

Some radio signals below 150 kHz heard in Europe

kHz	Callsign	Station	Country	Mode	Remarks
0.082		Navy; near Murmansk	RUS	Very slow "RTTY"	received in Italy 2000/2001
11.905, 12.649, 14.881		RSDN-20 ("Alpha") navigation system	RUS	Pulses	
15.1		Unid		RTTY 100 Bd	9/2000
16.0	GBR	Navy Rugby	G	RTTY 75, 200 Bd	200 Baud as of 5/2000
16.3	VTX1	Navy Vijayanarayanam	IND	CW	rare; 11/2000
16.4	JXN	Navy Novik ("Helgeland")	NOR	RTTY 200 Bd	
16.8		Unid		RTTY	
17.0	VTX2	Navy Vijayanarayanam	IND	CW	rare; 10/2000 heard in NOR
17.2	SAQ	Grimeton	S	CW	historical transmitter, operating 1-2 x per year
18.1	RDL	Navy Krasnodar	RUS	RTTY 50 Bd, CW	& other locations
18.1	RKS	Navy Murmansk (?)	RUS	RTTY 50 Bd, CW	
18.1	RLO	Navy Ryazan (?)	RUS	RTTY 50 Bd, CW	
18.2	VTX3	Navy Vijayanarayanam	IND	CW	
18.3	HWU	Navy Le Blanc	F	RTTY 200 Bd	
18.9	RKS	Navy Murmansk (?)	RUS	RTTY 50 Bd, CW	rare
19.0	GBZ ?	Navy Criggion?	G	RTTY 100 Bd	
19.6	GBZ ?	Unid	G	RTTY	
20.3	ICV	Navy Tavolara, Sardinia	I	RTTY 100, 200 Bd	
20.6	3SA	Navy Changde	CHN	CW	
20.9	HWU	Navy Le Blanc	F	RTTY 200 Bd	
21.1	RDL	Russian Navy	RUS	RTTY 50 Bd, CW	Krasnodar & other locations
21.4		Unid		RTTY	
21.75	HWU	Navy Le Blanc	F	RTTY 200 Bd	
23.4	DHO38	Navy Ramsloh	D	RTTY 200 Bd	now DHJ58 ?
24.0	NAA	Navy Cutler, ME	USA	RTTY 200 Bd	
25.0	RJH63	Krasnodar TS	RUS	CW	
25.0	RJH66	Bishkek TS	KGZ	CW	ex USB2
25.0	RJH69	Molodecno TS	BLR	CW	ex UNW3
25.0	RJH77	Arkhangelsk TS	RUS	CW	ex UPD8
25.0	RJH99	Nizhny Novgorod TS	RUS	CW	ex UTR3
25.0	RAB99	Khabarovsk TS	RUS	CW	ex UQC3; never heard
25.2		Navy (?) La Moure, ND	USA	RTTY 200 Bd?	ex Omega navaid station
26.7	TBB	Navy Bafa	TUR	RTTY 50, 100 Bd	
27.4	RDL	Russian Navy	RUS	RTTY 50 Bd, CW	unknown location. Far East?
28.5		Unid	USA?	RTTY	
37.5	NRK	US Navy Keflavik	ISL	RTTY 200 Bd	Tx location Grindavik?
38.0	SHR/"SRC"	Navy Ruda	S	CW, RTTY (ITA-2) 50 Bd	

40.4	SAS/"SRC"	Navy Varberg	S	CW, RTTY (ITA-2) 50 Bd	
42.5	SAS2/"SRC"	Navy Varberg	S	CW, RTTY (ITA-2) 50 Bd	
40.8	NAU	US Navy Aguada	PTR	RTTY 200 Bd	
44.2	"SRC"	Navy, unknown location	S	CW, RTTY (ITA-2) 50 Bd	apparently not Varberg
45.9	NSY	US Navy Niscemi	I	RTTY 200 Bd	
49.0		Unid	GRC?	RTTY 50 Bd, 200 Bd	
50.0	OMA	<i>Praha TS</i>	CZR	CW, PSK	QRT 31-DEC-1995
50.0	RTZ	Irkutsk TS	RUS	CW	heard in 2/2001
51.95	GYN1	Royal Navy Thurso	G	RTTY 50/75, 100 Bd	
53.0	DHJ59	Navy Wilhelmshaven	D	RTTY 75 Bd / 70 Hz	
53.4	TBG	Navy Canakkale	TUR	RTTY 100 Bd	
53.6	RTO	<i>Moskva Meteo</i>	RUS	FAX 90/120 rpm	now 53.8. Nil after 04/2000
56.4		Unid Royal Navy. Inskip?	G	RTTY 50/75	rare. Plain text in 9/1999
57.4		Unid		RTTY 75 Bd	
57.7	LBA	Navy Gossen/Trondheim	NOR	RTTY 75 Bd	
60.0	WWVB	Ft. Collins TS, CO	USA	CW	
60.0	MSF	Rugby TS	G	CW	
61.8	GIZ20 ?	Royal Navy Inskip	G	RTTY 50/85, 100 Bd	Two channels
62.6		Unid French Navy	F	RTTY 200 Bd	
63.8		Unid		RTTY 200 Bd	
64.6	GBV20 ?	Unid	G	RTTY 75 Bd	
65.8		Unid		RTTY 200 Bd	
66.7	RBU	Moskva TS	RUS	AM, CW	
68.0	GBY20 ?	Royal Navy	G	RTTY 50, 100 Bd	
68.9	DHJ58	Navy Glücksburg	D	RTTY 75 Bd	now DHO38 ?
73.2		Royal Navy	G	RTTY 50 Bd, 75 Bd	2 channels
73.6		Unid		RTTY 75 Bd	nighttime only
75.0	HBG	Nyon (Prangins) TS	SUI	CW	
77.5	DCF77	Mainflingen TS	D	CW & PSK	
78.2		Unid Royal Navy	G	RTTY 75 Bd	
81.0	GYN2	Royal Navy	G	RTTY 50 Bd	
82.8	MKL	RAF Kinloss	G	RTTY 75 Bd, CW	CW ceased 3/2001
87.0		Unid		RTTY 75 Bd	
87.8		Unid		RTTY 75 Bd	paired with 87.0?
90-110		LORAN Navigation			
111.3	SOA211	<i>Warszawa Meteo</i>	POL	RTTY (ITA-2) 50 Bd	QRT 1999
111.8		Unid	CZR	Unid data bursts	Mo-Fr day time. 1999/00 nil
118.8	GYE ?	Royal Navy	G	RTTY 100 Bd	
119.0	IDQ	<i>Navy Roma</i>	I	CW	last log 1994
119.8	SXA	<i>Navy Spata Attikis</i>	GRC	CW	QRT 1996
120.9		Unid		RTTY 75 Bd	
122.3	OUA	Navy Århus	DNK	RTTY 75 Bd	

123.7	DCF42	Telekom Mainflingen	D	SSB-2-PSK	DGPS. Pilot tone 122.5 kHz
125.8		Unid		RTTY	
129.1	DCF49	EFR Mainflingen	D	ASCII/Binary 200 Bd	telecontrol
129.5	SOA212	<i>Warszawa Meteo</i>	<i>POL</i>	<i>RTTY (ITA-2) 50 Bd</i>	<i>QRT mid 2000</i>
129.8	FUO ?	Navy Toulon?	F	RTTY 50 Bd / 85 Hz	bearings indicate Toulon
130.0		Unid		RTTY 75 Bd	
131.7		Datatrak Navigation	G, HOL		
132.5		Datatrak (?) Navigation			short pulses
133.2		Datatrak Navigation			
135.0		Unid		RTTY	
135.8	SVX	Navy Marathon	GRC	RTTY 75 Bd	
135.7 - 137.8		Amateur Radio			
139.0	DBF39	EFR Burg	D	ASCII/Binary 200 Bd	telecontrol // 129.1
139.0	<i>TBA</i>	<i>Navy Ankara</i>	<i>TUR</i>	<i>CW</i>	<i>QRT?</i>
141.4		Unid		RTTY	
144.5	<i>RCG</i>	<i>Moscow Meteo</i>	<i>RUS</i>	<i>FAX 90/120 rpm</i>	<i>QRT 8/1997</i>
144.6		Datatrak Navigation			
145.0		Unid		RTTY	RUS near Murmansk; or E
145.5		Datatrak (?) Navigation			similar to 132.5
146.4		Datatrak (?) Navigation			alternate system?
146.8		Unid		RTTY 300 Bd	N/S of 53N 8E, also heard in NOR and GRC
147.3	DDH47	Hamburg Meteo	D	RTTY (ITA-2) 50 Bd	
147.8		Unid	I ?	RTTY 75 Bd, 100 Bd	nil after 1998

Italics: Transmissions have ceased.

Note 1: "RTTY" is used as a collective term for various FSK or PSK modes. In general, synchronous, encrypted systems are used, except where noted.

Note 2: Call signs are often meaningless or misleading, as they are hardly transmitted anymore. Or collective call signs are used (i.e. "RDL", Russian Navy), which do not tell the transmitter location.

Last update: 1 July 2001