



# Monitoring System

DK2OM – Wolf Hadel  
Co-ordinator of IARUMS Region 1  
Editor of the Newsletter

HB9CET – Peter Jost  
Vice Co-ordinator of IARUMS Region 1

The monthly newsletter for Region 1

## October 2014

### The 27 members of the IARUMS Region 1 Monitoring Team:



### Acknowledgements

ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI9GSB - Lisa ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ROARS: A41MA - Younis ++ RSGB: M0VRR - Vaughan ++ SARL: ZS4GJA - Gideon ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4PN - Patrick URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1) ++ PTTs: German (BNetzA), BAKOM (Swiss), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ – Petrica

# Part 1: News and Infos

## 1. Spanish fishery again on 80 m

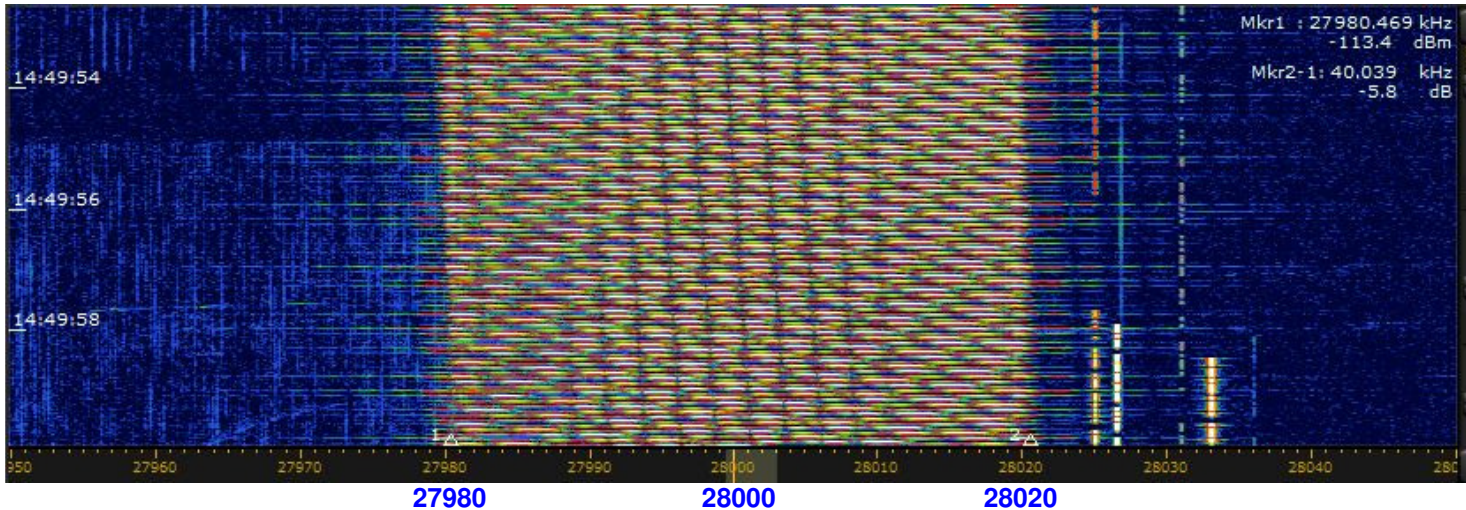
Spanish fishermen were daily abusing 3500, 3510, 3520, 3530, 3540 and 3560 on USB every morning and evening.

## 2. 28 MHz – OTH radar Iran as usual

The OTH radar from Iran was often disturbing 28000 and 28600 kHz with strong splatters +/- 400 kHz. Parameters: 307 and 870 sweeps/sec. You can hear a deep and a high tone.

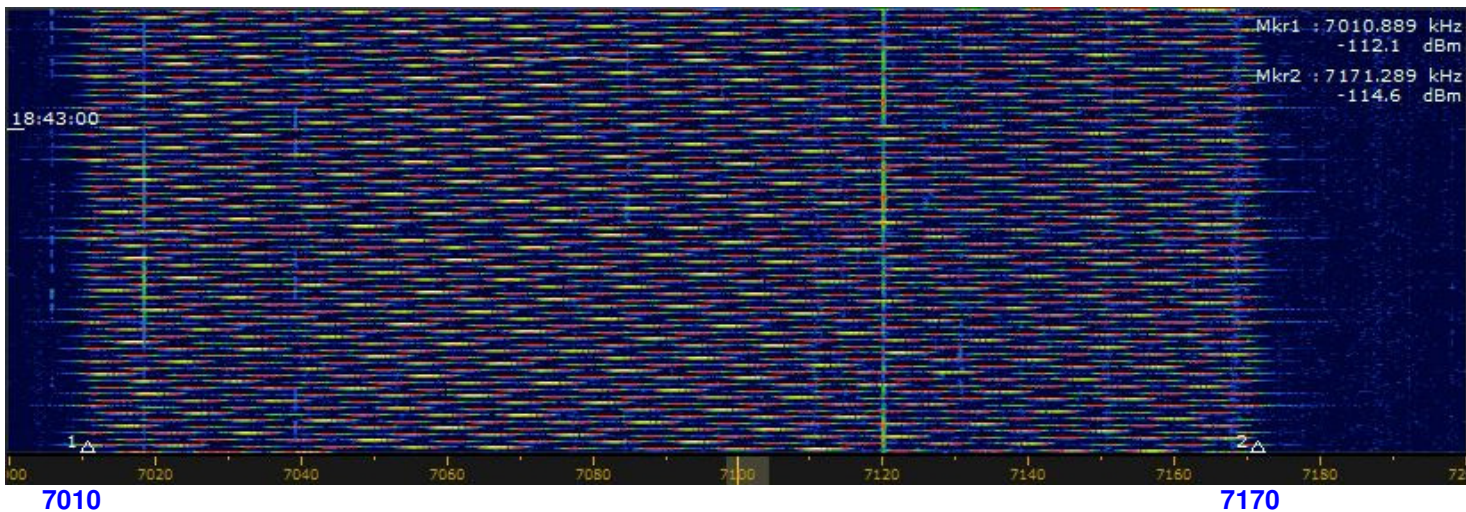
## 3. Turkish OTH radar on 10 m

A Turkish OTH radar was observed on 28000 kHz (center) on October 9<sup>th</sup>. Parameters: 12.5 sps, covering 40 kHz. Screenshot: DK2OM



## 4. OTH radar covering 80 % of 40 m-band

Strong disturbances by an OTH radar on October 26<sup>th</sup> and 27<sup>th</sup> in the evening hours. Parameters: 10 sps and 160 kHz wide. Burstlength: 51 and 102 sec. Location: NW-China  
Screenshot: DK2OM via remote Japan



## 5. CIS taxi flood on 10 m and Far East intruders

CIS taxis were flooding the whole 10 m-band on FM daily, mostly from Russia. The MUF (maximum usable frequency) was rather high, and the F2 layers were strong and stable. Some people believe that the taxi flood were audible by the Sporadic E layers. This is not correct! Nobody seems to be able to stop the taxi intrusions. Many Far East intruders were found on FM in the mornings.

## 6. Spurious emissions on 21435 kHz

Radio Free Asia was transmitting every Tuesday (1000 utc) on 21455 kHz being jammed by a Chinese BC transmitter. The Chinese transmitter produced strong spurious emissions covering +/- 10 kHz. The German PTT (BNetzA) was informed by DK2OM.

## 7. 14295.1 BC harmonic from Radio Tajik

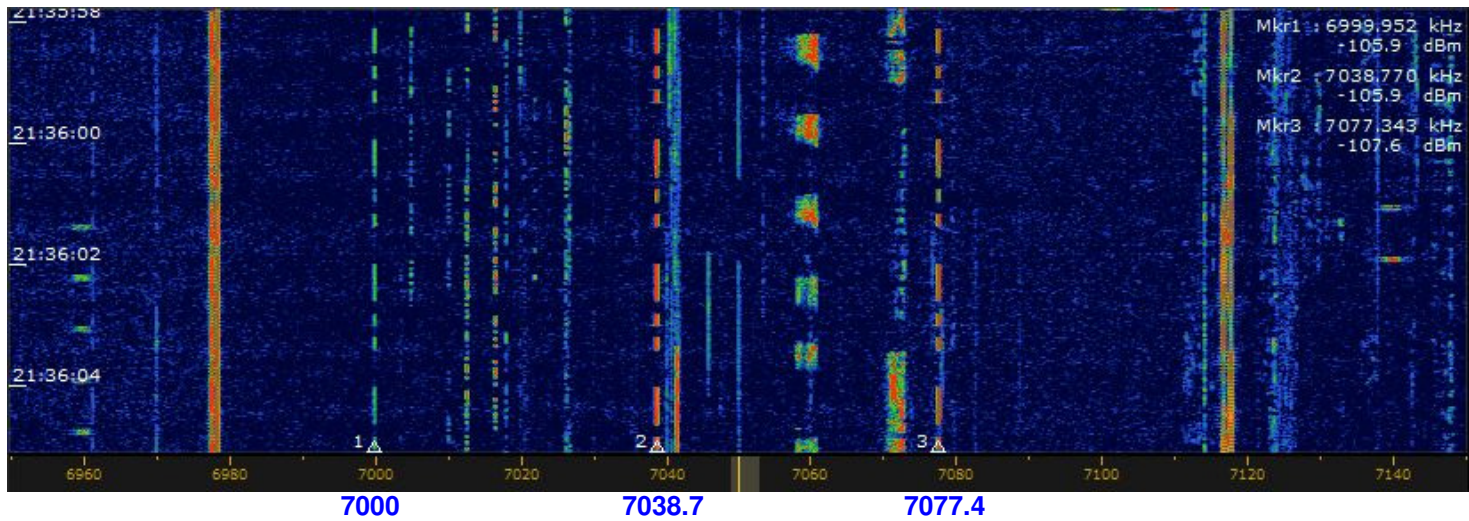
The harmonic emission from 4765 kHz was still existing. We do not expect any change before the year 2020.

**8. Beacon “V” on 7091.5 kHz**

A mysterious beacon “V” was audible on 7091.5 kHz on Oct. 18<sup>th</sup>. Location: Almaty – Kyrgyzstan

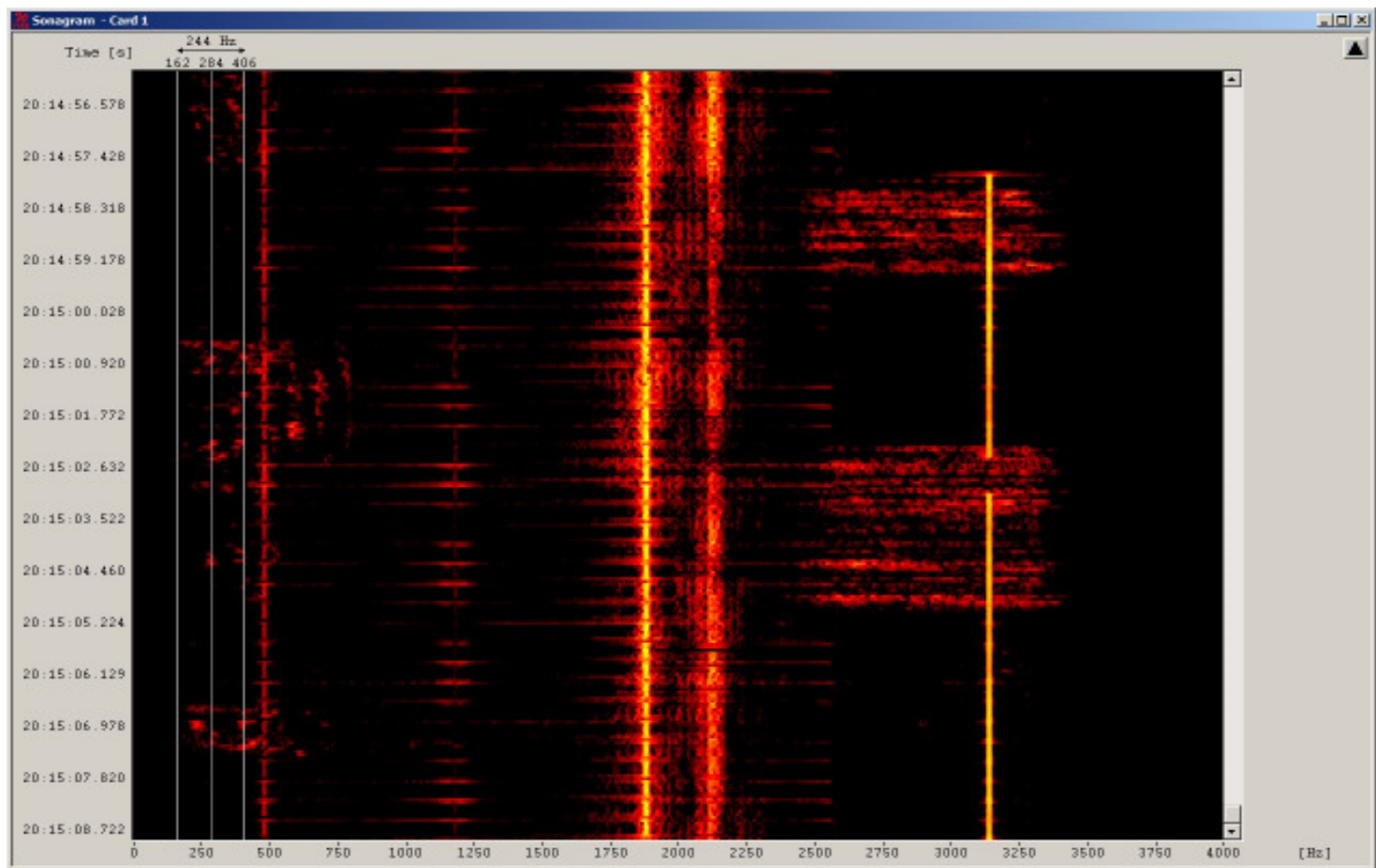
**9. Beacon “D” from Sevastopol – triple action**

The cluster beacon “D” was active on 7000.0, 7038.7 and 7077.4 kHz.- Russian Navy Sevastopol  
Screenshot: DK2OM



**10. Illegal defender**

A German Ham tried to disturb a legal military transmission from Russia on 80 m. The 80 m-band is assigned on primary base, but not exclusive. The illegal action happened on 3733.0 kHz on Oct. 22<sup>nd</sup> at 2000 utc. The FSK transmission (75 Bd – 250 Hz shift) came from Kaliningrad. W-Code screenshot by DK2OM – showing “dashes” on the space QRG and the spurious emissions (2 kHz wide!) from the “defender”. The same person is known for his emissions on 7 MHz, too.



**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://www.iaru-r3.org/ms/>

Intruderlogger Region 1

<http://peditio.net/intruder/bluechat.cgi> - The service will continue! TNX OH2BLU!

**ITU-Monitoring Reports:**

<http://www.itu.int/ITU-R/index.asp?category=terrestrial&rlink=terrestrial-monitoring&lang=en>

## Part 2: Detailed reports of the national Co-ordinators

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

### ARSK MONITORING OVERVIEW FOR OCTOBER 2014

Radio Hargeisha on 7120 kHz continued as usual, but Uganda Radio on 7195 kHz was no longer heard. Unidentified intruders using KiSwahili (who may be military) on 7,000 kHz and others unidentified on 7,075 kHz were also active as usual.

E/H.M. Alleyne, 5Z4NU

ARSK National IARUMS Co-ordinator

\*\*\*\*\*

#### ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7.0000	am	dly	10	?		J3Eu	Inidehntified, KiSswahili, East Africa.
ARSK	7,075.00	vt	dly	10	E. Africa	?	J3E	Unknown African language
ARSK	7120.00	vt	dly	10	Rep.of Somaliland	Hargeisha	A3E	Daily/nightly broadcasts.

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

DG0JBJ (Mario) observed **85** OTH radars on 20 m, **49** OTH radars on 15 m and **162** OTH radars on 10 m in October 2014. Russian OTH radars were active again on 20 m with 10 and 50 sps – partly 40 kHz wide with splatters!

#### DARC 2 – Germany - DK2OM (Wolf)

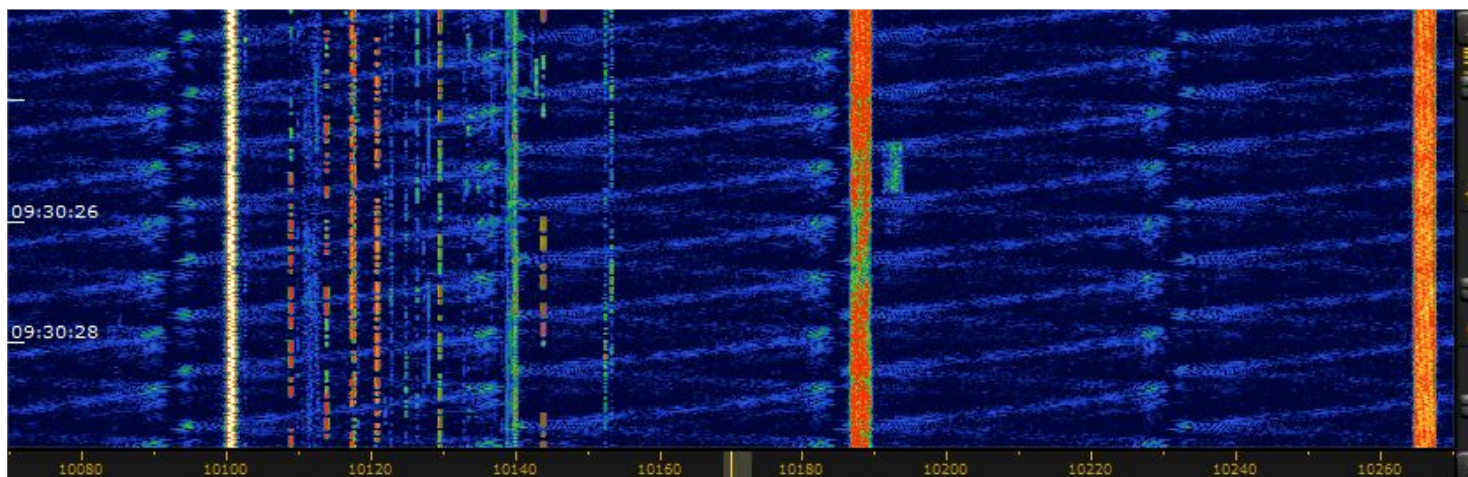
**FSK transmissions -> center frequency between mark and space**

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

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

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

**7000 – 14350 - strong interference by LED-lamps (switching power supply) from a neighbour house often in the evenings. Screenshot by DK2OM: disturbance on 10 MHz**



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	2022	03	10	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day
DK2OM	1852,0	1901	18	10	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2032	03	10	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	2033	03	10	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1880,0	vt	vd	10	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Brugge – Belgium - daily
DK2OM	1888,0	2021	03	10	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	2016	03	10	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy
DK2OM	1925,0	2020	03	10	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	vt	dly	10	TUR		FSK8	120	1750	ALE, “201” - Turkish Red Crescent – legal!
DK2OM	<b>3500,0</b>	<b>1716</b>	<b>23</b>	<b>10</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery with scrambler CRY 2001</b>
DK2OM	3500,0	1648	17	10	G		USB			UK fishery
DK2OM	3500,0	2250	26	10	HOL		USB			Dutch fishery
DK2OM	3500,4	1957	24	10	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3500,5	1824	13	10	RUS		F1B	75	200	Kaluga
DK2OM	3503,5	vt	dly	10	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3509,8	2155	31	10	ISR		PSK2 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3510,0	2214	29	10	E		USB			Spanish fishery
DK2OM	3515,0	2017	07	10	RUS		PSK4B	120	2600	AT3104D - Kaliningrad
DK2OM	3520,0	0744	30	10	E		USB			Spanish fishery
DK2OM	3525,0	1933	16	10			F1B	100	500	burst -
DK2OM	3525,5	1821	13	10	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3530,0	vt	dly	10			FSK8	125	1750	ALE, “11141”
DK2OM	3532,0	2010	17	10	F		PSK4	75	5800	Link11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	1935	13	10	E		USB			Spanish fishery
DK2OM	3535,0	1930	16	10	G		F1B	100	500	English Channel
DK2OM	3540,0	1855	14	10	E		USB			Spanish fishery – also: 25.10.2014 at 1845 utc
DK2OM	3542,9	2030	15	10	F		FSK8	125	1750	Thales 3000 – North France
DK2OM	3546,0	2059	19	10	RUS		PSK2A	120	2600	on CW: QRJ 3 - Penza
DK2OM	3548,0	1907	14	10	RUS		F1B	50	200	Kaliningrad
DK2OM	3550,0	vt	vd	10	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	<b>3550,0</b>	<b>vt</b>	<b>dly</b>	<b>10</b>	<b>F</b>		<b>A3E</b>			<b>French amateurs not respecting bandplans, every morning</b>
DK2OM	<b>3550,0</b>	<b>2058</b>	<b>16</b>	<b>10</b>	<b>F</b>		<b>A3E</b>			<b>French amateurs not respecting bandplans</b>
DK2OM	3553,8	ady	dly	10	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara – legal operation
DK2OM	3556,5	2335	15	10	G		USB			UK fishery SW of Ireland
DK2OM	3560,0	1934	24	10	I		USB			Italian pirates
DK2OM	3560,0	1630	26	10	E		USB			Spanish fishermen talking about ships – daily
DK2OM	3567,0	vt	dly	10	CHN ?		FSK8	125	1750	ALE, “103” “106”
DK2OM	3575,0	1939	27	10			USB			man in Russian voice
DK2OM	3576,4	ady	dly	10	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	ady	dly	10	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily - legal!
DK2OM	3586,0	1930	10	10	G		PSK2A	40	40	area of London – every evening

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3587,0	vt	vd	10	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	10	PAK	no ITU	FSK8	125	1750	ALE, "KW" "KHAIBAR" – Pakistan navy
DK2OM	3595,0	vt	dly	10	D		FSK8	125	1750	ALE – German customs
DK2OM	3595,0	1846	27	10	RUS		USB			woman in Russian voice – often spelling figures - St. Peterburg - daily
DK2OM	3596,0	vt	dly	10	D, S, HRV		FSK8	125	1750	ALE, "DK3CW" "SA6CBK" "9A0PZ" – just for info!
DK2OM	3617,0	vt	dly	10	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	10	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3642,0	1940	17	10	CHN		A1A			endless slip – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3712,0	1848	06	10	I		PSK8	2400	2400	Link11-SLEW on DSB mode – North-West Italy
DK2OM	3720,0	1918	10	10	S		FSK8	125	1750	ALE, "YU" "YT" "YV" "DZ" – Swedish MIL
DK2OM	3733,0	2005	22	10	RUS		F1B	75	250	Kaliningrad – space QRG disturbed by a Radio Amateur – stupid action!
DK2OM	3751,5	vt	dly	10	POL	no ITU	FSK8	125	1750	ALE, "IZ3" "MI3"
DK2OM	3756,0	1842	06	10	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10 – 3756.022 kHz
DK2OM	3761,5	vt	vd	10	POL		FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3782,0	ady	dly	10	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	3791,0	vt	vd	10	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – just for info!
DK2OM	6999,0	1944	10	10	G		USB			UK fishery – very rude and obscene – splattering up into HAM-band
DK2OM	7000,0	2040	18	10	?	no ITU	FSK8	125	1750	ALE, "210" "20989" "2205" "203"
DK2OM	7000,0	2125	25	10	I		LSB			Italian pirates – splattering up - daily
DK2OM	7000,0	2018	22	10	RUS	D	A1A			spurious from Cluster beacon – Sevastopol RUS Navy – "RCV"
DK2OM	7000,0	1905	07	10	I		PSK4	75	5800	Link11-CLEW on both sidebands (5800 Hz wide) – area of Rome
DK2OM	7000,0	1640	11	10	F		USB			French fishery – also 28.10.2014 at 0716 utc
DK2OM	7000,0	0821	12	10	I		USB			Italian pirates
DK2OM	7000,0	0710	21	10	HOL		USB			Dutch fishery
DK2OM	7000,0	1625	21	10	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7000,0	1933	21	10	ALG		USB			scrambler HC265
DK2OM	7000,0	2002	26	10	CHN		FMCW		160k	OTH radar - 10 sps – 6950 – 7110 kHz - burst of 51 and 102 sec duration - Urumqi
DK2OM	7000,0	2046	27	10	CHN		FMCW		160k	OTH radar – 10 sps – 6895 – 7055 kHz – 51 sec or 102 sec bursts – every 150 sec - Urumqi
DK2OM	7000,0	2049	27	10	CHN		FMCW		160k	OTH radar – 10 sps – 6989 – 7149 kHz – 51 sec or 102 sec bursts – every 150 sec - Urumqi
DK2OM	7001,5	1845	11	10	ALG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd – South Algeria – connecting mailbox
DK2OM	7002,0	1445	19	10	RUS		PSK2A	120	2600	Smolensk
DK2OM	7002,0	1506	28	10	RUS		PSK2A	120	2600	AT3004D – ship – Brents Sea
DK2OM	7014,0	1257	11	10	RUS		F1B	75	250	
DK2OM	7020,0	vt	vd	10	INS		LSB			Indonesian pirates – village

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
							<b>USB</b>			<b>radio – daily, all day</b>
DK2OM	7020,0	vt	vd	10	SE-EU		FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7032,0	0100	16	10	RUS		PSK2A	120	2600	AT3004D – UKR border
DK2OM	7038,7	ady	dly	10	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	ady	dly	10	RUS	P	A1A			Cluster beacon – 7038.780 kHz - Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	ady	dly	10	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	10	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,2	ady	dly	10	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	---	09	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	1646	29	10	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	10	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	<b>7040,0</b>	<b>ady</b>	<b>dly</b>	<b>10</b>	<b>I</b>		<b>A1A</b>			<b>IZ3DVW – uncoordinated and unwanted beacon</b>
DK2OM	7040,5	vt	dly	10	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	vt	vd	10	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	vt	dly	10	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7050,0	1630	22	10	UKR RUS		LSB			music and chats mentioning Ukraine - daily
DK2OM	7054,0	---	---	10	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – <b>not active</b>
DK2OM	7055,5	vt	vd	10	MEa	no ITU	FSK8	125	1750	ALE, “111” “132” “133” - Caucasus
DK2OM	7064,0	2050	03	10	RUS		PSK2A	120	2600	AT3004D - Vladivostok
DK2OM	7070,0	vt	dly	10	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7070,0	1640	29	10	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7077,4	2021	22	10	RUS	D	A1A			spurious from Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7086,0	1500	21	10	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7088,8	---	---	10	S	SL0FRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SL0FRO - just for info!
DK2OM	7089,8	---	---	10	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – area of Izmir
DK2OM	7091,5	1850	18	10	KAZ	V	A1A			beacon “V” continuous - Almaty
DK2OM	7092,0	vt	vd	10			FSK8	125	1750	ALE, “3014”
DK2OM	7099,5	vt	dly	10	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – daily - just for info!
DK2OM	7102,0	1903	08	10	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “9A2KS” “HB9MHB” “9A0ZG” “DK0ESD” – just for info!
DK2OM	7110,0	vt	dly	10	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	vt	dly	10			FSK8	125	1750	ALE, “1101” “1112”
DK2OM	7114,0	0320	15	10	RUS		F1B	50	200	Franz-Josef-Land
DK2OM	7117,0	1837	28	10	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident at full hour + 40 min. - daily, all day
DK2OM	7119,0	1505	28	10	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	<b>7120,0</b>	<b>1700</b>	<b>17</b>	<b>10</b>	<b>SOM</b>		<b>A3E</b>		<b>9k</b>	<b>Radio Hargaysa Somalia, daily</b>
DK2OM	7121,0	2305	15	10	CHN		PSK2A	60	2400	PRC30 burst – preamble 4 x

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
							LSB			PSK2A – pilotone 450 Hz
DK2OM	7137,0	vt	dly	10	TWN	no ITU	FSK8	125	1750	LSB – ALE, “ACCENT” “ABLAZE” “ABOUND” “AGHASt” “ARTIST” “ANYWAY” “ABJECT” “ADROIT” – Taiwanese navy – daily – various times - tnx for info: DL8AAM
DK2OM	7160,0	0326	15	10	RUS		PSK2A	120	2600	AT3004D - Jekaterinburg
DK2OM	7176,5	0405	15	10	RUS		PSK2A	120	2600	AT3004D – West Siberia
DK2OM	7179,0	1420	08	10	RUS		PSK4	120	2600	AT3104D - Sevastopol
DK2OM	7183,0	vt	dly	10	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7184,8	1930	09	10					3300	broadband system – 7182.8 – 7186.1 kHz -
DK2OM	7185,5	vt	dly	10	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	1408	08	10	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic –Severomorsk
DK2OM	7197,0	vt	dly	10	TUR	no ITU	FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” “3061” “3241” “8411” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	7197,0	2045	03	10	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	10100,8	ady	dly	10	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	1735	21	10	SNG		FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10110,0	1430	18	10	RUS		FMCW		67k	RUS OTH radar – 43.5 sps - 10110 – 10177 kHz - Makhachkala – Caspian Sea
DK2OM	10113,0	vt	dly	10	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0627	02	10	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	vd	10		no ITU	FSK8	125	1750	ALE, “2001” “2002”
DK2OM	10120,0	0629	02	10			PSK2	120	2600	AT3004D – modem idle -
DK2OM	10120,0	0657	10	10	E		USB			Spanish fishery – reported by CT2IWW
DK2OM	10121,0	1335	22	10	RUS		F1B	75	200	St. Peterburg
DK2OM	10121,6	1750	13	10	ALG		F1B	250	300	CHP 200 – also 19.10.2014 at 1751 utc
DK2OM	10123,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” ”CM2” “ESA”
DK2OM	10129,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10130,0	vt	dly	10	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10130,0	2000	dly	10	MLE	no ITU	FSK8	125	1750	ALE, “001” “068” – Kuala Lumpur
DK2OM	10133,0	0700	22	10	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic – south of Moscow
DK2OM	10134,0	1706	29	10	SUI		MFSK	46.95	3100	MFSK 2 x 34 tones – RUS emba Geneva
DK2OM	10136,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	10	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – <b>just for info!</b>
DK2OM	10145,0	1655	17	10	RUS		FMCW		10k	OTH radar 10 sps – Nizhny Novgorod
DK2OM	10145,5	vt	vd	10	HRV S / D F / G	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” “MIDFO”- just for info - daily
DK2OM	13999,0	1350	01	10	PHL		USB			Philippine pirates – splattering up
DK2OM	14000,0	1345	15	10	PHL		USB LSB			Philippine pirates – daily 1300 utc and later



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14000,0	2050	15	10	B		USB			Brazilian pirates - Natal
DK2OM	14001,8	vt	dly	10			F1B	100	170	14001.785 kHz - Codan selcal - idents: 9503 - 9504
DK2OM	14008,0	1350	03	10	RUS		F1B	100	200	idle - Moscow
DK2OM	14060,0	vt	vd	10	ISR	no ITU	FSK8	125	1750	ALE, "AAA" - Israel
DK2OM	14090,0	1557	16	10	RUS		FMCW		10k	OTH radar 10 sps - Nizhny Novgorod
DK2OM	14093,0	1254	17	10	RUS		FMCW		10k	OTH burst radar 10 sps - Nizhny Novgorod
DK2OM	14109,0	vt	dly	10	ISR	4X1	FSK8	125	1750	ALE, "4X1" "CT2IXQ" - just for info!
DK2OM	14109,0	vt	dly	10	CAN		FSK8	125	1750	ALE, "VE3GDZ" - just for info!
DK2OM	14171,0	0720	27	10	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	1556	05	10	RUS		F1B	50	200	RUS navy Kaliningrad - vd, vt
DK2OM	14205,0	vt	dly	10	CHN ?	no ITU	FSK8	125	1750	ALE, "505" "822" - 60 deg. from DL - CHN ?
DK2OM	14205,0	1629	16	10	RUS		FMCW		15k	OTH radar "Contayner" - 50 sps - Nizhny Novgorod - 76 kHz bandwidth with splatters
DK2OM	14210,0	0727	05	10	RUS		FMCW		15k	OTH radar 50 sps - Nizhny Novgorod
DK2OM	14210,0	1945	04	10	RUS		FMCW		15k	OTH radar Contayner - 50 sps - Nizhny Novgorod - also audible in USA and Australia
DK2OM	14230,0	0655	20	10	RUS		FMCW		15k	OTH radar 50 sps - Nizhny Novgorod - many spurious emissions
DK2OM	14260,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" - just for info!
DK2OM	14265,0	vt	vd	10	TUR		FSK8	125	1750	ALE, "526"
DK2OM	14269,0	1257	15	10	RUS		F1B	75	250	unclean - Kaliningrad
DK2OM	14270,0	1318	05	10	RUS		FMCW		15k	OTH radar "Contayner" - 50 sps - Nizhny Novgorod
DK2OM	14275,8	1140	28	10	CHN		OFDM	44.44	2200	OFDM39 and voice - Central China
DK2OM	14294,0	1215	27	10	RUS		PSK2A	120	2600	AT3004D - Kaluga
DK2OM	14295,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" - just for info!
DK2OM	14295,1	1358	01	10	TJK		A3E			3 <sup>rd</sup> from Radio Tajik on 4765 kHz - daily, all day
DK2OM	14310,0	1344	15	10	RUS		FMCW		10k	OTH radar 10 sps - Nizhny Novgorod
DK2OM	14312,0	1829	03	10	RUS		FMCW		15k	OTH radar "Contayner" - 50 sps - Nizhny Novgorod - even audible in Ohio, USA
DK2OM	14317,0	vt	vd	10	RUS	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14322,0	vt	dly	10	CHN	no ITU	FSK8	125	1750	ALE, "402"
DK2OM	14328,0	vt	dly	10	CHN	no ITU	FSK8	125	1750	ALE, "139" "534" "772" - West China
DK2OM	14330,0	vt	dly	10			FSK8	125	1750	ALE, "BV4"
DK2OM	14344,7	1450	30	10	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short - 14344.650 kHz - daily, all day
DK2OM	14346,0	vt	dly	10	HRV RUS D		FSK8	125	1750	ALE, "9A0ZG" "RX3ARZ" "DK0ESD" - just for info - various times, daily
DK2OM	14346,0	vt	dly	10	THA	HSOZEA	A1A			HSOZEA beacon - 14345.950 kHz - every 5 minutes - just for info!
DK2OM	14347,0	0600	06	10	RUS		FMCW		15k	OTH radar 50 sps - Nizhny Novgorod
DK2OM	18080,0	0600	dly	10	TWN CHN	SOH	A3E		9k	Sound of Hope / Taiwan and Chinese mainland BC
DK2OM	18100,0	1614	09	10	MRC	no ITU	FSK8	125	1750	ALE, "CD" "C3" "R3" "G3" "E4" "E5" "Z2" "FORD" - daily, various times
DK2OM	18107,0	0803	01	10	RUS	RDL	F1B	50	200	Moscow - idle and traffic - Russian navy - various days

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										and times – legal operation
DK2OM	18117,5	vt	vd	10	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	10	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	0824	17	10	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic – daily, vt
DK2OM	21000,0	1930	vd	10	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – every Saturday
DK2OM	21000,0	1557	03	10	INS		USB			Indonesian pirates - daily
DK2OM	21000,0	vt	dly	10	RUS		USB			voice scrambler Yakhta – Nizhny Tagil
DK2OM	21000,0	vt	vd	10	F		FMCW			OTH radar – 6 sps bursts – South France – full hour 02 min. and then every 15 min.
DK2OM	21001,5	0800	01	10	RUS		F1B	100	150	voice scrambler Yakhta – F1B inband synchro – Nizhny Tagil
DK2OM	21002,0	1745	27	10	MRC		USB			Moroccan fishery
DK2OM	21002,1	vt	vd	10	SDN	!0000	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt
DK2OM	21020,0	1913	14	10	B		USB			distorted voice traffic
DK2OM	21096,0	vt	dly	10	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	0805	01	10	RUS		F1B	75	500	harmonic from 10548 kHz
DK2OM	21131,0	vt	vd	10	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese Navy?
DK2OM	21145,0	0811	11	10	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	vt	dly	10	I	IZ3DVW	A1A			21145.764 kHz – IZ3DVW uncoordinated and unwanted beacon
DK2OM	21272,0	0710	28	10	RUS		PSK2A	120	2600	AT304D - Tambow
DK2OM	21281,0	1023	23	10	AUS		FMCW		10k	Australian OTH burst radar JORN – 35 sps – 1.8 sec bursts
DK2OM	21336,0	0801	20	10	CHN		FMCW		10k	Chinese OTH burst radar - 48 and 50 sps – 5 sec bursts
DK2OM	21346,0	ady	dly	10	THA	HS0ZEA	A1A			beacon “HS0ZEA” – just for info!
DK2OM	21409,5	vt	vd	10	RUS		F1B	100	2000	21409,5 - F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21420,0	0830	11	10	IRN	IRIB	A3E			distorted spurious from 21525.0 “Voice of Iran” – also on 21630 kHz – daily at 0820 utc
DK2OM	21435,0	1040	Tues days	10	CHN		A3E		20k	spurious from Radio Free Asia and Chinese jammer on 21455 kHz
DK2OM	21438,0	0741	14	10	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21442,0	1006	14	10			A3E			splatters from 21455 kHz – Radio Free Asia
DK2OM	21446,0	ady	dly	10	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	24970,0	1324	16	10	CYP		FMCW		20k	OTH radar Cyprus - 25 sps
DK2OM	25000,0	ady	dly	10	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	dly	10	CIS		F3E			28000 – 29700 numerous CIS taxi nets – mostly Russia
DK2OM	28000,0	ady	dly	10	B		A3E			Brazilian CBers – 28000 – 28315 – no change

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28000,0	1430	09	10	TUR		FMCW		40k	OTHR - 12.5 sps – West Turkey
DK2OM	28000,0	0855	24	10	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28000,0	0900	19	10	SDN		USB			male persons - Khartoum
DK2OM	28005,0	vt	dly	10	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28015,0	1557	08	10	F		F3E			French CBers
DK2OM	28025,0	1526	03	10	POR		F1B	51	300	F1B bursts - 28100.160 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	1406	16	10	RUS		F3E			Russian taxi
DK2OM	28030,0	0855	22	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28035,0	vt	dly	10	RUS		F3E			taxi Moscow - daily
DK2OM	28045,0	1526	03	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	1252	14	10	RUS		F3E			Russian taxi
DK2OM	28050,0	1500	06	10	POR		F1B	51		F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	1621	05	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28055,0	1035	02	10	RUS		F3E			taxi Moscow - daily
DK2OM	28060,0	1420	30	10	RUS		F3E			Russian taxi
DK2OM	28065,0	1033	12	10	RUS		F3E			taxi Moscow - daily
DK2OM	28065,0	1929	09	10	MEX		A3E			pirates from Mexico via remote USA
DK2OM	28065,0	1445	28	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	vt	dly	10	RUS		F3E			Russian taxi
DK2OM	28085,0	1603	05	10	E		A3E			Spanish CBers
DK2OM	28085,0	0940	31	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28090,0	1310	15	10	RUS		F3E			Russian taxi
DK2OM	28095,0	1256	14	10	RUS		F3E			Russian taxi
DK2OM	28101,0	ady	dly	10	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28105,0	1530	08	10	RUS		F3E			taxi Moscow
DK2OM	28115,0	1030	01	10	RUS		F3E			taxi – Kazan – daily – disturbing AFU PSK on 28120
DK2OM	28125,0	1604	02	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28130,0	0943	15	10	RUS		F3E			Russian taxi
DK2OM	28135,0	1004	02	10	RUS		F3E			taxi – Barnaul - daily
DK2OM	28145,0	1323	05	10	RUS		F3E			RUS taxi - daily
DK2OM	28146,0	vt	vd	10	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28150,0	0912	26	10	RUS		F3E			Russian taxi
DK2OM	28155,0	0840	05	10	RUS		F3E			taxi Moscow
DK2OM	28165,0	1554	10	10	RUS		F3E			Russian taxi
DK2OM	28170,0	0950	19	10	RUS		F3E			Russian taxi
DK2OM	28175,0	1351	05	10	RUS		F3E			Russian taxi Ufa
DK2OM	28185,0	0926	09	10	RUS		F3E			Russian taxi - daily
DK2OM	28190,0	0753	14	10	RUS		F3E			Russian taxi
DK2OM	28195,0	ady	dly	10	RUS		FM			Russian taxi
DK2OM	28200,0	0905	22	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28205,0	1442	11	10	RUS		F3E			Russian taxi Saransk
DK2OM	28215,0	1444	11	10	RUS		F3E			Russian taxi
DK2OM	28225,0	1000	19	10	RUS		F3E			Russian taxi
DK2OM	28235,0	0947	08	10	RUS		F3E			Russian taxi
DK2OM	28245,0	1318	14	10	E		A3E			Spanish CBers
DK2OM	28255,0	1243	18	10	RUS		F3E			Russian taxi
DK2OM	28260,0	1514	10	10	RUS		F3E			Russian taxi
DK2OM	28265,0	1434	04	10	RUS		F3E			taxi Moscow
DK2OM	28275,0	1433	10	10	RUS		F3E			Russian taxi
DK2OM	28275,1	vt	dly	10	AF		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28285,0	1033	02	10	RUS		F3E			taxi Moscow
DK2OM	28305,0	1020	16	10	RUS		F3E			taxi Arkhangelsk
DK2OM	28310,0	1315	16	10	TUR		FMCW		20k	OTH radar West Turkey - 50 sps
DK2OM	28315,0	vt	dly	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28325,0	1258	01	10	RUS		F3E			Russian taxi
DK2OM	28335,0	0830	16	10	RUS		F3E			Russian taxi
DK2OM	28350,0	0914	11	10	FEa		F3E			Far East pirates
DK2OM	28365,0	1007	05	10	RUS		F3E			Russian taxi - daily
DK2OM	<b>28435,0</b>	<b>1311</b>	<b>18</b>	<b>10</b>	<b>E</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga</b>
DK2OM	28500,0	1343	08	10			FMCW		20k	50 and 25 sps -
DK2OM	28500,0	1343	08	10	TUR		FMCW		20k	OTH radar – 25 and 50 sps – West Turkey
DK2OM	28600,0	1205	01	10	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 400kHz – also audible in USA east-coast, Chile and Australia
DK2OM	28720,0	1019	04	10	RUS		F3E			Russian taxi
DK2OM	28735,0	1515	10	10	RUS		F3E			Russian taxi
DK2OM	28760,0	0714	19	10	RUS		F3E			Russian taxi
DK2OM	28775,0	0922	19	10	RUS		F3E			Russian taxi
DK2OM	28785,0	1035	11	10	RUS		F3E			Russian taxi
DK2OM	28790,0	0912	11	10	FEa		F3E			Far East pirates
DK2OM	28795,0	1517	10	10	RUS		F3E			Russian taxi
DK2OM	28815,0	1422	09	10	RUS		F3E			Russian taxi
DK2OM	28835,0	1518	10	10	RUS		F3E			Russian taxi
DK2OM	28855,0	1016	04	10	RUS		F3E			Russian taxi - daily
DK2OM	28860,0	0826	20	10	RUS		F3E			Russian taxi
DK2OM	28860,0	0828	20	10	RUS		F3E			Russian taxi
DK2OM	28870,0	1305	18	10	RUS		F3E			RUS taxi
DK2OM	28895,0	1450	07	10	RUS		F3E			Russian taxi
DK2OM	28915,0	1018	20	10	RUS		F3E			Russian taxi
DK2OM	28925,0	1505	07	10	RUS		F3E			Russian taxi
DK2OM	28935,0	1304	17	10	RUS		F3E			Russian taxi
DK2OM	28945,0	1504	07	10	RUS		F3E			Russian taxi
DK2OM	28955,0	1505	10	10	RUS		F3E			Russian taxi
DK2OM	28965,0	1527	10	10	RUS		F3E			Russian taxi
DK2OM	28995,0	1506	10	10	RUS		F3E			Russian taxi
DK2OM	29005,0	1350	11	10	RUS		F3E			Russian taxi - daily
DK2OM	29015,0	1411	11	10	RUS		F3E			Russian taxi
DK2OM	29035,0	1303	17	10	RUS		F3E			Russian taxi
DK2OM	29045,0	1520	10	10	RUS		F3E			Russian taxi
DK2OM	29055,0	1458	1	10	RUS		F3E			Russian taxi
DK2OM	29065,0	1443	10	10	RUS		F3E			Russian taxi
DK2OM	29075,0	1453	10	10	RUS		F3E			Russian taxi
DK2OM	29075,0	0906	11	10	FEa		F3E			Far East pirates
DK2OM	29115,0	0825	20	10	RUS		F3E			Russian taxi
DK2OM	29120,0	1455	10	10	RUS		F3E			Russian taxi
DK2OM	29125,0	1508	10	10	RUS		F3E			Russian taxi
DK2OM	29130,0	0838	20	10	RUS		F3E			Russian taxi
DK2OM	29135,0	1239	18	10	RUS		F3E			Russian taxi

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	29140,0	0820	20	10	RUS		F3E			Russian taxi
DK2OM	29150,0	0819	20	10	RUS		F3E			Russian taxi
DK2OM	29195,0	0907	11	10	RUS		F3E			Russian taxi
DK2OM	29200,0	1015	11	10	RUS		F3E			Russian taxi
DK2OM	29215,0	1818	09	10	RUS		F3E			Russian taxi
DK2OM	29225,0	1449	10	10	RUS		F3E			Russian taxi
DK2OM	29230,0	1526	10	10	RUS		F3E			Russian taxi
DK2OM	29235,0	0817	20	10	RUS		F3E			Russian taxi
DK2OM	<b>29250,0</b>	<b>0900</b>	<b>26</b>	<b>10</b>	<b>E</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day</b>
DK2OM	29265,0	1307	17	10	RUS		F3E			Russian taxi
DK2OM	29275,0	1524	10	10	RUS		F3E			Russian taxi
DK2OM	29300,0	0818	20	10	RUS		F3E			Russian taxi
DK2OM	29310,0	1349	15	10	CYP		FMCW		20k	OTH radar Cyprus - 50 sps
DK2OM	29325,0	1458	06	10	GEO		F3E			unid voice traffic - Georgia
DK2OM	29325,0	0940	10	10	RUS		F3E			Russian taxi
DK2OM	29335,0	1450	10	10	RUS		F3E			Russian taxi
DK2OM	29350,0	0822	20	10	RUS		F3E			Russian taxi
DK2OM	29355,0	1510	10	10	RUS		F3E			Russian taxi
DK2OM	<b>29375,0</b>	<b>1432</b>	<b>19</b>	<b>10</b>	<b>I</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day</b>
DK2OM	29375,0	0950	12	10	FEa		F3E			Far East pirates
DK2OM	<b>29387,5</b>	---	--	<b>10</b>	<b>IND</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day</b>
DK2OM	29405,0	1509	10	10	RUS		F3E			Russian taxi
DK2OM	29417,6	1208	01	10	FEa		A3E			Far East pirates
DK2OM	29435,0	1609	08	10	RUS		F3E			Russian taxi
DK2OM	<b>29450,0</b>	---	--	<b>10</b>	<b>MRC</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day</b>
DK2OM	29455,0	1511	10	10	RUS		F3E			Russian taxi
DK2OM	29475,0	1523	10	10	RUS		F3E			Russian taxi
DK2OM	<b>29500,0</b>	---	--	<b>10</b>	<b>G</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – area of Gibraltar – daily, all day</b>
DK2OM	<b>29525,0</b>	---	---	<b>09</b>	<b>MRC</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day</b>
DK2OM	29535,0	1309	17	10	RUS		F3E			Russian taxi
DK2OM	29545,0	0909	11	10	RUS		F3E			Russian taxi
DK2OM	29565,0	0910	11	10	RUS		F3E			Russian taxi
DK2OM	29575,0	1308	17	10	RUS		F3E			Russian taxi
DK2OM	29585,0	0930	18	10	RUS		F3E			Russian taxi
DK2OM	29660,0	1025	07	10	RUS		F1B	50	1000	harmonic from 14830 kHz - Krasnoyarsk
DK2OM	29685,5	1313	18	10	I				2000	serial modem, Italian MIL Brescia – report: SWL
DK2OM	29699,8	1314	18	10	I				2000	serial modem, Italian MIL Brescia - report: SWL

**IRTS – Ireland – EI9GSB (Lisa)**

**KARS – Kuwait – 9K2RR (Faisal)**

## MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3542,0	1706	19	10			A1A			"OKII/B, T12C S19C U3R5"
MRASZ	3570,0	1828	17	10			LSB			numbers, russian lang.
MRASZ	3585,0	1707	27	10			A1A			"74453 11587" "NNNNN = 944 26 ="
MRASZ	3585,0	1702	28	10			A1A			"089XX 36362 3089X RRRRR 207XX"
MRASZ	3720,0	1954	9	10			A2A			"2T195 29562 29562 529T5 529T5"
MRASZ	7000,0	1624	19	10			PSK2			AT3004D
MRASZ	7000,0	2026	27	10			OTHR			very wide, till 7055 kHz
MRASZ	7000,1	1453	23	10	UKR	D	A1A			"D" beacon, hrd: 27, 28
MRASZ	7033,0	1703	10	10			LSB			"allo allo" tuning
MRASZ	7038,7	vt	ady	9	UKR	D	A1A			"D" beacon, sometimes "wrong" letter
MRASZ	7039,0	1810	17	10	RUS	C	A1A			"C" beacon
MRASZ	7046,0	1719	23	10			LSB			unidentified lang. hams
MRASZ	7050,0	vt	ady	10	UKR		LSB			ukr. "revolution" hrd almost every evening
MRASZ	7055,0	vt	ady	10	UKR		LSB			ukr. "revolution" hrd almost every evening
MRASZ	7057,0	1810	17	10	ITA		LSB			italian hams
MRASZ	7077,3	1848	27	10	UKR	D	A1A			"D" beacon, hrd 28
MRASZ	7080,0	1844	27	10			F1B			
MRASZ	7090,0	1845	28	10			OTHR			7010-7170 kHz
MRASZ	7091,5	1649	18	10			A1A			slowly V string, hrd: 19, 26
MRASZ	7114,0	1703	15	10			F1B			
MRASZ	7114,0	1706	16	10			N0N			
MRASZ	7114,0	1845	28	10			F1B			
MRASZ	7117,0	vt	ady	10	RUS		F1B	100	1000	Russian Navy, hrd every day
MRASZ	7120,0	vt	ady	10	SOM		A3E			BC, Radio Hargaysa
MRASZ	7186,0	1942	8	10			PSK2			AT3004D
MRASZ	7199,0	1858	8	10			A3E			music, chinese?
MRASZ	7200,0	1859	12	10			A3E			splatter 5 kHz down
MRASZ	14179,0	1653	23	10			F1B			
MRASZ	14179,0	1000	24	10			F1B			
MRASZ	14192,0	1238	24	10			F1B		200	
MRASZ	14192,0	1325	25	10			F1B		200	
MRASZ	14192,0	1600	25	10			F1B		200	
MRASZ	14200,0	0921	15	10			OTHR			
MRASZ	14260,0	1720	16	10			OTHR			14250-14270 kHz
MRASZ	14290,0	1546	19	10			OTHR			14275-14305 kHz
MRASZ	14290,0	1600	25	10			OTHR			
MRASZ	14295,1	1659	9	10	TJK		A3E			R. Tajikistan, 3x4765 kHz, hrd 13,15,17,25
MRASZ	14305,0	1851	25	10			USB			music QRM
MRASZ	14330,0	0921	15	10			OTHR			
MRASZ	18107,0	1145	24	10			F1B		200	
MRASZ	21001,5	0917	15	10			F1B	100	150	Yakhta vocoder
MRASZ	28000,0	0956	24	10			OTHR			till 28030 kHz

## OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	3550.0	0558	30	10	F	unid	A3A			french group
oevsv	14027.5	0610	30	10	unid	unid	A1A			groups of 5, rough tone
oevsv	14191.0	1800	31	10	unid	unid	F1B	100	250	
oevsv	14192.0	1310	26	10	unid	unid	F1B	100	250	frequently idling
oevsv	28800.0	0547	30	10	unid	unid	F1B			2 tones alternating

## PZK – Poland – SP9BRP (Jan)

## REF 1 – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh Hz	DETAILS
REF	14130	0822	15	10			fmcw			Bw 30kHz pulsed OTHR ? S7
REF	14350	0740	6	10			fmcw			Bw 20kHz OTHR Mil S9+
REF	21001,5	0814	03	10			RTTY	?	200	Synchro scrambler ?
REF	21130	0815	15	10			fmcw			Bw 20kHz OTHR Mil S7
REF	21170	0749	8	10			fmcw			Bw 20kHz OTHR Mil S9
REF	25000	1610	03	10			fmcw			Bw 20kHz OTHR Mil S6
REF	28000	0756	24	10			fmcw			Bw 100kHz pulsed 310/870Hz, OTHR S5
REF	28000	0800	25	10			fmcw			Bw 100kHz pulsed 310/870Hz, OTHR S5
REF	28000	0755	28	10			fmcw			Bw 150kHz pulsed 310/870Hz, OTHR S7
REF	28000	0850	29	10			fmcw			Bw 150kHz OTHR S9
REF	28110	0850	29	10			fmcw			Bw 20kHz, OTHR S3
REF	28465	0749	02	10			fmcw			Bw 20kHz OTHR Mil S5
REF	28470	0850	29	10			fmcw			Bw 20kHz, OTHR S6
REF	28475	0735	10	10			fmcw			Bw 20kHz OTHR Mil S4
REF	28550	0800	6	10			fmcw			Bw 20kHz OTHR Mil S7
REF	28573	0915	30	10			CW			Wild carrier +/- 10kHz and more some time
REF	28590	0810	15	10			fmcw			Bw 25kHz OTHR Mil S6
REF	28600	1620	25	10			fmcw			Bw 150kHz pulsed 310/870Hz, OTHR S6 bearing 45°
REF	28850	0922	30	10		Iran	fmcw			Bw 150kHz pulsed 310/870Hz, OTHR S7
REF	29220	0820	6	10			fmcw			Bw 20kHz OTHR Mil S6
REF	29550	0745	8	10			fmcw			Bw 20kHz OTHR Mil S8 40Hz
REF	29650	0731	20	10			fmcw			Bw 25kHz pulsed OTHR ? S9

## REF 2 – France – F5JBR (Andre)

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3548	07.34	10	10	E		J3E-U			Spanish fishery
REP	<b>3550</b>	<b>07.35</b>	<b>10</b>	<b>10</b>	<b>F</b>		<b>A3E</b>			<b>French Hams not observing Bandplan</b>
REP	3570	07.11	10	10			J3E-U			Fishermen
REP	3775	07.31	24	10	E		J3E-U			Spanish fishery
REP	<b>7001</b>	<b>18.45</b>	<b>29</b>	<b>10</b>	<b>I</b>		<b>J3E-U</b>			<b>Pirates inside 40m Ham Band</b>
REP	7038	22.32	08	10	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038	23.06	02	10	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038	23.58	02	10	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039	23.26	02	10	RUS	F	A1A			KAMCHATSKY, ADY, DLY
REP	7039	22.50	11	10	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7041	21.18	11	10	RUS	L	A1A			St PETERSBURG, ADY, DLY
REP	<b>7070</b>	<b>16.50</b>	<b>31</b>	<b>10</b>			<b>J3E-L</b>			<b>Music jamming QSOs</b>
REP	<b>7070</b>	<b>16.12</b>	<b>05</b>	<b>10</b>			<b>J3E-L</b>			<b>Music jamming QSOs</b>
REP	10115	17.05	20	10	MRC		J3E-U			Moroccan fishery
REP	10120	06.57	11	10	E		J3E-U			Spanish fishery
REP	10140	13.02	10	10	E		J3E-U			Spanish fishery
REP	14120	17.00	06	10			FMCW			OTH radar 20kHz wide
REP	14150	08.22	09	10	RUS		F1B	75	250	Russian Mil station
REP	14192	07.21	24	10	RUS		F1B	50	200	Russian Mil FSK
REP	14195	07.57	88	10	RUS		F1B	50	200	Navy encrypted

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	14205	08.43	18	10			FMCW			OTH radar
REP	14240	09.12	09	10	RUS		F1B	75	250	Russian Mil station
REP	14240	08.07	30	10			F1B	75	250	Unid FSK
REP	14275	07.30	17	10			FMCW			Short burst OTH radar
REP	14317	11.48	24	10			A3E			Numbers station in English
REP	18100	20.06	04	10	B		J3E-U			Brazilian fishermen
REP	21001	15.00	10	10	RUS		F1B	100	200	Yakhata vocoder
REP	21002	18.51	10	10			FMCW			OTH radar 20kHz 50sps
REP	21150	12.16	06	10			FMCW			OTH radar 20kHz wide
REP	24965	08.20	30	10			FMCW			OTH radar 50sps/20kHz
REP	24975	12.29	01	10	B		J3E-L			Brazilians not hams
REP	28035	09.21	15	10	B		A3E			Brazilian CB
REP	28050	17.00	03	10	E		F1B			Spanish Enagal buoy
REP	28055	14.22	03	10	RUS		F3E			Russian YL taxi dispatcher
REP	28076	16.30	14	10			A1A			“Ditter” jamming JT65A QSO’s
REP	28125	16.31	09	10	B		A3E			Brazilian ops disturbing WSPR MEPT
REP	28155	09.14	03	10	RUS		F3E			Russian dispatcher
REP	28195	10.40	28	10			F3E			YL taxis dispatcher
REP	28277	21.20	04	10			F1B	50	270	Enagal buoy
REP	28305	07.52	14	10	RUS		F3E			Russian taxi dispatcher
REP	28560	11.36	11	10	RUS		F3E			Russian taxi service, keying 29660 repeaters
REP	28970	17.33	09	10	RUS		F3E			Russian taxi dispatcher
REP	29090	13.13	15	10			FMCW			OTH radar 25sps/15kHz
REP	29250	09.10	23	10			F1B	82	110	Datawell Waverider buoey
REP	29310	13.52	15	10	CYP		FMCW			OTH radar 50sps/20kHz - Cyprus
REP	29520	16.07	15	10			F3E			Trumpet player jamming NY 29620 rpt
REP	29575	16..30	12	10	RUS		F3E			Russian taxi dispatcher
REP	29692	12.06	06	10			N0N			Long sequence of apparently random tones
REP	28xxx	29xxx	daily	10			FMCW			OTH radars from 15kHz to 100kHz BW
REP	28xxx	29xxx	daily	10	RUS		F3E			Russian taxi dispatchers
REP	28xxx	29xxx	daily	10	B		A3E/J3E			Brazilian CB

## RSGB - Great Britain – M0VRR (Vaughan)

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7007,86	0550-0615/	23.	10		UiCarr	N0N			
SRAL	7008,0	1400-1700	4. 22.	10		UiPTR	F1B		250	
SRAL	7012,0	1455	12.	10		UiMUX	PSK2	120	2600	
SRAL	7013,0	0545-1430	13. 14.	10		UiMUX	PSK2	120	2600	
SRAL	7016,0	0650-1800	*	10		UiPTR	F1B		250	Days: 7. 9. 11. 17. 21.
SRAL	7020,0	0930-1800	*	10		UiPTR	F1B		250	Days: 7. 11. 16.
SRAL	7020,0	1105	15.	10		UiMUX	PSK2	120	2600	
SRAL	7026,0	1620	21.	10		UiMUX	PSK2	120	2600	
SRAL	7030,0	0600-1600	*	10		UiPTR	F1B		250	Days: 3. 11. 21. 23.
SRAL	7032,0	0530-1920	*	10		UiMUX	PSK2	120	2600	Days: 10. 11. 15. 16.
SRAL	7034,0	1755	7.	10		UiMUX	PSK2	120	2600	
SRAL	7034,5	1415	27.	10		UiMUX	PSK2	120	2600	
SRAL	7037,0	0450-1430	13. 29.	10	RUS	UiMUX	PSK2	120	2600	



Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7038,7	h24	dly	10	RUS	D	A1A			Sevastopol, 21.-31. Spur +/- 38,7 kHz
SRAL	7038,8			10	RUS	P	A1A			Kaliningrad, not heard
SRAL	7038,9	0800-1300	4. 18.	10	RUS	S	A1A			Severomorsk
SRAL	7039,0	0430-1930	*	10	RUS	C	A1A			Moscow, days: 1. - 10. 18. 28.
SRAL	7049,0	1145-1315	3. 18.	10		UiPTR	F1B			
SRAL	7059,0	0615-1130	*	10		UiPTR	F1B		250	Days: 2. 8. 14. 19. 21. 30.
SRAL	7061,0	0645-0900	*	10		UiMUX	PSK2	120	2600	Days: 14. 20. 21.
SRAL	7076,0	0940-1330	16.	10		UiPTR	F1B		250	
SRAL	7080,0	1550-1850	5. 6.	10		UiPTR	F1B/A			MR
SRAL	7084,0	1100-1300	21.	10		UiPTR	F1B		200	
SRAL	7100,0	1045-1300	23.	10		UiCarr	N0N			
SRAL	7114,0	1530-1847/	*	10		UiPTR	F1B/N0N		200	Days: 13. 15. 16.
SRAL	7114,0	0520-0700	17. 26.	10		UiMUX	PSK2	120	2600	
SRAL	7117,0	1300-0115	dly	10	RUS	RAE4	F1B		1000	
SRAL	7120,0	0330-0430	dly	10	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1445-1900	dly	10	SOM	R. Hargeisa	A3E			
SRAL	7126,0	0800	12.	10		UiCW	A1A			
SRAL	7127,0	1310	13.	10		UiMUX	PSK2	120	2600	
SRAL	7132,0	0800	13.	10		UiPTR	F1B			
SRAL	7138,0	1145	30.	10		UiPTR	F1B		200	
SRAL	7142,0	0945-1600	7. 21.	10		UiMUX	PSK2	120	2600	
SRAL	7150,0	0940-0957/	28.	10		UiPTR	F1B		500	
SRAL	7152,0	0445-1715	*	10		UiMUX	PSK2	120	2600	Days: 10. - 14. 17.
SRAL	7153,0	0430-1130	2. 3.	10		UiMUX	PSK2	120	2600	
SRAL	7160,0	0630-1330	*	10	RUS	RMW32	A1A			MR 5BL 5F, days: 5. 10. 21. 22.
SRAL	7162,0	0550-1200	*	10		UiPTR	F1B			Days: 3. 11. 16. 21.
SRAL	7162,0	0420	15.	10		UiMUX	PSK2	120	2600	
SRAL	7174,0	1245	4.	10		UiPTR	F1A			
SRAL	7177,0	0615-0700	19.	10		UiMUX	PSK2	120	2600	
SRAL	7186,0	0200-1930	*	10		UiMUX	PSK2	120	2600	Days: 1. 3. 6. - 9.
SRAL	7192,0	0040	22.	10		UiPTR	F1B			
SRAL	7196,0	0805-1215	*	10		XTNO	A1A			Days: 8. 9. 14. 24.
SRAL	7196,65	1230-1310	8.	10		UiCarr	N0N			
SRAL	7197,0	0655-1155	16.	10		UiMUX	PSK2	120	2600	
SRAL	7199,8	0800-1600	*	10		UiPirate	A3E			Days: 10. 11. 18. - 31. Russian MX
SRAL	7200,0	2200-2350	10	10	IRN	IRIB	A3E			
SRAL	7200,0	/1520-1620/	26.-31.	10		UiBC	A3E			IRIB?
SRAL	14000,0	0605-0920	15. 16.	10		UiCarr	N0N			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	14002,0	0700-1315	*	10		UiMUX	PSK2	120	2600	Days: 13. 14. 24.
SRAL	14005,0	1015-1115	22.	10		UiMUX	PSK2	120	2600	
SRAL	14008,0	0915-1400/	3. 8.	10		UiPTR	F1B		500	
SRAL	14019,2	0915-1310	7. 8.	10		UiPTR	F1B		170	idling
SRAL	14026,0	0635	22.	10		UiMUX	PSK2	120	2600	
SRAL	14031,0	0540	23.	10		UiMUX	PSK2	120	2600	
SRAL	14133,0	0630-1240/	22.	10		OJGO	A1A			MR 5BL
SRAL	14137,0	1230	16.	10	RUS	RYI	A1A			
SRAL	14160,0	0600-1250	*	10	RUS	UiPTR	F1B		250	Days: 18. 19. 30.
SRAL	14180,0	0445-1900	dly	10	RUS	RDL	F1B/A		200	MR 5F
SRAL	14192,0	0755-1420	25.-31.	10	RUS	UiPTR	F1B		200	
SRAL	14212,0	1210-1217/	16. 23.	10		425	R3E-u			Synth. VOX
SRAL	14213,0	1210-1217/	9.	10		425	R3E-u			Synth. VOX
SRAL	14240,0	0755-1230	8. 30.	10		UiPTR	F1B		250	
SRAL	14260,0	0800-0806/	16.	10		UiVOX	R3E-u			Synth. English 5F
SRAL	14278,0	0820-0850	23.	10		UiCW	A1A			MR 5BL
SRAL	14272,0	1145	30.	10		UiCW	A1A			MR 5BL
SRAL	14295,2	0345-1930	dly	10	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14 MHz	0200-1930	dly	10	RUS	29B6	FMCW			50Hz / 15 kHz
SRAL	14 MHz	0530-1530	dly	10	RUS	UiOTHR	FMCW			10Hz / 15 kHz, mostly 30 sec bursts
SRAL	18 MHz	0600-1330	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 2. 13. 16. 20. 24. 28.
SRAL	18080,0	0635-0700	*	10	TWN/ CHN	2 x BC	A3E			Days: 8. 17. 21.
SRAL	18107,0	0445-1900	dly	10	RUS	RDL	F1B/A		200	MR 5F
SRAL	21 MHz	0600-1515	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 3. 4. 6. 12. 14. 15. 17. 18. 21. 27. 29.
SRAL	21001,5	0500-1600	dly	10	RUS	Uisync.	F1B		140	
SRAL	21438,0	0745-1320	*	10	RUS	RCV	A1A			Days: 14. 16. 21.
SRAL	24 MHz	0800-1407/	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 16. 23. 30.
SRAL	28 MHz	0630-1500	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 8. 15. 16. 17. 19. 24. 25. 28. 29.
SRAL	28 MHz	0700-1545	dly	10	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz
SRAL	28 MHz	0650-1415	*	10	RUS	Taxi disp.	F3E			Days: 4. 7. 11. 17. 18. 26. - 31. 140 reports

### **USKA – Switzerland – HB9CET (Peter)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2132	10	10		D	A1A			Beacon D, spurious of 7038.7 daily
USKA	7000.0	0844	14	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7000.5	1743	27	10			F1B	50	200	ARQ system
USKA	7001.3	0920	14	10			N0N			long lasting carrier, set over the Pilotone of the CIS12: Jammer
USKA	7002.0	1433	19	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7006.5	0848	14	10			F1B	50	500	
USKA	7007.0	1452	21	10			F1B	75	250	
USKA	7009.0	2128	21	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7010.0	2347	12	10		810499	MFSK8	125	1750	MIL 188-141A often
USKA	7010.0	0008	13	10		21208	MFSK8	125	1750	MIL 188-141A often
USKA	7015.875	1309	11	10			A1A			Dots splattering ~2.4kHz!
USKA	7016.0	1309	11	10			F1B	75	250	jammed by "dotter"
USKA	7017.0	2129	21	10			J7D		2k7	CIS12 system idling
USKA	7020.0	1006	16	10			F1B	75	250	
USKA	7020.0	2013	19	10		810699	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	0116	20	10		820699	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	0051	21	10		813199	MFSK8	125	1750	MIL 188-141A
USKA	7021.0	1116	15	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7032.0	1519	15	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7038.7	1602	03	10	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	1603	03	10	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.2	2021	03	10	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	2022	03	10	RUS	M	A1A			Beacon M Magadan daily
USKA	7050.0	1607	10	10			J3E-L			Music, voice, QRM often
USKA	7059.0	0812	14	10			F1B	75	250	
USKA	7061.0	0807	14	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7064.0	2028	03	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7070.0	1743	29	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D with carrier at 7086.0
USKA	7077.4	2146	10	10		D	A1A			Beacon D spurious of 7038.7 daily
USKA	7080.0	1655	05	10			F1B	50	200	often
USKA	7080.1	1655	05	10			A1A			Dots only, splattering ~ 2kHz
USKA	7084.0	2327	27	10			FMCW	10 sps	160k	OTHR, occupying 160kHz!
USKA	7086.0	1508	21	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7089.8	1608	10	10			G1D	2400	2k4	PSK-8: Link 11- SLEW often
USKA	7090.0	1657	28	10			FMCW	10 sps	160k	OTHR, occupying 160 kHz!
USKA	7091.500	2128	18	10		V	A1A			Beacon ID "V"
USKA	7114.0	2234	14	10			F1B	50	200	often
USKA	7117.0	1653	05	10			F1B	100	1000	daily
USKA	7120.0	1749	29	10	SOM		A3E			Radio Hargaysa daily
USKA	7121.0 VFO LSB	2214	10	10			OFDM30 BPSK	60	~2k4	Burst system; spacing 75Hz preamble 4x PSK4 60Bd, spacing 600Hz; Pilotone at 450Hz
USKA	7124.8	2307	30	10			PSK-8		~2k4	strong fading, maybe Stanag 4285
USKA	7137.9	1151	30	10			A1A			Dots, splattering ~2.k4 kHz
USKA	7138.0	1151	30	10			F1B	75	200	jammed by "dotter"
USKA	7152.0	2025	13	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7158.0	2141	18	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7176.0	2039	03	10			F1B	75	250	
USKA	7176.0	0901	14	10			J7D			CIS12 system, idling
USKA	7177.0	1554	20	10			J7D			CIS12 system, idling
USKA	7179.0	1418	08	10			J7D	12x120	2k7	PSK-4: CIS12 – AT3104D
USKA	7186.0	1406	08	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often with carrier
USKA	7194.0	2224	21	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7197.0	2033	03	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7199.0	2221	21	10			J7D			CIS12 system, idling
USKA	10142.0	1559	18	10			FMCW	43.5 sps	~60k	OTHR
USKA	14000.0	0811	15	10			N0N			long lasting carrier
USKA	14005.0	1003	22	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14008.0	1033	22	10			F1B	50	500	long intervals often
USKA	14192.0	1010	02	10			F1B	50	200	CIS 50-50 daily
USKA	14192.0	1010	02	10			F1B	50	500	
USKA	14204.5	0758	30	10			F1B	75	250	slightly drifting
USKA	14207.0	1548	15	10			FMCW	50 sps	~12k	OTHR, interfering ~30k
USKA	14208.0	0801	15	10			FMCW	50 sps	~12k	OTHR, interfering ~25k
USKA	14215.0	0712	20	10			FMCW	50 sps	~12k	OTHR, interfering ~30k
USKA	14240.0	0831	30	10			F1B	75	250	
USKA	14270.0	1211	05	10			FMCW	50 sps	~12k	OTHR, interfering ~30k
USKA	14275.0	0833	30	10			F1B	75	250	
USKA	14282.0	0836	30	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14295.1	1505	08	10	TJK		A3E			BC: 3 <sup>rd</sup> of Radio Tajik at 4765 kHz
USKA	14340.0	1740	06	10			FMCW	50 sps	~12k	OTHR, interfering ~30k

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14344.65	1501	08	10			PSK-8	2400	2k4	MIL 188-110A variant daily burst system, short intro ton 0.3s Frame format 600 bps/short
USKA	14347.0	1649	05	10			FMCW	50 sps	~12k	OTHR, interfering ~30k
USKA	18107.0	1006	02	10		RDL	F1A		200	letters and figures in groupes of 5
USKA	18107.0	1008	02	10			F1B	36	200	CIS36-50 almost daily
USKA	18107.0	1003	02	10			F1B	50	200	CIS36-50 almost daily
USKA	18130.0	0758	14	10			F1B	100	1000	Harmonic of 9065 often
USKA	21001.5	1015	02	10			F1B	100	150	Vocoder Yakhta almost daily
USKA	21060.0	0841	27	10			FMCW	10 sps	160k	OTHR (various other frequencies)
USKA	21145.0	1011	09	10		IR4	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1016	09	10		C4	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1224	09	10		S5	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1337	09	10		CD	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1410	09	10		GS4	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1611	09	10		C3	MFSK8	125	1750	MIL 188-141A often
USKA	21170.0	1431	29	10			FMCW	50 sps	20k	OTHR
USKA	21290.0	0856	11	10			FMCW	50 sps	20k	OTHR
USKA	21375.0	1121	10	10			OFDM-97 PSK2	22.2x	2k5	spacing 25.66Hz; Pilottone at 3k3
USKA	21398.0	1002	15	10			FMCW	10 sps	160k	OTHR, occupying 160kHz!!
USKA	21438.0	1432	11	10		RCV	A1A			letters and figures daily
USKA	22450.0	0953	16	10			FMCW	50 sps	20k	OTHR, interfering ~ 30k
USKA	28000.0	0754	28	10				307 sps 870 sps	app 50k	OTHR, Burst system; often sometimes interfering > 100k
USKA	28591.0	0831	15	10			FMCW	50 sps	20k	OTHR
USKA	28600.0	1018 0829	02 23	10				307 sps 870 sps	app 50k	OTHR, Burst system; often somtimes interfering > 100k
USKA	28849.0	0901	30	10				307 sps 870 sps	app 50k	OTHR, Burst system; interfering 80k
USKA	29230.0	1213	29	10			FMCW	50 sps	20k	OTHR, interfering ~ 30k
USKA	29490.0	1104	15	10			FMCW	50 sps	20k	OTHR, interfering ~ 30k
USKA	29550.0	1314	29	10			FMCW	50 sps	20k	OTHR, interfering ~ 30k
USKA	29600.0	1040	16	10			FMCW	50 sps	20k	OTHR, interfering ~ 40k
USKA	29645.0	1436	29	10			FMCW	50 sps	20k	OTHR, interfering ~ 30k
USKA	29710.0	0933	16	10			FMCW	25 sps	20k	OTHR, interfering ~ 30k

### Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3552,0	19.49	5	10		UiPTR	F1B			Revs/Ptr
VERON	3608,0	19.50	5	10		UiPTR	F1B			Revs/Ptr
VERON	7000,0	06.13	15	10	Italy	UiILL	J3e-U			Italian, male voices
VERON	7030,00	04.54	20	10	?	?	F1B		250	fast revs
VERON	7032,0	18.38	7	10	RUS	UiMUX	PSK2			12 MPSK AT3004D
VERON	7038,5	17.46	4	10		UiCar				Continuous wobbling carrier; s5+10
VERON	7038,7	19.40	5	10	UKR	D	A1A			D-beacon
VERON	7038,7	17.13	4	10	RUS	D	A1A			Beacon Sevastopol
VERON	7038,9	19.48	5	10	RUS	S	A1A			S-beacon
VERON	7039,0	19.42	5	10	RUS	C	A1A			C-beacon
VERON	7039,2	15.42	27	10	RUS	F	A1A			F-breacon
VERON	7054,0	19.56	26	10						Frequency hopper
VERON	7080,0	19.53	5	10		UiPTR	F1B			Ptr
VERON	7080,0	18.37	26	10	RUS	UiPtr	F1B		200	
VERON	7117,0	18.49	7	10	RUS	UiMUX	PSK2			12 MPSK AT3004D
VERON	7117,0	21.19	25	10	RUS	REA4	F1B		1k	Idling; bad modulation
VERON	7160,0	07.20	8	10	RUS	RMW32	A1A			RMW32 05 32 8 1100 BT 999 BT (5F)
VERON	7160,0	07.21	8	10	RUS	RMW32	A1A			RPT AL ZLN AR
VERON	7160,0	07.29	8	10	RUS	RABZ	A1A			RABZ SK RABZ SK
VERON	7171,0	14.40	23	10	RUS	1QRF	F1A	67	1000	XXX 1QRF 29239 LE CHUKONEC 9732
VERON	7171,0	14.42	23	10	RUS	REA4	F1B	100	1000	revs

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7196,0	14.46	23	10	?	MDVB	A1A			XXX MDVB 61179 OBVIMOOONJ 6809 4402
VERON	7196,0	15.00	23	10	?	MDVB	A1A			XXX MDVB 48711 OERPALXQIK
VERON	7196,0	15.00	23	10	?	MDVB	A1A			2257 2082 K
VERON	10121,0	12.00	21	10		UiPTR	F1B			Ptr
VERON	10139,0	13.46	24	10						Frequency hopper
VERON	14008,0	10.10	5	10	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14014,0	07.15	4	10	?	DV6Y	A1A			EJKP DE DV6Y ZRA ZAB ZRI QYT6 K
VERON	14014,0	06.16	6	10	?	YXTX	A1A			EJKP DE YXTX: proc
VERON	14014,0	07.05	20	10	RUS	2NCH	A1A			2NCH 932 21 20 1102 932 BT 777 BT
VERON	14014,0	07.05	20	10	RUS	2NCH	A1A			(5BL) 648 RPT AL K
VERON	14014,0	07.12	20	10	RUS	2NCH	A1A			LRDV DE 2NCH ZVC ZXN ZXQ ZVC ZVX
VERON	14014,0	07.12	20	10	RUS	2NCH	A1A			ZFN QYT6 K
VERON	14014,0	07.01	25	10	?	LGN9	A1A			AG1S DE LGN9 QTC 380 18 25 1046 380
VERON	14014,0	07.01	25	10	?	LGN9	A1A			BT 282 BT (5BL)
VERON	14180,0	09.17	6	10		UiPtr	F1B		200	at 13.04 utc still on the air
VERON	14180,0	19.55	5	10	CIS	UiPTR	F1B			Carrier/Revs/Ptr (also at: 23/10)
VERON	14180,0	10.17	7	10	RUS	RDL	F1A			RDL 03012 83104 k
VERON	14180,0	10.19	7	10	RUS	RDL	F1A			RDL 15218 23243 k
VERON	14180,0	09.52	5	10	RUS	UiPtr	F1B		200	
VERON	14192,0	10.00	26	10	RUS	UiPtr	F1B		200	Ptr
VERON	14192,0	vt	vd	10	RUS	UiPtr	F1B		200	Mostly idling
VERON	14208,0	17.51	4	10		UiRadar	FMCW		30k	OTHR; 50sps
VERON	14208,0	09.46	5	10		UiRadar	FMCW		16k	OTHR; 50sps
VERON	14210,0	11.40	5	10	RUS	OTHR	FMCW			radar, nr Moscow
VERON	14245,0	14.43	31	10						Frequency hopper
VERON	14270,0	12.30	5	10	RUS	OTHR	FMCW			radar
VERON	14317,0	14.53	4	10		UiRadar	FMCW		20k	OTHR; 50sps
VERON	14335,0	12.46	27	10		UiPTR	F1B			Ptr
VERON	14343,0	10.42	8	10	RUS	UiMUX	PSK2			12 MPSK AT3004D
VERON	18107,0	11.30	3	10	CIS	UiCW	F1A			XXX (followed by: F1B Revs/Ptr)
VERON	21001,5	14.48	10	10	RUS	UiPtr	F1B		150	Yaktha
VERON	21016,0	16.12	9	10		OTHR	FMCW			QRM on DX pile up 4W/G3ZEM
VERON	21187,0	09.38	5	10						Frequency hopper
VERON	21222,0	13.31	24	10		UiRadar	FMCW			CODAR; 10sps
VERON	21438,0	07.30	16	10	RUS	RCV	A1A			RBE86 DE RCV QTC 663 40 16 0923 BT
VERON	21438,0	07.30	16	10	RUS	RCV	A1A			663 BT NAWAREA 038 (etc)
VERON	21438,0	15.10	23	10	RUS	RCV	A1A			RKZ DE RCV QTC 523 22 23 17 523 BT
VERON	21438,0	15.10	23	10	RUS	RCV	A1A			(5BL) (rpt 15.12z)
VERON	21438,0	15.24	23	10	RUS	RJV	A1A			XXX RJV 27557 OTPASUK 6433 6209 (ETC)
VERON	28005,0	07.00	29	10	IRN	FMCW				sweep 310&870 Hz
VERON	28010,0	09.22	24	10	Iran	OTHR				sweeps (between 28000- 28025 KHz)
VERON	28010,0	09.25	28	10	IRN	OTHR				sweeps
VERON	28010,0	09.57	25	10	IRN	UiRadar	FMCW		120k	OTHR; 307 & 870 sps
VERON	28025,0	09.11	25	10	IRN	OTHR				sweeps (between 28000- 28025 KHz)
VERON	28025,0	07.03	29	10		EH	F1A			beacon fishery
VERON	28050,0	16.47	30	10	HOL	PE1PMD/ b	A1A			beacon loc. Jo21pq,
VERON	28065,0	13.12	24	10	RUS		F3E			Taxi radiotraffic
VERON	28065,0	09.58	25	10	RUS		F3E			Taxi radiotraffic
VERON	28135,0	09.02	28	10	RUS	Taxi	F3E			taxi tfc yl

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	28155,0	09.34	30	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28155,0	13.15	24	10	RUS		F3E			Taxi radiotraffic
VERON	28160,0	10.46	30	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28165,0	10.45	30	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28180,0	09.23	24	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28185,0	09.34	30	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28185,0	13.16	24	10	RUS		F3E			Taxi radiotraffic
VERON	28195,0	10.45	30	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28225,0	09.30	7	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28245,0	10.47	30	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28250,0	14.12	30	10		UiRadar	FMCW		25k	OTHR; 50sps
VERON	28255,0	09.56	7	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28275,0	10.12	10	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28275,0	14.28	31	10	RUS		F3E			Taxi radiotraffic
VERON	28280,0	09.25	24	10	RUS	Taxi	F3E			taxi tfc yl
VERON	28303,0	10.00	25	10						Frequency hopper
VERON	28420,0	14.15	30	10						Frequency hopper
VERON	28486,0	10.36	4	10						Frequency hopper
VERON	28580,0	09.45	26	10	IRN	OTHR				sweeps 310&870 Hz
VERON	28815,0	09.31	7	10	RUS	Taxi	F3E			taxi tfc yl
VERON	29015,0	09.25	24	10	RUS	Taxi	F3E			taxi tfc yl
VERON	29630,0	09.21	25	10		OTHR	FMCW			radar

# The monitoring team of IARU Region 1

credits:

**Wavecom Elektronik – Buelach – Switzerland**

**Many thanks for your interest!**

**compiled and published by DK2OM**

**November 2014**