

# SHORTWAVE BULLETIN

Issue no. 1922, April 21, 2019.

Deadline e-mail next issue: 0800 UTC, May 6, 2019.

Please note that deadline for next issue is one day delayed. The reason is the ARC/SWB convention in Jönköping that weekend.

Ilpo Parviainen, the creator of the very sophisticated software for MW – Jaguar -will attend on Saturday. It will be a good opportunity to hear about the future plans. There are so much goodies already incorporated, but I know there are many future plans to help the active DX-ers.

Thanks to Anker Petersen we can present the latest trends in tropical bands broadcasting for 2019. As you can see only very few stations remain. Very sad.

We can also show you some nice QSL's from the past thanks to John Ekwall and Ronny Forslund who both enjoy digging in the drawers at old DX-ers.

In A-DX Christoph Ratzler has presented an interesting article in German about a new approach to grey-line DX-ing.

Keep on ....

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## SWB-info

**SWB on HCDX:**

<http://www.hard-core-dx.com/swb>

**SWB member information:**

<http://www.hard-core-dx.com/swb/member.htm>

**Dateline Bogotá 1993-1998:**

<http://www.hard-core-dx.com/swb/Dateline.htm>

**SWB latest issue/archive:**

<http://www.hard-core-dx.com/swb/archive.htm>

## QSL, comments, etc.

### Angående nostalgiinlägg publicerade av Ronny Forslund i SWB och MVE

Det har kommit till vår kännedom att någon haft synpunkter på publiceringen av Lasse Rydén's gamla QSL i SWB och ARC.

Lasse Rydén har varit mycket positiv till att Ronny Forslund lagt ut hans QSL i MVE och SWB. Han har även föreslagit QSL att lägga ut senare som han tror kan intressera medlemmarna.

Lasse har från någon erfarit att det vore bättre att endast lägga ut QSL från endast nu aktiva medlemmar. Det har resulterat i att LR för tillfället önskar att vi ska göra ett uppehåll i att publicera hans QSL och det får vi naturligtvis respektera.

Men det kan inte vara riktigt att någon skall kunna påverka tidigare medlemmar i SWB/ARC på ett sådant sätt att deras intressanta gamla QSL inte kan visas i våra publikationer.

Som redaktör har jag fått många positiva reaktioner på dessa nostalgiinlägg och då inte bara på det Ronny Forslund lagt ut utan även från John Ekwall och andra. De flesta uppskattar att kolla in QSL från riktigt gamla samlingar och det är ett av de trevligaste inslagen i bulletinerna. Det finns flera väl bevarade samlingar av gamla verifikationer, QSL, brev, vimplar och annat material som absolut inte borde ligga i nån byrålåda och samla damm.

Ronny Forslund säger att Lasse Rydén har samtyckt till att hans samling läggs ut på dxbooken.com vilket också kommer att göras när större mängder QSL finns inskannade. Hans samling och andra samlingar som anförtröts honom kommer att bevaras intakta för eftervärlden och inget kommer att säljas.

Avslutningsvis:

Vi får hoppas att Lasse Rydén ändrar åsikt om han får positiv respons från läsarna på publiceringen av hans material.

Jag tycker detta är en viktig sak då jag vet att det är ett uppskattat inslag i våra bulletiner och ber därför så många som möjligt att skriva några positiva rader så att vi kan få Lasse Rydén på andra tankar. Skickas till min mailadress: [thomas.nilsson@ektv.nu](mailto:thomas.nilsson@ektv.nu)  
(Thomas Nilsson)

### Ullmar Qvick. Info from Superclan Radio:

*Hi Ullmar, Thanks so much for your very nice reception report. Glad you enjoyed the program and the music. As you may have seen, Channel 292 will be off the air during the Easter holiday so there won't be a broadcast from Channel 292 at Easter. However, because I like continuity, I therefore purchased a 150 watts shortwave transmitter and will broadcast the regular SuperClan Radio program between 9-10 CET on 6070 at its regular weekly time from a secret location in the Netherlands. Maybe you can try to give it a listen :-).*

Kind regards, Herbert Visser

3215	Apr7	0355	WWCR, Nashville, TN English religious talk (AP-DNK)
3310	Apr14	0002	Radio Mosoj Chaski, Cotapachi, Quechua, comments. (Méndez)
3310	Apr16	2209	R. Mosoj Chaski, Cochabamba. Quechua, tks, mx. 25331 (CGS)
3310	Apr14	0112	R. Mosoj Chaski, Cochabamba, tent tk. (TB)
3325	Apr17	1305	Voice of Indonesia, via RRI Palangkaraya, 1305 & 1349. Good level carrier. A brief check at 1359, on April 18, found no signal at all; recently had been regularly heard with only a carrier, but that was absent today. Hope they are working to fix the transmitter! (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)
3915	Apr4	*2200-	BBC, Kranji relay. WS in E to SEAs, IS, nx. 45333 (CG)
3930	Apr12	2102	Voice Of The People (cland.), Goyang. Kor to KRE. Jammed. Better on // 3910. 24331 (CG)
3950	Apr18	0030	Xinjiang PBS, Urumqi Chinese conversation // 5060 and 5960 (AP-DNK)
3975	Apr6	1650	Shortwaveradio, Winsen English pop songs // (6160 was not heard) (AP-DNK)
3975	Apr13	2121	Short Wave Radio, Winsen. E, pops. 35433 (CGS)
3985	Apr6	1700	Shortwaveservice, Kall-Krekel 1700 English ID: "Shortwaveservice", French. (AP-DNK)
3985	Apr6	1725	R Echo of Hope, Gyeonggi-do, South Korea. QRM SW Service fading out (AP-DNK)
3990	Apr18	0035	Xinjiang PBS, Urumqi Uighur talk. QRM Gannan PBS, // 4980 QRM WRMI, 6120 QRM WWCR on 6115 in English) and 7205 (AP-DNK)
3995	Apr6	1710	HCJB, Weenermoor German ann request programme, hymns (AP-DNK)
3995	Apr18	0045	Life FM, via HCJB, Weenermoor, song: "Let's go down to the Window" // 5920 (AP-DNK)
4010.22	Apr18	0050	Birinchi R, Krasnaya Rechka Kyrgyz songs (AP-DNK)
4500	Apr18	0055	Xinjiang PBS, Urumqi Mongolian talk // 6190 (AP-DNK)
4750	Apr14	1620	Bangladesh Betar, Shavar Arabic talk, Arab song, 1628 Bangladesh trumpet melody, 1630 time pips, Bengali ID, local flute music, talk (AP-DNK)
4765	Apr18	0100	Tajik R 1, Yangiyul. Tajik ann, ID: "Radioi Tojikiston", QRM R Progreso, Cuba (AP-DNK)
4765	Apr19	0350	R Progreso, Bejucal Spanish ann, Cuban songs (AP-DNK)
4775	Apr14	0440	Radio Congonhas, Congonhas, Brazilian songs. (Méndez)
4775	Apr14	2116	R. Congonhas, Congonhas MG. Tks on f/ball. 25342 (CGS)
4800	Apr13	1730	AIR, Hyderabad English news from Delhi QRM China, // Bhopal 4810 (AP-DNK)
4805	Apr17	2147	R. Dif. <sup>a</sup> do Amazonas, Manaus AM. Tks. Adj. QRM. 24341 (CGS)
4820	Apr14	1640	Xizang PBS, Lhasa, Tibet Chinese ann with music behind // 5935, 6050, 7240 and 7450 (QRM 7445 BBC Talaty Volonondry in English) (AP-DNK)
4840	Apr18	0105	WWCR, Nashville, TN English religious talk (AP-DNK)
4850	Apr18	0110	Xinjiang PBS, Urumqi Kazakh songs // 6015 QRM CRI on 6020 in English) (AP-DNK)
4885	Apr14	1650	R Echo of Hope, via Taereung, South Korea Korean and U.S. songs ("I did it my way") // 5995 and 6250 both jammed (AP-DNK)
4885	Apr16	2152	R. Dif. <sup>a</sup> Acreana, Boa Vista AC. Songs, stn sl. RDA-A Voz da Selva, anns., advs., nx at 2200. QRM de B. 33431 (CGS)
4885	Apr14	0405	Radio Clube do Pará, Belém, Brazilian songs, some songs in English, "Clube da Madrugada", Portuguese, comments. (Méndez)
4885.03	Apr18	0115	R Clube do Pará, Belém, PA Portuguese talk (AP-DNK)
4905	Apr14	0605	Radio Relógio Federal, Rio de Janeiro, songs. Extremely weak, best on LSB. (Méndez)
4929.95	Apr19	0330	VOA, Moepeng Hill - Off freq. EE ID: "VOA", comments on the Mueller Report (AP-DNK)
4949.7	Apr14	1943	Radio Nacional de Angola, Mulenvos, comments. Very weak. (Méndez)
4955	Apr14	0005	Radio Cultural Amauta, Huanta, comments. Extremely weak, only audible on LSB. (Méndez)
4960	Apr7	0415	VOA, Pinheira English comment about the Senate (AP-DNK)
4965	Apr10	1834	Voice Of Hope, Makeni Ranch. E, rlg. propag. // 6065. 25332 (CG)
4985	Apr16	2201	R. Brasil Central, Goiânia GO. Natl. nx magazine A Voz do Brasil. RTTY QRM. 23441 (CGS)
4990	Apr14	0530	Radio Apintie, Paramaribo, pop songs in English. (Méndez)
5005	Apr11	*0527-	Radio Nacional, Bata, Spanish, comments, African songs, at 0600 news. Apr 13 and 14 seems to be out of air. (Méndez)
5025	Apr19	0335	R Rebelde, Bauta Spanish talk CWQRM in LSB (AP-DNK)
5035	Apr17	2145	R. Educação Rural, Coari AM. Songs px. 35332 (CGS)
5040	Apr13	-1742*	AIR, Jeypore Hindi news from Delhi, 1740 closing ann // 4810 (AP-DNK)
5040	Apr19	0340	R Habana Cuba, Bauta Spanish talk about Cuba, Cuban music (AP-DNK)
5050	Apr18	1400	Beibu Bay Radio. Brief intro in English ("B B R Evening News"), followed by news in Vietnamese. (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)
5085	Apr19	0345	TWW, Lebanon, TN English religious talk, light music (AP-DNK)
5285	Apr18	1418	USB, VC01. Chinese military numbers station; in Chinese, reading out numbers; fair reception (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)

5825	Apr13	1350	OZ-Viola, Hillerød via groundwave English ann, ID, non-stop music and songs. Also heard 1430-1500 on European Kiwi SDR receivers (AP-DNK)
5840	Apr11	2116	World Music R, Karup. Mx & songs. Adj. uty. QRM. 24331 (CG)
5915	Apr14	0353	Zambia NBC, Radio 1, Vernacular comments. (Méndez)
5915	Apr17	0311	R. One/ZNBC1, April 17, noted off the air after checking at 0254+ on 5915, from 0311+, finally back with their normal format; 0415 distinctive GOtv promo; 0421 brief call of the fish eagle, along with brief music before the start of the news (vernacular); 0459 ad and into the news in English (unreadable). Thanks very much for the feedback from Bill Bingham (RSA). Always appreciate his observations and comments! (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)
5915	Apr17	2137	ZNBC-R. 1, Lusaka. Vn, songs, phone-ins. 35343 (CGS)
5939.7	Apr14	2107	R. Voz Missionária, Camboriú SC. Brassband mx. 35443 (CGS)
5945	Apr18	1003	R. NZi, Rangitaiki. E, tks. Unreadable. 15341 (CGS)
5950	Apr6	1814	R. Voice Of The Tigré Revolution, Geja Jawe. Vn, radio play (p). 35343 (CG)
5950	Apr13	1701	Voice of Tigray Revolution, Addis Ababa, Vernacular comments. (Méndez)
5950	Apr19	0355	Voice of the Tigray Revolution, Addis Ababa Tigrinya talk, Horn of Africa flute (AP-DNK)
5952.4	Apr14	0003	Radio Pio XII, presumed. Extremely weak. Barely audible in LSB. (Méndez)
5980	Apr6	1342	RNZI choral music at S9 so today has switched from 5945 unlike yesterday after 1300. Meanwhile I sent my earlier A-19 obs to Adrian Sainsbury, who replied: ``Hi Glenn, Thank you for the feedback. There is no change planned at present. I am visiting Samoa and Tokelau Islands for the next 2 weeks. It will give me the opportunity to do some monitoring and help decide if any change is required for our target area. Re 5980 the 6 MHz band is crowded and it is difficult finding a clear channel for the long periods we require. Replacing 9630 will be an easier to achieve. Regards, Adrian Sainsbury   RNZI Frequency Manager, RNZ   Level 2, 155 The Terrace   PO Box 123   Wellington   New Zealand`` (Glenn Hauser, OK)
5980	Apr6	-1858*	R. NZi, Rangitaiki. E, nx at 1800, short stories, fq change ann., IS. Adj. QRM. 44343 (CG)
5985	Apr10	1255	Myanmar Radio. The 10 minute Wednesday language lesson called "Learning English with BBC"; semi-readable, in English and Burmese. Program is probably also carried on Monday, but have not confirmed that. Extensive website - <a href="http://www.bbc.co.uk/learningenglish/">http://www.bbc.co.uk/learningenglish/</a> (Ron Howard, Asilomar State Beach, CA, USA)
5995	Apr4	1850	R Mali, Bamako. Afropop. (QRM Echo of Hope on 5995 in Korean) (AP-DNK)
5995	Apr14	*0559-	Radio Mali, Bamako, tuning music, id. "Vous écoutez le Office de Radiodiffusion Television du Mali, emettant de Bamako...", at 0701: "ORTM, la passion du service public, Radio Mali", French and vernacular comment, at 0759 tuning music, id. and close. (Méndez)
6010	Apr14	0433	Radio Inconfidencia, Belo Horizonte, Brazilian songs. (Méndez)
6010	Apr14	2112	R. Inconfidência, Belo Horizonte MG. Tks. Adj. QRM. 24331 (CGS)
6015	Apr14	*0400-	Zanzibar Broadcasting Corporation, Dole, Swahili, comments. (Méndez)
6015	Apr18	0528	Radio Romania International. Ex 6080; their IS followed by programming in English; (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)
6035	Apr10	1157	FM99 relay via PBS Yunnan. Commercial announcements till time pips (almost a minute late); FM format, in Chinese; station's singing jingle ("Radio Shangri-la"); station's slogan in English fairly readable ("Flying with the heart, traveling with the sound of Shangri-la"); one of their better days. BBS (Bhutan) went off the air here today at 1137* (Ron Howard, Asilomar State Beach, CA, USA)
6050	Apr14	-0500*	HCJB, Pichincha, religious songs in Spanish, news and religious comments in Spanish, at 0500 identification "HCJB, 89.3 FM Pichincha son las... horas", time signals. Close. From 0400 to 0456 strong QRM from Algeria on the same frequency. (Méndez)
6050	Apr14	0603	ELWA Radio, Monrovia, music, religious songs in English. (Méndez)
6065	Apr10	1835	Voice Of Hope, Makeni Ranch. E, rlg. propag. // 4965. 54433 (CG)
6070	Apr14	0355	CFRX, Toronto, comments, news, advertisements. (Méndez)
6070	Apr13	*0800-	Atlantic 2000 International, Rohrbach, tuning music, id. "Your are listening to Atlantic 2000 International, ...", French, id., pop songs, news of radio, Radio Andorra identification: "Aquí Radio Andorra", more pop songs. (Méndez)
6080	Apr15	2103	R. Marumby, Curitiba PR. Rlgs. propag. QRM de CHN (p). // 9515 rtd. 45343. 34342 (CGS)
6090	Apr13	1710	Voice of Amhara State, Addis Ababa, East African songs. (Méndez)
6110	Apr7	0430	R Fana, Addis Ababa Afar ann, Horn of Africa songs (AP-DNK)
6110	Apr13	1650	Radio Fana, Addis Ababa, Vernacular comments, East African songs. (Méndez)
6110	Apr18	1831	R. Fana, Geja Jawe. Vn, tks. Adj. QRM. 44433 (CGS)
6115	Apr14	-1830*	Radio Congo, Brazzaville, news, id. "Radio Congo". (Méndez)
6115	Apr18	0534	Radio Congo (presumed). In French; almost no "RN2 (Japan) QRM (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)
6115	Apr18	1830	R.Congo, Brazzaville. F, rlg. propag. Weak audio. Adj. QRM. 44443 (CGS)
6134.9	Apr16	2203	R.Aparecida, Aparecida SP. Natl. nx magazine A Voz do Brasil. QRM de BOL. 44433 (CGS)
6140	Apr14	1848	AIR, BGL, UR, IND mx tk ID. (TB)

6165 Apr18 1835 Voice Of Hope, Makeni Ranch. E, rlg. propag. 45444 (CGS)

6185 Apr14 -0506\* Radio Educación, Ciudad de México, songs, at 0457 Joan Manuel Serrat song, at 0502 anthem id. "Radio Educación, 1060 AM, Ciudad de México, 107.9 FM Mérida, 104.3 FM, Hermosillo, 96.5 FM, Ciudad de México, 95.3 FM, Morelia, y Cultura México, señal internacional en onda corta para todo el mundo, servir a más es servir mejor", music and close at 0506. Between 0359 to 0456 strong QRM from Romania on 6180. (Méndez)

6190 Apr13 -0600- Hamburger LokalRadio, Goheren, English, id. Hamburger LokalRadio, program "Media Network Plus", at 0630 Glenn Hauser's program "World of Radio". (Méndez)

6220.2 Apr14 -1802\* Radio Kahuzi, Bukavu, male, Vernacular comments, at 1756 female, French, religious songs, more Vernacular comments by male, religious song and close. (Méndez)

6280 Apr5 Sound of Hope. Regarding my April 5 recording (<http://bit.ly/2UxfYGd>) - Thanks very much to the on going excellent help from Amano-san (Japan), who provides the following info, via "Now On The Radio DX":  
*"The sound in your audio is SOH's "Tianxia zongheng", April 5 1900 CST news. The presenter of the news is "Yi Xiang". An archive of this news can be found at the SOH website below.*  
<http://www.soundofhope.org/gb/2019/04/05/n2783850.html>  
*Ron-san's audio 00:54-01:12*  
*Yi Xiang reads: Trump meets Liu He, saying that the US-China trade talks are nearing completion. Yunnan reproduces African pig plague. Hong Kong's Democratic Party asks Chief Executive Lin Zhengyue to step down. The biggest drug company in Germany, Bayer suffered. The CCP hacker was accused of being behind the scenes."*  
 (Ron Howard, Asilomar State Beach, CA, USA)

7180.03 Apr13 1745 Voice of the Broad Masses of Eritrea, Asmara Afar talk HAM QRM. (AP-DNK)

7204.98 Apr13 1750 R Omdurman, Al-Fatihab Arabic songs sporadic CWQRM. (AP-DNK)

7205 Apr13 1550 Sudan Radio, Al Aitahab, East African songs, Arabic, comments. (Méndez)

7265 Apr14 0935 Hamburger LokalRadio, Gohren, German, at 1000 English, "Media Network Plus" and at 1030 Glenn Hauser's "World of Radio". (Méndez)

7310 Apr14 \*1000- Radio Mi Amigo, Kall Krekel, pop songs and comments in English, id. "Radio Mi Amigo International". (Méndez)

7325.01 Apr8 0840 Wantok Radio Light, Port Moresby, checked now via SDR Kiwi remote receiver in Brisbane, audio heard, English, religious comments, male. (Méndez)

7365 Apr14 0905 HCJB Germany, Weenermoor, Palm Sunday mass in German. (Méndez)

7730 Apr15 2107 Sound Of Hope R Int'l (cland.), unk. site. Mand to CHN, tks, mx, mx. 35332 (CGS)

9300 Apr19 1328 JBA talk. Aoki/NDXC shows the complex schedule of TWR India, via Yerevan-Gavar site, this 1315 quarter-hour on day 6 = Friday as in the Kur language, shared with San, Mun and Kui depending on the DOW. Full name of language per WRTH is Kurukh, which was on 9365 in B-18. EiBi language list shows: ``KUR Kurukh/Kurux: India-Chhatisgarh, Jharkhand, W. Bengal (2m) [kru]`. Recently this was on 9330 by punchup mistake; not a good idea with the Superstation imminent (Glenn Hauser, OK)

9390 Apr11 1316 English announcement introducing Mandarin, S8-S4 with flutter. R. Thailand is back here for all languages 1200-1430, beam changes between each from Udorn, including the two English aimed 132 degrees at 1230-1300 & 1400-1430. Too bad the English is not on 30 degrees USward like Mandarin now. Other HSK9 English: 0000-0100 & 0200-0230 15590 to North America but inaudible here until maybe midsummer?; 0530-0600 17640; 1900-2000 & 2030-2045 9920 (Glenn Hauser, OK)

9505 Apr13 1630 Sudan R also noted from NZRDXL1 KiwiSDR (Bay of Islands NZ) at 1742 tune with Sudanese vocal/instrumental songs until the time pips at 1801.5 as noted by Richard - at 1817 a clear "Huna Omdurman" by male announcer. QRM from 9500 was so heavy that I needed USB to get clear reception. Once in a while I could go back to AM Narrow mode and the audio was much more pleasant until 9500 would start another music segment with very broad splash. Even with USB the signal improved from S2 to S3 from 1742 to 1830. (Bruce Churchill via WOR)

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9505 Sudan Radio ("Huna Omdurman") on 9505 kHz at 16:30 UTC this afternoon (13 April) rather than the Voice of Africa service as noted using the U. Twente SDR receiver. Only a weak signal with splash from RRI on 9500 kHz. Confirmed with stream from TuneIn (<https://tunein.com/radio/Sudan-Radio-from-Omdurman-910-s6979/>). Seemingly joyful music and a speech heard and then back to music. Then time pips around 17:05 UTC (!) and what appears to be a news bulletin and then back to music. (Richard Langley via WOR)

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Heh, Sudan time signal has been less accurate (late) for at least a decade or so. A good aid for ID'ing the station - echoed time pips and never at the TOH. (Jari Savolainen via WOR)

9505 Apr13 1725 Sudan Radio, Al Aitahaba, East African songs, Vernacular an Arabic comments. QRM from Romania on 9500. (Méndez)

9515	Apr14	2114	R. Marumby, Curitiba PR. Rlgs. propag. w/ songs in "estilo sertanejo" (Braz. country style). 45444 (CGS)
9550	Apr13	*0710-	Radio Guinée, Conakry, open at about 0710 with African songs, at 0729 catholic religious program "Le Jour du Seigneur", today about Palm and Easter Sunday "Special Dimanche des Rameaux et de la Passion" (Méndez)
9550.1	Apr13	2133	R.Boa Vontade, Pt.º Alegre RS. Rlgs. propag. & "música legionária". Adj. QRM. // 11895.1. 24442 (CGS)
9635	Apr14	*0800-	Radio Mali, Bamako, tuning music, African songs, Vernacular, comments. (Méndez)
9650	Apr17	2131	R. Guinée, Sonfonia. F, px on consummers. Adj. QRM. 43442 (CGS)
9664.5	Apr17	1748	R. Voz Missionária. Rlgs. propag. Improving albeit under adj. QRM after 1800. 25331 (CGS)
9664.515	Apr12	0610	RVM is S4-S7 of music, varied slightly upward but obviously now on the plus side of the halfway spot in BFO stepping 9664/9665 back and forth on the R-75. Last night while hunting for Cairo, had it on .511; no spurs noted now like on April 7-8 (Glenn Hauser, OK)
9671.3	Apr7	0553	& 9657.4, approx. spots where intermittent spur carriers with same talk modulation are spewing out of 9664.53, Voz Missionária, among others. These compute to plus 6.77 and minus 7.13 kHz from fundamental. First time noted any such problems from ZYE890 (Glenn Hauser, OK)
9680	Apr18	0523	Voice of Hope Africa, with a brief check at 0523; religious songs; thanks to Rich D'Angelo for the reminder about // 11680, which was heard with strong KCBS Pyongyang QRM on frequency (Ron Howard, Asilomar State Beach, CA, WOR iog via DXLD)
9700	Apr6	*1959-	R.NZi, Rangitaiki. *1959-2058*. IS, no audio for 1 min., E, nx, ..., interview on Norw. taxation, fq change ann., IS. 55444 (CG)
9818.7	Apr13	2010	Radio 9 de Julho, Sao Paulo, religious comments. (Méndez)
9818.8	Apr18	2207	R. 9 de Julho, São Paulo SP. Natl. nx magazine A Voz do Brasil. Adj. QRM de CHN on 9820. 34443 (CGS)
11665	Apr17	-1409*	Wai FM. Cut off in mid-song. Back to normal schedule. Thanks very much to Dan Sheedy for his input regarding this station! (Ron Howard, Asilomar State Beach, CA, WOR via DXLD)
11725	Apr6	*1959-	R. NZi, Rangitaiki. IS, E, nx, ..., mx. Deteriorating fast. 25432 (CG)
11780	Apr13	1957	Radio Nacional da Amazonia, Brasilia, "Estamos apresentando Musishow". (Méndez)
11815	Apr17	1213	R. Brasil Central, Goiânia. Nx. Fair signal & condx spoiled by vy. weak audio. 35443 (CGS)
11855.7	Apr13	2005	Radio Aparecida, Aparecida, religious comments: "Semana Santa na Aparecida". (Méndez)
11855.7	Apr13	2138	R.Aparecida, Aparecida SP. Rlgs. propag. Adj. QRM. // 9630.5 w/ weak audio. 34443 (CGS)
11885	Apr14	0820	KLS, Anchor Point (presumed), Chinese, comments, songs.Interference from other station in the same frequency. (Méndez)
11895.1	Apr13	2005	Radio Boa Vontade, Porto Alegre, religious comments. (Méndez)
11895.1	Apr18	1215	R. Boa Vontade. Rlgs. propag. 25432 (CGS)
15805	Apr13	1612	World Music Radio, Randers, Latin American songs, id. "World Music Radio", "Están escuchando World Music Radio". // 5840. (Méndez)

### Pirate stations:

5140	Apr18	2203	Charleston R Int'l - pir. E, oldies, fq. ann. 35443 (CGS)
5780	Apr14	1835	Harmony R - pir. E, songs & mx. 35443 (CGS)
6205	Apr15	2105	Laser Hot Hits - pir. E, pops. 45433 (CGS)
6210	Apr9	2151	Laser Hot Hits ? - pir. E, pops, tks. 35342 (CG)
6230	Apr17	2143	Coast FM (Canary Is. stn) via UNID, Irish? - pir. E, pops. 35433 (CGS)
6255.3	Apr6	1828	R.República da Banana - pir. Songs, mx. Adj. uty. QRM. Why a name in Portuguese?! ID via DX press. 23341 (CG)
6260.8	Apr7	1819	Blue Moon R (t) - pir. Pops. T-ID via DX press. 25341 (CG)
6269.6	Apr6	1832	R.Focus Int'l (p) - pir. E, pops. 25331 (CG)
6290	Apr7	1817	R.Joey (t) - pir. Pops. T-ID via DX press. 15341 (CG)
6295	Apr18	1833	R.Black Bandit (t) - pir. Songs, c&w. 35433 (CGS)
6305.1	Apr18	2205	R.Merlin (t) - pir. Songs. T-ID via DX press. 25342 (CGS)
6304.9	Apr13	2131	Blue Dragon AM - pir. Pops. T-ID via DX press. 35332 (CGS)
6320	Apr5	1831	R.Black Bandit - pir. Du/E, pops, c&w, mx. Joke ID as Amsterdam R ("beamed to So.Pacific!"). 45443 (CG)
6320	Apr18	1832	R.Joey (t) - pir. Mx. 35332 (CGS)
6320	Apr18	2206	R.Sovereign (t) - pir. Songs. 35443 (CGS)

## Contributors to the log:

wb, Wolfgang Büschel, df5sx, wwdxc BC-DX TopNews, DXLD, DXplorer, A-DX Glenn Hauser, Enid, OK, USA (also from WOR&DXLD) Ron Howard, Asilomar State Beach, CA, USA CG, Carlos Gonçalves, Lissabon, Portugal Méndez, Manuel Méndez, Lugo, Spain	AP-DNK, Anker Petersen, Skovlunde, Denmark TB, Tomas Burian, Morava, Moravia Richard Langley via WOR Bruce Churchill via WOR Jari Savolainen via WOR
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(CG)=Lisbon. JRC NRD-545DSP & PERSEUS *sdr*; homemade amp. (W7IUV version); 20 m & 16.7 m T2FDs, 5 MHz dipole, 6x19x6 m Ewe 135°, raised, 4 loop K9AY

(CGS) = SW coast JRC NRD-545DSP & DRAKE R8-E; *Advanced ReceiverResearch* amp.; 20 m T2FD, 30 m 180°/0° mini-Bev., 80 m 300°/120° Bev., 200 m 270°/90° Bev., 270 m 145°/325° Bev., 300 m 225°/45° Bev., raised, 4 loop K9AY.

## Station news

**AFGHANISTAN.** British DX Club har en fantastisk faktasammanställning om afghansk radio genom åren. Pdf på <http://bdxc.org.uk/afghan.pdf>

Men QSL? Ja vid starten med engelska 2011 kom svar, men jag misstänker att afghanerna har annat än QSL att tänka på. (Ullmar Qvick via NORDX)

**BASE ESPERANZA. 15476, LRA 36, Radio Nacional Arcángel San Gabriel,** Base Esperanza, I send an email to the station telling them the reception here in Lugo is very weak, and the best time to hear the station in Europe is the old one from LRA 26, 1800-2100 UTC, and they replay with a PDF letter and a photo.

In the letter they say they are on air since 19th March, short wave, 15476 kHz, Tuesdays and Thursdays from 0930 to 1100 Argentinian time (1230 to 1400 UTC), and they are working to schedule an evening program, to try to reach more listeners with best quality reception. (Manuel Méndez)

**BRAZIL. Rádio Serra do Roncador 6270 kHz** Ondas Curtas (Nova Chamada DJ Fernando da BR 158 e 163 Gospel Mix) Em breve em ondas curtas 400 watts de picos de potência. 750 KM com sinal muito forte e 1000 KM +++ por Propagação. Daniel Wyllyans & DJ Fernando da BR 163 e 158 [https://youtu.be/4U3w\\_g6NS2E](https://youtu.be/4U3w_g6NS2E) (Hard-Core-DX mailing list)

**CHINA.** Unusually today I have been bandscanning the entire 11-15 MHz OOB range for jammers, once one was found to be propagating, as I was originally looking for a Cuban harmonic on 12200.

12190, April 17 at 1234 Chinese at S3 // 6125 and 11785 where there is a mixture. This is one of countless CNR1 jamming frequencies as monitored by Wolfgang Bueschel during this hour, +3 Hz high.

13130, April 17 at 1242, another Chinese at S2 // 11785. Per wb`s report, another CNR1, vs Sound of Hope, the latter being +86 Hz high when he heard it, but not even a het from it here.

12820, April 17 at 1244, Chinese at S3. Wb`s report shows CNR1 on exact frequency, while target SOH when he monitored was -95 Hz low, inaudible here.

15110, April 17 at 1408, Chinese opera and talk at S9-S5, the only such signal inside 19mb; it`s CNR1 jammer against VOA Chinese via Philippines this hour only (Glenn Hauser, OK DXLD)

**PAPUA NEW GUINEA, 7325, Wantok Radio Light,** Port Moresby. In accordance with an email received right now (0608 UTC, 08 April) from the station, Wantok Radio Light is on air now. Here is the email:

*"Dear Manuel,  
Our shortwave service is back on now. The frequency is 7325Khz.  
Regards, Billy Yasi, Wantok"*

Checked via SDR Kiwi remote receivers in Brisbane (Australia) and North New Zealand, a weak carrier can be detected on 7325.01 kHz, but no audio heard. The station must be emitting with very low power. (Manuel Méndez)

**SUDAN.** On Sat, Apr 13, 2019 at 10:10 AM, Richard Langley wrote:

**Sudan Radio** ("Huna Omdurman") on 9505 kHz at 16:30 UTC this afternoon (13 April) rather than the Voice of Africa service as noted using the U. Twente SDR receiver. Only a weak signal with splash from RRI on 9500 kHz. Confirmed with stream from TuneIn (<https://tunein.com/radio/Sudan-Radio-from-Omdurman-910-s6979/>). Seemingly joyful music and a speech heard and then back to music. Then time pips around 17:05 UTC (!) and what appears to be a news bulletin and then back to music.

(Richard Langley via WOR)

-----  
Heh, Sudan time signal has been less accurate (late) for at least a decade or so. A good aid for ID'ing the station - echoed time pips and never at the TOH.  
(73, Jari Savolainen via WOR)

## Other radio news

### Marconi Day 2019

International Marconi Day will take place this year on 27th of April when amateur radio stations will operate from various locations around the world with historical connections to Marconi.

<http://www.southgatearc.org/news/2019/april/2019-marconi-day.htm>

Amateur radios, point-to-point contacts, high-frequency wave transfers, a mysterious yet attractive prize for the most connected stations. All of this sounds like the beginning of a quirky yet adorable B-movie. In reality, it is the essence of International Marconi Day, a 24-hour amateur radio event which celebrates the career of Italian wireless communications pioneer Guglielmo Marconi. The event takes place annually on the Saturday closest to his birthday (April 25, 1874).

To commemorate the Nobel laureate's achievements, fans use HF radio to make direct point-to-point contact between stations, relying on the same technology Marconi developed and utilized in his time. Although nowadays the Internet is the medium of choice for global communications, the idea behind International Marconi Day is to keep the spirit of invention alive. The event also provides an exciting throwback to the days when a connected planet Earth was but a bold dream and only a few exceptional people, such as Marconi, saw the value in it.

<https://www.daysoftheyear.com/days/international-marconi-day/>

Marconi proved the feasibility of radio communication. He sent and received his first radio signal in Italy in 1895. By 1899 he flashed the first wireless signal across the English Channel and two years later received the letter "S", telegraphed from England to Newfoundland. This was the first successful transatlantic radiotelegraph message in 1902.

[https://public.wsu.edu/~bryan.mclaughlin/Radio/Who\\_Invented\\_Radio.html](https://public.wsu.edu/~bryan.mclaughlin/Radio/Who_Invented_Radio.html)

The debate about who invented radio remains interesting - this is from Wiki:

"The invention of radio communication, although generally attributed to Guglielmo Marconi in the 1890s, spanned many decades, from theoretical underpinnings, through proof of the phenomenon's existence, development of technical means, to its final use in signalling.

The idea that the wires needed for electrical telegraphy could be eliminated, creating a wireless telegraph, had been around for a while before radio based communication. Inventors attempted to build systems based on electric conduction, electromagnetic induction, or on their own theoretical ideas. Several inventors/experimenters came across radio waves before they were proven to exist but it was written off as electromagnetic induction at the time.

The discovery of electromagnetic waves, including radio waves, by Heinrich Rudolf Hertz in the 1880s came about after over a half century theoretical development on the connection between electricity and magnetism starting in the early 1800s and culminated in a theory of electromagnetism developed by James Clerk Maxwell by 1873, which Hertz finally proved.

The development of radio waves into a communication medium did not follow immediately afterwards. After their discovery Hertz considered them of little practical value and other experimenters who explored the physical properties of the new phenomenon, such as Oliver Lodge and Jagadish Chandra Bose, while transmitting radio waves some distance, did not seem to see any value in developing a communication system based on them. In their experiments they did develop electronic components and methods to improve the transmission and detection of electromagnetic waves.

In the mid 1890s, building on techniques physicists were using to study electromagnetic waves, Guglielmo Marconi developed the first apparatus for long distance radio communication. On 23 December 1900, the Canadian inventor Reginald A. Fessenden became the first person to send audio (wireless telephony) by means of electromagnetic waves, successfully transmitting over a distance of about 1.6 kilometers, and six years later on Christmas Eve 1906 he became the first person to make a public radio broadcast.

By 1910 these various wireless systems had come to be referred to by the common name "radio".

[https://en.wikipedia.org/wiki/Invention\\_of\\_radio](https://en.wikipedia.org/wiki/Invention_of_radio)

I should add that Nikola Tesla gave a public demonstration of the wireless transmission of energy on March 1, 1893. He had created an induction coil to transmit and receive radio signals. Years later while he was preparing to transmit signals at a distance, so was another inventor: Guglielmo Marconi. Tesla died in 1943 and six months after his death the US Supreme Court ruled that all of Marconi's radio patents were invalid and awarded the patents for radio to Tesla.

(via Mike Terry, April 1, WOR iog via DXLD) so much for Popov (gh)

## NEW Domestic Broadcasting Survey DBS-21

Dear DX-friends, NEW Domestic Broadcasting Survey available !

A completely updated DBS-21 with 15 pages is now available on [www.dswci.org](http://www.dswci.org) , click Domestic Broadcasting Survey - Latest Issue. Any DX-er may download it FREE OF CHARGE and use it when DX-ing.

(Anker Petersen)

### Trends in tropical bands broadcasting 2019

by Anker Petersen

Region	1973	1985	1997	2009	2019
Central Africa	102	76	40	18	3
Southern Africa	57	39	33	20	7
Middle East	9	4	1	0	0
Indian Subcontinent	62	45	45	29	14
South East Asia	40	29	21	4	1
Indonesia	171	105	65	13	2
China, Taiwan, Mongolia	119	110	75	32	19
CIS (former USSR)	61	59	47	7	4
Far East	38	28	28	9	6
Papua New Guinea	17	20	20	15	2
Australia and other Pacific	10	4	13	8	4
Central America, Mexico	21	23	24	5	1
Caribbean	29	3	3	2	3
Northwestern South America	98	41	19	3	1
Ecuador	47	33	22	5	0
Peru	78	69	78	28	6
Bolivia	35	42	25	14	3
Brazil	107	87	67	35	16
Southern South America	5	2	1	0	0
<b>Total</b>	<b>1106</b>	<b>819</b>	<b>627</b>	<b>247</b>	<b>92</b>

Since the Danish Short Wave Club International published the first annual Tropical Bands Survey in 1973, I have registered which stations are active, based upon loggings from our members and other DX-ers around the world. Here is an updated status where Clandestine and Pirate stations not are included.

#### Active domestic transmitters on 2200 – 5800 kHz

During the past year the previous trend, that Tropical stations slowly disappear, continued throughout the world with a loss of about 10 stations, including Meyerton in South Africa. The reason is, that other media get higher priority, than keeping elderly Shortwave transmitters alive.

Here are some of the stations on the Tropical Bands, which have closed down during year 2018 or 2019:

kHz	kW	Station	Country	Last log
3230	100	So. African R League, Meyerton	South Africa	AUG18
3250	100	PBS, Pyongyang	North Korea	JAN18
3255	100	BBC, via Meyerton	South Africa	MAR19
3320	100	R Sonder Grense, Meyerton	South Africa	MAR19
3345	100	Channel Africa, Meyerton	South Africa	MAR19
3925	50	R Nikkei, Nagara, Chiba, Tokyo	Japan	SEP18
4765	10	R Integração, Cruzeiro do Sul, AC	Brazil	FEB18
4790	50	BBC, via Yangiyul, Dushanbe	Tajikistan	MAR18
4810	100	Armenian Public R, Noratus, Gavar	Armenia	JAN19
4810	100	Dengê Welat, via Noratus, Gavar	Armenia	MAR18
4845	1	R Meteorologia Paulista, Ibitinga, SP	Brazil	MAR18
4895	100	So. African R League, Meyerton	South Africa	FEB19
4990	10	Hunan PBS, Changsha, Hunan	China	JAN18



## A-DX New approach to Grey Line reception

In unserer A-DX Liste hatten wir eine spannende Unterhaltung über den Winkel der Grey Line zum Empfangsort und einer damit verbundenen guten Empfangsmöglichkeit auf die mich Hobbyfreund Franz brachte: "Die "Show Day/Night at log date/time" in der Kartendarstellung der MW-List ist eine tolle Funktion, speziell wenn es um die Grey Line geht. Da die Karte aber eine zylindrische Projektion (Miller) der dreidimensionalen Erdkugel auf eine zweidimensionale Karte ist, stimmen die Richtungen nicht. Schön wäre es, wenn der Log auf einer Azimutkarte mit dem QTH des Empfängers im Zentrum dargestellt wäre. Nur dann ließe sich der Effekt nachweisen." Das wäre jetzt mit dem DX-Atlas bestätigt! Als Beispiel mein heutiger Empfang aus Lima, Peru. Passt!



*Wenn nun die Wahrscheinlichkeit schöner DX-Empfänge besser kalkulierbar wird, könnte dies ein Anreiz sein.*

Das ist genau der Punkt. MW Ausbreitung ist ja sehr wenig erforscht, wenn dann sind hier die „Low Band“ Funkamateure dran, aber die Grundmeinung ist ja die Mittelwelle sei eigentlich nicht genauer vorherzusagen.

Ich höre nun seit Jahren tagtäglich das Band ab, was den Vorteil hat sich nicht auf Vorhersagen zu stützen sondern einfach mal „zur Sicherheit“ JEDEN Tag das ganze Band zum Sonnenaufgang aufzunehmen - der Segen der SDR Technik. Natürlich erkennt man gewisse bessere Tage in Verbindung mit den A und K Werten schon grob vorab, auch entwickelt man ein Gespür für kommende Möglichkeiten, Tage nach einem schnellen Anstieg und Abstiegs des A Wertes sind zu beachten, aber insgesamt alles nichts punktgenaues.

Die Idee nun diese genaue Richtung des Sonnenwinds zum Empfangsort mit zu beachten bringt uns hier wirklich weiter. Ich habe hier einige besondere Tage der letzten Jahre verglichen, Trefferquote 100%. Max „MvA“ hat einige Empfänge verglichen, das gleiche Resultat!

Was mir aber aufgefallen ist: Es sind NUR die Tage in denen seltene Stationen „richtig“ stark ankommen, meist ist das wie aktuell bei Radio Naval aus Guayaquil nach 3 Tagen wieder vorbei. Die drei Tage passen aber perfekt zum Winkel der Grey Line am Empfangsort!

Wenn Radio Naval nun zwei Wochen später „zufällig“ wieder mal schwach zu hören ist - dann spielt der Effekt hier keine Rolle, sondern es ist ein normaler schöner DX-Empfang.

Spannend ist jetzt hier das Zusammenspiel zu erkennen. Die Logs der Top-Dxer der letzten Jahre liegen ja vor, die Sonnenwerte ebenso, die Aufgabe ist nun aus den vorhandenen Datenmaterial eine mögliche Interaktion zu finden. Hier liegt der Schlüssel zu einer möglichen echten Vorhersagbarkeit.

*Wenn nun noch in ein bereits vorhandenes Tool wie z.B. dem CSV Userlist Browser eine Berechnungsfunktion eingebaut wäre, die in der Frequenzliste die aktuell besonders "heißen" Einträge hervorhebt, dann wäre dies perfekt.*

Der - wie ich immer sage - geniale CSV Userlist Browser bietet ja die Möglichkeit das „Bearing“ anzuzeigen. Diese Peilung vom eigenen Standort aus - mit Verwendung der - ebenfalls genialen - AM List bezogen auf den eigenen Standort bietet schon heute die Möglichkeit hier entsprechend zu filtern. Für die MW-DXer kommt ja wenn wir voraussehen Bolivien als nächstes in unseren Blickpunkt. Was kein leichtes Unterfangen ist, aber möglich, zwei Stationen habe ich schon in Salzburg gehört. Sich hier den CSV Userlist Browser so zu konfigurieren ist ja keine große Sache und bringt einen weiteren Blickwinkel: Stationen die mit Blick auf die zylindrische Projektion der AM List nicht sofort in den Fokus kommen sind auf einmal mit der Azimutkarte und dem eingezeichneten Winkel mitten im Blickfeld.

Welcher MW-DXer hat ja nicht schon mehrfach „über die Bänder“ gedreht und bei einer starken Station rasch weitergedreht weil es ja sowieso der Sender ist der dort immer ist sei. Das man aber etwas ganz anderes gehört und überhört hat bemerkt man ja nicht.

Hier könnte man nun wesentlich sorgfältiger und gezielter auf die Jagd gehen. Die tägliche schöne „Arbeit“ mit dem Abhören bleibt, aber der Blickwinkel wäre ein anderer. Alleine dafür lohnt diese spannende Unterhaltung!

(73 Christoph Ratzer via A-DX)

-----  
Hallo Willi, hallo Christoph,

noch eine Ergänzung: Was dem einen der sog. "Sunrise Enhancement"-Effekt ist, ist für den anderen die sog. "Mittags-anomalie". So beschreibt Hardy, DL1VDL, dass er im Winter hin und wieder genau zu Mittag CQ auf 40 Meter ruft. Er kann dann für etwa 30 min. Nordamerikaner arbeiten, aber nicht jeden Tag. Ein Blick auf die Beamkarte zeigt: Er sendet da genau im 90-Grad-Winkel in den Terminator. Aus US-amerikanischer Sicht eine "Sunrise Enhancement"-Verbindung.

(73 Tom DF5JL via A-DX)

### Soviet receivers.

-----  
Radio USSR. Vintage handsome bartender TPS-58

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-vintajnyi-krasavec-sharmanscika-tps58-5ca70b696657c200b3acf196>

-  
Radio USSR. R-670m Favorite "Mermaid" with a golden soul.

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-r670m-liubimaia-rusalka-s-zolotoi-dushoi-5c9622f18adbcb28d6302dc6>

-  
Radio USSR. The famous "Ishim", the younger brother of "Kazakhstan".

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-znamenitiy-ishim-mladshii-brat-kazahstana-5ca467295ec13d00b4401b1a>

-  
Radio USSR. "Flying" US with quite the earthy name "Dvina".

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-letaiuscii-us-s-vpolne-zemnym-nazvaniem-dvina-5c86aa371ad21c00b330a891>

-  
Radio USSR. The first receiver for security officers "KROT" ... "RED EARS".

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-pervyi-priemnik-dlia-chekistov-krot--krasnye-ushi-5c85351588aa7c00b39f1341>

-  
Radio USSR. P-678 with a sweet and sour name "Cowberry"

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-r678-s-kislokladkim-imenem-brusnika-5c8fdb6ed4eea800b2749e48>

-  
Radio USSR. R-160P "Flash" The famous hunky radio amateurs.

<https://zen.yandex.ru/media/id/5c43064986e43c00ad249399/radiopriemniki-sssr-r160p-vspyshka-znamenitiy-rabotiaga-radioliubitelei-5c948f857d64ba1226b6ed71>

(Based on materials from Mikhail Zykov, Omsk. <https://vk.com/radioreceiver>)

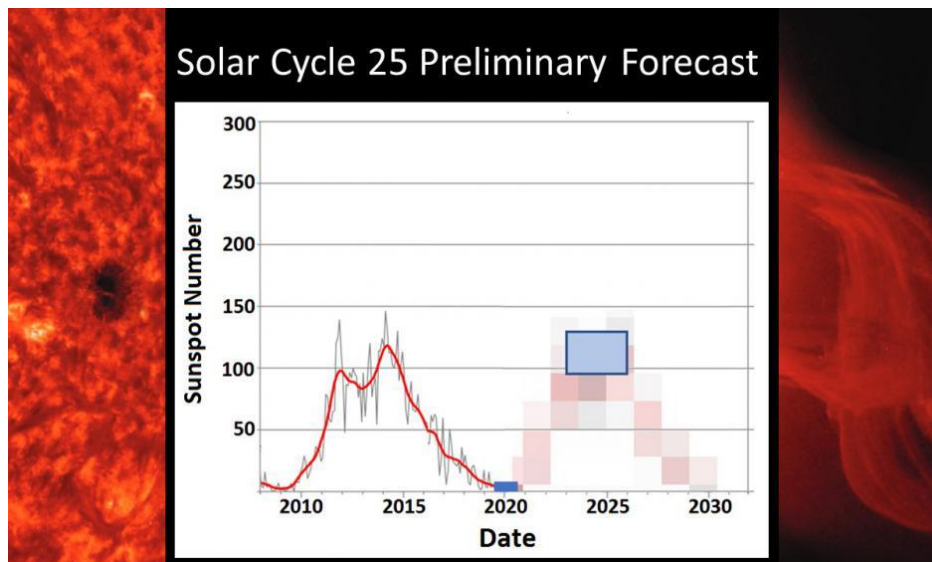
(RUS-DX # 1024, Anatoly Klepov)

### Solar Cycle 25 Preliminary Forecast. Published: Friday, April 05, 2019 19:45 UTC

The NOAA/NASA co-chaired international panel to forecast Solar Cycle 25 released a preliminary forecast for Solar Cycle 25 on April 5, 2019. The consensus: Cycle 25 will be similar in size to cycle 24. It is expected that sunspot maximum will occur no earlier than the year 2023 and no later than 2026 with a minimum peak sunspot number of 95 and a maximum of 130. In addition, the panel expects the end of Cycle 24 and start of Cycle 25 to occur no earlier than July, 2019, and no later than September, 2020. The panel hopes to release a final, detailed forecast for Cycle 25 by the end of 2019. Please read the official NOAA press release describing the international panel's forecast at

<https://www.weather.gov/news/190504-sun-activity-in-solar-cycle>

See <https://www.swpc.noaa.gov/news/solar-cycle-25-preliminary-forecast>



**[WOR] Solar minimum will be long and deep, experts predict.** Southgate April 12, 2019

An international panel of researchers led by NASA and NOAA has released a new prediction for the solar cycle. According to their analysis, the current solar minimum is going to deepen, potentially reaching a century-class low in the next year or so. This will be followed by a new Solar Max in the years 2023-2026.

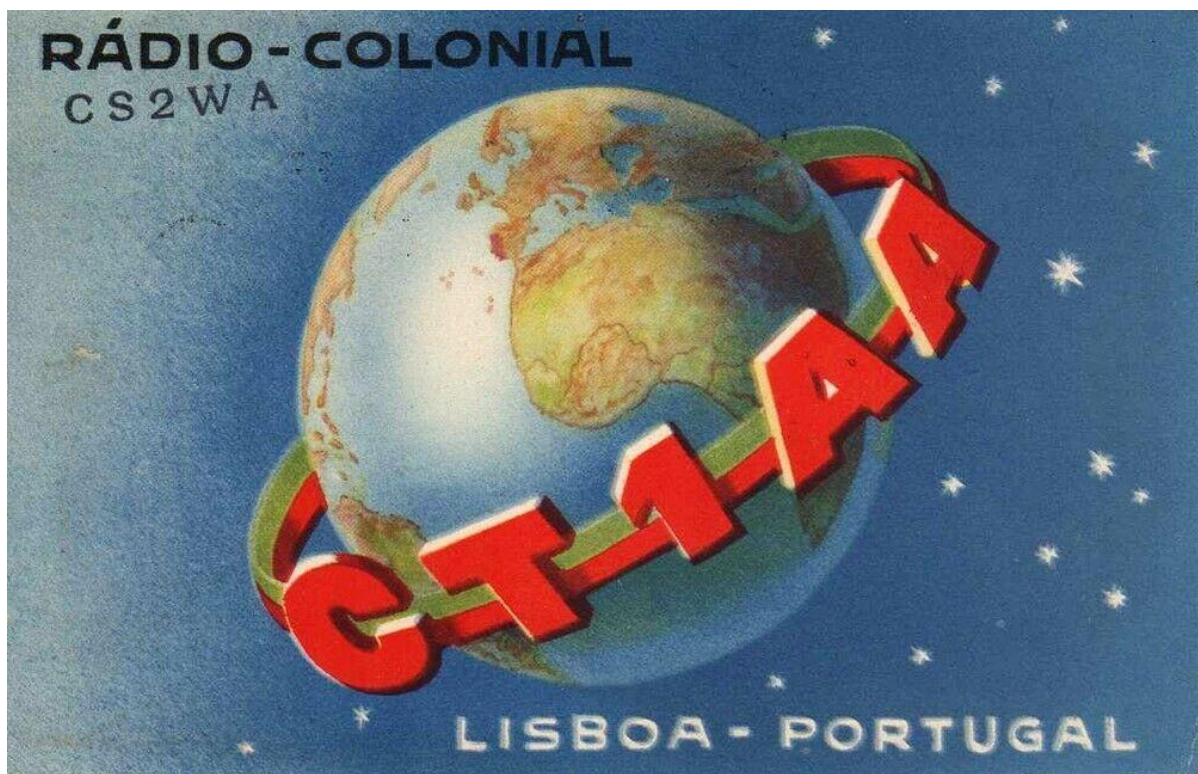
Visit today's edition of [Spaceweather.com](http://www.spaceweather.com) to learn how this affects space weather and life on Earth.

<http://www.southgatearc.org/news/2019/april/solar-minimum-will-be-long-and-deep-experts-predict.htm>

(Mike Terry via WOR)

**More nostalgia, John Ekwall has found those nice QSL's on the web.**

CS2WA, R Colonial from Lisboa transmitting on 9650 IKz, QSL from 1938.



John, thanks a lot for scanning those nice QSL's. /TN

## DX nostalgia

Tore Larssons QSL from Colombian station La Voz del Tolima, received in 1961.



This FEBC QSL comes from the collection of Lars-Olof Hansson and was received in 1962.



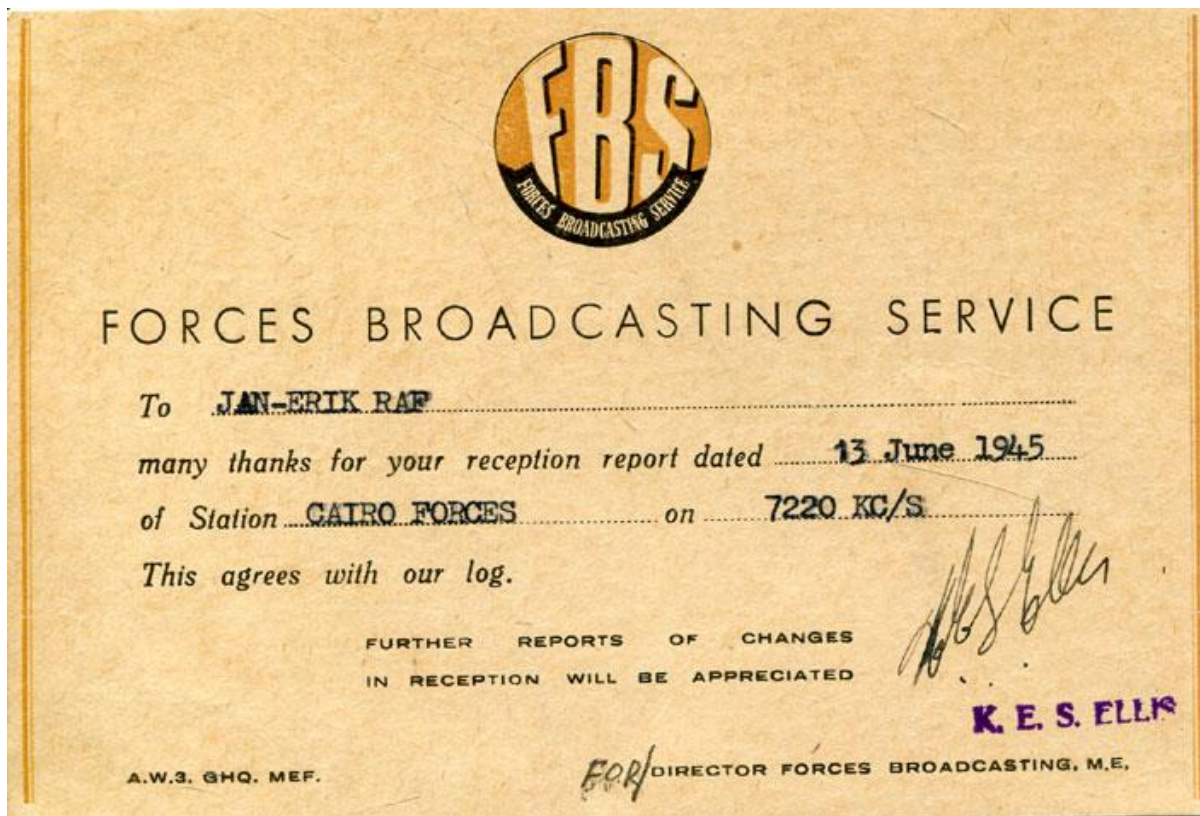
Jan-Erik Räf received this QSL card from Ríkisútvarpið in Reykjavík, Iceland in 1945 for reception on May 7. The following day Nazi Germany surrendered unconditionally.



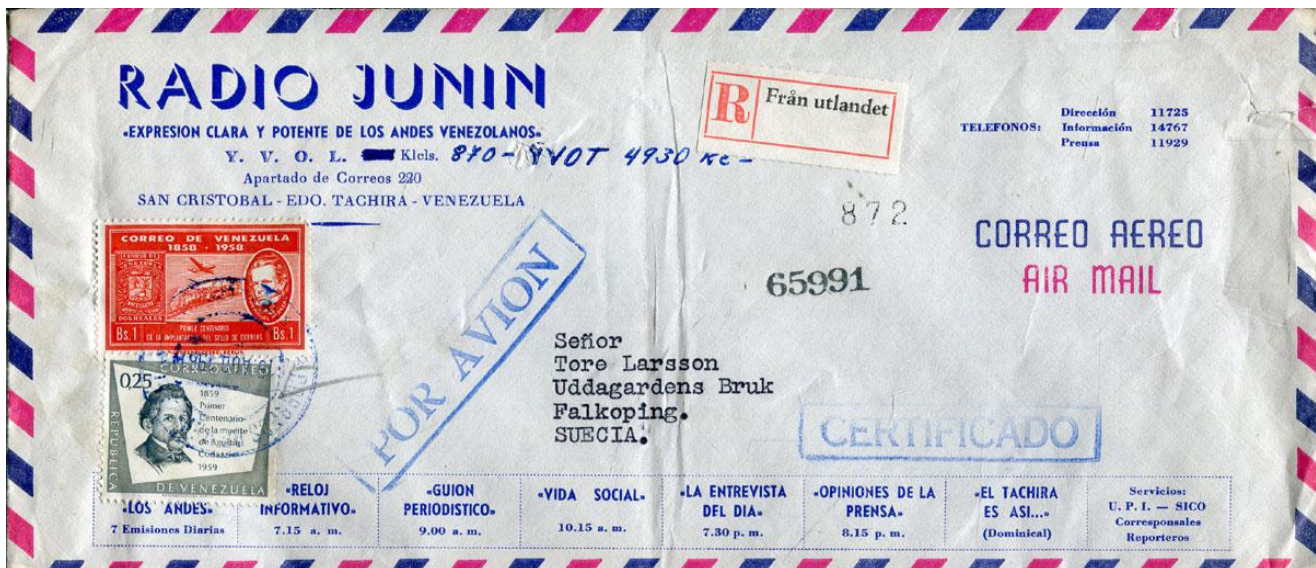
Lars-Olof Hansson received this nice QSL card from Radio Guarani in 1962 confirming his reception on 6175 kHz. The station used to be a fairly easy catch




Jan-Erik Räf, JER, received this QSL from Forces Broadcasting Service, Cairo in 1945. From the log: the songs Amapola, Deep Purple, In The Mood and My Melancholy Baby.



Radio Junin in San Cristobal, Venezuela verified TL:s report by a registered letter. V/s Rodrigo A. Carvajal, Chief Engineer, writes that the 350 W transmitter was manufactured in Venezuela and used two tubes of type PL-177A in both the power amplifier and modulator stages. The antenna was of Delta type, 30 metres above ground and the transmitter location 1200 metres above sea level.



Finally TL:s QSL letter from Radio Reloj in Costa Rica. Received in 1961. It used to be quite an easy catch on 6006 kHz in the 49 mb.



# RADIO *Reloj*

T-I-H-B-690 KC.  
ONDA LARGA  
T-I-H-B-G-6006 KC.  
ONDA CORTA 49 MTS.

SAN JOSE, COSTA RICA C. A.  
ROGER BARAHONA G. Y HNOS. LTDA.

APARTADO POSTAL 341  
CABLE Y RADIO  
RADIO RELOJ

♦ TELEFONO:  
♦ ESTUDIOS 5807

Junio 19, de 1961.

DEPORTES  
-  
NOTICIAS  
-  
MUSICA  
-  
GRABACIONES  
-  
CUÑAS

Señor  
Tore Larsson  
Uddagardens Bruk  
Flakoping,  
SUECIA.

Estimado amigo:

Damos contestación a un nuevo reporte enviado por Ud. a esta emisora, sobre nuestra programación del 18 de mayo pasado, entre las 8,35 y las 9,00 hora de Costa Rica.

Revisados los detalles de su informe hemos tenido gran satisfacción, al comprobar que éstos coinciden ampliamente con nuestro libro de control. Así pues agradecemos mucho su reporte y le enviamos un banderín de esta emisora como prueba de nuestra amistad y en recuerdo de la emisión escuchada.

En espera de que tenga futuras oportunidades para captar nuestras programaciones, nos despedimos de Ud. atentamente.

Por EMISORAS DE RADIO RELOJ DE COSTA RICA.

*Odilie B. de Araya*  
Odilie B. de Araya.  
Secretaria de la Gerencia.