



Monitoring System

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The monthly newsletter for Region 1

February 2013

The 24 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++
++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI5DD - Steve ++ KARS: 9K2RR – Faisal ++
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++
++ OEVS: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ UBA: ON4VJ - Johny ++
++ URE: EA5DY - Salvador ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++
++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++
++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++
++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ SK6AW – DX-Cluster ++

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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Part 1: News and Infos

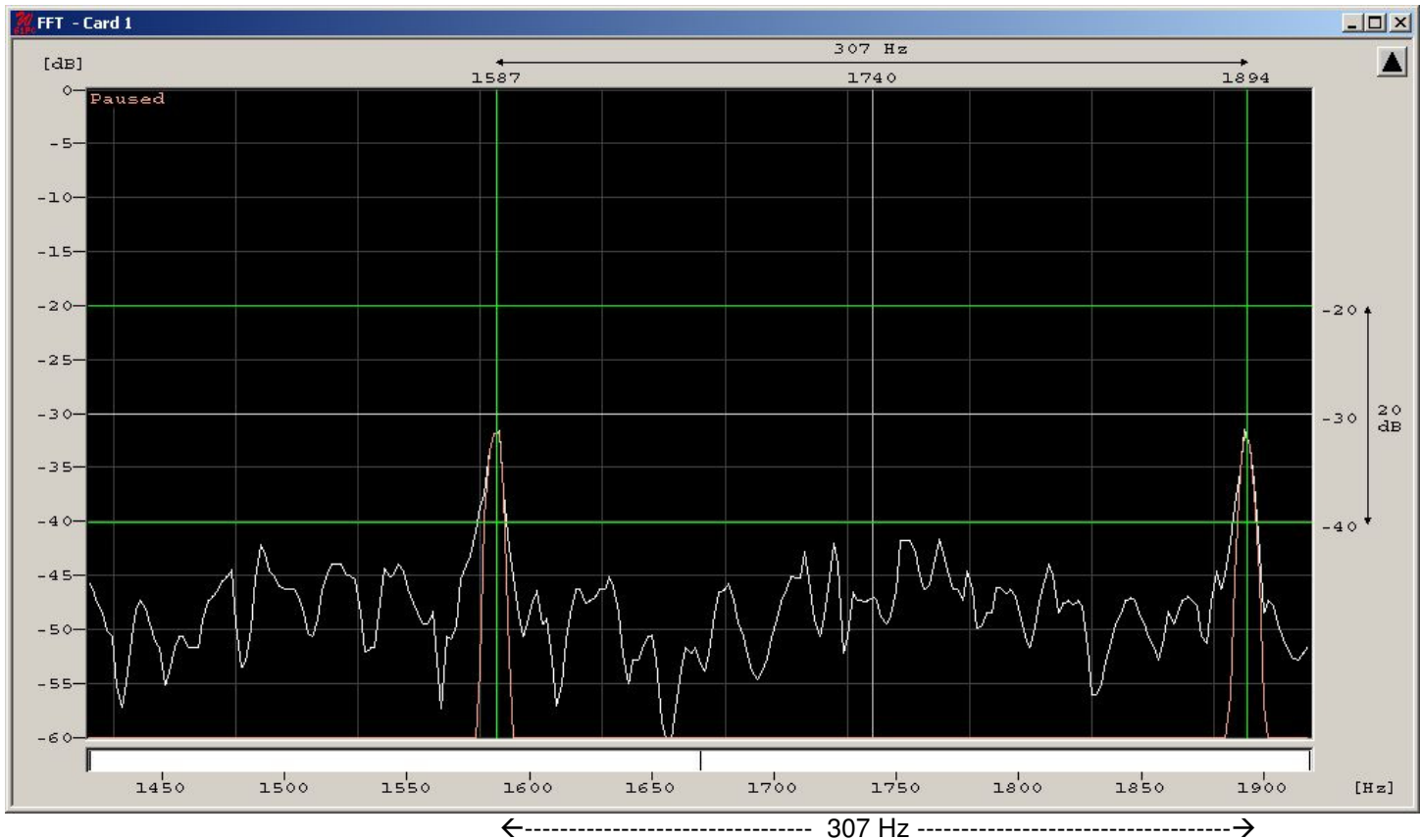
1. OTH Radar from Iran on 28000 – 29700 kHz - daily

We got many complaints about mysterious tones on 10 m. These tones were caused by the Iran OTH Radar. The system often transmitted bursts on one frequency, but the jumping bursts were affecting the whole 10m-band. The German, Dutch, Austrian and Swiss PTTs were informed.

Screenshot: DK2OM with W-Code (Wavecom)

Iran OTH Radar with 307 sps. Sweep rate measured by using the FFT-display (spectrogram). Below: Measurement of 307 sweeps/sec -> 307 Hz on the FFT-display

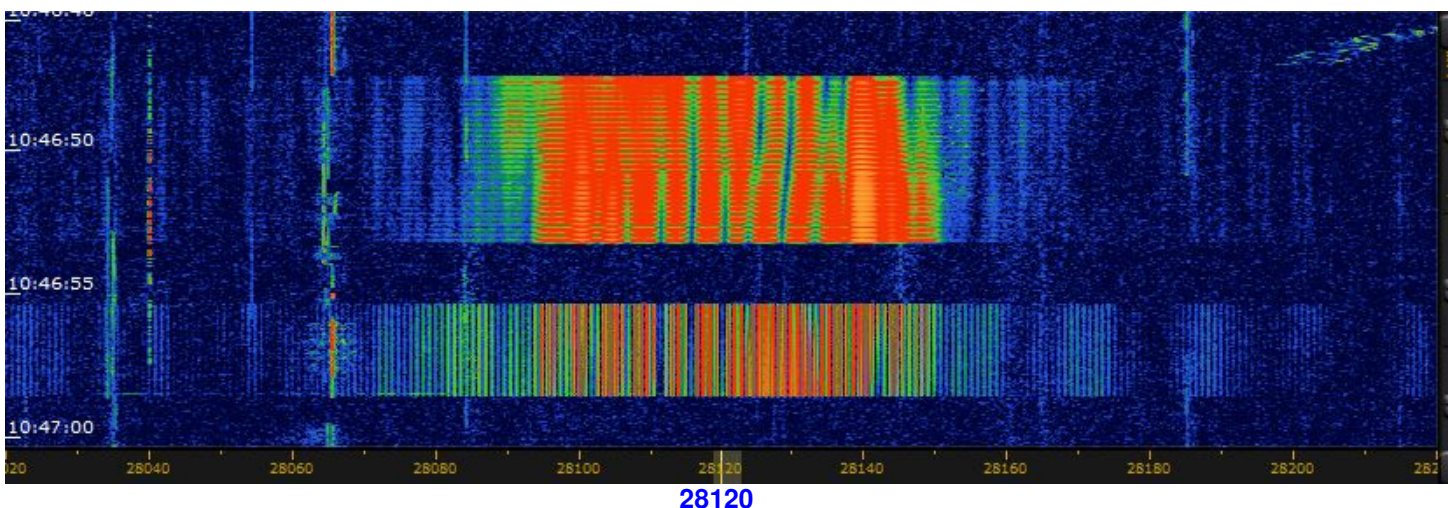
Soundfile: <http://www.iarums-r1.org/iarums/sound/29000-iran.wav> (DK2OM recording)



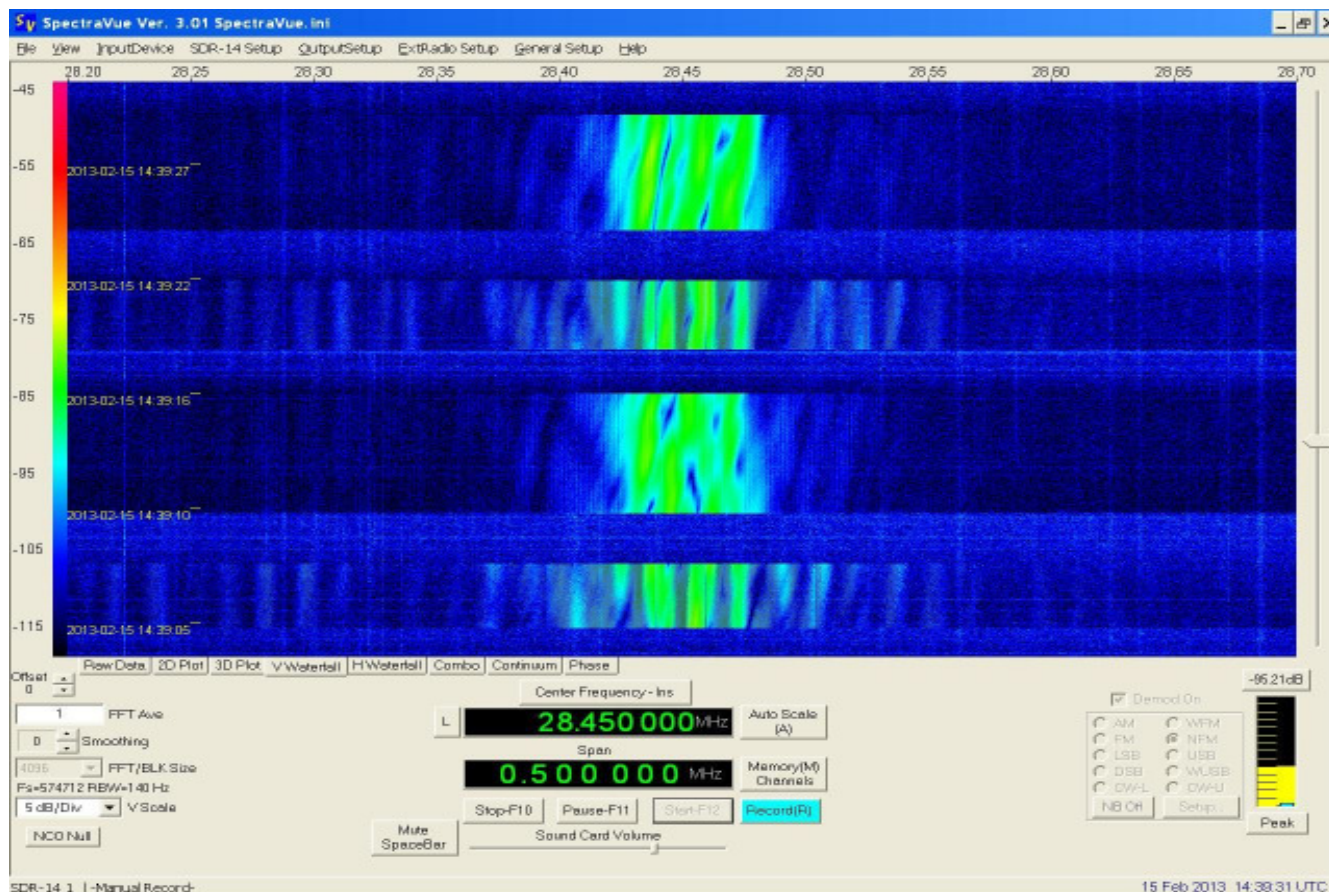
The Iran radar produced splatters, which covered 500 kHz and more. Below you can see 2 bursts, 307 and 870 sweeps/sec on 28120 kHz. Digital HAM-traffic was impossible. Even the CIS taxis disappeared. When the radar faded out, they were back few minutes later.

Screenshot: DK2OM with Perseus – 28120 centered – bursts with 307 and 870 sps

soundfile: <http://www.iarums-r1.org/iarums/sound/29000-iran.wav>



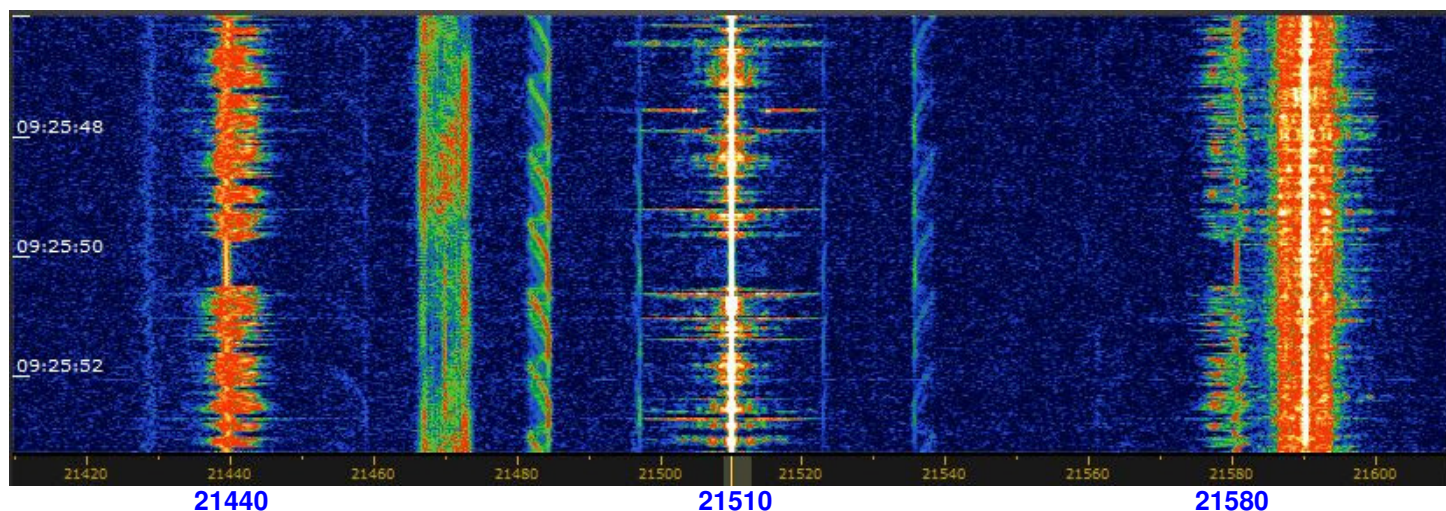
OE3GSA analysed the radar by Spectravue on 28450 kHz:



2. Radio Tehran with spurious emissions on 21440 kHz

Radio Tehran on 21510 kHz was producing spurious emissions on 21440, 21370 (70 kHz increments) daily at 0830 - 0930 utc. The emissions were also audible on 21580 kHz (as expected). The German, Dutch, Austrian and Swiss PTTs were informed. The spurious emissions on 21445 (from 21500) were still audible in February.

Screenshot: DK2OM with Perseus on Feb. 15th at 0925 utc



3. 160 m threatened by CIS pirates in AM

I found several CIS pirates in A3E (AM) between 1800 and 1810 kHz. Of course I was not surprised to find them inside our band few days later. The carriers were unstable and the modulation weak, same as on 3500 – 3600 kHz. Please observe my list below!

4. Homepage IARU Region 1 <http://www.iau-r1.org/>
Homepage IARUMS Region 1 <http://www.iarums-r1.org>
Homepage IARUMS Region 2 <http://www.iau-r2.org/>
Homepage IARUMS Region 3 <http://www.iau-r3.org/ms/>
Intruderlogger Region 1 <http://peditio.net/intruder/bluechat.cgi>

Part 2: Detailed reports of the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** BD = Baud *** SH = shift *** SP = spacing *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** OFDM = othogonal frequency division multiplex ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** Ui (unid) = unidentified *** Illicit = illegal *** UiILL = unidentified illegal *** BC = broadcast *** MIL = military *** PTR = printer *** NGO = non governmental organization *** ITU = ITU country abbreviation *** PRC = People's Republic of China *** PLA = People's Liberation Army *** MFA = Ministry of Foreign Affairs *** MOI = Ministry of Interior *** MOPO = Ministry of Public Order *** IARUMS = IARU Monitoring System *** UTC = Universal Time Coordinated *** pps = pulses per second (earlier radar systems) *** sps = sweeps/sec (radar systems) *** FMCW = frequency modulated continuous wave (OTH and coastal Radars) 5BL = 5 cyrillic lettergroups

ARSK MONITORING OVERVIEW FOR FEBRUARY 2013

There was nothing of interest locally this month except the usual broadcasts from Radio Hargeisha on 7120 kHz, Khartoum on 7200 kHz, Addis Ababa and Asmara (Eritrea) on other 40 meter frequencies between 7100 and 7200 kHz. Accordingly there is no attached sheet with detail. Monitoring at the coast for two weeks was unproductive.

E.H.M. Alleyne, 5Z4NU
ARSK National IARUMS Co-ordinator

ARSK – Kenya – 5Z4NU (Ted) ---

not available

DARC 1 – Germany – DJ9KR (Uli) Illicit and broadcast intruders

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	3500,0	1844	25	02	N.Eu	UiILL	J3E-U			Scandinavians, engine noise, report DK2OM
DARC	3521,0	1803	19	02	E	UiILL	J3E-U			Spanish fishery, report DK2OM
DARC	3521,5	2025	07	02	CIS	UiILL	A3E			CIS pirates, unstable carrier, report DK2OM
DARC	3522,2	2029	10	02	CIS	UiILL	A3E			CIS pirates, unstable carrier, report DK2OM
DARC	3524,0	2024	10	02	CIS	UiILL	A3E			CIS pirates, unstable carrier, report DK2OM
DARC	3528,3	2100	04	02	CIS	UiILL	A3E			CIS pirates, unstable carrier, report DK2OM
DARC	3548,5	1835	10	02	CIS	UiILL	A3E			CIS pirates, unstable carrier, report DK2OM
DARC	3561,3	1930	03	02	CIS	UiILL	A3E			CIS pirates, unstable carrier, report DK2OM
DARC	3590,0	0736	22	02	E	UiILL	J3E-U			Spanish fishery - report DK2OM
DARC	7000,0	0747	27	02	I	UiILL	J3E-U			2 male persons in Italian voice
DARC	7000,0	1618	23	02	CIS	UiILL	J3E-L			2 male persons in plain Italian language, their lingo is that of a radio amateur or CB-er
DARC	7000,0	vt	24	02	TUR	UiCAR	N0N			carrier h24, heard 0319, 0909
DARC	7000,0	vt	vd	02	TUR	UiCAR	N0N			long lasting carrier heard 18 - 27, tx-ing h24
DARC	7000,0	vt	21	02	I	IZ7PKY	J3E-L			Taranto, heard 1736 - 1746, with IZ7VRY - says he is "marconista 1a categoria"
DARC	7000,0	vt	21	02	I	IZ7VRY	J3E-L			OP Rafaele, says he is

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
										"uffiziale de la marina", heard 1737 - 1746, with IZ7PKY
DARC	7001,0	0900	24	02		UiPTR	F1B			fast reversals
DARC	7008,0	0118	27	02		UiCAR	N0N			long lasting carrier
DARC	7014,0	0747	27	02		UiMUX	PSK2A			AT-3004-D, location SW of Smolensk
DARC	7018,0	1736	21	02	RUS	UiPTR	F1B			fast reversals
DARC	7038,7	vt	vd	02	UKR	beacon D	A1A			beacon D, Sevastopol
DARC	7038,7	0310	24	02	UKR	beacon D	A1A			is beacon Sevastopol
DARC	7038,9	vt	vd	02	RUS	beacon S	A1A			beacon "S" - Severomorsk
DARC	7038,9	vt	vd	02	RUS	beacon S	A1A			beacon Severomorsk
DARC	7039,0	vt	vd	02	RUS	beacon C	A1A			beacon "C" - Moscow heard 0700, 1800, 1900
DARC	7039,0	vt	vd	02	RUS	beacon P	A1A			beacon "P", Kaliningrad
DARC	7039,1	vt	vd	02	KGZ	beacon A	A1A			beacon "A" - Bishkek
DARC	7039,1	vt	vd	02	KGZ	beacon A	A1A			beacon "A" - Bishkek
DARC	7039,2	vt	vd	02	RUS	beacon F	A1A			beacon "F" - Vladyvostok
DARC	7039,2	vt	vd	02	RUS	beacon L	A1A			beacon "L" - St. Petersburg
DARC	7039,4	vt	vd	02	RUS	beacon K	A1A			beacon "K" - Petropavlovsk
DARC	7039,5	vt	vd	02	RUS	beacon M	A1A			beacon "M" - Magadan
DARC	7039,9	ady	dly	02	I	IZ3DVW	A1A			un-coordinated beacon, unnecessary as a crob
DARC	7054,0	vt	02	03	RUS	UiPTR	F1B	50	200	again active since 1 March, S9+30dB, what a shame!
DARC	7055,0	1736	21	02		UiMOD	XXX			chirping pulses in short strings
DARC	7100,0	2120	20	02	E	UiILL	J3E-U			Spanish male to female, possibly fishery - report DK2OM
DARC	7105,0	2141	15	02	TWN	Sound of Hope	N0N			carrier, then Chinese px s/on at 2200
DARC	7105,0	2200	17	02	CHN	Soh Xi Wang Zhi Sheng	A3E			Chinese program in order to jam Sound-of-Hope, 2200 - 2300, found // on 7230
DARC	7105,0	2200	17	02	TWN	Sound of Hope	A3E			Chinese program 2200 - 2300
DARC	7105,0	2202	02	02	CHN	Soh Xi Wang Zhi Sheng	JAM			Chinese px in order to wipe out Sound-of-Hope
DARC	7105,0	2210	26	02	CHN	Soh Xi Wang Zhi Sheng	A3E			Chinese px in order to wipe out Sound-of-Hope
DARC	7105,0	2204	27	02	TWN	Sound of Hope	A3E			Chinese px, faintly audible under CHN jammer
DARC	7105,0	2202	02	02	TWN	Sound of Hope	A3E			Chinese px, spoken news, under jammer
DARC	7110,0	0118	27	02	BRM	R. Myanma r	A3E			typical music
DARC	7120,0	1824	18	02	SOM	R.Hargay sa	A3E			music px, S9+30dB
DARC	7120,0	1840	13	02	SOM	R.Hargay sa	A3E			px in Somali language
DARC	7175,0	1800	12	02		UiBC	A3E			unid BC - report DK2KL
DARC	7180,0	vt	21	02	ERI	VOBME	A3E			Arabic px, heard 1733 - 1800 s/off, s/off with song "Erityah..."
DARC	7180,0	1626	dly	02	ETH	ETH Govt Jam	A3E			report DK2OM
DARC	7189,9	0118	27	02	CLN	SLBC Sri Lanka	A3E			typical music
DARC	7200,0	0550	28	02	SDN	R.Omdur man	A3E			Ar px, S9+10dB signal

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	7200,0	0319	24	02	SDN	R.Omdurman	A3E			Holy Qur`an recitals, S9+15dB
DARC	10130,0	1645	09	02	TUR	OTH-Radar	FMCW			location is NW Turkey, 50 sps - report DK2OM
DARC	10130,2	0933	13	01	CLN	UiILL	J3E-U			report DK2OM
DARC	14000,0	vt	vd	02		UiOTH-Radar	FMCW			Mario, DG0JBJ, has sent 13 reports for the range 14000 - 14350 kHz
DARC	14036,0	1430	14	02	RUS	REA4	F1B	150	2000	harmonic of 7018 - report DK2OM
DARC	14060,0	1000	Sun	02	ROU	Radio Romania Intl.	A3E			IM from R.Romania, 17780 x 21500, only on Sundays - still heard 3 March 2013
DARC	14093,9	1549	26	02		UiBC	A3E			Ar music
DARC	14141,1	vt	26	02	S.As	UiILL	J3E-U			2 male persons in Asiatic voice, engine noise in background, heard 1530 - 1548, no hams!
DARC	14295,0	1546	06	02	TJK	R.Tajikistan	A3E			S8-signal, 3f, carrier "pumping"
DARC	18080,0	1142	01	02	CYP	UiOTH	FMCW			OTH-Radar from Cyprus - report DK2OM
DARC	21000,0	vt	vd	02		UiOTH-Radar	FMCW			Mario, DG0JBJ, has sent 115 reports for the range 21000 - 21450 kHz
DARC	21001,5	ady	01	03	RUS	UiILL	F1B			vocoder Yakhta synchro - report DK2OM
DARC	21003,5	0950	27	02		UiILL	J3E-L			unid male voice
DARC	21010,0	1157	12	02	TUR	UiOTH	FMCW			location S.Ea Turkey - report DK2OM
DARC	21050,0	1410	15	02	CYP	OTH-Radar	FMCW			OTH-Radar from Cyprus, 50 sps - report DK2OM
DARC	21054,0	1025	16	02	RUS	REA4	F1B	150	3000	harmonic of 7018 - report DK2OM
DARC	21101,2	1027	14	02	F.Ea	UiILL	J3E-U			Far East pirate net - report DK2OM
DARC	21116,0	0934	08	02	RUS	UiPTR	F1B	75	1000	harmonic from 5279, location area of Moscow - report DK2OM
DARC	21215,0	0915	dly	02	AUS	JORN	FMCW			Australian OTH-Radar, 50 sps - report DK2OM
DARC	21250,0	0920	08	02	AUS	OTH-Radar JORN	FMCW			50 sps, 1,3 sec bursts - report DK2OM
DARC	21425,0	0933	14	02		UiOTH	FMCW			chirping pulses, found // 21470
DARC	21438,0	vt	dly	02	UKR	RCV	A1A			RCV, RIP90 - is RUS Navy Sevastopol - report DK2OM
DARC	21440,0	0845	15	01	IRN	IRIB Tehran	A3E			fundamental 21510, IM also found on 21580 - report DK2OM
DARC	21440,0	0730	10	02	IRN	IRIB Tehran	A3E			is spurious from 21510 - report DK2OM
DARC	21445,0	0845	15	02	IRN	IRIB Tehran	A3E			is spurious from 21500 - report DK2OM
DARC	21470,0	0933	14	02		UiOTH	FMCW			chirping pulses, found // 21425, splattering into ham band
DARC	28000,0	vt	vd	02	IRN	OTH-Radar	FMCW			Mario, DG0JBJ, has monitored uncountable OTH-Radars from Iran jumping up and down in the range 28000 - 29700 kHz. It is impossible to indicate time and QRG as tx-ions sometimes lasted only some minutes on a

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
										frequency
DARC	28000,0	vt	vd	02		Driftnet Buoys	A1A			There are 55 reports from DJ7KA, DK2OM, KG4GVV, W5ZA, WJ50 for the month of February 2013 - range 28005 - 28432
DARC	28015,0	1652	22	02	E	UiILL	A3E			report DK2OM
DARC	28105,0	1218	19	02	F.Ea	UiILL	F3E			Far East pirate net - report DK2OM
DARC	28115,0	2236	16	02	RUS	Taxi Business	F3E			report DK2OM
DARC	28120,0	1158	12	02	IRN	UiOTH	FMCW			is splattering 28000 to 28500 kHz - report DK2OM
DARC	28145,0	1430	13	02	CIS	Taxi Business	F3E			male and female in Russian traffic
DARC	28145,0	1428	13	02	TUR	UiILL	F3E			Turkish male persons
DARC	28155,0	1437	13	02	CIS	Taxi Business	F3E			male and female in Russian traffic
DARC	28225,0	1430	13	02	CIS	Taxi Business	F3E			male and female in Russian traffic
DARC	28295,0	1430	13	02	CIS	Taxi Business	F3E			male and female in Russian traffic
DARC	28298,0	1036	08	02	IRN	OTH- Radar	FMCW			OTH-Radar, 307 and 870 sps - report DK2OM
DARC	28300,0	1054	05	02	IRN	OTH- Radar	FMCW			OTH-Radar, 307 and 870 sps - report DK2OM
DARC	28305,0	vt	dly	02	RUS	Taxi Business	F3E			taxi Krasnodar, report DK2OM
DARC	28305,0	1726	26	02	B	UiILL	A3E			Brasilian CB-ers, report DK2OM
DARC	28305,0	0758	28	02	IRN	OTH- Radar	FMCW			OTH-Radar, 307 and 870 sps - report DK2OM
DARC	28390,0	1434	13	02	CIS	Taxi Business	F3E			male and female in Russian traffic
DARC	28435,0	1439	13	02	IRN	OTH- Radar	FMCW			2 different tones, high and low, each lasting 4 - 5 seconds, repeated - QTE 090 degs.
DARC	28455,0	0812	16	02	IRN	OTH- Radar	FMCW			OTH-Radar, 307 and 870 sps, 60 kHz wide - report DK2OM
DARC	28895,0	vt	dly	02	RUS	Taxi Business	F3E			taxi Stavropol, report DK2OM
DARC	28945,0	vt	dly	02	UKR	Taxi Business	F3E			taxi Donetsk, report DK2OM
DARC	29055,0	vt	dly	02	RUS	Taxi Business	F3E			taxi Stavropol, report DK2OM
DARC	29525,0	1000	14	02	MRC	Datawell Buoy	F1B	82	140	Datawell Buoy "Waverider", located Moroccan Atlantic Coast, area of Casablanca - report DK2OM

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency

ALE (MIL188-141A) -> USB frequency – exclusive bands: black – shared bands: blue

voice traffic -> green BC -> red

SH = shift --- SP = spread (radar) – SPS = sweeps/sec (radar)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1800,2	1835	19	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1800,6	1833	19	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1800,9	2043	20	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1801,1	1757	20	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1801,9	2048	20	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1802,1	1758	20	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1802,8	2018	18	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1804,2	2119	16	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1807,3	2021	18	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1808,7	2118	16	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1809,6	2045	20	02	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1810,7	2050	20	02	CIS		A3E			CIS pirates, unstable carrier – now inside our band!
DK2OM	1811,0	2051	20	02	CIS		A3E			CIS pirates, unstable carrier – now inside our band!
DK2OM	1812,0	2118	20	02	E		USB			Spanish fishery, engine noise audible
DK2OM	1812,0	1805	21	02	POL		USB LSB			Polish “PIP” – 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 - Polish Baltic coast - POL Navy – legal operation (ITU footnote)
DK2OM	1881,4	1835	22	02	F		QPSK	100	100	BC-PSK – radio navigation - Nantes
DK2OM	1896,5	1830	22	02	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy
DK2OM	3500,0	1620	02	02	HOL		USB			Dutch fishery
DK2OM	3500,0	1756	12	02		names	USB			net in Arabic voice, “Sayed” is called
DK2OM	3500,0	1650	20	02	G		USB			UK fishery
DK2OM	3500,0	0740	23	02	E		USB			Spanish fishery – also 24.02.2013 at 2112 utc
DK2OM	3500,0	1844	25	02			USB			Scandinavians – engine noise
DK2OM	3500,7	1719	09	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3500,8	2053	26	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,3	2029	05	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,5	1930	07	02	CIS		A3E			CIS pirates, unstable carrier, daily
DK2OM	3501,8	1824	15	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,9	1933	16	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3502,5	1825	15	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,5	vt	dly	02	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – legal!
DK2OM	3503,6	1642	02	02	ISR		PSK4	75	2400	MIL-188-110A hybrid modem – ISR Navy
DK2OM	3506,7	2039	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3508,3	1833	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3509,0	0708	15	02	E		USB			Spanish fishery
DK2OM	3509,9	1851	05	02	CIS		A3E			CIS pirates, unstable carrier

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3510,5	2105	06	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3511,6	1852	07	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3514,3	1853	07	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3515,0	2021	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3515,0	2058	06	02	G		USB			UK fishery
DK2OM	3515,2	2022	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3515,5	1845	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3516,0	2050	26	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3516,8	2032	02	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3517,0	2302	26	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3520,0	2033	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3521,0	1803	19	02	E		USB			Spanish fishery
DK2OM	3521,5	2025	07	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3522,0	1804	19	02	BLR		F1B	75	250	NW Belarus - daily
DK2OM	3522,2	20298	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3524,0	2024	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3525,0	1827	15	02						frequency hopper
DK2OM	3526,5	vt	vd	02	I		F1B	300	850	system Clansman – daily, various times – area of Naples – legal!
DK2OM	3527,0	2027	05	02	RUS		F1B	50	200	Severomorsk – daily, often idle
DK2OM	3528,3	2100	04	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3532,0	2045	01	02	F		PSK4	75	2400	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3533,7	1939	16	02	CIS		A3E			CIS pirates, unstable carrier S9!
DK2OM	3535,0	2243	22	02	E		USB			Spanish fishery
DK2OM	3537,1	1855	17	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3540,5	2139	14	02	UKR		PSK2A	120	2600	AT3004D – south of Vinnitsa
DK2OM	3542,0	2034	06	02						frequency hopper
DK2OM	3544,6	1935	08	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3544,9	1829	15	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3548,0	1935	03	02	RUS		F1B	50	200	Severomorsk – also: 21.02.2013 at 2250 utc
DK2OM	3548,5	1835	10	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3550,0	0600	dly	02	F		A3E			French amateurs not respecting the bandplans
DK2OM	3550,0	2203	06	02	ALG		FSK8	125	1750	ALE, “IU50” “TU52” “FN50”
DK2OM	3550,0	2052	04	02	AZE		PSK2	120	2600	AT3004D – modem idle and traffic – area of Azerbaijan – daily
DK2OM	3550,0	2245	20	02	CIS		USB			man in Russian voice
DK2OM	3550,7	1846	27	02	ISR		PSK4	75	2800	MIL-188-110A hybrid modem – ISR Navy
DK2OM	3553,0	0743	04	02						frequency hopper
DK2OM	3553,8	ady	dly	02	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3557,0	2025	05	02	BLR		F1B	75	250	North Belarus - daily
DK2OM	3561,0	1831	15	02	RUS		F1B	75	250	Kaliningrad
DK2OM	3561,3	1930	03	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3562,8	1925	15	02			A1A			unknown CW-lessons
DK2OM	3568,0	1832	14	02	RUS		F1B	50	250	Velikiye Luki - daily
DK2OM	3570,0	2023	05	02	RUS		PSK2A	120	2600	AT3004D – Kaliningrad
DK2OM	3570,0	2030	07	02	HOL		USB			Dutch fishery, engine noise audible
DK2OM	3570,6	2246	22	02	BLR		F1B	81	240	system 81 – 3570.556 kHz - Minsk
DK2OM	3585,0	2246	12	02	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily legal!
DK2OM	3586,0	2005	05	02	RUS		F1B	75	250	Kaliningrad
DK2OM	3587,0	1935	08	02	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	1702	19	02	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	3590,0	0734	22	02	E		USB			Spanish fishery
DK2OM	3593,7	2255	13	02	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,9	2256	13	02	RUS	S	A1A			Cluster beacon – Severomorsk

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										RUS Navy – „RIT“
DK2OM	3600,4	1927	07	02	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3602,5	1830	04	02	UKR		F1B	65.4	254	Ukraine
DK2OM	3605,5	1944	08	02	F		F1B	100	200	area of Paris - daily
DK2OM	3606,0	1516	25	02	RUS		F1B	50	250	Kaliningrad
DK2OM	3608,0	2022	05	02	RUS		F1B	75/50	200	Kaliningrad
DK2OM	3610,0	1920	20	02		no call	LSB			illegal music transmission for QRM purposes
DK2OM	3617,0	vt	dly	02	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	02	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3724,0	2020	12	02	RUS		F1B	75	250	Moscow
DK2OM	3738,0	2103	17	02	RUS		F1B	50	250	Velikiye Luki
DK2OM	3744,5	2000	12	02	ISR		PSK4	75	2400	MIL-188-110A hybrid modem – ISR Navy
DK2OM	3756,0	ady	dly	02	UKR		A3E			UKR – pip – 10 tones – radio navigation system – BRAS-2/RS-10
DK2OM	3761,5	vt	vd	02	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3772,8	1820	04	02	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – Antwerpen - daily
DK2OM	3782,0	ady	dly	02	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	3792,0	2015	05	02	RUS		F1B	50	200	Kaliningrad
DK2OM	3797,0	1800	12	02	RUS		F1B	75	250	Smolensk
DK2OM	3797,0	2030	12	02	RUS		F1B	75	250	Velikiye Luki - daily
DK2OM	7000,0	ady	dly	02	INS		U/LSB			Indonesian pirates in USB and LSB – every evening audible in Europe – at 1000 utc audible in West Canada
DK2OM	7000,0	1004	14	02	CHN		FMCW		150k	Chinese OTH Radar – 43.5 sps – 6850 – 7000 kHz
DK2OM	7000,0	2305	13	02	ISR		N0N			carrier, long lasting, daily, all day
DK2OM	7000,0	0730	18	02	E		USB			Spanish fishery
DK2OM	7001,5	vt	vd	02	ALG		PSK4	62.5	1750	Clover 2000 – South Algeria
DK2OM	7010,0	1620	11	02	RUS		PSK2A	120	2600	AT3004D - Samara
DK2OM	7012,0	2229	1802	02	CHN		FMCW		52k	Chinese OTH Radar – 28.6 sps – 6960 – 7012 kHz
DK2OM	7012,0	0822	27	02	RUS		F1B	75	250	Kaliningrad
DK2OM	7014,0	0749	27	02	RUS		PSK2A	120	2600	AT3004D – SW of Smolensk
DK2OM	7018,0	2025	12	02	RUS	REA4	F1B	150	500/1000	most of the time idle – Russian airforce Moscow – daily, all day – even audible in Japan and Australia
DK2OM	7018,5	2025	12	02	RUS	REA4	A1A			ident in A1A 1540 and 1940 utc - “REA4” = RUS airforce Moscow - 7018.5 = mark QRG!
DK2OM	7019,0	1033	18	02						frequency hopper
DK2OM	7020,0	1539	07	02	FEa	Lima Zero	LSB			Far East net in Italian and Indonesian language, not audible in Europe – only via remote Japan, Australia and California (USA) and South Africa – “village radio”- daily!
DK2OM	7021,0	2250	13	02						frequency hopper
DK2OM	7025,0	2050	17	02			USB			unid pirates
DK2OM	7038,7	ady	dly	02	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	ady	dly	02	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	ady	dly	02	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	02	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	---	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7039,2	ady	dly	02	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “ RJS ”
DK2OM	7039,3	ady	dly	02	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “ RCC ”
DK2OM	7039,4	ady	dly	02	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „ RTS “
DK2OM	7039,95	1512	19	02	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	02	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	02	HRV		FSK8	125	1750	ALE, “9A5EX” – just for info
DK2OM	7049,5	vt	dly	02	F	F4BXW	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7070,0	vt	vd	02	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204”
DK2OM	7088,8	vt	vt	02	S	SL0FRO	A1A			cw-trainee, Sweden – 7088.816 kHz – just for info!
DK2OM	7089,8	vt	vd	02	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish SE coast – area of Cyprus - daily
DK2OM	7093,0	2141	20	02	CHN		FMCW		10k	Chinese burst OTH radar, 47.6 sps – 5.3 sec duration
DK2OM	7098,0	0756	18	02	RUS		F1B	75	250	Kaliningrad
DK2OM	7099,5	1831	18	02	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” – just for info!
DK2OM	7100,0	2120	20	02	E		USB			Spanish fishery, woman and husband
DK2OM	7102,0	vt	vd	02	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7105,0	2230	16	02	TWN CHN		A3E			Sound of Hope – Taiwan and Chinese music jammer - daily
DK2OM	7105,0	vt	dly	02	TUN		A3E			RTV Tunisia - intermodulation
DK2OM	7110,0	vt	dly	02	BRM		A3E		9k	Radio Myanmar
DK2OM	7113,8	2330	04	02	CAR		PSK8	2400	2400	MIL-188-110A – 1200 bps long – Carribean area
DK2OM	7120,0	1601	12	02	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7141,0	1620	24	02	RUS		PSK2	120	2600	AT3004D – Far East Russia
DK2OM	7166,0	0415	05	02	RUS		OFDM	30 / 1800	2750	OFDM 60 - Novosibirsk
DK2OM	7172,0	1921	05	02						frequency hopper
DK2OM	7174,0	1900	05	02	RUS		PSK4A	120	2400	AT3104D - Severomorsk
DK2OM	7180,0	1626	24	02	ERI ETH		A3E			Radio Ethiopia disturbing Radio Eritrea by white noise - daily
DK2OM	7185,5	vt	vd	02	D/ HRV		FSK8	125	1750	ALE, “9A5EX1P” “DK0ESD” just for info
DK2OM	10105,0	1838	15	02	E		USB			Spanish fishery
DK2OM	10110,0	0926	23	02			USB			unid pirates
DK2OM	10112,0	ady	dly	02	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DK2OM	10114,8	vt	dly	02	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10121,0	0924	13	02	RUS		F1B	75	250	area of Moscow
DK2OM	10125,0	0045	17	02	CHN		FSK8	125	1750	ALE, “277” “278” – China
DK2OM	10125,0	0745	22	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10130,0	vt	dly	02			FSK8	125	1750	Thales 3000
DK2OM	10130,0	1638	09	02	TUR		FMCW		20k	OTH Radar NW Turkey – 50 sps
DK2OM	10130,2	0933	13	02	CLN		USB			pirates, possibly CLN fishery
DK2OM	10135,0	1720	04	02	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	10145,5	1529	12	02	HRV S	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” – just for info
DK2OM	10150,0	1709	06	02			USB			man in Russin voice – short announces
DK2OM	10150,0	1708	20	02	FEa		USB			Far East male persons
DK2OM	13999,0	0721	19	02	RUS		PSK2A	120	2600	AT3004D - pilotone on 14000.300 kHz - Moscow
DK2OM	14000,0	1555	02	02						frequency hopper
DK2OM	14000,0	1505	17	02	FEa		USB			Far East pirates
DK2OM	14006,0	0820	02	02	RUS		PSK2	120	2600	AT3004D – submode idle – Velikiye Luki
DK2OM	14026,0	0746	04	02	RUS		PSK2A	120	2600	AT3004D – Velikiye Luki submode traffic

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14036,0	ady	dly	02	RUS	REA4	F1B	150	2000	harmonic from F1B on 7018 Hz, RUS airforce - Moscow - daily
DK2OM	14060,0	1000	Sunday	02	ROU	RRI	A3E			Radio Romania, IM from 17780 and 21500 kHz – 2 x 17780 = 35560 – 21500 = 14060 kHz every Sunday from 1000 – 1100 utc
DK2OM	14064,0	0818	08	02	RUS		F1B	50	250	Far East Russia
DK2OM	14109,0	0814	17	02	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14116,0	0855	08	02	RUS		F1B	50	250	
DK2OM	14169,0	0715	20	02	RUS		F1B	50	200	
DK2OM	14192,0	0810	04	02	RUS		F1B	50	200	RUS Navy Kaliningrad – often daily
DK2OM	14241,0	1050	28	02	CHN		FMCW			Chinese OTHR – bursts of 66.7 sps
DK2OM	14242,0	0802	16	02	RUS		PSK2A	120	2600	AT3004D – Velikiye Luki
DK2OM	14245,8	0900	08	02	RUS		OFDM			
DK2OM	14280,0	1010	13	02	UKR		A3E			Ukraine secret service SZRU – female voice spelling encrypted msgs – every Wednesday
DK2OM	14285,0	1412	14	02	RUS		FMCW		20k	OTH Radar – 50 sps – area Nizhniy Novgorod
DK2OM	14295,0	0726	15	02	RUS		PSK2A	120	2600	AT3004D – Velikiye Luki
DK2OM	14295,1	ady	dly	02	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14333,0	0757	05	02	RUS		FMCW		10k	OTH Radar – 66.66 sps bursts
DK2OM	14346,0	1525	22	02	HRV D		FSK8	125	1750	ALE, “9A0ZG” “DK0ESD” – just for info!
DK2OM	14347,0	1050	28	02	CHN		FMCW			Chinese OTHR – bursts of 66.7 sps
DK2OM	18080,0	1135	01	02	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	18180,0	0743	12	02	CHN		A3E		9k	Chinese music jammer – just for info
DK2OM	21000,0	1802	26	02	F		FMCW		20k	French burst radar, 6 sps, similar Codar, South France – same as 14000 - every 15 min, daily.
DK2OM	21000,0	1205	14	02	INS		USB			Indonesian pirates
DK2OM	21002,1	vt	vd	02	SDN		F1B	100	170	Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen - daily
DK2OM	21005,0	0815	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21010,0	1145	12	02	TUR		FMCW		20k	OTH Radar SE Turkey – 50 sps
DK2OM	21027,0	1601	06	02						frequency hopper
DK2OM	21050,0	1410	15	02	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21054,0	1020	16	02	RUS		F1B	150	3000	3 rd from 7018 kHz – REA4 – airforce Moscow
DK2OM	21060,0	0814	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21060,0	1025	04	02						frequency hopper
DK2OM	21060,0	1647	21	02	F		FMCW		20k	French burst radar, 6 sps, similar Codar, South France – every 15 min, daily.
DK2OM	21101,2	1025	14	02	FEa		USB			Far East pirates – 90 deg. from DL
DK2OM	21115,0	0813	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21145,0	vt	dly	02	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3”
DK2OM	21160,0	1144	01	02	RUS		F1B	100	2000	4 th from 5290 kHz (500 Hz shift) – St. Petersburg
DK2OM	21160,0	1145	01	02	IRN		A3E			BC IM – 1130 – 1200 utc
DK2OM	21170,0	0812	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21170,0	1040	02	02	TUR		FMCW		20k	OTH Radar NW-Turkey – 50 sps
DK2OM	21220,0	0755	12	02	TUR		FMCW		20k	OTH Radar NW-Turkey – 50 sps

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21225,0	0810	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21250,0	0907	08	02	AUS		FMCW		10k	JORN - 50 sps – 1.3 sec bursts – every 20 sec
DK2OM	21280,0	0810	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21300,0	1140	14	02	TUR		FMCW		20k	OTH Radar NW Turkey – 50 sps
DK2OM	21310,0	0946	09	02	TUR		FMCW		20k	OTH Radar NW Turkey – 50 sps
DK2OM	21323,5	0710	28	02	NPL		F1B	600	600	DPRK-FSK 600 - Kathmandu
DK2OM	21335,0	0810	19	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21370,0	0920	15	02	IRN		A3E			spurious from Radio Tehran on 21510, carrier on 21439.86 – distorted – A3E and F3E
DK2OM	21383,0	0842	02	02						frequency hopper
DK2OM	21390,0	0818	17	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21400,0	0800	dly	02	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21400,0	1444	28	02	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21408,0	1604	20	02						frequency hopper
DK2OM	21424,0	1023	03	02	RUS		F1B	50	400	harmonic from 10712 kHz (200 Hz shift) – very bad signal with many spurious emissions - Kazan
DK2OM	21438,0	vt	dly	02	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DK2OM	21440,0	0835	10	02	IRN		A3E		9k	spurious from Radio Tehran on 21510, carrier on 21439.86 – distorted – A3E and F3E – also: 15.02.2013
DK2OM	21445,0	0819	17	02	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz – first time heard on Oct. 1 st 2012 - no change on Feb. 2013 – daily!
DK2OM	24920,0	1118	06	02						frequency hopper
DK2OM	24925,0	0845	28	02	CHN		F3E?			unknown kind of transmission
DK2OM	24965,0	0916	23	02	CIS		A3E			CIS pirates
DK2OM	25000,0	ady	dly	02	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999
DK2OM	28000,0	vt	dly	02	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	02	CIS		F3E			28000 – 29700 numerous CIS taxi nets
DK2OM	28015,0	1652	22	02	E		A3E			Spanish CBers
DK2OM	28025,1	1204	22	02	POR		F1B	51	300	F1B bursts - west of Lisbon
DK2OM	28025,3	ady	dly	02	POR		F1B	51	300	F1B bursts - west of Lisbon
DK2OM	28045,0	ady	dly	02	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28055,0	1144	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28055,0	1146	22	02						frequency hopper
DK2OM	28070,0	0759	28	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps - jumping
DK2OM	28075,0	1245	06	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28080,0	1443	28	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps - jumping
DK2OM	28100,0	ady	dly	02	POR		F1B	51	320	F1B bursts - 28100.010 kHz - west of Lisbon
DK2OM	28100,1	ady	dly	02	POR		F1B	51	320	F1B bursts - 28100.100 kHz - west of Lisbon
DK2OM	28100,2	ady	dly	02	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon
DK2OM	28100,8	ady	dly	02	POR		F1B	51	320	F1B bursts - 28100.800 kHz - west of Lisbon
DK2OM	28102,0	ady	dly	02	POR		F1B	51	320	F1B bursts – 28102.000 kHz - west of Lisbon
DK2OM	28103,0	1044	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28105,0	1218	19	02	FEa		F3E			Far East pirates
DK2OM	28115,0	2236	16	02	RUS		F3E			taxi – area of Moscow – Oleg is

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										called by a woman – daily, all day – very busy net – still active in March
DK2OM	28115,0	1730	26	02	B		A3E			Brazilian CBers
DK2OM	28120,0	1145	11	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps – long lasting – splattering over 500 kHz (28000 – 28500)
DK2OM	28125,0	0930	02	02	RUS		F3E			taxi – area of Moscow - daily
DK2OM	28125,0	vt	vd	02	POR		F1B	51	280	F1B bursts – 28125.0 kHz - west of Lisbon
DK2OM	28125,0	0830	07	02	IRN		FMCW		60k	OTH Radar – 307 - 870 sps
DK2OM	28130,0	1448	05	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps – 60 kHz wide – bursts of 3.2 and 5.8 sec duration
DK2OM	28134,0	1121	05	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28135,0	1235	06	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28140,0	1234	06	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28145,0	1145	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28145,0	1730	26	02	B		A3E			Brazilian CBers
DK2OM	28165,0	1728	26	02	B		A3E			Brazilian CBers
DK2OM	28170,0	1236	06	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28177,0	0816	19	02						frequency hopper
DK2OM	28185,7	1741	26	02	South America?		F1B	302	200	burst system – south west from DL
DK2OM	28190,0	0817	19	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28200,0	ady	dly	02	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28200,0	0837	07	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps – also 26.02.2013 at 1446 utc
DK2OM	28201,5	0850	04	02	RUS		F1B	100	150	vocoder Yakhta synchro - Krasnodar
DK2OM	28205,0	0750	06	02	IRN		FMCW		60k	OTH Radar – 307, 460, 163 sps
DK2OM	28205,0	1727	26	02	B		A3E			Brazilian CBers
DK2OM	28210,0	vt	dly	02	UKR		F3E			taxi - Dnepropetrovsk
DK2OM	28214,0	0937	09	02						frequency hopper
DK2OM	28220,0	0941	09	02	IRN		FMCW		60k	OTH Radar – 870 sps
DK2OM	28245,0	0936	22	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps – also: 23.02.2013 at 0830 utc – NW Iran
DK2OM	28255,0	vt	dly	02	KAZ		F3E			taxi – Almaty
DK2OM	28255,0	1731	26	02	B		A3E			Brazilian CBers
DK2OM	28265,0	1530	16	02	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28265,0	1734	26	02	B		A3E			Brazilian CBers
DK2OM	28270,0	0755	28	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps - jumping
DK2OM	28275,0	vt	dly	02	POR		F1B	51	270	F1B bursts – 28275.040 kHz - west of Lisbon
DK2OM	28275,0	1555	20	02	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28278,0	0932	23	02						frequency hopper
DK2OM	28280,0	1050	05	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28285,0	vt	dly	02	RUS		F3E			taxi – Rostov na Donu
DK2OM	28285,0	1732	26	02	B		A3E			Brazilian CBers
DK2OM	28295,0	1726	26	02	B		A3E			Brazilian CBers
DK2OM	28298,0	1036	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28300,0	1054	05	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28305,0	vt	dly	02	RUS		F3E			taxi - Krasnodar
DK2OM	28305,0	1726	26	02	B		A3E			Brazilian CBers
DK2OM	28305,0	0758	28	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps - jumping
DK2OM	28315,0	1724	26	02	B		A3E			Brazilian CBers
DK2OM	28365,0	1558	20	02	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28370,0	1135	16	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps splatter from 27975 kHz
DK2OM	28390,0	vt	dly	02	RUS		F3E			taxi - Vladikavkaz
DK2OM	28432,0	1102	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28455,0	1116	13	02	IRN		FMCW		60k	OTH Radar – 307 sps (5.9 sec) - and 870 sps (3.2 sec) – splattering 28150 – 28750 kHz

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28456,5	1400	13	02	CIS		F1B	42.9	170	
DK2OM	28485,0	0940	09	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28490,0	1107	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28633,0	1100	08	02	IRN		FMCW		60k	OTH Radar – 870 sps
DK2OM	28640,0	1105	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28650,0	1108	08	02	IRN		FMCW		60k	OTH Radar – 870 sps
DK2OM	28655,0	0934	09	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28690,0	1041	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28695,0	1559	20	02	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28825,0	vt	dly	02	UKR		F3E			taxi - Odessa
DK2OM	28843,0	1056	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28865,0	1644	19	02	RUS		F3E			taxi area of Moscow – male and female – daily, all day
DK2OM	28872,0	1039	18	02						frequency hopper
DK2OM	28895,0	vt	dly	02	RUS		F3E			taxi - Stavropol
DK2OM	28945,0	vt	dly	02	UKR		F3E			taxi - Donetsk
DK2OM	29055,0	vt	dly	02	RUS		F3E			taxi Stavropol
DK2OM	29070,0	1057	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	29153,0	1016	10	02	IRN		FMCW		60	OTH Radar – 307 and 870 sps
DK2OM	29220,0	1104	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	29255,0	1142	08	02	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	29350,0	1050	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29355,0	1053	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29360,0	1049	08	02	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29500,0	ady	dly	02	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	0957	14	02	MRC		F1B	81,9	140	Datawell-buoy “Waverider” – Moroccan Atlantic coast – area of Casablanca – daily, all day
DK2OM	29575,0	1642	19	02	RUS		F3E			taxi area of Moscow – male and female – very active - daily, all day
DK2OM	145200,0	ady	dly	02	E		F3E			Spanish taxis in FM – Santa Cruz de Tenerife – URE is informed

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3503,6	2100	26	2	ISR		PSK 4	75	2400	Israel Navy
MRASZ	3513,3	1907	28	2			USB			figures, russian
MRASZ	3526,0	1941	6	2			N0N			
MRASZ	3526,0	2058	26	2			N0N			
MRASZ	3565,0	2058	26	2		Ui	A3E			Ui language
MRASZ	3593,7	2109	22	2	RUS	D	A1A			beacon "D"
MRASZ	3593,9	2057	22	2	RUS	S	A1A			beacon "S"
MRASZ	7000,0	0926	12	2			N0N			also at 15, 16, 17, 22, 28 of Febr.
MRASZ	7000,0	1406	22	2		Ui	A3E			"Angelo" italian language
MRASZ	7000,8	1037	16	2			N0N			
MRASZ	7001,0	0805	7	2		Ui	A3E			weak modulation
MRASZ	7015,0	1404	22	2			A1A			dots, deliberate disturbance
MRASZ	7018,0	1413	11	2	RUS	REA4	F1B		1000	also at: 22, 23, 28 of Febr.
MRASZ	7020,0	1859	6	2		Ui	LSB			"allo, allo"
MRASZ	7030,0	1756	7	2		Ui	USB			spanish language
MRASZ	7034,0	1944	15	2		Ui	LSB			"ola ola ola"
MRASZ	7035,4	1057	23	2			N0N			
MRASZ	7036,0	1845	28	2			F1B			
MRASZ	7038,0	0907	15	2			OTHR			short burst's

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7038,7	ady	dly	2	UKR	D	A1A			beacon "D"
MRASZ	7038,9	vt	vd	2	RUS	S	A1A			beacon "S"
MRASZ	7039,0	2103	22	2	RUS	C	A1A			beacon "C", also on 28 of Febr.
MRASZ	7055,1	0920	15	2			N0N			
MRASZ	7067,0	2010	22	2			LSB			italian, BC translate?
MRASZ	7077,5	2103	22	2	RUS	D	A1A			beacon "D"
MRASZ	7120,0	1747	6	2	SOM		A3E			BC also on 6, 7 17, 28 of Febr.
MRASZ	7122,4	0817	7	2			A1A			"1TT K"
MRASZ	7128,0	1720	28	2			N0N			
MRASZ	7170,0	1802	7	2		UiBC	A3E			
MRASZ	7180,0	1809	7	2		UiBC	A3E			also on 28 of Febr.
MRASZ	7185,0	1733	17	2		Ui	A3E			
MRASZ	7193,0	0820	7	2			N0N			
MRASZ	10121,0	1555	15	2		Ui	USB			Ui language
MRASZ	10150,0	1859	15	2		Ui	USB			arabian?
MRASZ	14262,6	1421	22	2			A1A			fast dots, disturbance
MRASZ	18070,0	1343	16	2			OTHR			18068-8090
MRASZ	18156,7	1448	22	2			A1A			dots, disturbance
MRASZ	21100,0	0957	15	2			OTHR			25 kHz
MRASZ	21400,0	1016	15	2			OTHR			21400-21450

OEVSU – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
Oevsv	3507.3	2035	24	0202			A3E			CIS pirates
Oevsv	3744.5	1705	12	02			J3E			MIL-188-110A
Oevsv	7030.0	2054	03	02			F3E			RTTY fast
Oevsv	7120.0	1715	12	02	SOM		A3E			BC
Oevsv	7170.0	0600	07	02			A3E			white noise
Oevsv	7174.9	1710	12	02			A3E			BC
Oevsv	7180.0	1730	24	02			A3E			Male speaker in arabic
Oevsv	18079.8	0630	07	02			A3E			Weak sigs QTE 120deg
Oevsv	21000.0	0625	13	02	IRN					OTHR
Oevsv	28455.0	1455	13	02	IRN					OTHR
Oevsv	28455.0	0600	14	02	IRN					OTHR
Oevsv	28455.0	0650	15	02	IRN					OTHR
Oevsv	29524.0	1555	22	02			F3E			RTTY fast

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500,0	08.40	22	02	E		J3E-U			Spanish fishers
REP	3501,5	07.20	10	02	E		J3E-U			Spanish fishermen
REP	3508,0	02.38	28	02			J3E-U			Unid language ops
REP	3508,0	19.16	28	02			J3E-U			Same ops as 3510, moved here
REP	3510,0	19.14	28	02			J3E-U			Unid language ops
REP	3515,0	08.19	11	02	E		J3E-U			Fishermen net
REP	3700,0	07.45	28	02			J3E-U			Navy operations
REP	7000,0	02.33	28	02	E		J3E-U			Spanish fishermen
REP	7005,0	08.16	28	02	E		J3E-U			Fishermen
REP	7015,0	08.11	20	02	E		J3E-U			Spanish fishermen talking
REP	7030,0	21.44	11	02			FMCW			OTH radar, short burts 10khz wide
REP	7035,0	07.06	26	02			J3E-U			Tests, voices but no calls
REP	7038,6	20.00	11	02	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038,7	23.05	13	02	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	23.19	13	02	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039,0	23.01	13	02	RUS	C	A1A			MOSCOW, ADY, DLY

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7039,1	22.11	13	02	KGZ	A	A1A			KIRGISISTAN, ADY, DLY
REP	7039,2	23.55	13	02	RUS	F	A1A			VLADIVOSTOK, ADY, DLY
REP	7039,3	21.00	06	02	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7039,5	22.07	06	02	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7043,5	13.43	23	02	F		J3E-L			French testers not observing Band Plan
REP	7045,0	13.43	23	02	F		J3E-L			French testers not observing Band Plan
REP	7048,0	13.43	23	02	F		J3E-L			French testers not observing Band Plan
REP	7070,0	13.20	12	02			J3E-L			Music jamming
REP	7100,0	21.07	17	02			F1B			RTTY not standard
REP	7105,0	22.12	15	02	CHN		8k00 A3EGN			Chinese language BC station
REP	7120,0	18.41	24	02	SOM		8k00 A3EGN			BC station (Radio Hargeysa)
REP	7120,0	16.35	24	02			8k00 A3EGN			Arabic BC station
REP	7180,0	09.29	09	02			Noise			Noisy unstable carrier (intermod ?)
REP	7185,0	17.44	19	02			8k00 A3EGN			BC Arabic
REP	10101,0	11.55	8	02	MRC		J3E-U			Arabic ops, morrocan fishermen
REP	10102,0	18.43	10	02	MRC		J3E-U			Many ops net morrocan fishermen
REP	10105,0	23.31	03	02	MRC		J3E-U			Talks – fishermen ?
REP	10110,0	23.59	03	02			A3E			Numbers Station - 4 letters transmission
REP	10115,0	21.00	18	02			J3E-U			Talks – 3 stations
REP	10115,7	19.30	25	02			A1A			Numbers station 5 letter groups
REP	10120,0	20.25	11	02	MRC		J3E-U			Many ops net morrocan fishermen
REP	10121,5	02.28	28	02			J3E-U			Unid language ops
REP	10130,0	17.21	10	02			FMCW			OTH radar 20khz
REP	10130,0	10.50	12	02	MRC		J3E-U			Many ops net morrocan fishermen
REP	10134,0	02.26	28	02	MRC		J3E-U			Large morrocan fishermen net
REP	10145,0	16.30	10	02	MRC		J3E-U			Arabic ops, morrocan fishermen
REP	10147,0	17.26	10	02			J3E-U			Unid language ops
REP	14000,0	10.54	25	02			J3E-U			Unid language SSB ops
REP	14001,0	08.52	10	02			F1B			Not standard speed
REP	14007,0	08.15	23	02	E		J3E-U			Net from fishermen
REP	14131,0	21.10	19	02			J3E-U			Voices – English language
REP	14140,0	20.38	19	02	I		J3E-U			Talks ship to ship
REP	14205,0	08.05	10	02			F1B			Not standard RTTY
REP	14267,0	08.01	1	02			F1B	50	250	Unid FSK
REP	18070,0	08.55	1	02			FMCW			OTH radar
REP	18070,0	13.54	2	02			FMCW			OTH radar
REP	18160,0	13.39	23	02			FMCW			OTH radar
REP	21035,0	09.53	10	02			J3E-L			Fishermen
REP	21070,0	13.02	2	02			FMCW			OTH radar, faint
REP	21085,0	13.03	2	02			FMCW			OTH radar
REP	21105,0	10.33	10	02			J3E-U			Arab talking
REP	21140,0	13.03	2	02			FMCW			OTH radar
REP	21305,0	09.06	22	02	E		J3E-U			Fishermen talking
REP	28050,0	09.24	14	02	RUS		F3E			Taxis
REP	28065,0	09.27	14	02	RUS		F3E			Taxis
REP	28070,0	00.23	05	02	F		A3E			CB's inside Ham Band
REP	28075,0	20.04	01	02	F		A3E			CB
REP	28075,0	19.14	25	02	B		A3E			Brazilian AM ops
REP	28135,0	17.22	03	02	RUS		F3E			Taxis
REP	28145,0	15.40	25	02	RUS		F3E			Taxis
REP	28161,5	17.46	10	02			J3E-U			Unid language ops
REP	28175,0	13.21	25	02			A3E			Taxis
REP	28194,7	13.12	4	02			A1A			Beacons NZ and PU, possible buoys
REP	28242,0	14.05	22	02	IRN		FMCW			Iranian OTH radar
REP	28305,0	18.26	23	02	E		A3E			CB ?
REP	28305,0	16.06	1	02	B		A3E			Numerous brazilian AM ops
REP	28330,0	14.25	06	02		UiOTR	FMCW			OTH Radar
REP	28355,0	18.06	22	02	RUS		F3E			Russian talking

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	h24	12. – 28.	2	ISR	UiCarr	N0N			100 Hz brum
SRAL	7008,0	1255	18.	2		UiPTR	F1B		250	
SRAL	7008,0	0855-1125	28.	2		UiPTR	F1B		200	
SRAL	7012,0	1100-1146/	19.	2		UiPTR	F1B		250	
SRAL	7012,0	0845	27.	2	RUS	UiPTR	F1B		250	Kaliningrad
SRAL	7014,0	1300-1630	13.	2		UiPTR	F1B		250	
SRAL	7014,0	0800-0810/	27.	2		UiMUX	J7D	12x120	12x200	
SRAL	7018,0	1000-1730	*	2	RUS	REA4	F1B		1000	Days: 4. 5. 6. 8. 9. 11. 12. 13. 17. 18. 19. 20. – 25. Moscow
SRAL	7018,6	1255-1435	28.	2		8ZXW	N0N/A1A			
SRAL	7020,0	0545-1310	4. 18.	2		UiPTR	F1B		250	
SRAL	7021,0	1300-1330	4.	2		UiMUX	J7D	12x120	12x200	
SRAL	7030,0	1450-1520	6.	2		UiMUX	J7D	12x120	12x200	
SRAL	7032,0	1000-1030	5.	2		UiMUX	J7D	12x120	12x200	
SRAL	7038,7	h24	dly	2	UKR	D	A1A			Sevastopol
SRAL	7038,8	0600-0930	*	2	RUS	P	A1A			Kaliningrad, days: 1.-9. 11. 17.
SRAL	7038,9	0645-1530	dly	2	RUS	S	A1A			Severomorsk
SRAL	7039,0	0500-1400	*	2	RUS	C	A1A			Moscow, days: 7. 11. 13. 17. 26. 28.
SRAL	7046,0	1500-1530	22.	2		UiMUX	J7D	12x120	12x200	
SRAL	7072,0	1115	11.	2		UiMUX	J7D	12x120	12x200	
SRAL	7098,0	0600-1217/	*	2		UiPTR	F1B		250	Kaliningrad, Days: 2. 3. 18. 25.
SRAL	7100,0	1245-1425	21.	2		UiCarr	N0N			12 min on 6 min off
SRAL	7111,0	0405	4.	2		UiMUX	J7D	12x120	12x200	
SRAL	7116,62	0545-0845	20.	2		UiCarr	N0N			
SRAL	7120,0	0230-0500	dly	2	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1330-1400	dly	2	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	2	SOM	R. Hargeisa	A3E			
SRAL	7125,0	1530-1600	9.	2		UiMUX	J7D	12x120	12x200	
SRAL	7127,0	0630-0810	11.	2		UiPTR	F1B		250	
SRAL	7131,0	1045	8.	2		UiPTR	F1B		200	
SRAL	7142,0	1030-1426/	18.	2		UiPTR	F1B/N0N		250	
SRAL	7144,0	0630-0810	11.	2		UiMUX	J7D	12x120	12x200	
SRAL	7147,0	1500-1521/	18.	2		UiMUX	J7D	12x120	12x200	
SRAL	7157,0	1015-1045	7.	2		UiPTR	F1B		500	
SRAL	7159,0	1015-	20.	2		UiPTR	F1B/		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1130					N0N			
SRAL	7160,0	1300-1515	4.	2		UiMUX	J7D	12x120	12x200	
SRAL	7166,0	1300-1330	9.	2		UiMUX	J7D	12x120	12x200	
SRAL	7167,0	0540-1507/	11.20.	2		UiPTR	F1B		250	
SRAL	7171,0	1000-1355	*	2		UiMUX	J7D	12x120	12x200	Days: 20. 21. 27.
SRAL	7171,9	0535-0640	25.26.	2		UiCarr	N0N			
SRAL	7174,0	1100-1140	5.	2		UiMUX	J7D	12x120	12x200	
SRAL	7175,0	0200-0630	dly	2	ERI	VoBME 2	A3E			jammed by ETH, QSY 7170 – 7180 kHz
SRAL	7175,0	1400-1800	dly	2	ERI	VoBME 2	A3E			QSY 7170 –7180 kHz, jammed by ETH until 1700,
SRAL	7193,0	0700-1400	*	2		UiPTR	F1B		200	Days: 1.- 9. 14. 16. - 20.
SRAL	7198,0	0730-0755/	3.	2		UiMUX	J7D	12x120	12x200	
SRAL	7199,0	0745-1050/	11.	2		UiPTR	F1B		200	
SRAL	7200,0	0855-0945/	28.	2		UiPTR	F1B		150	Dotter 25 Hz
SRAL	7200,0	0200-0500	dly	2	SDN	R Sudan	A3E			
SRAL	7200,0	1400-1600	dly	2	SDN	R Sudan	A3E			
SRAL	7200,0	1900-2100	dly	2	SDN	R Sudan	A3E			
SRAL	14086,0	0915-0922/	19.	2		UiMUX	J7D	12x120	12x200	
SRAL	14094,1	0855-1035/	26.	2		UiCarr	N0N			
SRAL	14242,0	0925	16.	2		UiMUX	J7D	12x120	12x200	
SRAL	14268,0	0755-1210	1.	2		UiPTR	F1B			
SRAL	14295,2	0500-1522/	dly	2	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	21 MHz	0455-1250	*	2		UiOTHR	FMCW			50Hz / 20 kHz, days: 5. 6. 7. 9. 11. 12. 13. 15. 16. 17. 19. 20. 21. 24. 25. 26. 25 reports
SRAL	28 MHz	0700-1300	19.28.	2	IRN	UiOTHR	FMCW			2 sec bursts, different tones

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3503.6	2304	09	02	ISR		Hyb		~3k0	Hybrid System ser/par
USKA	3527.0	2238	09	02			F1B	50	200	
USKA	3532.0	2227	09	02			B7D	75	6k00E	Link 11- CLEW often (in DSB or ISB mode)
USKA	3553.8	2248	09	02			G1D	2400	3k00E	PSK-8 Stanag 4285 frame format 600bps/long
USKA	3750.0	0152	04	02			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	3797.0	2243	09	02			F1B	75	250	almost daily
USKA	7000.0	0120	04	02	ISR		N0N			long lasting carrier often
USKA	7010.0	1522	10	02			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7018.0	1112	04	02	RUS	REA4	F1B	150	1000	daily
USKA	7030.0	2214	03	02			F1B	50	250	
USKA	7038.7	0127	04	02	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0132	04	02	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	0134	04	02	RUS	S	A1A			Beacon S Murmansk daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7039.0	1110	04	02	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.3	1726	05	02	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7039.4	0128	04	02	RUS	M	A1A			Beacon M Magadan daily
USKA	7070.0	1742	27	02		571	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	2321	27	02		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7088.8	0942	05	02			A1A			different speed rates; many special characters almost daily
USKA	7110.0	2344	07	02	MYA		A3E			BC daily
USKA	7118.0	2141	03	02			FMCW	66.66 sps	10k	OTHR Burst system in 2 blocks shifting frequency to 7122
USKA	7120.0	1637	02	02	SOM		A3E			Radio Hargeisa daily
USKA	7122.0	2141	03	02			FMCW	66.66 sps	10k	BD total ~ 7.8s; BRI ~31s
USKA	7124.0	1649	09	02			J7D	12x120	2k6	CIS12 system
USKA	7160.0	1534	04	02			J7D		2k6	CIS12 system, idling
USKA	7165.0	1700	11	02			A3E			BC, jammed often
USKA	7165.0	1700	11	02			Noise		10 kHz	Jammer often
USKA	7166.875	1305	11	02			A1			Jammer, illegal
USKA	7167.0	1307	11	02			F1B	50	250	
USKA	7170.0	1747	07	02	ERI		A3E			BC VOBM often
USKA	7174.0	0928	05	02			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D
USKA	7174.0	0932	05	02			A1A			only Ü "Jammer?"
USKA	7174.0	1327	11	02			F1B	50	250	
USKA	7175.0	1520	04	02			A3E			BC, jammed often
USKA	7175.0	1520	04	02			Noise		10 kHz	Jammer often
USKA	7180.0	1533	02	02			Noise		10 kHz	Jammer often
USKA	7180.0	1633	02	02			A3E			BC, jammed often
USKA	7185.0	1646	09	02			A3E			BC, jammed often
USKA	7185.0	1646	09	02			Noise		10 kHz	Jammer often
USKA	7189.8	0143	04	02	CLN?		A3E			BC (Sri Lanka as per Eibi List)
USKA	7198.0	0827	18	02			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	13999.0	0846	19	02			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D partially in 20m band
USKA	14060.0	1013	10	02	ROU	RRI	A3E			Radio Romania International QRT at 1059 IM: (2x17780)-21500 = 14060 kHz
USKA	14086.0	0842	19	02			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D
USKA	14192.0	1133	04	02			F1B	50	200	CIS 50-50 often
USKA	14295.2	0955	07	02	TJK		A3E			BC; Radio Tajikistan daily (3rd of 4765 kHz) daily
USKA	14303.0	0743	03	02			FMCW	66.66 sps	10k	OTHR BD 3.8s; BRI 15s
USKA	14341.0	1321	20	02			J7D		2k6	CIS12 system, idling only
USKA	14344.65	2253	17	02			PSK-8	2400	2k4	MIL 188-110A Hybrid mod often
USKA	18090.0	1116	04	02			FMCW	50 sps	20k	OTHR
USKA	21000.0	1122	04	02			N0N			long lasting carrier often
USKA	21055.0	0929	06	02			FMCW	25	20k	OTHR
USKA	21100.0	1001	15	02			FMCW	50 sps	20k	OTHR
USKA	21190.0	0956	05	02			FMCW	25	20k	OTHR
USKA	21250.0	1023	21	02			FMCW	50 sps	20k	OTHR
USKA	21308.0	1002	15	02			F1A		500	
USKA	21321.6	1008	15	02			F1B	600	600	ARQ system
USKA	21335.0	0928	14	02			FMCW	48	10k	OTHR Burst system; BD ~5.5s; BRI ~35s
USKA	21410.0	1120	04	02			FMCW	50 sps	20k	OTHR
USKA	21425.0	0933	15	02			FMCW	50 sps	20k	OTHR
USKA	21430.0	0916	11	02			FMCW	48 sps	10k	OTHR Burst system; BD 5.3s; BRI 20s
USKA	21430.0	0834	19	02			FMCW	50 sps	20k	OTHR
USKA	21438.0	1215	11	02		RCV	A1A			to: various stations often
USKA	21441.0	0927	10	02			A3E			BC: heavy distorted (IM?) daily same prgr as 21510 (0930 qrt)
USKA	28205.0	0945	06	02			FMCW	var sps	~50k	OTHR varying sweep rate BD ~ 3.2s; BRI
USKA	28455.0	0956	13	02			FMCW	var sps	~50k	OTHR varying sweep rate
USKA	28650.0	0926	08	02			FMCW	var sps	~80k	OTHR varying sweep rate and frequency over whole 10m band
USKA	29350.0	1011	05	02			FMCW	307 sps	~50k > 80k	OTHR varying sweep rate 307, 870 sweeps/s

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3561,0	18.49	6	2		UiPTR	F1B		Ptr
VERON	3586,0	18.50	6	2		UiPTR	F1B		Ptr
VERON	3688,0	17.37	18	2		UiPTR	F1B		Ptr
VERON	3782,0	0021	10	2	POR	CTP	F1B	8	Printer
VERON	3797,0	0017	10	2		UiPtr	F1B	250	Printer
VERON	7000,0	19.48	16	2	E	UiILL	J3E-u		Spanish male voices
VERON	7018,5	14.42	14	2	RUS	REA4	A1A		5F
VERON	7038,7	1528	23	2	UKR	D	A1A		Beacon Sevastopol
VERON	7038,8	06.52	5	2	RUS	P	A1A		P-beacon
VERON	7038,9	1528	23	2	RUS	S	A1A		Beacon Severomorsk
VERON	7039,0	06.52	5	2	RUS	C	A1A		C-beacon
VERON	7039,3	06.52	5	2	RUS	K	A1A		K-beacon
VERON	7105,0	2232	23	2	CHN		A3E		Chinese px; S7
VERON	7108,0	09.12	11	2		UiPTR	F1B		Idling
VERON	7116,0	10.30	28	2	France	UiILL	J3E-u		French male voices, fishery
VERON	7120,0	1749	9	2	SOM	R.Hargaysa	A3E		E.African lang; S5-6
VERON	7180,0	1537	9	2			JAM		White noise jammer; 20k spread
VERON	10123,0	09.05	1	2		UiPTR	F1B		Ptr
VERON	14192,0	09.28	4	2		UiPtr	F1B	200	revs, ptr
VEERON	14192,0	09.48	6	2		UiPTR	F1B		Revs (also at 11.02)
VERON	14268,0	09.12	1	2		UiPTR	F1B		Ptr
VERON	18081,5	09.05	11	2	CIS	B4M4	A1A		9RFU de B4M4 QRJ2 K AR
VERON	18091,7	09.16	1	2		UiPTR	F1B		Idling
VERON	18092,0	08.58	28	2		UiPTR	F1B		Idling
VERON	21048,0	1419	15	2		UiRadar	FMCW	32k	OTHR 50pps;
VERON	21281,0	1430	16	2	CIS		F3E		Taxi communication; Russian lang.
VERON	21295,0	1429	16	2					Frequency hopper
VERON	21438,0	07.22	4	2	RUS	RCV	A1A		RFH70 DE RCV: proc, nawip
VERON	24930,0	1417	15	2					Frequency hopper
VERON	28249,0	1128	23	2		UiMUX		80k	Strange multitone system

The monitoring team of IARU Region 1

Many thanks for your interest!

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Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas – Bad Bergzabern - Germany

FTS – Funktechnik Seipelt – Hoppegarten - Germany

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