



# Monitoring System

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The monthly newsletter for Region 1

## July 2013

### The 26 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: E15DD - Steve ++ KARS: 9K2RR – Faisal ++  
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++  
++ OEVS: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++  
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4VJ - Johny  
++ URE: EA5DY - Salvador ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++  
++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++  
++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++  
++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1  
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ - Petrica

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

## Part 1: News and Infos

### 1. Radio Hargaysa on 7120 kHz – action by DL4KE

DL4KE – Juergen tried to help us, read the answer:

*Jurgen*

*Thanks for alerting us on the frequency issue*

*I have contacted relevant ministry of information officials (BCC) who have promised to see into the anomaly if any and get back to you. Once again thanks alot and would appreciate future updates. Kindly contact Mr Mohamed Osman Mire 'Sayid' who is a director at the ministry [sayidmire@gmail.com](mailto:sayidmire@gmail.com) --- Regards Yusuf Mohamed Hasan Main Editor Somaliland Sun*

### 2. The BC situation on 7 MHz

7110 – Radio Myanmar - 7120 Radio Hargaysa – 7195 Radio Uganda –  
7200 SOH and Radio China daily from 2200 – 2300 UTC ( **source: DJ9KR**)

### 3. 5Z4NU – Ted reports about his action concerning 7195 kHz:

*From: **Henry Mugabi** [mailto:hmugabi@ucc.co.ug]*

*Sent: 20 July 2013 19:05*

*To: **E.H.M.Alleyne***

*Subject: Re: Uganda Radio illegally on 7198 kHz*

*Dear Sir,*

*We received this complaint earlier and engaged the broadcaster to suspend their operations on the mentioned channel. We are going to further confirm if the directive was effected and if not ensure their compliance.*

*Rgds Henry*

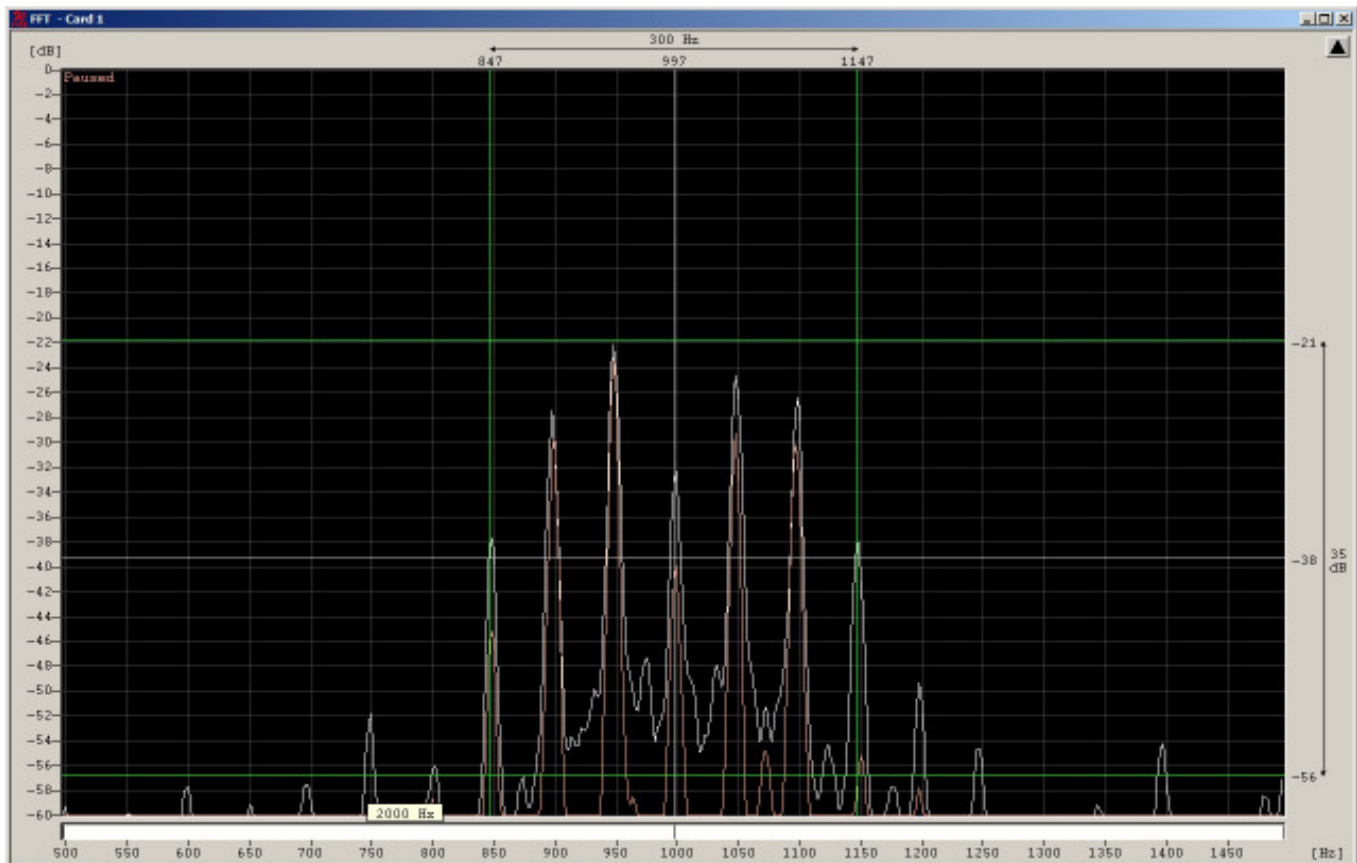
### 4. 7000 kHz USB – French fishery meeting point

HB9CET and DK2OM observed French fishery on 7000 kHz daily, various times. The ship engine was audible in the background. They abused our band like telephone. My DX-Cluster entries were not observed.

### 5. 7000 kHz – mysterious carrier system

We observed a long lasting carrier system on 7000.0 kHz +/- coming from Israel, purpose unknown.

Screenshot: DK2OM with W-Code, July 17<sup>th</sup> at 1830 utc. The system was active several days.



### 6. Ukraine military on 21 MHz – QSY from 21060 to 21068 kHz

Ukraine military was transmitting daily on 21060 kHz. After a complaint by the German PTT BNetzA they moved up to 21068 kHz for digital traffic daily at 0700 – 0800 utc. Details: 12 x 120 Bd, BPSK, system AT3004D, perhaps UN-mission traffic. Location: Odessa, Ukraine. The German PTT was informed again.

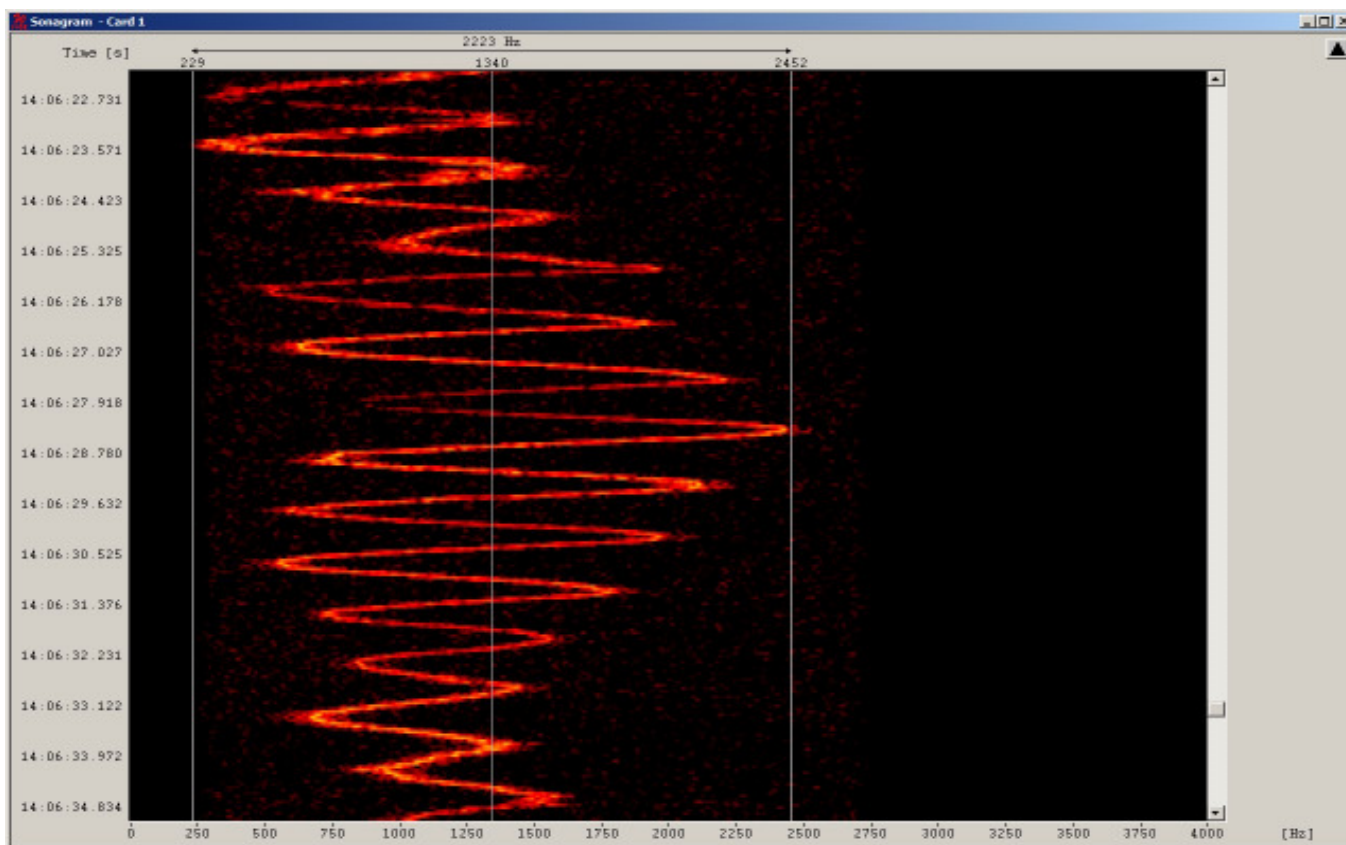
### 7. Mysterious oscillation on 28002 kHz

Mysteriuos and unstable oscillation found by DK2OM on 28002 kHz on July 16<sup>th</sup> at 1400 utc.

Location: Caribbean area. Purpose still unknown. Many thanks for your efforts to give me some help or ideas.

Sonagram: DK2OM with W-Code – mode: USB

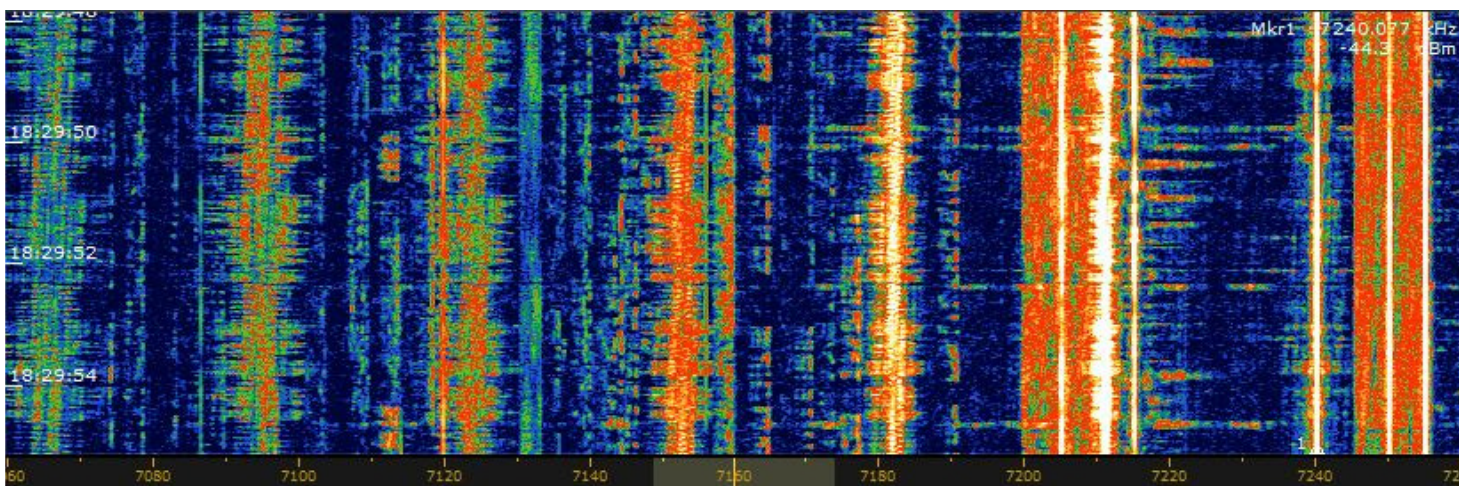
soundfile: <http://www.iarums-r1.org/iarums/sound/28002-oscil.wav>



### 8. 7000 – 7200 kHz - spurious emissions from Radio Tehran on 7240 kHz

HB9CET and DK2OM found strong spurious emissions caused by Radio Tehran on 7240 kHz for several days at 1800 – 1900 utc. After few days the old Telefunken transmitter was repaired by the Iranian engineers.

Screenshot: DK2OM with Perseus - spurious emissions on July 7<sup>th</sup> at 1830 utc – observe the markers below!



7060

7200

7240

### 9. Update: Radar Systems on Shortwave – Version August 2013:

<http://www.iarums-r1.org/iarums/radar-2013.pdf>

### 10. 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>

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 JULY 2013

Radio Uganda continued unabated in spite of complaints during daylight hours only and appears not to be heard overseas. Radio Hargeisha on 7120 kHz continued as before with a very strong signal.

E.H.M. Alleyne, 5Z4NU

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#### ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7120.0	vt	dly	7	Rep.of Somaliland	Hargeisha	A3E	Daily broadcasts.
ARSK	7195.0	0650 to mid-afternoon	dly	7	UGA	Uganda Radio	A3E	B'cast in KiSwahili, Koran recitations, music, Luganda & English, to about 1200Z or later.

#### DARC 1 – Germany – DG0JBJ (Mario)

DG0JBJ (Mario) observed 10 OTH radars on 20 m, 23 OTH radars on 15 m and 3 OTH radars on 10 m (not included the few jumping Iran OTH radar emissions) in June 2013.

#### DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

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

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

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	2022	09	07	POL		USB LSB			Polish "PIP" – 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 - Polish Baltic coast - POL Navy – legal operation (ITU footnote) – daily, all day
DK2OM	1881,4	vt	dly	07	F		QPSK	100	100	BC-PSK – radio navigation - Nantes
DK2OM	1896,5	2005	13	07	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy - daily
DK2OM	3500,0	0605	25	07	E		USB			Spanish fishery – also: 28.07.2013 at 2155 utc
DK2OM	3500,0	1730	31	07	HOL		USB			Dutch fishery
DK2OM	3503,5	vt	dly	07	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" "XJR" – British MIL Tascomm – vt, daily - legal!
DK2OM	3504,0	2135	24	07	BLR		F1B	40.5	220	system Frost1
DK2OM	3507,9	2139	19	07	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3510,0	1919	14	07	E		USB			Spanish fishery
DK2OM	3511,5	2002	11	07	UKR		PSK2	120	2600	AT3004D – west of Kiev
DK2OM	3513,1	2119	12	07	?		USB			pirates – unid language

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3515,0	2145	17	07	F		USB			French fishery
DK2OM	3520,0	2039	05	07	F		USB			French fishery
DK2OM	3527,0	2045	10	07	RUS		F1B	40.5	250	system Frost1 – Severomorsk daily
DK2OM	3530,0	2015	24	07	RUS		FMCW		35k	<b>OTHR – 43.5 sps – 3530 – 3565 kHz - Makhachkala – Caspian Sea</b>
DK2OM	3531,0	2044	02	07	RUS	REA4	N0N			carrier with spurious emissions, RUS airforce Moscow, ident: 2040 utc – daily, all day
DK2OM	3535,0	2029	07	07			USB			Scandinavians
DK2OM	3536,0	2006	08	07	RUS		F1B	40.5	200	system Frost 1 - Novgorod
DK2OM	3550,0	0530	17	07	F		A3E			French amateurs not respecting the bandplans - daily
DK2OM	3550,0	vt	vd	07	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3553,8	ady	dly	07	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3582,0	2017	05	07	RUS		PSK2	120	2600	AT3004D – St. Peterburg
DK2OM	3585,0	2000	dly	07	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily legal!
DK2OM	3585,0	1935	28	07	RUS		FMCW		60k	<b>OTHR – 43.5 sps – 3585 – 3645 kHz – Makhachkala – Caspian Sea – also: 29.07.2013 at 1820 utc</b>
DK2OM	3587,0	vt	vd	07	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3595,0	vt	dly	07	D		FSK8	125	1750	ALE – German customs
DK2OM	3597,0	vt	dly	07	D		PSK8	2400	2400	Link11 SLEW
DK2OM	3608,0	2000	14	07	RUS		F1B	50	200	Kaliningrad
DK2OM	3617,0	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	07	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3720,0	1854	02	07	RUS		FMCW		55k	<b>OTHR – 87 sps – 3720 – 3775 kHz – Makhachkala – Caspian Sea</b>
DK2OM	3720,0	2014	03	07	RUS		FMCW		50k	<b>OTHR – 87 sps – 3720 – 3770 kHz – Makhachkala – Caspian Sea</b>
DK2OM	3744,5	2000	02	07	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – short introtone at 3744 kHz
DK2OM	3751,0	2019	05	07	RUS		PSK2	120	2600	AT3004D
DK2OM	3756,0	ady	dly	07	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3761,5	vt	vd	07	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3774,0	2122	02	07	E	names	USB			<b>Spanish fishery sometimes with vocoder CRY2001 – various days and times, engine noise</b>
DK2OM	3782,0	ady	dly	07	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon – disturbed by Russian OTH radar
DK2OM	3791,0	vt	vd	07	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	6999,0	0720	27	07			USB			Scandinavian pirates, splattering up
DK2OM	7000,0	1900	15	07	F		USB			<b>French fishery – using 7000 USB like telephone, disturbing the QRSS stations around 7000.8 kHz - daily – various times – ship engine audible</b>
DK2OM	7000,0	0716	05	07	RUS		A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7000,0	1820	06	07	IRN	IRIB	A3E			<b>spurious from IRIB Kamalabad – Iran - on 7240 kHz in 20 kHz increments between 6840 and 7240 kHz and also above 7240 kHz until</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										<b>7600 kHz</b>
DK2OM	7000,0	1940	06	07			USB			male persons in Arabic voice
DK2OM	7000,0	2000	10	07	ISR		N0N			carrier with spurious in 50 Hz increments - daily
DK2OM	7000,0	1736	11	07	CHN		FMCW		35k	Chinese OTHR – 32 sps – splattering up 7035 kHz
DK2OM	7008,0	1940	18	07	RUS		PSK2	120	2600	AT3004D – submode idle – east of Moscow
DK2OM	7010,0	1355	26	07	FEa		USB LSB			Far East pirate nets, audible via Tokyo
DK2OM	7020,0	0721	12	07			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7020,0	1528	27	07	INS		USB LSB			Indonesian pirates
DK2OM	7029,0	1900	10	07	IRN		A3E		9k	<b>spurious from IRIB Kamalabad – Iran - on 7240 kHz – also on 7134 kHz – distorted and partial FM/AM</b>
DK2OM	7032,0	1955	22	07	RUS		PSK2A	120	2600	AT3004D – Smolensk - daily
DK2OM	7038,7	2000	03	07	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	2000	03	07	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP” - defective on July 5 <sup>th</sup>
DK2OM	7038,9	---	---	07	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	---	---	07	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	07	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	ady	dly	07	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	ady	dly	07	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	ady	dly	07	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	07	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	07	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	07	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7043,0	1416	25	07	RUS		PSK2	120	2600	AT3004D – modem idle - Kaliningrad
DK2OM	7049,5	vt	dly	07	HRV	9A0ALE	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7052,0	1822	30	07	RUS		F1B	75	250	Novosibirsk
DK2OM	7054,0	---	---	07	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – <b>not active</b>
DK2OM	7055,5	vt	dly	07	TUR		FSK8	125	1750	ALE, “111” - border Turkey – Armenia
DK2OM	7070,0	vt	vd	07	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204”
DK2OM	7077,6	0716	05	07	RUS		A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7078,0	0620	18	07	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7099,5	vt	vd	07	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – just for info!
DK2OM	7102,0	vt	vd	07	HRV SUI	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “HB9MHB” “9A0ZG” – just for info!
DK2OM	7105,0	2230	31	07	CHN		A3E			Chinese multitone
DK2OM	7110,0	vt	dly	07	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7120,0	17400	28	07	SOM		A3E		9k	<b>Radio Hargaysa Somalia, daily</b>
DK2OM	7123,0	0920	08	07	RUS		F1B	75	200	Russian ship – west of Bornholm, Baltic Sea
DK2OM	7132,0	1712	05	07	RUS		PSK2A	120	2600	AT3004D – Voronezh – daily
DK2OM	7133,0	0818	04	07	RUS		PSK2	120	2600	AT300D – submode idle - Kaliningrad

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7158,5	1719	05	07	UKR		PSK2A	120	2600	AT3004D – RUS Navy Sevastopol
DK2OM	7164,0	1824	30	07	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7166,0	1653	17	07	F		A1A			encrypted msgs – 5 letter / figure groups – area of Paris
DK2OM	7178,0	1542	21	07	RUS		PSK2A	120	2600	AT3004D – Severomorsk – also: 30.07.2013 at 1826 utc
DK2OM	7185,5	vt	dly	07	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7197,0	1920	04	07	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM
DK2OM	7197,0	1830	16	07	RUS		PSK2	62	2800	7197 – 7199.8 kHz - broadband PSK signal from Radio Rossii on 7215 kHz – also: 7230 kHz - daily
DK2OM	7198,0	1733	08	07	RUS		PSK2	120	2600	AT3004D – submode idle - Smolensk
DK2OM	7200,0	2200	27	07	CHN TWN		A3E			2 BCs in Chinese language found by DJ9KR, confirmed by DK2OM via remote Japan
DK2OM	10100,8	ady	dly	07	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10108,0	1728	05	07	RUS		F1B	50	200	Moscow
DK2OM	10112,0	ady	dly	07	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – NE of Izmir
DK2OM	10113,0	vt	dly	07	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0626	11	07	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10120,0	1939	15	07	RUS		PSK2A	120	2600	AT3004D – Samara
DK2OM	10126,0	0855	27	07			PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	10130,0	vt	dly	07			FSK8	125	1750	Thales 3000
DK2OM	10136,0	1920	13	07	RUS		F1B	50	200	Far East Russia – also: 24.07.2013 at 1740 utc
DK2OM	10145,0	1430	12	07	RUS		PSK2	120	2600	AT3004D – south of Omsk
DK2OM	10145,5	1543	29	07	HRV S / D	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” - just for info
DK2OM	14000,0	1932	23	07	FEa		USB			Far East pirates – Indonesia ? - daily
DK2OM	14000,0	2000	06	07	B		USB			Brazilian pirates – also: 07.07.2013 at 1900 utc
DK2OM	14000,0	0824	30	07						frequency hopper
DK2OM	14001,0	vt	dly	07	CHN		FSK8	125	1750	ALE, “397”
DK2OM	14002,2	1908	21	07	CLN		USB LSB			pirates from Sri Lanka – also: 24.07.2013 at 1940 utc in LSB – and 26.07.2013 at 1320 utc
DK2OM	14008,0	1430	09	07	RUS		F1B	50	250	Moscow – also: 18.07.2013 at 0846 utc
DK2OM	14026,0	0623	10	07	RUS		PSK2A	120	2600	AT3004D – Moscow – traffic and submode idle – various days
DK2OM	14060,0	vt	vd	07	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14108,0	1102	07	07	RUS		A1A			“KB3F” - Moscow
DK2OM	14109,0	vt	vd	07	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14110,0	0858	05	07	RUS		F1B	75	250	west of Moscow
DK2OM	14118,0	1503	06	07	RUS		PSK4B	120	2600	AT3104D – traffic and modem idle - Moscow
DK2OM	14118,0	0909	12	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	0647	07	07	RUS		F1B	50	200	RUS Navy Kaliningrad – often daily
DK2OM	14192,0	1459	01	07	RUS		F1B	125	200	RUS Navy Kaliningrad
DK2OM	14205,0	vt	dly	07		no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14221,0	1920	07	07	RUS		F1B	50	200	Mitchurinsk – also: 08.06.2013 at 2000 utc
DK2OM	14221,0	1900	dly	07	KGZ		F1B	50	200	Bishkek
DK2OM	14242,0	0620	13	07	RUS		PSK2A	120	2600	AT3004D - Omsk

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14260,0	vt	dly	07	SRB		FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14265,0	vt	vd	07	TUR		FSK8	125	1750	ALE, "526"
DK2OM	14280,0	Wedne sday	vd	07	UKR		A3E			Ukraine secret service SZRU – female voice spelling encrypted msg
DK2OM	14292,0	1712	31	07	RUS		F1B	75	500	Shelkovo, east Moscow
DK2OM	14295,0	vt	dly	07	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,1	ady	dly	07	TJK		A3E			3 <sup>rd</sup> from Radio Tajik on 4765 kHz
DK2OM	14301,8	1409	11	07	RUS		OFDM	22.2	2870	OFDM 112 - Moscow
DK2OM	14317,0	vt	vd	07	UKR	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14344,7	1823	31	07	CHN		PSK8	2400	2400	MIL-188-110A variant – daily, 600 bps short – 14344.650 kHz
DK2OM	14346,0	vt	dly	07	HRV RUS D		FSK8	125	1750	ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily
DK2OM	14346,0	1500	01	07	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18080,0	1028	07	07	CYP		FMCW			OTH radar Cyprus
DK2OM	18100,0	0828	04	07	CYP		FMCW		20k	OTH radar Cyprus
DK2OM	18100,0	1854	27	07	F		USB			pirates in French voice
DK2OM	18107,0	vt	vd	07	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18140,0	vt	dly	07	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	21000,0	2015	04	07	B		USB			Brazilian pirates (fishery ?) – Rio de Janeiro with North Brazil – also: 07.07.2013 at 1007 utc
DK2OM	21000,0	0703	17	07	CIS?		USB			short message in male Russian voice – only figures
DK2OM	21000,0	0840	26	07	CLN		USB			Sinhala fishery – also: 27.07.2013 at 1900 utc
DK2OM	21000,0	1256	28	07	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21002,1	1907	27	07	SDN		F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21003,0	2033	04	07						frequency hopper
DK2OM	21010,0	1740	26	07	CHN		USB			South China – MIL?
DK2OM	21010,0	1540	28	07	TUR		FMCW		20k	OTH Radar – 50 sps
DK2OM	21066,0	0827	21	07			USB			unid pirates Far East
DK2OM	21068,0	0728	21	07	UKR		PSK2A	120	2600	AT3004D – UKR MIL Odessa – daily 0700 – 0800 utc
DK2OM	21096,0	vt	dly	07	INS	YD00XH	FSK8	125	1750	ALE, "YD00XH3" – daily, various times - just for info!
DK2OM	21110,0	0631	13	07	TUR		FMCW		40k	OTHR – 12.5 sps – 21090 – 21130 kHz – NW-Turkey
DK2OM	21145,0	vt	dly	07	MRC		FSK8	125	1750	ALE, "B301", "C3", "IR4" "T4" "E4" "A2" "CD" "K3" – various times, daily
DK2OM	21216,4	1013	10	07			F1B	600	600	DPRK-FSK 600 – 21216.450 kHz – North Korean emba
DK2OM	21227,0	1024	04	07	AUS		FMCW		10k	OTH radar JORN - 34.5 and 29.4 sps – 2 sec bursts
DK2OM	21230,0	0831	04	07	AUS		FMCW		20k	OTH Radar JORN bursts
DK2OM	21288,0	1040	10	07	AUS		FMCW		10k	OTH radar JORN - 50 sps – 1.3 sec bursts
DK2OM	21293,0	0955	04	07	AUS		FMCW		10k	OTH radar JORN - 34.5 and 29.4 sps – 2 sec bursts
DK2OM	21304,0	1025	04	07	AUS		FMCW		10k	OTH radar JORN - 34.5 and 29.4 sps – 2 sec bursts
DK2OM	21438,0	vt	dly	07	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	07	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	07	FIN		A3E			time signal Helsinki – just for



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	dly	07	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	07	CIS		F3E			28000 – 29700 numerous CIS taxi nets
DK2OM	28000,0	vt	dly	07	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps – jumping between 28000 and 29700 kHz daily
DK2OM	28000,0	1100	09	07			USB			unid male persons – 100 deg. from DL
DK2OM	28000,0	1818	30	07	B		USB			Brazilian pirates
DK2OM	28005,0	0818	02	07	E		A3E			Spanish CBers – also: 11.07.2013 at 0734 utc and daily
DK2OM	28005,0	ady	dly	07	RUS		F3E			taxi net St. Peterburg
DK2OM	28008,0	1416	16	07						frequency hopper
DK2OM	28015,0	1843	09	07	B		A3E			Brazilian CBers
DK2OM	28035,0	1723	08	07	B		A3E			Brazilian CBers
DK2OM	28035,0	vt	dly	07	RUS		F3E			taxi - area of Moscow – male and female – daily, all day
DK2OM	28040,1	vt	ady	07	POR		F1B	51	320	F1B bursts – west of Lisbon, daily, all day
DK2OM	28045,0	1844	09	07	B		A3E			Brazilian CBers
DK2OM	28055,0	1842	09	07	B		A3E			Brazilian CBers
DK2OM	28055,0	1052	11	07	E		A3E			Spanish CBers – also: 23.07.13 at 0922 utc
DK2OM	28062,0	0914	11	07						frequency hopper
DK2OM	28065,0	1923	17	07	B		A3E			Brazilian CBers
DK2OM	28075,0	1937	18	07	F		A3E			French CBers, children
DK2OM	28085,0	1924	17	07	B		A3E			Brazilian CBers
DK2OM	28085,0	1501	07	07	F		USB			French CBers
DK2OM	28095,0	1545	09	07	B		A3E			Brazilian CBers
DK2OM	28100,2	0916	11	07	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon
DK2OM	28105,0	1844	09	07	B		A3E			Brazilian CBers
DK2OM	28115,0	1845	09	07	B		A3E			Brazilian CBers
DK2OM	28125,0	1930	17	07	B		A3E			Brazilian CBers
DK2OM	28135,0	1106	12	07	RUS		F3E			taxi – Caucasus, daily
DK2OM	28145,0	vt	dly	07	RUS		F3E			taxi - Caucasus
DK2OM	28145,0	0948	08	07	E		A3E			Spanish CBers – also: 09.07.2013 at 0818 utc – daily, every morning
DK2OM	28145,0	1929	17	07	B		A3E			Brazilian CBers
DK2OM	28146,0	1419	08	07	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28150,0	1900	18	07	F		F3E			French CBers
DK2OM	28165,0	1922	17	07	B		A3E			Brazilian CBers
DK2OM	28175,0	1845	09	07	B		A3E			Brazilian CBers
DK2OM	28185,0	1921	17	07	B		A3E			Brazilian CBers
DK2OM	28185,6	1900	dly	07	SAm		F1B	302.0	202	data bursts – South America – daily, all day
DK2OM	28195,0	1847	09	07	B		A3E			Brazilian CBers
DK2OM	28200,0	vt	dly	07	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28205,0	1848	09	07	B		A3E			Brazilian CBers
DK2OM	28205,0	0628	17	07	E		A3E			Spanish CBers
DK2OM	28205,0	0827	30	07	F		F3E			French CBers
DK2OM	28210,0	vt	dly	07	UKR		F3E			taxi - Dnepropetrovsk
DK2OM	28215,0	1845	09	07	B		A3E			Brazilian CBers
DK2OM	28225,0	1848	09	07	B		A3E			Brazilian CBers
DK2OM	28235,0	1839	09	07	B		A3E			Brazilian CBers
DK2OM	28245,0	1840	09	07	B		A3E			Brazilian CBers
DK2OM	28250,2	1453	28	07	GAB		A3E		1800	carrier and dots in USB and LSB, bursts every 60 sec – 28250.224 kHz carrier – Gabon – daily and all day
DK2OM	28255,0	vt	dly	07	KAZ		F3E			taxi – Almaty
DK2OM	28255,0	1840	09	07	B		A3E			Brazilian CBers

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28265,0	1926	17	07	B		A3E			Brazilian CBers
DK2OM	28275,0	vt	dly	07	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28275,0	1927	17	07	B		A3E			Brazilian CBers
DK2OM	28285,0	vt	dly	07	RUS		F3E			taxi – Rostov na Donu
DK2OM	28285,0	1927	17	07	B		A3E			Brazilian CBers
DK2OM	28285,0	1049	11	07	E		A3E			Spanish CBers
DK2OM	28305,0	vt	dly	07	RUS		F3E			taxi - Krasnodar
DK2OM	28305,0	1548	09	07	B		A3E			Brazilian CBers
DK2OM	28346,3	0750	11	07	GAB		A3E		1600	carrier and dots in USB and LSB, bursts every 60 sec – 28346.25 kHz carrier – <b>Gabon</b> – daily and all day
DK2OM	28365,0	vt	dly	07	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28390,0	vt	dly	07	RUS		F3E			taxi - Vladikavkaz
DK2OM	28695,0	vt	dly	07	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28825,0	vt	dly	07	UKR		F3E			taxi - Odessa
DK2OM	28895,0	vt	dly	07	RUS		F3E			taxi - Stavropol
DK2OM	28945,0	vt	dly	07	UKR		F3E			taxi - Donetsk
DK2OM	29055,0	vt	dly	07	RUS		F3E			taxi Stavropol
DK2OM	29250,0	1933	07	07	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.907 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	---	--	07	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29387,5	---	--	07	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	---	--	07	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.963 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	1410	07	07	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	1934	07	07	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29555,0	vt	dly	07	RUS		F3E			taxi - area of Moscow - daily
DK2OM	29575,0	vt	dly	07	RUS		F3E			taxi - area of Moscow – male and female – very active - daily, all day
DK2OM	29684,8	0900	07	07	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29699,8	0900	07	07	I		serial			serial modem, Italian MIL Brescia – Sporadic E!

### IRTS – Ireland – EI5DD (Steve)

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3510,3	1744	16	7			NON			
MRASZ	7000,0	2050	10	7			A3E			Ui language
MRASZ	7000,1	1747	30	7			???			as a line hum; also on day 31
MRASZ	7008,0	1642	9	7			F1B		250	
MRASZ	7008,0	1831	18	7			BPSK			AT3004D
MRASZ	7016,0	1758	16	7			F1B		250	
MRASZ	7016,0	1816	18	7			F1B		250	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7027,6	1758	18	7			A1A			"V V V" slow; also on day 21, 31
MRASZ	7032,0	1749	30	7	RUS		BPSK			AT3004D
MRASZ	7032,0	1843	31	7	RUS		BPSK			AT3004D
MRASZ	7038,7	ady	dly	7	UKR	D	A1A			"D" beacon
MRASZ	7038,8	1257	30	7	RUS	P	A1A			"P" beacon
MRASZ	7038,9	1844	31	7	RUS	S	A1A			"S" beacon
MRASZ	7078,0	1749	18	7			BPSK			AT3004D
MRASZ	7092,0	1255	30	7			F1B		250	
MRASZ	7092,0	1255	30	7			F1B			idling
MRASZ	7102,0	1254	21	7			BPSK			AT3004D
MRASZ	7120,0	1843	23	7	SOM		A3E			"Radio Hargaysa", daily
MRASZ	7123,0	1645	9	7			F1B		200	
MRASZ	7125,0	1832	1	7			BPSK			AT3004D
MRASZ	7132,0	1832	1	7			BPSK			AT3004D
MRASZ	7145,0	1848	31	7			NON			
MRASZ	7164,0	1752	30	7			BPSK			AT3004D
MRASZ	7178,0	1830	21	7			BPSK			AT3004D
MRASZ	7178,0	1753	30	7			BPSK			AT3004D
MRASZ	7182,0	1850	31	7			NON			
MRASZ	10144,4	1250	30	7			USB			italian male
MRASZ	14012,0	1657	9	7			F1B		250	
MRASZ	14024,0	1053	24	7						AT3004D
MRASZ	14026,0	1843	21	7						AT3004D
MRASZ	14026,0	1803	30	7	RUS		BPSK			AT3004D
MRASZ	14026,0	1053	24	7	RUS		BPSK			AT3004D
MRASZ	14026,0	1843	21	7	RUS		BPSK			AT3004D
MRASZ	14144,0	1845	21	7			???			similar sound as a woodpecker
MRASZ	14192,0	1659	9	7	RUS		F1B	50	200	printer, also on: 23
MRASZ	14221,0	2034	10	7			F1B		200	
MRASZ	14292,0	1857	31	7			F1B			
MRASZ	14292,0	1857	31	7			F1B		500	
MRASZ	14295,1	1700	9	7			A3E			3rd. of 4765; also on 16,21,30,31
MRASZ	28034,0	1252	25	7			A1A			Buoy "VV"
MRASZ	28046,0	1247	25	7			A1A			Buoy "VV"
MRASZ	28100,0	1253	25	7			F3E			Ui male
MRASZ	28145,0	1704	9	7			F3E			taxi from Moscow
MRASZ	28245,0	1709	9	7			F3E			taxi from Moscow

### OEVSV – Austria – OE3GSA (Gerd)

### PZK – Poland – SP3UZ (Wladyslaw)

### REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3501,0	19.09	10	07	E		J3E-U			Fishermen to port
REP	3505,0	20.01	07	07	MRC		J3E-U			Fishermen on sea
REP	<b>3575,0</b>	<b>07.30</b>	<b>10</b>	<b>07</b>	<b>F</b>		<b>A3E</b>			<b>French Amateurs INFRINGE IARU 80m BAND PLAN</b>
REP	7000,0	19.37	2	07	I		J3E-U			Italian pirates
REP	7000,0	19.30	15	07	F		J3E-U			French fishery
REP	7015,0	18.11	02	07			J3E-U			Chinese male and female voices
REP	7030,0	08.44	18	07	E		J3E-U			Fishermen sea-harbour
REP	7038,6	20.00	16	07	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038,7	20.56	16	07	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	21.18	16	07	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039,0	23.08	24	07	RUS	C	A1A			MOSCOW, ADY, DLY

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7039,1	23.26	24	07	RUS	A	A1A			VOLGOGRAD, ADY, DLY
REP	7039,2	22.58	24	07	RUS	F	A1A			KAMCHATSKY, ADY, DLY
REP	7039,3	21.40	20	07	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7039,5	22.15	14	07	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7041,0	21.59	14	07	RUS	L	A1A			PETERSBURG, ADY, DLY
REP	7100,0	22.32	08	07			WXFAX	rpm 120	IOC 576	Wx Prognosis Maps
REP	7105,0	22.43	12	07	CHN		8k00 A3EGN			Radio Broadcasting
REP	7115,0	18.22	28	07	E MRC		J3E-U			Male talks & voices
REP	7115,0	22.55	28	07			J3E-U			Tones and scrambled voices
REP	7120,0	22.07	28	07	.		F1B			RTTY non standard
REP	7165,0	23.50	28	07	RUS		A3E			Talks males and female
REP	7185,0	21.03	01	07			8k00 A3EGN			Radio Broadcasting
REP	10105,0	22.11	01	07	MRC		J3E-U			Fishermen
REP	10108,0	07.45	8	07	E		J3E-U			Spanish fishery
REP	10122,0	20.50	05	07			J3E-U			5 Letters Code station
REP	10125,0	22.19	22	07			J3E-L			Fishermen
REP	10134,0	06.53	24	07			J3E-U			Large arabic language net, fishermen
REP	10150,0	21.34	07	07			J3E-U			English voices and tones
REP	14000,0	08.32	08	07	MRC		J3E-U			Fishermen
REP	14000,0	08.05	08	07			F1B			RY RY RY
REP	14000,0	20.35	14	07	E		J3E-U			Spanish fishery
REP	14003,0	09.15	02	07	E		J3E-U			Fishermen
REP	14026,0	19.38	22	07	RUS		BPSK			Russina military AT3004D daily
REP	14062,0	09.25	15	07	E		J3E-U			Spanish fishermen
REP	14100,0	21.08	04	07			J3E-U			English talks two male, no calls
REP	14192,0	06.13	5	07	RUS		F1B	55	250	CIS50-50 Russin Navy – daily
REP	14195,0	19.39	2	07			J3E, NON			The 'Nino Show'
REP	14221,0	19.32	10	07	RUS		F1B	50	200	Russian F1B system encrypted - daily
REP	14265,5	08.55	08	07			F1B	300	170	Several Codes
REP	18100,0	12.00	18	07			A1			Carrier with fade
REP	21004,0	22.19	02	07			J3E-U			Inversed coded voices (fishermen ?)
REP	21010,0	09.19	17	07			J3E-U			Arabs (Morroco ?)
REP	21125,0	21.00	16	07	B		J3E-U			Brazilian pirates
REP	24937,5	13.13	29	07			F3E			Asian language fishermen, almost daily
REP	28000,0	20.32	17	07	B		J3E-U			Brazilian freebanders
REP	28040,0	08.55	6	07			F1B			Enagal GPS Buoy - daily
REP	28065,0	09.55	19	07	RUS		F3E			Taxis
REP	28070,0	20.33	16	07	F		A3E			CB's
REP	28070,5	19.15	16	07	F		A3E			CB's
REP	28135,0	11.32	19	07	RUS		F3E			Taxis
REP	28245,0	12.00	19	07	RUS		F3E			Taxis
REP	28250,0	08.57	6	07			F1B	82	140	Datawell buoy
REP	28275,0	11.21	19	07	RUS		F3E			Taxis
REP	29250,0	19.26	21	07			F1B	82	140	Datawell buoy
REP	<b>29310,0</b>	<b>19.13</b>	<b>9</b>	<b>07</b>	<b>E</b>		<b>F3E</b>			<b>DL ham - INFRINGE IARU R1 Bandplan</b>
REP	29500,0	19.37	25	07			F1B	82	148	Datawell buoy
REP	29525,0	14.30	30	07			F1B	82	140	Datawell buoy
REP	29555,5	19.31	25	07	B		J3E-U			Brazilian fishermen
REP	<b>28xxx.x</b>	<b>Daily</b>	<b>Daily</b>	<b>07</b>	<b>B</b>		<b>A3E &amp; J3E</b>			<b>Daily brazilian pirate activity</b>

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	1400-0700	*	7	ISR	UiPTR	F1B		200	50 Hz dotter, days: 10.-14. 17.-18. 28.-31.
SRAL	7000,0	0950	20.	7		UiMUX	J7D	12x120	12x200	
SRAL	7008,0	0810-0930	8. 24.	7		UiPTR	F1B		250	
SRAL	7008,0	1755-1930	18.	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7008,5	1040-1315	9. 24.	7		UiMUX	J7D	12x120	12x200	
SRAL	7010,0	1430	15.	7		UiMUX	J7D	12x120	12x200	
SRAL	7013,0	0745-1725	*	7	RUS	UiMUX	J7D	12x120	12x200	Days: 9. 16. 19. 23.
SRAL	7014,0	1640	10.	7	RUS	UiPTR	F1A			QRJ?
SRAL	7017,9	1040-1140	3.	7		UiCarr	N0N			
SRAL	7018,0	1125	19.	7		UiPTR	F1B		500	
SRAL	7018,75	0300-1630	*	7		UiPTR	F1B/ N0N		250	Days: 3. 11. 16. 17.
SRAL	7021,0	0600	21.	7		UiMUX	J7D	12x120	12x200	
SRAL	7022,0	0915-1310	25.	7		UiMUX	J7D	12x120	12x200	
SRAL	7029,0	0800-1425	17. 18.	7		UiMUX	J7D	12x120	12x200	
SRAL	7032,0	h24	21.- 31.	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7034,0	1130-1430	17. 18.	7		UiMUX	J7D	12x120	12x200	
SRAL	7034,0	1705-1755	23.	7		UiPTR	F1B		250	
SRAL	7037,0	0900-1420	3. 4.	7		UiMUX	J7D	12x120	12x200	
SRAL	7038,7	1600-0330	*	7	UKR	D	A1A			Sevastopol, 14 days
SRAL	7038,8	h24	*	7	RUS	P	A1A			Kaliningrad, 16 days, spur. +/- 38,8 kHz on 5. 0400-0700
SRAL	7038,9	h24	*	7	RUS	S	A1A			Severomorsk, 15 days
SRAL	7039,0	h24	*	7	RUS	C	A1A			Moscow, 17 days
SRAL	7043,0	1300-1530	25.	7	RUS	UiMUX	J7D	12x120	12x200	Kaliningrad
SRAL	7047,0	0200-1930	15. 26.	7		UiMUX	J7D	12x120	12x200	
SRAL	7048,5	0850-0935	27.	7		UiCW	A1A			MR 5BL
SRAL	7052,0	1555-1920	30. 31.	7	RUS	UiPTR	F1B		250	
SRAL	7054,0	0600-0700	30.	7	RUS	UiPTR	F1B		200	
SRAL	7078,0	0420-1930	17. 18.	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7086,5	1145-1235	17.	7		UiPTR	F1B/ N0N		500	
SRAL	7086,5	0525-0915	25.	7		UiPTR	F1B/ N0N		250	
SRAL	7088,0	0105-0205	11.	7		UiPTR	F1B			
SRAL	7090,5	0305-1920	24. 25.	7		UiMUX	J7D	12x120	12x200	
SRAL	7091,5	0730-1630	*	7		UiPTR	F1B		250	Idle, days: 2. .4. 13. 14. 17. 18.27. 30. 31.
SRAL	7097,0	0610	23.	7		UiPTR	F1B			
SRAL	7098,0	0950-1006/	20.	7		UiPTR	F1B		250	
SRAL	7113,5	1145	2.	7		UiPTR	F1B			
SRAL	7114,0	1120	19.	7		UiPTR	F1B		200	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7120,0	1900-2100	11.-31.	7	SOM	R. Hargeisa	A3E			
SRAL	7122,0	1040-1900	*	7		UiPTR	F1B		250	Days: 12. 14. 20.
SRAL	7123,0	0200-1930	8.-10.	7		UiPTR	F1B		200	ship
SRAL	7125,0	0430-1230	27.	7		UiMUX	J7D	12x120	12x200	Carrier on 7123 kHz
SRAL	7134,5	1425-1430	18.	7		UiMUX	J7D	12x120	12x200	
SRAL	7135,0	0725-1235	13. 21.	7		UiPTR	F1B			
SRAL	7138,0	1625	24.	7		UiPTR	F1B			
SRAL	7149,5	0705-1903/	26.	7		UiMUX	J7D	12x120	12x200	
SRAL	7152,0	1845	5.	7		UiMUX	J7D	12x120	12x200	
SRAL	7158,5	1600-1900	5.	7		UiMUX	J7D	12x120	12x200	
SRAL	7160,0	0635	25.	7		UiMUX	J7D	12x120	12x200	
SRAL	7162,0	0540-1310	17. 25.	7		UiPTR	F1B			
SRAL	7163,0	1730-1850	30.	7		UiMUX	J7D	12x120	12x200	
SRAL	7166,0	0415-1930	17. 18.	7	F	UiCW	A1A			MR 5L, ~ 20wpm
SRAL	7172,0	1020	20.	7		UiCW	A1A			MR 5BL
SRAL	7170,0	1755	23.	7		UiPTR	F1B		200	
SRAL	7178,0	0245-1930	*	7	RUS	UiMUX	J7D	12x120	12x200	Days: 2. 11. 21. 22. 25. 30. 31.
SRAL	7181,75	0315-1930	*	7	RUS	QJ2D	F1A/NON		250	Days: 1.-5. 12. 15. 31.
SRAL	7184,0	0420-0715	2. 18.	7		UiMUX	J7D	12x120	12x200	
SRAL	7197,0	1615	15.	7		UiMUX	J7D	12x120	12x200	
SRAL	7198,0	1650-1800	29.	7		UiMUX	J7D	12x120	12x200	
SRAL	7195,0-7200,0	1730-2100	dly	7	RUS	RRI	A3E			Splatter from BC-band 7215 kHz
SRAL	7200,0	0745-0900	1.	7		UiPTR	F1B		500	
SRAL	14 MHz	0630	6.	7	TUR/CYP	UiOTHR	FMCW			50Hz/20 kHz
SRAL	14008,0	0600-1300	*	7	RUS	UiPTR	F1B		250	Days: 7. 8. 17. 22. 24. 29.
SRAL	14026,0	0545-1845	*	7	RUS	UiMUX	J7D	12x120	12x200	Days: 10. 15. 16. 17. 19. 21. 22. 23. 24. 25. 26. 30. 31.
SRAL	14030,0	0735	26.	7		UiMUX	J7D	12x120	12x200	
SRAL	14050,0	0935-1000	24.	7		UiPTR	F1B			
SRAL	14053,0	1145	11.	7		UiMUX	J7D	12x120	12x200	
SRAL	14060,0	1255-1317/	23.	7		UiPTR	F1B		250	
SRAL	14086,0	0950-1035	15.	7		UiMUX	J7D	12x120	12x200	
SRAL	14110,0	0550-1830	*	7		UiPTR	F1B		250	Days: 5. 6. 15.
SRAL	14118,0	0855-1120	12. 26.	7		UiMUX	J7D	12x120	12x200	
SRAL	14141,0	1145	17.	7		UiMUX	J7D	12x120	12x200	
SRAL	14160,0	0540	25.	7		UiPTR	F1B		250	
SRAL	14162,0	0600-1035	14. 15.	7		UiMUX	J7D	12x120	12x200	
SRAL	14169,0	0645-0800	15. 17.	7		UiPTR	F1B			
SRAL	14185,8	0915	3.	7		UiPTR	F1B		500	
SRAL	14192,0	1200-	dly	7	RUS	UiPTR	F1B		200	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1930								
SRAL	14221,0	1900-0500	dly	7	RUS	UiPTR	F1B		200	
SRAL	14240,0	0535-0810	20.	7		UiPTR	F1B/N0N		250	
SRAL	14242,0	0655	13.	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	14258,0	0915	3.	7		UiPTR	F1B			
SRAL	14258,0	0855	16.	7		UiPTR	F1B/A1A		500	MR 5F
SRAL	14292,0	0820-2145	2. 31.	7		UiPTR	F1B		500	
SRAL	14295,2	h24	dly	7	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14302,0	0805-0940	11.	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	18 MHz	0430-1817/	*	7	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 8 reports, days: 4. 10. 13. 17. 18.
SRAL	21 MHz	0845	9.	7	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 19 reports
SRAL	21062,0	0745-0755	18.	7	RUS	UiMUX	J7D/ J3E-u	12x120	12x200	Russ. vox
SRAL	28 MHz	0810-1130	*	7	RUS	Taxi disp.	F3E			Days: 20. 24. 27. 16 reports
SRAL	29160,0	1000	24	7	RUS	UiVOX	R3E-u			Synthetic 5F

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1938	02	07			J3E-U			Italian; no ham content
USKA	7000.0	2258	04	07	RUS	P	A1A			Beacon P (malfunction?)
USKA	7000.0	2357	05	07			N0N			long lasting carrier often
USKA	7000.0	1406	09	07			J3E-U			French; no ham content
USKA	7000.0	2304	10	07			?		~500	rough signal (multi carriers)
USKA	7000.0	2313	11	07			?			rough signal and slow sweep
USKA	7000.0	0746	19	07			J3E-U			French speaking fishermen
USKA	7001.5	1940	02	07			F1B	100	200	ARQ system
USKA	7008.0	1822	18	07			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7008.0	0856	24	07		RWM	F1A		250	
USKA	7008.0	0858	24	07			F1B	75	250	
USKA	7032.0	0911	24	07			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D daily
USKA	7038.7	1842	01	07	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0702	01	07	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1844	01	07	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.3	0830	19	07	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7039.4	0829	19	07	RUS	M	A1A			Beacon M Magadan daily
USKA	7052.0	2037	30	07			F1B	75	250	
USKA	7058.0	1038	08	07			F1B	75	200	
USKA	7066.5	2242	07	07			J7D		2k7	CIS12 idling
USKA	7070.0	2149	06	07		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7077.6	2243	04	07	RUS	P	A1A			Beacon P (malfunction ?)
USKA	7078.0	2301	17	07			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7091.5	1533	14	07			F1B	100	250	
USKA	7093.5	1035	03	07			J7D		2k7	CIS12 idling
USKA	7114.0	1211	19	07			F1	~6.3Bd	200	2-tone Signal, ~146,26us
USKA	7119.0	2248	01	07			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7120.0	1825	01	07	SOM		A3E			Radio Hargaysa daily
USKA	7122.0	1739	20	07			F1B	75	250	
USKA	7122.9	1022	08	07			A1A			Jammer, splattering over ~3 kHz
USKA	7123.0	1022	08	07			F1B	75	200	
USKA	7124.0	1819	01	07			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7162.0	1527	14	07			F1B	75	250	often
USKA	7198.5	1905	20	07					~3k	unident digital signal daily
USKA	7200.0	2206	31	07			A3E		~10k	BC: Chinese language daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14004.0	1412	09	07			F1B	75	500	
USKA	14006.0	0930	31	07						Panther-H often
USKA	14026.0	1128	16	07			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14110.0	1028	05	07	RUS		F1B	75	250	
USKA	14136.0	2247	03	07			FMCW	66.66	10k	OTHR BD ~5s BRI 35s
USKA	14146.0	2234	03	07			FMCW	66.66	10k	OTHR BD ~5s BRI 35s
USKA	14172.0	0830	04	07						Panther-H
USKA	14191.915	1337	02				N0N			long lasting carrier
USKA	14192.0	0822	03	07			F1B	50	200	almost daily
USKA	14198.5	1254	02	07			F1B	600	600	ARQ system
USKA	14221.0	2304	01	07			F1B	50	200	almost daily
USKA	14238.0	2312	03	07			FMCW	66.66	10k	OTHR BD ~4s BRI 35s
USKA	14253.0	2304	03	07			FMCW	66.66	10k	OTHR BD ~4s BRI 35s
USKA	14292.0	1954	31	07			F1B	75	500	
USKA	14295.15	1414	03	07	TJK		A3E			BC; Radio Tajikistan daily (3rd of 4765 kHz)
USKA	14319.0	2254	01	07			FMCW	47	10k	OTHR BD ~5.4s BRI ~19s
USKA	14343.0	2011	18	07	330		MFSK8	125	1750	MIL 188-141A
USKA	14344.65	1923	01	07			PSK-8	2400	2k4	MIL188-110A modified daily
USKA	18070.0	1810	18	07			FMCW	50 sps	20k	OTHR often
USKA	28200.0	1059	20	07			?	var sps	50k	OTHR, long lasting often
USKA	29250.0	1832	18	07			F1B	81.9	140	Datawell buoy daily
USKA	29500.0	1821	03	07			F1B	81.9	140	Datawell buoy
USKA	29525.0	1824	03	07			F1B	81.9	140	Datawell buoy daily

## Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
VERON	7000,0	11.11	11	7		UiCAR	NON	carrier
VERON	7000,0	07.20	24	7	YB	UiLL	J3e-L	Malasian male voices
VERON	7038,7	19.51	9	7	UKR	D	A1A	beacon
VERON	7038,8	07.53	10	7	RUS	P	A1A	beacon
VERON	7038,8	08.15	29	7	RUS	P	A1A	P-beacon (also at: 30/07)
VERON	7038,9	19.51	9	7	RUS	S	A1A	beacon
VERON	7060,0	07.40	26	7	E	UiLL	J3e-U	Spanish male, fishery
VERON	7120,0	18.39	1	7	SOM	R.Has	A3E	speech
VERON	7120,0	18.10	10	7	SOM	Radio H.	A3E	music
VERON	7125,0	19.57	9	7		UiPtr	F1B	Ptr-Revs
VERON	7126,0	07.51	10	7		UiPtr	F1B	Ptr-Revs
VERON	7132,0	18.38	1	7	RUS	UiMUX	PSK2	12 MPSK AT3004-D
VERON	7132,0	19.58	9	7	RUS	UiMUX	PSK2	12 MPSK AT3004-D
VERON	7132,0	07.50	10	7	RUS	UiMUX	PSK2	12 MPSK AT3004-D
VERON	7132,0	18.10	10	7	RUS	UiMUX	PSK2	12 MPSK AT3004-D
VERON	10120,0	08.30	17	7		UiCAR	A1A	Strong Carrier (during long period)
VERON	14008,0	08.33	17	7	CIS	UiPTR	F1B	Carrier/Revs/Ptr (also at: 29/7)
VERON	14016,0	16.58	30	7		UiCW	A1A	5F in High Speed Morse
VERON	14026,0	07.43	10	7	RUS	UiMUX	PSK2	12 MPSK AT3004-D
VERON	14141,0	08.02	31	7		UiPTR	F1B	Ptr
VERON	14160,0	10.57	15	7		UiPTR	F1B	Ptr
VERON	14169,0	08.24	17	7		UiPTR	F1B	Ptr
VERON	14176,5	08.03	31	7		UiPTR	F1B	Ptr
VERON	14192,0	11.10	9	7	RUS	UiPtr	F1B	Ptr-Revs
VERON	14192,0	11.19	11	7	RUS	UiPtr	F1B	Ptr-Revs, also 12/7 at 08.20 utc
VERON	14192,0	12.55	11	7		UiPTR	F1B	Revs/Ptr (also at 29/7)
VERON	14300,0	11.15	11	7		UiMUX	PSK2	12 MPSK AT3004-D
VERON	18068,0	07.44	10	7		OTHR	FMCW	radar,18054-18075 KHz
VERON	18085,0	09.14	2	7		OTHR	FMCW	radar, 18068-18100 KHZ wide
VERON	18120,0	08.53	23	7		UiPTR	F1B	Ptr



# **The monitoring team of IARU Region 1**

**Many thanks for your interest!**

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