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Longwave ... now and then



**A frequency order guide
to longwave radio stations
and a look back at the past**

May 2025

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Please also see other guides at dxguides.info

Thanks to Rihards Millers (Latvia) and Alexander Miatlikov (Ukraine) for their past observations.

Explanations used in this guide may have been taken from radio station websites and/or Wikipedia.

Whilst there may be errors and omissions, the strong point of the guides is the ability to correct and update quickly. Please do not hesitate to let me know if you see something that doesn't look right. Thanks!

This edition was last updated on 25 May 2025.

Guide to current stations on longwave

153 kHz

[ALGERIA](#)

Radio Algérienne, Chaîne 1

Transmitter site: Kénadsa, near Béchar - 2000 kW.

The Kénadsa longwave transmitter is situated at Kénadsa near Béchar. It is among the most powerful broadcasting transmitters in the world, uses an antenna array of three 357-meter tall guyed masts, which are arranged in a line. In spite of its high power, and unlike the Tipaza Longwave Transmitter, Kénadsa broadcasts are difficult to receive in Europe. This occurs because its frequency is also used by Romania and as a result of signal attenuation caused by poor ground conductivity of the Sahara sand. It is currently the tallest structure in Algeria (Wikipedia). The transmitter was off for more than 5 years, but has been heard again irregularly since December 2021.

Time/UTC **Language**
irregular Arabic

[ROMANIA](#)

Radio România - Antena Satelor

Transmitter site: Braşov/Bod Colonie - 200 kW.

Antena Satelor (Radio Villages' Antenna) is a radio station operated by the Romanian Radio Broadcasting Company (Romanian: Societatea Română de Radiodifuziune). It broadcasts seven days a week, 24 hours a day. It was heard for the first time regionally on 25 December 1991, with 5 hours of broadcast per day. On 1 March 2006 the service was extended to coverage the whole country. Radio Antena Satelor provides programming for the public in rural areas, debating real problems of the typical Romanian village.

Time/UTC **Days** **Language**
24 hours Daily Romanian

162 kHz

[FRANCE](#)

TDF

Transmitter site: Allouis - 1100 kW.

The Allouis longwave transmitter has been France's central longwave broadcast transmitter since 1939. It is located near the village of Allouis. Following the decision to end the transmission of France Inter on 162 kHz from 1 January 2017, the transmission of the TDF time signal has continued since then. This time signal is critical for over 300,000 devices, which are deployed within French enterprises and state entities, like the French railways SNCF, the electricity distributor ENEDIS, airports, hospitals, municipalities, etc. The transmitter is owned by TéléDiffusion de France and the provisioning of the ALS162 time signal is a joint responsibility of ANFR (state body for radio frequencies), the trade body France Horlogerie and the LNE-SYRTE and LNE-LTFB time laboratories.

Time/UTC **Days** **Language** **Note**
24 hours Daily IPHA Data (0-20 Hz) off for maintenance on Tuesdays 0700-1100

164 kHz

[MONGOLIA](#)

Mongolian Radio 1

Transmitter site: Ulaanbaatar - listed in MWList/WRTH 2022 as 250 kW (nominal 500 kW).

The Mongolian National Broadcaster (MNB) is the official state broadcaster in Mongolia.

Time/UTC Days Language Parallel freqs on LW

2200-1500 Daily Mongolian 209 227 (Please see observations below on page 12)

171 kHz

[MOROCCO](#)

Médi 1

Transmitter site: Nador - 1600 kW.

Medi 1 Radio (also known as Radio Méditerranée Internationale) is a private, commercial Moroccan radio network. Medi 1 has an audience of around 23 million people and broadcasts throughout the Maghreb in both Arabic and French.

Time/UTC Days Language

24 hours Daily Arabic/French

198 kHz

[UNITED KINGDOM](#)

BBC Radio 4

Transmitter sites: Droitwich - 500 kW; Burghead - 50 kW; Westerglen - 50 kW.

BBC Radio 4 is a British national radio station owned and operated by the BBC. It broadcasts a wide variety of spoken-word programmes including news, drama, comedy, science and history from the BBC's headquarters at Broadcasting House, London. Radio 4 broadcasts throughout the UK, the Isle of Man and the Channel Islands and is notable for news bulletins and programmes such as Today and The World at One, heralded on air by the Greenwich Time Signal pips or the chimes of Big Ben. Radio 4 also broadcasts the Shipping Forecast. The longwave service of BBC Radio 4 is also home to Test Match Special, with coverage of many of England's cricket matches. After BBC Radio 4's daily schedule has ended, the BBC World Service is aired overnight.

Time/UTC Days Service Language

0420-0000 Daily BBC Radio 4 English

0000-0420 Daily BBC World Service English

207 kHz

[ITALY](#)

AM-Italia

Transmitter site: Villa Estense, near Padova - 1 kW.

AM-Italia is a private radio station in Italy which occasionally broadcasts on 207 kHz, most recently on 13 February 2023 (see below). The transmitter site is the same as 918/1323 kHz, in Villa Estense.

On the occasion of World Radio Day 2023 on 13 February 2023, as proclaimed by UNESCO, AM-Italia broadcast on its three licensed frequencies, 207, 918 and 1323 kHz, with Guglielmo Marconi's announcement for the first Trans-Atlantic radio transmission on 12 December 1901, followed by an interview with Elettra Marconi talking about her father. A number of Swing songs from the 1930s interspersed the contents in rotation. (Antonello Napolitano to MWC iog)

209 kHz

[MONGOLIA](#)

Mongolian Radio 1

Transmitter sites: three locations at Choibalsan; Dalanzadgad; Ulgii - all 40 kW in MWList/WRTH 2022 (nominal 75 kW)

The Mongolian National Broadcaster (MNB) is the official state broadcaster in Mongolia.

Time/UTC Days Language Parallel freqs on LW

2200-1500 Daily Mongolian 164 227 (Please see observations below on page 13)

225 kHz

POLAND

Polish Radio - Jedynka

Transmitter site: Solec Kujawski - 1200 kW (700 kW at night)

Polskie Radio Program 1, known also as PR1 or Radiowa Jedynka, is a radio channel broadcast by the Polish public broadcaster, Polskie Radio. It is dedicated to information and easy listening music.

Time/UTC Days Language

24 hours Daily Polish

Paul Gager on the BDXC-UK iog commented on Tuesday 25 June 2024 that he heard Polish Radio on LW 225 kHz with headlines in English at about 0706, 0806 and 0906 UTC. News in German was at 0708, 0808 and 0908 UTC This is a Summer-only programme.

The "Journal of Vatican Radio" in Polish is broadcast Monday-Friday at 1743-1800

News bulletins in Belarusian were discontinued on 29 August 2022 and Ukrainian news bulletins have also since ceased on longwave. A check of the programme archive for Ukrainian shows the last air date was 28 October 2022. PR now promote a separate Poland-wide DAB service in Ukrainian which has been operational for a while. (thanks to Rihards Millers for regular updates)

227 kHz

MONGOLIA

Mongolian Radio 1

Transmitter sites: Altaii - listed as 40 kW in MWList/WRTH 2022 (nominal 75 kW).

The Mongolian National Broadcaster (MNB) is the official state broadcaster in Mongolia.

Time/UTC Days Language Parallel freqs on LW

2200-1500 Daily Mongolian 164 209

(Please see observations below on page 13)

252 kHz

ALGERIA

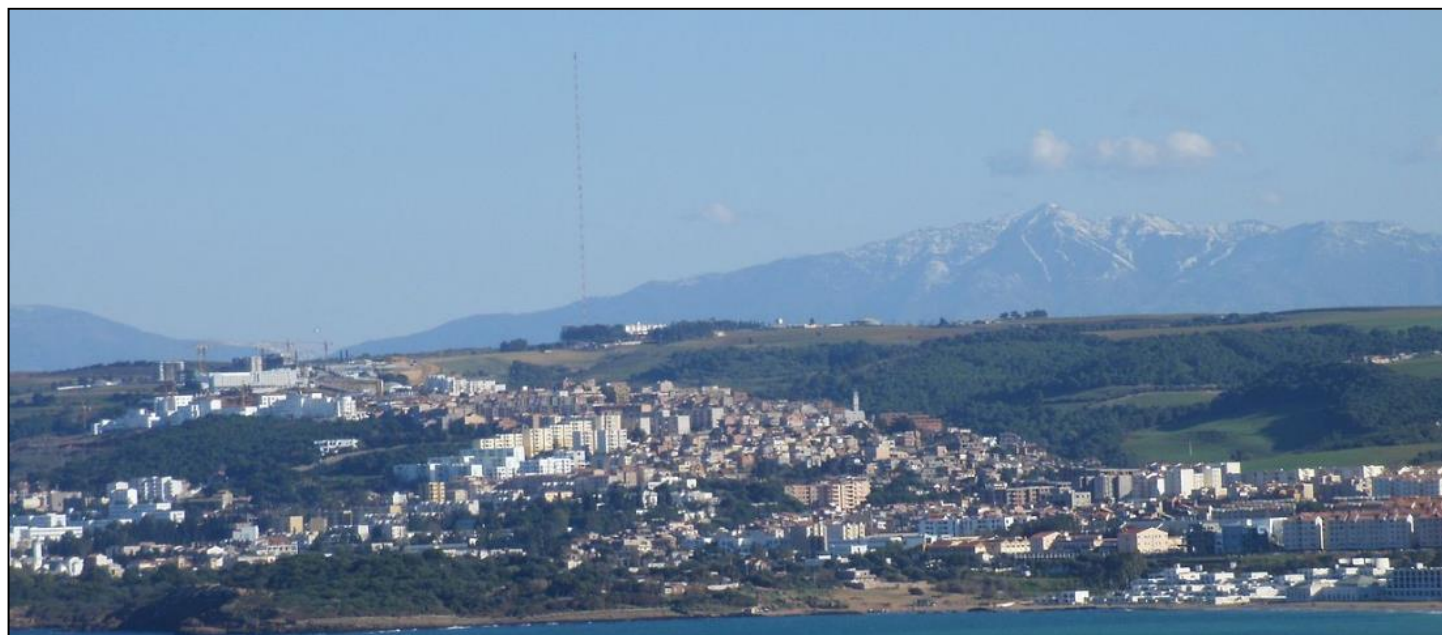
Radio Algérienne, Chaîne 3

Transmitter site: Tipaza - 1500/750 kW (half-power at 1900-0600).

The Tipaza Longwave Transmitter broadcasts the French-speaking station Chaîne 3 programme on 252 kHz. The Tipaza antenna is a 355-meter tall guyed mast, which is the second-tallest structure of Algeria.

Time/UTC Days Language

24 hours Daily French



View of Tipaza with the longwave transmitter in the background (Wikipedia - [Yelles](#))

Looping the Loop

by Dave Kernick

This is a feature that British DX Club member Dave Kernick wrote in July 1990 and it originally appeared in the August 1990 edition of the club's monthly magazine "Communication".

Most people would consider that constructing a purpose-built antenna to cover the longwave band would be more trouble than it's worth when compared to the attractions and potential rewards of a mediumwave loop (though "attractive" is not how my nearest and dearest describes it!). However, having recently enlarged my MW loop I was curious to see how it would perform when adapted for longwave - this was done by connecting an additional 192 feet of wire to the 84 feet length used for the mediumwave loop, and wrapping it round the frame in a similar manner. Following are details of what I heard:

kHz	UTC	Station, location, details etc	SIO	Date
153	0202	RTA, Bechar, Algeria, Arabic song, // Arabic Service on 891	233	28/06/90
153	2100	DLF, Donebach, West Germany, German ID & news, // 207	433	27/06/90
153	2059	RTR, Brasov, Romania, IS (same as the external service), ID "Radio Bucharest, Romana" - no more "Libera"! Followed by news in Romanian	333	27/06/90
162	2204	France-Inter, Allouis, FF sport report from Wimbledon, // 675, 1350	444	27/06/90
171	0104	Moscow 1st (Euro), multi-tx, USSR, news in Russian, // 261	444	28/06/90
171	2025	Medi-1, Nador, Morocco, flute music and wailing (this is easier to hear in the 0000-0100 "window" when the USSR tx is on carrier only)	222	27/06/90
177	2207	Deutschlandsender DS-Kultur, Oranienburg, East Germany, classical mx and occasional anns in German (new station name and cultural format)	444	27/06/90
180	0110	TRT, Polati, Turkey, continuous Turkish mx, anns in Turkish at 0130 (audible only after Europe-1 went off at 0100+, disappeared by 0200)	343	28/06/90
183	2150	Europe-1, Felsberg, West Germany, FF discussion, "Sunset Arise" song	444	27/06/90
189	2209	Sveriges R, Motala, Sweden, Spanish guitar mx, s/off anns in Swedish	243	27/06/90
189	2127	RAI-2, Caltanissetta, Italy, shipping forecast, ID then off at 2130	353	27/06/90
198	0030	BBC WS, Droitwich, UK, "Modern Masterpieces" featured Polish composer	555	06/07/90
198	2342	Moscow 2nd (Mayak), multi-tx, USSR, Russian folk music, // 171, 4930 (extremely sharp null required to squeeze past BBC World Service!)	333	27/06/90
207	2153	DLF, Aholming, West Germany, German ID then px preview, // 153, 1269	333	27/06/90
207	2145	Kiev 2nd, Ukrainian SSR, distinctive 13-note IS then Ukrainian news	222	27/06/90
207	0020	RTM, Azilal, Morocco, AA discussion about the World Cup, // 15335	333	06/07/90
216	0015	NRK, Oslo, Norway, jazz music and Norwegian announcements, // 1314	444	28/06/90
216	2115	R Monte Carlo, Romoules, France, FF music dedications with female DJ	454	27/06/90
225	2250	Warsaw 1st, Poland, VoA news items read in English then in Polish (this is // VoA Polish Service on 1197, 3980, 6150, 11915 & 15235)	454	27/06/90
234	0133	Radio Luxembourg, Junglinster, Stones song "Angie" sung in French	555	28/06/90
234	0105	Moscow 1st (Euro), multi-tx, USSR, news in Russian, // 171	222	06/07/90
243	0450	Danmarks R, Kalundborg, shipping forecast prior to sign-on	555	28/06/90
252	2333	YLE, Lahti, Finland, FF weather in Nordic capitals, // 963	222	27/06/90
252	2110	RTA, Tipaza, Algeria, "Sledgehammer" song by Peter Gabriel, // 981	444	27/06/90
252	0100	Yerevan 1st, Armenian SSR, local IS (same as the external service) & republican anthem. S/on ann in Armenian then into folk music. // 4810	122	08/07/90
252	1458	Atlantic 252, Clarkestown, Ireland, "More music, more giveaways"	555	05/07/90
261	2200	Horizont, Sofia, Bulgaria, time signal, brief signature tune then nx	343	27/06/90
261	0059	Moscow 1st (Euro), Taldom, USSR, IS, Russian ID, five Kremlin chimes then Soviet anthem. Followed by "pozledniya izvestia" latest news)	343	06/07/90
261	0455	Radio Volga, Burg, East Germany, s/on with choral version of USSR anthem and local IS followed by "Govorit Radiostansiya Volga" ID	444	28/06/90
270	0200	Radio Czechoslovakia, Topolna, IS, Czech news on events in Albania	444	08/07/90
279	0159	Minsk 1st, Belorussian SSR, IS & Soviet anthem followed by M1 relay	333	28/06/90
279	2359	Moscow 1st (Orbita-4), Ashkhabad, USSR, IS & anthem, RR nx, // 9490	242	28/06/90

I was surprised to hear not a whisper from the 500 kW Tbilisi transmitter on the clear frequency of 189 kHz at 0200 s/on, whereas I could hear more distant Yerevan signing-on at 0100 with 150 kW on the cluttered 252 kHz channel - that's the difference just one hour can make!

Incidentally, although there are often several Soviet transmitters using the same frequency for relaying Moscow 1st Programme, it can sometimes be deduced which one you are listening to by checking possible parallel frequencies to see which edition of the programme is being carried. For instance, 171 kHz is a good guide frequency for the European edition of Moscow 1st, whilst the Orbita-4 edition is on 9490 kHz. Avoid this procedure during news bulletins as the various editions may link for network news!

As background to some of the foregoing tips I add here some further observations; you can see that Radio 4 and Atlantic 252 are not the only places on the longwave dial where you can hear English spoken! Underlined frequencies are the parallel channels most likely to be heard, here in the south-east anyway - these are not necessarily the most powerful transmitters! - and the times given are in UTC and based on summer time (add one hour for winter).

- 153 Radiodiffusion-Television Algerienne.** Arabic Service, 24 hours. Easiest to hear in the early hours of the morning. // 531, 549, 891 etc.
Deutschlandfunk. 24 hours. // 207, 549, 756. Partially // 1269, 1539.
Radioteleviziunea Romana Libera. 1st Programme, 24 hours. // 603, 630, 720, 1179, 1314, 1332, 1404, 1510, 1593. If in doubt, listen out on the hour for the interval signal, which is the same as the one used for Radio Romania International.
- 162 France-Inter.** 24 hours. // 675, 1071, 1161, 1350, 1584
- 171 Moscow 1st (Euro).** Russian programming 0100-2100. // 261 & many SW frequencies.
Moscow 2nd. Russian programming 2100-2400. // 4930 & many other SW frequencies.
Medi-1/Radio Mediterranee Internationale. French & Arabic programming 0500-0100, mostly pop and Arabian music. // 612 & 9575 (latter 0700-2100 only).
- 177 Deutschlandsender DS-Kultur.** Cultural programming, 24 hours. Ex-Deutschlandsender & ex-Stimme der DDR, this is the only known AM frequency for this new service.
- 180 Turkish Radio-Television Corporation.** 2nd Programme, 0400-0200 (including the Night Programme, 2205-0200 on this AM frequency only). Often audible after Europe-1 s/off. // 162 & 702 unlikely to be heard due to co-channel QRM.
- 183 Europe-1.** French programming 0400-0105 (weekdays), 24 hours (Sat/Sun). No // on AM.
- 189 Sveriges Radio.** 1st Programme 0350-2215v. Partially // 1179 & 6065.
Radiotelevisione Italiana. 2nd Programme 0400-2130. // 846, 999 1116, 7175 etc.
- 207 Radioditfusion Television Marocaine.** Arabic Service, 24-hours. // 540, 15335 etc.
Kiev 1st Programme. Ukrainian & Russian programming 0300-2300. // 675, 936 etc.
Kiev 2nd Programme. Ukrainian programing 2300-0300. Interval signal & news at 15 minutes to and 15 minutes past most hours. // 1242, 1377, 1404, 4940, 6020 etc.
- 216 Norsk Rikskringkasting.** 1st Programme, 24 hours. // 153, 630, 675, 702, 1314.
- 225 Warsaw 1st Programme.** 24 hours. Sometimes has English news headlines & weather at 0705 & 0805 (July to September only). No // frequencies.
- 243 Danmarks Radio.** 1st Programme 0450-2205 weekdays, 0500-2230 Saturday, 0700-2205 on Sunday. News in English at 0610 Monday-Friday.
- 252 Yerevan 1st Programme.** Armenian & Russian 0100-2100. // 64, 1377, 4810 (0100-1200).
Radio Finland. All YLE domestic services recently moved to VHF only, leaving this frequency for the external service in various languages. This includes English at 0630-0655, 1830-1900, 2100-2125, 2300-2325. // 6120 & 11755.
Radiodiffusion-Television Algerienne. French Service 0500-0005, English 1900-2000, Spanish 1100-1200 & 2000-2100. // 981, 9509, 9535, 9640, 15160, 15215.
- 261 Horizont (1st Programme).** 24 hours. Best time to try is 2100-0100, when USSR/Volga are off the air. // 1296 etc. Partially // 7670, 11660.
Radio Volga. 0455-2100. Own pxs Sun 0800-1100, Thurs 1530-1700, Mon-Wed & Fri-Sat 1830-1950, Sat 2100-2130. Moscow ES in German 0900-1000 & 2000-2100. Rest relay M1.
- 270 Radio Czechoslovakia.** 24 hours in Czech & Slovak. // 1071, 1233, 1521, 1584.
- 279 Moscow 1st (Orbita-4).** Russian programming 0000-1900. // 9490
Minsk 1st Programme. Belorussian & Russian 0100-2100. Local px 0515-0540. Partially // 5945 & 7140 (Grodno), 7210 & 9655 (Minsk) and 7320 (Moghilev).

You may have noticed that my logging of Kiev 2nd Programme on 207 kHz does not tie-in with the schedule I've given above - this is because on 1st July the Ukraine adopted a new time zone (UTC +3 for summer) and as a consequence their schedule changed.

Before I did this survey it hadn't quite clicked with me just how well French pop music fans are catered for, with no less than three French-speaking stations churning out Gallic (and some English) pop on longwave! I

It was an interesting experience to DX (it's a relative term!) the longwave band for the first time, but I suspect that the stations heard wouldn't vary much from day to day in any given season. So now my loop is back in "mediumwave mode" and I won't bother listening to the longwave band again until winter - who knows, if DLF can be persuaded to shurrup a minute then Iceland may be audible on 207 kHz!

Good listening! (Dave Kernick, July 1990)

BDXC Longwave Listening Exercise

11-12 October 1997

Over the weekend of 11-12 October 1997, British DX Club members were invited to participate in a listening exercise that covered the longwave band. As with previous listening exercises, this proved to be quite popular as the results below show from the November 1997 edition of "Communication".

kHz	UTC	Station, location, programme details etc	SIO	Date	Initis
153	1020	Deutschlandfunk, Königswusterhausen. Situation at Acapulco // 207, GG (maintenance Donebach for several hours for some weeks)	322	11/10/97	ASE
153	1300	Deutschlandfunk, Donebach. "Deutschlandfunk ... die Nachrichten" after pips. GG	444	11/10/97	NR
153	1330	Deutschlandfunk, Donebach.	555	11/10/97	ASE
153	1800	Deutschlandfunk, Donebach. GG talk, mixing with (pres) Russia + another station in background with local mx (also at 1345, 444)	333	11/10/97	DJM
153	1043	Deutschlandfunk, Donebach. Nx, talk about John Wayne. GG	434	12/10/97	TKR
153	2003	Deutschlandfunk, Donebach. News items. ID at 2005, then classical mx. GG	333	12/10/97	AKG
153	2133	Deutschlandfunk, Donebach. Broadway musicals // 207, GG	444	12/10/97	DK
153	0900	R Romania, Bod (Brasov). Folk mx	322	11/10/97	DJM
153	1956	R Romania, Bod (Brasov). "Georgia on my Mind", frequency ann, 1958 IS, "Aici Bucuresti, Radio Romania", TS	454	12/10/97	SV
153	0900	Russia (pres). Play	322	11/10/97	DJM
162	0900	France Inter, Allouis. (also 1345 - 555, 1800 - 555)	555	11/10/97	DJM
162	1045	France Inter, Allouis. Dialogue, FF	444	11/10/97	ASE
162	1100	France Inter, Allouis. Time pips, ID "Vous écoutez France Inter, le Journal". Nx, FF	444	11/10/97	AKG
162	1545	France Inter, Allouis. Jazz, FF talk	353	11/10/97	SV
162	1041	France Inter, Allouis. "All You Need is Love", Beatles. Talk about England. FF	555	12/10/97	TKR
162	2140	France Inter, Allouis. Jazz mx. EE/FF intros. FF	444	12/10/97	DK
171	2115	R Ukraine Int, Lvov. ID, mx, at 2155 schedule in EE. Foss Romanian	444	11/10/97	ASE
171	2140	R Ukraine Int, Lvov. Listeners letters and explanation of recent frequency drift to 171.6 kHz. EE programme	544	11/10/97	NR
171	2156	R Ukraine Int, Lvov. Closing anns in EE, then Ukrainian after IS at 2200. EE	433	11/10/97	AKG
171	2230	R Ukraine, Lvov. Local language, talk	433	11/10/97	SV
171	2100	R Ukraine Int, Lvov. ID, sign-on in Romanian, switching to EE (as usual) at 2130. Romanian/EE	344	12/10/97	DK
171	0900	Russia.(pres). Not // 153	434	11/10/97	DJM
171	1400	UNID. Two Russian sounding stations. Time signal x 2 out of phase	~~~	11/10/97	DJM
171	1800	UNID. Two Russian sounding stations	~~~	11/10/97	DJM
171	1106	Russia Radio 1, Bolshakovo. ID (translated?-ed) "Dear listeners to Radio 1 we present ..." Classical mx (Bumblebee), RR; no Ukraine heard at this time	343	11/10/97	AKG
171	1820	Russia Radio 1, Bolshakovo. Russian piano mx. Strongr than Kiev. RR	444	12/10/97	DK
171	2235	Medi 1, Nador. Pop mx, alternating with Ukraine	422	11/10/97	SV
171	2305	Medi 1, Nador. News about Jordan and Israel. // 9575. QRM Ukraine. AA	222	11/10/97	ASE
172	2100	UNID. Unstable carrier causing heterodyne to Russia & Ukraine	2~~	12/10/97	DK
177	0630	Deutschlandradio, Oranienburg. Weather at 0655, mx, nx at 0700. Pips, "Neun heur nachrichten". GG	333	11/10/97	AKG
177	1015	Deutschlandradio, Oranienburg. Women in the Catholic world. GG	443	11/10/97	ASE
177	1800	Deutschlandradio, Oranienburg. Classical mx. // 990	422	11/10/97	DJM
177	2330	Deutschlandradio, Oranienburg. "Lucy in the Sky With Diamonds". GG talk	444	11/10/97	SV
177	1037	Deutschlandradio, Oranienburg. Conversation about events in 1973. GG	423	12/10/97	TKR
177	2206	Deutschlandradio, Oranienburg. News, wx, ID. GG	333	12/10/97	DK
183	0900	Europe 1, Saarlouis. (also 555 at 1345)	555	11/10/97	DJM
183	1323	Europe 1, Saarlouis. "Spice Up; Your Life", ads, ID "Europe Un", mostly pop mx. FF	444	11/10/97	AKG
183	1335	Europe 1, Saarlouis. Dialogue. FF	444	11/10/97	ASE
183	0650	Europe 1, Saarlouis. Ads, economy. 0700 information, sports	353	12/10/97	SV
183	1035	Europe 1, Saarlouis. Formula 1 (Japan) result. Football. FF	545	12/10/97	TKR
183	2139	Europe 1, Saarlouis. Nx and sports. "Europe Un" jingle. FF	444	12/10/97	DK
189	2157	RUV, Gufuskalar (pres). EE pop mx, Spice Girls. Then presumed nx in Icelandic	242	11/10/97	NR
189	1814	RAI 2, Caltanisseta. Talk in Italian. // 846	222	12/10/97	DK
198	0900	BBC Radio 4, multi tx. (Also 555 at 1345 and 1800)	555	11/10/97	DJM
198	1350	BBC Radio 4, multi tx. Radio play. EE	554	11/10/97	ASE
198	0005	BBC World Service, mulit tx. Newsdesk	353	12/10/97	SV
198	1031	BBC Radio 4, multi tx. Jerry Hayes' new job as a journalist. EE	555	12/10/97	TKR
198	2201	BBC Radio 4, multi tx. News, European police co-operation. EE	444	12/10/97	AKG
207	0900	Deutschlandfunk, Aholming. GG talk. (Also at 1345 & 1800)	444	11/10/97	DJM
207	1020	Deutschlandfunk, Aholming. Situation in Acapulco. // 153. GG	444	11/10/97	ASE

207	1055	Deutschlandfunk, Aholming. John Wayne feature. // 153. GG	322	12/10/97	TKR
207	2140	Deutschlandfunk, Aholming. Show mx. // 153. GG	333	12/10/97	DK
207	2156	Deutschlandfunk, Aholming. ID at 2200 "Deutschlandfunk, null heur nachrichten", news. // 153 (slight time delay). GG	242	12/10/97	AKG
207	2335	Deutschlandfunk, Aholming. GG talk. Not // 177. GG talk	454	11/10/97	SV
207	1800	RT Marocaine-Azilal. // 612	222	11/10/97	DJM
207	2158	Ukrainian R (domestic svc), Kiev. Weather forecast for Ukraine. Ukrainian	322	12/10/97	DK
216	0900	R Monte Carlo-Roumoules. FF comedy. UNID in background. (also at 1345 and 1800. 555 at these times)	434	11/10/97	DJM
216	1550	R Monte Carlo, Roumoules. FF songs	454	11/10/97	SV
216	2125	R Monte Carlo, Roumoules. Pop mx, anns. FF	444	11/10/97	ASE
216	1057	R Monte Carlo, Roumoules. FF pop chart mx. Jingle "R-M-C". FF	444	12/10/97	TKR
216	2030	R Monte Carlo, Roumoules. ID "Radio Monte Carlo" sung as jingle. Pop mx. FF	343	12/10/97	AKG
225	~~~~	Poland not heard - tx off air for maintainance all weekend			DK
225	2050	Turkiye RT, Van. Turkish mx and phone calls from listeners // 1017 (only heard as Poland off). TT	232	12/10/97	DK
225	1800	UNID. Elevator mx. ID in UNID language 1901	343	11/10/97	DJM
234	0900	RT Luxembourg, Junglinster. (also at 1345 and 1800, 555 & 544. QRM from an UNID Russian at 1800)	555	11/10/97	DJM
234	1525	RT Luxembourg, Junglinster. Advert for Citroen. FF	544	11/10/97	ASE
234	2325	RT Luxembourg, Junglinster. FF rock	454	11/10/97	SV
234	1100	RT Luxembourg, Junglinster. Football. Marseille FC. World Cup qualifiers. FF	544	12/10/97	TKR
234	2018	RT Luxembourg, Junglinster. ID "Le Country Music Awards sur RTL". EE awards ceremony from Nashville with FF voice-over by announcer. FF/EE	444	12/10/97	AKG
243	0900	Danmarks R, Kalundborg. (Also discussion at 1345, 444. 1800 444)	444	11/10/97	DJM
243	1535	Danmarks R, Kalundborg. Telephone calls with listeners. Danish	555	11/10/97	ASE
243	1108	Danmarks R, Kalundborg. Current affairs, interviews. Danish	322	12/10/97	TKR
243	1930	Danmarks R, Kalundborg (pres). All talk, no ID's but Scandinavian language. Not // 1062). Danish	343	12/10/97	AKG
252	0900	Atlantic 252, Clarkestown. (Also 555 at 1345 and 544 at 1800 with QRM from presumed RT Algiers)	555	11/10/97	DJM
252	1055	Atlantic 252, Clarkestown. Adverts, ID, pop mx. EE	344	11/10/97	ASE
252	1123	Atlantic 252, Clarkestown. UK chart pop/rock mx. EE	555	12/10/97	TKR
252	1929	Atlantic 252, Clarkestown. "Longwave Radio Atlantic 252". Pop/rock	454	12/10/97	SV
252	1948	Atlantic 252, Clarkestown. "Longwave Radio Atlantic 252". Pop mx, Elton John etc. Ads for records. EE	444	12/10/97	AKG
252	1825	RT Algerienne, Tipaza. AA mx	444	11/10/97	SV
252	2030	R Algiers Int, Tipaza. EE Svce. Pop mx. Talk about landmine ban. Only audible on portable using internal aerial to null out Atlantic 252. EE	222	12/10/97	DK
261	0900	UNID. GG station. Melodic EE pop (also sports report at 1410, 233 and EE pop at 1800, 323)	343	11/10/97	DJM
261	1203	RadioRopa, Burg. Weather, traffic. GG	444	11/10/97	ASE
261	1947	RadioRopa, Burg. ID at 1948, GG talk, mx "The Power of Love". GG	222	11/10/97	AKG
261	2000	R Rossii, Taldom. Pips, National Anthem. "00.01 in Moscow, the new day, 13th October, news". RR	222	12/10/97	AKG
261	2200	R Rossii, Taldom. ID, news. RR	222	11/10/97	DK
261	2340	Horizont, Sofia. International pop mx, orchestral mx. 2400 ID "Horizont". Time signal	353	11/10/97	SV
270	0900	Radiozurnal, Uherske Hradiste. Czech ID (also at 1345, 242)	444	11/10/97	DJM
270	2145	Radiozurnal, Uherske Hradiste. ID as "Radio Journal", pop mx. CZ	433	11/10/97	ASE
270	1650	Radiozurnal,, Uherske Hradiste. Football reports. ID "Cesky Rozhlas binda Radio-zhurnal" after pips at 1700 UTC. Czech	444	12/10/97	AKG
270	2001	Radiozurnal, Uherske Hradiste. Local language. Nx, sports	454	12/10/97	SV
270	2137	Radiozurnal, Uherske Hradiste. EE pop mx. ID in full. Czech	444	12/10/97	DK
279	1730	Belorussia (pres). Classical. UNID talk station QRM. CW QRM	544	12/10/97	DJM
279	2130	R Minsk, Sesnovy. Prog in RR not Belorussian. Ann "Govorit Minsk", orchestral mx, at 2155 "Wa wish you a peaceful night". Close at 2201. RR	343	11/10/97	AKG
279	2135	Belarusian R-Sasnovy (tent). Programme info. Dance mx. RR	444	11/10/97	ASE
279	2145	Belarusian R-Sasnovy. Orchestral mx from Belarusian Symphony Orchestra. Sign-off at 2202. Belorussian	444	12/10/97	DK
279	2250	Turkmen R, Ashkhabad. Local mx, // 5015 (possible after sign-off from BLR. Times in WRTH for BLR are wrong: Not each day: But I listen to TKM on the same QRG for a lot of days. Turkmen	233	11/10/97	ASE
279	2202	Turkmen R, Ashkhabad. YL talk (nx?) in Turkmen, typical stringed Turkmen mx. // 5015. Turkmen	233	12/10/97	DK
279	2205	Turkmen R, Ashkhabad (pres). Middle Eastern/Asian mx, some talk. No ID's at 2300. //5015. Good peaks (I have heard R Rossii ID on this frequency at 0000 UTC during the summer). Turkmen?	141	12/10/97	AKG

[please see page 11 for contributors' initials for this listening exercise]

Longwave Frequency Survey

April 1998

The following list was published in the April 1998 edition of British DX Club's "Communication" magazine.

This list details all stations believed to be currently active on longwave in Europe, Russia (west of the Urals), North Africa and the Middle East. Turkmenistan on 279 is also listed as this has been heard here in the UK. All sign-on and sign-off times are those likely to be effective from 29 March 1998, but are subject to confirmation.

153 ALGERIA (Bechar 1000 kW)
24 hours - RTA Channel One in Arabic

153 GERMANY (Donebach 500 kW)
24 hours - Deutschlandfunk in German

153 ROMANIA (Brasov-Bod 1200 kW)
24 hours - Romanian Radio First Programme (Romania-Actualitati) in Romanian

153 RUSSIA (Moscow-Taldom 300 kW)
0200-2100 - Radiostantsiya Yunost in Russian

162 FRANCE (Allouis 2000 kW)
24 hours - France-Inter in French

162 TURKEY (Agri 1000 kW)
0400-2200 - TRT Network 2 in Turkish
2200-0200 - relay of FM TRT Night Programme in Turkish (subject to confirmation)

171 UKRAINE (Lvov 1000 kW)
24 hours - Ukrainian Radio First Programme in Ukrainian, including relays of Radio Ukraine International overnight

171 RUSSIA (multi-transmitter in Euro-Russia and Belarus, max 2500 kW)
0200-2100 - Radio Odin in Russian

171 MOROCCO (Nador 2000 kW)
0500-0100 - Radio Mediterranee Internationale (Medi 1) in Arabic/French

177 GERMANY (Oranienburg 500 kW)
24 hours - DeutschlandRadio in German

180 TURKEY (Potatli 1200 kW)
0200-2200 - TRT Network 2 in Turkish
2200-0200 - relay of FM TRT Night Programme in Turkish (subject to confirmation)

183 GERMANY (Saarlouis 2000 kW)
0300-2100 Mo-Fr - Europe 1 in French
24 hours Sa-Su - Europe 1 in French

189 GEORGIA (Tbilisi 500 kW)
0000-2030 - Georgian Radio First Programme in Georgian

189 ICELAND (Gufuskalar 150 kW)
24 hours - Ríkisútvarpið RAS 1 in Icelandic.

189 ITALY (Caltanissetta 10 kW)
0400-2200 - RAI Radiodue in Italian

198 ALGERIA (Ourgla 1000 kW)
24 hours - RTA Channel One in Arabic

198 UNITED KINGDOM (Droitwich 500 kW, Burghead & Westerglen 50 kW)
0450-0000 - BBC Radio 4 in English
0000-0450 - BBC World Service in English

198 RUSSIA (European-Russia, multi-transmitter, max 150 kW)
24 hours - Mayak in Russian

198 TURKEY (Etimesgut 120 kW)
0200-2200 - TRT Network 1 in Turkish

207 GERMANY (Aholming 500 kW)
24 hours - Deutschlandfunk in German

207 ICELAND (Eidar 100 kW)
24 hours - Ríkisutvarpid RAS 1 in Icelandic

207 JORDAN (Al Karanah 600 kW)
24 hours - Radio Jordan Arabic Service

207 MOROCCO (Azilal 800 kW)
24 hours - RTM Network A in Arabic

207 UKRAINE (Kiev 500 kW)
0200-2200 - Ukrainian Radio First Programme in Ukrainian

216 AZERBAIJAN (Gyanca 500 kW)
0200-2100 - Azerbaijani Radio First Programme in Azeri

216 MONTE CARLO (Roumoules 1400 kW)
24 hours - Radio Monte Carlo in French, except for TWR programme in French at 0230-0300

225 POLAND (Konstantynow 600 kW)
24 hours - Polish Radio First Programme in Polish

225 TURKEY (Van 600 kW)
0200-2200 - TRT Network 2 in Turkish

234 LUXEMBOURG (Junglinster 2000 kW)
24 hours - RTL French Service

234 RUSSIA (European-Russia, multi-transmitter, max 2000 kW)
0200-2100 - Radio Odin in Russian

234 ARMENIA (Kamo 500 kW)
0200-2100 - relay of Radio Odin from Moscow (subject to confirmation)

243 DENMARK (Kalundborg 300 kW)
0400-2210 Mo-Fr - Danmarks Radio First Programme in Danish
0600-2300 Sa - Danmarks Radio First Prog in Danish 0600-1830, Second Prog in Danish 1830-2300
0600-2200 Su - Danmarks Radio First Programme in Danish
note: there is a relay of R Danmarks External Svce in Danish at 1830-1855 daily

243 TURKEY (Erzurum 200 kW)
0200-2200 - TRT Network 1 in Turkish

252 ALGERIA (Tipaza 750/1500 kW)
0500-1900 - RTA Channel Three in French
1900-2000 - R Algiers International in Spanish
2000-2100 - R Algiers International in English
2100-0100 - RTA Channel Three in French

252 ARMENIA (Yerevan 150 kW)
0100-2300 - Armenian Radio First Programme in Armenian

252 IRELAND (Kilmessan 100/500 kW)
24 hours - Atlantic 252 in English

252 RUSSIA (Kazan 150 kW)
0200-2100 - Radio Odin in Russian

261 GERMANY (Burg 50 kW)

24 hours - RadioRopa Info in German, includes Radio Sweden German Service Mo-Sa 1830-1900 & Su 1830-1930 (prior to introduction of summer time on 29 March, tests from Radio Austria International in German were being broadcast Sats 0900-1000 and daily 1900-2000)

261 RUSSIA (Moscow-Taldom 2500 kW)

0000-2300 - Radio Rossii in Russian

261 BULGARIA (Sofia 60 kW)

24 hours - Bulgarian Radio Horizont Programme in Bulgarian

270 CZECH REPUBLIC (Uherske Hradiste 750 kW)

0200-2200 Mo-Fr - Czech Radio First Programme in Czech

0300-2200 Sa-Su - Czech Radio First Programme in Czech

279 BELARUS (Sasnovy 500 kW)

0300-2200 - Belarusian Radio First Programme in Belarusian

279 TURKMENISTAN (Asgabat 150 kW)

0000-2300 - Turkmen Radio in Turkmen and Russian

Contributors to the October 1997 listening exercise were:

AKG	Andy Goodwin	Malvern, Worcestershire	Lowe HF225 / LW
ASE	Adolf Schwegeler	Erftstadt, Germany	JRC NRD525GF modified / 41m dip, 30m LW
DJM	David Morris	Lychett Matravers, Dorset	Kenwood KRC64SL car radio
DK	Dave Kenny	Caversham, Berkshire	Lowe HF225E, Racal RA1792 / 30m LW, 90m bev.
NR	Nick Rank	Buxton, Derbyshire	Sony ICF2001D / 30m LW & preselector
SV	Stefano Valianti	Bologna, Italy	Grundig Ocean Boy 330 / built-in ferrite ant.
TKR	Tom Read	Macclesfield, Cheshire	Tatung TMR7602, Blaupunkt Bristol 27



Tops of the Droitwich masts as seen from nearby Webbs of Wychbold Garden Centre, February 2023 (TR)

LONGWAVE MONITORING REPORT

Observations and notes made by Tony Rogers using various online SDR's during January 2023

This is a selection of observations and notes made at various times throughout January 2023.

Sadly, it includes the closedown of RTL on 234 kHz on 1 January 2023 and shows how the longwave band has shrunk to just a handful of active stations by the start of 2023.

153 kHz - Antena Satelor, Braşov, Romania

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
153	10/01/23	2155	Antena Satelor, Braşov, ROU. Play in Romanian, Antena Satelor ID at 2200 and then continued with what was presumably "Program Muzical Nocturn" as per website; very good reception (heard on Bucharest KiwiSDR, Romania)

153 kHz - Radio Algérienne, Chaîne 1, Kénadsa, Algeria

There was no trace of this transmitter being on air when checked at various times throughout January using the Elche KiwiSDR in Spain (it may of course have been on air at times when I wasn't listening but I've not seen any reports to suggest this)

162 kHz - TDF, Allouis, France

Carrier always present when checked on various SDR's around Europe, presumably transmitting the data for devices that depend on it.

164 kHz - Mongolian Radio, Ulaanbaatar, Mongolia

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
164	02/01/23	1445	Mongolian Radio, Ulaanbaatar, MNG. Mongolian music until 1455, then announcement in Mongolian, orchestral version of National Anthem and sign-off at 1500; fair (heard on Chongqing KiwiSDR, China)
164	02/01/23	2200	Mongolian Radio, Ulaanbaatar, MNG. Carrier first appeared at 2146, continuous tone at 2147 until 2152, pause until time pips at 2200 (5+1), followed by ten-note interval signal repeated 8 times, ID's at 2202 "Mongolyn Radyo ..." (or similar), choral version of National Anthem, opening announcement, and start of day's programming, beginning with presumed news in Mongolian; good (heard on Chongqing KiwiSDR, China)
164	02/01/23	2215	Mongolian Radio, Ulaanbaatar, MNG. Audible on this SDR in Russia but much weaker than on the Chongqing SDR (heard on Novosibirsk KiwiSDR, Russia)
164	04/01/23	1445	Mongolian Radio, Ulaanbaatar, MNG. Same sign-off procedure as 02/01/23; programme of instrumental music from tune-in at 1445 until 1455, then announcement in Mongolian until orchestral version of National Anthem at 1457, off at 1500 (heard on Chongqing KiwiSDR, China)

171 kHz - Médi 1, Nador, Morocco

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
171	09/01/23	1415	Médi 1, Nador, MRC. Programme of modern-sounding North African-style songs, presenter in Arabic, longer talk in Arabic at 1420 (news?), three-minute news bulletin in French at 1430 ending with mention of "Médi Un a Dakar ..." and then back into Arabic (heard on Elche KiwiSDR, Spain)

189 kHz - RÚV Rás 1/2, Gufuskálar, Iceland

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
189	13/01/23	2050	RÚV, Rás 2, Gufuskálar, ISL. "Fuzz" Rock music show (as per website), including references to Jeff Beck; excellent reception // 209 (heard on Raufarhofn KiwiSDR, Iceland)

198 kHz - BBC Radio 4, Droitwich, England

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
198	10/01/23	1754	BBC R4, Droitwich, G. Shipping Forecast, followed by the general weather forecast for the UK. Strong reception on this SDR, as expected, which is approx. 60 miles away from Droitwich (heard on Stone KiwiSDR, Staffordshire, England)

207 kHz - RÚV Rás 1/2, Eiðar, Iceland

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
207	10/01/23	1850	RÚV, Rás 1, Eiðar, ISL. Weather reports in Icelandic, followed by obituaries (as scheduled on their website) and sombre music; excellent reception // 189 (heard on Raufarhofn KiwiSDR, Iceland)

209 kHz - Mongolian Radio, multiple locations (Choibalsan / Dalanzadgad / Ulgii), Mongolia

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
209	05/01/23	1455	Mongolian Radio, three locations at Choibalsan; Dalanzadgad; Ulgii, MNG - all 40 kW in MWList/WRTH 2022 (nominal 75 kW), MNG. Usual sign-off routine, closing announcement in Mongolian, followed by orchestral version of National Anthem at 1457; on this occasion the strongest transmitter, heard on the Chongqing SDR with fair reception, was switched off before the end of the anthem, leaving a much weaker signal audible with it until the end at 1500 (heard on Chongqing KiwiSDR, China)
209	13/01/23	2200	Mongolian Radio, three locations at Choibalsan; Dalanzadgad; Ulgii, MNG. Very difficult to detect any audio at sign-on 2200 although SDR waterfall suggests there was at least one carrier present; however at 2205 there was a switch on or power increase for one transmitter giving weak but clear reception // 164; at 2210 a further increase in strength as if another transmitter may have been switched on or the existing one had increased power; actually better than 164 now (heard on Chongqing KiwiSDR, China)

225 kHz - Polskie Radio Jedyńka, Solec Kujawski, Poland

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
225	13/01/23	1100	Polskie Radio Jedyńka, Solec Kujawski, POL. Time pips (5+1) followed by Bugle Call from St Mary's Tower, then news in Polish at 1105; excellent reception (heard on Szekesfehervar KiwiSDR, Hungary)
225	13/01/23	1740	Polskie Radio Jedyńka, Solec Kujawski, POL. Vatican Radio Diary, which started with a version of the familiar interval signal that is used by Vatican Radio itself (heard on Szekesfehervar KiwiSDR, Hungary)

227 kHz - Mongolian Radio, Altai, Mongolia

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
227	07/01/23	2200	Mongolian Radio, Altai, MNG. Carrier on at 2156, then off for a few seconds, before coming back on, pause until what seemed like a single pip 2200 (although may have been 5+1 with only last pip heard), then interval signal sequence to opening ID "Mongolyn Radio" and choral version of National Anthem; weak (heard on Chongqing KiwiSDR, China)
227	09/01/23	1450	Mongolian Radio, Altai, MNG. Programme of instrumental music leading up to the end of the day's broadcast, closing announcement in Mongolian as expected at 1455, then orchestral version of National Anthem at 1457, carrier off at 1500; weak but clear reception at this location (heard on Novosibirsk KiwiSDR, Russia; the Chongqing KiwiSDR was offline at this time)

234 kHz - RTL, Beidweiler, Luxembourg

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
234	01/01/23	2359	RTL, Beidweiler, LUX. Last minute of Georges Lang's programme ending with "Vous écoutez RTL ... tomorrow is another day" and carrier cut at 0000 UTC (0100 CET). This observation marks the end of LW transmissions from RTL

243 kHz - DR Langbølge, Kalundborg, Denmark

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
243	16/01/23	0735	DR Langbølge, Kalundborg, DNK. Morning gymnastics in progress, brief announcement, repeated musical tune played on different instruments (interval signal), ID in Danish at 0744, followed by weather reports, interval signal played again at 0758, time pips at 0800 and news bulletin in Danish, ended at 0805 (heard on Vejby KiwiSDR, Denmark)

252 kHz - RTÉ Radio 1, Clarkstown, Ireland

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
252	13/01/23	1755	RTÉ R1, Clarkstown, IRL. "Drivetime", interview, ads, weather forecast at 1800, followed by Angelus bells at 1801, then news; Algeria very noticeable in background (heard on Malin KiwiSDR, County Donegal, Ireland)

252 kHz - Radio Algérienne, Chaîne 3, Tipaza, Algeria

<i>kHz</i>	<i>Date</i>	<i>UTC</i>	<i>Station, location, programme details and other notes</i>
252	09/01/23	1400	Radio Algérienne, Chaîne 3, Tipaza, ALG. News in French, followed by programme intro over Pink Floyd's "Brick in the Wall", then English-language pop music, mention of "Radio Nationale Algérienne" by presenter; very good reception; first of daily checks of 252 kHz to be made at various times for remainder of January (heard on Elche KiwiSDR, Spain)
252	10/01/23	1900	Radio Algérienne, Chaîne 3, Tipaza, ALG. Time pips (5+1), three minute news bulletin in French, then lively entertainment programme; good reception (heard on Elche KiwiSDR, Spain)

Tony Rogers, January 2023