

IARU Monitoring System Region 1

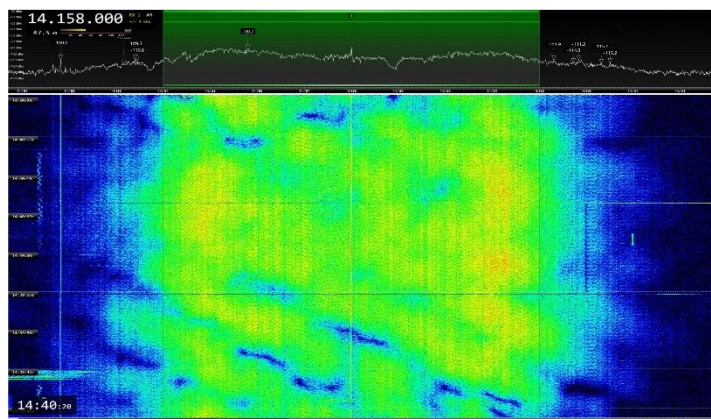


Monthly Newsletter - April 2022

News and info

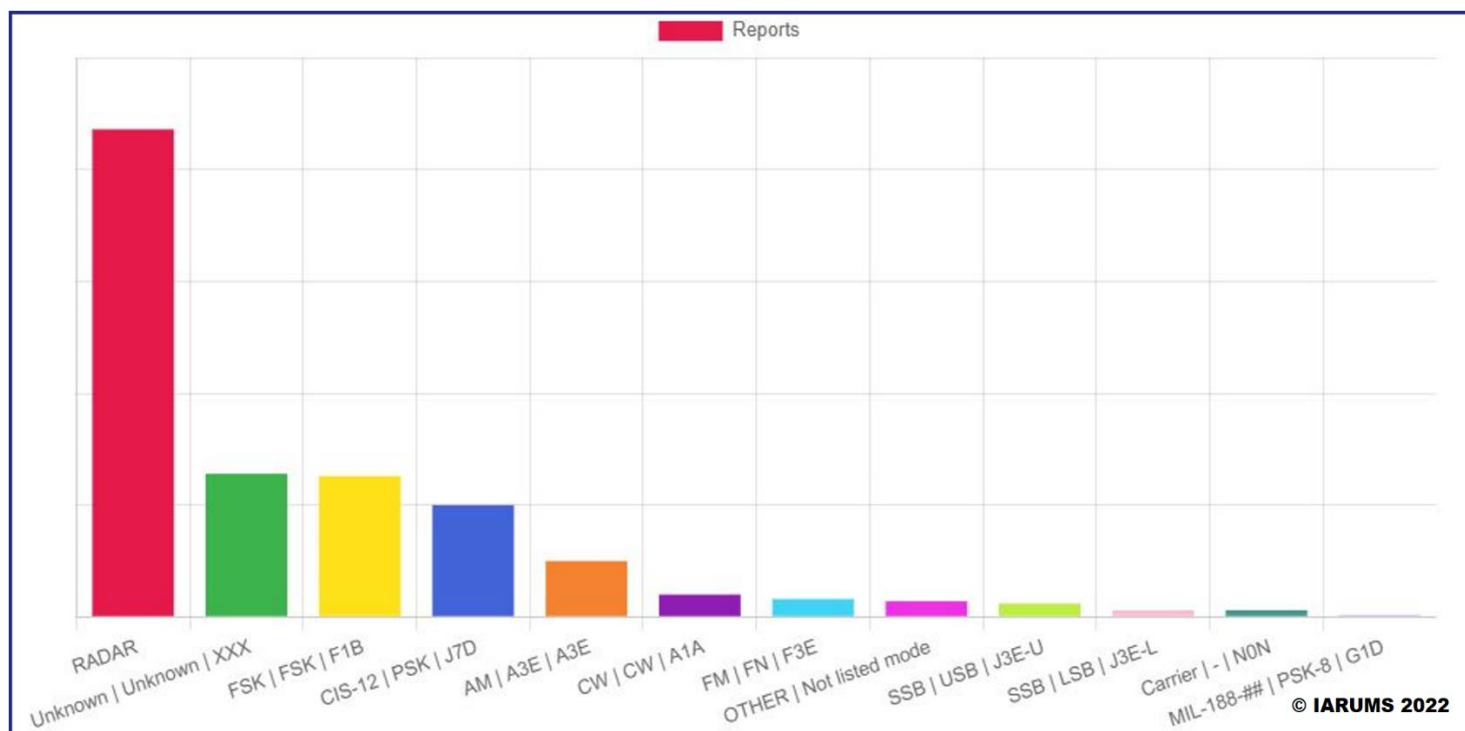
During April we continue to receive, as since the beginning of the military conflict taking place in IARU Region 1, and coinciding with its start, some signals of unknown type for the time being, in addition to the unfortunately usual intrusions in our HF amateur radio bands.

The most frequent of these is an emission we often receive on the 40 and 20 m bands, with a bandwidth of about 8 kHz, which could possibly be a jammer (signal intentionally transmitted over other transmissions in order to disrupt or nullify their reception).



XXX. BW ca 8 kHz. Possible jammer?

Among the intruders operating regularly in our bands, radars were once again, in terms of number, duration and power of their emissions, the most damaging intrusions, as can be seen in the graph in the IARUMS database. Followed by FSK CIS - ## type transmissions and other military modes, we also received some pirate emissions, mostly in the 10 m band, in addition to the annoying transmissions of several broadcasting stations in the 40 m band.



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Detailed reports of national coordinators

Abbreviations used (as per IARUMS definitions)

aka = also known as | **BC** = Broadcast | **BD** = Baud, (or also Burst duration) | **BRI** = Burst repetition interval | **BW** = Bandwidth | **ca** = approximate | **CHN** = **PRC** = People’s Republic of China | **CF** = Center frequency | **DF** = Direction finding (radio location; see also TDoA) | **FMCW** = frequency modulated continuous wave | **FMOP** = frequency modulated on pulse | **OTHR** = over the horizon radar | **Radar** = if exact mode unknown | **SH** = Shift (Hz) | **sps** = sweeps per second | **TDoA** = Time difference of arrival | **ui** = **unid** = unidentified.

DARC; Daniel, DL3RTL. Credit to monitors: DL8LAQ, Norbert. F4FPR, Benjamin. DL4HG, Olaf. DL2SCH, Juergen. DG2MB, Martin. DA1YS, Ronald. DF5JL, Tom. DF2KS, Sven. DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7003,0	1825	22	04					3k	unid
7004,4	1820	20	04					3k	unid
7008,0	1712	07	04					12k	unid
7008,0	2018	15	04					7k	unid digital
7008,5	2018	15	04					2k6	unid digital
7012,0	1906	04	04					12k	unid
7012,6	2126	15	04					2k5	unid (CLOVER 2500???)
7013,0	1755	08	04					12k	unid
7013,0	0639	09	04					7k	unid digital
7015,0	1817	06	04					12k	unid
7015,0	1818	06	04					8k	unid
7015,0	2210	15	04					3k	unid
7015,6	1803	08	04					1k2	unid digital
7016,0	1633	08	04					12k	unid digital
7016,0	1855	11	04					9k	unid
7016,0	1746	12	04					12k	unid
7019,0	1938	25	04					16k	unid
7021,0	1930	11	04	RUS		FMOP	40	12k	OTHR Contayner
7022,0	1755	08	04					12k	unid
7022,4	1635	04	04					2k8	unid
7025,0	2030	06	04	RUS		FMOP	40	12k	OTHR Contayner
7025,8	vt	dly	04	RUS		PSK		2k4	CIS-12
7030,0	1828	04	04					12k	unid
7030,0	1855	11	04					9k	unid
7031,4	1733	11	04					850	unid; 2,2 sec data bursts
7044,0	1802	02	04					16k	unid
7047,0	1722	18	04					3k	unid
7048,0	2103	29	04	RUS		FMOP	40	12k	OTHR Contayner
7048,5	1603	14	04					2k7	unid digital
7050,0	1718	08	04			J3E-L		3k1	UKR/RUS radio war
7055,0	vt	dly	04	UKR		J3E-L		2k9	UKR/RUS radio war
7059,0	2046	06	04	CHN			66,67	10k	OTHR 3,8s bursts
7059,0	1942	11	04	RUS		FMOP	40	12k	OTHR Contayner
7061,5	1706	07	04	UKR		J3E-L		3k1	UKR/RUS radio war
7064,0	1650	04	04	UKR		J3E-L		2k9	UKR/RUS radio war

DARC; Daniel, DL3RTL. Credit to monitors: DL8LAQ, Norbert. F4FPR, Benjamin. DL4HG, Olaf. DL2SCH, Juergen. DG2MB, Martin. DA1YS, Ronald. DF5JL, Tom. DF2KS, Sven. DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7064,0	2250	09	04	RUS		FMOP	40	12k	OTHR Contayner
7065,3	vt	vd	04	RUS		PSK		2k4	CIS-12
7073,0	1649	04	04	UKR		J3E-L		2k9	UKR/RUS radio war
7080,0	1746	11	04			F1B		200	FSK-Traffic
7087,0	1647	04	04	UKR		J3E-L		2k9	UKR/RUS radio war
7088,0	2043	02	04			F1B		200	FSK-Traffic
7090,0	2023	13	04	RUS		FMOP	40	12k	OTHR Contayner
7100,0	1645	04	04	UKR		J3E-L		2k9	UKR/RUS radio war
7103,0	2140	07	04	RUS		FMOP	40	12k	OTHR Contayner
7108,0	2146	08	04	RUS		FMOP	40	12k	OTHR Contayner
7110,0	vt	vd	04	ETH		A3E		9k	Radio Ethiopia
7110,0	1907	18	04					4k	unid
7110,4	1600	09	04			A1A			News Ticker in CW
7115,0	1958	04	04	RUS		FMOP	40	12k	OTHR Contayner
7119,0	1816	06	04	CHN			66,67	10k	OTHR 3,8s bursts
7125,0	2103	06	04	CHN			66,67	10k	OTHR 3,8s bursts
7151,7	1635	25	04					1k3	unid; TDoA Black Sea
7151,7	1925	26	04					1k3	unid; TDoA Black Sea / Sevastopol
7161,0	1702	14	04					5k	unid digital
7163,4	1702	14	04					8k	unid digital
7170,0	2035	29	04	RUS		FMOP	40	12k	OTHR Contayner
7185,0	2140	28	04	RUS		FMOP	40	12k	OTHR Contayner
7195,7	1330	02	04			PSK8A	2400	2k8	STANAG 4285
10128,0	2052	11	04	RUS		FMOP	40	12k	OTHR Contayner
14008,0	0835	17	04					3k	unid
14013,8	1522	20	04	RUS		PSK		2k4	CIS-12, mostly on idle
14014,0	1459	29	04	CHN			50	10k	OTHR 5,1s bursts
14024,8	1340	08	04					8k	unid
14032,0	1423	24	04					8k	unid
14044,0	0713	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14053,0	0817	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14054,0	1616	20	04					7k	unid
14056,0	1626	20	04	CHN			41,67	10k	OTHR 6,1s bursts
14075,0	1741	08	04					12k	unid
14075,0	1746	08	04					7k	unid digital
14078,0	1840	06	04	CHN			41,67	10k	OTHR 6,1s bursts
14096,0	0817	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14099,0	1018	24	04					7k	unid
14101,0	1734	04	04	CHN			41,67	10k	OTHR 2,98s bursts
14107,0	1410	01	04	RUS		FMOP	40	12k	OTHR Contayner
14108,0	1455	02	04					8k	unid
14111,0	1645	08	04	CHN			50	10k	OTHR 5,1s bursts
14112,0	2003	06	04	RUS		FMOP	40	12k	OTHR Contayner
14127,0	0817	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14135,0	1643	11	04	RUS		FMOP	40	12k	OTHR Contayner
14137,0	0708	15	04	CHN			66,67	10k	OTHR 3,8s bursts

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14139,0	1800	02	04	RUS		FMOP	40	12k	OTHR Contayner
14156,0	1846	27	04	RUS		FMOP	40	12k	OTHR Contayner
14162,0	1822	14	04	RUS		FMOP	40	12k	OTHR Contayner
14163,0	1920	18	04	RUS		FMOP	40	12k	OTHR Contayner
14164,0	2010	06	04	RUS		FMOP	40	12k	OTHR Contayner
14165,0	1622	01	04	CHN			66,67	10k	OTHR 3,8s bursts
14166,0	0820	15	04	CHN			50	10k	OTHR, continious mode
14167,0	1558	01	04	CHN			66,67	10k	OTHR 3,8s bursts
14178,0	1840	06	04	CHN			41,67	10k	OTHR 6,1s bursts
14178,0	2034	15	04	RUS		FMOP	40	12k	OTHR Contayner
14180,0	1620	09	04	RUS		FMOP	40	12k	OTHR Contayner
14189,0	1900	18	04	RUS		FMOP	40	12k	OTHR Contayner
14191,0	1246	28	04	RUS		FMOP	40	12k	OTHR Contayner
14194,0	1518	29	04	CHN			50	10k	OTHR 5,1s bursts
14203,5	1358	30	04			FSK		1k	probably diplomatic FSK
14209,5	0730	24	04					5K	unid
14210,0	2025	25	04					6k	unid
14211,0	0715	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14215,0	1501	29	04	CHN			50	10k	OTHR 5,1s bursts
14232,0	1557	01	04	CHN			66,67	10k	OTHR 3,8s bursts
14235,0	1615	11	04	CHN			41,67	10k	OTHR 6,1s bursts
14235,0	1523	20	04	CHN			66,67	10k	OTHR 3,8s bursts
14241,0	1615	20	04	CHN			41,67	10k	OTHR 6,1s bursts
14243,5	0725	24	04					5K	unid
14256,0	0709	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14258,0	1622	09	04	CHN			41,67	10k	OTHR 6,1s bursts
14260,0	1622	09	04	CHN			41,67	10k	OTHR 6,1s bursts
14264,0	1752	12	04	CHN			41,67	10k	OTHR 6,1s bursts
14284,0	1502	02	04	CHN			50	10k	OTHR 5,1s bursts
14287,0	1632	01	04	CHN			66,67	10k	OTHR 3,8s bursts
14294,0	0709	15	04	CHN			66,67	10k	OTHR 3,8s bursts, long lasting
14298,0	0712	15	04	CHN			66,67	10k	OTHR 3,8s bursts
14310,0	1853	22	04	CHN			41,67	10k	OTHR 6,1s bursts
14314,0	1720	22	04	CHN			41,67	10k	OTHR 6,1s bursts
14324,0	0818	09	04	CHN			66,67	10k	OTHR 3,8s bursts
14326,0	2013	06	04	RUS		FMOP	40	12k	OTHR Contayner
14332,0	1700	20	04	CHN			41,67	10k	OTHR 6,1s bursts
18068,0	1346	01	04	RUS		FMOP	40	12k	OTHR Contayner
18081,4	1550	09	04					6k	unid
18089,0	1126	01	04	RUS		FMOP	40	12k	OTHR Contayner
18107,0	1712	06	04			F1B		200	FSK-Traffic
18123,0	1158	24	04	CHN			66,67	10k	OTHR 3,8s bursts
18148,0	1255	24	04	CHN			41,67	10k	OTHR 6,1s bursts
18155,0	1637	09	04						OTHR
18155,0	1510	19	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
18155,0	1418	29	04	CHN			41,67	10k	OTHR 6,1s bursts

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18159,0	1228	02	04	CHN			50	10k	OTHR 5,1s bursts
18164,0	1732	02	04	RUS		FMOP	40	12k	OTHR Contayner
18165,0	1932	27	04	CYP		FMCW	25	20k	OTHR Pluto Cyprus
18166,0	1420	29	04	CHN			41,67	10k	OTHR 6,1s bursts
18169,0	1426	01	04	RUS		FMOP	40	12k	OTHR Contayner
18171,0	1620	09	04	RUS		FMOP	40	12k	OTHR Contayner
18175,0	1720	29	04	RUS		FMOP	40	12k	OTHR Contayner
18175,0	1320	30	04	CYP		FMCW	25	20k	OTHR Pluto Cyprus
21051,0	1833	25	04	RUS			40	6k	OTHR
21132,0	1745	05	04	RUS		FMOP	40	12k	OTHR Contayner
21172,0	0751	03	04	CHN			66,67	10k	OTHR 3,8s bursts
21176,0	1642	11	04	RUS		FMOP	40	12k	OTHR Contayner
21179,0	1202	24	04	CHN			50	10k	OTHR 5,1s bursts
21181,0	1136	02	04	CHN			50	10k	OTHR 5,1s bursts
21182,0	0817	09	04	CHN			66,67	10k	OTHR 3,8s bursts
21190,0	1242	01	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21190,0	1825	27	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21193,0	0945	09	04	RUS		FMOP	40	12k	OTHR Contayner
21265,0	1006	24	04	RUS		FMOP	40	12k	OTHR Contayner
21300,0	1430	15	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21314,0	1015	17	04	CHN			50	10k	OTHR 5,1s bursts
21314,0	1015	17	04	CHN			66,67	10k	OTHR 3,8s bursts
21324,0	1152	02	04	CHN			41,67	10k	OTHR 6,1s bursts
21325,0	0714	09	04	CHN			66,67	10k	OTHR 3,8s bursts
21330,0	0952	24	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21333,0	0750	03	04	CHN			66,67	10k	OTHR 3,8s bursts
21350,0	0846	09	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21355,0	1522	07	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21370,0	1818	25	04	RUS		FMOP	40	12k	OTHR Contayner
21390,0	1622	01	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21390,0	1816	25	04	RUS			40	6k	OTHR
21395,0	1640	06	04	CYP		FMCW		20k	OTHR Pluto Cyprus
21405,0	0902	09	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21413,0	1030	17	04	RUS		FMOP	40	6k	OTHR
21414,0	1827	27	04	RUS		FMOP	40	12k	OTHR Contayner
21425,0	1230	01	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21425,0	1238	17	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21435,0	1300	02	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21450,0	0924	09	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
28300,0	1412	23	04	IRN				70k	Iranian OTHR
28340,0	0655	10	04	IRN			300/62 5	46k	Iranian OTHR
28365,0	0950	07	04	CYP		FMCW	50	20k	OTHR Pluto Cyprus
28403,0	0648	10	04	IRN			150/31 3	46k	Iranian OTHR
28740,0	vt	vd	04	IRN			307/87 0	46k	Iranian OTHR

DARC; Daniel, DL3RTL. Credit to monitors: DL8LAQ, Norbert. F4FPR, Benjamin. DL4HG, Olaf. DL2SCH, Juergen. DG2MB, Martin. DA1YS, Ronald. DF5JL, Tom. DF2KS, Sven. DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28860,0	vt	vd	04	IRN			150/31 3	46k	Iranian OTHR
29300,0	0652	10	04	IRN			150/31 3	46k	Iranian OTHR

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3660	2030	29	4	RUS/ UKR		LSB			Russian and Ukrainian propaganda. Trading of insults. Playing of patriotic music. "The Internationale". Very loud, persistent. Stops at 2215z.
7050	1740	25	4	RUS/ UKR		LSB			Russian-Ukrainian radio war. Nearly daily, persistent and loud.
7055	1745	25	4	RUS/ UKR		LSB			Russian-Ukrainian radio war. Daily, loud and persistent. "Russenschwein"
7060	1905	5	4	RUS/ UKR		LSB			Russian-Ukrainian radio war. Shouting of slogans. "Slava Ukraina" "Russki pederatski". "Smert rosiyskym okupantam!" Loud.
7110	1725	30	4	ETH		AM			Radio Ethiopia. Weak signal. Daily.
7113	2045	13	4			RADAR			Radar from 7113 to 7130 kHz. Strong and persistent.
7153	1735	25	4			Data			Link-11 Clew. Strong and persistent.
7200	1400	24	4	BRM		AM			Radio Myanmar. Medium signal strength. Heard until sign off at 1458z.
14000	1440	15	4	CHN		AM			China Radio International. Mixing product. Heard nearly daily until 1558z with a weak to medium signal.
14137	1445	25	4	RUS/ UKR		USB			Anti- Russian propaganda. Very strong and distorted signal. Moving around following Russian Ham QSOs to do DQRM. Also on 14149, 14155,14167 kHz.
14142	1220	17	4	RUS/ UKR		USB			Ukrainian propaganda transmission in English. Comparing of Russia to Nazi Germany. Huge signal.
14252	1435	22	4			F1B			Medium and persistent signal.
18132	920	18	4	Britis h Cypr us		RADAR			Radar from 18132 to 18165 kHz. Huge and persistent. "Pluto".
18135	1450	19	4	Brit. Cypr us		RADAR			Radar from 18135 to 18166 kHz. Huge and persistent. Still on at 1550z. "Pluto"
18143	1100	7	4	Brit. Cypr us		RADAR			Radar from 18143 to 18178 kHz. Huge and persistent."Pluto"
18153	1140	14	4	Brit. Cypr us		RADAR			Radar from 18153 to 18175 kHz. Very strong and persistent. "Pluto"
21000	1520	27	4	E or MM		USB			Spanish fishermen. Weak signals.

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21285	1450	15	4	Brit. Cyprus		RADAR			Radar from 21285 to 21310 kHz. Huge persistent signals. "Pluto" Jumping to 21385- 21410 kHz at 1455z.
21340	1545	18	4	Brit. Cyprus		RADAR			Radar from 21340 to 21360 kHz. Strong and persistent. "Pluto"
21357	1430	22	4	Brit. Cyprus		RADAR			Radar from 21357 to 21380 kHz. Huge and persistent. "Pluto"
21384	1405	25	4	Brit. Cyprus		RADAR			Radar from 21384 to 21414 kHz. Strong and persistent. "Pluto"
21409	1350	18	4	Brit. Cyprus		RADAR			Radar from 21409 to 21419 kHz. Intermittent medium strength signal.
21438	1400	16	4	RUS/UKR		CW			RUS navy Sevastopol. Medium strength signals. Often heard.
24900	1040	24	4	IRN		RADAR			Radar moving up and down the band. AM mode. Very strong signals. Still audible at 1500z. Also heard on the 29th at 1555z
24975	1410	7	4			RADAR			Radar from 24975 to 24990 kHz. Medium strength, persistent.
28000	950	15	4	IRN		RADAR			Radar from 28000 to 29000 kHz. AM mode. Moving slowly up and down the band. Huge persistent signals. Also heard on 27th at 1030z. 28710 to 28810 kHz at 1120z with a weak signal.
28498.5	1215	5	4			F1B			Medium signal. Also heard 18th at 1340z. Persistent on both days.
29656	1445	15	4			RADAR			Radar from 29656 to 29683 kHz. Huge signals, very strange sound.

OeVSV; Christoph, OE1VMC

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18160.0	0815	03	04			RADAR		10K0E	QTF 60
21438.0	0851	03	04	RUS		A1A			Russian QTCs
7194.0	2105	03	04			RADAR	40	12K0E	DIR East
28740.0	0958	05	04			RADAR	150	45K0E	DIR West
28860.0	1011	05	04			RADAR		46K0E	
18167.0	1210	05	04			RADAR		12K0E	
21410.0	1413	05	04			RADAR		12K0E	
3527.0	2233	08	04			XXX		200	maybe "CIS-36-50", aka "BEE-36" and "T-600"
28400.0	1610	09	04			RADAR		50K0E	QTF 60, Russia, Ukraine? signal drifting
28400.0	0648	10	04	RUS		RADAR		50K0E	
24970.0	0650	10	04	G		RADAR		20K0E	
21438.0	0933	10	04	RUS		A1A			QTCs from Russia
21438.0	1216	11	04	RUS		A1A			Russian QTCs
7055.0	1530	11	04			J3E-L		2500	continuous audio loop, stopped 15:55 UTC
28320.0	1730	16	04			A3E			Pirates from SA
28150.0	1147	17	04	G		RADAR		300	
28450.0	1542	18	04	G		RADAR		30K0E	

OeVSV; Christoph, OE1VMC

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28850.0	0705	23	04	IRN		RADAR		57K4E	
21290.0	0914	23	04			XXX		8K0E	DIR UA
28010.0	1642	24	04	IRN		RADAR		30K0E	

PZK (SP3AMO, SP5GNI)

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
5362.0	1445	22	04			PSK		2K9	CIS-12 S9
7004.0	1830	20	04			UI		5k0E	599 +30 dB
7011.0	1716	2	04			UI		5k0E	
7011.0	1911	19	04			UI		1k0E	
7013.0	1820	09	04			UI		4K0E	S9+40dB! digital transmission in 2 sec. packets
7014.0	1020	10	04			UI		1k0E	
7015.0	1630	09	04			UI		8K0E	S9+20dB digital transmission in 2 sec. Packets vd vt
7018.0	1913	19	04			UI		2k0E	
7020.0	1831	3	04			UI		2k0E	
7022.0	1915	19	04			UI		8k0E	
7026.0	1430	21	04			PSK		2K9	CIS-12 S9 vd vt
7029.0	1723	21	04			UI		8k0E	599 + 30 dB
7025.5	0516	7	04			PSK	120	2k70E	
7026.5	0720	14	04			UI		8K0E	Radar or jammer?
7047.0	1028	16	04			UI		3K0E	S8 digital transmission in 2 sec. packets
7045.5	2030	09	04			UI		4K0E	S9+30dB! digital transmission in 2 sec. packets
7058.0	1430	21	04			PSK		2K9	S9+ CIS?
7059.0	2045	7	04			PSK	120	2k70E	
7065.0	2005	9	04			PSK	120	2k70E	
7066.0	2110	13	04			NON			
7065.5	0855	08	04			PSK		2K9	CIS-12 S5 vd vt
7080.0	1849	20	04			F1B		200H	
7088.0	0510	10	04			F1B		200H	
7113.0	0825	11	04			PSK		3K0E	S9 CIS?
7114.0	1914	3	04			F1B		200H	
7115.0	2033	4	04			RADAR	40	12k0E	
10107.0	1753	21	04			UI		1k0E	
10116.0	0405	13	04			UI		8k0E	
14000.0	1400	09	04			A3E		6K0	News in English
14006.2	1400	09	04			UI		8K0E	S9+20dB digital transmission in 2 sec. packets
14008.0	1124	3	04			F1B		200H	Vd vt
14014.0	1405	21	04			PSK		3K0E	S9 CIS
14014.0	1535	29	04			RADAR		10K0E	S7 bursts
14016.0	0832	12	04			RADAR		8K0E	S8 0835 end
14030.0	1026	5	04			UI		1k0E	
14030.0	1525	9	04			PSK		8k0E	
14035.0	1540	5	04			UI		8k0E	

PZK (SP3AMO, SP5GNI)									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14048.0	1105	09	04			RADAR		10K0E	S9
14059.0	0810	19	04			UI		8k0E	RSQ 595
14075.4	1610	27	04			UI		8K0E	S9+20dB digital transmission in 3 sec. packets
14092.0	1209	3	04			UI		8k0E	
14092.0	1443	5	04			RADAR	40	12k0E	
14095.0	1204	3	04			UI		2k0E	
14098.0	1015	10	04			UI		8k0E	
14102.0	1543	5	04			RADAR	66	10k0E	Bursts
14109.0	1902	6	04			RADAR	40	10k0E	Bursts
14110.5	1537	29	04			UI		1K6E	S6 6 or 16 spectral lines
14115.0	1715	21	04			RADAR	40	12k0E	RSQ 595, 17.17 UTC QRT
14116.0	0856	12	04			RADAR		8K0E	S8 burst also 14164.0
14136.0	1617	21	04			RADAR		12K0E	16:19 off
14137.0	1744	21	04			RADAR	40	12k0E	17.50 UTC QRT
14140.0	1100	08	04			RADAR		10K0E	S9 Burst
14158.0	1413	21	04			RADAR		10K0E	S8 together with 14188.0
14160.0	1400	12	04			RADAR		10K0E	S8 burst
14162.0	0920	1	04			PSK	120	2k70E	
14175.0	1647	01	04			RADAR		12K0E	S9 Burst
14183.0	1910	05	04			RADAR		14K0E	S7
14187.0	0850	06	04			RADAR		10K0E	S8 Burst vd vt
14220.0	0830	12	04			PSK		2K9	CIS-12 S6
14221.0	0557	2	04			F1B		200H	Vd vt
14221.0	0633	14	04			RADAR	40	12k0E	RST 599
14232.0	1648	01	04			RADAR		10K0E	S6 Burst also 14287.0
14237.5	1202	3	04			UI		1k50E	
14245.0	0804	13	04			UI		8k0E	
14253.0	0821	11	04			F1B		250	S9 also 18.04 at 8:53
14255.3	0818	11	04			F1B		250	S9
14273.0	0855	06	04			RADAR		>100K0E	S5-7 very wide
14295.0	1420	21	04			RADAR		10K0E	S7 bursts
14326.0	0726	13	04			RADAR		8K0E	S8 burst also 14164.0
14342.0	0810	6	04			RADAR	80/40	10k0E	Bursts
18070.0	0530	19	04			RADAR	50	20k0E	RST 599
18080.0	0745	08	04	CHN	BC	A3E		12K0E	S7 Chinese vd vt
18107.0	1702	2	04			F1B		200H	
18107.0	1121	3	04			F1B		200H	Vd vt
18134.0	1244	17	04			RADAR	66	10k0E	Bursts
18153.0	0855	18	04	G		RADAR		10K0E	S7 vd vt
18157.0	0910	06	04			RADAR		10K0E	S7
18161.0	1128	6	04			RADAR	40	12k0E	
18170.0	0800	09	04			RADAR		10K0E	S6 partially in the band vd vt
18171.0	0806	6	04			RADAR	40	12k0E	
21110.0	0915	06	04			RADAR		20K0E	S9+15dB continous
21115.0	0825	20	04			RADAR		20K0E	S9+20dB continous vd vt
21200.0	1124	6	04			RADAR	66	10k0E	Bursts

PZK (SP3AMO, SP5GNI)

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21287.0	1032	10	04			RADAR	50	10k0E	Bursts
21300.0	1630	01	04	G		RADAR		20K0E	S9+20dB vd vt
21314.0	1013	17	04			RADAR		10K0E	S7 Bursts
21326.0	0815	11	04			RADAR		10K0E	S7 Bursts also 21372.0
21350.0	0823	10	04			RADAR	50	20k0E	Vd vt
21374.0	1130	22	04			RADAR		10K0E	S7 bursts
21377.0	0840	06	04			RADAR		10K0E	S7 Bursts
21400.0	1122	6	04			RADAR	50	20k0E	Vd vt
21413.0	1023	17	04			RADAR		8K0E	S7
28035.0	0755	09	04	IRN		RADAR		60K0E	
28110.0	0545	25	04			RADAR	150/300	46k0E	
28255.0	0810	20	04			UI		8K0E	Voice - too short to indentify FM or AM, also seen at 28225.0
28735.0	0845	06	04	IRN		RADAR		100K0E	S9
28740.0	1605	5	04			RADAR	150/300	46k0E	Vd vt
28750.0	0845	08	04	IRN		RADAR		60k0e	S5-7 very wide
28810.0	1115	08	04			RADAR		40K0	S6 not IRN
28860.0	0750	08	04	IRN		RADAR		60K0E	S7 vd vt
29180.0	0758	09	04	IRN		RADAR		100K0E	s9
29203.0	0548	25	04			RADAR	20	20k0E	
29370.0	1025	17	04	IRN		RADAR		60K0E	S6

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14010	1705	3	4					20kHz	Scrambled voice transmission S9+20dB
21003	0805	4	4			USB			Unident langage (Arabic?) intrudeur network ? S4-7
21003	0747	5	4			USB			Unident langage (Arabic?) intrudeur network ? S4-7
18160	0750	5	4			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9+10db
14090	0758	5	4			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9+10db intermittent.
21395	1615	6	4			fmcw	40	20kHz	OTH Radar pulsed 20ms, S9.
3670	0817	12	4			data		3kHz	Data ? Frequency hopping S9
3680	0817	12	4			data		3kHz	Data ? Frequency hopping S9
3690	0817	12	4			data		3kHz	Data ? Frequency hopping S9
3700	0817	12	4			data		3kHz	Data ? Frequency hopping S9
14118	1616		4			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9+10 intermittent.
14135	1639	16	4			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9+10
28100	1710	19	4			fmcw	25	50kHz	OTH Radar pulsed at different rates, S9+10
28410	0803	27	4			fmcw	25	40kHz	OTH Radar pulsed at different rates, S9

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	1834	20	04			J3E		2K70E	USB 'The Air Horn'. Daily. Also heard 281928z

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3756.0	1834	20	04			J3E		1K70E	USB 'The Pip'. Daily. Also heard 281928z.
6999.0	2131	21	04	RUS		P0N	40	12K0E	Container pulse radar
7004.4	1820	20	04					5K00E	Unidentified bursts
7009.0	1653	28	04					3K00E	Unidentified
7012.0	2009	27	04					14K0E	Unidentified
7018.0	0750	04	04			J7D		2K70E	USB 7016.0 / CIS-12
7021.0	0741	21	04			J7D		2K70E	USB 7019.0 / CIS-12
7026.0	0728	07	04			J7D		2K70E	USB 7024.0 / CIS-12. Also heard 151711z, 170607z, 182140z, 201816z, 211921z, 231538z, 271948z, 281647z, 291913z
7036.0	0755	04	04					4K00E	Unidentified
7058.0	2208	01	04	RUS		P0N	40	12K0E	Container pulse radar
7080.0	1822	20	04			F1B		200	FSK. Also heard 272022z, 291929z
7087.0	2132	21	04	RUS		P0N	40	12K0E	Container pulse radar
7110.0	1702	01	04	ETH	R. Ethiopia	A3E			BC. Also heard 281650z
7111.0	2133	21	04	RUS		P0N	40	12K0E	Container pulse radar
7124.0	2209	01	04	RUS		P0N	40	12K0E	Container pulse radar
7137.0	1705	01	04			F1B		200	FSK. Also heard 182149z, 201823z
7140.02	1704	01	04	ERI	VoBM	A3E			BC
7196.126	0810	07	04			NON			Plain carrier
14008.0	0842	06	04			F1B		250	FSK. Also heard 080757z, 280808z
14014.0	0753	21	04			J7D		2K70E	USB 14012.0 / CIS-12
14027.0	1441	21	04					8K00E	Unidentified
14028.0	0722	28	04					8K00E	Unidentified
14030.0	1719	28	04					8K00E	Unidentified
14136.0	1922	29	04	RUS		P0N	40	12K0E	Container pulse radar
14158.0	0823	30	04	RUS		P0N	40	12K0E	Container pulse radar
14163.0	2144	18	04	RUS		P0N	40	12K0E	Container pulse radar
14184.0	0825	30	04	RUS		P0N	40	12K0E	Container pulse radar
14187.0	1033	25	04	RUS		P0N	40	12K0E	Container pulse radar
14189.0	2146	18	04	RUS		P0N	40	12K0E	Container pulse radar. Also heard 280725z.
14207.0	2006	27	04	RUS		P0N	40	12K0E	Container pulse radar
14253.0	0734	04	04			F1B		250	FSK. Also heard 250736z.
14272.0	1520	23	04	CHN		F3N	66.7	10K0E	FMCW radar bursts
14298.5	0806	07	04					1K20E	Unidentified bursts. Also heard 200805z
18070.0	0751	21	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18073.0	0739	07	04	CHN		F3N	66.7	10K0E	FMCW radar bursts
18100.0	0804	07	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18107.0	0712	06	04	RUS		F1B		200	FSK. Also heard 070759z, 090733z, 120724z, 150946z, 180908z, 190822z, 201850z, 231525z, 250744z, 260740z, 272000z
18153.0	0821	18	04	RUS		P0N	40	12K0E	Container pulse radar
18163.0	1259	18	04	RUS		P0N	40	12K0E	Container pulse radar
18169.0	0800	09	04	RUS		P0N	40	12K0E	Container pulse radar
18175.0	0731	09	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18175.0	1945	27	04	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21116.0	0722	12	04	RUS		P0N	40	12K0E	Container pulse radar
21161.0	0921	19	04	RUS		P0N	40	12K0E	Container pulse radar
21177.0	1523	23	04	RUS		P0N	40	12K0E	Container pulse radar
21210.0	1258	18	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21284.0	0751	12	04	CHN		F3N	50	10K0E	FMCW radar bursts
21291.0	0721	21	04	CHN		F3N	66.7	10K0E	FMCW radar bursts
21310.0	0830	26	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21325.0	1035	18	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21334.0	0726	21	04	CHN		F3N	66.7	10K0E	FMCW radar bursts
21400.0	1143	06	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21438.0	0836	06	04	RUS	RCV	A1A			Morse. Also heard 070836z, 150937z, 180835z, 190842z, 231531z, 260832z
21450.0	0930	09	04	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus

RSK; Kamweti, 5Z4BV

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3696	1013	vd	4			FMOP		3K0E	OTHR
3717	1412	29	4			J3E-U		2K5E	Sino-vernacular QSO
5365	1610	18	4			FMOP		30K0E	Jammer?
7000	vt	vd	4			PSK		2K5E	STANAG 4285
7070	vt	12	4			J3E-U		2K5E	Vernacular/Kiswahili QSO
7085	1415	29	4			J3E-L		2K5E	Unintelligible cacophonous chanting
7110	vt	dly	4	ETH		A3E		22kE	Radio Ethiopia National Service
7140	vt	vd	4	ERI		A3E		10kE	Radio Eritrea Voice of Broad Masses
7140	vt	vd	4			J3E-U		2K5E	Vernacular/Kiswahili QSO
7150	vt	dly	4	KEN		MFSK	128	2k2	2G ALE Call transmission
7165	1417	29	4			J3E-U		2K5E	Indo-Asian vernacular QSO
10100	0835	24	4			PSK		2K7E	STANAG 4285
10127	1421	29	4			J3E-U		2K5E	Vernacular QSO
10138	1554	15	4			PSK		2K7E	STANAG 4285
14140	1550	15	4			FMOP	5 sps	10K0E	Kontayner
14340	1019	1	4			J3E-U		2K5E	Unid. voice QSO
18152	1428	1	4			CW		50	Intermittent long on-off keying
21175	vt	1	4	CHN		FMOP		10K0E	Foghorn' bursts OTHR
24845	1038	1	4			fMOP		10K0E	Variety of pulses
28300	1024	1	4					60K0E	Broad cellular-like digital signal

SARL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz			4	RUS		RADAR	40sps	13k0E	(WebSDR 28d, 1900-0315)
7 MHz	0730-1800	*	4	RUS		RADAR	10sps	10k0E	*) Days: 1. 3. 8. 11. 14. 16. 19. 29. 30.
7 MHz	0515-1845	*	4	RUS		PSK		8k0E	*) Days: 2. 4. - 12. 17. 19. 21. - 28. mainly 7007 – 7055 kHz
7018.0	0610-1830	*	4	RUS		J7D	120	2k60E	*) Days: 4. 16. 20. 30.
7020.0	0615-	03	4	RUS		F1B		250	

SARL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	1045								
7022.0	0530-1200	*	4	RUS		J7D	120	2k60E	*) Days: 2. 4. 21.
7026.0	0000-2400	*	4	RUS		J7D	120	2k60E	*) Days: 5. - 30.
7030.0	0745-1345	02 04	4	RUS		F1B		250	
7031.0	0430-1600/	*	4	RUS		J3E-u		3k0E	*) Days: 16. -20. brum, fem vox
7033.0	0740-1005	04	4	RUS	CWLW	A1A		20	Z- & Q- codes
7048.0	0500-1405	*	4	RUS		A1A	20 wpm	1k0E	*) Days: 15. 18. - 22. 25. -29., 5BL, key failure c. 40 Hz
7054.0	1710-1800	11 26	4	RUS		F1B		200H	
7057.0	1400-1407/	16	4	RUS		J7D	120	2k60E	
7057.5	0515-1600	*	4	RUS	XWRJ etc	A1A	18 wpm	40H	*) Days: 1. - 30. 5BL, 5F
7065.5	0515-1755/	*	4	RUS		J7D	120	2k60E	*) Days: 2. - 9. 12.
7068.0	1425-1815/	28	4	RUS		J7D	120	2k60E	
7110.0	1600-1810/	01 - 31	4	ETH	R. Ethiopia	A3E		9k0	
7110.4	1430-1905/	*	4		RSS	A1A	22 wpm	20H	*) Days: 1. - 11. 14. 15. 16. 21. - 29. English news
7115.0	0720-0729/	*	4	RUS	475	R2A-u	17 wpm	2k5E	*) Days: 16. 17. 27. 28. 630 Hz tone, 5BL groups twice
7122.0	1200-1720	12 17	4	RUS		F1B		250H	
7137.0	1715-1830	02 17	4	RUS		F1B		200H	
7140.0	1530-1840/	*	4	ERI	VoBME	A3E		9k0	*) Days: 1. 3. - 6. 8. - 12. 15. 16. 25. - 27. 28. +20Hz offset
7147.5	0600-1920/	*	4	RUS		F1B		200H	*) Days: 15. 16. 17.
7159.0	0910-1245	6	4			G7D		3k00E	
7162.0	0800-1515/	*	4	RUS		F1B		250H	*) Days: 2. 4. 7. 14. 16. 19.
7166.0	1100	17	4	RUS		A1A	25 wpm	40H	5F
7168.0	0730-0740	28	4	RUS	SRXR	J3E-u		3k3E	Subcarrier +3.36 kHz
7172.0	0500-0830	15	4	RUS	RYR2	A1A		40H	Calls RFH63
7196.0	0430-1700	*	4	RUS		F1B/ NON		250H	*) Days: 1. 7. 9. 14. 17. 18. 21. 22. 25. 26. 30.
7200.0	1200-1500/	01 - 30	4	TWN		A3E		9k0	National Unity Radio
10 MHz			4	G		RADAR	50sps	20k0	(WebSDR 3d)
10 MHz	0715	29	4	RUS		RADAR	40sps	13k0E	(WebSDR 11d)
14 MHz	0430-1830	*	4	RUS		RADAR	40sps	13k0E	*) Days: 4. 5. 11. 12. 14. 15. 20. 21. 22. 25. 26. 28. 29. 30. (WebSDR 18d)
14 MHz	0800-	*	4	RUS		RADAR	10sps	10k0E	*) Days: 1. 2. 4. 5. 12. 17. 19. 22. 23.

SARL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	1500								
14 MHz	0515-1815	*	4	CHN		RADAR	50/67sp s	10k0E	*) Days: 1. 4. 6. 8. 13. 16. 17. 20. 21. 24. 28. 29. 'foghorn'
14000.0	1357-1457/	01 - 30	4	CHN	CRI	A3E		9k0	Tx intermodulation, //13710 & 13855 kHz
14004.0	1045-1055/	20	4	RUS		A1A	20 wpm	40H	5BL
14005.0	0525-0530	28	4	RUS		J7D	120	2k60E	
14008.0	0800-1733/	*	4	RUS		F1B		250H	*) Days: 6. 8. 17. 20. 24. 26.
14014.0	0625-1800	*	4	RUS		J7D	120	2k60E	*) Days: 20. 21. 22.
14221.0	0430-0600/	01 - 30	4	KAZ		F1B		200H	
14253.0	0600-1545	*	4	RUS		F1B		250H	*) Days: 1. 4. 8. 11. 18. 22. 26. (ERP > 400 W)
18 MHz	0430-1540	*	4	G		RADAR	25/50sp s	20k0	*) Days: 4. 5. 9. 19. 20. 25. 26. 30. (WebSDR 2d)
18 MHz	0645-1500	*	4	RUS		RADAR	40sps	13k0E	*) days: 1. 5. 18. 20. 22. (WebSDR 17d)
21 MHz	0600-1715	*	4	G		RADAR	25/50sp s	20k0	*) Days: 1. 2. 5. 6. 7. 9. 10. 11. 13. 15. 18. 20 21. 23 – 27. (WebSDR 18d)
21 MHz	0530-1730	*	4	RUS		RADAR	40sps	13k0E	*) Days: 5. 12. 17. 19. 20. 22. 25. 27. (WebSDR 9d)
21 MHz	0535-1155	*	4	CHN		RADAR	50/67sp s	10k0E	*) Days: 2. 4. 5. 8. 11. 12. 14. 17. - 20. 23. 25. 26. 27. 28. 'foghorn'
21438.0	/0830-1600	01 - 31	4	RUS	RCV	A1A	20 wpm	40H	
28 MHz	0545-1730	*	4	IRN		RADAR	150/ 313	60k0E	*) Days: 6. - 10. 12. 17. - 20. 22. 24. - 27. 30. alternating fq (WebSDR 6d)
28 MHz	0615-1730	*	4	IRN		RADAR	310/ 870	120k0E	*) 5. - 8. 17. 22. 26. 27 8woebSDR 5d)
28860.0	0445-1630	*	4	IRN		RADAR	150/ 313	60k0E	*) Days: 1. 2. 4. - 12. 17. - 27. 30. (WebSDR 16d)
28 MHz	0730-1100	*	4	RUS	Taxi disp.	F3E		3k0E	*) Days: 5. 18. 20. 27. 22 reports

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999.0	2212	20	04			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 40m band
7001.8	2221	29	04			G1D PSK8		2k40E	1800Hz single tone mode PSK8 (Stanag 4285 or other MIL188-xxx
7008.0	0824	23	04			J7D	12x120 Bd	2k70E	CIS12 with additional carrier at 7006 kHz. Distorted signal, mostly idling only
7014.2	1551	04	04			XXX		ca 8k0E	unid signal, slow dashes
7014.2	1535	10	04			XXX		ca 1k20E	unid signal
7015.0	1645	21	04			XXX		ca 8k0E	unid signal
7019.0	1406	20	04			F1B	50 Bd	200H	
7021.0	1308	07	04			XXX		ca 650H	Bursts, unid signal (as at 7160)
7022.0	1508	08	04			XXX		ca 10k	unid signal
7023.0	1558	04	04			XXX		ca 8 k0E	unid signal

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7026.0	1451 2126	07 28	04			J7D	12x120 Bd	2k70E	CIS12: long lasting daily
7040.0	1711	22	04			A3E		ca 7k0E	AM emission, voice and music Distorted modulation
7050.0 LSB	0917	12	04			J3E-L		ca. 3k0E	RUS-UKR Radio War often
7053.5	1447	22	04			XXX		ca 2k80E	unid signal, Jammer?
7055.0	1511	10	04			XXX		ca 8 k0E	unid signal
7055.0 LSB	1247	30	04			J3E-L		ca 3k0E	RUS-UKR Radio War almost daily
7058.0	2123	29	04			FMOP	40 sps	12k0E	OTHR; Contayner
7065.5	1654	04	04			J7D	12x120 Bd	2k70E	CIS12 often
7068.0	2131	28	04			J7D	12x120 Bd	2k70E	CIS12
7110.0	1600 1551	05 23	04	ETH		A3E		ca 9k0E	BC: Radio Ethiopia daily
7112.0	1145	20	04			J7D	12x120 Bd	2k70E	CIS12; idling
7140.0	1617	04	04	ERI	VOBM1	A3E		ca 9k0E	BC: Voice of the broad masses 1daily
7151.6	1601	26	04			BPSK	1200	ca 1k30E	CIS signal: T230-1A; strong
7160.0	1312	07	04			XXX		ca 650H	Bursts, unid signal (as at 7021)
7162.0	1157	04	04			F1B	75 Bd	250H	FSK often
7200.0	1456	22	04			A3E		ca 9k0E	BC; probably Taiwan often
14000.0	1407 1444	10 17	04		CRI	A3E			China Radio International. intermodulation from 13855 and 13710 kHz often
14008.0	0501	21	04			F1B	50 Bd	250H	FSK often
14014.0	0745 1508	20	04			J7D	12x120 Bd	2k70E	CIS12; long lasting
14019.9	0929	07	04			XXX		ca 1k0E	Bursts; unknown signal; QRT: 0934z
14025.0	0904	24	04			XXX		ca 8k0E	unknown signal
14027.0	0741	24	04			XXX		ca 8k0E	unknown signal
14028.0	1703	04	04			XXX		ca 16 k0E	unid signal, Jammer?
14059.0	0812	19	04			XXX		ca 8k0E	unknown signal
14098.5	0750	25	04			ARQ	600/ 1200 Bd	600H 1200H	DPRK ARQ system (FSK or PSK)often
14115.0	1635	21	04			FMOP	40 sps	12k0E	OTHR; Contayner
14140.0	0807	05	04			FMOP	40 sps	12k0E	OTHR; Contayner
14142.0	1151	26	04			FMOP	40 sps	12k0E	OTHR; Contayner
14188.0	2125	27	04			FMOP	40 sps	12k0E	OTHR; Contayner
14196.0	0803	05	04			FMOP	40 sps	12k0E	OTHR; Contayner
14207.0	2125	27	04			FMOP	40 sps	12k0E	OTHR; Contayner
14235.0	1535	20	04			FMCW	66.66 sps	10k0E	OTHR; Bursts; strong, up to --60dBm
14253.0	1541 0738	08 25	04			F1B	75 Bd	250H	FSK almost daily
14298.5	0807	20	04			ARQ	600/ 1200 Bd	600H 1200H	DPRK ARQ system often
14338.0	1126	26	04			FMOP	40 sps	12k0E	OTHR; Contayner
14348.0	1158	26	04			FMOP	40 sps	12k0E	OTHR; Contayner
18107.0	1223 1654	03 13	04			F1B	50 Bd	200H	CIS FSK almost daily

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18153.0	0945	18	04			FMOP	40 sps	12k0E	OTHR; Contayner
18161.0	0756	05	04			FMOP	40 sps	12k0E	OTHR; Contayner
18163.0	1006 1307	07 18	04			FMOP	40 sps	12k0E	OTHR; Contayner
21000.0	1556	20	04			J3E-U		2k10E	Unident language often
21099.0	0947	19	04			OTHR	66.66 sps	10k0E	OTHR; Bursts
21115.0	0839	20	04	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21120.0	1516	17	04			FMOP	40 sps	12k0E	OTHR; Contayner
21147.0	0641	19	04			FMOP	40 sps	12k0E	OTHR; Contayner
21160.0	1207	29	04			FMOP	40 sps	12k0E	OTHR; Contayner
21167.0	0834	29	04			OTHR		10k0E	OTHR; Bursts
21184.0	1155	20	04			F1B		200H	FSK
21200.0	0951	06	04			OTHR	66.66 sps	10k0E	OTHR; Bursts, long lasting
21235.0	1008	18	04			OTHR	66.66 sps	10k0E	OTHR; Bursts, long lasting
21287.0	1303	04	04			OTHR	42 sps	10k0E	OTHR; Bursts
21292.0	0838	23	04			XXX		ca 5k2	unident signal, long lasting
21310.0	0828	26	04	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21325.0	1137	20	04	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21350.0	1698	18	04	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21355.0	1524	07	04	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21370.0	1549	20	04	G		FMCW	25 sps	20k0E	OTHR; UK base Cyprus
21378.0	0830	19	04			FMCW	50 sps	10k0E	OTHR; Bursts
21409.0	1552	05	04			FMOP	40 sps	12k0E	OTHR; Contayner
21410.0	1511	20	04	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21434.0	1230	30	04			OTHR	41 sps	10k0E	OTHR; Bursts
21438.0	1049 1201	04 20	04	RUS	RCV	A1A		10H	TDoA: Area of Sevastopol daily
28100.0	1004	06	04			F1B	51 Bd	300H	short bursts: probably ENAGAL buoy ?
28100.1	0948	06	04			F1B	51 Bd	300H	short bursts: probably ENAGAL buoy ?
28101.9	0949	06	04			F1B	51 Bd	300H	short bursts: probably ENAGAL buoy ?
28105.0	2115	27	04			A3E			unid language; radio pirates
28150.0	1207	07	04	IRN		?	307 + 870 sps	ca 45k	OTHR, Bursts; long lasting, sweep rate alternating
28170.0	1429	22	04				12 sps	40k0E	OTHR, long lasting
28175.0	0851	24	04			F3E			most probably Taxi service
28284.5	2109	27	04			A3E			unid language; roger piep; radio pirates.
28499.97	1233 0902	03 07	04			F1B	81.9	140H	probably Datawell Waverider buoy ?
28740.0	0742 1301	05 17	04	IRN		?	307 + 870 sps	ca 45k	OTHR, Bursts; long lasting, sweep rate alternating
28860.0	1240 0947	03 07	04	IRN		?	150 + 313 sps	ca 45k	OTHR, Bursts; long lasting, sweep- rate alternating often

VERON; Ruud, PG1R. Credits to observers Dick PA0GRU, Joeke PA0VDV, Kees PA2CHM, Arie PA3CNK, Rene PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3548.0	1934	15	04	RUS		F1B			Revs/UiPtr

VERON; Ruud, PG1R. Credits to observers Dick PA0GRU, Joeke PA0VDV, Kees PA2CHM, Arie PA3CNK, Rene PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3596.0	1935	29	04	RUS	SPZG	A1A			SPZG QTC 242 65 29 0811 242 = Prip Noworossijsk
3596.0	1946	29	04	RUS	X5HL	A1A			X5HL QTC 753 126 29 1540 753 = Prognoz Pogody S 1800
3596.0	1915	30	04	RUS	OOQW	A1A			OOQW QTC 126 65 24 0910 126 = Prip Taganrog
7001.0	1901	22	04			J3E-L			Male voice; unknown language
7011.2	1243	26	04			A1A	1		Long lasting; repetitive pulses of 1 sec length.
7024.0	1254	04	04			A1A			Long lasting; repetitive dashes with some short breaks.
7026.0	1322	17	04	RUS		J7D		2K70E	CIS-12 PSK
7026.0	1835	19	04	RUS		J7D			CIS-12 PSK
7060.0	1921	09	04	UKR/ RUS		J3E-L			Music & slogans; UKR-RUS radiowar.
7080.0	2017	27	04	RUS		F1B		200H	
14008.0	1205	06	04	RUS		F1B		250H	UiPtr
14008.0	1000	28	04	RUS		F1B			Carrier/Revs/UiPtr
14013.0	0755	21	04	RUS		J7D		2K70E	CIS-12
14027.0	1438	21	04			XXX		8K0E	Unknown signal; bursts; jamming?
14190.0	0917	29	04	CHN		RADAR	42	10K0E	OTHR
18107.0	1012	09	04	RUS	RDL	F1B		200H	Printer
18107.0	0945	15	04	RUS		F1A			UUU XXX followed by F1B Revs/Ptr
18107.0	1119	30	04	RUS		F1B		200H	UiPtr
21090.0	0930	10	04	CHN		RADAR	42	10K0E	OTHR; bursts; strong signal s8-9.
21438.0	1016	13	04	RUS	RCV	A1A			RIPO90 de RCV QTC 415 58 27 1339 415 = NAWIP 032 258 KARTY 32221
28467.5	1025	13	04	RUS		F1B			UiPtr/Revs

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