor impassioned sermon, PP, poor mod 3/05 MS
- 1060\* 0658 CANADA CKMX Vancouver BC, w/comedy. 26/4 PWO\*
- 1060 0726 PUERTO RICO WCGB Juana Diaz w/EE religion o/KEEP. Ident for WBMJ-1190 & refs to Rock Radio Network 30/4. Also noted 2/5 at 0732 w/SS evangelist (program sked on website shows SS at weekend) and 0623 on 7/5. Thanks to SG for alerting me to unid here and PWO for id help. BCM
- 1060 0757 MEXICO XEEP Radio Educacion Mexico DF all alone w/light orchestrals. Ident 0807 2/5. BCM
- 1060\* 0829 MEXICO XEEP R Educacion, Mexico City, piano concerto. 02/5 PWO\*
- 1070 0649 COLOMBIA Radio Santa Fe, Bogota w/id, lively mx, mixed KNX 6/5. BCM
- 1100 0927 USA KFAX San Francisco. PSA for virus test. Choral items. 21/5 TK
- 1140\* 0741 USA KHTK Sacramento CA gd w/tax ads "Sports 11-40 KHTK" id then CBS Sports show. 3/5 PWO\*
- 1140\* 0852 USA KXST North Las Vegas NV poor-fair on CBS Sports, same as KHTK! 5/5 PWO\*
- 1150\* 0713 USA KEIB Los Angeles gd w"The Patriot" tik show. 03/5 PWO\*
- 1160\* 0746 USA KSL Salt Lake C UT fr w/radio theatre. 03/5 PWO\*
- 1180 0615 USA Radio Marti, Marathon FL w/freq "Radio Marti, 34 anos" ids 4/5. BCM
- 1180 0756 CUBA Radio Rebelde fair // 5025 SW over/mixed Radio Marti 23/5. BCM
- 1190 0605 ARGENTINA R.Nacional Tucuman SS vocals over KEX 20/5 TK
- 1190 0648 USA KEX Portland OR. Talkback 20/5 TK
- 1190\* 0743 CANADA CFSL Weyburn SK, fr thru tik stns w/C&W mx //web. 24/4 PWO
- 1190 0800 ARGENTINA R Nacional, San Miguel de Tucuman, FA w/ids then into nx. Not // web. 15/5 PWO
- 1190# 0850 COLOMBIA R Cordillera dominant w/SS oldies - lots of singing. 17/5 SMF
- 1200 0518 BRAZIL Radio Cultura gd w/jazz, brief "Cultura" IDs MS
- 1200# 0553 BRAZIL R Cultura, Sao Paulo, vy pleasant mx, fr on rare peaks. 16/5 PWO
- 1200\* 1011 CANADA, CJRJ fair/ poor with mx //website. In the mix with WOAI, presumed. 13/5 SMF
- 1200\* 1014 USA, WOAI up with a clear ID after traffic nx 13/5. SMF
- 1200a 0721 COLOMBIA HJIJ La Voz de la Raza, Medellin w/ident, pop vocals on measured 1200.174 causing het whine on WOAI 20/5. BCM
- 1206 1032 CHINA Korean News station good sig Male & Female in KK 3/05 MS
- 1210 0457 COLOMBIA HJFR Neiva w/'Besame' idents, lively rhythms 9/5. BCM
- 1210 0504 CUBA Radio Reloj time pips & CW "RR" each minute, pushing thru mix of stations 9/5. BCM
- 1210 0550 USA KGYN Guymon OK w/Fox Sports promos, mixed KPRZ 22/5. BCM
- 1210 0647 COLOMBIA HJBQ La Carinosa, Pereira non-stop SS vocals, id'ed per // webstream, mixed w/KZOO etc, following tipoff from Tony King 25/5. BCM
- 1210\* 0935 HAWAII, KZOO fair/ good with Asian songs. 14/5, SMF
- 1210 0815 USA KPRZ San Marcos CA. rel. choral items over talk 23/5 TK
- 1210\* 0950 USA KPRZ fair-poor with religious prgm and mx. // website 13/5. SMF
- 1220 0544 COLOMBIA Radio Maria over/mixed XEB for short time 4/5. Confirmed by // webstream. BCM



1220 0632 MEXICO XEB full ID, studio address & email. Regular oldies mx 20/5 TK  
1220# 0912 MEXICO, XEB up with Mexican folk mx. Fair // website 15/5 SMF  
1220\* 0917 CANADA CJRB Bossevain MT, stirring operatic mx, some instrus, u/o XEB, fr on peaks. 12/5 PWO  
1220# 0927 MEXICO XEB Mexico City, good w/tangos. 17/5 PWO  
1220\* 1005 CANADA, CJRB fair at best with classical mx // website. Bad splash from 1215. 13/5 SMF  
1260 0620 VENEZUELA BBN Radio, Caracas tentatively first hrd 13/5 w/soft religious format & positively id'ed on 17/5, // webstream and quoting their URL. BCM  
1260 0738 MEXICO XEL La Comadre, Los Reyes Acaquilpan dominating freq w/lively rhythms and frequent idents 13/5. BCM  
1260 0855 COLOMBIA HJDA Radio Autentica Medellin w/talk, freq idents 20/5. BCM  
1270 0522 ARGENTINA Radio Provincias de Buenos Aires good & clear on peaks w/ Covid-19 report "de la provincia de Buenos Aires". Thanks to RealDX group for deciphering, 13/5. BCM  
1270a 0910 COLOMBIA La Carinosa, Cartagena on measured 1270.029 w/ continuous Latin pops, shouted ident 0920 20/5. BCM  
1290 0821 ARGENTINA R Murialdo, Villa Nueva de Guaymallén, gd w/classical mx. 16/5 PWO  
1300 0603 ARGENTINA LRA5 Rosario good, "La Radio Publica" 1/5 MS  
1350 0527 ARGENTINA R.Buenos Aires over ZB at times 4/5 MS  
1360 0519 PERU R Bienestar, Lima, gd solid copy, 2 x MAs w/tlk. 17/5 PWO  
1380\* 0754 MEXICO XECO fair w/ FA "Escucha Radio Romantica" & ballad. 3/5 PWO  
1400 0917 GRENADA Harbour Light of the Windwards, Carriacou w/religious programming, poor to fair. Faded out at 0953 (sunrise was 0948) 30/4. Logged again 4/5 from 0909 till 0959 and 12/5 from 0913 till 1000.BCM  
1400\* 0940 USA, KKJL (Tentative) with oldies tunes - fair/poor - a bit of noise but no co-channel QRM. 6/5.SMF  
1410\* 0935 CANADA, CFTE fair with nx and talk. Bad splash from 1413 6/5. SMF  
1420\* 0556 HAWAII, KKEA, fair with ESPN sports radio. 5/5 SMF  
1430 0505 BRASIL Suspect Radio Evangelizar w relig discussion in PP fair 4/5 MS  
1430\* 0931 USA, KYNO fair with oldies mx. Mixed 6/5 SMF  
1460 0611 USA KION Salinas CA Talkback. PSA for identity theft 19/5 TK  
1460\* 0838 USA KION Salinas CAA vgd w/tlk, mxd oldies stn at times. 04/5 PWO  
1480 0545 USA UNID Fox Sports Radio affiliate here 22/5 mixing Latin – who? BCM  
1480 0846 PERU Radio Espinar, Yauri. ID and spoken 5 second 'bursts' over trad. dance ritmos, a practice heard back in the 60's on SW 15/5 TK  
1480 0959 PERU Radio Espinar, Yauri continues to be the dominant 1480 Latin for me nightly w/regular idents & time checks, rooster calls 5/5. BCM  
1490 0556 ECUADOR Radio Santa Maria , Azogues, choral items clear ID 0600 17/5 TK  
1490\* 0639 COLOMBIA R. Vida Nueva, Barranquilla, laid-back vocs, //web. 26/4 PWO  
1500\* 0807 HAWAII KHKA Honolulu fair-good w/CBS Sports Radio. 03/5 PWO  
1510 0537 ECUADOR Radio Naval up briefly w/ time pips 11/5 MS  
1510\* 0820 USA KGA Spokane WA fair w/hip-hop mx "The new 103-5 The Game". Also carries sports 6/5 PWO  
1520 0614 USA KYND Cypress TX with repeated loop message offering radio airtime, dominating freq 6/5, fair on peaks w/occ QRM from HJLI 1520.040. Thanks to SG for the DX tip. BCM  
1530\* 0709 USA KFBK San Francisco CA, gd thru NZ w/talk back . ID, I-heart R, Coast-to--Coast". 26/4 PWO



- 1540\* 0812 HAWAII KREA Honolulu, gr w/Abba song, annc in KK. 03/5 PWO
- 1540\* 0814 USA KMPC Bakersfield, gd mxd KREA w/KK gospel mx. 03/5 PWO\*
- 1520 0745 USA KOKC Oklahoma City OK w/ Red Eye Radio promos o/KYND 6/5. BCM
- 1560 0459 COLOMBIA Santa Maria de la Paz, female w/long SS religious talk till hymn at 0521. Confirmed via //webstream 4/5. BCM
- 1570 0500 PERU Bethel Radio, Lima w/ SS ident and time check on the hour 4/5. BCM
- 1610\* 0559 CANADA CHHA fair w/latin mx, sig dropped on hour w/SS annc 5/5 SMF
- 1620# 0556 ARGENTINA Radio 1620 Mar del Plata, fair w/music. 16/5. SMF
- 1700 0600 MEXICO XEPE Tijuana.EE pops, time pips, full ID 21/5 TK

**DODGING THE GOLF BALLS? MIKE's OPUNAKE GOLF CLUB MINI-TRAIL**

Mike Smith ran out a 250 metre beverage antenna to the East at his local golf club in the early evening of 8 May and reports the following logs on the Panasonic DR31:

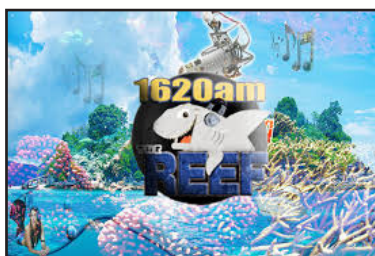
- 710 0552 CUBA R.Rebelde, fair, busy F/Ann SS 8/5 MS
- 1540 0638 UNID EE EZL, suspect Bahamas, fair on peaks 8/5 MS
- 1620 0609 ARGENTINA AM1620 gd w M&F talk, ment Buenos Aires 8/5 MS
- 1620 0515 US VIRGIN ISLANDS WDHP dominant w/ID "The Reef 103.5" 8/5 MS
- 1660 0505 PUERTO RICO WGIT Sermon in SS, long fades, good peaks 8/5 MS

**PACIFIC ASIAN LOG - NEW EDITION PUBLISHED**

The April 2020 edition of the Pacific Asian Log (PAL) is now available. It can be downloaded from the Radio Heritage website: <http://www.radioheritage.net/> The link for the PDF version is at the top centre of the site's main page.

First issued in 2001, PAL lists medium wave and domestic shortwave broadcasting stations in southern and eastern Asia and the Pacific. It includes nearly 5000 stations in over 50 countries, with frequencies, call signs, locations, power, networks, schedules, languages, formats, networks and other information. The PAL continues to evolve. I've made some major change to the Japan listings and added many links to web pages and streaming audio. Changes have also been made to individual listings in Australia, New Zealand, Vanuatu, India, South Korea, and elsewhere. There have also been a few tweaks to the log's format. Comments and updates from users are welcome and encouraged. They can be sent to [bportzer@comcast.net](mailto:bportzer@comcast.net) or [portzerbt@gmail.com](mailto:portzerbt@gmail.com) (Bruce Portzer via Glenn Hauser's World of Radio io Group 4May20)

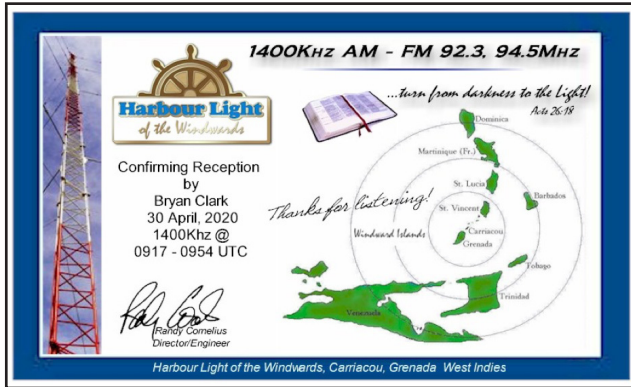
**TIME SIGNAL IDENTIFICATION** The Time Pips Catalog which was introduced in early 2019 has been recently updated. It includes reported MW stations from Europe, Africa, the Middle East and Latin America. The list is at [www.radiodxing.com/TimePipsCatalog.xlsx](http://www.radiodxing.com/TimePipsCatalog.xlsx) (Russ Edmunds via IRCA io Group, via Glenn Hauser's WOR io Group) [Argentinean stations in particular can often be picked out of the noise, thanks to their regular use of time pips. BC.]



**The X Band List** (compiled by Tony King - June 2020)

1610	XEUACH	Chapingo	MX	Radio Chapingo
	CHHA	Toronto	ON	SS 'Radio Voces Latina' Fq ID in SS & EE
	CHRN	Montreal	QC	South Asian Format. Radio Humsafar
1620	KSMH	W Sacramento	CA	Rel. 'IHR (Immaculate Heart Radio) Sacramento'.
	Radio Rebelde	(6 Tx )	CU	SS .Distinctive 5 note chime on hour. Sync echo.
	WNRP	Gulf Breeze	FL	News/Talk Fox News "News Radio 1620"
	KOZN	Bellevue	NE	Fox Sport "The Zone"
	WTAW	College Station	TX	'Newstalk 16-20 WTAW' Takes C-to-C AM
	WDHP	St Croix	USVI	"ID 103.5 The Reef" rel/Tlk/Local music 0320.
	KYIZ	Renton	WA	Urban contemporary //KRIZ " Z Twins"
1630	KCJJ	Iowa City	IA	Oldies. " The Mighty 16-30 KCJJ"
	KKGM	Ft Worth/Dallas	TX	'Country Gospel 1630 KKGM' IRN News
	KRND	Fox Farm	WY	SS 'regional mexican' ID "La jota La Mexicana"
1640	KDIA	Vallejo	CA	Talk/religious/life issues
	WTNI	Biloxi	MS	Classic Country
	KZLS	Enid	OK	News/Talk
	KDZR	Lake Oswego	OR	Conservative Talk "Talk 1640" "tha Patriot"
	KBJA	Sandy	UT	'K-Talk KBJA'
	WSJP	Sussex	WI	Rel. Catholic. " Relevant Radio 1640 AM"
1650	KFSW	Fort Smith	AR	Contemporary Christian
	KFOX	Torrance	CA	Radio Seoul. Korean/ EE ID on hour
	KBJD	Denver	CO	SS Rel. Radio Luz
	CKNZ	Cedar Falls	IA	"The Sports Station" 1650 The Fan
	CKZW	Montreal	QC	Regional
	CINA	Mississauga	ON	South Asian Format.
	KXVE	El Paso	TX	SS Mexican "Jose 1650 AM R. Suavecita"
	XEARZ	Mexico DF	MX	EZL orchestrals
	WHKT	Portsmouth	VA	GOS/rel 'Praise' slogan.
1660	KBRE	Merced	CA	AOR 'The Bear'
	WCNZ	Marco Is	CA	Relevant Radio
	KWOD	Kansas City	FL	Sport/Talk " 'The Score'
	WQLR	Kalamazoo	MI	Fox Sports. "Kalamazoo 1660, The Fan"
	WBCN	Charlotte	NC	Classical Rock
	KQWB	West Fargo	ND	Fox Sports
	WWRU	Jersey City	NJ	Korean Gospel
	WGIT	Canóvanas	PR	'Faro Santidad' SS Religious
	KRZI	Waco	TX	"KRZI ESPN Central Texas"
1670	KHPY	Moreno Valley,	CA	SS religious . ESNE radio.
	KQMS	Redding	CA	"News Talk Airs C2C/Fox
	WMGE	Dry Branch,	GA	"Fox Sport Radio 1670 Georgia"
	CJEU	Gatineau	QC	Community/Children's "Radio Oxygene 1670"
	WOZN	Madison	WI	" CBS Sports Radio "The Zone"
1680	KGED	Fresno	CA	SS Mexican
	WOKB	Winter Garden	FL	Rel/ UC "Gospel 1680"" "inspiration Station"
	KRJO	Monroe	LA	"Classic Country" 99.7 The Legend"
	WPRR	Ada	MI	Talk. Public Reality Radio
	WTTM	Lindenwold	NJ	SS Sport
	KNTS	Seattle	WA	SS rel.EE ID 00:10 after hr '1680AM Radio Luz'
1690	KFSG	Roseville	CA	Contemporary Christian
	KDMT	Arvada	CO	Relevant Radio
	WMLB	Atlanta	GA	"Classic Hits 1680 "LA105"
	WVON	Berwyn	IL	Talk 'WVON Berwyn AM 1690"
	WPTX	Lexington Park	MD	Adult standards
	CHTO	Toronto	ON	C & W
	CJLO	Montreal	QC	Oldies.
	WIGT	Charlotte Amalie	USVI	News/talk. Nets NPR 100w.(05/19)
1700	WEUP	Huntsville	AL	Contemp Gos. ."Huntsvilles Heritage Station"
	WJCC	Nth Miami Beach	FL	World ethnic.' Radio Mega 1700.'
	KBGG	Des Moines	IA	CBS Sport 1700
	XEPE	Tecate BCN	MX	Heraldo Radio Nwk
	WRCR	Ramapo	NY	Community station. 250w 05/19
	KKLF	Richardson-Dallas-Ft	TX	Worth TX Tejano/Conjunto SS/EE 'Banda 13'
	KVNS	Brownsville	TX	Fox Sports Radio 1700'

## PRIZED QSL FROM GRENADA



On 30 April 2020 I finally heard a radio station that has been on my DX target list for more than 2 decades. Harbour Light of the Windwards is based in the tiny eastern Caribbean nation of Grenada and operates on 1400 medium wave. It is regularly heard by European DXers so I always thought it would be a possible DX catch here, Grenada is possibly best known in my lifetime for the US invasion in 1979, but for long-time DXers there was also the Windward Islands Broadcasting Service (WIBS) which was easily heard on shortwave in the 1950s through 1970s, becoming Radio Grenada in 1974. I have several WIBS QSLs in my collection, including some on 13 metre band frequencies.

The Harbour Light of the Windwards is a non-profit, non-commercial, Christian radio station located at Tarleton Point on the north-eastern slope of Carriacou, one of 3 islands making up the Caribbean nation of Grenada. The station's primary target area is the 2.5 million English



speaking people of the Windward Islands – Grenada, St Vincent, St Lucia, Dominica, and Martinique.

Carriacou, along with Petit Martinique, are separate islands which are part of Grenada, the main island. Carriacou is inhabited by nearly 7000 people with three distinct European influences. A French influence is found in the South, Scottish in the Northeast, and British on the Western side. The two main sources of income are boating (fishing and trading) and farming.

The founders of Harbour Light were Rolan & Arlene Cornelius. While attending Bob Jones University (BJU) in South Carolina in the 1950s, Rolan had met his future wife Arlene. Both had been called to missionary service, and Rolan took radio courses as a student at BJU even though he didn't know how he would use them. Subsequently Rolan and Arlene married while serving at Radio ELWA in Liberia. Rolan was involved in many aspects of the work at ELWA, including maintenance of radio towers and managing the flow of programming through 5 control rooms which distributed programming in almost 40 languages. He eventually became Director of External Affairs for ELWA, managing several recording studios in Africa and the Middle East.

After 16 years at ELWA, the Cornelius family relocated to the Caribbean to establish the Caribbean Radio Lighthouse on the island of Antigua. Rolan was the director of the Lighthouse when it commenced transmissions in 1975. CRL was well heard in NZ on its signature 1165 AM channel and I verified them in late 1976.

In 1985, the Aviation Radio Missionary Service (ARMS) asked Rolan and Arlene to help them to establish a new radio ministry on the island of Grenada in the southern Caribbean. The Cornelius family left Antigua in 1986 to work toward establishing this new opportunity in the Windward Islands. Construction of the Harbour Light of the Windwards began in 1990 and went on the air in December 1991, reaching all the Windward Islands, Barbados, Trinidad & Tobago, and along the coast of South America.

When Rolan Cornelius died in 1997, son Randy took over running Harbour Light Ministries. Today he is managing director, engineer and program director for the station. Randy has been a ham radio enthusiast and handles DX listener mail such as mine. His wife Charlene is Principal of the Harbour Light Christian Academy, while mother Arlene continues her involvement with Harbour Light, mainly in the planning and production of children's radio programmes.

The present schedule for AM broadcasts is 5:00 AM to midnight local time, that is 0900 to 0400 UTC. Programming is primarily Bible preaching and teaching in nature, but there are also science, drama and classical music programmes, weather, and world news from the BBC. Harbour Light was the only radio station in Grenada to remain on air during Hurricanes Ivan & Emily on September 7, 2004 and July 16, 2005.

The primary coverage (0.5mv/m) area for 1400 AM includes a 300km radius. Signal reports have come from all the Islands in our coverage area, South America, and Europe [and now the South Pacific! BC]. The 250-watt Crown FM transmitters are on air 24 hours daily (94.5, 92.3MHz), and primarily cover Grenada, Carriacou & the Grenadines.

Harbour Light used a Nautel ND5 5kw solid state transmitter for its transmissions from October 1991 until 27 April 2019 when a slightly used fully solid state Nautel XR-12 purchased from the former government station in Grenada was inaugurated. The station engineer converted it to the 1400 AM operating frequency and recommissioned it at 5kw. This transmitter is capable of 10kw, so a power increase at some time in the future is being considered. The audio processor is a two stage CRL system with the NRSC pre-emphasis. The antenna is a quarter-wave, series-fed, monopole 55 meters in height with an above-ground tuned radial (raised radial) ground system that uses only 4 wires 55 meters in length perpendicular to each other and raised 5 metres above the ground for the frequency of 1400Khz. The computer models show that it is as good or slightly better than the conventional ground

system with 120 radials buried in a circle around the tower. Tests have proved this also. The beauty of this system is its ease of installation, maintenance and low cost. A standard “tee” matched ATU (antenna tuning unit) is used for matching the tower to the transmitter.

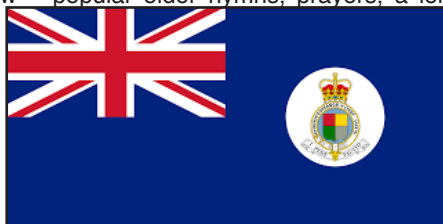


The new Nautel XR-12 transmitter



Coverage Map for Harbour Light of the Windwards

If you want to hear Harbour Light on 1400, I think the best time to listen is between our Autumn and Spring equinoxes, between 0900 and 1000 UTC, to catch sunrise enhancement of the signal - Grenada sunrise is 1002 UTC on 1 April, 0946 on 30 April, 0953 on 1 August, 0956 on 1 September. 1400 is a challenging frequency at the best of times, with hundreds of low powered North American stations, and numerous Latin American stations too. My receptions coincided with good signals from Colombia and elsewhere in the Caribbean. Harbour Light has a distinctive religious programme structure in that first hour which I have heard several times now – popular older hymns, prayers, a lengthy Bible reading from around 0930 UTC.



# SDR NEWS & DX



Editor

**Dene Lynneberg**  
Wellington

email  
**nzrdxlsdrpage@gmail.com**

Welcome to the first of the new SDR Pages in the DX Times. Times have certainly changed from way back in the very early sixties when I began dxing when one used an analogue receiver and sent reports to stations by snail mail. Nowadays we have the advantage of digital receivers and email facilities for sending our reports.

Even the art of receiving QSL's has changed with QSL'd now being received not only by snail mail, but more often by email and many enterprising DXers are also receiving QSL confirmations via Facebook and Twitter accounts. In today's world many DXers are now faced with living in noisy environments and this is often coupled with the lack of space to erect a decent kind of antenna so when online web receivers became a reality it was a godsend to many of us.

Firstly along came DXTuners.com which later became **GlobalTuners.com**. This website consisted of a large number of receivers online which could be tuned by those who registered on the site. The receivers on this site included such types as NRD1515, ICOM PR1000, ICOM R8500, ICOM R9000 among many others. Some of these receivers were also able to tune the FM band. Next came the well known Twente sdr located at the University of Enschede in the western part of the Netherlands. This receiver was truly amazing in that it could allow several hundred listeners to tune the receiver all at the same time and it featured that unique waterfall feature where you could see the carriers of stations in the range of the spectrum on display.

Then a new wind swept on to the web with the invention of the Kiwi sdr. The development of this software defined receiver has again revolutionised dx'ing and now at the website **kiwisdr.com/public/** you can find these kiwi sdr's in locations all around the world. We now find that dx'ers from all parts of the world are using these receivers to log and verify stations according to what interests them. I myself have been using online receivers for many years now mainly due to a lack of space to erect suitable antennas and the dwindling number of DXers in the Wellington area who are interested in dxpeditions. I have my own personal preferences for which sdr's I like to tune around on. Two of my favourites are the excellent kiwi sdr's located at Kongsfjord in Northern Norway. I like these receivers because of their excellent reception capabilities and they also tug at my Norwegian ancestry connections, my great-grandfather was a Norwegian from Tønsberg in Southern Norway. On this receiver I have heard stations from Alaska down to Nigeria and Argentina. I can also be found tuning the Bjargtangar sdr in Western Iceland.

The Chief Editor Stu has said that this is my page, but really it is your page, so if you have any contributions be it loggings made on these overseas sdr's, QSL's received from using them, reviews of sdr's, or in fact anything to do with sdr's please don't hesitate to send them in. The new email address of the SDR Page is: **nzrdxlsdrpage@gmail.com** At this point I must say thanks to all those who expressed their support for having an sdr page in the DX times in the DX Dialog. So come on guys send in your contributions.

Our first contribution to this new page comes from **Ken Baird in Wainuiomata** Ken Says: I have just booted up my new Lenovo 100E G2 Chromebook. The first thing I did was check its performance as an SDR controller - all OK on NZRDXL SDR1&2, and the overseas SDRs. It



has 4MB Ram, 32 MB storage so is able to handle the software. I am waiting on a converter to put the small screen on to my 22 inch one. I am very pleased with the Chromebook, it's much faster than my aged PC. I have been using SDR1 in particular since advised by Arthur DeMaine in 2018.

Great loggings have been:

6035 1055 BHUTAN, BBS Good in EE with news and ID, 19/10/2018 (I have been trying for years to hear this)

3310 1844 ESTONIA, R Tallin poor in EE with ID, 17/3/2020

I also use the Wide Band SDR, **Uni of Twente** (Pieter-Tjerk, PA3FWM). The first SDR on the Web. Homemade and with his own Linux based software which can now accommodate 800 users at a time! KHP in California, a morse marine station under restoration, is also much used when conditions here are very poor. SDRs are the way to go these days but I have not had luck with the cheap RTL units. *(Thanks Ken you your contributions. I look forward to more contributions and loggings or QSL's you get from using these sdr's. Ed)*

And now to some loggings made by our Karori, Wellington member **John Mainland**.

<b>KHz</b>	<b>SDR</b>	<b>UTC</b>	<b>Country, Station, Programme &amp; Reception Details</b>
5945	#	1830	TURKEY: VOT-Emirlar poor-fair in EE 27/4 JM
5960	#	1855	TURKEY: VOT-Emirlar fair in Turkish 29/4 JM
5970	#	0250	USA: WEWN-Vandiver poor-fair in SS to LAM 1/5 JM
6030	#	0245	USA: Radio Marti-Greenville fair in SS 1/5 JM
6040	#	1845	SAO TOME: VOA-Pinheira poor-fair in Lang of Zimbabwe 27/4 JM
6105	#	0235	FRANCE: NHK World Radio-Issoudun fair in JJ 1/5 JM
7395	#	1610	CHINA: CRI- Kunming fair in Hindi to South Asia 2/5 JM
7495	#	1630	THAILAND: Radio Ashna-Udon Thani fair in Pashto 29/4 JM
7525	#	1640	IRAN: VOIRI-Sirjan fair in AA to ME 29/4 JM
7540	#	1755	THAILAND: Deewa Radio-Udon Thani fair in Pashto 1/5 JM
9370	#	0520	GERMANY: Radio Fada-lampertheim fair in Persian 29/4 JM
9385	#	0735	USA: WEWN-Vandiver fair in EE to W/Africa 28/4 JM
9410	#	0550	ENGLAND: BBC-Woofferton poor-fair W/S in EE 29/4 JM
9465	#	0250	TURKEY: VOT-Emirlar fair in Uighur to FE 2/5 JM
9490	#	0320	GERMANY: NHK World Radio-Nauen fair in JJ to ME 2/5 JM
9720	#	2040	CHINA: CRI-Urumqi fair in Bulgarian 2/5 JM
9730	#	2030	VIETNAM: VOV-Hanoi-Sontay fair in FF to Europe 2/5 JM
9800	#	2025	ENGLAND: World's Last Chance-Woofferton fair in AA 2/5 JM
9855	#	1955	IRAN: VOIRI-Sirjan fair in EE. Ilei 9835 also fair 2/5 JM
11670	#	1445	SPAIN: RNE-Noblejas fair in SS to Africa 3/5 JM
11735	#	1420	North Korea: Voice of Korea KCBS-Kujang poor-fair in KK 3/5 JM
11740	#	1430	SINGAPORE: NHK World Radio-Kranji fair in EE 3/5 JM
11765	#	1415	CHINA: CRI-Urumqi fair in EE 3/5 JM
11810	#	1950	ASCENSION IS: BBC-English Bay W/Sce fair in EE to Africa 30/4 JM
11810	#	2000	ENGLAND: BBC-Woofferton W/Sce fair in EE to Africa 30/4 JM
11825	#	1335	TURKEY: VOT-Emirlar fair in Kazakh 3/5 JM
11850	#	1325	SAO TOME: RDW-Pinheira fair in Hausa 3/5 JM
11895	#	1920	CHINA: CRI-Kashi fair in Cantonese for Europe 30/4 JM
11900	#	1250	AUSTRALIA: Reach Beyond-Kununurra fair in Hindi to S Asia 3/5 JM
11945	#	1020	IRAN: VOIRI-Sirjan poor-fair in AA 29/4 JM
11980	#	0650	ROMANIA: Radio Romania Int-Tiganesti fair in AA 3/5 JM
11985	#	2120	SAIPAN: Radio Free Asia-Agingan Point poor-fair in Korean 29/4 JM
12005	#	1220	GERMANY: Radio Farda-Lampertheim poor-fair in Farsi 3/5 JM



15215 # 1330 FRANCE: RDW-Issoudun poor-fair in Hausa for W Africa 28/4 JM  
 15320 # 0825 FRANCE: RFI-Issoudun in FF to Africa poor-fair 2/5 JM  
 15335 # 0820 CHINA: CRI-Kashi fair in Russian 2/5 JM  
 15360 # 1225 THAILAND: Radio Mashaal-Udon Thani fair in Pashto 1/5 JM  
 15410 # 1450 CHINA: CRI-Kashi poor-fair in EE 2/5 JM  
 15465 # 0805 CHINA: CRI-Kashi poor-fair in EE 2/5 JM  
 15660 # 1805 ENGLAND: VOA-Woofferton fair in Amharic to E Africa 3/5 JM  
 15770 # 1740 USA: WRMI-Okeechobee poor-fair w/Supreme Master TV in EE 3/5 JM

All of John's loggings were made on the Twente sdr (#) in Enschede in the Netherlands.  
*(Thanks for your list of logs John. More to come next month I hope. Ed)*

Meanwhile your Ed has been active and logged Absolute Radio 40's with a special 24 hour VE Day broadcast. This was a joint cooperation between Absolute Radio and the Audio Content of Absolute Radio 40's. Stations logged were: Absolute Radio 40's 1197 Brighton-Southwick 1.1 Kw; 1215 Droitwich 52.5 Kw; 1233 Manningtree 500 w and 1260 Lydd-Romney Marsh 1 Kw. (All heard on an sdr located in Brentwood, Essex in England). Reports also out to: CJWW 600 Saskatoon and KGEZ 600 Kalispell, Montana (Both logged on an sdr located in Victoria BC) and last but not least WQFG689 1710 kHz New Jersey Office of Emergency management with COVID-19 coverage information (logged on an sdr located on the border of Connecticut and Rhode Island);

One QSL in so far this month and that is for the **KJJR 880 DX test** – Whitefish, Montana from V/s Paul Walker Jr. Paul who has been a DXer for 25 years. As well as confirming my report he commented “Sorry the QSL is simple, but I wanted to make this all around easy for all involved since it was last minute. We are doing ok here in Wyoming, which is one state over from KJJR. No total lock down, just closures of certain businesses“. Paul also said that transmission was 10 Kw non-directional. This QSL was in reply to a report for reception on the League's Russell sdr and also for reception on an sdr in Newport, Oregon.

Some highlights of the Dx Test heard were as follows:

00:49 a short burst of sweep tones was heard  
 00:51 a cw message was being broadcast: (see cw message below) some whoosh sounding tone or tone sweeps were transmitted repeatedly followed by a single continuous tone male announcer with identification: test over the start and the tone was transmitted end of this announcement “ The Flathead's best talk 880 and 107.9 KJJR”. A single continuous tone was transmitted - tone stopped then continued - tone stopped and another single continuous tone was transmitted – probably of a different frequency. Some strange sounds were broadcast – possible telephone type sounds. Some brass band music was played  
 00:58/45 A CW message was then broadcast: “ V V V DE KJJR KJJR KJJR WHITEFISH MT ”. A female announcer spoke: “ This has been a special transmission for distant listeners sponsored by the National Radio Club of America and the International Radio Club of America. We would like to thank ..... distant listeners.” Towards the end of this announcement by female announcer a male announcer came up over female speaker and mentioned “... 880 and 107.9 ....” Perhaps this was a KJJR id played over the end of the test id. by female speaker.  
 01:00/10 KJJR then seem to leave the air and the only stations heard after this was a jumbled mix of News Media 880 (KCMX) and KIXI 880

Well that about wraps it up for this the first column of the SDR page. Hope you like what you see and I look forward to receiving contributions for next month's pages.

# TV/FM NEWS & DX

Editor

Paul Rawdon  
Christchurch

email  
nzrdxltvfm@gmail.com



Welcome to the June instalment, as we are now in the quiet part of the year, your contributions on anything that is related to TV and FM DX will be most welcome. Especially any midwinter DX that you might observe.

**Oriana TV** is a new free to air station that will use Freeview channel 200 (Kordia's channel) and will be on air on a Sunday and Wednesday. It began on 10 May. Oriana TV is a platform for the Pacific community and will be on air every Sunday from 3pm to midnight and Wednesday from 4pm-midnight. There is also a web stream. David Ricquish, Wellington

**Brian Withers, Napier** has news of the pirate that he has been following: Hawkes Bay FM pirate on 89.1 with id "Hawkes Bay's low powered Mai FM for a requests go to Mai FM .com web site " from Hastings at Avenue Road West . Not from Napier as reported last month with id I FM. Mainly noticed on the air Friday & Saturday night on between 5 or 6 pm. Signal poor to fair.

## News from elsewhere:

**Analogue TV still lives – Just ...** VHF Skip Yahoo Group, member Hugh has noted the Northern Hemisphere SpE season has started with positive results. He has managed to receive analogue TV stations on air in Morocco, the Dominican Republic and Venezuela. He is located in Portugal. The Moroccan station at Tazekka near the northern Algerian border is worthy of mention because it is the last of the analogue stations remaining on air in Morocco. Hugh's reception can be viewed here: <https://youtu.be/3iTGJC27de0>. He commented that the transmitter was looking a little worse for wear.

**A little longer:** Although full powered analogue stations in the United States, converted to digital in 2015 this did not apply to the providers of LPTV (locally orientated services) or low powered translators. They are limited to an effective radiated power of 3 kilowatts (VHF) and 150 kilowatts (UHF). The end is nigh, the FCC has determined that all stations are to switch to digital by 13 July 2021 <https://www.fcc.gov/consumers/guides/low-power-television-lptv-service>. Already some local analogue TV DX has been occurring.

## FM DX with a twist

Meanwhile, over at Hard Core DX Paul Walker has been having success with the reception of KDRT a 100watt community station in Davis, California on 95.7 at his QTH in Laramie, Wyoming 1400 KM away. While not truly exceptional distance and power wise, what was of significance was the amount of interest the station took in his reception report. Especially, when the presenter of the programme he based his reception report on got involved. What resulted was a considerable amount of good will. You can read the discussion between the pair in the presenter's blog entry here: [https://kdr.org/blog-entry/little-bit-magic-whole-lot-fm-radio-skip?fbclid=IwAR2T4EZ8q7uF\\_rpGSxwWQGLIEVJGUTx0Sa7uq1hrol9ySyPF4YRnorkYdaE](https://kdr.org/blog-entry/little-bit-magic-whole-lot-fm-radio-skip?fbclid=IwAR2T4EZ8q7uF_rpGSxwWQGLIEVJGUTx0Sa7uq1hrol9ySyPF4YRnorkYdaE)

Continued on page 39

# UTILITIES

**Editor**

**Arthur DeMaine  
Ashburton**

**email**  
nzrdxlutilities@gmail.com



When we went into Level 2 a holiday beside the sea was called for so we headed away to Jacks Bay which is situated on the coast near Owaka. Radio conditions were not that good or perhaps it was just that my EWE aerials that were not up to it. Any we enjoyed our time away. Mike Jackson reports plenty of time for dxing and logging but it had been difficult to find all but local signals but with overnight recordings and greyline listening made some good loggings, thanks Mike.

## **FREQ UTC DETAILS OF TRANSMISSION**

3330	0453	CHU Canada time station male "CHU Canada" fair 25/5 ABD
3413	0548	Shannon Volmet woman with aero weather poor 25/5 ABD
5450	0452	RAF volmet woman with weather reports fair 25/5 ABD
5505	0450	Shannon volmet woman with aero weather reports fair 25/5 ABD
5529	0845	Alaska HFDL ground station squitter 04/05 * MJ
5529	0937	Alaska HFDL ground station squitter 12/05 * MJ
5655	1916	Manila calls Etihad 424 and SELCALs on CLDQ but gets no response 01/05 * MJ
5670	1918	Colombo advises Qatari 957 to continue on CPDLC and sends a SELCAL check on JKEP 01/05 * MJ
5670	1653	Colombo wkg Reach 145 and reads back they are FL340 and estimating DABAP 1800, continue CPDLC, secondary is 3470 and sends a SELCAL check on BMFP (C5M 87-0028) 04/05 * MJ
6604	0721	Gander Canada male with aviation weather poor fades 25/5 ABD
6604	0853	Gander VOLMET with weather for Gander 04/05 * MJ
6661	0950	New York HFDL Ground Station squitter 10/05 * MJ
6754	0532	Trenton Canada male with aviation weather fair 25/5 ABD
6754	0824	Trenton VOLMET very faint but there with weather for Winnipeg 13/05 * MJ
7850	0720	CHU Time station Ottawa, Canada, 444 fair GD`
8176	0750	VMC Coastal water forecast for Victorian waters good 26/5 ABD
8847	1831	IAF Nevatim ALE/USB sounding TWS (from AAA) 25/05 ** MJ
8867	0937	Chilean Airforce 985 calls Nadi and reports LEKAX 0937 FL340 VIRAR 0958 LTO next 30/04 * MJ
8867	2220	Nadi wkg COTAM1012 with a SELCAL check on AQEK (A332 F-UJCH) 03/05 * MJ
8867	0322	COTAM 1193 calls Nadi but comms is difficult so Nadi asks them to contact on 13261 05/05 * MJ
8867	0045	Cotam 1193 wkg Auckland with positions 17/05 ** MJ
8867	0006	Kiwi 366 working Nadi and advising CPDLC connected. SELCAL check from Nadi is good on BGCL (NZ7001 C130H) 18/05 ** MJ
8867	0019	QFA7552 advises they are 40 miles east of MADEP and CPDLC and SELCAL check is good on DKEM (N854GT B748) 18/05 ** MJ
8879	1230	Brisbane responds to a call from N588TN (GLF5) en route from Kuala Lumpur

to Diego Garcia and advises the aircraft at LATEP to call Diego Garcia on VHF 126.2 25/05 \*\*MJ

8942 0916 Manila is sending Reach 473 many SELCAL checks on BLAS (C-5M 86-0026) but in the end advises them to maintain a listening watch 10/05 \* MJ

8957 0525 Shannon volmet woman with ID " This is Shannon volmet, Shannon volmet" fair 25/5 ABD

11300 1958 Mazoon 1004 calls Mogadishu but no reply 04/05 \* MJ

13254 0343 Blackcat 01 working Canberra Control with ops normal report and will report again at 0415 12/05 \* MJ

13254 0415 Blackcat 1 to Canberra Control and reports posn 39 14S 144 16E 12/05 \* MJ

13270 0221 Gander VOLMET with weather for Toronto 08/05 \* MJ

13303 2130 Canary Islands HFDL ground station squitter 03/05 \* MJ

13303 2145 Canarias HFDL ground station squitter 10/05 \* MJ

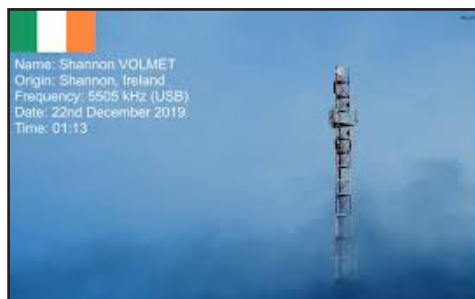
## CONTRIBUTORS

**ABD** Arthur De Maine, Jacks Bay

Elad FDM-S2 SDR Two 3m EWE, one NNE and the other South.

**MJ** Mike Jackson, Palmerston North

Airspy HF+Discovery and \* logged using Delta Loop, \*\* logged with MLA-30 active loop.



**NRC-CARC**
ontariodxr.blogspot.com

CHU time signals are transmitted continuously on 3 330, 7 850, 14 670 kHz, from individual vertical antennas located at 45° 18' N, 75° 45' W, with powers of 2.5 and 3 kW respectively. An AM compatible mode (RDE, upper SSB with carrier reinserted) is used. Carrier frequencies, and the onset, frequency and phase of the 1 kHz tones whose beginnings mark the seconds are all controlled from a common frequency standard. A time announcement is made just before the start of each minute, in English and French. A computer-readable code (RCL 103 modern at 3000psi) is appended to seconds 31-39. Its decoding is described on the NRC website at: [nrc-crc.gc.ca/shortwave](http://nrc-crc.gc.ca/shortwave)

Les signaux horaires CHU sont transmis d'une façon continue à 3 330, 7 850 et 14 670 kHz, d'antennes individuelles verticales situées à 45° 18' N, 75° 45' O, de puissance 2,5 et 3 kW respectivement. On utilise un mode AM compatible (RDE, à bande latérale unique supérieure avec portuseure réinsérée). Les fréquences des portusesures, et le début, la fréquence et la phase des traits sonores (1 kHz) dont les débuts marquent les secondes, (provenant d'un étalon au césium). L'heure est annoncée immédiatement avant chaque minute, en français et en anglais. Un code numérique est donné pour les secondes 31-39. Les ordinateurs peuvent le décoder en utilisant un mode de type Bell 703 à 300 tps, tel que décrit au site du CNRC à: [nrc-crc.gc.ca/ondescourtes](http://nrc-crc.gc.ca/ondescourtes)

Thank you for your report of reception on [4.310 kHz](http://4.310.kHz) - 7 850 kHz - 14 670 kHz

Merci pour votre rapport de réception sur [4.310 kHz](http://4.310.kHz) - 7 850 kHz - 14 670 kHz

Date and time of reception: **20/6** **04:15-04:50 UTC**  
 Date et heure de réception: **Apr 1 11**

# LADDERS & CONTINENTS



Editor

email

Sutton Burtenshaw nzrdxlladders@gmail.com

Hamilton

MEDIUMWAVE OPEN (Over 500)	A/NZ	Pac	NAm	CAm	SAm	Eur	Af	Asia	Cnt	Dec	Jun	Inc	
Ray Crawford	900	128	414	86	111	132	46	569	189	2390	2390	0	
Douglas Johns										1146	1146	0	
Sutton Burtenshaw	442	69	337	43	39	47	3	120	108	1103	1106	3	
David Ricquish	501	93	195	22	6	8	0	46	67	871	871	0	
Stuart Forsyth	502	34	118	14	23	93	1	38	75	824	827	3	
Bryan Clark										122	696	698	2

## SENIOR (301 - 500)

Günter Jacob	0	0	7	0	0	361	10	11	59	389	389	0
Mike Smith	102	31	152	12	12	10	2	23	62	353	357	4

## FM-TELEVISION

Douglas Johns										1212	1212	0
Bryan Clark									6	164	164	0

## SHORTWAVE OPEN (Over 500) n.b. \* next to Sth America total means you have verified ANTARCTICA

SHORTWAVE OPEN (Over 500)	A/NZ	Pac	NAm	CAm	SAm	Eur	Af	Asia	Cnt	Dec	Jun	Inc	
Ian Cattermole	314	613	664	352	395*	3626	509	1889	209	8362	8362	0	
Günter Jacob	305	366	365	172	202*	1931	551	1585	176	5482	5482	0	
Douglas Johns										3223	3223	0	
Ray Crawford	178	111	186	120	274*	929	282	565	233	2646	2646	0	
John Durham	116	95	224	113	152*	983	252	551	266	2514	2521	1	
Bryan Clark										244	1636	1636	0
Stuart Forsyth	62	32	16	16	34*	218	53	219	115	657	657	0	

## INTERMEDIATE (151 - 500)

Sutton Burtenshaw	7	3	32	11	19	90	14	44	48	220	220	0
-------------------	---	---	----	----	----	----	----	----	----	-----	-----	---

## UTILITIES

Douglas Johns										37453	37453	0
Günter Jacob									14	18	18	0

**COMMENT:** Well, slimmer pickings for verifications than what I was hoping for. **Stuart Forsyth and Sutton Burtenshaw** have a grand total of three each for the MEDIUMWAVE OPEN section while in the SENIOR section **Mike Smith** eclipses their totals to four. However in the SHORTWAVE OPEN section **John Durham**, the only SHORTWAVE entrant and in the OPEN section has a total of seven. I guess it is a sign of the times (no pun intended) but I had hoped with all the activity reported on dxdialog there may have been more email responses. Another period coming up.  
Best DX to everyone.....Sutton.

Continued from page 40

2020); and (6) "Radio Vila: The First Shortwave Era in the South Pacific Islands of Vanuatu" (Wavescan N585, May 10, 2020).

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, May 24, 2020 -- Under "DX History/Equipment & Advertising" we continue posting miscellaneous receiver spec sheets, this time from the 1970s. Spec Sheets II contains these: Barlow Wadley XCR-30, McKay Dymek DR 22C (1975), McKay Dymek DR 33C (1975), Yaesu FRG-7 (1976), Panasonic Command Series [RF-2200/2800/4000] (1977-1982), SONY ICF-7600 (1978), Drake R-7 (1979), Kenwood R-1000 (1979), Panasonic RF-9000 (1981), and Panasonic RF-6300 (1982).



Continued from page 35

### **Dabbing (not the dance)**

In the UK the DAB radio debate has opened again with regulator OFCOM (Office of Communications) tendering 25 DAB licences for local area community stations. It is touted as a low cost way for community groups to get on air. OFCOM have been trying to get broadcasters to switch from analogue radio to digital for some time and this is their latest attempt [https://www.theregister.co.uk/2020/04/08/ofcom\\_offers\\_dab\\_digital\\_local\\_radio\\_licences/](https://www.theregister.co.uk/2020/04/08/ofcom_offers_dab_digital_local_radio_licences/)

### **Remote tuners**

To join in the DX fun the guys in the Northern Hemisphere are enjoying, logging on to a remote tuner is a possibility. Global Tuners <https://www.globaltuners.com/> have a number of receivers that cover the FM band. Membership is free. Additionally there is also the <https://sdr.hu/> site. This requires registration and is intended for hams but anything in the call sign field seems to work when you register

That's it for this month, be kind, take care.



Mike Smith's home location. No wonder he can shake hands with the Australian AM stations!



The new League SDR set up and ready to go. It is amazing something so small hears so much! I presume the black box is the Kiwi SDR!





# On the shortwaves.com

From NZRDXL member Jerry Berg, 38 Eastern Avenue, Lexington, MA 02421, USA  
**NEW HISTORY MATERIAL AT <http://www.ontheshortwaves.com>**

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, May 3, 2020 -- If you could use a little DXercise to counter COVID vegging, check out the two items we have posted under "DX History/QSLs & Other Station Memorabilia." One is an exercise folder from mediumwaver CMCQ, Havana, Cuba, and shows 12 exercises to keep you fit. From the Dave Thomas materials, it is probably dates from the period 1930-1932. The other item is an exercise folder from the African Broadcasting Company Ltd., which operated from 1927 to 1936 (when the SABC came into existence). It shows an exercise routine for each day of the week, and it also lays out "Fourteen Rules of Health." Nothing about wearing masks. I like #13: "Be cheerful, and learn not to worry."

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, May 10, 2020 -- We have on hand a bunch of receiver spec sheets from (mostly) the 1950s through the 1980s that should bring back some nice memories. No doubt many of these sets--at least the "newer" ones--are still in use, or at least occupying places of honor in DX attics and closets. We will post these sheets in several groups, oldest sets to newest, under "DX History/Equipment & Advertising." The first group, Spec Sheets I, covers these sets: Hammarlund HQ-120 (1938), Hammarlund HQ-145 (1959), Hammarlund HQ-180 (1959), National HRO-500 (1964), Galaxy R-530 (1967), Hallicrafters SX-122A (1967), Drake SW-4A (1967), Hallicrafters SX-133 (1968), and Drake SPR-4 (1969). More to come. -- And under "Specialized Resources/The DX Recordings of Colin Miller," we have posted one of Radio Afghanistan, from the early 1970s. Tnx, Colin.

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, May 17, 2020 -- Under "DX History/Stations," we have posted a file on Radio Commerce, Port-au-Prince, Haiti, which was active in the 1950s and 1960s on 49 and 31 meters. The file includes some loggings of the station taken from the NNRC bulletin, together with two QSLs and a French-language brochure which the station sent out. -- We have added two new clandestine QSLs to the clandestine section of "The CPRV Gallery," both in the "Asia (including Middle East) and Pacific" category. They are: (1) Iran – The Voice of Fedaii, which was a communist station broadcasting in opposition to the Iranian government. And (2) Palestine - Al Qods Radio. According to the 1993 DSWCI Clandestine Stations List, Al-Quds Radio, the Palestine Arab Radio, was run by the Popular Front for the Liberation of Palestine-General Command, headed by Ahmed Jabril. PFLP-GC was supported by Syria, Libya, and possibly Iran, and was located in Damascus (this QSL was mailed from Damascus). The station was first reported heard in 1988. -- And thanks to Adrian Peterson, who has been busy updating the Wavescan entries, which are in "Specialized Resources." He has filed six new stories: (1) "The Radio Scene at the Sinking of the Graf Spee" (Wavescan N577, March 15, 2020); (2) "The First Wireless/Radio Station in Greenland" (Wavescan N580, April 5, 2020); (3) "Paraguay on Mediumwave" (Wavescan N582, April 19, 2020); (4) "Another Chapter in the Radio Scene on the Islands of Vanuatu" (Wavescan N583, April 26, 2020); (5) "Ancient DX Report 1921" (Wavescan N583, April 26, 2020).  
**Continued on page 39**