



INTERNATIONAL AMATEUR RADIO UNION

REGION THREE

MONITORING SYSTEM NEWS LETTER



December 2013

Peter Young VK3MV

Reports for November were received from ARSI, JARL, NZART, and the WIA.

This month there were 1027 observations of intruders made across the Region as compared to last month number of 904. Over the last couple of months there has been enhanced propagation in the higher HF bands that has seen increased numbers of intruders being reported.

NZART reports the arrival on 13996 kHz, of a OFDM -12 tone Military data system - spreading into lower 20 metre Spectrum. Also reported is the use of "man Pack" digital system on 7000 kHz spreading into 40 meters. Further reports needed.

OHR systems logged on 15 and 20 meters continuing again this month operating in the higher portion of the bands. There were a number of OHR systems operating on 10 meters. More details in the attached data report.

There is the continual illegal use of 10 meters for local short range communications in a number of Asian countries. More details are provided in the attached data report.

Thank you to all the regional observers for their reports, these reports are needed and really appreciated. Keep them coming.

Monitoring reports can also be sent directly to me, if you don't have a national monitoring coordinator.

For those who would like a CSV file of data please email me at: vk3mv@wia.org.au

Happy New Year and best wishes to you and your families.

Peter – VK3MV

Freq kHz	BW	YYYY	MM	DD	GMT	UTC	Emm	Bd	Sft	Hdg	ADM	ID	Description	Grid	Society	Notes
3538.0	3	2013	12	7	1855		J3E/U						SOUNDS ITALIAN	QG52xi	WIA	VK4TJ
3570.0	100	2013	12	30	1820		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
3572.0		2013	12	20	1925		A1A						MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ
3578.0	1	2013	12	7	1900		F1B		500				CONTINUOUS	QG52xi	WIA	VK4TJ
3585.0	3	2013	12	24	1910		J1C				JPN		FAX	QG52xi	WIA	VK4TJ
3623.0	3	2013	12	7	1850		J1C				JPN		FAX	QG52xi	WIA	VK4TJ
3700.0	100	2013	12	7	1845		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
3757	0.5	2013	12	17	11:45	19:45	A1A						random number(. . 6ndd 4nau t37n . .)	PM84UQ	JARL	
3762	0.5	2013	12	16	11:01	20:01	A1A						repeat of "yuqw yuqw yuqw de asdf asdf v"	PM84UQ	JARL	
3766	0.5	2013	12	27	11:19	20:19	A1A						random number(. . d456 nu5t u5nd 637n . .)	PM84UQ	JARL	
3770.0	100	2013	12	24	1905		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
3780.0	100	2013	12	20	1930		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
3783.0		2013	12	7	1840		A1A					DRV8	CALLING H2FL	QG52xi	WIA	VK4TJ
3797.0		2013	12	7	1840		A1A					DRV8	CALLING H2FL	QG52xi	WIA	VK4TJ
3798	0.5	2013	12	15	12:55	21:55	A1A						repeat of " h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3798	0.5	2013	12	16	11:03	20:03	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3798	0.5	2013	12	17	11:51	19:51	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3798	0.5	2013	12	18	11:03	21:03	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3798	0.5	2013	12	19	11:31	20:31	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3798	0.5	2013	12	20	11:23	19:23	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v "	PM84UQ	JARL	
3798	0.5	2013	12	21	11:05	22:05	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v "	PM84UQ	JARL	
3798	0.5	2013	12	23	11:55	07:55	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v "	PM84UQ	JARL	
3798	0.5	2013	12	24	11:00	20:00	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v "	PM84UQ	JARL	
3798	0.5	2013	12	26	11:02	21:02	A1A						repeat of "h2fl h2fl h2fl de drvz drvz V"	PM84UQ	JARL	
3798	0.5	2013	12	27	11:29	20:29	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v "	PM84UQ	JARL	
3798	0.5	2013	12	29	10:43	19:43	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3798	0.5	2013	12	30	10:15	19:15	A1A						repeat of "h2fl h2fl h2fl de drvz drvz v"	PM84UQ	JARL	
3799.5		2013	12	30	1815		A1A						MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ
3800.0	100	2013	12	30	1810		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
6970.0	100	2013	12	2	1010		P0N						DAILY, OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
6979.5	59	2013	12	08	<0706>	0706	P0N			330	?	Unid	OTHR S8 24 pps continuous	RF73MF	NZART	ZL1GWE

6982.5	51	2013	12	07	<0753>	0753	P0N	330	?	Unid	OTHR S7 21 pps constant rate	RF73MF	NZART	ZL1GWE
7000.0	5	2013	12	4	1150		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
7000.0	3	2013	12	2	1010		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7000		2013	12	DY	<0530>	0530-1900	J3E/L		?	Unid	Non-Hams, mainly Spanish & Indonesian Languages - when OTHR is not on.	RF72LQ	NZART	ZL2BAD
7000		2013	12	DY	<0530>	0530-1900	G7DE/F		?	Unid	HF Man Pack 1PSK & 8 PSK	RF72LQ	NZART	ZL2BAD
7001		2013	12	06	<0150-0158>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7005.0	3	2013	12	3	0950		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7005.0	3	2013	12	12	0950		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7007		2013	12	11	<0220-0225>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7008		2013	12	18	<0150-0205>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7010.0	5	2013	12	1	2015		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
7010.0	3	2013	12	2	1145		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7010.0	3	2013	12	3	1155		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7010	20	2013	12	03	<1125>	1125	P0N		?	Unid	OTHR Out of band with spread to 7010. 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
7010	10	2013	12	05	<1110>	1110	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
7015.0	3	2013	12	3	0920		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7015.0	3	2013	12	3	1155		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7017		2013	12	01	<0120-0135>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7017		2013	12	24	<0235-0245>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7018.0	5	2013	12	24	1915		N0N				WITH 50 HZ HUM MODULATION.	QG52xi	WIA	VK4TJ
7020.0	20	2013	12	28	1010		VXX				CODAR	QG52xi	WIA	VK4TJ
7020.0	5	2013	12	17	1040		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
7020.0	3	2013	12	2	1145		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7021.0	5	2013	12	12	1205		G7D				10 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
7023.0	1	2013	12	12	1205		F1B				SELCALL TONES	QG52xi	WIA	VK4TJ
7025.0	20	2013	12	17	1930		VXX				CODAR	QG52xi	WIA	VK4TJ
7025.0	3	2013	12	24	1915		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7025.0	3	2013	12	3	0920		J3E/U				ASIAN, SOUNDS CHINESE	QG52xi	WIA	VK4TJ
7025		2013	12	16	<0145-0155>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7028	3	2013	12	06	1806	H24	F1B	non	non	non	Beacon	PM97	JARL	non
7030.0	20	2013	12	20	1010		P0N				OTHR, SLOW PULSE RATE	QG52xi	WIA	VK4TJ
7030.0	5	2013	12	6	0935		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ

7030.0	3	2013	12	6	0935		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7030.0	3	2013	12	12	1210		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7030	40	2013	12	16	<1115>	1115	P0N		?	Unid	OTHR Continuous 50 pps S8 - 79dbm	RF72LQ	NZART	ZL2BAD
7035	40	2013	12	05	<1105>	1105	P0N		?	Unid	OTHR Continuous 50 pps S8 - 79dbm	RF72LQ	NZART	ZL2BAD
7037.7		2013	12	24	<0320-0325.		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY - 2 OM	MK82	ARSI	
7038.7		2013	12	1	2015		A1A		RUS	D	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7038.8		2013	12	1	2015		A1A		RUS	P	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7038.9		2013	12	7	1915		A1A		RUS	S	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7039		2013	12	01	<2200-2215>		A1A		RUS	"P"	SINGLE LETTER BEACON "P"	MK82	ARSI	
7039		2013	12	DY	<0530>	0530-1900	A1A		RUS	M	Magadan - Beacon M RTS	RF72LQ	NZART	ZL2BAD
7039		2013	12	DY	<0530>	0530-1900	A1A		RUS	F	Vladivostok - Beacon F RJS	RF72LQ	NZART	ZL2BAD
7039		2013	12	DY	<0530>	0530-1900	A1A		RUS	P	Kaliningrad - Beacon P RMP	RF72LQ	NZART	ZL2BAD
7039		2013	12	DY	<0530>	0530-1900	A1A		RUS	K	Petropavlovsk - Beacon K RCC	RF72LQ	NZART	ZL2BAD
7039	0.5	2013	12	01	0816	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	01	1020	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	01	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	01	1620	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	01	1712	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	01	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	01	2226	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	02	0812	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	02	1010	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	02	1720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	02	1840	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	02	2214	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	03	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsty
7039	0.5	2013	12	03	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	04	0820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	04	1842	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsty
7039	0.5	2013	12	04	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	05	0756	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	05	1952	H24	A1A	300	RUS	D--signal	Beacon	PM97	JARL	Sevastopol
7039	0.5	2013	12	05	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	06	0830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	06	1810	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	06	2026	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsty
7039	0.5	2013	12	06	2030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	06	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	07	0812	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	07	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	07	1620	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan

7039	0.5	2013	12	07	1730	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	07	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	07	1940	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	07	2224	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	0820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	1010	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	1206	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	1720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	1840	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	08	2310	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	09	0806	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	09	1840	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	09	2030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	09	2306	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	10	0630	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	10	1920	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	10	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	11	0820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	11	2044	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	11	2208	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	12	0750	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	12	1910	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	12	2236	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	13	0710	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	13	2030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	13	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	14	0700	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	14	2040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	14	2208	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	15	0710	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	15	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	15	2040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	15	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	16	0812	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	16	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	17	0750	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	17	2040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	17	2236	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	18	2050	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	18	2224	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	19	1230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	19	2104	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	19	2234	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	20	0810	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan

7039	0.5	2013	12	20	2042	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	20	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	21	0830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	21	2040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	21	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	22	0840	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	22	2020	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	22	2220	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	23	0830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	23	2020	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	23	2240	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	24	0840	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	24	2030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	24	2210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	25	0830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	25	2040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	25	2236	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	26	0820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	26	2040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	26	2240	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	27	0720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	27	0810	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	27	0936	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	27	2240	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	28	0720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	28	2234	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	29	0448	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	29	2240	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	30	0740	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	30	2238	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	31	0820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	12	31	2228	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039.2		2013	12	7	1915		A1A		RUS	K	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7039.3		2013	12	1	2015		A1A		RUS	M	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7039.3		2013	12	DY	<0530>	0530-1900	A1A		RUS	S	Severomorsk - Beacon S RIT	RF72LQ	NZART	ZL2BAD
7039.4		2013	12	DY	<0530>	0530-1900	A1A		RUS	C	Moscow - Beacon C RIW	RF72LQ	NZART	ZL2BAD
7039.9		2013	12	DY	<0530>	0530-1900	A1A		RUS	A	Astrakhan (No call sign)	RF72LQ	NZART	ZL2BAD
7040	0.5	2013	12	15	12:57	21:57	A1A				Beacon A			
7040	0.5	2013	12	16	11:11	20:11	A1A				train of " M "	PM84UQ	JARL	
7040	0.5	2013	12	19	11:35	20:35	A1A				train of " M "	PM84UQ	JARL	
7040	0.5	2013	12	20	11:36	19:36	A1A				train of " M "	PM84UQ	JARL	
7040	0.5	2013	12	21	11:07	22:07	A1A				train of " M "	PM84UQ	JARL	
7040	0.5	2013	12	23	11:58	07:58	A1A				train of " M "	PM84UQ	JARL	
7040	0.5	2013	12	24	11:05	20:05	A1A				train of " M "	PM84UQ	JARL	

7040	0.5	2013	12	26	11:05	21:05	A1A			train of " M "	PM84UQ	JARL		
7040	0.5	2013	12	27	11:30	20:30	A1A			train of " M "	PM84UQ	JARL		
7040	0.5	2013	12	29	10:43	19:46	A1A			train of "M"	PM84UQ	JARL		
7045	60	2013	12	03	<1125>	1125	P0N	?	Unid	OTHR Continuous 70 pps	RF72LQ	NZART	ZL2BAD	
7050.0	1	2013	12	23	1215		F1B			SELCALL TONES	QG52xi	WIA	VK4TJ	
7050.0	50	2013	12	1	2020		P0N			OTHR, BURSTS	QG52xi	WIA	VK4TJ	
7060.0	50	2013	12	4	2000		P0N, BURSTS			OTHR, BURSTS	QG52xi	WIA	VK4TJ	
7065	10	2013	12	04	<1835>	1835	P0N	?	Unid	OTHR 1.8 every 5 secs 70 pps	RF72LQ	NZART	ZL2BAD	
7069.0	1	2013	12	7	1915		A2A	RUS	V	HARBOUR BEACON? MODULATION IS HUM	QG52xi	WIA	VK4TJ	
7070.0	40	2013	12	28	1010		VXX			CODAR	QG52xi	WIA	VK4TJ	
7070.0	50	2013	12	18	0750		P0N			OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ	
7070		2013	12	01	<1910>	1910	P0N	?	Unid	OTHR Continuous 50 pps S8 - 79dbm	RF72LQ	NZART	ZL2BAD	
7070	0.5	2013	12	18	11:08	21:08	A1A			random number(. . 4na4 ii 2 pga . . 5665 . .)	PM84UQ	JARL		
7075	20	2013	12	10	<1830>	1830	P0N	?	Unid	OTHR Continuous 3 pps	RF72LQ	NZART	ZL2BAD	
7075	55	2013	12	16	<1115>	1115	P0N	?	Unid	OTHR Continuous 50 pps S8 - 79dbm	RF72LQ	NZART	ZL2BAD	
7078.0	5	2013	12	24	1920		G7D			DOZENS OF SUBCARRIERS ON APPROX 42 HZ INTERVALS	QG52xi	WIA	VK4TJ	
7078	3.3	2013	12	11	<1820>	1820	M7B	?	Unid	Multi Chnl	RF72LQ	NZART	ZL2BAD	
7083.0		2013	12	20	1010		A1A			MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ	
7090.0	5	2013	12	20	1940		G7DF			HF MANPACK	QG52xi	WIA	VK4TJ	
7090.0	100	2013	12	20	1935		P0N			OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ	
7091		2013	12	20	<0230- 0235>		J3E/L	CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
7092.0		2013	12	17	1955		A1A			NUMBER CIPHER	QG52xi	WIA	VK4TJ	
7098.0		2013	12	20	1010		A1A			MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ	
7100.0	100	2013	12	24	1910		P0N			OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ	
7100.0	40	2013	12	12	1210		VXX			CODAR	QG52xi	WIA	VK4TJ	
7103.0	3	2013	12	24	1920		F1B			SELCALL TONES	QG52xi	WIA	VK4TJ	
7119.5	49	2013	12	08	<0706>	0706	P0N	330	?	Unid	OTHR S8 24 pps continuous	RF73MF	NZART	ZL1GWE
7120.0	8	2013	12	7	1840		A3E		SOM		RADIO HARGEISA	QG52xi	WIA	VK4TJ
7120	6	2013	12	22	<1533- 1546>		A3E		SOM	DOM.SER	MK82	ARSI		
7120		2013	12	DY	<1700>	1700-1845	A3E		SOM	R. Hargaysa	RF72LQ	NZART	ZL2BAD	
7126.5	153	2013	12	07	<0758>	0758	P0N	330	?	Unid	OTHR S7 21 pps constant rate	RF73MF	NZART	ZL1GWE
7130.0	100	2013	12	7	1840		P0N			OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ	
7135	10	2013	12	05	<1910>	1910	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
7135.1	3	2013	12	20	1935		J3E/U		PHL		TAGALOG SPEAKERS, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ

7140.0	100	2013	12	20	1015		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
7140.0	40	2013	12	4	2005		VXX				CODAR	QG52xi	WIA	VK4TJ
7144	3.3	2013	12	03	<1125>	1125	M7B		?	Unid	Multi-chnl S9 -73dbm	RF72LQ	NZART	ZL2BAD
7144	36	2013	12	04	1836	H24	PXX	non	non	non	7126KHz ~ 7162KHz wide pulse mode PXX OTHR ?	PM97	JARL	non
7145	30	2013	12	09	<1835>	1835	P0N		?	Unid	OTHR Continuous 3 pps	RF72LQ	NZART	ZL2BAD
7150.0		2013	12	12	1210		A1A				MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ
7150.0	15	2013	12	13	1935		P0N				OTHR, SHORT BURSTS, NARROW OCCUPIED BANDWIDTH	QG52xi	WIA	VK4TJ
7150.0	200	2013	12	5	0945		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
7150	70	2013	12	04	<1830>	1830	P0N		?	Unid	OTHR Continuous 50 pps S8 - 79dbm	RF72LQ	NZART	ZL2BAD
7169.2	3	2013	12	20	1025		J3E/U		PHL		TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ
7175	30	2013	12	10	<1830>	1830	P0N		?	Unid	OTHR Continuous 50 pps S8 - 79dbm	RF72LQ	NZART	ZL2BAD
7180.0	50	2013	12	30	0710		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
7183.0	3	2013	12	7	1920		J3E/U		PHL		TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ
7185.8	8	2013	12	12	1215		A3E				SW BROADCAST	QG52xi	WIA	VK4TJ
7186.0	5	2013	12	20	1025		G7D				8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
7186	3.3	2013	12	17	<1140>	1140	M7B		?	Unid	Multi Chnl	RF72LQ	NZART	ZL2BAD
7189	32	2013	12	30	<0645>	0645	P0N		?	Unid	OTHR S3 23 pps continuous	RF73MF	NZART	ZL1GWE
7195		2013	12	05	<1105>	1105	XXX		?	Unid	Unknown continues system	RF72LQ	NZART	ZL2BAD
7200	5	2013	12	01	2218	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	01	2222	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	01	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	02	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	02	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	02	2206	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	02	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	03	2218	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	03	2224	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	03	2258	H24	A3E	15	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	04	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	04	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	04	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non

7200	5	2013	12	04	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	05	2220	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	05	2224	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	05	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	06	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	06	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	06	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	06	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	07	2216	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	07	2220	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	07	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	08	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	08	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	08	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	08	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	09	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	09	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	09	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	09	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	10	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	10	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	10	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	10	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	11	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	11	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	11	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non

7200	5	2013	12	11	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	12	2228	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	12	2232	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	12	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	13	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	13	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	13	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	13	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	14	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	14	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	14	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	14	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	15	2220	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	15	2224	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	15	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	16	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	16	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	16	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	16	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	17	2228	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	17	2232	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	17	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	18	2212	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	18	2216	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	18	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	19	2226	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	19	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	19	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on	PM97	JARL	non

time

7200	5	2013	12	20	2220	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	20	2224	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	20	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	21	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	21	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	21	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	21	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	22	2210	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	22	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	22	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	23	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	23	2234	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	23	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	1	2013	12	24	2155	H24	A0N	non	CHN	non	no mod	PM97	JARL	non
7200	5	2013	12	24	2200	H24	A3E	non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	3	2013	12	24	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	24	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	25	2226	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	25	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	25	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	26	2232	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	26	2236	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	26	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	27	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	27	2234	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	27	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	28	2226	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	28	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non

7200	5	2013	12	28	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	29	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	29	2234	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	29	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	30	2230	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	30	2234	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	30	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200	5	2013	12	31	2220	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	12	31	2224	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	12	31	2258	H24	A3E	non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7200.1	8	2013	12	12	1215		A3E		BUR		SW BROADCAST	QG52xi	WIA	VK4TJ
7210		2013	12	30	<0631>	0631	A3E	330	CHN	Radio China	Broadcast S8 Radio China	RF73MF	NZART	ZL1GWE
10120.0	100	2013	12	4	2005		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
10130.0	100	2013	12	18	1940		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
10140.0	6	2013	12	6	0930		A3E		NKR		SW BROADCAST	QG52xi	WIA	VK4TJ
10170.0	100	2013	12	4	0650		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
14000.0	5	2013	12	30	0715		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14000.0	30	2013	12	21	0800		P0N				OTHR, SLOW PULSE RATE	QG52xi	WIA	VK4TJ
14000.1	3	2013	12	24	1045		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14001		2013	12	24	<0235- 0245>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14001		2013	12	25	<0310- 0320>		J3E/L		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14001.3	3	2013	12	24	1045		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14002		2013	12	01	<1040- 1050>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14002		2013	12	21	<0430- 0440>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14002.3	3	2013	12	20	0650		J3E/U				SPANISH SPEAKERS	QG52xi	WIA	VK4TJ
14003.0	3	2013	12	7	1925		J3E/U				SLAVIC LANGUAGE	QG52xi	WIA	VK4TJ
14005.0	5	2013	12	30	0715		0720				HF MANPACK	QG52xi	WIA	VK4TJ
14005		2013	12	13	<1120- 1125>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14007		2013	12	10	<1230- 1240>		J3E/U		CHN	UNID	CHINESE SPEAKERS	MK82	ARSI	
14008.4		2013	12	01	<1130- 1145>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA	MK82	ARSI	

										LANGUAGE ONLY – 2 OM			
14010.0	5	2013	12	30	0710	G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14010		2013	12	23	<0235-0245>	J3E/U	CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14011.0	3	2013	12	13	0830	J3E/L		PHI		TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ
14011		2013	12	06	<0300-0310>	J3E/U	CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14012		2013	12	02	<1210-1215>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14012		2013	12	04	<0230-0240>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14013.0	3	2013	12	24	1930	F1B				SELCALL TONES	QG52xi	WIA	VK4TJ
14014		2013	12	04	<0240-0250>	J3E/U	CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14014		2013	12	05	<0200-0210>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	07	<0255-0310>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	09	<0140-0150>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	11	<0215-0220>	J3E/U		CLN	UNID	ONE MALE SRILANKAN FISHERMAN REPEATEDLY MENTIONED “ANTENNA”	MK82	ARSI	
14014		2013	12	12	<0210-0220>	J3E/U		CHN	UNID	CHINESE SPEAKERS	MK82	ARSI	
14014		2013	12	13	<1120-1135>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	20	<0250-0255>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	23	<0240-0250>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	24	<0320-0325>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	12	24	<0320-0325>	J3E/L		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14015.0	5	2013	12	30	0720	G7DF				OM;2ND GRP HF MANPACK	QG52xi	WIA	VK4TJ
14015		2013	12	16	<1220-1230>	J3E/U	CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		

14015		2013	12	18	<0145-0200>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14015		2013	12	21	<0210-0225>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14015		2013	12	24	<0235-0245>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14020.0	5	2013	12	30	0730		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14020		2013	12	11	<1120-1125>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14022		2013	12	15	<1140-1150>		J3E/U		CHN	UNID	CHINESE SPEAKERS	MK82	ARSI	
14023		2013	12	15	<0705>	0705-0707	J7D	330	CHN	Unid	Chinese 4+4 DQPSK Encrypted S4	RF73MF	NZART	ZI1GWE
14024		2013	12	14	<0220-0230>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14025.0	5	2013	12	30	0735		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14025.9	3	2013	12	30	2120		J3E/U				SPANISH SPEAKERS	QG52xi	WIA	VK4TJ
14028		2013	12	30	<0626>	0626	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14030.0	5	2013	12	30	0755		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14030.0	20	2013	12	17	1035		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
14030.0	3	2013	12	2	2025		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14030.0	20	2013	12	18	0825		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
14032.0	5	2013	12	13	0830		G7D				100'S OF SUBCARRIERS ON 22 HZ INTERVALS	QG52xi	WIA	VK4TJ
14032.8	3	2013	12	16	0700		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14034.0	3	2013	12	13	0720		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14034		2013	12	09	<0155-0200>		J3E/U		UNID	UNID	UNID S.E ASIAN MALE WITH ANOTHER ONE	MK82	ARSI	
14035		2013	12	01	<1050-1055>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14035		2013	12	08	<1230-1240>		J3E/U		CLN	UNID	TWO GROUPS OF SINHALA FISHING TRAWLERS ON SAME FREQ	MK82	ARSI	
14035		2013	12	09	<1310-1318>		J3E/U		INS	UNID	INDONESIAN MALE SINGING HERE	MK82	ARSI	
14035		2013	12	09	<1325-1335>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14035		2013	12	10	<1240-1250>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14035		2013	12	11	<0225-0235>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14035		2013	12	13	<0145-0200>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA	MK82	ARSI	

											LANGUAGE ONLY – 2 OM				
14035	2013		12	15	<0110-0120>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14035	2013		12	18	<0140-0205>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14035	2013		12	25	<0310-0315>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14040	10	2013	12	03	<2325>	2325	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD	
14045.0	5	2013	12	30	0810		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14048.0	3	2013	12	20	0630		J3E/U		PHI		TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ	
14049.8	3	2013	12	26	1145		J3E/L				ASIAN, SOUNDS HINDI	QG52xi	WIA	VK4TJ	
14050.0	5	2013	12	10	0720		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14050	10	2013	11	22	<2250>	2250	P0N		?	Unid	OTHR Not Measured S2 - 115dbm	RF72LQ	NZART	ZL2BAD	
14050.6	3	2013	12	19	2155		J3E/L		PHI		DAILY, TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ	
14052.0	5	2013	12	17	0745		G7D				12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ	
14055.0	5	2013	12	5	1745		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14056.4	3	2013	12	21	0840		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14056.7	3	2013	12	1	2010		J3E/U				DAILY, ASIAN	QG52xi	WIA	VK4TJ	
14060.0	5	2013	12	30	2150		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14060.0	3	2013	12	30	0900		J3E/U				SOUNDS SPANISH	QG52xi	WIA	VK4TJ	
14063.0	1	2013	12	22	1925		G7D				4 SUBCARRIERS ON 150 HZ INTERVALS	QG52xi	WIA	VK4TJ	
14065.0	5	2013	12	31	2045		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14065.0	1	2013	12	30	0910		F1B	200			REPETITIVE	QG52xi	WIA	VK4TJ	
14070.0	5	2013	12	30	1210		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14080.0	5	2013	12	31	2050		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14082.9	3	2013	12	5	0935		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14085.0	5	2013	12	30	0925		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14087.7	3	2013	12	26	1155		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14089.9	3	2013	12	26	1155		J3E/L				ASIAN, SOUNDS HINDI	QG52xi	WIA	VK4TJ	
14095.0	5	2013	12	30	0940		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14100.0	5	2013	12	17	1020		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14104.0	3	2013	12	4	0820		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14105.0	5	2013	12	30	0940		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14109.8	3	2013	12	6	0950		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14110.0	5	2013	12	30	0640		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14113	19	2013	12	30	<0617>	0617	P0N		330	?	Unid	OTHR S3	RF73MF	NZART	ZI1GWE
14115.0	5	2013	12	31	2050		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14115	10	2013	11	19	<2330>	2330	P0N			?	Unid	OTHR 3.8 every 30 secs 70 pps S3 -109dbm	RF72LQ	NZART	ZL2BAD
14119.0	5	2013	12	2	0650		G7D				8 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ	

14119		2013	12	02	<0636>	0636	J7D	330	CHN	Unid	Chinese 4+4 DQPSK Encrypted S5	RF73MF	NZART	ZL1GWE
14125.0	5	2013	12	4	0820		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14125	10	2013	11	15	<2255>	2255	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
14125	10	2013	11	22	<2250>	2250	P0N		?	Unid	OTHR Not Measured S2 -115dbm	RF72LQ	NZART	ZL2BAD
14125.9	3	2013	12	20	0640		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14130.0	20	2013	12	21	0755		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
14131		2013	12	30	<0629>	0629	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14135	10	2013	11	19	<2330>	2330	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
14137.0	3	2013	12	20	0645		F1B				SELCALL TONES	QG52xi	WIA	VK4TJ
14145	10	2013	11	15	<2245>	2245	P0N		?	Unid	OTHR 6.3 every 30 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
14151		2013	12	30	<0629>	0629	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73Mf	NZART	ZL1GWE
14157.3	3	2013	12	2	1005		J3E/U				ASIAN, KIDS TALKING TO DADDY	QG52xi	WIA	VK4TJ
14173.2	3	2013	12	6	0955		J3E/L				ASIAN	QG52xi	WIA	VK4TJ
14190	10	2013	12	07	<0220>	0220	P0N		?	Unid	OTHR 3.8 at variable times Max 30 secs. 70 pps	RF72LQ	NZART	ZL2BAD
14200.0	1	2013	12	20	0640		F1B	250			CONTINUOUS	QG52xi	WIA	VK4TJ
14200.7	3	2013	12	2	1005		J3E/U				ASIAN, FAMILY NET	QG52xi	WIA	VK4TJ
14212.9	3	2013	12	7	0345		J3E/L				SOUNDS ARABIC	QG52xi	WIA	VK4TJ
14215.0	5	2013	12	4	0825		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14216	10	2013	12	19	<2350>	2350	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps	RF72LQ	NZART	ZL2BAD
14217.7	3	2013	12	21	0850		J3E/U				ASIAN, FAMILY NET	QG52xi	WIA	VK4TJ
14220.0	20	2013	12	21	0755		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
14225	10	2013	12	08	<1920>	1920	P0N		?	Unid	OTHR 1..3 every 5 secs 80 pps. S7 -85dbm	RF72LQ	NZART	ZL2BAD
14230	10	2013	12	03	<2325>	2325--2340	P0N		?	Unid	OTHR 6.3 every 30 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
14233.0	5	2013	12	21	0755		G7D				8 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ
14233		2013	12	21	<0616>	0616	J7D	330	CHN	Unid	Chinese 4+4 DQPSK encrypted traffic mode and idling S4	RF73Mf	NZART	ZL1GWE
14234		2013	12	30	<0617>	0617	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73Mf	NZART	ZL1GWE
14235	10	2013	12	08	<2335>	2335	P0N		?	Unid	OTHR 3.8 every 1 minute 70 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
14240.0	10	2013	12	15	0935		P0N		RUS		OTHR, CONTINUOUS. QTH = GORODETS	QG52xi	WIA	VK4TJ
14240	15	2013	12	08	<0640>	0640	P0N		?	Unid	OTHR Continuous 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
14240	14	2013	12	08	<0704>	0704	P0N	330	?	Unid	OTHR 50 pps S5 continuous	RF73MF	NZART	ZL1GWE
14240	10	2013	12	19	<2330>	2330	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps	RF72LQ	NZART	ZL2BAD
14250.0	100	2013	12	7	0935		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
14270.0	50	2013	12	6	0955		P0N				OTHR, LONG BURSTS, SLOW PULSE RATE	QG52xi	WIA	VK4TJ

14270	10	2013	12	03	<2320>	2320	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S6 -91dbm	RF72LQ	NZART	ZL2BAD	
14287		2013	12	22	<0551>	0551`	G7DF		330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14290	10	2013	12	03	<2325>	2325	P0N			?	Unid	OTHR 3.8 every 30 secs 70 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
14292.0	5	2013	12	12	0915		G1D				VERY BROAD PSK	QG52xi	WIA	VK4TJ	
14298.0	3	2013	12	26	1220		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14300.0		2013	12	12	0915		A1A				MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ	
14302		2013	12	07	<0726>	0726	P0N		330	?	Unid	OTHR ROTHR 10-12 pps S2 rapid 30 seconds	RF73Mf	NZART	ZL1GWE
14302		2013	12	26	<2211>	2211	P0N		330	?	Unid	OTHR S2-S3 17-19 pps 8.2 second bursts	RF73MF	NZART	ZL1GWE
14302.1	3	2013	12	30	1020		J3E/U				ASIAN	QG52xi	WIA	VK4TJ	
14303	10	2013	12	03	<2325>	2325	P0N			?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
14305	10	2013	11	17	<2350>	2350-2359	P0N			?	Unid	OTHR 3.8 every 30 secs 70 pps S3 -109dbm	RF72LQ	NZART	ZL2BAD
14305	10	2013	11	18	<0001>	0001-0006	P0N			?	Unid	OTHR 3.8 every 30 secs 70 pps S3 -109dbm	RF72LQ	NZART	ZL2BAD
14306		2013	12	22	<0551>	0551	G7DF		330	?	Und	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14308.0	1	2013	12	30	1020		F1B	HIGH 500			CONTINUOUS	QG52xi	WIA	VK4TJ	
14310.0	50	2013	12	5	1945		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ	
14310	20	2013	12	05	<1110>	1110	P0N			?	Unid	OTHR 3.8 every 30 secs 70 pps S9+ -53dbm Very wide side bands	RF72LQ	NZART	ZL2BAD
14315.5	3	2013	12	30	1020		J3E/U			PHI	TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ	
14320		2013	12	22	<0551>	0551	G7DF		330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14332.0	5	2013	12	20	0705		G7D				DOZENS OF SUBCARRIERS ON APPROX 42 HZ INTERVALS	QG52xi	WIA	VK4TJ	
14334		2013	12	02	<0620>	0620	G7DF		330	?	Unid	Stanag 4285 encrypted signal suspected to be Nato or Russian S4	RF73MF	NZART	ZL1GWE
14334	27	2013	12	29	<0715>	0715	P0N		330	?	Unid	OTHR 66pps S6 4 second d bursts	RF73MF	NZART	ZL1GWE
14335.0	5	2013	12	2	0635		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
14335.0	5	2013	12	2	0630		G7D				DOZENS OF SUBCARRIERS ON RANDOM INTERVALS	QG52xi	WIA	VK4TJ	
14344.0	5	2013	12	26	2250		G7D				ABOUT 12 CARRIERS ON 100 HZ INTERVALS C/W BEEP - ARQ?	QG52xi	WIA	VK4TJ	
14345	2.5	2013	12	26	<2245>	2245	P0N		315	?	Unid	OTHR 60 pps 2.8 second bursts with pip at beginning S3	RF73MF	NZART	ZL1GWE
14345	10	2013	12	03	<2320>	2320	P0N			?	Unid	OTHR 3.8 every 30 secs 70 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
14346		2013	12	25	<0615>	0615	G7DF		330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
18068		2013	12	DY	HX	HX	G7DE/F			?	Unid	HF Man Pack 1 PSK	RF72LQ	NZART	ZL2BAD
18070.0	20	2013	12	15	0715		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ	
18070.0	5	2013	12	21	1010		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
18070	20	2013	12	15	<0710>	0710	P0N		330	CYP	Unid	OTHR S4 50 pps continuous	RF73MF	NZART	ZL1GWE

18080.0	5	2013	12	20	2310		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
18090.0	20	2013	12	18	0630		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
18130.0	20	2013	12	25	0700		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
18134	12	2013	12	25	<0633>	0633	P0N		330	?	Unid	OTHR S6 46 pps 5.2 second bursts	RF73MF	NZART	ZL1GWE
18136	2.8	2013	12	02	<0233>	0233	G7D	120	330	?	Unid	OFDM 14 tones S5 with guard frequency of 18139 (Russian)?	RF73MF	NZART	ZL1GWE
18137.0	5	2013	12	1	0935		G7D					DAILY, 12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
18138	3.3	2013	12	03	<0145>	0145	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	04	<0230>	0230-0235	M7B			?	Unid	Multi-chnl idling Closed at 0235	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	05	<0025>	0025-0250	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	05	<2230>	2230	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	06	<0001>	0001-0720	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	06	<2230>	2230	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	07	<0400>	0400	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	08	<0145>	0145-0410	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18138	3.3	2013	12	09	<0215>	0215	M7B			?	Unid	Multi chnl S8 -79dbm	RF72LQ	NZART	ZL2BAD
18147.5	15	2013	12	25	<0633>	0633	P0N		330	?	Unid	OTHR 46 pps 5.2 second bursts S6	RF73MF	NZART	ZL1GWE
18168	27	2013	12	08	<0450>	0450	P0N		330	?	Unid	OTHR S3 50 PPS on top of Land of Hope Broadcast Station	RF73MF	NZART	ZL1GWE
18170.0	50	2013	12	8	0455		P0N					OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
21000.0	5	2013	12	27	0555		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21000.0	3	2013	12	20	0215		J3E/U					SPANISH LANGUAGE	QG52xi	WIA	VK4TJ
21000.0	20	2013	12	14	0700		P0N					OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
21000		2013	12	DY	HX24	HX24	G7DE			?	Unid	HF Man Pack 6 & 8 PSK	RF72LQ	NZART	RF72LQ
21000	9	2013	12	28	<0556>	0556-0657	XXX		330	?	Unid	Unidentified suspected to be MIL-188-110C with synchronisation issues	RF73MF	NZART	ZL1GWE
21005.0	10	2013	12	28	0625		G7D					100'S OF SUBCARRIERS ON SMALL INTERVALS	QG52xi	WIA	VK4TJ
21005.0	5	2013	12	13	0845		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21010.0	5	2013	12	27	0605		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21015.0	5	2013	12	6	1000		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21020.0	5	2013	12	26	0750		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21025.0	5	2013	12	27	0605		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21030.0	20	2013	12	13	0845		P0N					OTHR, CONTINUOUS, SLOW PULSE RATE	QG52xi	WIA	VK4TJ
21030.0	5	2013	12	2	0955		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21032.0	5	2013	12	14	0120		G7D					8 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ
21032		2013	12	23	<0450-0455>		OTHR			UNID	UNID	OTHR SPREADS FROM 21029 TO 21035 K Hz.	MK82	ARSI	

21032		2013	12	28	<0434>	0434	J7D		330	?	Unid	Chinese 4+4 DQPSK S3 traffic encrypted mode	RF73MF	NZART	ZL1GWE
21033		2013	12	30	<0424>	0424	J7D		330	CHN	Unid	Chinese 4+4 DQPSK S2 traffic encrypted mode	RF73MF	NZART	ZL1GWE
21033.7		2013	12	27	<0528>	0528	J7D	75	295	CHN	Unid	Chinese 4+4 DQPSK S4 traffic encrypted mode	RF73MF	NZART	ZL1GWE
21035.0	5	2013	12	14	1010		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21038		2013	12	25	<0607>	0607	G7DF		330	?>	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21040.0	5	2013	12	28	0025		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21040.0	50	2013	12	11	0615		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
21045.0	5	2013	12	14	1005		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21050.0	5	2013	12	5	2145		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21050	10	2013	12	05	<0050>	0050	P0N			?	Unid	OTHR 5.3 every 40 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21053.0	5	2013	12	2	0955		G7D					8 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ
21055.0	5	2013	12	6	2240		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21065.0	5	2013	12	17	0955		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21070.0	20	2013	12	27	0530		P0N					OTHR, CONTINUOUS, SLOW PULSE RATE	QG52xi	WIA	VK4TJ
21070	20	2013	12	27	<0522>	0522	P0N		330	CYP	Unid	OTHR 25 pps S4 continuous clean signal	RF73MF	NZART	ZL1GWE
21070	20	2013	12	27	<0552>	0552-0554	P0N		330	CYP	Unid	OTHR 50 pps S3 continuous clean signal	RF73MF	NZART	ZL1GWE
21077		2013	12	25	<0607>	0607	G7DF		330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21080.0	20	2013	12	14	0700		P0N					OTHR, CONTINUOUS, SLOW PULSE RATE	QG52xi	WIA	VK4TJ
21085	10	2013	11	25	<0630>	0630	P0N			?	Unid	OTHR every 30 secs S1 -121dbm	RF72LQ	NZART	ZL2BAD
21095.0	1	2013	12	26	0820		F1B					SELCALL TONES	QG52xi	WIA	VK4TJ
21100.0	5	2013	12	26	0830		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21110.0	20	2013	12	27	0525		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
21110	10	2013	11	15	<0620>	0620-0624	P0N			?	Unid	OTHR 5.3 every 30 secs 50 pps (Jumped to 21350)	RF72LQ	NZART	ZL2BAD
21111.5	11	2013	12	27	<0501>	0501	P0N		330	?	Unid	OTHR 64 pps S5	RF73MF	NZART	ZL1GWE
21112.1	3	2013	12	12	0900		J3E/U					ASIAN	QG52xi	WIA	VK4TJ
21114.5	11	2013	12	27	<0501>	0501	P0N		330	?	Unid	OTHR 47 pps S6	RF73MF	NZART	ZL1GWE
21115	10	2013	11	03	<0120>	0120-0645	P0N			?	Unid	OTHR 5.2 every 30 secs 50 pps Very wide side bands S9+ -63dbm	RF72LQ	NZART	ZL2BAD
21117		2013	12	15	<0442>	0442	G7DF		330	?	Unid	HF Man Pack 8 PSK S1	RF73MF	NZART	ZL1GWE
21120	15	2013	11	01	<0120>	0120	P0N			?	Unid	OTHR 3 secs every 30 secs 50 pps Very wide side bands. S9+ -63dbm	RF72LQ	NZART	ZL2BAD
21120	10	2013	11	29	<0640>	0640	P0N			?	Unid	OTHR 5.3 every 30 secs 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
21121		2013	12	25	<0606>	0606	G7DF		330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21130	25	2013	12	03	<1120>	1120	P0N			?	Unid	OTHR Continuous 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD

21135.0	5	2013	12	26	0910		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
21140.0	5	2013	12	6	0900		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
21141	20	2013	12	02	<0500>	0500	P0N		330	?	Unid	OTHR S7 41 pps 6.2 second bursts	RF73MF	NZART	ZL1GWE
21145	10	2013	11	25	<0505>	0505	P0N			?	Unid	OTHR 6.3 every 30 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21147		2013	12	15	<0439>	0439	G7DF		330	?	Unid	HF Man Pack 8 PSK S2	RF73MF	NZART	ZL1GWE
21150	10	2013	11	06	<0120>	0120	P0N			?	Unid	OTHR Every 30 secs 70 pps S2 -115dbm	RF72LQ	NZART	ZL2BAD
21156.8	3	2013	12	30	1030		J3E/U					ASIAN, SOUNDS CHINESE	QG52xi	WIA	VK4TJ
21160.0	20	2013	12	27	0140		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
21161		2013	12	26	<0646>	0646	G7DF		330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21165.0	5	2013	12	17	1010		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21168	24	2013	12	22	<0345>	0345	P0N		330	?	Unid	OTHR S6 46-48 pps 5.2 second bursts	RF73MF	NZART	ZL1GWE
21170.0	20	2013	12	22	0400		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
21170.0	5	2013	12	6	1000		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21175	10	2013	12	07	<2315>	2315	P0N			?	Unid	OTHR 5.3 every 35 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21186		2013	12	15	<0652>	0652	G7DF		330	?	Unid	HF Man Pack 8 PSK S2	RF73MF	NZART	ZL1GWE
21197		2013	12	25	<0605>	0605	G7DF		330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21200.0	20	2013	12	11	0620		VXX					CODAR-LIKE SWEEPS, PRECURSOR TO OTHR	QG52xi	WIA	VK4TJ
21200	20	2013	12	09	<0702>	0702	P0N			?	Unid	OTHR HFSWR 18 secs. 7 pps	RF72LQ	NZART	ZL2BAD
21200		2013	12	25	<0603>	0603	G7DF		330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21205	20	2013	11	15	<2055>	2055	P0N			?	Unid	OTHR 18 secs on 7 pps HFSWR	RF72LQ	NZART	ZL2BAD
21210.0	5	2013	12	14	0700		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21210.0	20	2013	12	28	0915		VXX					CODAR-LIKE SWEEPS, PRECURSOR TO OTHR	QG52xi	WIA	VK4TJ
21210	15	2013	11	01	<0001>	0001-0050	P0N			?	Unid	OTHR HFSWR 7 pps 18 secs S6 -91dbm	RF72LQ	NZART	ZL2BAD
21210	20	2013	11	12	<2157>	2157-1359	P0N			?	Unid	OTHR HFSWR 7 pps 18 secs S6 -91dbm	RF72LQ	NZART	ZL2BAD
21210	20	2013	11	13	<0001>	0001-0715	P0N			?	Unid	OTHR HFSWR 7 pps 18 secs S6 -91dbm	RF72LQ	NZART	ZL2BAD
21210	20	2013	11	15	<2228>	2228	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps	RF72LQ	NZART	ZL2BAD
21210	20	2013	11	24	<2128>	2128	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps	RF72LQ	NZART	ZL2BAD
21210	20	2013	11	25	<0400>	0400	P0N			?	Unid	OTHR HFSWR 18 secs every 5 mins. 7 pps	RF72LQ	NZART	ZL2BAD
21210	20	2013	11	29	<2334>	2334	P0N			?	Unid	OTHR HFSWR 7 pps 18 secs S6 -91dbm	RF72LQ	NZART	ZL2BAD
21213	11	2013	12	15	<0600>	0600.16-0600.34	P0N		330	?	Unid	OTHR 6.8 pps S5 18 seconds with centre pip HFSWR	RF73MF	NZART	ZL1GWE
21218		2013	12	15	<0653>	0653	G7DF		330	?	Unid	HF Man Pack 8 PSK S2	RF73MF	NZART	ZL1GWE
21219		2013	12	26	<2255>	2255	G7DF		330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21220	20	2013	12	07	</2125>	2125	P0N			?	Unid	HFSWR 7 pps 18 secs. S6 -91dbm	RF72LQ	NZART	ZL2BAD
21220	10	2013	12	08	<0001>	0001	P0N			?	Unid	OTHR 5.3 every 30 secs 50 pps	RF72LQ	NZART	ZL2BAD

21220	12	2013	12	15	<0550>	0550	P0N		330	?	Unid	OTHR HFSWR 45 seconds and 3 seconds bursts 6.8 pps with a pip	RF73MF	NZART	ZL1GWE
21230.0	20	2013	12	27	0140		VXX					CODAR-LIKE SWEEPS, PRECURSOR TO OTHR	QG52xi	WIA	VK4TJ
21230	10	2013	11	19	<2230>	2230	P0N			?	Unid	OTHR 1.6 at variable times 50\100 ppsS6 -91dbm	RF72LQ	NZART	ZL2BAD
21232	12	2013	12	26	<0656>	0656-0657	P0N		330	?	Unid	OTHR 7 pps 18 seconds long S2	RF73MF	NZART	ZL1GWE
21233.0	1	2013	12	12	0905		F1B	600				DAILY, IDLING	QG52xi	WIA	VK4TJ
21235	10	2013	12	10	<0025>	0025	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
21240	20	2013	12	07	<2143>	2143	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps	RF72LQ	NZART	ZL2BAD
21240	20	2013	12	08	<0143>	0143	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps	RF72LQ	NZART	ZL2BAD
21245	20	2013	12	08	<0135>	0135	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps	RF72LQ	NZART	ZL2BAD
21245	20	2013	11	24	<2131>	2131	P0N			?	Unid	OTHR HFSWR 18 secs 7 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
21250	20	2013	11	01	<0510>	0510-0515	P0N			AUS	JORN	OTHR Continuous 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
21250	20	2013	11	06	<0123>	0123	P0N			?	Unid	OTHR HFSWR 7 pps for 18 secs S4 -103dbm	RF72LQ	NZART	ZL2BAD
21250	20	2013	11	23	<0408>	0408	P0N			?	Unid	OTHR HFSWR 7 pps for 18 secs S4 -103dbm	RF72LQ	NZART	ZL2BAD
21255	20	2013	11	28	<0326>	0326	P0N			?	Unid	OTHR 18 secs 7 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
21260.0	5	2013	12	14	0130		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21260	10	2013	11	17	<0635>	0635	P0N			?	Unid	OTHR 6.3 every 30 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21265	20	2013	11	01	<0505>	0505	P0N			?	Unid	OTHR 18 secs 7 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21265		2013	12	25	<0604>	0604	G7DF		330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21270.0	20	2013	12	12	0905		P0N					OTHR, INFREQUENT BURSTS	QG52xi	WIA	VK4TJ
21270	10	2013	12	08	<0130>	0130	P0N			?	Unid	OTHR 5.3 every 30 secs 50 pps	RF72LQ	NZART	ZL2BAD
21275		2013	12	07	<0450>	0450-2125	F7D			?	Unid	Multi chnl all idling S9 -73dbm	RF72LQ	NZART	ZL2BAD
21275	20	2013	12	07	<2125>	2125	P0N			?	Unid	OTHR HFSWR 18 secs every 5 mins. 7 pps	RF72LQ	NZART	ZL2BAD
21280.0	20	2013	12	14	0705		VXX					CODAR-LIKE SWEEPS, PRECURSOR TO OTHR	QG52xi	WIA	VK4TJ
21280.0	5	2013	12	14	0705		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
21280	20	2013	12	17	<1145>	1145-1156	P0N			?	Unid	OTHR Continuous 50 pps Closed @ 1156	RF72LQ	NZART	ZL2BAD
21290	10	2013	12	03	<0030>	0030-0140	P0N			?	Unid	OTHR 1.3 @ variable times (max. 30 secs) 50 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
21290	10	2013	12	05	<2355>	2355-2359	P0N			?	Unid	OTHR 1.3 at variable times - max 30 secs. 50 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD
21290	10	2013	12	06	<0001>	0001	P0N			?	Unid	OTHR 1.3 at variable times - max 30 secs. 50 pps S5 -97dbm	RF72LQ	NZART	ZL2BAD

21295	10	2013	11	27	<0200>	0200	P0N		?	Unid	OTHR 1.3 at variable times (Max 30 secs) 50 pps S3 - 109dbm	RF72LQ	NZART	ZL2BAD
21300	20	2013	12	09	<0355>	0355-0410	P0N		?	Unid	OTHR Continuous 50pps Closed @ 0410> S9 -73dbm	RF72LQ	NZART	ZL2BAD
21301	28	2013	12	25	<0537>	0537	P0N	330	?	Unid	OTHR 50 pps S6 Continuous	RF73MF	NZART	ZL1GWE
21310.0	20	2013	12	15	0420		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21311	12	2013	12	26	<0648>	0648	P0N	330	?	Unid	OTHR S6	Rf73MF	NZART	ZL1GWE
21315.0	20	2013	12	26	0715		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21317		2013	12	25	<0607>	0607	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21318.0	1	2013	12	4	0830		F1B	600			DAILY, IDLING	QG52xi	WIA	VK4TJ
21320	20	2013	11	01	<0150>	0150	P0N		?	Unid	OTHR 6.3 every30 secs 50 pps Very wide side bands. S7 - 85dbm	RF72LQ	NZART	ZL2BAD
21325	10	2013	12	04	<0310>	0310-0350	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21329	20	2013	12	21	<0602>	0602-0605	P0N	330	?	Unid	OTHR S4 50 pps continuous	RF73MF	NZART	ZL1GWE
21330		2013	12	26	<2306>	2306	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21335	10	2013	12	10	<0020>	0020	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21335	20	2013	12	10	<0444>	0444	P0N		?	Unid	OTHR HFSWR 18 secs 7 pps	RF72LQ	NZART	ZL2BAD
21335		2013	12	15	<0551>	0551	G7DF	330	?	Unid	HF Man Pack 8 PSK S1 followed by S2 repeat	RF73MF	NZART	ZL1GWE
21335	10	2013	11	26	<0700>	0700-0710	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21335	10	2013	11	26	<0700>	0700-0710	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21344		2013	12	25	<0604>	0604	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21345	10	2013	11	03	<0335>	0335-0550	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21345	15	2013	11	18	<0624>	0624	P0N		?	Unid	OTHR 5.3 every 25 secs 50 pps S9+ -53dbm (Very wide)	RF72LQ	NZART	ZL2BAD
21347		2013	12	26	<0701>	0701	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21347		2013	12	26	<2256>	2256	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21350	10	2013	11	15	<0250>	0250-0600	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21358.0	3	2013	12	1	0920		J3E/U				ASIAN, SOUNDS CHINESE, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
21360.0	50	2013	12	5	0950		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21360	10	2013	11	26	<0630>	0630	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
21360	10	2013	12	05	<1110>	1110	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21365	10	2013	12	08	<0640>	0640	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
21370.0	50	2013	12	6	1000		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21370	10	2013	12	05	<0305>	0305-0615	P0N		?	Unid	OTHR 5.3 every 35 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21373		2013	12	25	<0603>	0603	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21380.0	50	2013	12	25	0920		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ

21380	10	2013	12	07	<2315>	2315	P0N		?	Unid	OTHR 5.3 every 35 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21385	10	2013	11	09	<0635>	0635	P0N		?	Unid	OTHR 5.3 every 35 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21385	10	2013	11	17	<0250>	0250	P0N		?	Unid	OTHR 3.8 every 30 secs 70 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21385	10	2013	11	28	<0115>	0115	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21385	10	2013	11	29	<0410>	0410	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21390.0	5	2013	12	13	0900		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21390.0	6	2013	12	1	0915		A3E				DAILY, ASIAN	QG52xi	WIA	VK4TJ
21391	11	2013	12	27	<0501>	0501	P0N	330	?	Unid	OTHR S6 65 pps	Rf73MF	NZART	ZL1GWE
21391	18	2013	12	15	<0332>	0332	P0N	330	?	Unid	OTHR 65 pps and 45 pps bursts of 5.7 seconds each S8	RF73MF	NZART	ZL1GWE
21392.7	3	2013	12	5	0950		J3E/L				ASIAN	QG52xi	WIA	VK4TJ
21400	15	2013	11	16	<2350>	2350-2359	P0N		?	Unid	OTHR 6.3 every 30 secs 50 pps Very wide side bands. S7 -85dbm	RF72LQ	NZART	ZL2BAD
21405	20	2013	11	02	<0215>	0215-0227	P0N		?	Unid	OTHR 5.2 every 30 secs 50 pps Very wide side bands S9+ -63dbm	RF72LQ	NZART	ZL2BAD
21405	10	2013	11	04	<1900>	1900-2359	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21409	12	2013	12	27	<0501>	0501	P0N	330	?	Unid	OTHR S6 48 pps	RF73MF	NZART	ZL1GWE
21410	10	2013	12	05	<0615>	0615	P0N		?	Unid	OTHR 5.3 every 35 secs 70 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21410	20	2013	12	27	<0632>	0632-0634	P0N	330	?	Unid	OTHR S4 50 pps continuous	RF73MF	NZART	ZL1GWE
21418		2013	12	15	<0557>	0557	G7DF	330	?	Unid	HF Man Pack 8 PSK S1	RF73MF	NZART	ZL1GWE
21420	10	2013	12	10	<0440>	0440	P0N		?	Unid	OTHR 3.3 every 25 secs 50 pps	RF72LQ	NZART	ZL2BAD
21425	15	2013	11	19	<0001>	0001-0020	P0N		?	Unid	OTHR 5 closely spaced bursts of 15 secs duration every 15 Mins. Wide. S7 -85dbm	RF72LQ	NZART	ZL2BAD
21425	15	2013	11	19	<0130>	0130-0300	P0N		?	Unid	OTHR 5 burses of 15 secs duration 2 pps every 15 Mins very wide S7 -85dbm	RF72LQ	NZART	ZL2BAD
21425	10	2013	11	26	<2325>	2325	P0N		?	Unid	OTHR 5.3 every 40 secs 50 pps S8 -79dbm	RF72LQ	NZART	ZL2BAD
21430	10	2013	11	10	<2335>	2335	P0N		?	Unid	OTHR 5.3 every 35 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21430	10	2013	11	11	<0500>	0500	P0N		?	Unid	OTHR 5.3 every 35 secs 50 pps S7 -85dbm	RF72LQ	NZART	ZL2BAD
21438.0		2013	12	1	0915		A1A		UKR	RCV	LETTER CIPHER	QG52xi	WIA	VK4TJ
21440.0	5	2013	12	1	0925		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21444		2013	12	15	<0558>	0558	G7DF	330	?	Unid	HF Man Pack 8 PSK S1	RF73Mf	NZART	ZL1GWE
21445	10	2013	12	13	<0705>	0705	P0N		?	Unid	OTHR 5.3 every 30 secs 50 pps S9 -73dbm	RF72LQ	NZART	ZL2BAD
21447	10	2013	12	06	<0650>	0650	P0N		?	Unid	OTHR 5.3 every 30 secs. 50 pps Part out of Band. S9 -73dbm	RF72LQ	NZART	ZL2BAD
21450.0	5	2013	12	14	0130		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ

24887.5	8	2013	12	2	0940		F3E				ASIAN	QG52xi	WIA	VK4TJ	
24895.0	5	2013	12	18	2100		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
24895	41	2013	12	15	<0537>	0537	P0N		330	?	Unid	OTHR 47 pps S8 bursts	Rf73MF	NZART	ZL1GWE
24900.0	5	2013	12	10	0905		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
24900.0	6	2013	12	4	0920		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24900		2013	12	DY	H24	H24	G7DE/F			?	Unid	HF Man Pack 1 PSK	RF72LQ	NZART	ZL2BAD
24905.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24909.0	5	2013	12	1	0120		G7D				8 PAIRS OF SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ	
24910.0	5	2013	12	14	0655		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
24911.0	5	2013	12	1	0120		G7D				8 PAIRS OF SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ	
24912.5	8	2013	12	1	0800		F3E				DAILY, ASIAN	QG52xi	WIA	VK4TJ	
24925.0	8	2013	12	1	0910		F3E				ASIAN	QG52xi	WIA	VK4TJ	
24930.0	20	2013	12	31	0020		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ	
24935.0	6	2013	12	1	0910		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24937.5	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24950.0	6	2013	12	12	0900		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24955.0	6	2013	12	7	0400		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24962.5	6	2013	12	2	0940		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24965.0	6	2013	12	6	1010		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24970.0	6	2013	12	4	0920		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24975.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24987.5	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
24990.0	40	2013	12	2	0705		VXX				DAILY, CODAR-LIKE SWEEPS	QG52xi	WIA	VK4TJ	
25030.0	50	2013	12	12	0900		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ	
28000.0	8	2013	12	1	0800		F3E				ASIAN	QG52xi	WIA	VK4TJ	
28000		2013	12	DY	HX	HX	F3E/A3E			CHN	Unid	Chinese CBers every 5 K, when band is open	RF72LQ	NZART	ZL2BAD
28000		2013	12	DY	HX	HX	G7DE/F			?	Unid	HF Man Pack 6 & 8 PSK	RF72LQ	NZART	ZL2BAD
28000		2013	12	DY	HX	HX	G7DE			?	Unid	HF Man Pack 1 PSK	RF72LQ	NZART	ZL2BAD
28002		2013	12	30	<0730>	0730	P0N		330	IRN	Unid	OTHR Iranian frequency hopping on band edge S2	RF73MF	NZART	ZL1GWE
28005.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
28010.0	100	2013	12	10	1000		P0N			IRI	IRANIAN OTHR	QG52xi	WIA	VK4TJ	
28012.5	6	2013	12	10	1010		A3E				ASIAN	QG52xi	WIA	VK4TJ	
28015.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
28020.0	100	2013	12	7	1200		P0N			IRI	IRANIAN OTHR	QG52xi	WIA	VK4TJ	
28025.0	8	2013	12	1	0905		F3E				ASIAN	QG52xi	WIA	VK4TJ	
28025.0	5	2013	12	1	0800		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ	
28035.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
28040.0	6	2013	12	1	0905		A3E				ASIAN	QG52xi	WIA	VK4TJ	
28045		2013	12	29	<0530>	0530	P0N		330	IRN	Unid	OTHR Iranian hopping around intermittently	RF73MF	NZART	ZL1GWE
28050.0	3	2013	12	1	0910		F1B				SELCALL TONES	QG52xi	WIA	VK4TJ	
28050.0	8	2013	12	1	0800		F3E				ASIAN	QG52xi	WIA	VK4TJ	

28055.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ
28059.5	1	2013	12	7	1025		F1B	300			BURSTS	QG52xi	WIA	VK4TJ
28060.0	5	2013	12	22	2130		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
28060.0	30	2013	12	1	0905		P0N				OTHR, CONTINUOUS, SLOW PULSE RATE	QG52xi	WIA	VK4TJ
28061.2		2013	12	16	2000		A1A			CPS	DRIFTNET BEACON	QG52xi	WIA	VK4TJ
28062.5	6	2013	12	10	1020		A3E				ASIAN	QG52xi	WIA	VK4TJ
28063.5	1	2013	12	28	0845		F1B	200			REPETITIVE	QG52xi	WIA	VK4TJ
28065.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ
28070.0	100	2013	12	12	0705		P0N			IRI	IRANIAN OTHR	QG52xi	WIA	VK4TJ
28075.0	6	2013	12	1	0800		A3E				SPANISH LANGUAGE, ROGER BEEPS	QG52xi	WIA	VK4TJ
28080.0	100	2013	12	7	0840		P0N			IRI	IRANIAN OTHR	QG52xi	WIA	VK4TJ
28085.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ
28088.6		2013	12	7	0830		A1A			5ABK	DRIFTNET BEACON	QG52xi	WIA	VK4TJ
28090.0	6	2013	12	13	0905		A3E				ASIAN	QG52xi	WIA	VK4TJ
28090		2013	12	25	<0647>	0647	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28100.0	100	2013	12	2	0710		P0N			IRI	IRANIAN OTHR	QG52xi	WIA	VK4TJ
28100.0	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ
28105.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28107		2013	12	25	<0657>	0657	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
28112.5	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28114		2013	12	25	<0651>	0651	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28115.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28125.0	8	2013	12	1	0805		F3E				ASIAN	QG52xi	WIA	VK4TJ
28125.5	57	2013	12	29	<0650>	0650	P0N	330	IRN	Unid	OTHR Iranian 857 and 308 pps bursts S2	RF73MF	NZART	ZL1GWE
28130.0	6	2013	12	19	0845		A3E				ASIAN	QG52xi	WIA	VK4TJ
28132.0	6	2013	12	7	0840		A3E				ASIAN	QG52xi	WIA	VK4TJ
28132.5	1	2013	12	13	0905		F1B	200			REPETITIVE	QG52xi	WIA	VK4TJ
28135.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28137.5	8	2013	12	4	0835		F3E				ASIAN	QG52xi	WIA	VK4TJ
28145.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28150.0	1	2013	12	8	0840		F1B	250			SHORT TRANSMISSIONS	QG52xi	WIA	VK4TJ
28150.0	6	2013	12	4	0835		A3E				ASIAN	QG52xi	WIA	VK4TJ
28155.0	6	2013	12	1	0905		A3E				ASIAN	QG52xi	WIA	VK4TJ
28165.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28175.0	8	2013	12	1	0805		F3E				ASIAN	QG52xi	WIA	VK4TJ
28185.0	8	2013	12	1	0805		F3E				ASIAN	QG52xi	WIA	VK4TJ
28187.5	8	2013	12	4	0835		F3E				ASIAN	QG52xi	WIA	VK4TJ
28195.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28200.0	8	2013	12	2	0710		F3E				ASIAN	QG52xi	WIA	VK4TJ
28201.5	1	2013	12	19	0850		F1B	150			CONTINUOUS	QG52xi	WIA	VK4TJ
28205.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28212.5	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28215.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ

28220.0	100	2013	12	28	0850		P0N			IRI	IRANIAN OTHR	QG52xi	WIA	VK4TJ
28225.0	8	2013	12	1	0805		F3E				ASIAN	QG52xi	WIA	VK4TJ
28233.0	1	2013	12	2	0715		F1B	200			DAILY, CONTINUOUS	QG52xi	WIA	VK4TJ
28235.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28237.5	6	2013	12	12	0950		A3E				ASIAN	QG52xi	WIA	VK4TJ
28245.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28250.0	8	2013	12	1	0805		F3E				ASIAN	QG52xi	WIA	VK4TJ
28250.0	5	2013	12	1	0805		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
28255.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28265.0	6	2013	12	1	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ
28270.0	100	2013	12	15	0905		P0N			CYP	OTHR. BASIC SIGNAL=20KHZ. SIDEBANDS BELOW & ABOVE	QG52xi	WIA	VK4TJ
28275.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28279		2013	12	30	<0613>	0613	G7DF	330	?	Unid	HF Man Pack S3 8-PSK	RF73MF	NZART	ZL1GWE
28282.5	57	2013	12	29	<0650>	0650	P0N	330	IRN	Unid	OTHR Iranian 857 and 308 pps bursts S2	RF73MF	NZART	ZL1GWE
28285.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28287.5	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28295.0	8	2013	12	1	0810		F3E				ASIAN	QG52xi	WIA	VK4TJ
28300.0	8	2013	12	1	0810		F3E				ASIAN	QG52xi	WIA	VK4TJ
28305.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28315.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28322		2013	12	29	<0703>	0703	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
28325.0	8	2013	12	1	0810		F3E				ASIAN	QG52xi	WIA	VK4TJ
28326	59	2013	12	07	<0654>	0654	P0N	330	IRN	Unid	OTHR Iranian 306-308 pps S2	RF73Mf	NZART	ZL1GWE
28335.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28340.0	6	2013	12	1	0905		A3E				ASIAN	QG52xi	WIA	VK4TJ
28350.0	8	2013	12	1	0810		F3E				ASIAN	QG52xi	WIA	VK4TJ
28350		2013	12	30	<0730>	0730	P0N	330	IRN	Unid	OTHR Iranian frequency hopping S2	RF73MF	NZART	ZL1GWE
28355.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28360	10	2013	12	13	<0645>	0645	P0N		?	Unid	OTHR Continuous 50 pps S9 - 73dbm	RF72LQ	NZART	ZL2BAD
28362.5	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28365.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28375.0	8	2013	12	1	0810		F3E				ASIAN	QG52xi	WIA	VK4TJ
28385.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28387.5	6	2013	12	1	0900		A3E				ASIAN	QG52xi	WIA	VK4TJ
28400.0	20	2013	12	15	0640		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
28400.0	6	2013	12	2	0925		A3E				ASIAN	QG52xi	WIA	VK4TJ
28400	20	2013	12	15	<0654>	0654	P0N	150	CYP	Unid	OTHR 50 PPS S2 increasing towards Long path S5	RF73MF	NZART	ZL1GWE
28402		2013	12	25	<0003>	0003	GDF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
28405.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28412.5	6	2013	12	2	0715		A3E				ASIAN	QG52xi	WIA	VK4TJ

28415.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28420		2013	12	25	<0649>	0649	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
28422	46	2013	12	07	<0654>	0654	P0N	330	IRN	Unid	OTHR S1-S2 Iranian frequency hopping 306-308 pps	RF73MF	NZART	ZL1GWE
28425.0	8	2013	12	1	0810		F3E				ASIAN	QG52xi	WIA	VK4TJ
28435.0	1	2013	12	1	0810		F1B	150			CONTINUOUS	QG52xi	WIA	VK4TJ
28435.0	6	2013	12	1	0810		A3E				ASIAN	QG52xi	WIA	VK4TJ
28436	42	2013	12	29	<0650>	0650	P0N	330	IRN	Unid	OTHR Iranian 857 and 308 pps bursts S2	RF73MF	NZART	ZL1GWE
28437.5	8	2013	12	2	0715		F3E				ASIAN	QG52xi	WIA	VK4TJ
28450.0	8	2013	12	1	0900		F3E				ASIAN	QG52xi	WIA	VK4TJ
28450	20	2013	12	27	<0544>	0544	P0N	330	CYP	Unid	OTHR 50 PPS S4 continuous clean signal	RF73Mf	NZART	ZL1GWE
28455.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28462.5	6	2013	12	7	0715		A3E				ASIAN	QG52xi	WIA	VK4TJ
28465.0	6	2013	12	2	0925		A3E				ASIAN	QG52xi	WIA	VK4TJ
28475.0	8	2013	12	1	0815		F3E				ASIAN	QG52xi	WIA	VK4TJ
28485.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28487.5	6	2013	12	2	0920		A3E				ASIAN	QG52xi	WIA	VK4TJ
28500.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28505.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28512.5	8	2013	12	1	0900		F3E				ASIAN	QG52xi	WIA	VK4TJ
28513	50	2013	12	07	<0654>	0654	P0N	330	IRN	Unid	OTHR S1-S2 Iranian frequency hopping 306-308 pps	RF73Mf	NZART	ZL1GWE
28515.0	6	2013	12	1	0900		A3E				ASIAN	QG52xi	WIA	VK4TJ
28520.0	100	2013	12	17	0940		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ
28525.0	8	2013	12	1	0815		F3E				ASIAN	QG52xi	WIA	VK4TJ
28530.0	6	2013	12	12	1000		A3E				ASIAN	QG52xi	WIA	VK4TJ
28535.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28550.0	8	2013	12	2	0720		F3E				ASIAN	QG52xi	WIA	VK4TJ
28554		2013	12	29	<0651>	0651	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
28555.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28562.5	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28565.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28575.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28585.0	6	2013	12	2	0720		A3E				ASIAN	QG52xi	WIA	VK4TJ
28587.5	8	2013	12	1	0815		F3E				ASIAN	QG52xi	WIA	VK4TJ
28592	51	2013	12	07	<0654>	0654	P0N	330	IRN	Unid	OTHR 306-308 pps Iranian frequency hopping S1-S2	RF72LQ	NZART	ZL1GWE
28595.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28600.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28601	22	2013	12	15	<0656>	0656-0702	P0N	260	?	Unid	OTHR 50 PPS S2 Continuous	RF73MF	NZART	ZL1GWE
28605.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28609		2013	12	22	<0643>	0643	G7DF	330	?	Unid	HF Man Pack S3 8-PSK	RF73MF	NZART	ZL1GWE
28612.5	6	2013	12	2	0900		A3E				ASIAN	QG52xi	WIA	VK4TJ
28615.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ

28620.0	6	2013	12	2	0900		A3E				ASIAN	QG52xi	WIA	VK4TJ
28625.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28635.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28640.0	6	2013	12	7	0720		A3E				ASIAN	QG52xi	WIA	VK4TJ
28645.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28650.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28655.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28660.0	100	2013	12	27	1025		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ
28665.0	6	2013	12	1	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ
28675.0	8	2013	12	1	0850		F3E				ASIAN	QG52xi	WIA	VK4TJ
28685.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28687.5	6	2013	12	2	0850		A3E				ASIAN	QG52xi	WIA	VK4TJ
28690	20	2013	12	15	<0547>	0547	P0N	330	CYP	Unid	OTHR 50 PPS S2 Continuous very clean	RF73Mf	NZART	ZL1GWE
28695.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28700.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28705.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28712.5	6	2013	12	2	0850		A3E				ASIAN	QG52xi	WIA	VK4TJ
28715.0	6	2013	12	2	0720		A3E				ASIAN	QG52xi	WIA	VK4TJ
28725.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28728		2013	12	22	<0641>	0641	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28728		2013	12	22	<0641>	0641	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28729		2013	12	22	<0645>	0645	G7DF	330	>	Unid	HF Man Pack S1 8-PSK	RF73Mf	NZART	ZL1GWE
28729		2013	12	22	<0645>	0645	G7DF	330	>	Unid	HF Man Pack S1 8-PSK	RF73Mf	NZART	ZL1GWE
28735.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28740.0	100	2013	12	17	0945		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ
28740.0	6	2013	12	17	0940		A3E				ASIAN	QG52xi	WIA	VK4TJ
28745.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28750.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28755.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28760.0	6	2013	12	30	0655		A3E				ASIAN	QG52xi	WIA	VK4TJ
28762.5	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28765.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28775.0	8	2013	12	1	0845		F3E				ASIAN	QG52xi	WIA	VK4TJ
28785.0	6	2013	12	8	0850		A3E				ASIAN	QG52xi	WIA	VK4TJ
28787.5	6	2013	12	1	0845		A3E				ASIAN	QG52xi	WIA	VK4TJ
28795.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28800.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28812.5	6	2013	12	27	1025		A3E				ASIAN	QG52xi	WIA	VK4TJ
28825.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28830.0	100	2013	12	15	0515		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ
28835.0	6	2013	12	7	0725		A3E				ASIAN	QG52xi	WIA	VK4TJ
28837.5	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28845.0	6	2013	12	21	0920		A3E				ASIAN	QG52xi	WIA	VK4TJ

28850.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28855.0	6	2013	12	7	0725		A3E				ASIAN	QG52xi	WIA	VK4TJ
28862.5	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28875.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28885.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28887.5	8	2013	12	2	0725		F3E				ASIAN	QG52xi	WIA	VK4TJ
28890.0	3	2013	12	15	0515		J3E/U		PHI		TAGALOG SPEAKERS	QG52xi	WIA	VK4TJ
28900.0	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28912.5	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28915.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28925.0	8	2013	12	1	0845		F3E				ASIAN	QG52xi	WIA	VK4TJ
28937.5	8	2013	12	1	0820		F3E				ASIAN	QG52xi	WIA	VK4TJ
28940.0	6	2013	12	7	0725		A3E				ASIAN	QG52xi	WIA	VK4TJ
28945.0	6	2013	12	1	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
28949.5	51	2013	12	30	<0548>	0548	P0N	330	IRN	Unid	OTHR Iranian 309 pps S2 + Chinese CBers F2 propagation	RF73MF	NZART	ZL1GWE
28950.0	6	2013	12	1	0825		A3E				ASIAN	QG52xi	WIA	VK4TJ
28955.0	6	2013	12	1	0825		A3E				ASIAN	QG52xi	WIA	VK4TJ
28962.5	6	2013	12	2	0725		A3E				ASIAN	QG52xi	WIA	VK4TJ
28965.0	6	2013	12	1	0825		A3E				ASIAN	QG52xi	WIA	VK4TJ
28970.0	100	2013	12	1	0825		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ
28975.0	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
28985.0	6	2013	12	2	0725		A3E				ASIAN	QG52xi	WIA	VK4TJ
28995		2013	12	22	<0637>	0637	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73Mf	NZART	ZL1GWE
28995		2013	12	22	<0637>	0637	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73Mf	NZART	ZL1GWE
29000.0	8	2013	12	21	0920		F3E				ASIAN	QG52xi	WIA	VK4TJ
29012.5	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29015.0	6	2013	12	17	0945		A3E				ASIAN	QG52xi	WIA	VK4TJ
29025.0	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29037.5	8	2013	12	2	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29040.0	6	2013	12	15	0510		A3E				ASIAN	QG52xi	WIA	VK4TJ
29050.0	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29062.5	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29065.0	6	2013	12	2	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ
29075.0	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29087.5	8	2013	12	2	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29091	20	2013	12	21	<0705>	0705-0715	P0N	330	CYP	Unid	OTHR 25 pps continuous S6	RF73MF	NZART	ZL1GWE
29095.0	6	2013	12	15	0510		A3E				ASIAN	QG52xi	WIA	VK4TJ
29100.0	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29112.5	6	2013	12	2	0820		A3E				ASIAN	QG52xi	WIA	VK4TJ
29125.0	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29137.5	8	2013	12	1	0825		F3E				ASIAN	QG52xi	WIA	VK4TJ
29145.0	6	2013	12	1	0825		A3E				ASIAN	QG52xi	WIA	VK4TJ
29150.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ
29150.5	23	2013	12	30	<0548>	0548-0557	P0N	330	CYP	Unid	OTHR 25 pps continuous S5	RF73MF	NZART	ZL1GWE

29162.5	6	2013	12	2	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29175.0	8	2013	12	1	0830		F3E				ASIAN	QG52xi	WIA	VK4TJ	
29187.5	6	2013	12	2	0815		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29195.0	6	2013	12	15	0510		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29200.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29212.5	6	2013	12	6	1145		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29225.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29237.5	6	2013	12	2	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29250.0	6	2013	12	27	1030		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29250.0	6	2013	12	1	0840		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29260.0	100	2013	12	22	0710		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ	
29262.5	6	2013	12	2	0805		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29269	54	2013	12	22	<0529>	0529-0626	P0N		330	IRN	Unid	OTHR 305 pps 5.4 second bursts and 870 pps 3.2 second bursts S3	RF73MF	NZART	ZL1GWE
29270.0	20	2013	12	22	0935		P0N				OTHR, CONTINUOUS, NOT IRAN	QG52xi	WIA	VK4TJ	
29275.0	6	2013	12	1	0840		F3E				ASIAN	QG52xi	WIA	VK4TJ	
29280.0	100	2013	12	24	1020		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ	
29287.5	6	2013	12	1	0840		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29290.0	100	2013	12	21	0925		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ	
29300.0	100	2013	12	1	0950		P0N		IRI		OTHR	QG52xi	WIA	VK4TJ	
29300.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29300	10	2013	12	15	<0635>	0635	P0N		?		Unid	OTHR Continuous 50 pps Closed @ 0635	RF72LQ	NZART	ZL2BAD
29312.5	8	2013	12	2	0730		F3E				ASIAN	QG52xi	WIA	VK4TJ	
29325.0	6	2013	12	1	0840		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29337.5	6	2013	12	2	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29350.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29362.5	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29375.0	6	2013	12	1	0840		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29387.5	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29400.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29412.5	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29415.0	6	2013	12	7	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29425.0	6	2013	12	7	0730		F3E				ASIAN MUSIC	QG52xi	WIA	VK4TJ	
29425.0	6	2013	12	1	0840		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29437.5	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29446.5	10	2013	12	08	<0603>	0610	P0N		330	?	Unid	OTHR S9 49-50 pps Continuous	RF73MF	NZART	ZL1GWE
29450.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29462.5	6	2013	12	1	0800		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29465.0	6	2013	12	7	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29475.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29487.5	6	2013	12	2	0755		A3E				ASIAN	QG52xi	WIA	VK4TJ	
29500.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ	

29512.5	6	2013	12	2	0735		A3E				ASIAN	QG52xi	WIA	VK4TJ
29515.0	6	2013	12	1	0835		A3E				ASIAN	QG52xi	WIA	VK4TJ
29525.0	8	2013	12	1	0830		F3E				ASIAN	QG52xi	WIA	VK4TJ
29537.5	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ
29550.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ
29550		2013	12	13	<2000>	2000-2200	F1B	150	?	Unid	Continuous 150 shift Unknown Baud rate - Unprintable	RF72LQ	NZART	ZL2BAD
29550		2013	12	17	<0001>	0001-0500	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29550		2013	12	19	<0230>	0230	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29550		2013	12	26	<2245>	2245	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29555.0	6	2013	12	4	0915		A3E				ASIAN	QG52xi	WIA	VK4TJ
29560.0	20	2013	12	2	0750		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
29562.5	6	2013	12	2	0755		A3E				ASIAN	QG52xi	WIA	VK4TJ
29564.5	39	2013	12	08	<0603>	0610	P0N	330	?	Unid	OTHR 50 PPS S3 Continuous	RF73MF	NZART	ZL1GWE
29565.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ
29575.0	6	2013	12	2	0745		A3E				ASIAN	QG52xi	WIA	VK4TJ
29595.5	10	2013	12	15	<0701>	0701	P0N	330	?	Unid	OTHR 50 PPS S2-3 Continuous	RF73MF	NZART	ZL1GWE
29600.0	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ
29612.5	6	2013	12	2	0735		A3E				ASIAN	QG52xi	WIA	VK4TJ
29620		2013	12	DY	HX	HX	A2D		?	Unid	Tone mod carriers 9 of them. Intermittent ops usually 1 min between	RF72LQ	NZART	ZL2BAD
29625.0	6	2013	12	2	0740		A3E				ASIAN	QG52xi	WIA	VK4TJ
29637.5	8	2013	12	1	0830		F3E				ASIAN	QG52xi	WIA	VK4TJ
29645.0	6	2013	12	15	0505		A3E				ASIAN	QG52xi	WIA	VK4TJ
29650.0	6	2013	12	2	0735		A3E				ASIAN	QG52xi	WIA	VK4TJ
29650		2013	12	13	<2025>	2025-2200	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29650		2013	12	16	<0610>	0610	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29650		2013	12	17	<0001>	0001-0500	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29650		2013	12	19	<0230>	0230	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29650		2013	12	26	<2245>	2245	F1B	150	?	Unid	FSK Unknown Baud rate - unprintable	RF72LQ	NZART	ZL2BAD
29662.5	6	2013	12	1	0830		A3E				ASIAN	QG52xi	WIA	VK4TJ
29675.0	8	2013	12	1	0835		F3E				ASIAN	QG52xi	WIA	VK4TJ
29687.5	8	2013	12	2	0735		F3E				ASIAN	QG52xi	WIA	VK4TJ
29700.0	8	2013	12	1	0835		F3E				ASIAN	QG52xi	WIA	VK4TJ