



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

July 2018

The 28 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVS: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: G4DYA - Richard ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – N.N. ++ UBA: ON8IM – Ivan +++ URE: EA6AMM - Gaspar ++ USKA: HB9CET - Peter ++ VERON: PG1R - Ruud ++ ZRS: S56ZDB – Darko ++ LU1BCE – Carlos (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster supp.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1 ++ **unofficial member**: ++ ASTRA - DL1BDF - Mustapha ++ PTTS: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT ++ Austrian PTT

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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Part 1: News and Infos

1. EA6AMM now URE Monitoring System Coordinator



Gaspar in his shack

EB1TR, Fabian, left our system. Many thanks for your support dear Fabian!

EA6AMM, Gaspar Miro, is the successor of Fabian. Welcome to our IARU Region 1 Monitoring System dear Gaspar!

2. Kiwi-SDR (TDoA) bearing system – a great progress

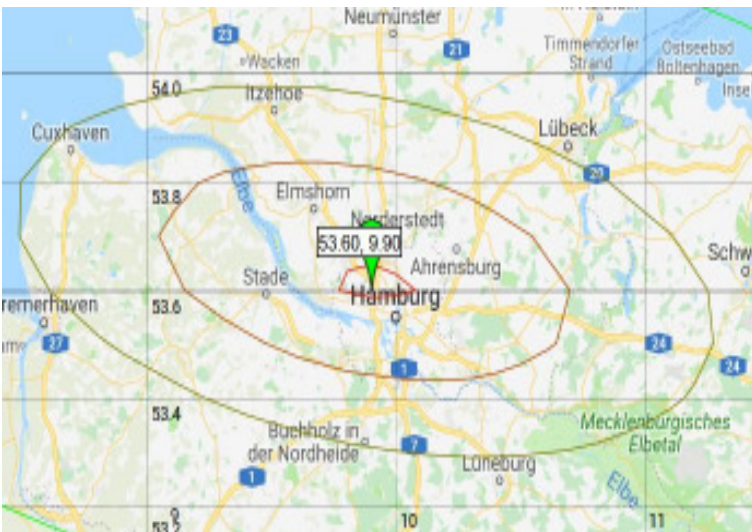
The new Kiwi-SDR sub system TDoA for bearing purposes is an excellent tool to find out the locations of intruders with high precision. Many thanks to all involved developers and programmers! <https://sdr.hu>
Here a couple of results:



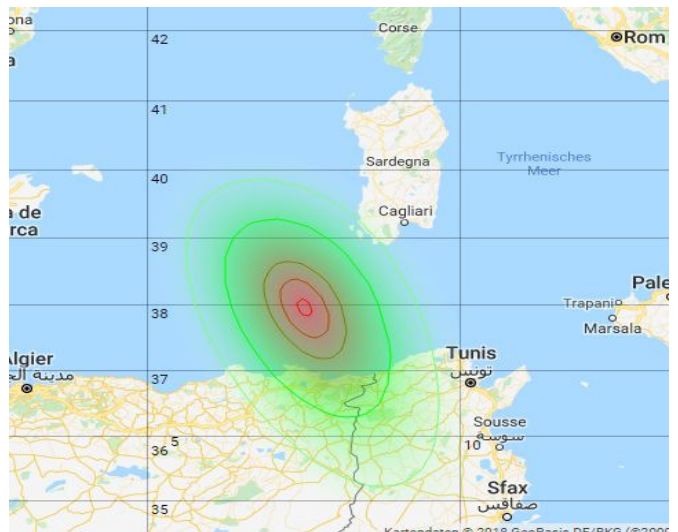
OTH radar Cyprus on 21 MHz (OH2BLU)



illegal Irish fishery USB-traffic on 7009.0 kHz (CT2IWW)



DDK9 – DL WX service on 10100.8 kHz (HB9CET)



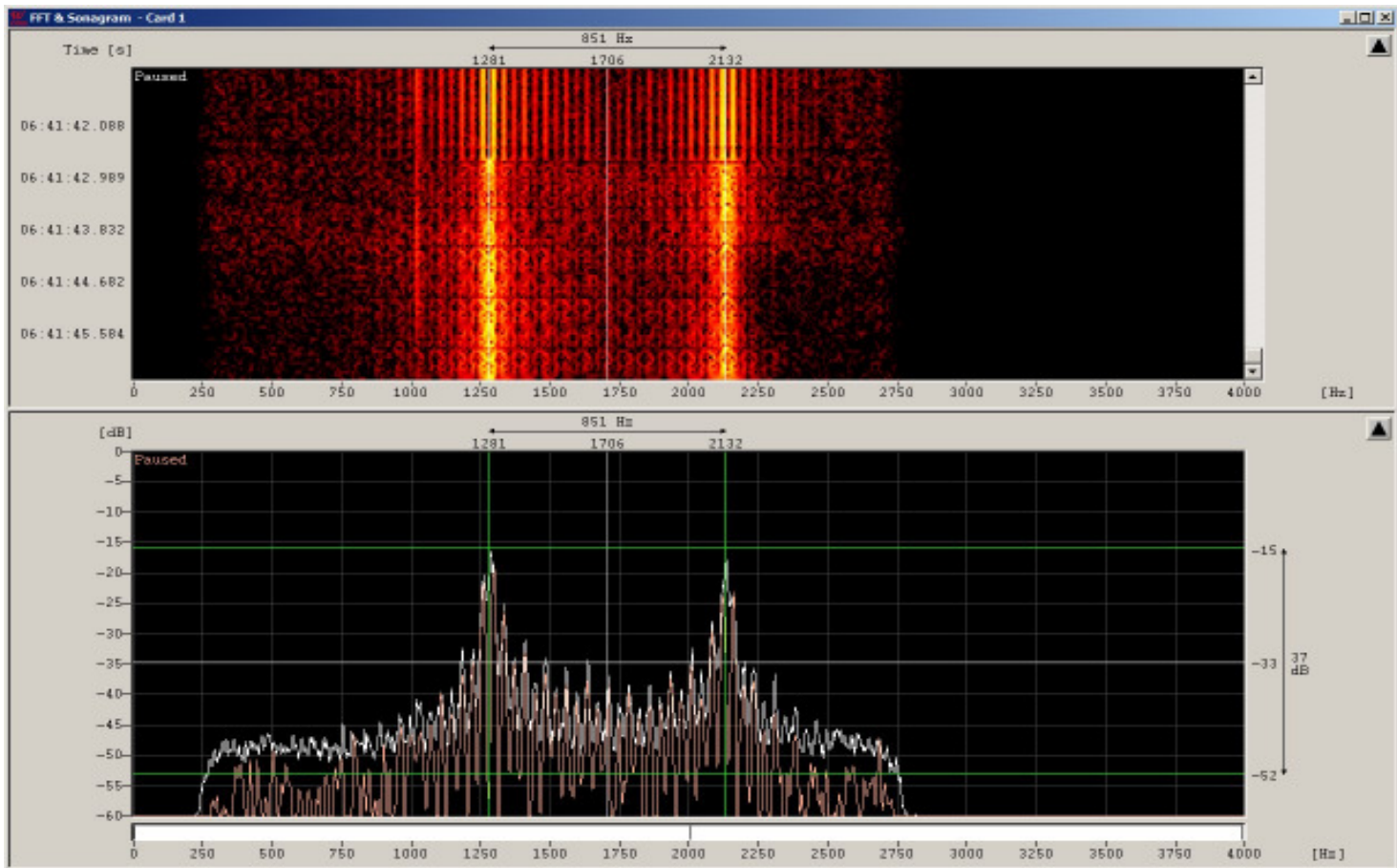
LINK11-SLEW on 7088 kHz (DK2OM)

3. Illegal fishery traffic 7009.0 from Northern Ireland

Fishermen from Northern Ireland abused 7009.0 kHz on USB like telephone daily. DF (bearings) above!

4. Stanag-4481 on 7101.7 kHz

Stanag-4481 on 7101.7 kHz – F1B 75 Bd – 850 Hz shift – KG84 encrypted – SW England on July 6th at 0628 utc. Screenshot: DK2OM with Wavcom W-Code – Sonagram and FFT



5. Spanish fishery with voice scrambler “CRY 2001”

Spanish fishermen were very active on 3585.0 kHz (USB) with their voice scrambler “CRY 2001”. This frequency is also in use by Taiwan weather-fax since several years!

7. Moroccan fishery on 7 and 10 MHz

Moroccan fishery abused 7000.0 USB, 7001.0 USB (area of Canary Islands) and 10140.0 USB (Casablanca) for daily skeds. They talked and joked about “Radio Amateurs”.

8. Sunflower on 5 MHz

The Russian coastal radar “Sunflower” (= Podsolnukh) was active on 5350 kHz (50 – 100 kHz wide) with 43 sps (= PRF 43). Ham Radio on the shared band and other services were concerned. Location: Makhachkala – Caspian Sea – More infos in my table!

9. Fishnet buoys on 28 MHz

We found fishnet and Enagal GPS buoys again on 28 MHz under Sporadic E conditions.

10. Miscellaneous news:

3500, 3535, 3540, 3560, 3585, 3590, 7000 kHz – USB – Spanish fishermen often
5350.0 kHz – USB – Spanish fishery – splattering up to 5353.0 kHz
7120.0 kHz – Radio Hargeisa Somalia – defective in June – back in July
7140 kHz – Radio Eritrea – no white noise QRM by Radio Ethiopia
28000.0 – USB – pirate meeting point (France, Spain, UK, North Africa)

11. Homepage IARU Region 1

<http://www.iaru-r1.org/>

Homepage IARUMS Region 1

<http://www.iarums-r1.org>

Homepage IARUMS Region 2

<http://www.iaru-r2.org/>

Homepage IARUMS Region 3

<http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>

Intruderlogger Region 1

<http://peditio.net/intruder/bluechat.cgi>

ITU-Monitoring Reports

<http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

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 = orthogonal 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 *** **PRF** = pulse repetition frequency (radar) = **sps** *** **sps** = sweeps/sec (radar systems) *** **FMCW** = frequency modulated continuous wave (OTH radars)
FMOP = frequency modulation on pulse (OTH radars) *** **5BL** = cyrillic 5 lettergroups *** **DF** = direction finder

RSK – Kenya – 5Z4BV (Kamweti)

NA

DARC 1 – Germany – DG0JBJ (Mario) – OTH radar intrusions

DG0JBJ (Mario) observed **0** OTH radars on 40 m, **1** OTH radar on 20 m, **4** OTH radars on 17m, **6** OTH radars on 15 m and **28** OTH radars on 10 m in July 2018.

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center QRG - ALE (MIL188-141A) -> USB QRG

exclusive bands -> black – shared bands -> blue - voice traffic -> green - BC -> red

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

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	2110	13	07	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	vt	dly	07	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2111	13	07	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	vt	dly	07	I	IQN	USB			Lampedusa Radio, weather reports - daily
DK2OM	1888,0	2112	13	07	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	---	--	07	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy
DK2OM	1925,0	2037	17	07	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	07	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3520,0	2012	19	07	E		USB			Spanish fishery with voice scrambler “CRY 2001”
DK2OM	3525,0	---	--	07	F		PSK8	2400	6000	LINK11-SLEW on both sidebands (6000 Hz wide) – area of Marseille – legal!
DK2OM	3525,0 RF	1900	15	07	I		PSK4	75	2310	Link11 – CLEW (16 x 75 Bd) – ship west of Rome
DK2OM	3527,0	2100	03	07	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	2140	31	07	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	1940	31	07	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	1910	02	07	E		USB			Spanish fishery – also 19.07.18

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										at 2044 utc
DK2OM	3540,0	2024	19	07	E		USB			Spanish fishery – also 31.07.18 at 2045 utc
DK2OM	3545,0	2133	25	07	E		USB			Spanish fishery
DK2OM	3545,6	1945	02	07	E		USB			Spanish fishery
DK2OM	3550,0	0730	dly	07	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,0	vt	vd	07	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	1950	02	07	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	07	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3559,5	2038	05	07	BLR		PSK2A	120	2600	AT3004D – submode idle
DK2OM	3560,0	2000	14	07	E		USB			Spanish fishery – long lasting – also 3535.0 USB – every evening
DK2OM	3570,0	2030	19	07	E		USB			Spanish fishery
DK2OM	3570,0	1930	31	07	E		USB			Galician fishery – ship engine noise
DK2OM	3570,5	1827	26	07	UKR		F1B	81	250	
DK2OM	3575,5	2128	17	07	BLR		PSK2A	120	2600	AT3004D
DK2OM	3576,6	ady	dly	07	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3580,6	2150	23	07	BLR		QRM		800	broken signal with 100 Hz spectral lines – defective power supply? – PSK31 impossible
DK2OM	3585,0	ady	dly	07	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3585,0	2022	10	07	E		USB			Spanish fishery with voice scrambler “CRY 2001” - often
DK2OM	3586,6	2040	16	07	E		USB			Spanish fishery – also 21.07.18 at 1840 utc
DK2OM	3587,0	vt	vd	07	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,8 RF	2004	16	07	I		PSK8A	2400	2400	Stanag-4285 - Italy
DK2OM	3593,7	---	--	07	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	07	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	07	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	07	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,0 RF	---	--	07	ISR		PSK4A PSK8	75 2400	2600 2400	hybrid modem – 6 pre-carriers PSK4 parallel and MIL-188-110A modified – ISR Navy – shared band!
DK2OM	3594,2	---	--	07	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	07	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	07	J		FSK8	125	1750	ALE, “JHIESB” – just for info!
DK2OM	3622,5	ady	dly	06	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3745,5	---	--	07	RUS	RMP	A1A			encrypted figure groups – Kaliningrad – ident “RMP” – Navy Kaliningrad
DK2OM	3756,0	1800	dly	07	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily
DK2OM	5260,0	2105	04	07	RUS		FMOP		106k	5260 – 5366 kHz – RUS coastal radar “Sunflower” – 43 sps


DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Makhachkala – Caspian Sea
DK2OM	5315,0	1930	01	07	RUS		FMOP		50k	5315 – 5365 kHz – RUS coastal radar “Sunflower” – 43 sps Makhachkala – Caspian Sea
DK2OM	5340,0	2106	03	07	RUS		FMOP		74k	5340 – 5414 kHz – RUS coastal radar “Sunflower” – 43 sps Makhachkala – Caspian Sea
DK2OM	5350,0	---	--	07	E		USB			Spanish fishery – splattering up
DK2OM	5361,8 RF	---	--	07	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	6874,0	1753	12	07	CHN		FMOP		160k	6874 – 7034 - Chinese wideband OTH radar – 10 sps
DK2OM	6998,0 RF	1836	13	07	RUS		PSK2A	120	2600	7000.0 center - AT3004D – Sevastopol
DK2OM	6998,0 RF	1645	21	07	RUS		PSK2A	120	2600	7000.0 center - AT3004D – Samara
DK2OM	7000,0	ady	09	07	INS		LSB			Indonesian pirates – chatting and playing music
DK2OM	7000,8	0846	31	07	?		?		2400	6999.0 RF - too weak for DF
DK2OM	7001,0	vt	01	07	FEa		FMOP		10k	OTH radar bursts – 48 sps
DK2OM	7001,0	2000	06	07	MRC		USB			Moroccan fishery – area of Canary Islands
DK2OM	7009,0	1001	31	07	G		USB			fishermen from Northern Ireland – daily, various times
DK2OM	7009,0	2047	24	07	RUS		PSK2A	120	2600	AT3004D – submode idle – Moscow
DK2OM	7010,0	vt	vd	07	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7010,0	1450	11	07	INS		LSB			Indonesian pirates
DK2OM	7016,0	1415	11	07	RUS		F1B	100	250	very unclean - Moscow
DK2OM	7018,0	---	--	07	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	07	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7020,0	1448	11	07	INS		USB			Indonesian pirates
DK2OM	7020,0	2200	25	07	E		USB			Spanish fishery
DK2OM	7030,0	1652	05	07	CHN		FMOP		160k	7030 – 7190 - Chinese wideband OTH radar – 10 sps
DK2OM	7031,0 RF	1625	18	07	RUS		unid			pulsing carrier and spurious – 7032.170 - Sevastopol
DK2OM	7038,8	---	--	07	RUS	P	A1A			Cluster beacon „P“ – Kaliningrad RUS Navy – “RMP”
DK2OM	7039,0	---	--	07	RUS	C	A1A			Cluster beacon „C“ - Moscow RUS Navy - “RIW”
DK2OM	7039,2	---	--	07	RUS	F	A1A			Cluster beacon „F“ - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	--	07	RUS	K	A1A			Cluster beacon “K” Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	ady	dly	07	RUS	M	A1A			Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily
DK2OM	7040,0	ady	dly	07	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	07	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7045,0	2104	25	07			USB			male persons in French voice – Codan beep
DK2OM	7049,5	vt	dly	07	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	07	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7055,0	vt	dly	07	UKR ?		LSB			music and Russian voices

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7057,0	0711	13	07	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7060,0	1726	11	07	TWN		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7060 – 7092 kHz
DK2OM	7088,0 RF	1145	20	07	ALG		PSK8A	2400	2400	7089.8 center - Link11 – SLEW ship between NE ALG and Sardinia
DK2OM	7088,8	vt	vd	07	S	SLOFRO	A1A			7088.830 kHz - cw-trainee, Sweden - SLOFRO - just for info!
DK2OM	7089,8	1956	29	07	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7090,0	vt	07	07	TWN		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7090 – 7122 kHz
DK2OM	7092,0	vt	11	07	TWN		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7092 – 7124 kHz
DK2OM	7099,5	vt	dly	07	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7101,7	0628	06	07	G		F1B	75	850	Stanag-4481-FSK – KG84 encrypted - SW England
DK2OM	7102,0	vt	vd	07	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7110,0	vt	dly	07	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7111,0 LSB	vt	01	07	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7112,0 LSB	vt	13	07	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7112,0	1810	05	07	FEa		FMOP		70k	7078 – 7148 kHz – coastal radar “Sunflower” – 43 sps
DK2OM	7116,0 LSB	vt	16	07	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7117,0	---	--	07	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7120,0	1912	02	07	SOM		A3E		9k	Radio Hargeisa – Somaliland
DK2OM	7125,0	0705	25	07	I		USB			Italian pirates
DK2OM	7137,0	vt	dly	07	TWN		FSK8 LSB	125	1750	ALE, “EDKLT” “EVSNG” “ECCLT” “EFNGX” “EVNNM” “EVWRK” “EGFXA” “ECQUY” “EFYMO” “EWPEN” “ECXKF” “EWRAJ” “ECHTD” “EUIQE” “EBPGH” Taiwanese navy
DK2OM	7140,0	1620	30	07	ERI		A3E		9k	7140.022 kHz - Radio Eritrea
DK2OM	7140,0	0706	13	07	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	7156,0	2002	04	07	TWN		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7156 – 7188 kHz
DK2OM	7161,0	2035	08	07	TWN		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7161 – 7193 kHz
DK2OM	7163,0 LSB	vt	31	07	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7167,0	1000	11	07	RUS		F1B	75	250	Kaliningrad
DK2OM	7168,0	2030	24	07	RUS		F1B	75	200	Makhachkala – Caspian Sea
DK2OM	7169,0	1730	26	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7178,0	1738	26	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7185,5	vt	dly	07	J TWN		FSK8	125	1750	ALE, “BV4AS” “JH1ESB” - just for info - daily
DK2OM	7186,0	0945	09	07	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	7200,0	vt	vd	07	MMR		A3E		9k	Myanmar Radio
DK2OM	7200,0	1704	12	07	RUS		PSK2A	120	2600	RF 7198.0 kHz - AT3004D - Kaliningrad
DK2OM	9982,0	1444	12	07	CHN		FMOP		160k	9982 – 10142 - Chinese wideband OTH radar – 10 sps –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										50 sec blocks – jumping 11143
DK2OM	10100,8	ady	dly	07	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	07	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10110,0	1915	12	07			USB			pirates in French voice
DK2OM	10113,0	vt	vd	07	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0640	dly	07	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10115,0	vt	dly	07	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – West Sahara
DK2OM	10120,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10120,0	1528	20	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10120,0	1520	21	07	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	10121,6	1950	11	07	MRC		USB			pirates – every evening
DK2OM	10122,0	1716	13	07	E		USB			pirates – Bay of Biscay
DK2OM	10123,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10124,0	vt	dly	07	ALG		FSK8	125	1750	ALE, “OEB” - ALG airforce
DK2OM	10129,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10130,0	1220	27	07	RUS		F1B	50	500	east of Chita
DK2OM	10131,0	1017	19	07	RUS		F1B	75	200	ship – Baltic Sea
DK2OM	10133,0	1007	19	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10135,0	0945	21	07	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	10136,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10140,0	0730	04	07	MRC		USB			Moroccan fishery – Casablanca - daily – various times
DK2OM	10144,0	ady	dly	07	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,0	0710	18	07	RUS		PSK2A	120	2600	AT3004D - Perm
DK2OM	10145,5	vt	dly	07		JH1ESB	FSK8	125	1750	ALE, “JH1ESB” - just for info - daily
DK2OM	10145,5	vt	dly	07	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	10148,5 RF	0930	04	07	CHN		PSK4A	75	2250	PRC4+4 – 8 x 75 Bd
DK2OM	14000,0	2000	20	07	FEa		USB			Far East pirates
DK2OM	14000,2	1800	dly	07	FEa		USB			Far East pirates - daily
DK2OM	14008,0	0845	12	07	RUS		F1B	50	250	Moscow – also 23.07.18 at 0920 utc
DK2OM	14048,5	0736	24	07	RUS		F1B	600	600	DPRK-FSK 600 – DPRK emba Moscow
DK2OM	14048,7	0742	31	07	RUS		F1B	1200	1200	DPRK-FSK 1200 – DPRK emba Moscow
DK2OM	14050,0	0800	18	07	RUS		F1B	75	200	north of Moscow
DK2OM	14068,0	0800	26	07	RUS		F1B	75	250	Irkutsk
DK2OM	14088,0	0856	19	07	CHN		FMOP		160k	14088 – 14248 - Chinese wideband OTH radar – 10 sps - jumping
DK2OM	14100,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJJ” – Mauritanian border – daily, all day
DK2OM	14109,0	vt	dly	07	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	07	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14109,0	vt	vd	07	J		FSK8	125	1750	ALE, “JH1ESB” – just for info
DK2OM	14112,0	1010	10	07	RUS		PSK2A	120	2600	AT3004D – Moscow
DK2OM	14116,0	1008	11	07	RUS		F1B	75	250	Moscow

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14146,0	0858	17	07	FEa		FMOP		40k	Far East OTH radar – 38 sps – 14125 – 14165 kHz – long lasting
DK2OM	14160,0	vt	dly	07	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14160,0	0716	06	07	RUS		F1B	75	200	area of Moscow ?
DK2OM	14170,0 RF	0824	31	07	CHN		OFDM	44.44	2400	OFDM 39 – PSK4B – China
DK2OM	14171,0	0827	16	07	RUS		PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	14192,0	vt	dly	07	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14221,0	2030	02	07	KGZ		F1B	50	200	Bishkek – mostly idling - daily various times
DK2OM	14224,0	1401	11	07	FEa		FMOP		10k	unid radar bursts – 30 sps – also: 14.07.18 at 0947 utc – daily – various times
DK2OM	14234,0	0812	17	07	CHN		FMOP		160k	14234 – 14394 - Chinese wideband OTH radar – 10 sps
DK2OM	14260,0	vt	dly	07	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14260,0	---	--	07	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14262,0	1008	15	07	CHN		FMOP		10k	Chinese OTH radar 48 sps
DK2OM	14295,0	vt	dly	07	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14305,0	0853	25	07	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts
DK2OM	14330,5 RF	1504	11	07	CHN		PSK4A	75	2250	PRC4+4 – 8 x 75 Bd
DK2OM	14345,9	vt	dly	07	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.934 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	vt	dly	07	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	18080,0	0630	dly	07	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18095,0	0834	24	07	CHN		FMOP		160k	18095 – 18255 kHz - Chinese wideband OTH radar – 10 sps
DK2OM	18100,0	vt	dly	07	MRC	no ITU	FSK8	125	1750	ALE, “A2” “A4” “A5” “A7” “S6” – “C3” “R3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	07	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18106,2	vt	dly	07	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vt	vd	07	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	---	--	07	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18127,0	0953	22	07	CHN		FMOP		10k	Chinese OTH radar 50 sps – 5 sec bursts
DK2OM	18150,0	---	--	07	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	07	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21096,0	vt	dly	07	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	07	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21145,0	vt	dly	07	MRC	no ITU	FSK8	125	1750	ALE, “A” “B301” “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “J52” “GR2” “GS4” “R3” “R301”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“R33” “R8” “R5” “Y1” “S51” “S3” “S4” “S512” “S552” “G2” “G501” - various times, daily
DK2OM	21145,8	ady	dly	07	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21190,0	---	--	07	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow
DK2OM	21400,0	---	--	07	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21438,0	0832	11	07	RUS	RCV	A1A			RKZ – RJV de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	ady	dly	07	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	21446,0	0821	15	07	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.9 sec bursts
DK2OM	25000,0	---	--	07	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	ady	dly	07	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	vt	dly	07	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	0730	07	07	IRN		AM-pulse			splatters from Iran radar on 27960 kHz – 308 and 870 sps
DK2OM	28000,0	1245	21	07	RUS		USB			pirates in Russian voice
DK2OM	28000,8	1830	15	07	G		MFSK-65	2.69	20	28000.750 kHz - JT65 – 280 deg from DL
DK2OM	28000,8	vt	vd	07	G?		MFSK-65	2.69	20	28000.750 kHz – JT65 - YC6GHT – SW3UOS – 1S9LND – SV0VVD – not mentioned in QRZ.com!
DK2OM	28025,0	---	--	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28035,0	ady	dly	07	RUS		F3E			RUS taxi – Moscow - daily
DK2OM	28051,5	---	--	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28055,0	0855	28	07	RUS		F3E			Russian CBers
DK2OM	28065,0	0840	03	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	0956	03	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28105,0	0816	21	07	RUS		F3E			RUS taxi – female person
DK2OM	28185,0	1606	28	07	RUS		F3E			RUS taxi
DK2OM	28195,0	1422	12	07	RUS		F3E			RUS taxi – north of Moscow - daily – all day
DK2OM	28212,0	---	--	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28275,0	---	--	07	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28435,0	----	--	07	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	---	--	07	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Gabon - daily
DK2OM	28499,8	---	--	07	MEa		F1B	81.9	140	Datawell-buoy "Waverider" – 28499.875 kHz – Persian Gulf
DK2OM	28746,5	---	--	07	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	07	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28860,0	2045	06	07	IRN		AM-pulse		55k	Iranian radar bursts – 313 and 150 sps – long lasting
DK2OM	29114,0	---	--	07	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	07	E		F1B	81.9	140	Datawell-buoy "Waverider" – 29249.880 kHz – Spain Fuerteventura – reported by CT2IWW
DK2OM	29375,0	---	--	07	I		F1B	81.9	140	Datawell-buoy "Waverider" – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	07	IND		F1B	81.9	140	Datawell-buoy "Waverider" – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	07	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	07	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	0846	03	07	G		F1B	81.9	140	Datawell-buoy "Waverider" – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	07	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	07	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	07	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	07	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	vt	dly	07	D		QRM			1.8 - 50 MHz strong QRM by a neighbouring LED lamp - since 2 1/2 years - "many thanks" to German "PTT" Eschborn 

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1850	0130 to 0245	09	07	E or MM		USB	Spanish fishermen. Good signals
IRTS	1950	2114	30	07			USB	2 Spanish fishermen.
IRTS	3550	0550	11	07	F		AM	French HAMs violating the band plan.
IRTS	3640	1145	20	07	POR or MM		USB	2 Portuguese fishermen. Strong signals and loud motor noise from both ships.
IRTS	3643.5	0550	17	07	F or MM		USB	Group of French fishermen. Loud motor noise from one of the ships.
IRTS	3650	1831	14	07	POR or MM		USB	2 Portuguese fishermen.
IRTS	3756	1140	20	07	HOL or		USB	2 Dutch fishermen. Weak signals.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
					MM			
IRTS	5315	0030	07	07	RUS		FMOP	Radar from 5315 to 5365 KHz wiping out all signals in the 5 MHz international HAM allocation.
IRTS	5329	1330 to 1350	28	07	E or MM		USB	2 Spanish fishermen. Splattering onto the Irish spot frequency of 5330.5 KHz.
IRTS	5330	0745	06	07	F or MM		USB	French fishermen just 500 Hz besides an Irish spot frequency.
IRTS	5350	1010	14	07	E or MM		USB	2 Spanish fishermen, splattering into the 5 MHz HAM allocation.
IRTS	5400	0910	05	07	E or MM		USB	Spanish fishermen on an Irish spot frequency.
IRTS	6005	0940	11	07	POR or MM		USB	Portuguese fishermen in the 49 m broadcasting band. After a short talk they switched over to 4040 KHz. Transmission stopped at 1030z.
IRTS	7050	2000	04	07	UKR /RUS		LSB	Ukrainian-Russian radio war. Nearly daily.
IRTS	7055	1730	04	07	UKR /RUS		LSB	Ukrainian-Russian radio war. Nearly daily.
IRTS	7060	0400	26	07	MRC or MM		USB	2 Moroccan fishermen.
IRTS	7088	1135	20	07			Digital	Strong digital signal from 7088 to 7094 KHz. Also heard 21 st at 0712. 23 rd at 1410.27 th at 0630.
IRTS	7089.8	1230	20	07	MM		PSK8A	Ship between ALG and Sardinia using Link 11 system. Still on 21 st at 1300.
IRTS	7101.7	2220	05	07	MM		F1B	NATO ship in the English Channel. Still on at 0715z on the 7 th of July.
IRTS	7120	0430	11	07	SOM		AM	Radio Hargeisa. Daily in the early morning. Strong.
IRTS	7140	1350	13	07			Digital	Strong digital signal from 7139 to 7149 KHz.
IRTS	7140	0355	26	07	ERI		AM	Radio Eritrea. Strong. Daily in the early morning.
IRTS	7168	1045	11	07			F1B	Strong signal. Still on at 1230z. Gone by 1600z.
IRTS	7169	1715	26	07			Digital	Strong digital signal. Still on at 1815z.
IRTS	7180	0415	07	07	ERI		AM	Radio Eritrea. Daily early in the morning.
IRTS	7177.8	1815	26	07			Digital	Strong digital signal. Still on at 1815z.
IRTS	7186	0120	11	07	RUS		BPSK	RUS military Sveromorsk. Heard non-stop until 13th of July 1000z.
IRTS	7200	1830	26	07			Digital	Strong digital signal.
IRTS	10101	0825	16	07	MRC or MM		USB	2 Moroccan fishermen.
IRTS	10120	0901 to 0910	19	07	E or MM		USB	2 Spanish fishermen talking about Casablanca.
IRTS	10122	1650	13	07	E or MM		USB	2 Spanish fishermen. Strong signals. Motor noise from both ships. Chat ends at 1735z, but goes on and off until 1845z.
IRTS	10122	1130	16	07	E or MM		USB	2 Spanish fishermen. One is named Jose.
IRTS	10121.5	1050	13	07	MRC or MM		USB	2 Moroccan fishermen.
IRTS	10132	0940	04	07	F		USB	French Hams in SSB violating the band plan.
IRTS	10140	0750	18	07	NW Africa or MM		USB	2 men using a NW African dialect chatting. Strong.
IRTS	10140	1905 to 1932	19	07	MRC or MM		USB	2 Moroccan fishermen
IRTS	10140	0840	20	07	MRC or MM		USB	2 Moroccan fishermen. Again heard 1100 and 1300z
IRTS	10141	1445	21	07			FMCW	Radar from 10141 to 10165 KHz.
IRTS	14116	0930	31	07			Digital	Strong digital signal.
IRTS	14158	1115	20	07			Digital	Strong digital signal from 14158 to 14163 KHz.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	14192	0730	02	07	RUS		F1B	RUS navy Kaliningrad. Daily all daylight hours. Strong.
IRTS	14200	0950	04	07			Digital	Huge digital signal from 14200 to 14204 KHz.
IRTS	14221	0630	03	07	KGZ		F1B	Bishkek. Nearly daily in the early morning.
IRTS	14240	0935	31	07			Digital	Strong digital signal.
IRTS	14280	1642	03	07			FMCW	Radar from 14280 to 14314 KHz. Very strong.
IRTS	14283	1253	20	07			USB	Tickling sound. One tick per second.
IRTS	14314	0000	19	07			USB	Tickling sound. One tick per second. Signal stops exactly at 0002z.
IRTS	14349	2043	11	07				Tickling sound. One tick a minute. Stopped exactly at 2045z.
IRTS	18080	0645	06	07	TWN		AM	Voice Of Hope, Taipei, Taiwan. Nearly daily audible early in the morning. Not too strong.
IRTS	18146	0730	22	07			USB	Tickling sound with one tick per minute.
IRTS	18152	1341	29	07			USB	Tickling sound with one tick per minute.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3524,0	1650	31	7			F1B	250	
MRASZ	3599,0	1844	23	7			A1A		"SLChCG MCCUÛ ÜBUÛQ"
MRASZ	3599,0	1735	25	7			A1A		"3EB2 de M89R" RK "IYN3 de M89R" K
MRASZ	7000,0	1730	21	7			PSK2		AT3004D
MRASZ	7008,0	1858	20	7			F1B	250	
MRASZ	7033,9	1752	31	7			N0N		
MRASZ	7034,0	1650	31	7			F1B	250	
MRASZ	7036,0	1801	31	7			PSK2		AT3004D
MRASZ	7050,0	1858	18	7			LSB		political propaganda
MRASZ	7055,0	1917	9	7			LSB		chaos, as usual
MRASZ	7055,0	1650	16	7			LSB		political propaganda
MRASZ	7055,0	0914	19	7			LSB		propaganda
MRASZ	7055,0	1634	20	7			LSB		music and propaganda
MRASZ	7055,0	1833	23	7			LSB		chaos, as usual
MRASZ	7055,0	0803	26	7			LSB		music
MRASZ	7055,0	1153	27	7			F1B	250	
MRASZ	7055,0	1723	31	7			LSB		music
MRASZ	7120,0	1906	9	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1750	10	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1857	18	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1655	20	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1725	21	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1834	23	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1729	25	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1612	29	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1913	30	7	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1648	31	7	SOM		A3E		R. Hargaysa,
MRASZ	7140,0	1750	10	7	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1655	20	7	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1724	21	7	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1730	25	7	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1613	29	7	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1648	31	7	ERI		A3E		R. Eritrea,
MRASZ	7144,0	0924	28	7			LSB		deliberate disturbance with A1A sigs
MRASZ	7200,0	0759	26	7			PSK2		AT3004D
MRASZ	7200,0	1154	27	7			PSK2		AT3004D
MRASZ	10114,8	0722	20	7			F1B	1000	
MRASZ	10120,0	1632	20	7			PSK2		AT3004D
MRASZ	10128,0	1328	13	7			F1B	800	
MRASZ	10130,0	0917	19	7			F1B	500	
MRASZ	10130,0	1154	27	7			F1B	800	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	10133,0	0916	19	7			PSK2		AT3004D
MRASZ	14001,0	918	19	7			OTHR		14000-14002 kHz
MRASZ	14110,0	1157	27	7			F1B	500	
MRASZ	14192,0	1636	20	7	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	1836	23	7	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	18090,0	0742	20	7			OTHR		18075-18105 kHz; 50 Hz

OEVSV – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh /Bw	DETAILS
R.E.F.									July 2018
	7090	0810	27	7			Data	3kHz	Stanag ? data hour long S4 6short pulse, 1 long.
	10100	0800	12	7			usb	3kHz	Non ham ,unidentified language very week S3
	10121	1631	12	7			usb	3kHz	Non ham ,unidentified language very week S4
	10140	0810	09	7			usb	3kHz	Non Ham trafic in Spanish Fisherman ? S9 in center of France
	10140	0752	12	7			usb	3kHz	Non ham ,unidentified language very week S5 Dutch ?
	10147	0808	12	7			Cw		2 dot per sec S5

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	09.55	03	07	POR		J3E-U			Portuguese fishery SSB net
REP	3515	21.01	09	07			J3E-U			Unid language SSB net
REP	3520	20.16	19	07	E		J3E-U			Spanish fishery SSB net with CRY2001 scrambler
REP	3527	20.50	26	07	RUS		F1B	50	200	Russian mil - Murmansk
REP	3530	20.00	02	07	E		J3E-U			Spanish fishery
REP	3535	07.10	26	07	E		J3E-U			Spanish fishery SSB net
REP	3540	20.15	19	07	E		J3E-U			Spanish fishery SSB net
REP	3544	10.39	27	07	F		J3E-U			French fishery SSB net
REP	3545	20.44	26	07	F		J3E-U			French fishery SSB net
REP	3550	23.10	11	07	ISR		PSK4/8	2400		Israel PSK4/8 modem
REP	3550	07.06	26	07	POR		J3E-U			Portuguese fishery SSB net
REP	3560	21.31	26	07	E		J3E-U			Spanish fishery SSB Net, TdoA Bay of Biscay
REP	3575	07.12	10	07	E		J3E-U			Spanish fishery SSB net
REP	3575	20.28	26	07			J3E-U			Unid lang. SSB net disturbing FT8 ops
REP	3585	07.22	10	07	E		J3E-U			Spanish fishery SSB net with CRY2001 scrambler
REP	3585	10.47	30	07			J3E-U			Unid language fishery SSB net, singing
REP	3636	07.13	09	07	E		J3E-U			Spanish fishery SSB net
REP	3637	21.11	16	07			J3E-U			Unid ops, fishery, lots of whistling
REP	3650	23.55	01	07	RUS		FSK	75	250	mil T-600 modem
REP	3651	10.38	30	07	F		J3E-U			French fishery SSB net
REP	3655	23.12	07	07	E		J3E-U			Spanish fishery
REP	3715	07.11	10	07			J3E-U			Unid language fishery SSB net
REP	3737	07.01	09	07	F		J3E-U			French fishery SSB net
REP	3738	06.59	09	07	F		J3E-U			French fishery SSB net
REP	3777	21.29	09	07	ARS		FSK8			Saudi Defense Network ALE "JCU" call "RFU"
REP	5355	14.00	04	07	E		FSK8			ALE Spanish Guardia Civil
REP	6999	21.40	26	07	B		J3E-U			Brazilian village radio, YL ops

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7000	21.59	09	07			J3E-U			Unid arabic language SSB net, daily
REP	7000	19.31	26	07			J3EU/PSK			Unid language comms w/PSK bursts
REP	7001	09.59	06	07			J3E-U			Unid arabic language SSB net, daily
REP	7005	16.27	13	07			J3E-L			Intruders (Amateurs ???)
REP	7007	20.52	19	07	MRC		J3E-U			Morrocan fishery, arabic-french language
REP	7009	11.33	27	07	IRL		J3E-U			Fishermen long talks
REP	7009	10.10	31	07	IRL		J3E-U			Northern Ireland fishery, lost of whistling, singing
REP	7010	09.24	06	07			J3E-U			Unid arabic-like SSB net, ALE 92xxxx net
REP	7010	09.26	06	07			FSK8			Unid ALE Net 92xxxx, every / all day
REP	7011	10.11	31	07			F1B			Unid sellcall Factor 1
REP	7020	20.26	31	07			J3E-U			Spanish language fishery, S/C American accents
REP	7028	20.02	26	07	I		J3E-U			Italian fishery SSB net, land based YL
REP	7030	10.54	30	07			J3E-U			Arabic language fishery SSB net
REP	7039	22.34	15	07	RUS	F	A1A			mil Beacon - Vldivostok
REP	7039	23.43	19	07	RUS	M	A1A			mil Beacon - Magadan
REP	7045	19.08	21	07			FSK8			Unid 92xxx net sounding
REP	7045	21.13	19	07			FSK8			Unid ALE Net 92xxxx, also 7010.0kHz
REP	7055	21.16	14	07			BPSK	2400		Panther/Racal ss modem
REP	7055	21.02	16	07	RUS		J3E-L			Russia/Ukraine propaganda, daily
REP	7075	20.30	20	07			FSK8	2400		Unid ALE net 2201
REP	7088	21.06	16	07	TUR		PSK8			Link-11 Turkish Navy TdoA Med. sea
REP	7090	21.24	24	07	E		J3E-U			Spanish fishery, Galician dialect
REP	7107	09.18	06	07			F1B	75	850	NATO Stanag 4481 encrypted
REP	7120	17.45	09	07	SOM		8k00 A3EGN			Radio Hargeisa
REP	7170	21.05	22	07	RUS		F1B	75	240	CIS50-50 encrypted
REP	7180	15.38	01	07	ETH		6k00 A3EGN			Radio Eritrea
REP	7186	21.29	09	07	RUS		PSK	120	3k	AT3004D Russian military
REP	10140	18.36	19	07	MRC		J3E-U			Morrocan fishery, daily
REP	14169	0901	23	07	RUS		F1B	50	200	CIS36-50 Navy, TdoA Caspian Sea
REP	14240	17.30	16	07			F1B	75	250	Encrypted rtty
REP	14260	17.50	16	07	RUS		F1B	50	250	CIS 50
REP	28065	10.07	16	07	F		F3E			French CB pirates
REP	28120	12.10	12	07	E		F1B	50	200	Enagal buoy
REP	28165	13.00	26	07	RUS		F3E			Russian taxi dispatcher
REP	28850	12.11	07	07	IRN		AM pulses			OTH radar 300sps
REP	29145	11.21	10	07	RUS		F3E			Taxi dispatcher
REP	29175	11.44	10	07	RUS		F3E			Taxi dispatch
REP	29186	11.01	10	07	RUS		F3E			Taxi dispatcher
REP	29250	11.02	08	07			F1B	82	120	Datawell buoy

RSGB - Great Britain – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	3628.0	1517	03	07			J3E		2K70-E	USB 2628.0 / fishery
RSGB	7000.0	1926	13	07			J7D		2K70-E	USB 6998.0 / MS5
RSGB	7009.0	1923 2043	13 24	07			J7D		2K70-E	USB 7007.0 / MS5
RSGB	7035.0	2226	13	07			J7D		2K70-E	USB 7033.0 / MS5
RSGB	7038.5	ady	dly	07	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7057.0	0715	13	07			J7D		2K70-E	USB 7055.0 / MS5
RSGB	7089.8	vt	16,17, 20-23	07			G1D		3K00-E	USB 7088.0 / Link 11 SLEW. West Mediterranean.
RSGB	7101.7	vt	05-07	07	G		F1B	75	850	STANAG 4481. Ceased at 071312z following action by Baldock.
RSGB	7120.0	1500- 1900	dly	07	SOM		A3E			BC. Radio Hargeysa
RSGB	7131.378	1740	18	07						Carrier with weak sidebands
RSGB	7140.0	2102	12-14	07			J7D		2K70-E	USB 7138.0 / MS5
RSGB	7140.0	vt	vd	07	ERI	VoBM 1	A3E			BC.
RSGB	7160.8	2210	22,23	07			G1D, B7D, J7D			USB 7159.0 / Link 11 SLEW. Also in SSB/ISB CLEW mode at times. Ceased at 230216z.
RSGB	7168.0	1933	24	07			F1B		~200	TDoA: approx 44° N, 45° E.
RSGB	7169.0	0805	23	07	RUS		F1B		240	Ceased at 0819.
RSGB	7169.0	1715	26	07	RUS		J7D		2K70-E	USB 7167.0 / MS5. Ceased at 1815

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	7171.0	0742	23	07	RUS		J7D		2K70-E	USB 7169.0 / MS5. Ceased at 0804
RSGB	7178.0	1715	26	07	RUS		J7D		2K70-E	USB 7176.0 / MS5. Ceased at 1815
RSGB	7186.0	vt	09-14, 17	07			J7D		2K70-E	USB 7184.0 / MS5
RSGB	7200.0	vt	24-27	07	RUS		J7D		2K70-E	USB 7198.0 / MS5
RSGB	10100.8	ady	dly	07	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	18150.0	0830	09	07			F1B		1000	2nd harmonic 9075. Ceased at 0832.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000.0	1850	13	7		UiMUX	PSK2	120	2600	
SRAL	7001.0	0910- 0917/	31	7		uiMUX	PSK2	120	2600	
SRAL	7006.5	1130	1	7		UiPTR	F1B		250	
SRAL	7008.0	0545- 1428/	18 21	7	RUS	UiPTR	F1B		250	
SRAL	7008.5	'0930	1	7		UiMUX	PSK2	120	2600	
SRAL	7009.0	0815- 1850	12 16	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7016.0	0800- 1530	1 6	7	RUS	UiPTR	F1B		250	
SRAL	7018.0	0630- 0702/	5	7		UiMUX	PSK2	120	2600	
SRAL	7020.0	0930- 0945/	9	7		UiPTR	F1B		250	
SRAL	7021.0	'0925	25	7		UiMUX	PSK2	120	2600	
SRAL	7025.0	0520- 1700	*	7		UiPTR	F1B		200	Days: 1. - 9.
SRAL	7034.0	1630- 1720	4	7		UiPTR	F1B		250	
SRAL	7036.0	1845	4	7		UiMUX	PSK2	120	2600	
SRAL	7037.0	1800- 1805/	23	7		UiMUX	PSK2	120	2600	
SRAL	7055.0	1050- 1620	*	7		UiPTR	F1B/ N0N		250	Days: 5. 16. 27.
SRAL	7057.0	0230- 1145	5 13	7		UiMUX	PSK2	120	2600	
SRAL	7076.0	0645- 1215	12 22	7		UiPTR	F1B			
SRAL	7079.0	1150- 1235	22	7		UiPTR	F1B			
SRAL	7088.0	0200- 1930	4 5	7		UiPTR	F1B		200	
SRAL	7099.0	1710- 1715/	10	7		UiPTR	F1B		250	
SRAL	7101.7	0530- 1310	6 7	7	G	UiStanag	F1B		850	
SRAL	7110.0	1625- 1627/	31	7	RUS	UiPTR	F1B		200	
SRAL	7112.0	0930- 0952/	16	7	RUS	UiMUX	PSK2	120	2600	Ends with F1B on 7110, 250 Hz
SRAL	7120,0	0330- 0500	*	7	SOM	R.Hargeis a	A3E			Days: 2. - 31.
SRAL	7120,0	1330- 2005/	*	7	SOM	R.Hargeis a	A3E			Days: 2. - 31.
SRAL	7122.0	'0940	11	7		UiPTR	F1B		250	
SRAL	7122.0	1500- 1556/	21	7		UiMUX	PSK2	120	2600	
SRAL	7140,0	0330- 0610	dly	7	ERI	VoBME	A3E			
SRAL	7140,0	1400- 1835/	dly	7	ERI	VoBME	A3E			
SRAL	7140.0	0500- 1900	13 14	7	RUS	UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7150.0	1240	14	7		UiMUX	PSK2	120	2600	
SRAL	7157.72	0540-0625/	31	7		UiCarr	N0N			
SRAL	7158.0	1615-1845	12	7		UiPTR	F1B/ N0N		250	
SRAL	7167.0	0930-1615	11 13	7	RUS	UiPTR	F1B		250	
SRAL	7168.0	0200-0300	9	7		UiPTR	F1B		250	
SRAL	7169.0	1700-1738/	10 12	1		UiPTR	F1B		250	
SRAL	7169.0	0405-0820	23	7	RUS	UiPTR	F1B/ N0N		250	
SRAL	7169.0	1720-1800/	26	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7172.0	0715-1820/	21	7		UiMUX	PSK2	120	2600	
SRAL	7178.0	1720-1820/	26	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7178.5	1000-1120	18	7		5VZ8	A1A			5F
SRAL	7180.0	0400-0610	*	7	ERI	VoBME	A3E			Days: 1. - 7.
SRAL	7180.0	1330-1835/	*	7	ERI	VoBME	A3E			Days: 1. - 7.
SRAL	7181.9	0400-0840/	6 25	7	RUS	UiPTR	F1B/ N0N		250	
SRAL	7186.0	h24	*	7	RUS	UiMUX	PSK2	120	2600	Days: 9. - 18.
SRAL	7200.0	0545-1930	*	7	RUS	UiMUX	PSK2	120	2600	Days: 2. 24. - 27.
SRAL	10 MHz			7	RUS	29B6	FMCW			25/50Hz ,15 kHz (WebSDR 5d)
SRAL	14003.4	'0750	8	7		UiLINK	?			
SRAL	14005.0	'0330	28	7		UiPTR	F1B			
SRAL	14006.0	'0840	30	7		UiMUX	PSK2	120	2600	
SRAL	14008.0	0845-1200	*	7	RUS	UiPTR	F1B/ N0N		250	Days: 2. 5. 8. 22. 29. 30.
SRAL	14108.0	0730-1230	*	7		MNOP etc.	A1A			Days: 1. 5. 6. 7. 14. 15. 28. 29. 31. 5BL, 5F
SRAL	14116.0	0605-1245	13 14	7	RUS	UiPTR	F1B		200	
SRAL	14118.0	1100-1130	23	7		UiMUX	PSK2	120	2600	
SRAL	14118.0	'0755	29	7		UiCW	A1A			
SRAL	14160.0	1455	6	7		UiPTR	F1B		200	
SRAL	14169.0	0820-0836/	30	7	RUS	UiPTR	F1B		200	
SRAL	14171.0	'0800	9	7		UiMUX	PSK2	120	2600	
SRAL	14192.0	0530-1400	*	7	RUS	UiPTR	F1B		200	Days: 1. 5. 6. 7. 14. 15. 21. 22. 23. 28. 29.
SRAL	14204.0	'0600	13	7		UiCW	A1A			5BL
SRAL	14221.0	0115-0600/	dly	7	KGZ	UiPTR	F1B		200	
SRAL	18 MHz			7	CYP/ TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 5d)
SRAL	21 MHz			7	CYP/ TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 4d)
SRAL	21438.0	0830-1300	*	7	RUS	RCV	A1A			Days: 1. 7. 14. 15. 22. 28. 29.
SRAL	24 MHz			7		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz	0800-1100	5	7	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz. jumping
SRAL	28860.0	0510-1830	*	7	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz. Days: 1. 5. 6. 9. 12. 15. 16. 20. - 25. 27. 28. 29. 31.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	28 MHz			7		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz	0530-1440	*	7	RUS	Taxi disp.	F3E			Days: 5. 6. 12. 17. 21. 22. 25. 27. 28. 81 reports

URE – Spain – EB1TR (Fabian) – EA6AMM (Gaspar)

<u>SOC</u>	<u>kHz</u>	<u>UTC</u>	<u>DD</u>	<u>M</u>	<u>ITU</u>	<u>IDENT</u>	<u>MODE</u>	<u>BD</u>	<u>SH</u>	<u>DETAILS</u>
URE	7016	14:34	11	7	RUS		F1B	100	250	Moscow.
URE	7032	16:01	11	7			F1B			
URE	7032,2	5:50	17	7	RUS					Pulsing carrier and spurious – 7032.172 – Sevastopol.
URE	7036	18:13	7	7			PSK2A	120	2600	AT3004D
URE	7051,6	6:40	4	7						HC-265 Voice Scrambler.
URE	7055	VT	VD	7	RUS/UKR		J3E			Relayed BC.
URE	7057	7:37	13	7	RUS		PSK2A	120	2600	
URE	7088	6:30	5	7	RUS		F1B	75	200	
URE	7089.8	10:45	20	7			PSK8A	2400	2400	Link11-SLEW.
URE	7101,7	21:03	5	7			F1B	700	850	STANAG 4481 NATO MIL KG84 Secure First copy: 5 July 2018 21:04 UTC
URE	7122	6:12	23				PSK2A	120	2600	AT3004D.
URE	7131,3	17:20	18	7	RUS		Unid			Sevastopol, Crimea.
URE	7140	21:50	12	7	RUS		PSK2A	120	2600	AT3004D St Petersbourg, RUS.
URE	7167	10:53	11	7	RUS		F1B	75	250	Kaliningrad.
URE	7167	9:14	13	7			F1B		250	
URE	7169	17:25	26	7			PSK2A	120	2600	AT3004D.
URE	7176	9:15	13	7	RUS		F1B	75	250	Kaliningrad.
URE	7177,8	17:36	26	7			PSK2A	120	2600	AT3004D.
URE	7186	6:33	9VD	7	RUS		PSK2A	120	2600	AT3004D. Severomorsk. Started July 9. Various days.
URE	7200	6:59	26	7	RUS		PSK2A	120	2600	AT3004D Kaliningrad.
URE	10108	VT	VD	7	RUS		F1B	50	200	CIS 50-50 Moscow.
URE	10110	17:27	10	7			J3E			2 Unid persons talking.
URE	10113	15:50	6	7			A3E+USB	-	~4K	Numbers station. Unid person sending series of 5 numbers . English lang. Audio: https://bit.ly/2zg2zJ1
URE	10114,3	18:53	9	7			PSK2A	120	2600	AT3004D.
URE	10114,8	6:52	3	7	RUS		F1B	100	1000	CIS14 Moscow.
URE	10118	5:40	VD	VT	RUS		F1B	75	250	South of Moscow.
URE	10119,8	5:39	18	7			PSK2A	120	2600	AT3004D.
URE	10121,6	16:30	12	7			J3E			2 unid persons talking. Also on 31/7 at 18:00.
URE	10122	16:35	12	7			FSK		200	Factor 1 encrypted mode.
URE	10126	9:34	2	7			PSK2A	120	2600	AT3004D.
URE	10126	21:19	7	7			PSK2A	120	2600	AT3004D.

<u>SOC</u>	<u>kHz</u>	<u>UTC</u>	<u>DD</u>	<u>M</u>	<u>ITU</u>	<u>IDENT</u>	<u>MODE</u>	<u>BD</u>	<u>SH</u>	<u>DETAILS</u>
URE	10130	6:57	12	7			F1B		700	
URE	10130	5:44	17	7			F1B		500	
URE	10131	9:29	6				F1B		250	
URE	10131	9:25	13	7			F1B		200	
URE	10133	8:32	6	7			PSK2A	120	2600	AT3004D.
URE	10133	13:24	7	7			PSK2A	120	2600	AT3004D.
URE	10140,1	8:11	13	7			J3E			2 Unid persons talking (Reported by F5MIU, Francis).
URE	10144	19:10	6	7	D	DK0WCY	A1A			DK0WCY Aurora Beacon (<i>JFYI, legal</i>).
URE	10145	22:18	2	7						OTH Radar. Long range mode 7 sweeps / sec. Bursts. 10145 to 10155 KHz.
URE	10145	19:50	6	7						OTH Radar long range mode. 7 sweeps per second. 10145 to 10155 KHz.
URE	14007,6	17:34	9	7			J3E			2 Unid persons talking.
URE	14008	9:52	1	7	RUS		F1B		250	Moscow.
URE	14008	15:33	9	7	RUS		F1B		250	Moscow. Also on 23 July.
URE	14008	8:50	12	7	RUS		F1B	50	250	Moscow.
URE	14018,5	17:45	18	7						Dot every second as time signal. Dot = 20 msc. Same signal but different (random) timing at 14150 KHz.
URE	14048	5:35	17	6			F1B	600	600	DPRK-FSK 600 System.
URE	14048,5	5:32	19	7			F1B	600	600	DPRK-FSK 600 System.
URE	14111,5	7:09	12	7			F1B	600	600	DPRK-FSK 600 System.
URE	14113,5	12:08	6	7			F1B	600	600	DPRK-FSK 600 System.
URE	14113,5	7:18	13	7			F1B	600	600	DPRK-FSK 600 System.
URE	14116	10:47	11/vd	7	RUS		F1B	75	250	Moscow.
URE	14119,5	7:13	5	7			F1B	600	600	DPRK-FSK 600 System.
URE	14160	VT	VD	7			F1B	75	200	Area of Moscow.
URE	14169	8:04	23	7			F1B		200	
URE	14192	VT	VD	7	RUS		F1B	50	200	Kaliningrad.
URE	14221	VT	VD	7	KGZ		F1B	50	200	Kyrgyzstan – Bishkek.
URE	14221,5	7:33	3	7						LINK 11 – CLEW.
URE	14240	06.27	8	7	RUS		F1B	50	250	Tver.
URE	14261	7:35	5	7			OFDM 60	35,6		OFDM 60. RUS MIL. Female voice RUS language sending letters coded message between signal bursts.
URE	14261	9:11	24	7			PSK2A	120	2600	AT3004D.
URE	14305	21:47	5	7						Dot every second as time signal. Dot = 20 msec. Copied on 4 different frequencies at the same time:

<u>SOC</u>	<u>kHz</u>	<u>UTC</u>	<u>DD</u>	<u>M</u>	<u>ITU</u>	<u>IDENT</u>	<u>MODE</u>	<u>BD</u>	<u>SH</u>	<u>DETAILS</u>
										14300, 14305, 14345 and 14350 KHz. Image: https://bit.ly/2LaKuOd
URE	14345	20:58	12	7						Dot every second as time signal. Dot = 20 msec. Copied on 4 different frequencies at the same time: 14345, 14350, 14310, 14315 KHz.
URE	18080	6:58	12	7	TWN		AE3			BC "Sound of Hope", Taiwan.
URE	18150	6:45	9	7	RUS		F1B	100	1000	Harmonic of 9075 Khz (F1B 100 Bd Shift = 500). Kaliningrad.
URE	21000	16:06	7	7			J3E			Two Spanish fishermen talking about boats and weather. Galician language.

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Amateur co-primary, shared with other also primary allocated services!										
USKA	3527.0	2127	02	07			F1B	50	200	almost daily
USKA	3532.0 VFO USB	2133	02	07			DQPSK	14x75	2k7	LINK 11 CLEW; ESB Mode often
USKA	3549.0 VFO USB	2124	02	07			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing almost daily
USKA	3553.8	2122	02	07			G1D PSK8	2400	2k4	STANAG 4285 daily
USKA	3736.5	2119	02	07			J7D	12x120	2k7	BPSK; CIS12
USKA	3743.0 VFO LSB	2132	19	07			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3744.5 VFO USB	2208	30	07			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3772.0	2127	19	07			J7D	12x120	2k7	BPSK; CIS12
USKA	6999.0	0901	31	07			J7D	12x120	2k7	BPSK; CIS12; partially in 40m band
USKA	7001.0	0857	31	07			OFDM	26.66.	~2k7	spacing 31.28Hz
USKA	7008.0	0741	13	07			F1B		250	idling
USKA	7008.0	0744	13	07			F1A		250	
USKA	7010.0	0644	10	07		920001	MFSK8	125	1750	ALE, MIL 188-141A often various ID's
USKA	7018.0	1405	04	07			J7D	12x120	2k7	BPSK; CIS12
USKA	7036.0	1848	31	07			J7D	12x120	2k7	BPSK; CIS12
USKA	7055.0	1153	05	07	RUS		F1B	75	250	
USKA	7057.0	0738	13	07			J7D	12x120	2k7	BPSK; CIS12
USKA	7088.0	1410	04	07			F1B	75	200	
USKA	7088.0 VFO USB	1049 2026	20 29	07			PSK8	2400	2k7	LINK 11 SLEW
USKA	7101.7	2233	05	07	G		F1B	75	850	STANAG 4481 FSK KG84C encrypted Southwest UK (nähe Plymouth)
USKA	7113.0	1404	04	07			J7D	12x120	2k7	BPSK; CIS12
USKA	7120.0	1628	07	07	SOM		A3E			BC; Radio Hargaysa almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7122.8	2221	09	07	AUS	var	F1B	100	170	CODAN Selcall
USKA	7140.0	0737	13	07			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7140.0	1718	27	07	ERI		A3E		~ 9k	BC often
USKA	7152.5	0948	04	07			F1B	75	250	
USKA	7167.0	0814	13	07			F1B	50	250	
USKA	7180.0	1433	05	07	ERI		A3E		~ 9k	often
USKA	7186.0	1353	09	07			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7197.0	1941	30	07	TUR	306023	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1946	30	07	TUR	351018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1948	30	07	TUR	328013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1958	30	07	TUR	314018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2000	30	07	TUR	343013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2009	30	07	TUR	381018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2015	30	07	TUR	319013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2024	30	07	TUR	306013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2028	30	07	TUR	324013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2053	30	07	TUR	348018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7200.0	0717	26	07			J7D	12x120	2k7	BPSK; CIS12
USKA	14006.0	0835	30	07			J7D	12x120	2k7	BPSK; CIS12
USKA	14008.0	0838	30	07			F1B	50	250	
USKA	14109.5	1443	30	07			F1B	600	600	ARQ often
USKA	14116.0	0733	13	07			F1B	75	200	often
USKA	14116.0	0912	14	07			F1B	75	250	
USKA	14169.0	0851	23	07			F1B	50	200	
USKA	14171.0	0831	23	07			J7D	12x120	2k7	BPSK; CIS12
USKA	14192.0	0658	02	07			F1B	50	200	almost daily
USKA	14204.0	0955	04	07			OFDM60	35.55	~2k7	spacing 44.44Hz
USKA	14221.0	2114	02	07			F1B	50	200	CIS 50-50 often
USKA	18080.0	0659	02	07	TWN		A3E		~15k	BC; Chinese Sound of Hope almost daily
USKA	21438.0	0856	06	07	RUS	RCV	A1A			lettres + figures often
USKA	28025.12	0922	03	07			F1B	51	300	ENAGAL fishery buoy short bursts only (appx 3s)
USKA	28045.9	0929	03	07		K	A1A			Fishery buoy
USKA	28055.4	0932	03	07		CO	A1A			Fishery buoy
USKA	28111.7	0949	03	07		PI	A1A			Fishery buoy
USKA	28114.7	0947	03	07		EE	A1A			Fishery buoy
USKA	28121.5	0857	03	07		BN	A1A			Fishery buoy
USKA	28274.8	0939	03	07		E	A1A			Fishery buoy
USKA	28285.0	1134	06	07			F3E			Taxi
USKA	28311.5	1008	03	01		DF	A1A			Fishery buoy
USKA	28860.0	0955	03	07			Puls	150 + 313 sps	40k	OTHR, Bursts, various sweep-rates and durations (7.2 and 9.8s)

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	2008	12	7		UiPTR	F1B		Ptr
VERON	10108,0	1323	9	7	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	10108,0	1032	31	7	RUS	8CNP	A1A		A7Z6 DE 8CNP proc
VERON	10131,0	1457	6	7	CIS	UiPtr	F1B	250	S3 QSB
VERON	14008,0	0922	1	7	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14108,0	0956	3	7	CIS	C7J9	A1A		CDYT de C7J9 QBE QYT9 K
VERON	14108,0	0958	3	7	CIS	J7FG	A1A		CDYT de J7FG ZQT ZJV ZVL QYT9
VERON	14108,0	1000	3	7	CIS	C7J9	A1A		ASGW de C7J9 5BL ending 513 K
VERON	14108,0	1010	3	7	CIS	Mi5I	A1A		ASGW de ZOV ZJE ZVZ QYT6 K
VERON	14108,0	0744	7	7	RUS	J7FG	A1A		CDYT DE J7FG ZDO ZDV ZVO QYT6 K
VERON	14108,0	0803	7	7	RUS	Y1CQ	A1A		QTC AR

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14108,0	0810	7	7	RUS	C7J9	A1A		C7J9 513 39 7 1050 513 BT 961 BT MMMMM (etc, 5BL)
VERON	14108,0	0811	7	7	RUS	C7J9	A1A		CDYT DE C7J9 proc
VERON	14108,0	0813	7	7	RUS	C7J9	A1A		ZJOR DE C7J9 proc
VERON	14108,0	0818	7	7	RUS	C7J9	A1A		MIHZ DE C7J9 proc
VERON	14108,0	0823	7	7	RUS	C7J9	A1A		YB4W DE C7J9 proc
VERON	14108,0	0825	7	7	RUS	C7J9	A1A		A17I DE C7J9 proc
VERON	14108,0	1028	31	7	RUS	8CNP	A1A		MIAR DE 8CNP proc
VERON	14108,0	1029	31	7	RUS	8CNP	A1A		HAP5 DE 8CNP proc
VERON	14108,0	1030	31	7	RUS	8CNP	A1A		5KXB DE 8CNP proc
VERON	14108,0	1031	31	7	RUS	8CNP	A1A		GRXO DE 8CNP proc
VERON	14116,0	0900	11	7		UiPTR	F1B		Ptr
VERON	14116,0	0937	11	7	RUS	UiPtr	F1B	200 Hz	Ptr
VERON	14116,0	0914	14	7	RUS	UiPtr	F1B	200 Hz	Ptr
VERON	14118,0	0908	30	7	CIS	UiCW	A1A		5BL ending 118 K
VERON	14118,0	0911	30	7	CIS	BEF9	A1A		BEF9 448 34 30 1205 448 = ZCV 452 = 5BL K
VERON	14118,0	0917	30	7	CIS	BEF9	A1A		BEF9 249 28 30 1210 247 = Z.. 452 = 5BL k
VERON	14118,0	0923	30	7	CIS	BEF9	A1A		7QNP de BEF9 K R K
VERON	14160,0	0902	11	7		UiPTR	F1B		Ptr
VERON	14160,0	0941	11	7	RUS	UiPtr	F1B	200 Hz	Ptr
VERON	14167,0	0945	14	7		UiPTR	F1B		Revs
VERON	14169,0	0855	23	7		UiPTR	F1B		Ptr
VERON	14192,0	0936	10	7	CIS	UiPTR	F1B		Revs/Ptr also 12/7 09.12 UTC also 14/7 09.23 K
VERON	21438,0	0850	12	7	RUS	RCV	A1A		RGX94 DE RCV QTC 839 76 12 0940 839 BT NAWUP etc
VERON	24921.0	1430	6	7	PRK?	UiMux	PSK12	900	S3

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

All our friends and contributors worldwide!

Many thanks for your interest!

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