



Monitoring System

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The monthly newsletter for Region 1

February 2016

The 29 members of the IARUMS Region 1 Monitoring Team:



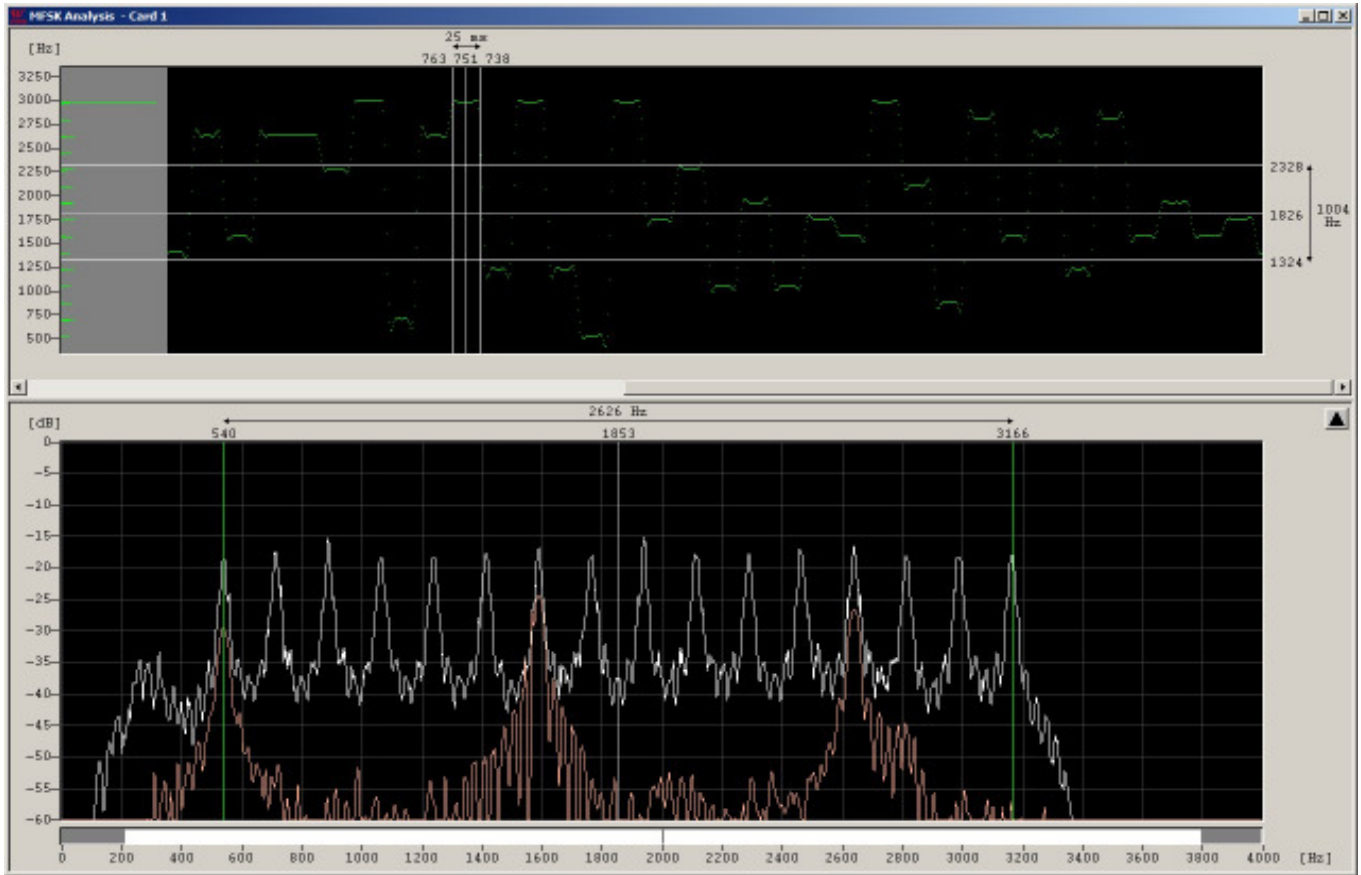
Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Aмос ++ 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: M0VRR - Vaughan ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON8IM – Ivan +++ URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1 ++ PTTs: BAKOM (Swiss), BNetzA Konstanz (Germany) ++ OFCOM (UK) ++ Dutch AT ++ YO9RIJ – Petrica

Part 1: News and Infos

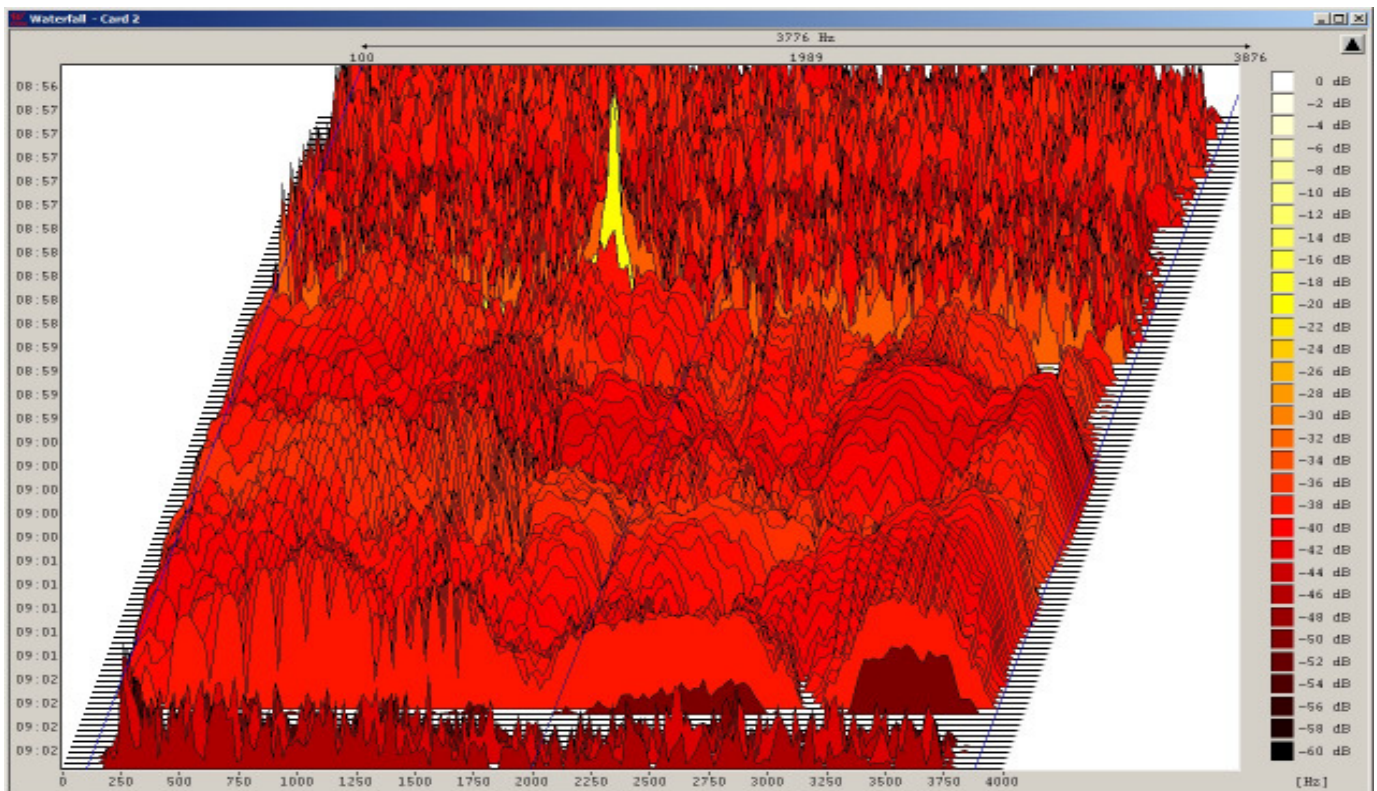
1. MFSK 16 on 10 MHz-band

The 30 m-band is not an exclusive amateur band. Anyway I want to give you examples for “special emissions” on this band. The screenshot shows the MFSK 16 analysis with Wavecom W-Code on Jan. 27th at 0932 utc. You can see the tone length of 25 msec and the bandwidth of 2626 Hz. The Baudrate was 32.9 Bd. Source of emission: Moscow, RUS – purpose unknown

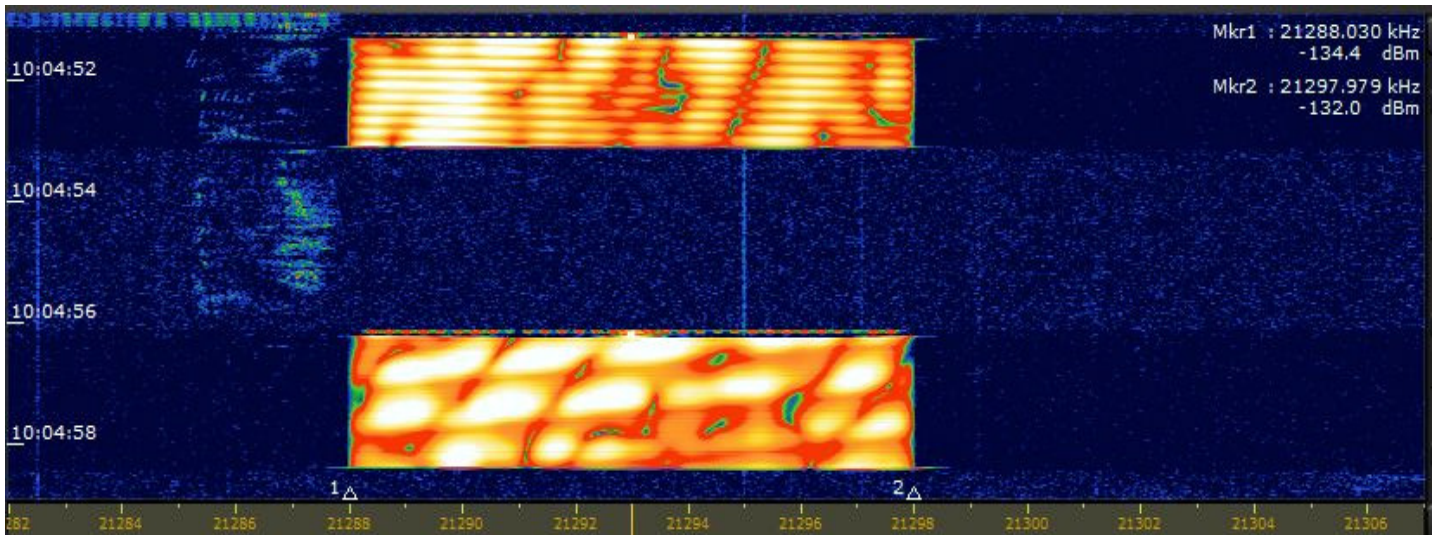


2. Australian OTH radar JORN on 10 MHz

Australian OTH radar JORN with FMCW in burst mode, 19 sps and intro tone (yellow peak). QRG: 10129 kHz
Screenshot: DK2OM with W-Code Waterfall on Feb. 27th at 1350 UTC.



Australian OTH radar JORN (FMCW burst mode) on 21293 kHz with different sweep rates. Intro tones are visible. Screenshot: DK2OM with Perseus



If you need more details about the following informations, please observe the reports from the national coordinators below!

3. Russian military emissions

6998.5 kHz – The “Buzzer” still active, no change.

3500 – 3800 kHz – Russian OTH radar in Makhachkale (Dagestan) in mode FMOP with 43 sps and about 50 kHz wide. Often in the CW-part of the 80 m-band in the evenings. – **Shared band!**

7000 – 7100 kHz OTH radar “Contayner” in Gorodezh in mode FMCW with 50 sps and 13 kHz wide. Often long lasting.

7000 – 7200 kHz digital traffic in FSK or PSK2 (system AT3004D) or PSK4 (AT3104D) – 12 tones and 1 or 2 pilot tones. Also: transmissions in A1A (CW)

10100 – 1150 kHz – digital traffic in FSK or multitone. **Shared band!**

14000 – 14350 kHz– digital traffic in A1A, FSK or PSK (12 tones and pilot tone), OTH radar “Contayner”

18107 kHz – FSK – **Shared band!**

21438 kHz – A1A (CW) – Russian Navy Sevastopol.

4. Other radars – the endless story

7000 – 7200 kHz – Codar like radar from Far East

10100 – 10150 kHz – OTH radars from Cyprus and Australia (JORN) in burstmode – **Shared band!**

18068 – 18168 kHz – OTH radars from Cyprus and Turkey - **Shared band!**

14000 – 14350 kHz – OTH broadband radars from China

21000 – 21450 kHz – OTH radars from Australia (JORN), Cyprus and Turkey – sometimes China

28000 – 29700 kHz – radars from Iran with FMCW and different sweep rates

5. Buoys on 10 m-band

Fishery buoys (A1A = CW), Datawellbuoys “Waverider” and GPS Atlantic buoys as usual.

6. Illegal voice traffic

7000 – 7200 kHz – illegal fishery traffic on USB – mostly Europe

7000 - 7060 kHz – illegal voice traffic from Indonesia on USB and LSB = “village radio”

10100 – 10150 kHz – illegal fishery traffic – Europe and Africa

14000 – 14350 kHz - illegal fishery traffic, Europe, Africa and Brazil

21000 – 21450 kHz - illegal fishery traffic, Europe, Africa and Brazil

7. 80 m-band in Region 3 – shared band – legal traffic!

Many Chinese systems like MIL-188-141A (aka ALE), PRC 30 – weatherfax from Japan and Taiwan

8. Broadcast on 7 MHz

7120 kHz – Radio Hargaysa Somalia – no change

7200 kHz – Radio Taiwan International and Chinese BC-jammer.

9. 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

ARSK MONITORING OVERVIEW FOR FEBRUARY 2016

Radio Hargeisha remained on 7,120 kHz with broadcasts. As usual there were some local or Central African intruders observed on 7,000, 7,074 and 7,075 kHz.

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

ARSK – Kenya – 5Z4NU (Ted)

N.A.

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

DG0JBJ (Mario) observed **23** OTH radars on 40 m, **29** OTH radars on 20 m, **40** OTH radars on 17m, **82** OTH radars on 15 m and **39** OTH radars on 10 m in February 2016. Chinese OTH radars often appeared on the 15, 20, 40 and 80 m-bands.

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	2014	01	02	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	2103	16	02	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1852,0	2013	01	02	RUS		F1B	48.2	250	Moscow
DK2OM	1855,0	2103	16	02	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	2103	16	02	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	2104	16	02	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	2105	16	02	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	2104	16	02	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	vt	vd	02	E		USB			Spanish fishery
DK2OM	3500,0	1828	02	02	E		USB			Spanish fishery
DK2OM	3500,0	---	--	02	F		FMCW		20k	French burst radar, 6 sps, similar Codar sounding, South France
DK2OM	3500,0	1913	02	02	RUS		F1B	75	250	Moscow - space QRG disturbed by a German HAM
DK2OM	3500,0	1707	27	02	TUR		FSK8	125	1750	ALE, “2016” “4017” – Turkish Red Crescent
DK2OM	3500,9	2056	20	02	F		FSK8	125	1750	Thales 3000 – 3499.300 kHz RF - Korsika
DK2OM	3501,0	2116	14	02	UKR		FSK8	125	1750	ALE, “H10” “B10” “I10” “D10” “G10”
DK2OM	3502,0	2045	19	02	UKR		F1B	75	250	area of Dnepropetrovsk

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3502,4	2111	20	02	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3502,6	2018	01	02	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3503,0	1723	25	02	CHN		FSK8	125	1750	ALE, “509”
DK2OM	3503,0	2030	29	02	F		USB			French fishery
DK2OM	3503,5	vt	dly	02	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3504,0	2100	29	02	HOL		USB			Dutch fishery
DK2OM	3507,0	2115	16	02	RUS		PSK2	120	2600	AT3004D – submode idle - Moscow
DK2OM	3512,0	2051	03	02	UKR		PSK2A	120	2600	AT3004D – submode idle and traffic - Khmelnytsky
DK2OM	3514,0	1658	04	02	FEa		FMOP		57k	FEa OTHR – 43 sps – 3514 – 3571 kHz
DK2OM	3519,0	1700	16	02	CHN ?		USB			synthetic female voice spelling Chinese figures
DK2OM	3520,0	2044	03	02	RUS		FMOP		60k	OTH radar – 43 sps - 3520 – 3580 kHz - Makhachkala
DK2OM	3521,0	1913	20	02	CHN		FSK8	125	1750	ALE, “245” “240”
DK2OM	3522,0	1806	21	02	CHN		FSK8	125	1750	ALE, “110” “322” “166” “217”
DK2OM	3522,0	1942	21	02	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic – Black Sea
DK2OM	3523,0	1932	02	02	CHN		FSK8	125	1750	ALE, “677”
DK2OM	3524,0	1751	22	02	CHN		FSK8	125	1750	ALE, “430”
DK2OM	3525,0	1930	03	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3525,0	2145	10	02	HOL		USB			Dutch fishery
DK2OM	3525,0	1746	21	02	CHN		FSK8	125	1750	ALE, “844”
DK2OM	3526,0	2155	17	02	RUS		FMOP			RUS OTH radar – 43 sps – 3526 – 3570 kHz - Makhachkala
DK2OM	3527,0	2210	10	02			F1B	50	200	Severomorsk
DK2OM	3528,0	1753	29	02	CHN		FSK8	125	1750	ALE, “106” “557”
DK2OM	3531,0	---	--	02	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	1915	02	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	2138	04	02	E		USB			Spanish fishery
DK2OM	3535,7	2100	03	02	E		USB			Galician fishery
DK2OM	3540,0	vt	vd	02	E		USB			Spanish fishery – very often
DK2OM	3541,0	1620	10	02	FEa		FMOP		49k	Far East OTHR - 3541 – 3590 kHz – 43 sps
DK2OM	3541,0	1822	26	02	CHN		FSK8	125	1750	ALE, “278” “315”
DK2OM	3542,0	2004	16	02	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Kaliningrad
DK2OM	3550,0	0730	dly	02	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	02	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3551,0	1742	29	02	CHN		FSK8	125	1750	ALE, “301” “695”
DK2OM	3552,0	1829	14	02	CHN		FSK8	125	1750	ALE, “840”
DK2OM	3553,0	1832	21	02	CHN		FSK8	125	1750	ALE, “579” “669”
DK2OM	3553,8	2022	01	02	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3559,0	1657	01	02	RUS		PSK2A	120	2600	AT3104D – St. Peterburg
DK2OM	3562,0	1850	02	02	CHN		FSK8	125	1750	ALE, “604”
DK2OM	3562,0	2010	10	02	RUS		PSK2A	120	2600	AT3004D – Rostov na Donu
DK2OM	3569,0	1516	03	02	CHN		FSK8	125	1750	ALE, “238” “536”
DK2OM	3572,0	2030	08	02	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	3574,5	2119	04	02	RUS		PSK2	120	2600	AT3004D – submode idle - Crimea
DK2OM	3576,6	ady	dly	02	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3578,0	1738	29	02	CHN		FSK8	125	1750	ALE, “301” “355”
DK2OM	3585,0	ady	dly	02	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm,

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										IOC 576, - daily, all day - legal!
DK2OM	3586,0	vt	dly	02	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3587,0	vt	vd	02	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	02	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3593,7	---	--	02	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	2013	01	02	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	02	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	02	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3595,0	vt	dly	02	D		FSK8	125	1750	ALE – German customs
DK2OM	3595,0	1730	01	02	RUS		FMOP		53k	RUS OTH radar – 43 sps 3595 – 3648 kHz – Makhachkala
DK2OM	3595,0	1810	29	02	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	02	D, S, HRV		FSK8	125	1750	ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info!
DK2OM	3596,8	2113	09	02	ALB		PSK4	75	2325	LINK11-CLEW
DK2OM	3597,0	1945	01	02	CHN		PSK4	60	2350	PRC 30 tone modem – USB mode – pilot tone 450 Hz
DK2OM	3599,0	2310	17	02	UKR		F1B	150	200	CIS Selcal R-016W - Odessa
DK2OM	3601,0	2310	17	02	UKR		PSK2A	120	2600	AT3004D - Odessa
DK2OM	3617,0	vt	dly	02	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3619,0	1800	03	02	CHN		FSK8	125	1750	ALE, “270” “275”
DK2OM	3622,5	1920	09	02	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3631,0	1622	10	02	FEa		FMOP		51k	Far East OTHR - 3631 – 3682 kHz – 43 sps
DK2OM	3640,0	1920	08	02	G		FSK8	125	1750	ALE, “XSS” - British MIL Tascomm – just for info!
DK2OM	3642,0	ady	dly	02	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3648,0	---	--	02	ARS		FSK8 LSB	125	1750	ALE, “AAF” “AAN”
DK2OM	3649,0	vt	vd	02	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3658,0	vt	vd	02	UZB		A1A			beacon “V” - Tashkent
DK2OM	3662,0	1514	23	02	FEa		FMOP		100k	OTH radar – 43 sps 3662 – 3762 kHz – 2 systems with alternating sweeps
DK2OM	3675,0	1336	19	02	CHN		FSK8	125	1750	ALE, “632” “790” “720”
DK2OM	3712,0	1758	29	02	CHN		FSK8	120	1750	ALE, “106”
DK2OM	3720,0	vt	dly	02	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3727,0	1838	02	02	CHN		PSK4	60	2350	PRC 30 tone modem – LSB mode – pilot tone 450 Hz - daily
DK2OM	3735,0	1803	22	02	CHN		FSK8	125	1750	ALE, “978”
DK2OM	3740,0	2100	19	02	RUS		FMOP		50k	OTH radar – 43 sps – 3740 – 3790 kHz - Makhachkala
DK2OM	3742,0	1752	21	02	CHN		FSK8	125	1750	ALE, “442”
DK2OM	3751,0	ady	dly	02	FEa		A1A			“99 ?? 2T48 ??” - loop
DK2OM	3751,5	vt	dly	02	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3755,0	1617	20	02	CHN		FSK8	125	1750	ALE, “230” “234”
DK2OM	3756,0	1618	14	02	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	02	FEa	RIS9	A1A			“M8JF de RIS9” - loop

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3760,0	1817	26	02	CHN		FSK8	125	1750	ALE, "278" "996" "713" "645" "955"
DK2OM	3761,5	vt	vd	02	POL	no ITU	FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3772,0	ady	dly	02	FEa	A4JC	A1A			"A4JC" - loop
DK2OM	3777,0	1941	07	02	FEa		A1A			"M8JF de RIS9" – loop – dly
DK2OM	3784,0	2115	20	02	RUS		F1B	75	200	Kaliningrad
DK2OM	3791,0	vt	vd	02	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – daily just for info!
DK2OM	3797,0	ady	dly	02	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	3800,0	1621	20	02	CHN		PSK4	60	2350	PRC 30 tone modem – LSB mode – pilot tone 450 Hz - daily
DK2OM	6998,5	vt	vd	02	POL		FSK8 PSK8 USB	125 2400	1750 2400	ALE, "ZE2" "OL1" "GO7" "MA3" and MIL-188-110A – until 7001.500 kHz – Polish MIL
DK2OM	7000,0	0909	03	02	INS		USB LSB			Indonesian pirates – daily – all day - audible in Europe in the evenings
DK2OM	7000,0	ady	dly	02	RUS		H3E		3.4 k	buzzer – 1 sec bursts - 118 Hz AF rough sinus – carrier on 6998.0 + upper sideband - with splatters 10 kHz wide – daily, all day - Moscow
DK2OM	7000,0	vt	dly	02	?	no ITU	FSK8	125	1750	ALE, "210" "20989" "2205" "203"
DK2OM	7000,0	1045	11	02	I		USB			Italian pirates
DK2OM	7000,0	0750	15	02	F		USB			French pirates
DK2OM	7001,5	vt	vd	02	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7005,0	vt	dly	02	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	vt	dly	02	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7014,0	1826	03	02	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	7015,0	vt	dly	02	INS		USB LSB			Indonesian pirates
DK2OM	7017,5	1143	02	02	RUS	REA4	F1B	100	2000	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7018,0	1750	02	02	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	dly	02	INS		USB LSB			Indonesian pirates
DK2OM	7020,0	1651	01	02	ALB		FSK8	125	1750	ALE, "CS004A" "RS008D" "RS0" – Albanian coast - daily
DK2OM	7025,0	vt	dly	02	INS		USB LSB			Indonesian pirates
DK2OM	7027,0	1732	11	02	RUS		FMCW			OTH radar Contayner - 50 sps Gorodezh
DK2OM	7027,5	---	--	02	KAZ	„V“	A1A			beacon "V" - Almaty
DK2OM	7030,0	vt	dly	02	INS		LSB			Indonesian pirates
DK2OM	7035,0	vt	dly	02	INS		USB LSB			Indonesian pirates
DK2OM	7039,0	---	--	02	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "RIW"
DK2OM	7039,1	---	--	02		A	A1A			beacon "A" - loop
DK2OM	7039,3	1706	19	02	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily
DK2OM	7039,4	1516	01	02	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	02	INS		USB			Indonesian pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
							LSB			
DK2OM	7040,0	vt	dly	02	F	F6BAZ	FSK8	125	1750	ALE, "F6BAZ" – just for info
DK2OM	7040,0	ady	dly	02	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	02	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" – just for info
DK2OM	7045,0	vt	dly	02	INS		LSB			Indonesian pirates
DK2OM	7047,37	vt	vd	02	D		FSK8	125	1750	ALE, "DL0NOT" – just for info!
DK2OM	7049,5	vt	vd	02	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	02	INS		USB			Indonesian pirates
DK2OM	7055,5	vt	vd	02	MEa	no ITU	FSK8	125	1750	ALE, "111" "132" "133" - Kaukasus
DK2OM	7060,0	1838	22	02	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	7064,0	2026	08	02	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7070,0	vt	vd	02	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7088,8	1625	22	02	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden — SL0FRO - just for info!
DK2OM	7089,8	1402	23	02	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	---	--	02	KAZ	„V“	A1A			loop – ident "V" – Almaty - Kazakhstan
DK2OM	7092,0	vt	vd	02			FSK8	125	1750	ALE, "3014"
DK2OM	7099,5	vt	dly	02	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX1P" "9A0OS" – daily - just for info!
DK2OM	7102,0	vt	dly	02	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	7102,0	1109	22	02	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, "9A0MIL" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" – just for info!
DK2OM	7110,0	vt	dly	02	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7120,0	vt	dly	02	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7122,0	---	--	02	FEa	V	A1A			loop "V"
DK2OM	7137,0	vt	dly	02	TWN		FSK8 LSB	125	1750	LSB - ALE, "CBIUN" "CBWPC" "CQYTX" "CAPLJ" "CTFOJ" "CEGTO" "CSNYI" - Taiwanese navy – daily
DK2OM	7144,0	1117	22	02	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7144 – 7176 kHz
DK2OM	7148,0	1647	29	02	RUS		PSK2A	120	2600	AT3004D – RUS ship north of Crete Island
DK2OM	7150,0	1945	28	02	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7150 – 7182 kHz
DK2OM	7163,0	---	--	02	UKR		A3E			encrypted MSGs - SZRU in Rivne
DK2OM	7164,0	1820	03	02	RUS		PSK2A	120	2600	AT3004D – Perm
DK2OM	7170,0	1816	15	02	CHN		FSK8	125	1750	ALE, "103" "103"
DK2OM	7183,0	vt	dly	02	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7185,5	vt	vd	02	D HRV		FSK8	125	1750	ALE, "9A5EX" "DK0ESD" just for info - daily
DK2OM	7197,0	vt	dly	02	TUR	no ITU	FSK8	125	1750	ALE, "8241" "206102" "8151" "3021" "3761" "8021" "8141" "3061" "3241" "8411" – Turkish organisations and Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	7200,0	1230	21	02	MMR		A3E			Myanmar Radio – 0930 – 1500 utc

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7200,0	1230	21	02	TWN		A3E			Radio Taiwan Int. – 1000 – 1300 utc
DK2OM	10100,8	ady	dly	02	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	02	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	02	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	vt	dly	02	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	02	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “201” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	02	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10120,2	1950	12	02	MRC		USB			male persons in Arabic voice
DK2OM	10121,0	0950	29	02	RUS		F1B	75	250	Moscow
DK2OM	10121,3	2213	03	02			USB			male persons
DK2OM	10123,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” ”CM2” “ESA” – Algerian Airforce
DK2OM	10129,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10129,0	1350	27	02	AUS		FMCW		10k	OTH burst radar JORN– intro tones -19 sps – 3.4 sec bursts
DK2OM	10130,0	1600	23	02	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	10132,0	1610	23	02	AUS		FMCW		10k	OTH burst radar – intro tones - 20 and 23 sps – 2.9 sec bursts
DK2OM	10136,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10136,0	ady	dly	02	RUS		F1B	50	200	CIS-50-200 - Chita – daily, all day
DK2OM	10140,0	vt	vd	02	CHN ?		FSK8	125	1750	ALE, “205” “201” “LT”
DK2OM	10144,0	ady	dly	02	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	02	SUI	HB9MHB	FSK8	125	1750	ALE, “HBMHB” - just for info - daily
DK2OM	10145,5	1932	20	02	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA”– just for info!
DK2OM	10147,0	0753	11	02	RUS		MFSK		3000	MFSK 2 x 34 tones – Moscow
DK2OM	10149,0	0810	25	02	POR		PSK8	3000		RUS emba Lisbon
DK2OM	14000,0	2020	16	02	B		USB			Brazilian pirates
DK2OM	14000,0	---	--	02	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	0850	10	02	GRC		USB			Greek pirates
DK2OM	14086,0	0855	17	02	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Moscow
DK2OM	14090,0	0820	10	02	RUS		FMCW		13k	OTH radar – RUS OTH radar Contayner - 50 sps - Gorodezh
DK2OM	14100,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “6206” – “6204” - “6202” “6207” “6217” “MTL” “IJJ” – Mauritanian border – daily, all day
DK2OM	14109,0	vt	dly	02	S	HAM	FSK8	125	1750	ALE, “SM3FXL” – just for info!
DK2OM	14109,0	vt	dly	02	RUS	RV3APM	FSK8	120	1750	ALE, “RV3APM” – just for info!
DK2OM	14132,0	1144	08	02	RUS		FMCW		13k	OTH Contayner - 50 sps - Gorodezh
DK2OM	14148,0	0922	02	02	CHN		FMCW		100k	CHN OTHR – 25 sps – 14148 – 14248 kHz
DK2OM	14160,0	vt	dly	02	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14192,0	0936	09	02	RUS		F1B	50 75 500		RUS navy Kaliningrad - daily
DK2OM	14200,0	1027	29	02	RUS		F1B	75	250	St. Peterburg
DK2OM	14205,0	vt	dly	02	CHN ?	no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14221,0	---	--	02	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14223,5	---	--	02	RUS		F1B	600	600	DPRK-FSK 600 - DPRK emba Moscow
DK2OM	14236,5	1120	26	02	RUS		PSK4A	44.44	2750	OFDM 60 - Moscow
DK2OM	14239,0	---	--	02	CHN		PSK4	60	2350	PRC 30 tone modem – LSB mode – LSB QRG – pilot tone 450 Hz
DK2OM	14260,0	vt	dly	02	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14260,9	1100	26	02			PSK4A	44.44	2750	OFDM 60 - Moscow
DK2OM	14265,0	vt	vd	02	TUR	no ITU	FSK8	125	1750	ALE, “526”
DK2OM	14280,0	1005	Wed.	02	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne – every Wednesday at 1005 utc
DK2OM	14287,0	1116	05	02	RUS		FMCW		13k	RUS OTH radar Contayner - 50 sps - Gorodezh
DK2OM	14295,0	vt	dly	02	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,2	ady	dly	02	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14298,0	1635	02	02	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps Gorodezh
DK2OM	14301,8	0930	05	02	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilot tone 450 Hz - RF 14300.0 kHz - China – Shanghai – daily – all day
DK2OM	14330,0	vt	dly	02			FSK8	125	1750	ALE, “BV4”
DK2OM	14334,0	vt	vd	02	CHN	no ITU	FSK8	125	1750	ALE, “249” “255” “763”
DK2OM	14344,0	1103	29	02	RUS		F1B	75	250	north of Krasnoyarsk
DK2OM	14344,7	--	---	02	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	02	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	vt	vd	02	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info – various times, daily
DK2OM	14351,7	ady	dly	02	E		OFDM	30	2700	OFDM 73 + intro tone – experimental transmissions – Las Palmas – just for info!
DK2OM	18075,0	1504	11	02	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18090,0	0810	25	02	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18100,0	0945	17	02	MRC	no ITU	FSK8	125	1750	ALE, “A2” “A5” “A7” “S6” – “C3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	02	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	vt	vd	02	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – Russian navy – various days and times – shared band!
DK2OM	18117,5	vt	vd	02	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18135,0	0950	08	02	CHN		FMCW		20k	Chinese OTH burst radar – 66 sps
DK2OM	18140,0	vt	dly	02	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	vt	dly	02	FEa		USB			Far East pirates - daily
DK2OM	21000,0	vt	vd	02	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – also: 24.09.2015 at 1650 utc
DK2OM	21000,0	---	--	02	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	1159	18	02	CYP		FMCW		20k	OTH radar Cyprus – 25 sps
DK2OM	21002,2	---	--	02	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21090,0	1434	27	02	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21096,0	vt	dly	02	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21131,0	vt	vd	02	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese diplo
DK2OM	21141,0	---	--	02	GEO		PSK8A	2400	2400	Stanag4538 – GEO MIL with AFG - daily
DK2OM	21145,0	vt	dly	02	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” “R3” – various times, daily
DK2OM	21145,8	ady	dly	02	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,75 kHz - not coordinated with IARU
DK2OM	21160,0	---	--	02	RUS		F1B	100	2000	4th from 5290 kHz (500 Hz shift) – St. Peterburg
DK2OM	21190,0	---	--	02	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21278,0	0907	21	02	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21330,0	0920	27	02	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21353,5	---	--	02	GAB		F1B	600 600	600 1200	DPRK-FSK 600 - Libreville DPRK-FSK 1200
DK2OM	21390,0	0910	20	02	TUR		FMCW		20k	OTH radar West Turkey – 50 sps
DK2OM	21400,0	---	--	02	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	---	--	02	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21436,0	---	--	02	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	vt	vd	02	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	02	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	vt	vd	02	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	vd	02	B		A3E			Brazilian CBers – 28000 – 28315 – daily, all day - no change
DK2OM	28000,0	0930	dly	02	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28010,0	0916	12	02	POR		F1B	51	300	F1B bursts –west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	0914	12	02	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	---	--	02	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	---	--	02	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28060,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,2	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										buoys - daily
DK2OM	28065,6	---	--	02	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,2	0943	12	02	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28125,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28135,0	0758	11	02	RUS		F3E			RUS taxi - daily
DK2OM	28146,0	vt	vd	02	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28155,0	1358	12	02	E		F3E			Spanish CBers
DK2OM	28175,0	0935	14	02	RUS		F3E			RUS taxi
DK2OM	28200,0	0945	12	02	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28224,4	---	--	02	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28245,0	1025	09	02	E		A3E			Spanish fishery
DK2OM	28249,6	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,0	0910	06	02	RUS		F3E			RUS taxi – daily - Moscow
DK2OM	28275,1	---	--	02	AF		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	02	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	vt	dly	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28345,1	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28435,0	----	--	02	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	----	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28459,9	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28499,8	---	--	02	MEa		F1B	81.9	140	Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf
DK2OM	28701,1	---	--	02	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,2	---	--	02	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28845,5	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec - Gabon - daily and all day
DK2OM	28900,0	1049	12	02	RUS		FMCW		20k	50 sps - Nishny Novgorod
DK2OM	28901,1	---	--	02	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec - Gabon - daily and all day
DK2OM	28960,0	0830	06	02	IRN		FMCW		40k	OTH radar Iran - 313 sps - 2 and 7 sec bursts
DK2OM	28963,0	0855	07	02	IRN		FMOP		55k	OTH radar Iran - 313 sps - 7 sec bursts
DK2OM	29114,0	---	--	02	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	02	E		F1B	81.9	140	Datawell-buoy "Waverider" - 29249.890 kHz - Fuerteventura - daily, all day
DK2OM	29375,0	---	--	02	I		F1B	81.9	140	Datawell-buoy "Waverider" - 29374.898 kHz - Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	02	IND		F1B	81.9	140	Datawell-buoy "Waverider" - 29387.460 kHz - Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	02	USA		F1B	81.9	140	Datawell-buoy "Waverider" - 29400.070 kHz - USA northeast coast - NY daily, all day
DK2OM	29400,0	1340	12	02	IRN		FMCW		50k	splatter from OTH radar Iran 29750 kHz - 926 sps
DK2OM	29450,0	0950	14	02	MRC		F1B	81.9	140	Datawell-buoy "Waverider" - 29449.880 kHz - area of El Aaiun - Morocco - daily, all day
DK2OM	29500,0	---	--	02	G		F1B	81.9	140	Datawell-buoy "Waverider" - area of Gibraltar - daily, all day
DK2OM	29525,0	---	--	02	MRC		F1B	81.9	140	Datawell-buoy "Waverider" - 29524.990 kHz - Agadir - Morocco - daily, all day
DK2OM	29625,0	---	--	02	USA		F1B	81.9	140	Datawell-buoy "Waverider" - 29625.024 kHz - USA northeast coast - daily, all day

IRTS - Ireland - EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
IRTS	3503	1425 to 1457	04	02	IRL/ UK/ MM		USB			UK and Irish fishermen. 2 persons, male. One Ulster accent, the other Dublin accent. Foul language used all the time ("fucking bastards"). Motor noise in the background. Mentioned: Dublin and Cork Harbour. One of the fishermen is just around Clogherhead. He is called Brendan, the other one Peter. They make an arrangement for another QSO for 4 or 4.30 PM - but do not come back on this frequency.
IRTS	3504	1800-1820	04	02	POR or MM		USB			Portuguese fishermen
IRTS	3509	1035 to 1051	24	02	F		USB			French fishermen, Port of La Rochelle. Going out to sea wishing each other "Bon journee" in the end.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
IRTS	3509	1315	24	02	MM		USB			French fishermen
IRTS	3535.7	2115	03	02	E or MM		USB			Spanish fishermen
IRTS	3560	1940	01	02	POR or MM		USB			Portuguese fishermen
IRTS	3567	1407 to 1417	01	02	IRL		USB			Irish Fishermen. At least one in County Galway. He is complaining about the water/flooding in Galway. Has a house with a river just behind it.
IRTS	3567	1452 to 1519	01	02	IRL		USB			Same 2 fishermen as above. Plus two others. VHF traffic heard in the background of the fisher from Galway. They keep talking about things. Places mentioned: Castlederg, Clogherhead and Dunmore.
IRTS	3570	1835	21	02	MM		USB			French fishermen
IRTS	3595	1220 to 1232	27	02	MM		USB			English fishermen, 3 boats. Swearing is a lot less than among Irish fishers. "Going down the engine room". One of the fishers is called John, another Jimmy. At 1231 UTC one of the fishers tells the others to go to "Four-five-nine-five". Then he complains about "the fucking easterly wind". All gone a second later.
IRTS	3606	1920 to at least 1950	06	02						Radar 3606 to 3670 kHz
IRTS	3606	1930	07	02						Radar from 306 to 3662 kHz
IRTS	4595	1233 forward	27	02	MM		USB			Same crowd as above- now all here. "This band seems to be better". NOTE: Not a Ham frequency. Published only for information purposes to show that the fishermen like to use many different frequencies and do a QSY after organizing it first among themselves in the middle of a QSO..
IRTS	7000	1900	15	02	RUS		H3E		3400	Buzzer- only very weak
IRTS	7010	1713-1740	02	02						Radar from 7010 to 7140 kHz. Reported by EI0DB. See attached files. MNY TNX, Dave!
IRTS	7017.5	1135	02	02	RUS	REA4	F1B	100	2000	Airforce Moscow
IRTS	7090	2100-2110	03	02			USB			Arab net- several male voices
IRTS	7200	1340 to 1400	14	02	CHN		A3E			Radio Taiwan International, sign off at 1400z
IRTS	7200	1330 to 1400	24	02	CHN		A3E			Radio Taiwan International in Chinese, s/off at 1400 z
IRTS	7891	1415 forward	24	02	MM		USB			Scottish fishermen. Discussing unemployment in the oil industry. Found crabs in the net. Very strong signal. NOTE: 7891 kHz is NOT a Ham frequency. Published only for information purposes. The fishermen seem to use any frequency they like.
IRTS	10102	1945	26	02			USB			2 voices, male. Spanish
IRTS	10118	1940	26	02			USB			2 voices, male. Spanish
IRTS	10131.3	1845-1915	07	02	MM		USB			2 male voices, probably Korean
IRTS	10131.3	1800	26	02	MM		LSB (!)			2 voices, male, in an Asiatic

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										language, possible Korean.
IRTS	10136	1515	06	02						Radar 59 plus from 10136 to 10160 kHz.
IRTS	10140	1830	21	02			USB			2 men chatting, Arab, Maghreb accent
IRTS	14250	1230-1245	17	02			USB			Loud non-stop English pop music
IRTS	14256	0900	09	02						Radar from 14256 to 14263 kHz
IRTS	14310	1640	02	02						Strong digital signals
IRTS	21198	1045-1130	22	02						Radar from 21198 to 21455 kHz
IRTS	21244	1015	14	02						Radar from 21244 to 21271 kHz
IRTS	21316	1130	27	02						Radar,21316 to 21340 kHz
IRTS	21368	1345-1400	20	02	B		LSB			Brazilian voices, male. Chat. No ID or names
IRTS	21410	1045	24	02						Radar from 21410 to 21455 kHz, 59 plus plus plus
IRTS	28115	1145	15	02	RUS		FM			RUS taxi, female voices
IRTS	28165	1145	13	02	RUS		FM			RUS taxi, female voice
IRTS	28215	1300	13	02	RUS		FM			RUS taxi, female voice
IRTS	28215	1200	15	02	RUS		FM			RUS taxi, female voices
IRTS	28295	1415	12	02	RUS		FM			Taxi operators, female voice
IRTS	28415	1415	20	02						Radar from 28415 to 28441 kHz, very strong.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3505,0	2010	20	2			A3E		Unstable carrier
MRASZ	3510,0	1737	17	2			A3E		Ui. language
MRASZ	3525,0	2020	20	2			A3E		Ui. language
MRASZ	3535,0	2002	20	2			USB		Ui. language
MRASZ	3536,0	0725	12	2			A1A		"LKKMMMCKMMKLVKLLK"
MRASZ	3548,0	2044	15	2			A1A		Dashes, deliberate disturbance
MRASZ	3548,0	1728	17	2			A1A		"V", "V", "V"
MRASZ	3549,0	1954	15	2			A1A		"de ER1AAZ QRP 4W... beacon
MRASZ	3552,5	1731	17	2			A1A		QM2E" many times
MRASZ	3562,8	1855	14	2			A1A		"UU4 UU4 UU4"
MRASZ	3570,0	1915	25	2			USB		Ui. language
MRASZ	3576,0	1947	7	2			LSB		Italian hams
MRASZ	3593,8	2110	1	2	RUS	P	A1A		Cluster beacon, hrd: 4, 9, 10
MRASZ	3630,0	1915	4	2			OTHR		3605-3655 kHz
MRASZ	3638,0	1553	10	2			A1A		5 letters, "VVV AS AS ZZT"
MRASZ	3658,0	vt	dly	2	UZB	V	A1A		Beacon "V" - Tashkent
MRASZ	3726,0	2002	4	2			A1A		5 letters
MRASZ	7000,0	1934	1	2	RUS		H3E		Buzzer, hrd: 4,12,14,15,17,24,25,
MRASZ	7009,1	1935	20	2			USB		Mentioned: "TSB", "TLB", "ALB", "TSL"
MRASZ	7020,0	1811	14	2			LSB		Ui. language
MRASZ	7023,0	1027	5	2			A1A		Dotter
MRASZ	7040,0	1836	4	2			OTHR		7000-7080 kHz; at 1840 again
MRASZ	7050,0	1502	4	2			LSB		Russian, hrd: 8,
MRASZ	7055,0	1714	8	2			LSB		Russian
MRASZ	7120,0	1538	7	2	SOM		A3E		Radio Hargaysa, hrd: 8, 9, 17, 24
MRASZ	7200,0	1746	24	2			A3E		Splatter down
MRASZ	10114,8	0735	12	2			F1B	1000	
MRASZ	10120,0	1716	14	2			USB		Russian
MRASZ	10150,0	1827	17	2			OTHR		
MRASZ	14000,0	1045	12	2			OTHR		14000-14025 kHz
MRASZ	14285,0	1058	5	2			OTHR		14270-14300 kHz
MRASZ	14285,0	0825	12	2			OTHR		14280-14295 kHz
MRASZ	21200,0	0954	7	2			OTHR		

OEVSU – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
OeVSV	7010.0	0520	09	02			FMCW	OTHR	
OeVSV	7060.0	1900	22	02	RUS		FMCW	Contayner	
OeVSV	18151.0	0608	09	02		Unid	A1A	Groups	

PZK – Poland – SP9BRP (Jan)**REF 1 – France – F5MIU (Francis)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh /Bw	DETAILS
R.E.F.									Fébruary 2016
F5MIU	0750	1655	06	02			fmcw	30kHz	OTH Radar, S9+10, 20pps
F5MIU	7025	1726	11	02			fmcw	35kHz	OTH Radar, S9+10, 20pps, very bad spectrum
F5MIU	7050	1749	23	02			fmcw	20kHz	OTH Radar, S6, 20pps
F5MIU	7060	1837	22	02			fmcw	20kHz	OTH Radar, S7, 20pps
F5MIU	7085	1800	23	02			fmcw	20kHz	OTH Radar, S8, 20pps
F5MIU	7160	1710	27	02			fmcw	20kHz	OTH Radar, S8, 20pps during French contest
F5MIU	14005	0900	12	02			fmcw	35kHz	OTH Radar, S9+10, 20pps, very bad spectrum
F5MIU	14200	0857	02	02			fmcw	100kHz	OTHR S3, 10pps
F5MIU	18065	0844	26	02			fmcw	20kHz	OTH Radar, S7, 20pps
F5MIU	18085	1536	09	02			fmcw	20kHz	OTH Radar, S5, 20pps
F5MIU	18170	0902	26	02			fmcw	20kHz	OTH Radar, S9, 20pps
F5MIU	18200	0842	23	02			fmcw	100kHz	OTH Radar, S4, 40pps perturbations down to 18150
F5MIU	18200	0849	24	02			fmcw	100kHz	OTH Radar, S4, 40pps perturbations down to 18150
F5MIU	21090	1030	10	02			fmcw	20kHz	OTH Radar, S8, 20pps
F5MIU	21330	0845	27	02			fmcw	20kHz	OTH Radar, S6, 20pps during French contest still these à 11h26
F5MIU	21438	0924	08	02		RCV	CW		RUS Navy Sevastopol
F5MIU	25000	0848	13	02			fmcw	20kHz	OTH Radar, S8, 20pps
F5MIU	25000	0848	15	02			fmcw	20kHz	OTH Radar, S8, 20pps
F5MIU	29600	0858	08	02			fmcw	20kHz	OTH Radar, S9, 20pps
F5MIU	29660	0852	10	02			fmcw	20kHz	OTH Radar, S8, 20pps

REF 2 – France – F5JBR (Andre)**REP – Portugal – CT4AN (Jose Francisco)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3505	13.20	06	02			A1			Carrier
REP	3520	20.00	01	02	MRC		J3E-U			Fishermen
REP	3545	23.03	08	02			J3E-L			Unid intruders
REP	3560	09.15	02	02	E		J3E-L			Spanish fishery
REP	3705	08.09	10	02	RUS		J3E-U			Russian Navy
REP	3725	10.44	03	02	E		J3E-U			Spanish fishery
REP	3760	17.23	02	02			J3E-L			Music, unid lang. Also Russian „PIP“ marker
REP	6998	20.25	13	02	RUS		H3E	4k		The Buzzer, up to 7002kHz
REP	6999	20.22	13	02			J3E-U			Unid female on phone patch,
REP	7000	07.31	05	02	MRC		J3E-U			Fishermen
REP	7005	23.00	20	02			F1B	75	240	Unid FSK
REP	7015	16.01	22	02			J3E-L			Unid intruders
REP	7027	16.29	11	02	RUS		FMCW	15k	50	OTH radar
REP	7039,0	22.07	01	02	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039,3	23.30	09	02	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7038,8	23.20	01	02	RUS	P	A1A			MURMANSK, ADY, DLY

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7065	17.31	27	02			FMCW	15	50	OTH radar
REP	7070	15.57	24	02	POR		J3E-L			Music, cat calling, whistling, CT ops
REP	7073	16.20	06	02			FMCW	20k	50	OTH radar
REP	7120	18.33	10	02	SOM		8k00 A3EGN			Radio Hargaysa
REP	10130	09.11	26	02	E		J3E-U			Spanish fishery
REP	10130	20.29	13	02	MRC		J3E-U			Moroccan fishery
REP	10140	20.04	03	02			FMCW			OTH radar
REP	10145	18.01	17	02	MRC		J3E-U			Intruders
REP	14005	11.00	11	02			F1B	300	425	RY RY RY
REP	14050	09.10	11	02			FMCW			OTH radar
REP	14127	12.57	05	02	RUS		J3E-U			Long winded religious speech
REP	14195	17.11	11	02	RUS		F1B	75	400	Navy in Kaliningrad
REP	14200	08.56	02	02	CHN		FMCW	100k	25	Wideband OTH Radar
REP	14287	13.10	05	02			FMCW	20k	50	OTH radar
REP	14300	09.06	02	02	CHN		PSK	3k	16	16 Tone Modem, 450Hz pilot tone
REP	21120	18.03	11	02	E		J3E-U			Fishermen
REP	24930	12.30	21	02			FMCW			OTH radar 10kHz 20sps
REP	28015	14.03	18	02	B		J3E-U			Brazilian illegal ops
REP	28085	14.02	18	02	B		A3E			Brazilian truckers
REP	28250	14.00	18	02	B		A3E			Brazilian truckers
REP	28275	11.33	04	02	RUS		F3E			YL taxi dispatcher DLY
REP	28385	12.05	04	02	RUS		F3E			YL taxi dispatcher DLY
REP	29015	11.26	04	02	RUS		F3E			Russian taxi dispatcher
REP	29045	17.45	04	02	RUS		F3E			Russian taxis
REP	29115	11.07	04	02	RUS		F3E			Russian taxi dispatcher
REP	29250	14.44	12	02	E		F1B	82	140	Datawell GPS buoy near Canary Islands
REP	29625	12.30	07	02			F1B			Datawell buoy
REP	144075		dly		POR		F3E			2m/40m unlicensed cross-band link in Northern of Portugal

RSGB - Great Britain – M0VRR (Vaughan)

SRAL – Finland – OH2BLU (Pekka)

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	6998,0	0400-1600	dly	2	RUS	UiTone	R3E			118 Hz tones
SRAL	7008,0	0740-1315	3. 4. 8.	2		UiPTR	F1B		250	
SRAL	7010,0	0750-1115	22.	2		UiMUX	PSK2	120	2600	
SRAL	7012,0	1140-1200	1.	2		UiPTR	F1A			
SRAL	7013,0	0855-0940	4.	2		UiMUX	PSK2	120	2600	
SRAL	7014,0	1220-1300	5.	2		UiMUX	PSK2	120	2600	
SRAL	7014,0	1155-1235	9.	2		UiPTR	F1A		250	
SRAL	7017,5	1100-1415	2.	2	RUS	REA4	F1B		2000	
SRAL	7030,0	0900-1125/	8.	2		UiPTR	F1A		250	
SRAL	7030,0	1300	10.	2		UiMUX	PSK2	120	2600	
SRAL	7030,0	0800-1000/	25.	2		UiPTR	F1A		250	
SRAL	7030,0	/1300-1440/	dly	2	PAK	VoJ&K	A3E			Islamabad tx
SRAL	7032,0	0715	11.	2		UiMUX	PSK2	120	2600	
SRAL	7037,0	0700-0800	19. 29.	2	RUS	UiVOX	J3E-u			Russian male
SRAL	7039,0	0630-2000	dly	2	RUS	C	A1A			Moscow (also on SK3W WEBSDR)

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7073,0	1415	2.	2		UiMUX	PSK2	120	2600	
SRAL	7089,0	0700-0930	10.	2		UiMUX	PSK2	120	2600	
SRAL	7098,0	0740-1310	*	2		UiPTR	F1B		250	Days: 3. 18. 25. 28.
SRAL	7099,0	0920	6. 16.	2		UiPTR	F1B/NON		200	
SRAL	7099,5	0600-0800	12.	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7116,75	0755-1050/	24.	2		UiPTR	F1B/NON		250	Brumming
SRAL	7120,0	0625	16.	2		UiCW	A1A			
SRAL	7120,0	/0330-0530/	dly	2	SOM	R.Hargeisa	A3E			
SRAL	7120,0	/1500-1900/	dly	2	SOM	R.Hargeisa	A3E			
SRAL	7127,0	0700-0915	10.	2		UiMUX	PSK2	120	2600	
SRAL	7148,0	1730	29.	2		UiMUX	PSK2	120	2600	
SRAL	7160,0	0630-0800	16. 17.	2	RUS	RMW32	A1A			
SRAL	7164,0	1230-1620	3. 9.	2		UiMUX	PSK2	120	2600	
SRAL	7176,0	0700-0715	10.	2		UiPTR	F1B		250	
SRAL	7178,0	0520	25.	2		UiMUX	PSK2	120	2600	
SRAL	7181,7	0400-0735/	2. 4.	2		UiCarr	NON			
SRAL	7193,0	0900-1400	*	2		UiPTR	F1B/NON		200	Days: 1. 5. 6. 10. 11. 16. 17. 19.
SRAL	7198,0	1320-1330	26.	2		UiMUX	PSK2	120	2600	
SRAL	7200,0	/0955-1400/	dly	2	CHN	CNR1	A3E			Used as jammer on TWN
SRAL	7200,0	1400-1505/	8.	2	TWN	R Taiwan	A3E			
SRAL	7201,0	1040	24.	2		UiMUX	PSK2	120	2600	
SRAL	7 MHz	1720-0720	1. 9. 11.	2	RUS	29B6	FMCW			50Hz / 15 kHz
SRAL	14050,0	0915	10.	2		UiPTR	F1B		250	
SRAL	14160,0	0915-0955/	10.	2		UiPTR	F1B		250	
SRAL	14234,0	0910	5.	2		UiMUX	PSK2	120	2600	
SRAL	14280,0	1010-1016/	10.	2		729	R3E-u			
SRAL	14295,0	0615-1515	dly	2	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX unstable on 16. – 20. & 29.
SRAL	14 MHz	0715-1320	*	2	RUS	29B6	FMCW			50Hz / 15 kHz , days: 5. 8. 10. 12.
SRAL	14 MHz	0530-1800	dly	2	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec transmit with 16 min cycle
SRAL	18 MHz	0630-0930	26. 28.	2	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	21 MHz	0645-1500	*	2	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 9. 10. 13. 27.
SRAL	21438,0	0830-1330	*	2	RUS	RCV	A1A			Days: 11. 12. 13. 15. 16.
SRAL	24 MHz			2		UiOTHR	FMCW			no reports
SRAL	28 MHz	0900-1100	*	2	IRN	UiOTHR	FMCW			(307 &) 870 Hz / 60 kHz – 300 kHz, days: 4. – 11. 24.
SRAL	28 MHz	0705-1215	*	2		UiOTHR	FMCW			25/50Hz / 20 kHz, days:10. 12. 13.
SRAL	28 MHz			2	RUS	Taxi disp.	F3E			no reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m Band informational only (primary but not exclusiv, shared with other services)										
USKA	3525.0	2259	02	02			DQPSK	14x75	5k9	LINK 11 CLEW
USKA	3530.0	2312	11	02			DQPSK	14x75	5k9	LINK 11 CLEW
USKA	3532.0	2247	02	02			DQPSK	14x75	5k9	LINK 11 CLEW almost daily
USKA	3553.8	2251	02	02			PSK8	2400	~2k4	Stanag 4285 daily
USKA	3574.3	2306	25	02			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	3593.8	2254	02	02	RUS	P	A1A			Beacon P daily
USKA	3595.0	2316	11	02			DQPSK	14x75		LINK 11 CLEW
USKA	3608.0	2327	22	02			F1B	50	200	often
USKA	3653.0	2256	02	02			F1B	75	250	
USKA	3658.0	2257	02	02	UZB	V	A1A			Beacon V
USKA	3712.0	2329	22	02			DQPSK	14x75	5k9	LINK 11 CLEW
USKA	7000.0	2111	02	02			H3E-U Bursts		~3k6	"Buzzer"; up to ≥7001.5kHz; daily Burst duration 1.2s, repetiton 3s Carrier at 6998.0 kHz
USKA	7000.0	2143	01	02			J3E-U			English
USKA	7000.0	0834	10	02			MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0939	10	02			N0N			long lasting carrier often
USKA	7010.0	0928	22	02			J7D	12x120	2k7	PSK-4: CIS12 – AT3104D
USKA	7014.0	1815	03	02			J7D	12x120	2k7	PSK-2: CIS12 – AT3004D
USKA	7017.5	1124	02	02			F1B	100	2000	
USKA	7018.0	1739	02	02		REA4	F1B	100	800	
USKA	7018.0	1741	02	02		REA4	F1A		800	letters and figures; ID REA4
USKA	7020.0	1907	05	02		810602	MFSK8	125	1750	MIL 188-141A To:RS008D
USKA	7020.0	1958	05	02		810603	J3E-U		2k4	unid. language
USKA	7020.0	1936	05	02		810613	MFSK8	125	1750	MIL 188-141A To:RS008D
USKA	7020.0	1958	01	02		820605	MFSK8	125	1750	MIL 188-141A To:RS008D
USKA	7020.0	2139	03	02		820699	MFSK8	125	1750	MIL 188-141A To:RS008D
USKA	7020.0	1919	03	02		CS004A	MFSK8	125	1750	MIL 188-141A To:RS0012D
USKA	7020.0	0831	10	02			J3E-U		2k4	Russian
USKA	7022.0	0931	10	02			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7023.0	1734	02	02			FMOP	50 sps	~13k	OTHR
USKA	7026.0	1731	11	02			FMOP	50 sps	~13k	OTHR
USKA	7030.0	0919	10	02			J7D	12x120	2k7	PSK-2: CIS12 = AT3004
USKA	7032.0	0725	11	02			J7D	12x120	2k7	PSK-2: CIS12 = AT3004
USKA	7034.0	2218	02	02			FMCW	63 sps	~10k	Burst system
USKA	7039.0	1254	19	02	RUS	C	A1A			Beacon C Moscow
USKA	7039.4	2031	01	02	RUS	M	A1A			Beacon M Magadan daily
USKA	7050.0	1614	08	02			J3E-L			Voice, jammed (no ham)
USKA	7053.0	2203	23	02			OTHR	50 sps	~13k	OTHR
USKA	7055.0	1251	19	02			J3E-L			Voice, music, jammed (no ham)
USKA	7060.0	1835	22	02			OTHR	50 sps	~13k	OTHR
USKA	7070.0	1744	29	02		288	MFSK8	125	1750	MIL 188-141A; To: 571 often
USKA	7070.0	2241	28	02		811104	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2255	28	02		811199	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1750	29	02		820203	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2248	28	02		820211	MFSK8	125	1750	MIL 188-141A
USKA	7089.0	0933	10	02			J7D	(12x120)	2k7	CIS12 idling
USKA	7089.8	0939	22	02			G1D	2400	2k4	LINK 11 SLEW often
USKA	7120.0	1628	03	02	SOM		A3E			Radio Hargaysa almost daily
USKA	7137.0	1601	05	02			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7162.0	1618	09	02			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7169.0	1300	18	02			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7175.0	1211	10	02			J7D	(12x120)	2k7	CIS12 system idling
USKA	7177.0	1626	05	02			F1B	50	200	CIS 50-50
USKA	7180.0	2206	29	02			FMCW	63 sps	~10k	Burst system
USKA	7186.0	2156	29	02			FMCW	50 sps	~10k	Burst system
USKA	7188.0	2157	29	02			FMCW	50 sps	~10k	Burst system
USKA	7197.0	2211	02	02	TUR	123466	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2302	18	02	TUR	302013	MFSK8	125	1750	MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7197.0	2259	18	02	TUR	309018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2304	18	02	TUR	310013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2207	02	02	TUR	312013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2254	18	02	TUR	315018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2244	18	02	TUR	319018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2318	28	02	TUR	332013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2243	18	02	TUR	332018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2210	02	02	TUR	348013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2255	18	02	TUR	349018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2252	18	02	TUR	357018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2254	18	02	TUR	358013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2300	18	02	TUR	360013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2210	02	02	TUR	363013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2259	18	02	TUR	364013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2211	02	02	TUR	375018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2239	29	02	TUR	380013	MFSK8	125	1750	MIL 188-141A
USKA	7200.0	1301	19	02			A3E		~10k	BC; sounds like "Chinese" daily Lower sideband down to 7195
USKA	7200.0	1309	19	02					~18k	strong jammer
USKA	14000.0	0852	10	02			J3E-U			unid language
USKA	14001.5	0857	10	02			F1B	200	200	Pactor bursts; "encrypted connect"
USKA	14050.0	0851	10	02			F1B	50	250	
USKA	14089.0	0846	10	02			FMOP	50	~13k	OTHR
USKA	14160.0	0904	10	02			F1B	50	250	
USKA	14166.0	0905	23	02			FMCW	10 sps	~10k	OTHR
USKA	14185.0	0800	26	02			FMCW	10 sps	~10k	OTHR
USKA	14192.0	1136	02	02			F1B	50	500	CIS 50-50 often
USKA	14278.0	1059	16	02			FMCW	10 sps	~160k	OTHR
USKA	14287.0	1052	05	02			FMCW	50 sps	~13k	OTHR
USKA	14295.0	0857	08	02	TJK		A3E			BC: almost daily 3 rd of Radio Tajik at 4765 kHz
USKA	14300.0 VFO USB	0854	08	02			BPSK	16x75	2k2	Burst system; 16 tones, daily 2 pilottones
USKA	18100.0	0945	25	02		A2	MFSK8	125	1750	MIL 188-141A; LQA; To: A5
USKA	18100.0	0929	25	02		A201	MFSK8	125	1750	MIL 188-141A; LQA; To: C3
USKA	18100.0	0943	25	02		B301	MFSK8	125	1750	MIL 188-141A; LQA; To: C3
USKA	18100.0	0922	25	02		W7	MFSK8	125	1750	MIL 188-141A; LQA; To: ET
USKA	21145.0	0932	25	02		A201	MFSK8	125	1750	MIL 188-141A, LQA; To: C3
USKA	21145.0	1142	02	02		S301	MFSK8	125	1750	MIL 188-141A, LQA; To: C3
USKA	21307.0	1033	05	02			FMCW	50	9k	OTHR; BD 5s, BRI 25s
USKA	21416.0	0913	10	02			FMCW	50	9k	OTHR; BD 5s, BRI 25s
USKA	21438.0	0844	08	02		RCV	A1A			letters and figures almost daily
USKA	21444.0	1008	05	02			FMCW	50	9k	OTHR; BD 5s, BRI 25s

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3593.8	18.35	4	2	RUS	P	A1A		P-beacon
VERON	3757.8	18.37	4	2		UiCW	A1A		Time signal
VERON	7162.0	18.08	27	2		UiRadar	FMCW	30k	OTHR; 50sps
VERON	10123.0	13.00	24	2		UiPTR	F1B		Ptr
VERON	10150.0	09.28	24	2		UiPTR	FiB		Idle
VERON	14116.0	09.56	5	2	CIS	UiPtr	F1B	250	Ptr
VERON	14116.0	10.27	24	2	CIS	UiPtr	F1B	250	Ptr
VERON	14116.0	09.14	5	2	CIS	UiPTR	F1B		Fast Revs (followed by)
VERON	14116.0	09.15	5	2	CIS	UiCW	F1A		QRJ 3, QRJ ?, QJG, R k
VERON	14192.0	09.10	6	2	RUS	UiPtr	F1B	500	Revs/Ptr
VERON	14192.0	09.16	5	2	RUS	UiPTR	F1B		Revs/Ptr (also 8/2 10.19 UTC)
VERON	14192.0	13.27	6	2		UiPtr	F1B	500	Printer
VERON	14192.0	10:33	7	2		UiPtr	F1B	500	Printer
VERON	14287.0	11.31	5	2	RUS	OTHR	FMCW		radar, 50 sps, Contayner, Gorodezh

VERON	18075,0	14.47	11	2		OTHR	FMCW		radar, Cyprus, 15.11 utc qrt
VERON	21438,0	14.47	4	2	RUS	RCV	A1A		RKZ de RCV QTC 855 Prognoz Pogody
VERON	21438,0	09.20	5	2	RUS	RCV	A1A		RIP90 de RCV QYD 7 ar
VERON	21438,0	09.22	5	2	RUS	RCV	A1A		RIP90 de RCV QTC 395 Nawip 033 206
VERON	21438,0	10.23	8	2	RUS	RCV	A1A		RIP90 de RCV QTC 348 Nawarea 032 10
VERON	21438,0	10.28	8	2	RUS	RCV	A1A		RBE86 de RCV QTC 710 Nawarea 038 8
VERON	21438,0	10.34	8	2	RUS	RCV	A1A		RIP90 de RCV QTC 329 Nawarea 032 7
VERON	21438,0	10.52	11	2	RUS	RCV	A1A		RIP90 de RCV QTC 386 Nawip 033 190

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German BNetzA Konstanz

Many thanks for your interest!

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