



Monitoring System

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The monthly newsletter for Region 1

February 2019

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Acknowledgements

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

Part 1: News and Infos

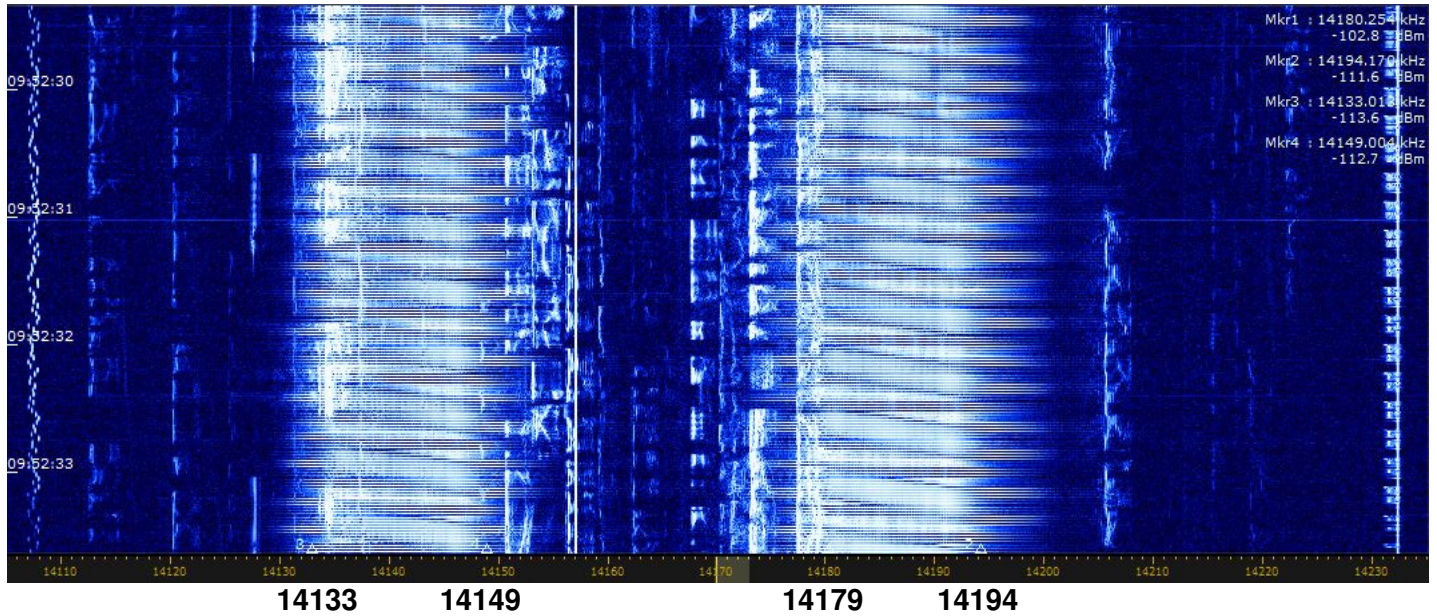
1. Russian OTH radar "Contayner" on 14 MHz

The Russian OTH radar "Contayner" caused severe problems on 14 MHz. Sometimes three signals were active at the same time, each system with 14 kHz bandwidth and many splatters. Parameters: FMOP - 40 sps

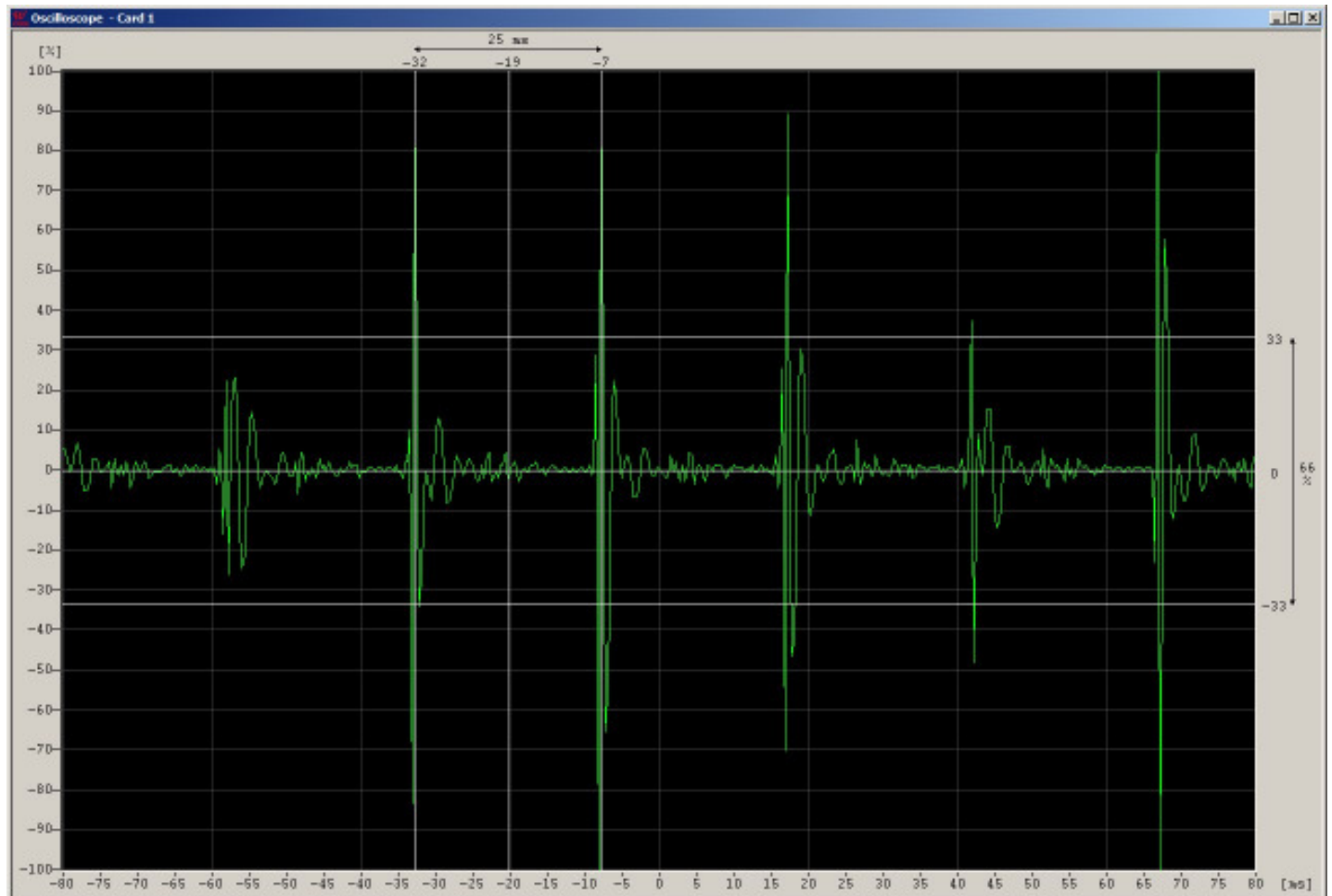
Location: North of Penza

The German PTT filed an official complaint, the Dutch PTT was informed.

Screenshot: Two systems at the same time on Feb. 22nd at 0952 utc

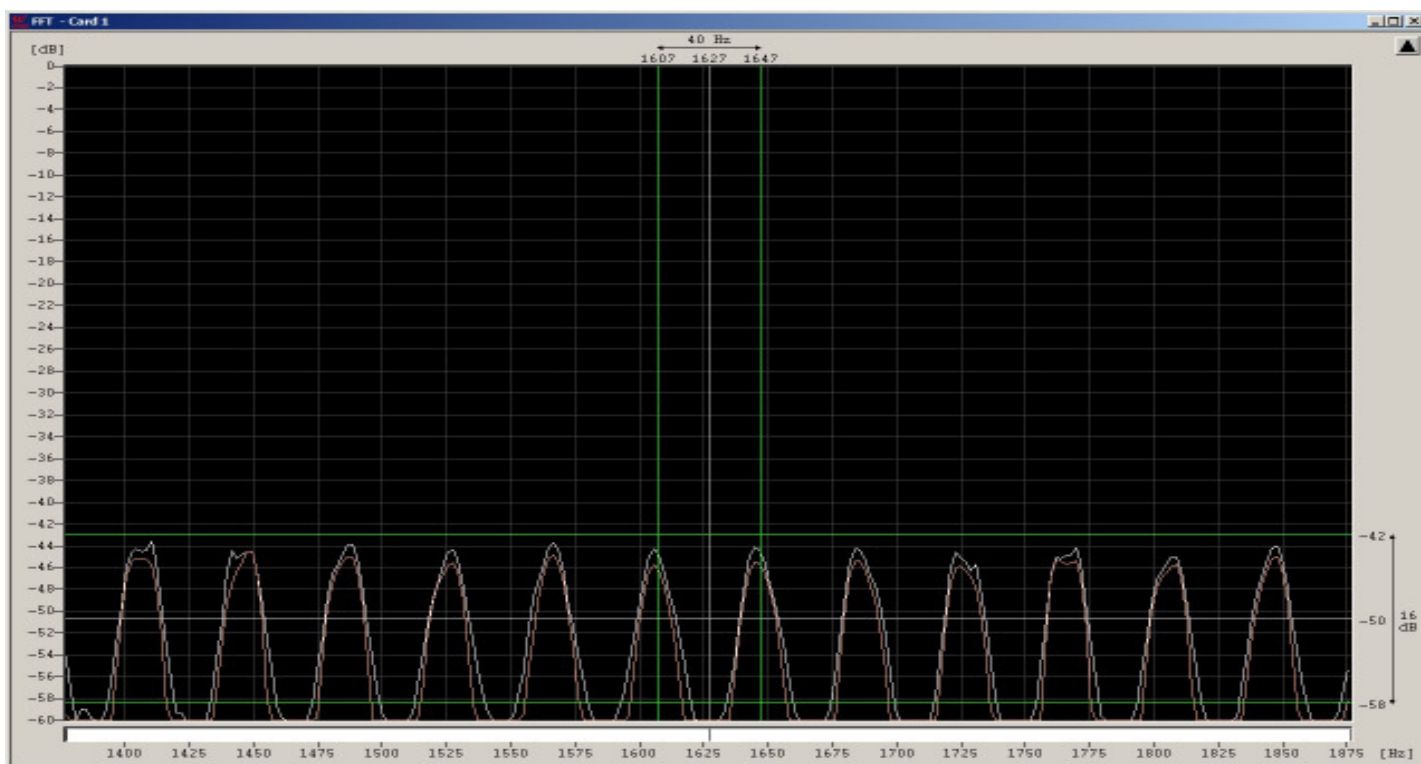


Oscilloscope analysis by Wavecom W-Code: 1000 msec : 25 msec = 40 sweeps/sec



2. Measuring the sweep rate by the W-Code FFT-option (or Perseus FFT)

A simple and fast method of a sweep rate measurement is using the FFT-option. Each sweep is causing one peak. The difference between 2 neighboring peaks = sweep rate, in this case 40 sweeps/sec.



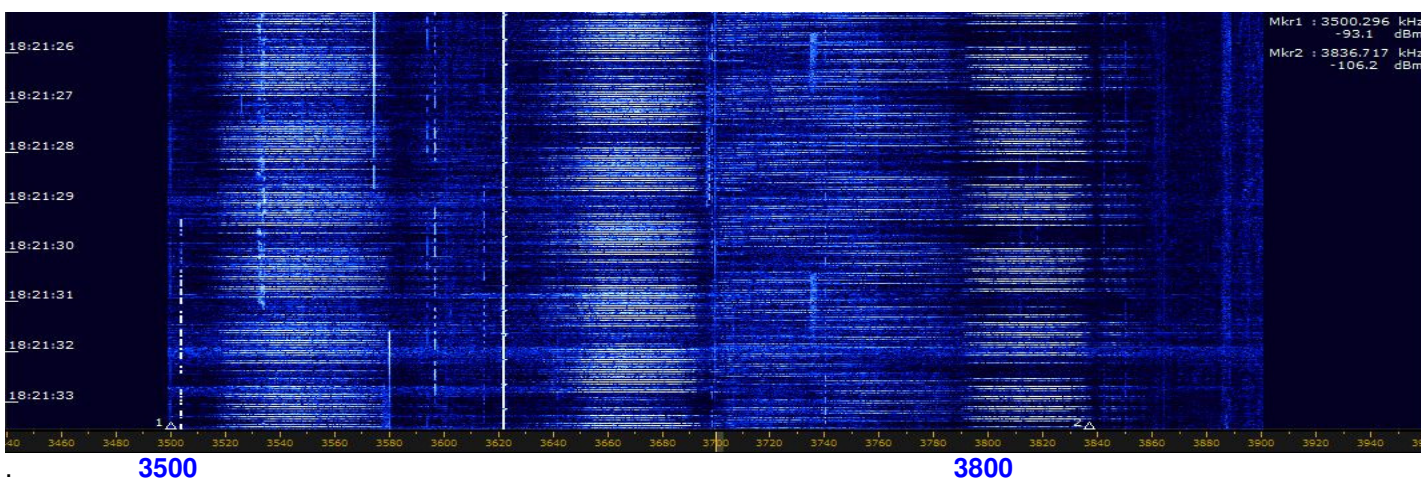
> 40 Hz < = 40 sweeps/sec

3. Russian coastal radar “Sunflower” (Podsolnuh)

The Russian coastal radar “Sunflower” was active between 5300 and 5420 kHz almost daily in the late noons and evenings. HAM traffic was often impossible in the evenings. Parameters: FMOP, 43 sps – location: Makhachkala, Caspian Sea westcoast

4. Far East Sunflower radars on 80 m

This screenshot gives an impression about the situation in Region 3 (area of Japan). The 80 m-band is crowded of Sunflower coastal radars. Date and time: Feb. 14th at about 1820 utc



5. Miscellaneous news:

- 5350.0 kHz – USB splattering up – Spanish fishermen – every evening
- 7120.0 kHz – A3E – Radio Hargeisa off in February 2019
- 7140 and 7180 kHz – A3E – Radio Eritrea without QRM (German PTT informed)
- 14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change regardless many complaints)

- 6. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- Homepage IARUMS Region 1 <http://www.iarums-r1.org>
- Homepage IARUMS Region 2 <http://www.iarums-r2.org/>
- Homepage IARUMS Region 3 <http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>
- Intruderlogger Region 1 <http://peditio.net/intruder/bluechat.cgi>
- ITU-Monitoring Reports <http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

Part 2: Detailed reports of the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** BD = Baud *** SH = shift *** SP = spacing *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** OFDM = 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 *** **PRF** = pulse repetition frequency (radar) = **sps** *** **sps** = sweeps/sec (radar systems) *** **FMCW** = frequency modulated continuous wave (OTH radars)
FMOP = frequency modulation on pulse (OTH radars) *** **5BL** = cyrillic 5 lettergroups *** **DF** = direction finder

DARC – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

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

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

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	2130	27	02	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad
DK2OM	1855,0	2150	18	02	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1925,0	2150	18	02	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3501,6	2045	01	02	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3511,0	2120	08	02	RUS		PSK2A	120	2600	AT3004D – area of Sevastopol
DK2OM	3512,0	2100	27	02	RUS		PSK2A	120	2600	AT3004D – submode idle - Sevastopol
DK2OM	3521,8	2059	18	02			PSK8A	2400	2400	Stanag-4285 – short transmission
DK2OM	3525,0 RF	1840	04	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	dly	02	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	02	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	2040	13	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3536,0	1759	11	02			PSK2A	120	2600	AT3004D -
DK2OM	3536,0	2000	17	02	E		USB			Spanish fishery
DK2OM	3550,0	0630	dly	02	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,7	---	--	02	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3553,8	ady	dly	02	TUR		PSK8A	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3568,0	1950	18	02	RUS		F1B	50	250	Moscow
DK2OM	3577,4	2157	06	02	E		F1B	300	250	3577.35 center - bursts with spurious emissions – area of Madrid
DK2OM	3580,0 RF	2130	26	02	TUR		PSK8A	2400	2400	Stanag-4285 – 600 bps long - Adana
DK2OM	3584,0	2145	06	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	3585,0	ady	dly	02	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3586,0	vt	dly	02	HOL		PSK2A	40	40	Amsterdam - daily
DK2OM	3594,2	---	--	02	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	02	RUS	K	A1A			Cluster beacon - Petropavlovsk

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Kamchatskiy - RUS Navy - Pacific fleet - "RCC"
DK2OM	3622,5	ady	dly	02	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3756,0	1800	dly	02	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily
DK2OM	5320,0	1550	05	02	RUS		FMOP		50k	Russian coastal radar "Sunflower" – 43 sps – 5320 – 5370 kHz - Makhachkala
DK2OM	5350,0	vt	vd	02	E		USB			Spanish fishery – splattering up
DK2OM	5350,0	2020	11	02	RUS		FMOP		65k	Russian coastal radar "Sunflower" – 43 sps – 5340 – 5405 kHz - Makhachkala
DK2OM	5350,0	1640	17	02	RUS		FMOP		100	Russian coastal radar "Sunflower" – 43 sps – 5310 – 5410 kHz - Makhachkala
DK2OM	5350,0	1950	24	02	E		USB			Spanish fishery splattering up and also disturbing the Russian radar „Sunflower“- very often
DK2OM	5361,8 RF	2025	24	02	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	5360,5	---	--	02	RUS		F1B	50	200	Moscow - legal
DK2OM	5361,8	1430	20	02	RUS		PSK2A	120	2600	AT3004D – submode idle – Caspian Sea
DK2OM	7000,0	1800	12	02	INS		LSB			Indonesian pirates - splattering up – singing and playing music - daily
DK2OM	7000,0	2030	19	02	E		USB			Spanish fishery
DK2OM	7000,9	---	--	02	RUS		OFDM	35.55	2760	OFDM 60 – PSK 8B – area of Smolensk
DK2OM	7001,0	2005	01	02	MRC		LSB			Moroccan fishery
DK2OM	7003,0	1453	21	02	CHN		FMOP		160k	Chinese wideband OTH radar - 20 sps – 6843 – 7003 kHz
DK2OM	7005,0	vt	dly	02	INS		LSB			Indonesian pirates
DK2OM	7010,0	1040	04	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7010,0	vt	26	02	INS		LSB			Indonesian pirates
DK2OM	7015,0	vt	dly	02	INS		LSB			Indonesian pirates – male and female voices
DK2OM	7020,0	vt	vd	02	ALB		FSK8	125	1750	ALE, "CS004A" "RS004D" "CS004" - daily
DK2OM	7022,0	1343	14	02	RUS		PSK4B	120	2600	AT3104D - Moscow
DK2OM	7025,0	vt	12	02	INS		LSB			Indonesian pirates singing
DK2OM	7035,0	vt	12	02	INS		LSB			Indonesian pirates singing
DK2OM	7039,4	2046	02	02	RUS	M	A1A			Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily
DK2OM	7050,0	vt	dly	02	KGZ		FSK8	125	1750	ALE, "X" "810" "820615" "810698" – Kyrgyzstan MIL
DK2OM	7050,0	1831	21	02	CHN		FMOP		160k	Chinese wideband OTH radar - 10 sps – 6890 – 7050 kHz
DK2OM	7050,5	0859	05	02	RUS		PSK2A	120	2600	AT3004D – submode idle – St. Peterburg
DK2OM	7055,0	vt	dly	02	UKR		LSB			music and Russian voices
DK2OM	7070,0	---	--	02	GEO		FSK8	125	1750	ALE, „20001“ „10003“ „2201“ „2203“ „686“ „288“ „220“ „571“
DK2OM	7070,0	1531	21	02	CHN		FMOP		160k	Chinese wideband OTH radar - 10 sps – 6910 – 7070 kHz
DK2OM	7088,8	0814	02	02	S	SL0FRO	A1A			7088.820 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,0	0815	02	02	RUS		PSK2A	120	2600	AT3004D - Volgograd
DK2OM	7089,8	---	--	02	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7098,0	0838	12	02	RUS		F1B	75	250	Moscow

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7112,0 LSB	vt	15	02	CHN		PSK4A	60	2350	burst system "PRC-30" – 30 tones – 450 Hz pilot tone
DK2OM	7117,0	---	--	02	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7120,0	---	--	02	SOM		A3E		9k	Radio Hargeisa – Somaliland
DK2OM	7137,0	vt	dly	02	TWN		FSK8 LSB	125	1750	ALE, MIL-188-141A, "FBABA" "FWKMB" "FXIBY" "FCPSL" "FHKHD" "FVIKE" "FHVWY" "FCUGP" "FDRRK" "FWIML" "FBQCY" Taiwanese navy
DK2OM	7140,0	1827	dly	02	ERI		A3E		9k	7140.024 kHz - Radio Eritrea
DK2OM	7143,8	1950	28	02	AUS		F1B	100	170	Codan-Selcal – idents: „8888“ „7974“ „3105“
DK2OM	7145,0	2200	21	02	KAZ		PSK2A		6600	AT3004D ? – submode idle ? – 7142 – 7148.6 kHz – broken system? - Kazakhstan
DK2OM	7180,0	1526	dly	02	ERI		A3E		9k	7180.022 kHz - Radio Eritrea
DK2OM	7193,0	---	--	02	RUS	RDL	F1B	50	200	CIS36-50 - Kaliningrad
DK2OM	7197,0	vt	dly	02	TUR		FSK8	125	1750	ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense
DK2OM	7200,0	---	--	02	MMR		A3E		9k	Myanmar Radio
DK2OM	7201,0	1509	15	02	RUS		PSK2A	120	2600	AT3004D – modem idle – 7199.7 – 7202.3 kHz - Moscow
DK2OM	10100,8	ady	dly	02	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10115,0	1713	12	02	CYP		FMCW		20k	UK OTH radar Cyprus – 50 sps
DK2OM	10123,0	1920	20	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza
DK2OM	10126,0	1040	08	02	RUS		F1B	50	500	Sevastopol
DK2OM	10127,0	1050	08	02	MRC		USB			pirates in Arabic voice – disturbing HAM traffic – daily – all day – vy strong via EA8
DK2OM	10130,0	0846	01	02	RUS		F1B	50	500	unclean - area of Chita – daily, all day
DK2OM	10130,0	vt	vd	02			USB			French amateurs not respecting bandplans
DK2OM	10130,0	2125	22	02	CYP		FMOP		20k	UK OTH radar Cyprus – 50 sps
DK2OM	10144,0	ady	dly	02	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10153,0	1446	15	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza
DK2OM	13999,0 RF	---	--	02	RUS		OFDM	33.4	2880	OFDM 60 – 13999.0 – 14002.3 kHz - Moscow
DK2OM	14000,0	vt	dly	02	FEa		USB			Far East pirates – east of Indonesia
DK2OM	14000,0	1144	01	02	RUS		FMOP		14k	OTH radar Contayner - 40 and 10 sps – area of Penza
DK2OM	14000,0 RF	1510	01	02	IRL		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Ireland – ship?
DK2OM	14000,0	0808	09	02	NW Af		USB			pirates in Arabic voice - southwest
DK2OM	14001,8	---	--	02	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	14085,0	1435	23	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza
DK2OM	14100,0	1407	25	02			A1A			„321“ loop – reported by a HAM
DK2OM	14100,0	1519	25	02			A1A			„245“ loop - reported by a HAM
DK2OM	14116,0	0907	15	02	RUS		F1B	50	250	Moscow
DK2OM	14117,0	1130	08	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza
DK2OM	14140,0 14186,0	0940 0940	23 23	02 02	RUS		FMOP FMOP		14k 14k	OTH radar Contayner - 40 sps – north of Penza – long lasting

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14186,0	0915	22	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14192,0	1620	08	02	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14221,0	0520	dly	02	KGZ		F1B	50	200	Bishkek – mostly idling - daily various times
DK2OM	14230,0	0951	19	02	CHN		FMOP		10k	Chinese OTH radar – 2.5 sec bursts - 50 sps - jumping
DK2OM	14240,0	0919	01	02			F1B	100	250	very unclean
DK2OM	14280,0	1010	06	02	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14292,0	0900	24	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14295,2	0900	17	02	TJK		A3E/BC		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14318,0	0900	24	02	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14344,0	0945	19	02	CHN		FMOP		10k	Chinese OTH radar - 3.7 sec bursts - jumping
DK2OM	14348,5	vt	dly	02	THA	HSOZEA	A1A			HSOZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!
DK2OM	18065,0	0820	19	02	CYP		FMOP		20k	UK OTH radar Cyprus – 25 sps – 18055 – 18075 kHz - long lasting
DK2OM	18080,0	---	--	02	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18107,0	---	--	02	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18150,0	---	--	02	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21145,0	vt	dly	02	MRC		FSK8	125	1750	ALE, “A” “B301” “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “J52” “GR2” “GS4” “R3” “R301” “R33” “R8” “R5” “Y1” “S51” “S3” “S4” “S512” “S552” “G2” “G501” - various times, daily
DK2OM	21438,0	vt	vd	02	RUS	RCV	A1A			RKZ – RJV de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	---	--	02	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	02	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	---	--	02	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	---	--	02	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	3743	1300	11	02			USB	A male voice calls as “2EM” and wants a QSO with “5LN” for a radio check. “5LN” answers back after about 10 minutes but “2EM” does not copy. They switch over to digital traffic.
IRTS	3792	1908	15	02			USB	A female voice reads numbers in German.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
								Transmission ends at 1910z.
IRTS	5348	1600	10	02				Radar from 5348 to 5401 KHz . Always coming up in the afternoon, running all night and early morning. Ruins the WARC 5 MHz band for weak traffic.
IRTS	5363.7	2020	02	02	MRC or MM		LSB (!)	Moroccan fishermen.
IRTS	5400	1550	16	02	F or MM		USB	2 French fishermen. Very loud. UK/EI CW spot frequency. Also heard at 2155 on the same day. Also heard on the 17 th at 1250z. Always bleeding down to 5398.5 KH- UK/EI SSB spot frequency.
IRTS	5398.5	1730	01	02				Huge radar signal from 5378 to 5405 KHz. Nearly a daily event every evening and night. Makes this part of the band unusable.
IRTS	5398.5	1100	08	02			Digital	Huge digital signal covering the channel from 1100 to 1215z.
IRTS	5403.5	1543	05	02	HOL		USB	A Dutch HAM uses this UK/EI spot frequency to call into a SOTA activation. Not the first time this HAM is using a frequency outside of the Dutch allocation. This Dutch OM is still stuck in the old abolished allocation for the Netherlands.
IRTS	7050	1325	02	02	RUS/UKR		LSB	Slogans against Putin run on a continuous loop. Propaganda like this was heard nearly all day every day.
IRTS	7055	1320	02	02	RUS/UKR		LSB	Shouting of propaganda slogans and playing of patriotic music. Huge signal. Nearly daily all day.
IRTS	7081	1710	17	02				Radar from 7081 to 7097 KHz. Very strong.
IRTS	7110	1510	05	02	RUS/UKR		LSB	Russian propaganda music. Huge signal. Ends at 1525z.
IRTS	7130	2010	08	02	B		USB	Brazilian pirates. Group of about 6 males. Ends at 2030. A female voice comes up at 2040, but gets no answer.
IRTS	7140	1745	01	02	ERI		AM	Radio Eritrea. Occasionally in the late afternoon and early morning.
IRTS	7180	2020	09	02	E or MM		USB	2 Spanish fishermen.
IRTS	7194	1100	20	02				Strong digital signal. Still on at 1430z.
IRTS	10110	1730	25	02	MRC or MM		MRC or MM	2 Moroccan fishermen having a nice time.
IRTS	10122.2	1930	24	02	KOR		USB	2 Korean fishermen chatting.
IRTS	10127	1620	08	02	MRC or MM		USB	2 Moroccan fishermen. Big signals. On and off until 1815z. Heard also on the following days and times: 17/2 at 0745, 1225, 1705. 18/2 at 1135. 19/2 at 1145. 20/2 at 1130. 22/2 at 0820. 23/2 at 0915 and 1115.
IRTS	10127.3	1815	08	02	KOR		USB	2 Korean fishermen chatting. Ends at 1815 to 1845z.
IRTS	10131.7	1725	17	02	INS		USB	2 Indonesian fishermen. Very strong, good audio.
IRTS	14173	0915	22	02				Very strong radar signals from 14173 to 14194 KHz.
IRTS	14175	0730	22	02				Huge radar signals from 14175 to 14193 KHz.
IRTS	14192	1210	09	02	RUS		F1B	RUS navy Kaliningrad. Heard weakfish during hours of daylight.
IRTS	14195	1430	20	02				Strong radar from 14195 to 14210 KHz.
IRTS	14228	1418	05	02			USB	Ticking sound. One tick per second. Persistent and loud.

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3503,0	1947	28	2			PSK2		AT3004D
MRASZ	3507,0	1854	4	2			A1A		dashes, deliberate disturbance
MRASZ	3507,4	0930	16	2			A1A		dotter, deliberate diturbance
MRASZ	3510,0	1916	4	2			LSB		scrambled voice
MRASZ	3510,0	1708	27	2			USB		russian?
MRASZ	3512,0	1717	27	2			PSK2		AT3004D
MRASZ	3512,0	1757	28	2			OTHR		3511,5 -351,4 kHz
MRASZ	3515,0	1949	4	2			A1A		"XAMKJ HNRMU AZQSV"
MRASZ	3520,0	1758	27	2			A1A		dotter, deliberate disturbance
MRASZ	3524,0	1752	14	2			F1B	250	
MRASZ	3524,0	1723	27	2			PSK2		AT3004D
MRASZ	3525,2	1824	28	2			A3E		instable carrier
MRASZ	3527,0	2009	21	2			F1B	200	
MRASZ	3530,0	1616	26	2			USB		numbers, russian women
MRASZ	3531,0	1920	12	2			F1B	500	
MRASZ	3541,0	1724	27	2			PSK2		AT3004D
MRASZ	3548,0	1845	28	2			NON		
MRASZ	3550,0	1756	28	2			PSK2		AT3004D
MRASZ	3552,0	1734	27	2			PSK2		AT3004D
MRASZ	3557,0	1646	25	2			PSK2		AT3004D
MRASZ	3557,0	1617	26	2			F1B	200	
MRASZ	3558,0	1632	26	2			PSK2		AT3004D
MRASZ	3563,0	1850	28	2			PSK2		AT3004D
MRASZ	3572,5	2018	21	2			F1B	200	
MRASZ	3572,5	1725	27	2			F1B	200	
MRASZ	3572,5	1945	28	2			F1B	200	
MRASZ	3577,5	1948	28	2			A1A		"53R7 (III) QLW QSA? QRK? QXS?"
MRASZ	3593,0	1733	27	2			PSK2		AT3004D
MRASZ	3595,0	1921	12	2			F1B	250	
MRASZ	3597,0	1751	12	2			PSK2		AT3004D
MRASZ	3600,0	2010	21	2			A3E		unidentified
MRASZ	3600,0	3952	28	2			A3E		german HAM, with OE., PE stations
MRASZ	3603,5	1618	26	2			PSK2		AT3004D
MRASZ	3603,5	1727	27	2			PSK2		AT3004D
MRASZ	3606,0	1750	28	2			F1B	250	
MRASZ	3608,0	2012	21	2			F1B	200	
MRASZ	3616,5	1728	27	2			PSK2		AT3004D
MRASZ	3616,5	1751	28	2			PSK2		AT3004D
MRASZ	3632,0	1751	27	2			PSK2		AT3004D
MRASZ	3705,0	1622	26	2			A1A		"HLJLM BJÄÖA.... ÜNANZ"
MRASZ	3705,0	1625	26	2			A1A		"ZGR K"
MRASZ	3707,0	1729	27	2			PSK2		AT3004D
MRASZ	3707,0	1754	28	2			PSK2		AT3004D
MRASZ	3709,0	1754	28	2			PSK2		AT3004D
MRASZ	3714,0	1626	26	2			F1B	250	
MRASZ	3725,0	2002	28	2			A1A		"UROKH IÖÖSÜ YFNÄD"
MRASZ	3757,0	1627	26	2			F1B	200	
MRASZ	3767,0	1730	27	2			PSK2		AT3004D
MRASZ	3785,0	1626	19	2			NON		
MRASZ	3792,0	1925	1	2			F1B	200	
MRASZ	3792,0	1802	4	2			F1A	200	"284422 57076 82873"
MRASZ	3797,0	1627	26	2			F1B	250	
MRASZ	7024,0	0821	28	2			USB		non HAM traffic
MRASZ	7025,0	2008	21	2			OTHR		7000-7050 kHz
MRASZ	7030,0	0826	28	2			F1B	200	
MRASZ	7050,0	0933	2	2			LSB		music, singing
MRASZ	7050,0	1009	2	2			A1A		"VVVVV 1234567890"
MRASZ	7050,0	1009	2	2			LSB		propaganda
MRASZ	7050,0	1408	14	2			LSB		music
MRASZ	7050,0	0824	20	2			LSB		mentioning "Putin"
MRASZ	7050,0	1512	22	2			LSB		music, singing
MRASZ	7050,0	0743	24	2			LSB		anti Putin

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	7050.0	1634	27	2			LSB		swear, russian
MRASZ	7050.0	0827	28	2			LSB		propaganda, music
MRASZ	7055.0	1350	2	2			LSB		foolish speech
MRASZ	7055.0	0824	20	2			LSB		retranslating a BC stn
MRASZ	7055.0	1428	22	2			LSB		chaos
MRASZ	7055.0	0743	24	2			LSB		anti Putin
MRASZ	7055.0	1614	26	2			LSB		music, chaos
MRASZ	7055.0	0827	28	2			LSB		music
MRASZ	7089.0	0930	2	2			PSK2		AT3004D
MRASZ	7089.0	2007	21	2			PSK2		AT3004D
MRASZ	7140.0	1447	22	2	ERI		A3E		Radio Eritrea
MRASZ	7140.0	1742	28	2	ERI		A3E		R. Eritrea
MRASZ	7150.0	1655	27	2			LSB		non HAM traffic, unidentified
MRASZ	7180.0	1741	28	2	ERI		A3E		R. Eritrea
MRASZ	7193.0	1354	2	2			F1B	200	
MRASZ	7193.0	0828	20	2			F1B	200	
MRASZ	10103.0	1359	2	2			NON		
MRASZ	10103.0	0829	20	2			F1B	500	
MRASZ	10103.0	0830	20	2			F1A		"QÜJPQ OCKLH ÄEÜÄS"
MRASZ	10130.0	0935	2	2			F1B	500	hrd: 08, 16, 20, 28
MRASZ	14049.0	0855	24	2			F1B	200	
MRASZ	14099.0	0832	20	2			OTHR		14079-14119 kHz
MRASZ	14115.0	0801	8	2			OTHR		14100-14130 kHz
MRASZ	14132.0	0827	28	2			A1A		dotter, deliberate disturbance

OEVSZ – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh/Bw	DETAILS
R.E.F.									February 2019
F5MIU	3508	1802	1	02			USB		Russian voice listing numbers S5
F5MIU	7000	1740	21	02			fmcw	200kHz	OTH Radar pulsed 100ms,S6
F5MIU	10125	1820	28	02			fmcw	20kHz	OTH Radar pulsed 40ms,S7
F5MIU	14085	1636	23	02			fmcw	15kHz	OTH Radar pulsed 25ms,S9+
F5MIU	14100	0852	20	02			fmcw	40kHz	OTH Radar pulsed 100ms,S6
F5MIU	14115	0832	8	02			fmcw	20kHz	OTH Radar pulsed 25ms,S5
F5MIU	14140	0852	23	02			fmcw	20kHz	OTH Radar pulsed 25ms,S8
F5MIU	14185	0852	23	02			fmcw	20kHz	OTH Radar pulsed 25ms,S8
F5MIU	14186	0904	22	02			fmcw	15kHz	OTH Radar pulsed 25ms,S7
F5MIU	14290	0829	25	02			fmcw	15kHz	OTH Radar pulsed 25ms,S9+
F5MIU	14310	0829	25	02			fmcw	15kHz	OTH Radar pulsed 25ms,S9+
F5MIU	18065	0842	19	02			fmcw	20kHz	OTH Radar pulsed 40ms,S9
F5MIU	18070	0844	28	02			fmcw	20kHz	OTH Radar pulsed 20ms,S9

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	07.10	02	02	E		J3E-U			Spanish fishery
REP	3515	07.19	01	02	POR		J3E-U			Portuguese fishery
REP	3516	06.52	19	02	J		J3E-U			Japanese fishery, Atlantic sea
REP	3520	09.18	18	02	F		J3E-U			French fishery
REP	3532	06.46	19	02	E		J3E-U			Spanish fishery
REP	3550	06.47	19	02	F		A3E			French amateurs ignoring IARU Bandplan
REP	3550	06.45	19	02	RUS		J3E-U			Russian language intruders
REP	3555	08.00	07	02	E		J3E-U			Spanish fishery
REP	3560	07.04	11	02			J3E-U			Unid language ops

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3564,5	07.01	19	02			J3E-U			Unid Asian language fishery
REP	3568	08.50	19	02			PSK8			Stanag 4285 NATO 600/Long NOTE: shared Band
REP	3590	06.54	19	02	F		A3E			French amateurs ignoring IARU Bandplan
REP	3626	07.42	19	02			J3E-U			Arabic dialect comms, not amateur ops
REP	3632	07.39	19	02	MRC	2417	MFSK8			Mil Std 188-141A Ale net, purportedly Moroccan Civil Defense network
REP	3640	06.40	19	02	G	XSS	MFSK8			UKDHFS Defense network Mil Ale sounding, FYI only
REP	3640	06.58	19	02	J		J3E-U			Japanese fishery, Atlantic
REP	3650	07.05	13	02	E		J3E-U			Spanish fishery
REP	3756	23.59	05	02	RUS		A3E			Russian marker
REP	5353	19.51	20	02			J3E-U			Unid asian dialect fishery
REP	7005	08.08	18	02	B		J3E-L			Brazilian intruders, families
REP	7010	21.10	12	02			J3E-L			Scrambled voice comms
REP	7025	14.00	16	02			J3E-L			Unid language ops
REP	7040	10.20	26	02	F		J3E-U			French fishery, all day long conversations
REP	7045	Dly	Dly	02		2010	MFSK8			Mil Std net, daily
REP	7070	13.59	20	02	MRC	AGADIR	J3E-U			Op calling AGADIR, conversation in Arabic/French
REP	7080	16.10	03	02	RUS		F1B	75	250	CIS50
REP	7095	23.30	01	02	CHN		FMOP	10	160k	Chinese OTH radar wideband
REP	7100	20.30	03	02	RUS		F1B	50	200	CIS36
REP	7105	06.42	21	02			J3E-U			Arabic lang. fishery
REP	7135	07.00	10	02	RUS		FSK			CIS 36-50 50/200 Russian mil.
REP	7175	19.00	12	02	RUS		FSK	75	200	Russian CIS50 encrypted FSK
REP	7193	09.05	04	02	RUS		FSK	50	200	Russian CIS36-70 encrypted
REP	10101	10.17	21	02			J3E-U			Arabic-like dialect conversation
REP	10112	14.05	17	02		E07	A3E			E07 spy numbers station, 5 letter groups
REP	10115	20.10	09	02			A3E			Coded Station-5 letter groups
REP	10122	10.16	21	02			J3E-U			Unid language conversation
REP	10122,5	10.10	07	02			J3E-U			Arabic language fishery, N. Africa
REP	10123	19.49	20	02			FMOP			OTH radar 20sps/20kHz
REP	10127	10.10	07	02			J3E-U			N. African fishery arabic/french
REP	10132,7	17.15	19	02			J3E-U			N. African fishery arabic/french
REP	10140	10.14	19	02			J3E-U			N. Africa fishery arabic/french
REP	10140	09.33	23	02			FMOP			OTH radar 50sps/20kHz
REP	14020	11.20	04	02	RUS		PSK2	120	3k	AT3004
REP	14110	12.00	04	02			FMCW			OTH radar
REP	14145	15.22	14	02	CHN		FMOP	10	100k	Chinese OTH radar
REP	14155	15.45	14	02	E		J3E-L			Spanish fishery
REP	14180	09.35	23	02			FMOP			OTH radar 50sps/20kHz
REP	14240	10.44	14	02	CHN		FMOP	10	160k	Chinese OTH radar
REP	14300	08.05	01	02	E		J3E-U			Spanish fishery
REP	18105	13.18	25	02			FMCW	50	20k	OTH radar
REP	21200	16.05	02	02	MRC		J3E-U			Fishermen
REP	28555	09.00	01	02	RUS		F3E			Taxis dispatcher

RSGB – United Kingdom – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	5350.0	vt	vd	02	RUS				40K0E	'Sunflower' OTHR. 43 sps
RSGB	5353.6	ady	05-10, 26	02	DNK		G1D		2K40E	For info:Primary user: USB 5351.8 / Stanag 4285
RSGB	7008.0	0800	05	02			J3E			LSB Muezzin-style chanting
(RSGB	7010.0	0941	04	02			J7D		2K70E	USB 7008.0 / CIS-12
RSGB	7022.0	1432	14	02			J7D		2K70E	USB 7020.0 / CIS-12

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	7030.0	0959	28	02			F1B		250	
RSGB	7038.5	ady	dly	02	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7050.5	0835	05	02			J7D		2K70E	USB 7048.5 / CIS-12
RSGB	7055	vt	dly	02			J3E		2K70E	LSB Ukranian/Russian ops squabbling
RSGB	7089.0	0909	02	02			J7D		2K70E	USB 7087.0 / CIS-12
RSGB	7116.0	1342	12	02			F1B		200	
RSGB	7140.02	vt	02	02	ERI	VoBM1	A3E			BC
RSGB	7144.0	1144	12	02			J7D		2K70E	USB 7142.0 / CIS-12
RSGB	7150.0	0828	11	02			N0N			Plain carrier. Ceased at 1335.
RSGB	7162.0	0907	25	02			F1B		250	
RSGB	7187.0	1657	07	02					10K0E	OTHR FMCW
RSGB	7193.0	vt	01, 02 04, 09 20	02	RUS		F1B		200	
RSGB	7194.0	0753	12	02			J7D		2K70E	USB 7192.0 / CIS-12
RSGB	10100.8	ady	dly	02	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	10105.0	0837	06	02			J7D		2K70E	For info: Primary user USB 10103.0 / CIS-12
RSGB	14084.0	1242	23	02	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14117.0	0942	08	02	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14141.0	0838	23	02	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14186.0	0918 0826	22 23	02	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14192.0	1318	25	02			F1B		200	
RSGB	14224.0	1000	14	02					10K0E	OTHR bursts every 45s
RSGB	14259.0	1000	14	02					10K0E	OTHR bursts every 45s
RSGB	14291.0	ady	24, 25	02	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14310.0	0748	27	02	CHN	R. China	A3E			Probably BC spurious
RSGB	14317.0	ady	24, 25	02	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	18060.0	1249	27	02			P0N		20K0E	OTHR FMOP 25 sps
RSGB	18065.0	0912	19	02			P0N		20K0E	OTHR FMOP 25 sps
RSGB	18070.0	1040	25	02			P0N		20K0E	OTHR FMOP 50 sps
RSGB	18153.0	1332	05	02			P0N		14K0E	OTHR
RSGB	18165.0	1007	28	02			P0N		20K0E	OTHR FMOP 50 sps

RSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	Identity	MODE	Shift	Details
RSK	7000	v.t.	nr. dly.	2	Kenya?	?	PSK	2750	STANAG 4285
RSK	7004	1040	26	2	Kenya/ E. Africa?	?	J3E-u		Kiswahili/vernacular msg net
RSK	7050	v.t.	2	2	Kenya?	?	PSK	2750	STANAG 4285
RSK	7075	1124	22	2	E. Africa?	?	J3E-u		Kiswahili QSO
RSK	7100	v.t.	occ.	2	Kenya?	?	PSK	2750	STANAG 4285
RSK	7120	1113	12	2	S. Sudan/E. Africa?	?	J3E-u		Kiswahili/vernacular msg net
RSK	7140	v.t.	dly	2	Eritrea	VoB Eritrea 1	A3E		Commercial broadcast
RSK	7170	v.t.	occ.	2	E./ Central Africa?	?	J3E-l		Kiswahili QSO
RSK	7172	1120	22	2	E. Africa?	?	J3E-u		Kiswahili QSO
RSK	7180	v.t.	dly	2	Eritrea	VoB Eritrea 2	A3E		Commercial broadcast
RSK	7185	v.t.	nr. dly.	2	E. Africa?	?	J3E-u		Kiswahili/vernacular QSO

Soc	kHz	UTC	dd	mm	ITU	Identity	MODE	Shift	Details
RSK	14118	1130	4	2	Indian Ocean?	?	J3E-u		Indo-vernacular msg net
RSK	14120	v.t.	8	2	Russia	?	FMOP-OTHR		Russian 'kontayner' 40sps
RSK	14200	1310	5	2	?	?	J3E-u		Vernacular QSO

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7002.25	1315	13	2		UiCarr	N0N			
SRAL	7008.0	0645-0753/	23	2	RUS	UiPTR	F1B/N0N		250	
SRAL	7010.0	0815-1005/	20 22	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7014.0	1130-1300	2	2	RUS	UiPTR	F1B		250	
SRAL	7014.0	0745-1315	6 13	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7018.0	1300-1315/	12	2	RUS	UiPTR	F1B		250	
SRAL	7022.0	1330-1440	14	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7030.0	0845-1040/	23 28	2	RUS	UiPTR	F1B/N0N		250	
SRAL	7046.0	1215-1225/	26	2		UiPTR	F1B/N0N		200	
SRAL	7049.0	0915-0950	26	2		UiMUX	PSK2	120	2600	
SRAL	7063.0	1345-1430	26	2		UiPTR	F1B/N0N		250	
SRAL	7089.0	0830-1700/	21 22	2		UiMUX	PSK2	120	2600	
SRAL	7098.0	0850-0940/	12	2	RUS	UiPTR	F1B		250	
SRAL	7110.0	1310-1355/	20	2		UiPTR	F1B		200	
SRAL	7115.0	1030-1100	21	2		UiMUX	PSK2	120	2600	
SRAL	7116.0	1310-1400/	12	2		UiPTR	F1B		200	
SRAL	7120.0			2	SOM	R Hargeisa	A3A			Not heard
SRAL	7122.0	/1235-1240/	6	2		UiPTR	F1B		250	
SRAL	7131.0	'0915	26	2	RUS	RMP	A1A			
SRAL	7140,0	0430-0700	dly	2	ERI	VoBME	A3E			
SRAL	7140,0	1400-1835/	dly	2	ERI	VoBME	A3E			Days: 17. 22. -1920/
SRAL	7142.0	0800-1110	6	2		UiPTR	F1B/N0N		250	
SRAL	7144.0	0800-1130	12 20	2		UiMUX	PSK2	120	2600	
SRAL	7146.5	0755-1330/	7	2	RUS	8	A1A			Time stamp
SRAL	7150.0	0600-1335/	11	2		UiCarr	N0N			S9 + 30dB
SRAL	7160.0	0730-0830	19	2		UiCW	A1A			5F
SRAL	7162.0	0930-1025/	24	2	RUS	UiPTR	F1B		250	
SRAL	7167.0	1330-1415/	28	2	RUS	UiPTR	F1B		250	
SRAL	7170.0	1030-	26	2		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
		1150/								
SRAL	7171.0	1330-1340/	14	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7176.0	1330-1415/	28	2	RUS	UiPTR	F1B		250	
SRAL	7177.0	0720-0830	18	2	RUS	UiPTR	F1B		250	
SRAL	7178.5	0730-0830	19	2	RUS	MLKZ	A1A			
SRAL	7180.0	0630-0700	*	2	ERI	VoBME	A3E			Days: 20. 21. 28.
SRAL	7180.0	1500-1845/	*	2	ERI	VoBME	A3E			Days: 20. 21. 28.
SRAL	7182.0	1030-1330	21	2		UiMUX	PSK2	120	2600	
SRAL	7193.0	0800-1445/	*	2	RUS	RDL	F1B/ NON		200	Days: 1. 3. 7. 9. 20.
SRAL	7194.0	0800-0845	12	2		UiMUX	PSK2	120	2600	
SRAL	7198.0	/0610-1235	11 19	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7 MHz	1545-2345	*	2	RUS	Kontainer	FMCW			40Hz/ 16kHz
SRAL	10 MHz			2	CYP	UiOTHR	FMCW			25/50Hz, 20 kHz (WebSDR 15d)
SRAL	10 MHz	1850-2215	20	2	RUS	Kontainer	FMCW			40Hz/ 16kHz
SRAL	14 MHz	0800-0930	20	2	CHN	UiOTHR	FMCW			10Hz/ 40kHz
SRAL	14 MHz	/0525-1620/	*	2	RUS	Kontainer	FMCW			40Hz/ 16kHz, days: 7. 8. 14. 15. 16. 20. 22. - 26. (WebSDR 15d), some days 2 or 3 transmitters
SRAL	14221.0			2	KGZ	UiPTR	F1B		200	
SRAL	14240.0	'0800	6	2	RUS	UiPTR	F1B		250	
SRAL	14261.0	'0845	28	2	RUS	UiMUX	PSK2	120	2600	
SRAL	14295.0	0600-1300	dly	2	TJK	R Tojikiston	A3E			3f, chirpy carrier
SRAL	14308.0	'0635	21	2		UiPTR	F1B		500	
SRAL	14310.0	0730-0800/	27	2	CHN	R China	A3E			Same px on 13870 kHz
SRAL	18 MHz	0615-1310	*	2	CYP	UiOTHR	FMCW			25/50Hz / 20kHz, days: 2. 5. 10. 19. 20. 21. 24. 28. (WebSDR 22d)
SRAL	18 MHz	1100-1230	5	2	RUS	Kontainer	FMCW			40Hz/ 16kHz (WebSDR 1d)
SRAL	21 MHz	0915-0930	20	2	CYP	UiOTHR	FMCW			25/50Hz / 20kHz, (WebSDR 17d)
SRAL	21438.0	1045	8	2	RUS	RCV	A1A			
SRAL	24 MHz			2		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			2	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz.
SRAL	28860.0			2	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz.
SRAL	28 MHz			2	RUS	Taxi disp.	F3E			0 reports

URE – Spain – EA6AMM (Gaspar)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	3507	18:53	4	2			J3E-U			Unid people talking.
URE	5350	19:57	25	2	ESP/MM		J3E-U			Spanish fishermen. Galician language. Splattering to 5353 kHz
URE	5350	21:36	26	2	RUS		FMOP		50	Coastal radar. 43 sps. Makhachkala
URE	5355	18:35	25	2					10k	OTH Radar
URE	7032	17:52	27	02			PSK2A	12	2600	AT3004-D. Image: https://bit.ly/2ITXxqP
URE	7050	VD	VT	2	RUS/UKR					Music, agitprop

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	7057.6	07:44	4	2			PSK2A	12	2600	AT3004-D
URE	7062	17:53	27	2			PSK2A	12	2600	AT3004D
URE	7194	07:46	12	2			PSK2A	120	2600	AT3004-D
URE	10114.8	VT	VD	2	RUS		F1B	100	1k	CIS14. Moscow
URE	10115	18:33	4	1	CYP		FMCW		20k	OTH Radar from 10105 to 10125 kHz. Also on 12 Feb at 17:03 UTC. 50 sps
URE	10106.03	17:35	1	2			A1A			Continuous dah's. Long-lasting.
URE	10112	14:04	14	2			J3E-U			Numbers Station (ID E07; "English man"). Video: https://youtu.be/cgB_zrBondw
URE	10125	10:42	28	2	ESP/MM		J3E-U			Spanish fishermen. Audio: https://bit.ly/2tH7ygl
URE	10126	08:14	4	2			F1B		500	
URE	10127	09:45	2	3			J3E-U			Moroccan Pirates. Also on 5, 6, 23,24 & 26 February. About same UTC time.All morning.
URE	10130	VT	VD	2	RUS		F1B		500	Unclean. Area of Chita
URE	10143.5	07:42	5	1				600	600	DPRK600
URE	14000	11:33	7	2	RUS		FMOP		12k	OTH Radar Kontayner. Penza.
URE	14016	10:12	3	2			J3E-U			Unid people talking. Arabic dialect
URE	14116	09:27	8	2	RUS		FMOP		12k	OTH Radar Kontayner. Penza.
URE	14135	09:07	3	2			FMOP		10k	OTH Radar burst from 14130 to 14140 kHz. Also 14254 center QRG
URE	14140 & 14186	09:00	23	2	RUS		FMOP		14k	OTHRadar Kontayner. 40 sps. Long-lasting. Penza
URE	14146	07:51	5	2			FMOP		10k	OTH Radar bursts from 14141 to 14151. Also 14336 center QRG
URE	14160	08:31	1	2	RUS		F1B	50	250	Moscow
URE	14186	08:28	22	2	RUS		FMOP		12k K	OTH Radar Kontayner. Penza. 40 sps
URE	14205	09:00	11	2			FMOP		10k	OTH Radar from 14200 to 14210 kHz. Also on 14140 and 14340 center QRG
URE	14216	08:10	13	2			FMOP			OTH Radar burst sequence: 14216, 14255, 14262 & 14320 kHz, center QRGs. All bursts = 10 kHz wide
URE	14221	08:38	12	2			FMOP		10k	OTH Radar bursts from 14116 to 14126 kHz. Also 14186 center QRG
URE	14235	08:31	22	2			FMOP		10k	OTH Radar bursts from 14230 to 14240 kHz
URE	14240	08:46	1	2	RUS		F1B		250	TD0A = Votkinsk area (RUS)
URE	14291 & 14297	08:45	24	2	RUS		FMOP		14	OTH Radar Kontayner. 40 sps 08:45 to 13:30 UTC. Long-lasting. Penza. Also on 25(for hours) & 26 February since early morning. Video: https://youtu.be/gC9EJNMH9MQ
URE	14312	08:50	6	2			FMOP		10K	OTH Radar bursts from 14306 to 14316
URE	14317	08:50	12	2			FMOP		10k	OTH Radar bursts sequence on 14317, 14135, 14200 14186 and 14279 kHz center QRGs. All bursts 10 kHz wide.
URE	14320	07:26	12	2			FMOP		10k	OTH Radar burts from 14315 to 14325 kHz. Also on 14095 kHz.
URE	14330	09:11	28	2			FMOP		10k	OTH Radar bursts from 14325 to 14335 kHz.
URE	14322	09:09	2	2			FMOP		10k	OTH Radar bursts from 14317 to 14327 kHz. Also 14346 center QRG
URE	14330	09:36	8	2			FMOP		10k	OTH Radar bursts from 14325 to 14335 kHz
URE	14337	08:17	4	2			FMOP		10k	OTH Radar bursts from 14332 to 14342 kHz. Also 14219 center QRG
URE	18070	10:25	1	2	CYP		FMCW		20k	OTH Radar from 18068 (18060) to 18180 kHz. 50 sps
URE	18070	15:02	4	2	CYP		FMCW		20k	OTH Radar from 18050 to 18070 kHz. 50 sps

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Amateur co-primary, shared with other also primary allocated services!										
USKA	3525.0	1041	04	02			DQPSK	14x75	~6k1	LINK 11 CLEW; DSB Mode often
USKA	3527.0	2233	04	02			F1B	50	200	almost daily
USKA	3532.0	2144	13	02			DQPSK	14x75	~6k1	LINK 11 DSB or ISB Mode
USKA	3549.0 VFO USB	2234	04	02			G1D PSK8	2400	2k7	MIL 188-110A D2 mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing almost daily
USKA	3553.8	2238	04	02			G1D PSK8	2400	2k4	STANAG 4285 almost daily
USKA	3572.5	1633	22	02			F1B	50	200	CIS 50-50
USKA	3608.0	2055	07	02			F1B	50	200	often
USKA	3610.0	2051	07	02			DQPSK	14x75	~6k1	LINK 11 CLEW; DSB Mode
USKA	3707.0	0044	14	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3744.8	2238	04	02			G1D PSK8	2400	2k7	MIL 188-110A D2 mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3758.0	2059	07	02			J7D	12x120	2k7	BPSK; CIS12
USKA	5361.8 VFO USB	1606	07	02	DNK		G1D PSK8	2400	2k7	STANAG 4285; reported as Danish Navy in Aarhus: legal!
USKA	6985.0	1613	21	02			FMOP	10 sps	160k	OTHR 10 sweeps/s; long lasting 6889 - 7049 kHz wide, slightly shifting the frequency
USKA	6999.0	2110	07	02			J3E-U		2k1	unid language; partially in 40m band
USKA	7000.0	1442	20	02			NON			long lasting carrier
USKA	7000.0	1638	26	02			J3E-U			Voice, sounds spanish
USKA	7010.0	0939	04	02			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7012.0	1233	13	02			F1B	75	200	
USKA	7013.0	2121	07	02		304003	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7014.0	2103	07	02			J3E-L			unid language
USKA	7014.0	1239	13	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7020.0	1223	25	02			J3E-L			unid language (sounds asian)
USKA	7030.0	0912	28	02	RUS		F1B	75	250	TDoA: greater area of Moscow
USKA	7032.0	0804	02	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7050.0	0616	25	02			J3E-L			Voice and Music often
USKA	7055.0	1233	19	02	UKR		J3E-L			Voice and Music almost daily
USKA	7089.0	1039	02	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7098.0	0902	12	02			F1B	75	250	
USKA	7116.0	1316	12	02			F1B	75	200	
USKA	7140.0	1557	01	02	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7169.0	0754	28	02			J7D	12x120	2k7	BPSK; CIS12 (idling)
USKA	7180.0	1437	01	02	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7193.0	1107	01	02	RUS	RDL	F1B	36 + 50	200	CIS 36-50 often
USKA	7193.0	1449	20	02	RUS	RDL	F1A		200	CIS 36-50
USKA	7197.0	1950	01	02	TUR	301013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7198.0	1239	02	02			J7D	12x120	2k7	BPSK; CIS12 often
USKA	10130.0	0821	28	02			F1B	50	500	strong (legal) almost daily
USKA	14001.8	1524	01	02			PSK8	2400	2k4	STANAG 4285
USKA	14020.0	0902	21	02			J3E-U		appx 2k7	Voice, Music
USKA	14098.0	0911	20	02			FMOP	10 sps	40k	OTHR; (long lasting)
USKA	14100.0	1104	01	02			FMOP	40 sps	appx 14k	OTHR; (long lasting)
USKA	14117.5	1347	08	02			FMOP	40 sps	appx 14k	OTHR; (long lasting)
USKA	14136.0	0906	12	02	RUS		FMOP	50 sps	10k	OTHR; Bursts; BD 3s
USKA	14186.0	1542	21	02			FMOP	40 sps	appx 14k	OTHR; (long lasting)
USKA	14186.0	1002	25	02			FMOP	50 sps	appx 12k	OTHR; (long lasting)
USKA	14191.0	0924	12	02	RUS		FMOP	50 sps	10k	OTHR; Bursts; BD 3s

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14192.0	1229	25	02			F1B	50	200	
USKA	14204.0	1424	20	02			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	14204.0	0903	25	02			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	14225.0	0942	20	02			FMxx	66.66 sps	10k	OTHR; Bursts; BD 3.5s
USKA	14240.0	0904	01	02			F1B	75	250	
USKA	14241.0	0959	04	02	RUS		FMOP	50 sps	10k	OTHR; Bursts; BD 5s; BRI 32s
USKA	14249.0	0714	27	02			FMOP	50 sps	appx 12k	OTHR; (long lasting)
USKA	14261.0	0826	28	02			OFDM60	35.57	appx 2k8	spacing 44.45Hz; pilottone
USKA	14291.0	0912	25	02			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	14295.1	1048	20	02	TJK		A3E		appx 9k	Radio Tajik (3 rd of 4765 kHz) often
USKA	14308.0	0900	21	02	RUS		F1B	75	500	TDoA: area Moscow - Smolensk
USKA	14317.0	0907	25	02			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	18065.0	0952	19	02			FMCW	25 sps	20k	OTHR; (long lasting) partially in 17m Band!

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3527,0	2039	07	02		UiPTR	F1B		Revs
VERON	3548,0	1934	03	02	CIS	UiPTR	F1B		Revs/Ptr also 22/2 18.56 UTC
VERON	3568,0	1915	18	02		UiPTR	F1B		Ptr
VERON	3577,5	1910	06	02		UiMOD			Sounds like burst transmission
VERON	3606,0	1915	28	02		UiPTR	F1B		Revs
VERON	3608,0	2036	07	02	CIS	UiPTR	F1B		Revs/Ptr also 22/2 18.56 UTC
VERON	3608,0	2109	23	02		UiPtr	F1B	200	Idling
VERON	3743,0	1910	20	02		UiPTR	F1B		Idling
VERON	3752,0	1903	06	02		UiPTR	F1B		Fast Ptr
VERON	3792,0	1610	11	02	CIS	UiPTR	F1B		Revs/Ptr also 20/2 18.54 UTC
VERON	7015,0	1005	05	02	RUS	RIT	A1A		RLO de RIT QTC 638 34 5 1257 638 = Radioprognoz 05020 5F
VERON	7050,0	1325	23	02	UKR/RUS		J3E-L		Speech & music
VERON	7055,0	1458	02	02	UKR/RUS		J3E-L		Chaos; 2 TX same freq.
VERON	7055,0	1325	05	02	UKR/RUS		J3E-L		Shouting voices
VERON	7055,0	1431	23	02	UKR/RUS		J3E-L		Speech & music
VERON	7090,0	1600	21	02	RUS	UiMux	PSK		AT3004-D
VERON	7160,0	0747	19	02	RUS	RBL88	A1A		5F
VERON	7167,0	1311	28	02		UiPTR	F1B		Ptr
VERON	7176,0	1310	28	02		UiPTR	F1B		Ptr
VERON	10130,0	1003	01	02		UiPTR	F1B		Revs
VERON	14081,0	1016	23	02	RUS	OTHR	FMOP		radar
VERON	14085,0	1034	23	02	RUS	UiRadar	FMOP	15k	OTHR Contayner; 40sps; simultaneously also on 14142,0 kHz and 14185,0 kHz; center freqs. Dutch Telecom Authority is informed
VERON	14141,0	1017	23	02	RUS	OTHR	FMOP		radar, long period
VERON	14158,0	1200	20	02		OTHR	FMOP		radar,
VERON	14185,0	1551	21	02	RUS	OTHR	FMOP		radar 20 KHz wide
VERON	14185,0	1400	22	02	RUS	OTHR	FMOP		radar, wide, long period
VERON	14186,0	1117	23	02	RUS	OTHR	FMOP		radar,
VERON	14280,0	1010	06	02	RUS	UiVFT	J3E-1		7..9 463 5 31467 5F Russian language
VERON	14290,0	0852	26	02	RUS	OTHR	FMOP		radar, 14280-14300 KHz
VERON	14291,0	1022	25	02	RUS	OTHR	FMOP		radar, Contayner

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14292,0	1109	24	02		UiRadar	FMOP	15k	OTHR Contayner; 40 sps; center freq.
VERON	14308,0	1037	21	02	RUS	UiPtr	F1B	500	Ptr, till 15.47 long period
VERON	18069,0	1035	19	02	RUS	OTHR	FMOP		radar, wide, long period

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German BNetzA Konstanz

All our friends and contributors worldwide!

Many thanks for your interest!

compiled and published by DK2OM - March 2019