

Part 1: News and Infos

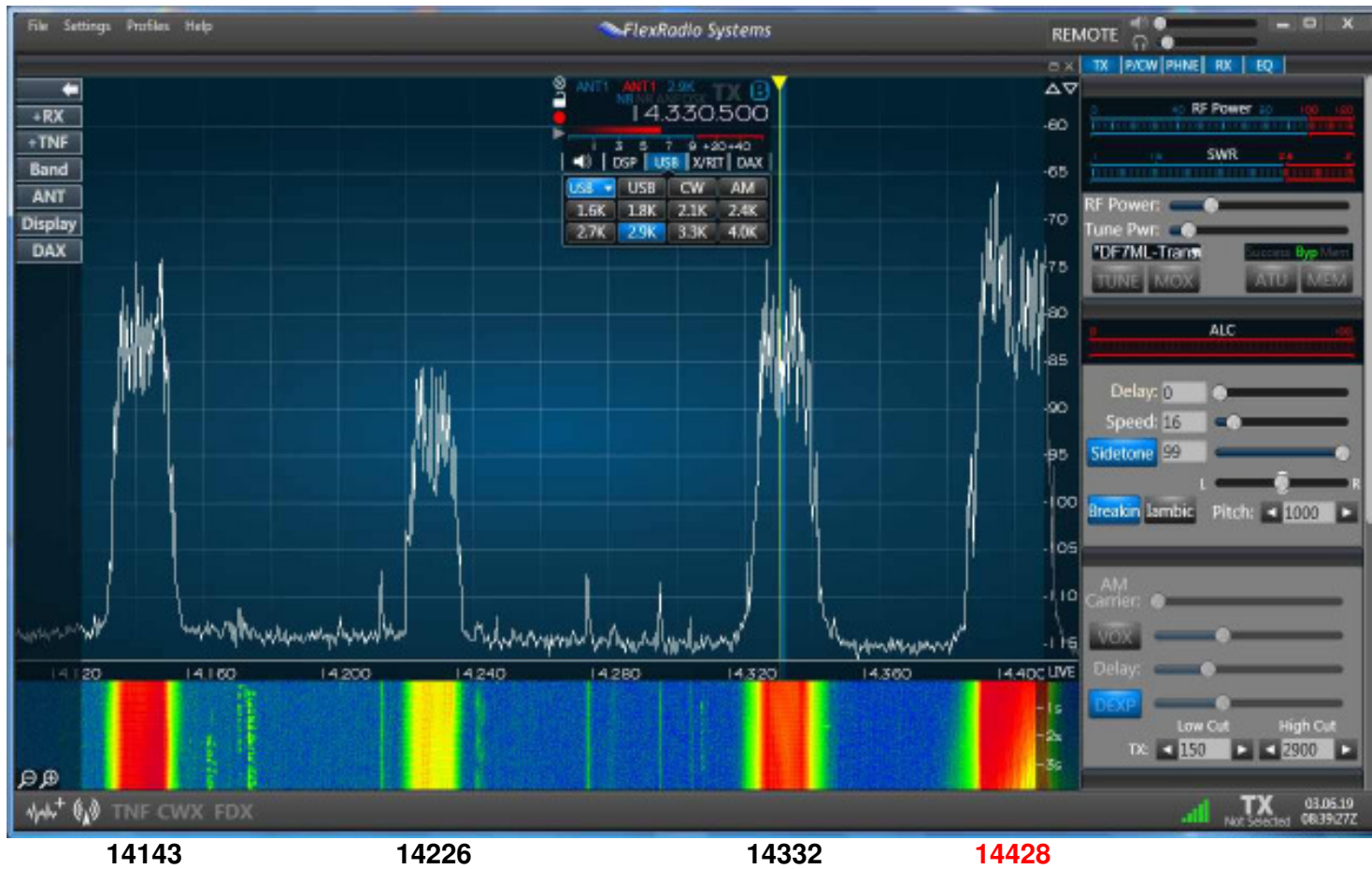
1. Russian OTH radar new “Contayner” on 14 MHz

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

Location: North of Penza

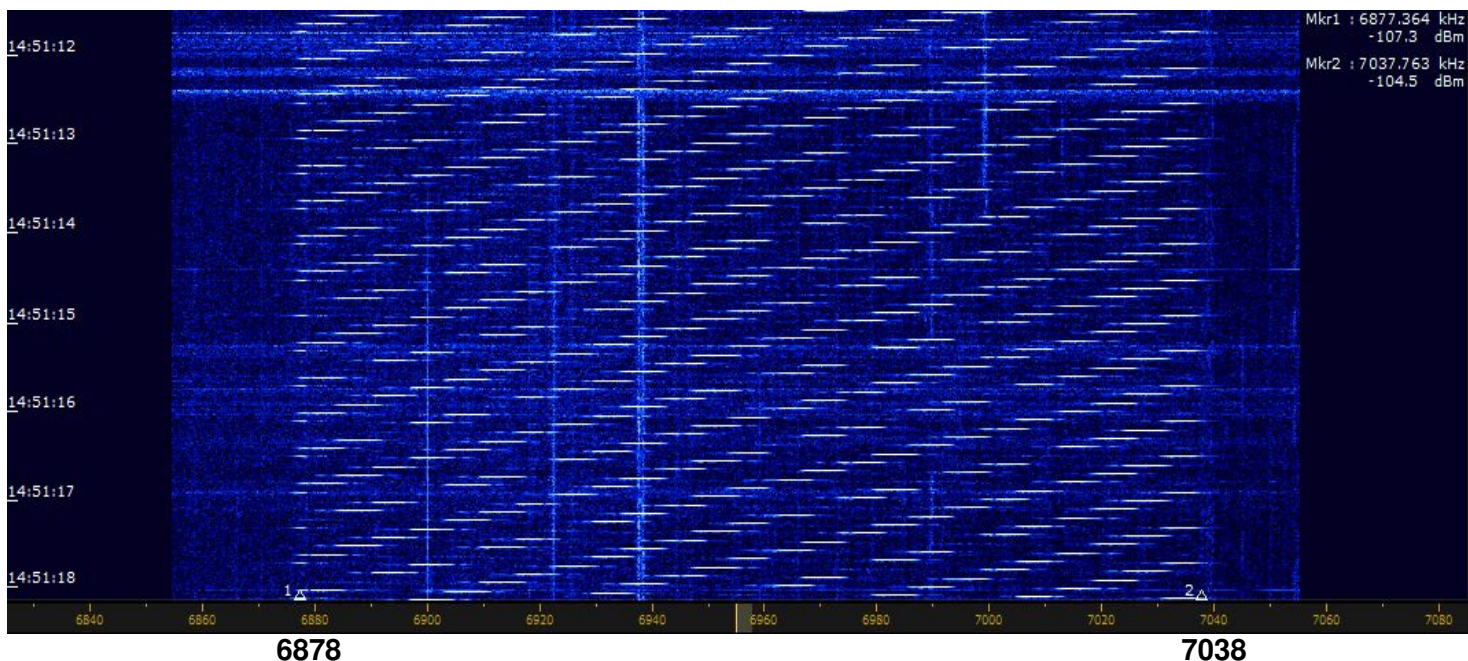
The German PTT filed an official complaint, the Dutch PTT and OFCOM were informed.

Four systems at the same time on 06 March – screenshot by DF7ML

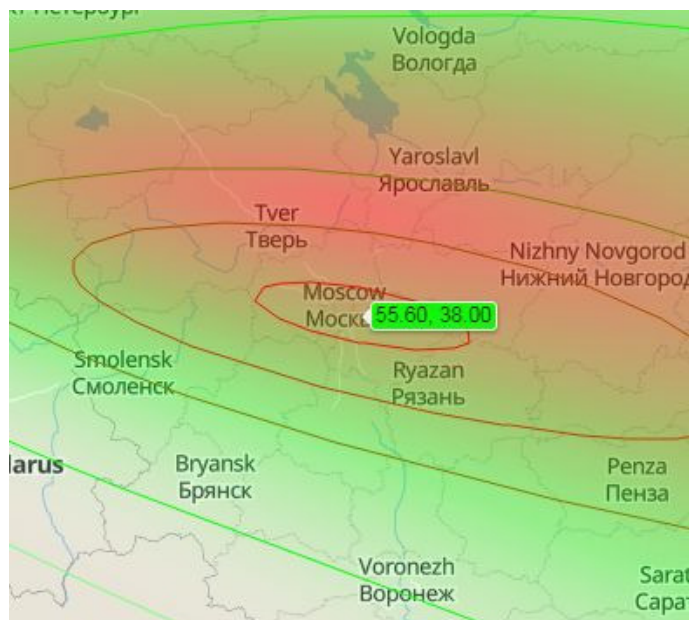


2. Chinese wideband OTH radar on 40 m

Chinese wideband OTH radars were often active on 40 m with 10 or 20 sps and 160 Khz wide (jumping) and often in the evenings. Screenshot: 28 March 2019



3. TDoA bearings



Russian OFDM 60 on 14259.0 kHz RF – 26 March



Chinese OTH radar "foghorn" - 14339 kHz – 25 March

4. Russian coastal radar "Sunflower" (Podsolnukh) again on 5 MHz

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

5. Russian AT3004D on 7200 kHz

The Russian MIL system AT3004D (7198.7 – 7201.3 kHz) transmitted on 06 and 07 March. Parameters: 12 x 120 Bd BPSK – pilot tone on 3300 Hz AF – location: Kaliningrad

6. 10127.0 USB – Moroccan pirates

Moroccan pirates abused again 10127.0 kHz on USB in the evenings.

7. 5350.0 USB – Spanish fishery

Spanish fishermen were on air with illegal traffic on 5350.0 kHz on USB. This range is not assigned to maritime traffic! The signals were splattering up to 5352.4 kHz.

8. 7137.0 LSB – ALE from Taiwan

ALE (MIL-188141A) signals were audible in Europe every evening on LSB. Transmissions by the Taiwanese navy since several years.

9. Mysterious CW on 14100 kHz

We found mysterious CW transmissions on 14100 kHz daily at 1658 – 1710 utc, only a loop with "051". Bearings: area of Ternant in France.

10. Stanag-4285 on 7100.0 kHz

We found a Stanag-4285 signal on 7100.0 kHz RF every evening. Parameters: PSK8A, 2400 Bd, 2400 Hz shift 600 bps long - location probably Ascension Island (DF results)

11. Stanag-4285 on 3580.0 kHz

A Stanag-4285 signal appeared on 3580.0 kHz RF often in the evenings. Location: Ankara, Turkey
Please observe: The 80 m-band is a shared band!

12. 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)

13. Homepage IARU Region 1

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

Intruderlogger Region 1

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

ITU-Monitoring Reports

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

Part 2: Detailed reports of the national Co-ordinators

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

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	2110	25	03	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad
DK2OM	1855,0	2100	16	03	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1925,0	2100	16	03	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	03	G	no ITU	FSK8	125	1750	ALE – British MIL Tascomm – shared band - legal!
DK2OM	3505,0 RF	2000	12	03	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3518,0	1940	31	03	UKR		F1B	100	250	
DK2OM	3525,0 RF	2025	25	03	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	dly	03	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	03	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	---	--	03	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3545,0 RF	2035	18	03			PSK8A	2400	2400	Stanag-4285
DK2OM	3550,0	0630	dly	03	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,7	---	--	03	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3553,8	ady	dly	03	TUR		PSK8A	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3580,0 RF	2009	17	03	TUR		PSK8A	2400	2400	Stanag-4285 – 600 bps long - Ankara
DK2OM	3585,0	ady	dly	03	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3586,0	vt	dly	03	HOL		PSK2A	40	40	Amsterdam - daily
DK2OM	3594,2	---	--	03	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	03	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3622,5	ady	dly	03	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3756,0	1800	dly	03	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily
DK2OM	5315,0	1920	02	03	RUS		FMOP		60k	Russian coastal radar “Sunflower” – 43 sps – 5315 – 5375 kHz - Makhachkala
DK2OM	5315,0	1816	04	03	RUS		FMOP		65k	Russian coastal radar “Sunflower” – 43 sps – 5315 – 5380 kHz - Makhachkala
DK2OM	5320,0	1520	08	03	RUS		FMOP		50k	Russian coastal radar “Sunflower” – 43 sps – 5320 – 5370 kHz - Makhachkala
DK2OM	5350,0	2040	07	03	E		USB		2400	5350.0 – 5352.4 kHz - Spanish fishery splattering up and also disturbing the Russian radar „Sunflower“ – very often in the evenings
DK2OM	5352,0	0915	15	03	UKR		F1B	50	500	UKR?
DK2OM	5355,0	1720	03	03	RUS		PSK2A	120	2600	AT3004D – St. Peterburg – primary user
DK2OM	5360,5	---	--	02	RUS		F1B	50	200	Moscow - legal
DK2OM	5361,0	1406	01	03			S57MK	100	200	Pactor 2 – mailbox – just for info
DK2OM	5361,8 RF	0820	08	03	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	5362,0	1400	01	03	RUS		PSK2A	120	2600	AT3004D – Kaliningrad - legal
DK2OM	6877,0	1450	28	03	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 6877 – 7037 kHz
DK2OM	7000,0	vt	15	03	INS		LSB USB			Indonesian pirates - singing and playing music - daily
DK2OM	7000,0	1010	14	03	E		USB			Spanish fishery
DK2OM	7000,0	0910	15	03	I		USB			Italian pirates
DK2OM	7000,0	1020	22	03	I		USB			Italian pirates
DK2OM	7000,9	---	--	03	RUS		OFDM	35.55	2760	OFDM 60 – PSK 8B – area of Smolensk
DK2OM	7001,0	---	--	03	MRC		LSB			Moroccan fishery
DK2OM	7005,0	vt	dly	03	INS		LSB			Indonesian pirates
DK2OM	7008,0	vt	02	03	RUS		FMOP		103k	coastal radar „Sunflower“ – 43 sps – 6905 – 7008 kHz – E. of Vladivostok
DK2OM	7010,0	vt	dly	03	INS		LSB			Indonesian pirates
DK2OM	7015,0	vt	dly	03	INS		LSB			Indonesian pirates – male and female voices
DK2OM	7020,0	vt	vd	03	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7020,0	1633	07	03	CHN		FMOP		160k	Chinese wideband OTH radar - 10 sps – 6860 – 7020 kHz
DK2OM	7025,0	vt	dly	03	INS		LSB			Indonesian pirates singing
DK2OM	7026,0	1454	26	03	RUS		PSK2A	120	2600	AT3004D – area of Volgodonsk
DK2OM	7035,0	vt	dly	03	INS		LSB			Indonesian pirates singing
DK2OM	7039,4	2030	07	03	RUS	M	A1A			Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily
DK2OM	7050,0	vt	dly	03	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7055,0	vt	dly	03	UKR		LSB			music and Russian voices
DK2OM	7070,0	---	--	03	GEO		FSK8	125	1750	ALE, „20001“ „10003“ „2201“ „2203“ „686“ „288“ „220“ „571“
DK2OM	7088,8	---	--	03	S	SLOFRO	A1A			7088.820 kHz - cw-trainee, Sweden - SLOFRO - just for info!
DK2OM	7089,8	---	--	03	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7100,0 RF	2336	28	03	G		PSK8A	2400	2400	Stanag-4285 – Ascension Island
DK2OM	7104,8	1738	13	03	AUS		F1B	100	170	Codan-Selcall - „0023“ „1001“

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7108,0	vt	20	03	CHN		PSK4A	60	2350	burst system "PRC-30" – 30 tones – 450 Hz pilot tone
DK2OM	7110,8	1741	13	03	AUS		F1B	100	170	Codan-Selcall – „906“ „2222“ „0535“ „0543“
DK2OM	7112,0 LSB	vt	23	03	CHN		PSK4A	60	2350	burst system "PRC-30" – 30 tones – 450 Hz pilot tone
DK2OM	7113,8	1730	13	03	AUS		F1B	100	170	Codan-Selcall – „3333“ „2319“ „2173“
DK2OM	7120,0	---	--	03	SOM		A3E		9k	Radio Hargeisa – Somaliland
DK2OM	7127,0	1510	13	03	RUS		unid		2800	unid broken system north of Rostov na Donu
DK2OM	7137,0	vt	dly	03	TWN		FSK8 LSB	125	1750	ALE, MIL-188-141A, "FBABA" "FWKMB" "FXIBY" "FCPSL" "FHKHD" "FVIKE" "FHVWY" "FCUGP" "FDRRK" "FWIML" "FBQCY" "FCEAX" Taiwanese navy
DK2OM	7140,0	1827	dly	03	ERI		A3E		9k	7140.024 kHz - Radio Eritrea
DK2OM	7143,8	1950	28	03	AUS		F1B	100	170	Codan-Selcall – idents: „8888“ „7974“ „3105“
DK2OM	7161,8	1800	13	03	AUS		F1B	100	170	Codan-Selcall – „2222“ „6900“ „0022“
DK2OM	7172,0	1930	21	03	CHN		FMOP		10k 5k	Chinese OTH radar – 67 sps and 63 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	7180,0	1526	dly	02	ERI		A3E		9k	7180.022 kHz - Radio Eritrea
DK2OM	7183,0	1654	28	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	7193,0	---	--	03	RUS	RDL	F1B	50	200	CIS36-50 - Kaliningrad
DK2OM	7197,0	vt	dly	03	TUR		FSK8	125	1750	ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense
DK2OM	7200,0	---	--	03	MMR		A3E		9k	Myanmar Radio
DK2OM	7200,0	1504	06	03	RUS		PSK2A	120	2600	AT3004D – 7198.7 – 7201.3 kHz – Kaliningrad – also 07.03. at 1350 utc
DK2OM	7201,0	1509	15	02	RUS		PSK2A	120	2600	AT3004D – modem idle – 7199.7 – 7202.3 kHz - Moscow
DK2OM	10034,0	0904	31	03	CHN		FMOP		160k	Chinese wideband OTH radar – 20 sps – 10034 – 10194 kHz
DK2OM	10100,8	ady	dly	03	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10115,0	1527	30	03	CYP		FMCW		20k	UK OTH radar Cyprus – 50 sps
DK2OM	10127,0	1955	30	03	MRC		USB			pirate net in Arabic voice - often and long lasting
DK2OM	10130,0	1035	01	03	RUS		F1B	50	500	area of Chita – daily, all day
DK2OM	10130,0	vt	vd	03			USB			French amateurs not respecting bandplans
DK2OM	10144,0	ady	dly	03	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	14000,0	1110	25	03	FEa		USB			Far East pirates – east of Indonesia - daily
DK2OM	14000,0	---	--	03	NW Af		USB			pirates in Arabic voice - southwest
DK2OM	14050,0	0905	13	03	CHN		FMOP		10k	Chinese OTH radar – 2.5 sec bursts - 50 sps – jumping
DK2OM	14050,0	0920	23	03	RUS		F1B	75	250	area of Perm
DK2OM	14095,0	0916	30	03	CHN		FMOP		10k	Chinese OTH radar – 3.8 sec bursts - 67 sps – „foghorn“ jumping
DK2OM	14100,0	1658	21	03	F		A1A			„051“ loop – daily 1658 – 1710 utc – area of Ternant
DK2OM	14108,0	1028	13	03	CHN		FMOP			Chinese OTH radar – 6 sec bursts - 42 sps – jumping

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14120,0	0852	05	03	CHN		FMOP		40k	Chinese OTH radar – 10 sps
DK2OM	14143,0	0845	06	03	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – 14143 – 14229 – 14333 – 14437 kHz at the same time
DK2OM	14145,0	0833	16	03	FEa		FMOP		10k	Far East OTH radar – 30 sps
DK2OM	14162,0	0908	27	03	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14182,0	0826	21	03	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14185,0	1004	09	03	CHN		FMOP		10k	Chinese OTH radar – 2 sec bursts - 66 sps – „foghorn“ jumping
DK2OM	14192,0	vt	vd	03	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14214,0	1006	29	03	CHN		FMOP		10k	Chinese OTH radar – 5 sec bursts – 50 sps – jumping
DK2OM	14216,0	0938	27	03	CHN		FMOP		10k	Chinese OTH radar – 2.5 sec bursts – 50 sps – jumping
DK2OM	14220,0	0859	08	03	CHN		FMOP		40k	Chinese OTH radar – 10 sps – area of Xinxiang – long lasting
DK2OM	14221,0	0520	dly	03	KGZ		F1B	50	200	Bishkek – mostly idling - daily various times
DK2OM	14222,0	1006	09	03	CHN		FMOP		10k	Chinese OTH radar – 2 sec bursts - 67 sps – „foghorn“ jumping
DK2OM	14232,0	1029	24	03	CHN		FMOP		40k	Chinese OTH radar – 10 sps – 14212 – 14252 kHz - Xinxiang
DK2OM	14233,0	1011	09	03	CHN		FMOP		10k	Chinese OTH radar – 2.5 sec bursts - 50 sps – jumping
DK2OM	14250,0	0900	01	03	CHN		FMOP		40k	Chinese OTH radar – 10 sps
DK2OM	14259,0 RF	1000	26	03	RUS		OFDM	29.63	2760	OFDM60 – PSK4A - Moscow
DK2OM	14261,0	1005	03	03	CHN		FMOP		10k	Chinese OTH radar – 42 sps - 12 sec bursts - jumping
DK2OM	14265,0	1320	23	03	RUS		PSK2A	120	2600	AT3004D – Moscow
DK2OM	14275,0	1012	09	03	CHN		FMOP		10k	Chinese OTH radar – 2 sec bursts - 67 sps – „foghorn“ jumping
DK2OM	14280,0	---	--	03	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14295,2	ady	dly	03	TJK		A3E/BC		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14300,0	0910	12	03	CHN		FMOP		40k	Chinese OTH radar – 10 sps – 14300 – 14340 kHz
DK2OM	14304,0	0826	21	03	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14312,0	1050	04	03	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14321,0	1009	09	03	CHN		FMOP		10k	Chinese OTH radar – 2 sec bursts - 66 sps – „foghorn“ jumping
DK2OM	14326,0	1015	22	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14332,0	0855	05	03	RUS		FMOP		14k	OTH radar Contayner - 40 sps – north of Penza
DK2OM	14332,0	1004	23	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14335,0	0852	16	03	CHN		FMOP		10k	Chinese OTH radar – 5 sec bursts - 50 sps – jumping
DK2OM	14339,0	1048	25	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14343,0	0946	27	03	CHN		FMOP		10k	Chinese OTH radar – 2.5 sec

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										bursts – 50 sps – jumping
DK2OM	14348,5	vt	dly	03	THA	HS0ZEA	A1A			HS0ZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!
DK2OM	14350,0	1018	22	03	CHN		FMOP		10k	Chinese OTH radar – 83 sps – 3 sec bursts - jumping
DK2OM	18069,0	0850	09	03	CYP		FMOP		20k	UK OTH radar Cyprus – 25 sps – 18059 – 18079 kHz - long lasting
DK2OM	18070,0	1104	17	03	CYP		FMOP		20k	UK OTH radar Cyprus – 50 sps – 18060 – 18080 kHz
DK2OM	18080,0	---	--	03	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18107,0	---	--	03	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18150,0	---	--	03	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	03	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21145,0	vt	dly	03	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	03	RUS	RCV	A1A			RKZ – RJV de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	---	--	03	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	03	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	---	--	03	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	---	--	03	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	14135,0 14295,0	1050	28	03	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14135 – 14295 kHz
DK2OM	29685,0	---	--	03	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	03	I		VFT		1600	Italian MIL – Brescia - daily

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1812	0015	30	03	RUS		USB/LSB	Russian navy from Kaliningrad. Medium strength signal. Heard most nights.
IRTS	1896.5	1950	29	03	D		PSK8	German navy. Huge signal. Back after a long absence. All hours of darkness every single day. The frequency is unusable for any HAM traffic.
IRTS	3520	1250	28	03	F or MM		USB	2 French fishermen.
IRTS	3534	0050	05	03	S		USB	2 male voices chatting in Swedish. Good signals. No call signs given. Ends at 0104z.
IRTS	3550	0820	15	03	F		AM	French HAMs violating band plan on a daily basis.
IRTS	3595	1735	21	03	E or MM		USB	2 Spanish fishermen. Strong signals.
IRTS	3655	1955	10	03	F or		USB	Group of French fishermen. Loud.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
		to 2010			MM			
IRTS	3740	2020	19	03			LSB	Somebody transmits loud pop music.
IRTS	3756	2330	05	03	RUS		USB	“The Pip”. Daily all hours of darkness. Huge signal.
IRTS	3780	1855	22	03			LSB	Somebody transmits pop music. Loud.
IRTS	5262.5	1310	25	03	F or MM		USB	2 French fishermen. Huge signals. One of them has very bad audio. Splattering up to 5298.5 KHz- another UK/EI SSB spot frequency messed up. At the same time there are two more groups of French fishermen active on 5310 and 5416 KHz. French fishermen seem to take over the complete 5 MHz band.
IRTS	5314	1735	08	03	RUS		FMOP	Radar from 5314 to 5370 KHz. Almost daily late afternoon, all evening and night. Ruins to new 5 MHz allocation completely.
IRTS	5330	2005	27	03	RUS/ CHN			Radar from Russia and China. Audible most evenings, nights and early mornings. The new 5 MHz allocation is most days unusable during those hours.
IRTS	5354	1140	24	03	E or MM		USB	2 Spanish fishermen. Huge signals.
IRTS	5400	1150	08	03	F or MM		USB	French fishermen. Strong. Also heard 11.3 at 1425z.15.3 at 1100z. 17th at 0830z. 18.3. at 0855z. 19.3. at 0945z.20th at 1630z.25 th at 1124z.26 th at 1100z.28 th at 1230z.29 th at various times between 1000 and 1400z. The fishermen are causing huge problems for any UK/EI SSB traffic on 5398.5 KHz on a nearly daily basis throughout the day. Many times HAMs have to change to another channel because the QRM is so strong. QSOs become impossible.
IRTS	5398.5	1520	14	03			USB	DQRM against a SOTA activation. A carrier is sent out non-stop. No more traffic is possible and the SOTA activator has to change frequency. SSB spot frequency in EI and UK.
IRTS	5405	2215	05	03	E or MM		USB	2 Spanish fishermen. Weak signals. Irish/UK/US CW spot frequency. Also heard on 20th at 0030z.
IRTS	7050	1250	08	03	RUS/ UKR		LSB	Russian-Ukrainian radio war with plenty of propaganda and music. Nearly daily all day and evening. Huge signal.
IRTS	7055	1635	03	03	RUS/ UKR		LSB	Ukrainian-Russian radio war. Huge signal. Propaganda and music. Nearly daily all month during daylight hours.
IRTS	7140	0435	19	03	ERI		AM	Radio Eritrea. Medium signal. Heard several days during the month.
IRTS	7145	1135	13	03				Strong digital signal.
IRTS	7180	1655	18	03	ERI		AM	Radio Eritrea. Weak signal. Heard several times during the month.
IRTS	10125	1300	01	03	E or MM		USB	2 Spanish fishermen. Very strong signals.
IRTS	10127	1205	07	03	MRC or MM		USB	Moroccan fishermen. Also heard 11.3 at 0745z.13.3 at 1125z. Also on 31 st at 1030z.
IRTS	10145.5	0925	06	03	F		USB	A French station calls in SSB with full call sign. He calls persistently “à tous” but gets no answer. He stops calling at 1008z.
IRTS	14100	1305	25	03	RUS/ UKR		LSB	2 nd harmonic of the propaganda war on 7050 KHz. Medium strength signal. Shouting “Putin huilo”.
IRTS	14110	1205	26	03	RUS/ UKR		LSB	2 nd harmonic of the Russian-Ukrainian propaganda war on 7055 KHz.
IRTS	14130	0945	06	03	RUS		FMOP	Radar from 14130 to 14150 KHz. Huge signals.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
								Part of the spectrum is unusable. Nearly daily all morning and early afternoon. No radar on Sundays.
IRTS	14192	1210	07	03	RUS		F1B	Russian navy from Kaliningrad. Daily all morning and early afternoon. Medium signal.
IRTS	14219	0935	06	03	RUS		FMOP	Radar from 14219 to 14236 KHz. Huge signals. Part of the spectrum not usable. Daily all morning and early afternoon. Seems to be off on Sundays only.
IRTS	14245	1355	11	03			USB	A male voice imitating a Chinese person keeps trying to interfere with a QSO between two HAMs by imitating animal sounds. Persistent for 15 minutes.
IRTS	14260	1100	26	03				Huge digital signal.
IRTS	14289	0920	21	03	RUS		FMOP	Radar from 14289 to 14313 KHz. Coming in with a huge signal.
IRTS	14295	0935	25	03	TJK		AM	Radio Tajikistan, 3rd harmonic. Almost daily in the mornings.
IRTS	14308	1015	23	03	CHN		FMOP	Radar-Chinese Foghorn. Medium signal.
IRTS	14315	0940	06	03	RUS		FMOP	Radar from 14315 to 14342 KHz. Huge signals. Part of the spectrum is unusable. Daily all morning and early afternoon. No radar on Sundays.
IRTS	21320	1245	08	03				Radar from 21230 to 21339 KHz.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3522,5	2017	7	3			A1A		"UAOC (3) de 7ZOE (2) QTC"
MRASZ	3524,0	1926	19	3			A3E		unidentified
MRASZ	3526,2	2029	7	3			A1A		"V" s tring
MRASZ	3527,0	2005	7	3			F1B	200	
MRASZ	3536,0	1712	7	3			A1A		"LDGWI ZANDJ AQIID"
MRASZ	3548,0	1720	4	3			F1B	200	hrd on: 6, 9
MRASZ	3572,5	1839	6	3			F1B	200	hrd: on: 9, 11, 19
MRASZ	3598,0	1917	6	3			A1A		"X3FH (3) de 4TJA (2) K" 5f
MRASZ	3600,0	1912	6	3			LSB		chaos, lot of stn's
MRASZ	3600,0	1722	7	3			LSB		russian language, HAM's
MRASZ	3600,0	1835	7	3			A3E		german, dutch HAM's
MRASZ	3608,0	2003	7	3			F1B	200	
MRASZ	3633,0	1735	11	3			PSK2		AT3004D
MRASZ	3707,0	1619	2	3			PSK2		AT3004D; hrd on: 4,6,7,9,11
MRASZ	3745,5	1841	6	3			F1B	200	
MRASZ	3768,0	1913	23	3			PSK2		AT3004D
MRASZ	3768,0	0549	26	3			PSK2		AT3004D
MRASZ	3774,0	1918	19	3			PSK2		AT3004D
MRASZ	3797,0	1918	19	3			A1A		"DO 1700 PLAWANIE WREMENNO"
MRASZ	7026,0	0806	28	3			PSK2		AT3004D
MRASZ	7035,0	0711	26	3			PSK2		AT3004D
MRASZ	7046,0	0823	2	3			F1B	200	
MRASZ	7050,0	0821	2	3			LSB		music + chaos; hrd: 9,15,19,24,26,30
MRASZ	7051,0	0846	24	3			F1B	200	
MRASZ	7055,0	0822	2	3			LSB		music + chaos, hrd: 9,14,15,24,26,28,29
MRASZ	7057,5	0824	2	3			OTHR		wide is 1000 Hz
MRASZ	7096,0	0805	28	3			PSK2		AT3004D
MRASZ	7140,0	1616	2	3	ERI		A3E		Radio Eritrea, hrd: on: 3, 4, 7, 11, 18
MRASZ	7142,0	0914	14	3			F1B	250	
MRASZ	7142,0	0950	26	3			F1B	250	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	7180,0	1616	2	3	ERI		A3E		Radio Eritrea, hrd: on: 3, 4, 7, 11, 18
MRASZ	7195,0	0842	24	3			A1A		quick dotter
MRASZ	7197,0	0748	29	3			PSK2		AT3004D
MRASZ	10100,8	1024	9	3			F1B	450	
MRASZ	10112,0	1428	14	3			USB		english man, 5f
MRASZ	10114,7	0752	29	3			F1B	1000	
MRASZ	10130,0	0826	2	3			F1B	500	hrd on: 9,14,15
MRASZ	14138,0	0839	15	3			OTHR		14120-14156 Hz; 35 Hz?
MRASZ	14140,0	0923	14	3			OTHR		14120-14160 kHz; 35 Hz?
MRASZ	14140,0	0801	28	3			OTHR		abt 33 Hz
MRASZ	14160,0	0840	15	3			A1A		"QJG K" R K"
MRASZ	14160,0	0840	15	3			F1B	250	
MRASZ	14220,0	0841	15	3			OTHR		14200-14240 kHz; 35 Hz?
MRASZ	14226,0	0923	14	3			OTHR		14203-14248 kHz; 35 Hz?
MRASZ	14261,0	0953	26	3			PSK2?		noise, very similar to PSK2
MRASZ	14261,0	0800	28	3			PSK2?		
MRASZ	14295,0	0927	14	3			A3E		
MRASZ	14332,0	0843	15	3			OTHR		14320-14344 kHz; 35 Hz?
MRASZ	14337,0	0927	14	3			OTHR		14319-14355 kHz 35 Hz?

OEVSV – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh /Bw	DETAILS
R.E.F.									March 2019
F5MIU	14000	0910	26	03			CW		CW beacon on NCDXF freq S5 bearing mostly west
F5MIU	14119	0800	5	03			fmcw	40kHz	OTH Radar 10 sps ,S7
F5MIU	14140	0832	6	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+20
F5MIU	14140	0843	12	03			fmcw	15kHz	OTH Radar pulsed 25ms S8
F5MIU	14140	0905	13	03			fmcw	15kHz	OTH Radar pulsed 25ms S6
F5MIU	14140	0850	15	03			fmcw	15kHz	OTH Radar pulsed 25ms S7
F5MIU	14140	0840	20	03			fmcw	15kHz	OTH Radar pulsed 25ms S9+10
F5MIU	14142	0855	22	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+15
F5MIU	14142	0905	25	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+
F5MIU	14142	0825	28	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+10
F5MIU	14145	0925	11	03			fmcw	15kHz	OTH Radar pulsed 25ms S8
F5MIU	14220	0850	15	03			fmcw	40kHz	OTH Radar pulsed 100ms S7
F5MIU	14225	0843	12	03			fmcw	15kHz	OTH Radar pulsed 25ms S7
F5MIU	14225	0905	13	03			fmcw	15kHz	OTH Radar pulsed 25ms S6
F5MIU	14225	0850	15	03			fmcw	15kHz	OTH Radar pulsed 25ms S7
F5MIU	14225	0855	16	03			fmcw	15kHz	OTH Radar pulsed 25ms S9
F5MIU	14228	0925	11	03			fmcw	15kHz	OTH Radar pulsed 25ms S7
F5MIU	14230	0832	6	03			fmcw	20kHz	OTH Radar pulsed 25ms S9
F5MIU	14230	0925	11	03			fmcw	15kHz	OTH Radar pulsed 25ms S7
F5MIU	14242	0843	6	03			PSK	2.6kHz	Data
F5MIU	14300	0910	21	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+15
F5MIU	14315	0905	25	03			fmcw	40kHz	OTH Radar pulsed 100ms S8
F5MIU	14330	0805	5	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+10
F5MIU	14330	0855	22	03			fmcw	40kHz	OTH Radar pulsed 100ms S9+
F5MIU	14332	0832	6	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+
F5MIU	14335	0843	12	03			fmcw	15kHz	OTH Radar pulsed 25ms S7
F5MIU	14335	0905	13	03			fmcw	15kHz	OTH Radar pulsed 25ms S8
F5MIU	14335	0850	15	03			fmcw	15kHz	OTH Radar pulsed 25ms S9
F5MIU	14335	0840	20	03			fmcw	15kHz	OTH Radar pulsed 25ms S9+15
F5MIU	14335	0850	26	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+
F5MIU	14335	0825	28	03			fmcw	20kHz	OTH Radar pulsed 25ms S9+20

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3503,5	02.26	27	03	G	XSS	MFSK8	2400		Mil ALE UK - DHFCS Forest Moor, FYI
REP	3505	07.10	10	03	E		J3E-U			Spanish fishery
REP	3508,5	05.09	27	03			PSK8A	2400		Stanag 4285 unid, burst mode (sellcal ?) FYI
REP	3509,75	05.10	27	03			J3E-U			Unid language fishery comms
REP	3512	03.39	27	03			J3E-U			Unid voice, encrypted
REP	3520	02.11	27	03	F		J3E-U			French fishery, daily
REP	3532	02.00	27	03	F		PSK4			Link11 CLEW, DSB Brest – France - FYI
REP	3545	02.24	27	03			PSK4	2400		Racal/Thales Panther modem 2400bd sync train
REP	3549,25	02.01	27	03	RUS		PSK2A	120	2600	AT3004D modem, Sevastopol, Russia. Just FYI
REP	3550	07.00	03	03	POR		J3E-U			Portuguese fishery
REP	3550	05.48	27	03	ALG	RK31, NX30	MFSK8	2400		Mil ALE net Algerian Military
REP	3550	06.09	27	03	F		A3E			French amateurs ignoring IARU band plan
REP	3552	02.05	27	03			PSK8A			STANAG 4285 600bps/L unid, FYI
REP	3560	06.45	01	03	E		J3E-U			Fishery, everyday
REP	3568	08.13	27	03			PSK8A			STANAG 4285 comms 600/L unid, FYI
REP	3570	23.01	05	03	F		J3E-U			French fishery
REP	3570	08.00	27	03	G		J3E-U			English language fishery, prob. Ireland
REP	3575	07.05	03	03	E		J3E-U			Spanish fishery, dly
REP	3579	02.01	27	03			J3E-U			Unid language fishery comms
REP	3585	08.57	11	03	P		J3E-U			Portuguese fishery
REP	3590	07.00	27	03	F		A3E			French amateurs ignoring IARU band plan
REP	3597	01.88	27	03			J3E-U			Arabic language fishery comms, unid
REP	3610	05.26	27	03	ALG	NX01, IU01	MFSK8			Mil ALE net Algerian Military
REP	3631	02.55	27	03			PSK2A			AT3004D, DSB, unid
REP	3632	08.38	27	03	MRC	2417	MFSK8			Mil ALE Moroccan Civil Protection net
REP	3640	08.37	27	03	G	XSS, XCF	MFSK8			Mil ALE UK - DHFCS Forest Moor and unid
REP	3641	08.22	18	03	E		J3E-U			Spanish fishery, Galicia dialect
REP	3720	01.38	11	03	E		J3E-U			Spanish fishery
REP	3755	21.19	17	03	RUS		A3E			Russian mil marker
REP	5352,5	19.46	11	03	RUS		FMOP	43	14k	Coastal radar “Sunflower”
REP	5353	18.40	11	03			J3E-U			Central/South american spanish lang. fishery
REP	7005	07.33	08	03	E		J3E-U			Spanish fishery
REP	7006	07.30	09	03			J3E-U			Unid arabic fishery
REP	7006	10.24	26	03			PSK4			Racal/Thales Panther modem 2400bd sync train
REP	7008	09.40	09	03	RUS		FSK	75	250	CIS-50 Russian mil
REP	7010	08.47	11	03		920001				unid 9200xx series ALE network / Clover 2000
REP	7014	10.24	01	03	RUS		PSK-4			CIS-12 multiple PSK
REP	7018	17.05	19	03			J3E-U			Unid language voice comms
REP	7020	22.20	22	03	RUS	V	A1A			BEACON
REP	7023	11.23	11	03			PSK4	2400		Racal/Thales Panther modem, spread spectrum, 8x sync bursts
REP	7024	11.25	11	03			J3E-U			Unid language comms
REP	7027	08.59	26	03			PSK4			Racal/Thales Panther modem, spread spectrum, 8x sync bursts
REP	7030	20.50	11	03	B		J3E-U			Brazilian comms, unid ops

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7031	21.17	11	03		2536,1536	MFSK8			Mil ALE unid net, LQA requests, sounding calls
REP	7045	16.06	05	03		920004	MFSK8			Mil Std188-141A 92xxxx net, unid location
REP	7045	10.03	11	03			MFSK8			Mil ALE net 100x series, unid, dly
REP	7045	08.54	26	03		920004	MFSK8			Unid Mil ALE net 92xxxxx series. Also on 7010.00kHz, dly
REP	7070	08.05	10	03	MRC		FSK-8			Civil Defence
REP	7070	09.02	10	03	E		J3E-U			Spanish fishery
REP	7070	08.36	26	03			MFSK8			Mil ALE net 100x series, unid, dly
REP	7070	09.08	26	03			PSK			Unid PSK comms, unid mode
REP	7100	17.12	10	03	RUS		F1B	50	200	CIS36
REP	7120	10.35	11	03			J3E-U			Arabic/Spanish dialect comms, unid ops
REP	7125	09.57	11	03			J3E-U			Unid arabic language comms
REP	7127	10.45	10	03	RUS		PSK-4			CIS12/AT3004D Russian mil, 12x120bps + 3.3k pilot tone
REP	7140	18.45	02	03	ETH		8k00 A3EGN			Radio Eritreia
REP	10115	22.00	06	03	E		J3E-U			Spanish fishery
REP	10135	21.50	06	03	MRC		J3E-U			Moroccan fishery
REP	14142	09.01	11	03	RUS		FMOP	43	14k	OTH Radar Kontayner 40sps/14kHz Penza, RUS
REP	14162,5	11.42	27	03	RUS		FMOP	43	14k	OTH Radar Kontayner 40sps/14kHz Penza, RUS
REP	14229	09.03	11	03	RUS		FMOP	43	14k	OTH Radar Kontayner 40sps/14kHz Penza, RUS
REP	14253	08.15	18	03	RUS		FMOP	75	250	CIS36-50 encrypted FSK 75/250 Russia
REP	14300	09.30	11	03	CHN		FMOP	10	40k	Chinese OTH radar, 40kHz wide
REP	14337	09.01	11	03	RUS		FMOP	43	14k	OTH Radar Kontayner 40sps/14kHz Penza, RUS
REP	18075	16.00	09	03			FMCW	50	20k	OTH radar
REP	21000	13.00	01	03	E		J3E-U			Spanish fishery
REP	21210	13.45	01	03			FMCW			OTH radar
REP	21215	15.11	22	03	MRC		J3E-U			Fishermen
REP	28725	11.00	22	03	RUS		F3E			Taxis dispatchers

RSGB – United Kingdom – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	5355.0	1753	05	03			J7D		2K70E	For info: Primary user: USB 5353.0 / CIS-12.
RSGB	7035.0	0835	27	03			J7D		2K70E	USB 7033.0 / CIS-12
RSGB	7038.5	ady	dly	03	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7050.0	vt	vd	03			J3E			LSB Ukranian/Russian ops squabbling
RSGB	7055.0	vt	vd	03			J3E			LSB Ukranian/Russian ops squabbling
RSGB	7095.8	0829	28	03			J7D			USB 7094.0 / CIS-12. Ceased at 0832
RSGB	7140.02	vt	vd	03	ERI	VoBM1	A3E			BC
RSGB	7180.02	vt	vd	03	ERI	VoBM2	A3E			BC
RSGB	7198.0	0856 0941	29 30	03			J7D		2K70E	USB 7196.0 / CIS-12
RSGB	7200.0	1753 0857	06 07	03			J7D		2K70E	USB 7198.0 / CIS-12
RSGB	10100.8	ady	dly	03	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	14086.0	1011	25	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	14142.0	vt	06-07, 11-15, 20, 23, 25, 28	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14162.0	vt	27, 28	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14182.0	vt	20, 21	03	RUS		P0N			'Container' OTHR. 40 sps.
RSGB	14220.0	0925	08	03	CHN		P0N		40K0E	OTHR FMOP. 10 sps.
RSGB	14228.0	vt	06-07, 11-19	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14242.0	0811	06	03			J7D		2K70E	USB 14240.0 / CIS-12
RSGB	14250.0	0915	01	03	CHN		P0N		40K0E	OTHR FMOP. 10 sps. Ceased at 0930.
RSGB	14253.0	0805	04	03			F1B		250	RR 5.152?
RSGB	14261.0	0842	27	03			J7D		2K70E	USB 14259.0 / CIS-60. RR 5.152?
RSGB	14311.0	1102	04	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14303.0	vt	20-22	03	RUS		P0N			'Container' OTHR. 40 sps.
RSGB	14332.0	vt	05-07, 11-15, 20, 28-29	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14334.0	0800	26	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	14337.0	0936	06	03	RUS		P0N		14K0E	'Container' OTHR. 40 sps.
RSGB	18170.0	0840	27	03			P0N		20K0E	OTHR. 50 sps.

RSK – Kenya – 5Z4BV (Kamweti)

not available

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000.0	1350	7	3		UiCarr	N0N			
SRAL	7000.0	'0750	28	3		UiCarr	N0N			
SRAL	7015.0	1400-1530	26	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7020.0	0845-0900	14 21	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7020.0	0845-0900/	8	3		UiPTR	F1B		250	
SRAL	7026.0	1400-1615	26	3		UiMUX	PSK2	120	2600	
SRAL	7030.0	0745-0945	21 28	3	RUS	UiPTR	F1B		250	
SRAL	7033.0	0830-0840/	19	3	RUS	UiPTR	F1B		250	
SRAL	7035.0	0830-1228/	7 13 27	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7040.0	0840-0900	27	3	RUS	UiPTR	F1B/ N0N		250	
SRAL	7046.0	0750-1052/	5 13	3		UiPTR	F1B/ N0N		200	
SRAL	7085.0	'0840	14	3		UiMUX	PSK2	120	2600	
SRAL	7087.0	1230-1325/	6	3	RUS	UiPTR	F1B		200	
SRAL	7093.0	1345-1350	28	3		UiCW	A1A			5F
SRAL	7096.0	0630-0835/	28	3		UiMUX	PSK2	120	2600	
SRAL	7099.0	1640	18	3		HXRS	A1A			5F
SRAL	7099.0	'0620	14	2		UiPTR	F1B		250	
SRAL	7101.0	0745-	18	3		UiPTR	F1B/		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0815/					N0N			
SRAL	7112.0	0945-1100	7 29	3	RUS	UiPTR	F1B		250	
SRAL	7114.0	'0935	7	3		UiMUX	PSK2	120	2600	
SRAL	7122.0	/1235-1240/	6	3		UiPTR	F1B		250	
SRAL	7140.0	0430-0640	dly	3	ERI	VoBME	A3E			
SRAL	7140.0	1400-1840/	dly	3	ERI	VoBME	A3E			
SRAL	7142.0	0915-1335/	14 26	3	RUS	UiPTR	F1B		250	
SRAL	7144.0	0800-1430	*	3	RUS	UiMUX	PSK2	120	2600	Days: 13. 14. 21.
SRAL	7145.0	0840-1200	8	3	RUS	UiPTR	F1B		250	
SRAL	7150.0	0600-1335/	11	3		UiCarr	N0N			S9 + 30dB
SRAL	7160.0	0830-1320	19	3	RUS	RBL88	A1A			
SRAL	7160.0	1130-1315/	24	3		UiMUX	PSK2	120	2600	
SRAL	7162.0	0915-1050/	*	3	RUS	UiPTR	F1B		250	Days: 10. 21. 30.
SRAL	7162.0	1125-1630	20 - 31	3	RUS	9	A1A			Time stamp
SRAL	7168.0	1235	6	3	RUS	UiPTR	F1B		200	
SRAL	7171.0	1330-1345	4	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7178.5	1440	10	3		UiCW	A1A			5BL
SRAL	7179.0	0630-0645	18	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7180.0	0430-0640	dly	3	ERI	VoBME	A3E			
SRAL	7180.0	1400-1840/	dly	3	ERI	VoBME	A3E			
SRAL	7183.0	1340	6	3		UiCW	A1A			XXX msg
SRAL	7185.5	0800-1405/	*	3	UZB	V	A1A			Days: 7. - 31. key failures
SRAL	7196.0	0845-1100	10 15	3		UiPTR	F1B/ N0N		200	
SRAL	7198.0	0800-1000	29 30	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7200.0	0930-1430	6 7	3	RUS	UiMUX	PSK2	120	2600	
SRAL	10 MHz			3	CYP	UiOTHR	FMCW			25/50Hz, 20kHz (WebSDR 18d)
SRAL	14 MHz	0640-1145	*	3	CHN	UiOTHR	FMCW			10Hz/40kHz, days: 5. 7. 8. 11. 15. 19. 22. 24. 25.
SRAL	14 MHz	/0700-1400/	*	3	RUS	Kontainer	FMCW			40Hz/15kHz, days: 4. - 7. 10. - 29. (WebSDR 25d), some days 2 to 3 transmitters
SRAL	14018.3	0705-0725/	22	3		UiMUX	PSK2	120	2600	
SRAL	14160.0	1040	27	3		UiPTR	F1B		250	
SRAL	14221.0	0500-0600/	*	3	KGZ	UiPTR	F1B		200	Days: 14. 15. 27. - 31.
SRAL	14253.0	0630-1000	*	3	RUS	UiPTR	F1B		250	Days: 11. 18. 22. 25.
SRAL	14255.0	'0845	22	3		UiMUX	PSK2	120	2600	
SRAL	14262.0	'0755	28	3		UiMUX	PSK2	120	2600	
SRAL	14294.0	'0615	22	3		UiMUX	PSK2	120	2600	
SRAL	14295.0	'0625	21	3		UiMUX	PSK2	120	2600	
SRAL	14295.2	0500-1615	dly	3	TJK	R Tojikiston	A3E			3f, chirpy carrier

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	18 MHz	0630-1315	*	3	CYP	UiOTHR	FMCW			25/50Hz/20kHz, days: 7. 9. 10. 20. 22. (WebSDR 17d)
SRAL	21 MHz	1115-1130	22	3	CYP	UiOTHR	FMCW			25/50Hz/20kHz, (WebSDR 8d)
SRAL	21438.0			3	RUS	RCV	A1A			Not heard
SRAL	24 MHz			3		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			3	IRN	UiOTHR	FMCW			307 & 870Hz / 60 kHz.
SRAL	28860.0			3	IRN	UiOTHR	FMCW			150 & 313Hz / 60 kHz.
SRAL	28 MHz			3	RUS	Taxi disp.	F3E			0 reports

URE – Spain – EA6AMM (Gaspar)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	7024	11:25	11	3			J3E-U			Unid people talking
URE	7034.8	07:21	26	3			PSK2A	120	2.6 k	AT3004-D. Also on 27 Mars
URE	7040	08:50	27	3			F1B		250	
URE	7095.8	08:21	28	3			PSK2A	120	2600	AT3004-D
URE	7114	08:45	29	3			PSK2A	120	2600	AT3004-D
URE	7140	VT	VD	3	ERI		AE3			Radio Voice of the Brad Masses 1. Eritrea. Broadcasting.
URE	7142.02	07:27	26	3			F1B		200	
URE	7180	VT	VD	3	ERI		A3E			Radio Voice of the Broad Masses 2. Eritrea. Broadcasting
URE	7197.8	08:49	29	3			PSK2A	120	2600	AT3004-D
URE	10125	20:05	24	3			FMOP		10 k	OTH Radar. Also on 25 Mars
URE	10122	18:50	16	3			J3E-U			Unid people talking
URE	10127	08:35	8	3	MRC		J3E-U			Moroccan pirates. Strong signals. Communications during all morning. Also on 9, 10, 11, 12, 13, 14, 15 Mars
URE	14001.3	15:37	26	3			J3E-U			Unid people talking
URE	14050	09:20	15	3			FMOP		10 kHz	OTH Radar bursts. Also on 14137, 14266 and 14347 kHz.
URE	14120	08:21	5	3	CHN		FMOP		40 k	OTH Radar. 10sps. Long-lasting.
URE	14142	07:50	6	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. Long-lasting. Three transmissions at the same time: 14142, 14229 & 14332 Khz. Also on 7, 11, 12, 13, 14, 15 Mars
URE	14142	08:20	20	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. Long-lasting. Two transmissions at the same time: 14142 & 14332 Khz. Also on 28 Mars
URE	14142	08:22	25	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Also on 25, 26 Mars
URE	14162	07:50	27	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Also on 28 Mars.
URE	14179	08:00	11	3			FMOP		10 k	OTH Radar bursts. Burst = 4 sec. Time between bursts = 48 sec
URE	14182	08:15	21	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. Two transmissions at the same time: 14182 and 14303 kHz. Long-lasting.
URE	14184	09:03	5	3					10 k	OTH Radar bursts from 14179 to 14189 kHz. Burst = 2 sec. Space = 52 sec. Also on 14258 (4 sec / 52 sec), 14307 (5 sec / 52 sec) & 14344 kHz (2 sec / 48 sec)
URE	14218	08:04	29	03			FMOP		10 k	OTH Radar bursts. Burst = 3 sec. Space between bursts = 48 sec
URE	14220	08:01	8	3	CHN		FMOP		40k	OTH Radar. 10 sps. Long-lasting. Also on 15 Mars
URE	14229	07:50	6	3	RUS		FMOP		14K	OTH Radar Kontayner. 40 sps. Penza. Long-lasting. Three transmissions at the same time: 14229, 14142 & 14332 Khz. Also on 7, 11, 12, 13, 14, 15 Mars

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	14229	08:20	18	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. <u>Also on 18, 19 Mars</u>
URE	14232	10:30	24	3	CHN		FMOP		40 k	OTH Radar. 40 sps
URE	14237	07:52	14	3			FMOP		10 k	OTH Radar bursts. Burst = 4 sec. Time between bursts = 42 sec. <u>Also on 14229 kHz (Burst = 2 sec, Time = 42 sec)., and 14326 kHz (burst = 2 sec, time = 42 sec).</u>
URE	14242	07:50	6	3			PSK2A	120	2600	AT3004-D
URE	14250	08:50	1	3	CHN		FMOP		40 k	OTH Radar. 10 sps (14230 to 14270 kHz)
URE	14253	08:52	18	3			F1B	29.6	2760	OFDM60 – PSK4A - Moscow
URE	14260.9	08:22	27	3	RUS		OFDM			
URE	14262	08:36	12	3			PSK2A	120	2600	AT3004-D
URE	14313	08:56	4	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza
URE	14322	08:34	7	3	CHN		FMOP		40 k	OTH Radar 10 sps. <u>Also on 12 Mars</u>
URE	14321	08:55	3	3			FMOP		10k	OTH Radar bursts from 14316 to 14326 kHz. Burst = 2,5 sec. Space = 52 sec
URE	14324	08:17	29	3			FMOP		10 k	OTH Radar bursts. Burst = 3 sec. Space between bursts = 48 sec
URE	14331	07:55	26	3	CHN		FMOP		14 k	OTH Radar. 10 sps
URE	14332	08:07	5	3			FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. <u>Also on 22, 25, 26 Mars</u>
	14332	08:20	20	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. Long-lasting. <u>Two transmissions at the same time: 14142 & 14332 Khz. Also on 28 Mars</u>
URE	14332	07:50	6	3	RUS		FMOP		14 k	OTH Radar Kontayner. 40 sps. Penza. Long-lasting. <u>Three transmissions at the same time: 14332 Khz, 14142 & 14229. Also on 7, 11, 12, 13, 14, 15 Mars</u>
URE	14333	08:25	22	3	CHN		FMOP		40 k	OTH Radar. 10 sps
URE	14344	08:44	3	3			FMOP		10 k	OTH Radar bursts from 14339 to 14349 kHz.
URE	18068	09:36	12	3			FMOP		20 k	OTH Radar from 18055 to 18075 kHz
URE	18070	08:40	9	3			FMOP		20 k	OTH Radar from 18050 to 18070 kHz
URE	18070.1	08:30	25	3			F1B		200	
URE	18160	08:17	27	3			FMOP		20 k	OTH Radar from 18160 to 18180 kHz
URE	18165	08:24	9	3			FMOP		20 k	OTH Radar from 18165 to 18185 kHz

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	6940.0	1746	07	03			FMOP	10 sps	160k	OTHR 10 sweeps/s; long lasting 6860 - 7020 kHz wide, partially in 40m band
USKA	7000.0	0958	22				J3E-U		2k1	Italian
USKA	7010.0	1642	14	03			J3E-L		2k1	Voice, sounds Asian (Indonesian Village radio ?)
USKA	7012.0	0823	21	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7026.0	1316	26	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7061.0	26	03	03			PSK8A	2400	2k7	MIL 188-110B
USKA	7073.0	2251	11	03			FMOP	10 sps	160k	OTHR 10 sweeps/s; long lasting 6992 - 7152 kHz wide, partially in 40m band
USKA	7100.0 VFO USB	0957	30	03			G1D PSK8A	2400	2k7	STANAG 4285; (South Atlantic)
USKA	7114.0	0806	29	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7140.0	1646	15	03	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7144.0	0755	14	03			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7178.5	1504	19	03			A1A			no Ham

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7180.0	1743	07	03	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7198.0	0809	07	03			J7D	12x120	2k7	BPSK; CIS12 often
USKA	14008.0	1028	04	03			F1B	50	250	
USKA	14047.0	0834	14	03			FMOP	66.66 sps	10k	OTHR; Bursts, BD appx 2s
USKA	14119.0	0659	05	03			FMOP	10 sps	40k	OTHR; (long lasting)
USKA	14142.0	0953	22	03			FMOP	40 sps	appx 13k	OTHR; (long lasting) almost daily
USKA	14162.0	1154	27	03			FMOP	40 sps	appx 13k	OTHR; (long lasting)
USKA	14180.0	1225	25	03			FMOP	10 sps	appx 12k	OTHR; (long lasting)
USKA	14182.0	1235	20	03			FMOP	40 sps	appx 13k	OTHR; (long lasting)
USKA	14228.0	0910	06	03			FMOP	40 sps	appx 13k	OTHR; (long lasting) often
USKA	14242.0	0750	12	03			J7D	12x120	2k7	BPSK; CIS12
USKA	14250.0	0927	01	03			FMOP	10 sps	40k	OTHR; (long lasting)
USKA	14253.0	1401	14	03			F1B	75	250	almost daily
USKA	14255.0	0940	22	03			J7D	12x120	2k7	BPSK; CIS12
USKA	14261.0	0933	26	03			OFDM60	29.63	~ 2.667k	PSK4; spacing 44.45Hz; pilottone
USKA	14303.0	1321	20	03			FMOP	40 sps	appx 13k	OTHR; (long lasting)
USKA	14306.0	0842	18	03			J7D	12x120	2k7	BPSK; CIS12
USKA	14315.0	0705	25	03			FMOP	10 sps	40k	OTHR; (long lasting)
USKA	14322.0	0735	12	03			FMOP	10 sps	40k	OTHR; (long lasting) often
USKA	14326.0	1249	22	03			FMOP	10 sps	40k	OTHR; (long lasting)
USKA	14332.0	0906	06	03			FMOP	40 sps	appx 13k	OTHR; (long lasting) almost daily
USKA	14332.0	0829	22	03			FMOP	10 sps	40k	OTHR; (long lasting)
USKA	14333.0	1004	28	03			FMOP	40 sps	appx 13k	OTHR; (long lasting)
USKA	14334.0	0941	26	03			FMOP	40 sps	appx 13k	OTHR; (long lasting)
USKA	18060.0	1033	04	03			FMCW	50 sps	20k	OTHR (long lasting) partially in 17m Band!
USKA	18107.0	1022	01	03		RDL	F1B	36/50	200	CIS 36-50 often

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3525,0	0912	23	03	CIS	XQWG	A1A		Calls to: NZAS WPHG MJMS MVZD GNM9 D7TT Y5EL 9Q6N
VERON	3525,0	1842	05	03	CIS	L9E4	A1A		Calls to: GVZL EIPL ZJIP AXWH 1GIW ZOCR
VERON	3527,0	2138	13	03	CIS	UiPTR	F1B		Revs/Ptr also at 18/3 21.40 UTC
VERON	3544,0	1847	05	03		UiPTR	F1B		Ptr
VERON	3548,0	1905	05	03	CIS	UiPTR	F1B		Revs/Ptr
VERON	3548,0	1835	06	03	CIS	UiCW	F1A		5F
VERON	3572,5	1825	12	03	CIS	UiPTR	F1B		Revs/Ptr
VERON	3608,0	2140	13	03	CIS	UiPTR	F1B		Revs/Ptr
VERON	3741,5	1924	30	03		UiPtr	F1B	200	
VERON	3745,5	1825	06	03		UiPTR	F1B		Revs
VERON	7015,0	1001	01	03	RUS	RIT	A1A		RLO de RIT QTC 185 34 1 1157 185 = Radioprognoz 01038 5F
VERON	7036,0	1908	21	03	RUS	UiPtr	F1B		Ptr
VERON	7050,0	vt	vd	03	UKR/RUS		J3E-1		Russian speech; comments
VERON	7055,0	vt	vd	03	UKR/RUS		J3E-1		shouting comments/music; sometimes 2 TX on same freq.
VERON	7137,0	1917	13	03	RUS	UiPtr	F1B		idel and Ptr
VERON	7137,0	1931	14	03	RUS	UiPtr	F1B		Ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7160,0	0741	19	03	RUS	RBL88	A1A		RKP57 DE RBL88 ZSA? K // R K
VERON	7160,0	0742	19	03	RUS	RBL88	A1A		RKP64 DE RBL88 ZSA? K // R K
VERON	7160,0	0743	19	03	RUS	RBL88	A1A		RKP65 DE RBL88 ZSA? K // R K
VERON	10130,0	1251	26	03		UiPtr	F1B	500	
VERON	10130,0	1005	01	03		UiPTR	F1B		Revs also at 11/3 10.20 UTC
VERON	14008,0	1048	05	03	CIS	UiPTR	F1B		Revs also at 6/3 10.40 UTC
VERON	14139,0	1109	11	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14140,0	1014	12	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14140,0	1119	25	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14140,0	0901	06	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14141,0	1028	14	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14141,0	1053	15	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14160,0	1045	27	03	RUS	UiPtr	F1B	500	Ptr
VERON	14160,0	1002	27	03		UiPTR	F1B		Ptr
VERON	14165,0	1044	27	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14226,0	1138	18	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14230,0	1140	19	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14230,0	1102	06	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14240,0	1131	13	03	RUS	UiPtr	F1B		idel and Ptr
VERON	14291,0	1050	27	03	RUS	UiCW	A1A		5F-SSCIR BHJIQ MMFNK qrv K
VERON	14298,0	1345	21	03		UiRadar	FMOP	10k	OTHR; 40sps
VERON	14310,0	1035	04	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14325,0	1243	22	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14330,0	1121	11	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14330,0	1109	05	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	14330,0	0902	06	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	18060,0	1411	04	03	RUS	OTHR	FMOP		radar, 20 KHz wide
VERON	18090,0	1144	02	03	RUS	OTHR	FMOP		radar, 20 KHz wide

The monitoring team of IARU Region 1

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Many thanks for your interest!

compiled and published by DK2OM - April 2019