



# INTERNATIONAL AMATEUR RADIO UNION

## REGION THREE

### MONITORING SYSTEM NEWS LETTER



**April 2013**

**Peter Young VK3MV**

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

This month there were 1231 observations made across the Region as compared to last month of 1073.

R1 reports an OHR is operational on 10 meters appears to be covering 28050 up to 28350 kHz. Reports have been received in R3 as well.

A number of OHR systems have been logged on 15 meters this month operating in the higher portion of the band. Some of these have been operating in a sequence of two to three frequencies. These have been reported to regulatory authorities.

NZART reported a Chinese proprietary system called Chinese 4+4 digital system to be operating around 21363 kHz - J3E/L (LSB signal). This emission is typically used for Diplomatic Communications, but also used for off line crypto as well. This system has been reported to the Australian regulator.

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 vital and really appreciated. Keep them coming.

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

Peter – VK3MV

kHz	BW	YYYY	MM	DD	GMT	UTC	Emm	Bd	Sft	Hdg	ADM	ID	Description	Grid	Society	Notes
3502	0.5	2013	4	9		20:49	A1A						train of " wf3a "		JARL	
3505	0.5	2013	4	4		21:12	A1A						train of " wf3a "		JARL	
3505	0.5	2013	4	15		21:49	A1A						train of " wf3a "		JARL	
3526.0	3	2013	4	1	2010		J1C							QG52xi	WIA	VK4TJ
3553.0	3	2013	4	3	1915		J3E/L						ASIAN MUSIC	QG52xi	WIA	
3577.8	3	2013	4	2	1925		J3E/U				INS		BAHASA UNSTABLE CARRIER	QG52xi	WIA	
3593.0	2	2013	4	11	1630		N0N							QG52xi	WIA	
3623.0	3	2013	4	2	1925		J1C						DAILY	QG52xi	WIA	
3650.0	50	2013	4	3	1915		P0N						DAILY, OTHR, CONTINUOUS DAILY, OTHR, SPILLS INTO VK DX WINDOW	QG52xi	WIA	
3750.0	50	2013	4	19	1930		P0N						LETTER CIPHER	QG52xi	WIA	
3784.5		2013	4	3	1915		A1A							QG52xi	WIA	
3794.0		2013	4	19	1930		A1A					B6JT	QTC?	QG52xi	WIA	
3797.0		2013	4	3	1910		A1A					DRV8	H2FL DE DRV8	QG52xi	WIA	
3798	0.5	2013	4	4		21:21	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
3798	0,5	2013	4	6		22:30	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
3798	0.5	2013	4	9		20:55	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
3798	0.5	2013	4	20		21:23	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
3798	0.5	2013	4	22		22:26	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
3798	0.5	2013	4	26		20:58	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
6930.0	200	2013	4	1	2010		P0N						DAILY, OTHR, SPILLS INTO AMATEUR BAND	QG52xi	WIA	
7000.0	3	2013	4	2	0905		J3E/U				INS		DAILY, VILLAGE RADIO	QG52xi	WIA	
7000		2013	04	DY	<0300>	0300- 2200	J3E/L					Unid	Non-ham stns - when OTHR is not present	RF72LQ	NZART	ZL1BAD
7005.0	3	2013	4	2	0905		J3E/L				INS		DAILY, VILLAGE RADIO	QG52xi	WIA	
7005.0	3	2013	4	16	1135		J3E/U				INS		DAILY, VILLAGE RADIO	QG52xi	WIA	
7010.0	3	2013	4	11	1615		J3E/L				INS		DAILY, VILLAGE RADIO	QG52xi	WIA	
7010.0	3	2013	4	16	1135		J3E/U				INS		DAILY, VILLAGE RADIO	QG52xi	WIA	
7010	<100	2013	04		<1915>	1915	P0N					Unid	OTHR out of band spreading to 7010 MUSIC, ENGLISH	RF72LQ	NZART	ZL1BAD
7015.0	3	2013	4	2	0905		J3E/L						LANGUAGE	QG52xi	WIA	
7015.0	3	2013	4	2	0910		J3E/U				INS		DAILY, VILLAGE	QG52xi	WIA	

										RADIO						
7016.0	3	2013	4	29	1040		1045		125			MIL 188-141A ALE	QG52xi	WIA		
7020.0	3	2013	4	5	2000		J3E/L			INS		DAILY, VILLAGE	QG52xi	WIA		
7020.0	3	2013	4	16	1135		J3E/U			INS		RADIO	QG52xi	WIA		
7025.0	3	2013	4	3	1910		J3E/L			INS		DAILY, VILLAGE	QG52xi	WIA		
7025.0	3	2013	4	16	1135		J3E/U			INS		RADIO	QG52xi	WIA		
7029.0	5	2013	4	22	1015		G7D					AT LEAST 10				
7030.0	5	2013	4	20	1850		G7DF					SUBCARRIERS	QG52xi	WIA		
7030.0	3	2013	4	16	1140		J3E/L			INS		ON 150 HZ				
7030.0	1	2013	4	8	2050		F1B		250			INTERVALS	QG52xi	WIA		
												HF MANPACK	QG52xi	WIA		
												DAILY, VILLAGE	QG52xi	WIA		
												RADIO	QG52xi	WIA		
7036	1	2013	4	4	1824	H24	A0N		non	non	non	unkown no				
												modulation no				
												changed F1B?	PM97	JARL	non	
7036	1	2013	4	7	1820	H24	A0N		non	non	non	unkown no				
												modulation no				
												changed F1B?	PM97	JARL	non	
7036	1	2013	4	8	1824	H24	A0N		non	non	non	unkown no				
												modulation no				
												changed F1B?	PM97	JARL	non	
7038	3	2013	4	25	1812	H24	JM		non	non	non	unkown white				
												noise	PM97	JARL	non	
7038.5		2013	04	15	<1955>	1955	A1A			RUS	D	Beacon D no call	RF72LQ	NZART	ZL1BAD	
												sign or QTH				
7038.7		2013	4	1	2010		A1A			RU	D	DAILY, HARBOUR	QG52xi	WIA		
												BEACON				
7039.0		2013	4	3	1910		A1A			RU	S	DAILY, HARBOUR	QG52xi	WIA		
												BEACON				
7039		2013	04	DY	<0300>		A1A			RUS	C	Moscow - Beacon	RF72LQ	NZART	ZL1BAD	
												C - RIW				
7039		2013	04	DY	<0300>		A1A			RUS	A	Astrakhan (No call	RF72LQ	NZART	ZL1BAD	
												sign) Beacon A				
7039		2013	04	DY	<0300>		A1A			RUS	F	Vladivostok -	RF72LQ	NZART	ZL1BAD	
												Beacon F - RJS				
7039		2013	04	DY	<0300>		A1A			RUS	P	Kaliningrad -	RF72LQ	NZART	ZL1BAD	
												Beacon P - RMP				
7039	0.5	2013	4	1	1210	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	
7039	0.5	2013	4	1	1620	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	
7039	0.5	2013	4	1	1710	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	
7039	0.5	2013	4	1	1830	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	
7039	0.5	2013	4	1	2230	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan	
7039	0.5	2013	4	2	1210	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	
7039	0.5	2013	4	2	1214	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan	
7039	0.5	2013	4	2	1626	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	
7039	0.5	2013	4	2	1840	H24	A1A		37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy	

7039	0.5	2013	4	3	1220	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	3	1610	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	3	1716	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	3	1826	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	3	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	4	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	4	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	4	1714	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	4	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	5	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	5	1614	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	5	1710	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	5	1824	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	5	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	6	1220	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	6	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	6	1614	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	6	1706	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	6	1710	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	6	1816	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	6	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	7	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	7	1614	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	7	1720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	7	1810	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	7	2220	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	8	1214	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	8	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	8	1712	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	8	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	8	2222	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	9	1220	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	9	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	9	1720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	9	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	9	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	10	1220	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	10	1226	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	10	1610	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	10	1614	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	10	1710	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	10	1816	H24	A1A	37	RUS	K--signl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	10	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	10	2252	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	10	2304	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan



7039	0.5	2013	4	20	1210	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	20	1620	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	20	1624	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	20	1930	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	21	1210	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	21	1630	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	21	1634	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	21	1940	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	22	1212	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	22	1216	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	22	1630	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	22	1636	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	22	1940	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	23	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	23	1620	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	23	1940	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	24	1220	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	24	1630	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	24	1840	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	24	2010	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	24	2230	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	25	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	25	1214	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	25	1620	H24	A1A	15	non	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	25	1624	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	25	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	25	1824	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	26	1220	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	26	1224	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	26	1630	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	26	1634	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	26	1820	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	27	1210	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	27	1214	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	27	1624	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	27	1628	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	27	1830	H24	A1A	37	RUS	K--siganl	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2013	4	27	1834	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	28	1220	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	28	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	28	1720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	28	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	29	1206	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	29	1614	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	29	1720	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan

7039	0.5	2013	4	29	1830	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	30	1212	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	30	1620	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	30	1710	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	4	30	1830	H24	A1A		15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039.2		2013	4	2	0910		A1A			RU	K	DAILY, HARBOUR BEACON	QG52xi	WIA	
7039.3		2013	04	DY	<0300>	0300- 2200	A1A			RUS	K	Petropavlovsk - Beacon K - RCC	RF72LQ	NZART	ZL1BAD
7039.4		2013	04	DY	<0300>	0300- 2200	A1A			RUS	M	Magadan - Beacon M - RTS	RF72LQ	NZART	ZL1BAD
7039.5		2013	4	2	0910		A1A			RU	M	DAILY, HARBOUR BEACON.	QG52xi	WIA	
7039.9		2013	04	DY	<0300>	0300- 2200	A1A			RUS	S	ROUGH NOTE. Severomorsk - Beacon S - RIT	RF72LQ	NZART	ZL1BAD
7040.0	5	2013	4	6	1940		P0N			RU	P	MODULATION IS HUM	QG52xi	WIA	
7040	3	2013	4	4		21:23	A1A					train of " M "		JARL	
7040	0.5	2013	4	6		22:33	A1A					train of " M "		JARL	
7040	0.5	2013	4	9		20:57	A1A					train of " M "		JARL	
7040	0.5	2013	4	11		22:50	A1A					train of " K ", " M "		JARL	
7040	0.5	2013	4	15		21:53	A1A					train of " K "		JARL	
7040	0.5	2013	4	20		21:26	A1A					train of " K ", " M "		JARL	
7040	0.5	2013	4	22		22:29	A1A					train of " K ", " M "		JARL	
7040	0.5	2013	4	24		20:44	A1A					train of " M "		JARL	
7040	0.5	2013	4	26		20:59	A1A					train of " M ", " K "		JARL	
7042.0	5	2013	4	19	1005		G7D					>20 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
7044	3	2013	4	18	1820	H24	JM		non	non	non	unknown white noise	PM97	JARL	non
7045	3.3	2013	04	17	<1345>	1345	M7B			?	Unid	Multi-chnl. DAILY,	RF72LQ	NZART	ZL1BAD
7054.0	1	2013	4	1	2005		F1B	50 200		RU		CONTINUOUS RTTY Russian Air	QG52xi	WIA	
7054		2013	04	DY	<1900>	1900	F1B	250		RUS	REA4	Force unkown now on air	RF72LQ	NZART	ZL1BAD
7054	3	2013	4	3	1830	H24	F1B		non	non	non	unkown now on air	PM97	JARL	non
7054	3	2013	4	6	1840	H24	F1B		non	non	non	unkown now on air	PM97	JARL	non
7054	2	2013	4	8	1830	H24	A1A		non	non	non	unkown now on air	PM97	JARL	non
7054	3	2013	4	9	1836	H24	F1B		non	non	non	unkown IDL only	PM97	JARL	non
7054	3	2013	4	19	1936	H24	F1B		non	non	non	unkown IDL only	PM97	JARL	non
7054	3	2013	4	21	1946	H24	F1B		non	non	non	unkown now on air	PM97	JARL	non
7054	2	2013	4	30	1840	H24	F1B		non	non	non	unkown now on air	PM97	JARL	non

7056.0	10	2013	4	11	1620		G7D											>20 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA		
7057.0	5	2013	4	5	1955		G1D											BROAD PSK	QG52xi	WIA		
7100.0		2013	4	22	1015		A1A											MIXED NUMBER/LETTER CIPHER	QG52xi	WIA		
7102.0	3	2013	4	8	2045		F1B	125										MIL 188-141A ALE	QG52xi	WIA		
7105	5	2013	4	1	2220	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	1	2226	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	2	2246	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	2	2250	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	2	2258	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	5	2013	4	3	2220	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	3	2226	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	4	2210	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	4	2216	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	5	2230	H24	A1A		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	5	2234	H24	A1A		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	6	2212	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	6	2220	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	7	2210	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	7	2214	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	8	2210	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	8	2214	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							
7105	5	2013	4	9	2220	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot							
7105	3	2013	4	9	2226	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non							



7105	5	2013	4	10	2244	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Kamchatskiy
7105	3	2013	4	10	2248	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	10	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 23:00	PM97	JARL	non
7105	0.5	2013	4	11	2236	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 after QRT	PM97	JARL	non
7105	0.5	2013	4	11	2240	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	11	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	12	2220	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	12	2224	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	13	2204	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	13	2210	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	14	2216	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	14	2220	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	15	2220	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	15	2230	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	16	2214	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	16	2220	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	17	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	17	2216	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	18	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 22:00	PM97	JARL	Hohhot
7105	3	2013	4	18	2206	H24	A3E	non	CHN	non	UTC no Time signal	PM97	JARL	non
7105	3	2013	4	18	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 23:00	PM97	JARL	non
7105	5	2013	4	19	2214	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7105	5	2013	4	19	2214	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot

7105	3	2013	4	19	2220	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	20	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 22:00 UTC no Time signal	PM97	JARL	Hohhot
7105	3	2013	4	20	2210	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	3	2013	4	20	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7105	5	2013	4	21	2214	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	21	2220	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	22	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	22	2216	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	23	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 22:00 UTC no Time signal	PM97	JARL	Hohhot
7105	3	2013	4	23	2206	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	23	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7105	5	2013	4	24	2220	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	24	2226	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	25	2216	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	25	2220	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	26	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	26	2214	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	27	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	27	2214	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	28	2224	H24	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	28	2230	H24	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non

7105	5	2013	4	29	2210	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	29	2214	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2013	4	30	2210	H24	A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2013	4	30	2216	H24	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	3	2013	4	30	2258	H24	A3E		273	CHN	PBS Nei Meng	23:00 UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7108.0	1	2013	4	29	2000		F1B	750				ALE?	QG52xi	WIA	
7108.0		2013	4	8	2045		A1A					LETTER CIPHER, SOME CYRILLIC MOSLEMS AT PRAYER	QG52xi	WIA	
7110.0	3	2013	4	19	1000		J3E/L			INS			QG52xi	WIA	
7110.0	1	2013	4	19	1000		F1B	750				ALE?	QG52xi	WIA	
7110.0	5	2013	4	8	2045		G7DF					HF MANPACK	QG52xi	WIA	
7112		2013	04	18	<1205>	1205	F1B	250		?	Unid	Non standard type - not printable	RF72LQ	NZART	ZL1BAD
7115.0	5	2013	4	11	1615		G7DF					HF MANPACK CODAR 1 Pulse	QG52xi	WIA	
7115	30	2013	04	28	<1920>	1920	VXX			?	Unid	sec. continuous SW BROADCAST, RADIO HARGEISA	RF72LQ	NZART	ZL1BAD
7120.0	8	2013	4	10	1025		A3A			SOM			QG52xi	WIA	
7120		2013	04	DY	<1340>	1340-1830	A3E			SOM	R.Haygaysa	B-C stn. Music & Talk	RF72LQ	NZART	ZL1BAD
7120		2013	04	DY	<0420>	0420	A3E			SOM	R.Haygaysa	B-C stn. Music & Talk	RF72LQ	NZART	ZL1BAD
7120	3	2013	4	1	1820	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	2	1830	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	3	1836	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	4	1830	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	5	1840	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	6	1820	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	2	2013	4	8	1840	H24	A0N		non	non	non	unkown dots only	PM97	JARL	non
7120	3	2013	4	9	1842	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	10	1840	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	11	1830	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	13	1830	H24	A3E		non	non	non	unkown music	PM97	JARL	non

7120	3	2013	4	15	1840	H24	A3E		non	non	non	and talk unkown music	PM97	JARL	non
7120	3	2013	4	16	1834	H24	A3E		non	non	non	and talk unkown music	PM97	JARL	non
7120	3	2013	4	17	1836	H24	A3E		non	non	non	and talk unkown music	PM97	JARL	non
7120	3	2013	4	18	1830	H24	A3E		non	non	non	unknown music and talk	PM97	JARL	non
7120	3	2013	4	25	1830	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	26	1830	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	27	1840	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	28	1840	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	4	29	1840	H24	A3E		non	non	non	unkown music and talk	PM97	JARL	non
7130.0	5	2013	4	12	1940		G7DF					HF MANPACK 3 SUBCARRIERS ON 400 HZ CENTRES	QG52xi	WIA	
7133.0	4	2013	4	16	1130		G7D						QG52xi	WIA	
7138.0	3	2013	4	29	1040		F1B	125				MIL 188-141A ALE MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	
7149.9		2013	4	18	1000		A1A						QG52xi	WIA	
7155.0	3	2013	4	18	1000		J3E/U			PHL		TAGALOG TAGALOG, FISH BOATS	QG52xi	WIA	
7160.0	3	2013	4	29	2000		J3E/U			PHL			QG52xi	WIA	
7162.0	1	2013	4	5	1940		F1B	250				DAILY	QG52xi	WIA	
7162.0	3	2013	4	2	0910		J3E/U			PHL		TAGALOG	QG52xi	WIA	
7162		2013	04	18	<1205>	1205	F1B	200		?	Unid	Unprintable RTTY unknown now on air	RF72LQ	NZART	ZL1BAD
7163	3	2013	4	18	1824	H24	F1B		non	non	non	B-C strn. Music & Talk	PM97	JARL	non
7170		2013	04	16	<0420>	0420	A3E			?	Unid		RF72LQ	NZART	ZL1BAD
7172.0	1	2013	4	3	1905		F1B	250					QG52xi	WIA	
7172	3	2013	4	23	1934	H24	F1B		non	non	non	unkown now on air	PM97	JARL	non
7176.0		2013	4	22	1020		A1A					MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	
7176.7	3	2013	4	6	1935		J3E/U					TAGALOG OR BAHASA 8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
7178.0	5	2013	4	16	2005		G7D						QG52xi	WIA	
7178	3.3	2013	04	15	<1955>	1955	M7B			?	Unid	Multi-chnl 100'S OF SUBCARRIERS - JAMMING SIGNAL?	RF72LQ	NZART	ZL1BAD
7180.0	20	2013	4	11	1620		G7D						QG52xi	WIA	



14000	3	2013	4	2	05:27-- 06:00	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	2	23:00-- 01:00	J3E/U	315	CLN	2 males, on-off	OF84wx	WIA
14000	3	2013	4	3	01:12-- 01:24	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	3	01:36-- 01:42	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	3	04:25-- 04:36	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	3	08:10-- 08:15	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	3	22:40-- 00:12	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	4	00:50-- 01:27	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	4	07:05-- 07:50	J3E/U	315	CLN	Group of males, on-off	OF84wx	WIA
14000	3	2013	4	4	22:40-- 00:05	J3E/U	315	CLN	Group of males	OF84wx	WIA
14000	3	2013	4	5	00:15-- 01:25	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	5	02:25-- 03:10	J3E/U	315	CLN	2 males on-off	OF84wx	WIA
14000	3	2013	4	5	07:12-- 08:00	J3E/U	315	CLN	2 males on-off	OF84wx	WIA
14000	3	2013	4	5	08:00-- 08:30	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	5	08:30-- 10:00	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	5	22:46-- 00:10	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	6	00:40-- 00:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	6	01:05-- 01:40	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	6	<07:00-- 08:40	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	6	22:40-- 00:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	7	01:15-- 01:35	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	7	05:45-- 09:15	J3E/U	315	CLN	2 males	OF84wx	WIA

14000	3	2013	4	7	22:40-- 23:46	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	8	01:00-- 01:18	J3E/U	315	CLN	2 males play music and singing	OF84wx	WIA
14000	3	2013	4	8	09:22-- 0940	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	8	22:50-- 00:40	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	9	01:25-- 02:25	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	9	07:50-- 08:40	J3E/U	315	CLN	2 males on-off 4 to 5 times/hr	OF84wx	WIA
14000	3	2013	4	9	22:45-- 23:15	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	9	23:55-- 00:10	J3E/U	315	CLN	2 males, 1 male singing	OF84wx	WIA
14000	3	2013	4	10	00:10-- 00:30	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	10	03:20-- 08:25	J3E/U	315	CLN	2 males very few calls, 2 or 3 /hr	OF84wx	WIA
14000	3	2013	4	11	00:02-- 00:30	J3E/U	315	CLN	2 groups , but cannot hear each other	OF84wx	WIA
14000	3	2013	4	11	07:57-- 08:40	J3E/U	315	CLN	Group of males	OF84wx	WIA
14000	3	2013	4	11	23:18-- 23:30	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	12	00:05-- 00:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	12	22:50-- 23:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	13	00:45-- 01:20	J3E/U	315	CLN	2 males on-off	OF84wx	WIA
14000	3	2013	4	13	08:45-- 08:47	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	13	23:35-- 23:36	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	13	23:42-- 23:47	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	13	23:48-- 00:25	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	13	23:00-- 23:50	J3E/U	315	CLN	Group of males, on-off	OF84wx	WIA
14000	3	2013	4	14	22:55-- 23:20	J3E/U	315	CLN	2 males	OF84wx	WIA

14000	3	2013	4	15	00:30-- 00:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	15	02:23-- 06:40	J3E/U	315	CLN	2 males on-off 2 to 4 times ?hr	OF84wx	WIA
14000	3	2013	4	16	23:35-- 23:48	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	16	23:58-- 00:10	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	17	08:25-- 09:10	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	17	23:05-- 23:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	18	00:25-- 00:50	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	18	01:05-- 01:20	J3E/U	315	CLN	Group of males	OF84wx	WIA
14000	3	2013	4	18	06:43-- 07:10	J3E/U	315	CLN	2 males on-off	OF84wx	WIA
14000	3	2013	4	18	23:35-- 00:05	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	19	03:45-- 04:10	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	20	00:23-- 00:40	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	20	23:15-- 23:16	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	21	00:59-- 01:05	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	22	00:30-- 00:31	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	22	00:50-- 03:40	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	22	01:32-- 04:20	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	23	00:10-- 00:30	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	23	01:02-- 01:26	J3E/U	315	CLN	2 males on-off few calls	OF84wx	WIA
14000	3	2013	4	23	02:01-- 02:05	J3E/U	315	CLN	2 males short call	OF84wx	WIA
14000	3	2013	4	23	07:07-- 07:16	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	23	23:47-- 01:35	J3E/U	315	CLN	2 males	OF84wx	WIA



14000	3	2013	4	24	01:56-- 02:05	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	24	05:32-- 06:15	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	24	07:05-- 09:30	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	24	22:45-- 01:20	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	25	<03:40-- 06:40	J3E/U	315	CLN	2 males vy few calls	OF84wx	WIA
14000	3	2013	4	25	07:20-- 08:48	J3E/U	315	CLN	2 males on-off	OF84wx	WIA
14000	3	2013	4	25	22:50-- 23:15	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	25	23:47-- 23:50	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	26	00:10-- 00:20	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	26	00:42-- 01:00	J3E/U	315	CLN	Group of males	OF84wx	WIA
14000	3	2012	4	26	02:45-- 03:00	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	26	22:45-- 00:08	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	27	00:30-- 01:10	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	27	01:20-- 01:35	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	27	08:20-- 08:45	J3E/U	315	CLN	2 males, hard to hear!	OF84wx	WIA
14000	3	2013	4	27	23:15-- 23:20	J3E/U	315	CLN	2 males short call	OF84wx	WIA
14000	3	2013	4	28	00:26-- 00:35	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	28	01:30-- 01:32	J3E/U	315	CLN	1 male calling, no reply	OF84wx	WIA
14000	3	2013	4	28	04:15-- 08:10	J3E/U	315	CLN	2 males on-off 2 to 3 times/hr	OF84wx	WIA
14000	3	2013	4	28	22:45-- 01:58	J3E/U	315	CLN	Group of males	OF84wx	WIA
14000	3	2013	4	29	06:05-- 09:50	J3E/U	315	CLN	2 males short talks 3 to 4 /hr	OF84wx	WIA
14000	3	2013	4	29	22:50-- 23:45	J3E/U	315	CLN	group of males	OF84wx	WIA

14000	3	2013	4	30	00:20-- 00:50	J3E/U	315	CLN	2 males	OF84wx	WIA
							315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	30	01:12-- 01:20	J3E/U					
14000	3	2013	4	30	<04:00-- 04:55	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	30	07:10-- 07:54	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	30	08:54-- 09:02	J3E/U	315	CLN	2 males	OF84wx	WIA
14000	3	2013	4	30	22:45-- 23:55	J3E/U	315	CLN	2 males	OF84wx	WIA
14000.4	3	2013	4	20	06:15-- 06:22	J3E/U	315	CLN	2 males	OF84wx	WIA
14000.8	3	2013	4	23	08:33-- 08:48	J3E/U	315	CLN	2 males	OF84wx	WIA
									SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM		
14001		2013	4	27	<0220- 0230>	J3E/U		CLN	UNID	MK82	ARSI
14001.1	3	2013	4	23	0840	J3E/U				QG52xi	WIA
							315	CLN	2 males	OF84wx	WIA
14001.2	3	2013	4	3	00:24-- 00:26	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.2	3	2013	4	30	01:25-- 01:33	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.3	3	2013	4	17	02:00-- 02:10	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.3	3	2013	4	17	02:15-- 02:19	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.3	3	2013	4	22	00:35-- 00:45	J3E/U					
14001.4	3	2013	4	30	0655	J3E/U				QG52xi	WIA
14001.4	3	2013	4	2	0855	F1B	125		ASIAN DAILY, MIL 188- 141A ALE	QG52xi	WIA
							315	CLN	2 males	OF84wx	WIA
14001.4	3	2013	4	1	01:45-- 01:55	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.4	3	2013	4	12	01:18-- 01:28	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.4	3	2013	4	13	00:23-- 00:30	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.4	3	2013	4	13	23:05-- 23:07	J3E/U					
							315	CLN	2 males	OF84wx	WIA
14001.5	3	2013	4	7	23:47-- 00:27	J3E/U					
							315	CLN	2 males on-off	OF84wx	WIA

14001.5	3	2013	4	10	00:40-- 00:56		J3E/U	315	CLN		2 males	OF84wx	WIA		
14001.5	3	2013	4	11	23:33-- 23:40		J3E/U	315	CLN		2 males	OF84wx	WIA		
14001.5	3	2013	4	23	00:35-- 00:45		J3E/U	315	CLN		2 males	OF84wx	WIA		
14001.5	3	2013	4	24	02:10-- 02:20		J3E/U	315	CLN		2 males	OF84wx	WIA		
14001.5	3	2013	4	25	00:23-- 01:05		J3E/U	315	CLN		Group of males	OF84wx	WIA		
14002	3	2013	4	17	02:25-- 06:45		J3E/U	315	CLN		2 males on-off	OF84wx	WIA		
14002	3	2013	4	18	08:32-- 08:40		J3E/U	315	CLN		1 male 2 calls no reply	OF84wx	WIA		
14002	3	2013	4	24	08:10-- 10:05		J3E/U	315	CLN		2 males	OF84wx	WIA		
14002.2	3	2013	4	12	01:43-- 02:20		J3E/U	315	CLN		2 males	OF84wx	WIA		
14002.5	3	2013	4	10	01:15-- 01:24		J3E/U	315	CLN		2 males	OF84wx	WIA		
14002.7	3	2013	4	8	00:08-- 00:15		J3E/U	315	CLN		2 males on-off	OF84wx	WIA		
14003.3	3	2013	4	3	0755		J3E/U				ASIAN HF Man Pack S2 8-PSK	QG52xi RF73MF	WIA NZART	ZL1GWE	
14004		2013	04	28	<0416>	0416	G7DF	330	?	Unid					
14005.0	3	2013	4	9	2000		J3E/L	315	CLN		ASIAN 2 males	QG52xi OF84wx	WIA WIA		
14005.1	3	2013	4	1	11:02-- 11:30		J3E/U								
14005.3	3	2013	4	2	0855		J3E/U				SPANISH	QG52xi	WIA		
14008.0	1	2013	4	3	0930		F1B	250				QG52xi	WIA		
14008		2013	04	17	<1345>	1345	F1B	250	RUS	Unid	Traffic & Carrier. ***Under old Soviet system used the call sign UMS	RF72LQ	NZART	ZL1BAD	
14008.6	3	2013	4	3	2030		J3E/U				ASIAN	QG52xi	WIA		
14009.2	3	2013	4	18	0830		J3E/U				ASIAN	QG52xi	WIA		
14010.0	5	2013	4	8	2010		G7DF				HF MANPACK 8 SUBCARRIERS	QG52xi	WIA		
14014.0	5	2013	4	5	0820		G7D				ON 300 HZ INTERVALS SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE	QG52xi	WIA		
14014		2013	4	14	<0130- 0135>		J3E/U		CLN	UNID	ONLY - 2 OM	MK82	ARSI		

14014		2013	4	26	<0140-0150>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014.1	3	2013	4	4	1020	J3E/U				DAILY, ASIAN	QG52xi	WIA	
14015.0	3	2013	4	22	1000	J3E/U				ASIAN	QG52xi	WIA	
14015.0	5	2013	4	18	0930	G7DF				HF MANPACK SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	
14015		2013	4	14	<0150-055>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14015.7	3	2013	4	19	2100	J3E/U				DAILY, ASIAN	QG52xi	WIA	
14016.0	3	2013	4	15	0755	J3E/U				ASIAN	QG52xi	WIA	
14018.0	3	2013	4	15	0750	P0N				HIGH PULSE RATE, SHORT BLASTS	QG52xi	WIA	
14020.0	3	2013	4	29	0635	J3E/U		PHI		TAGALOG	QG52xi	WIA	
14020.0	5	2013	4	7	2005	G7DF				HF MANPACK OTHR,	QG52xi	WIA	
14020.0	20	2013	4	1	0425	P0N				CONTINUOUS	QG52xi	WIA	
14021.5	3	2013	4	5	1205	J3E/U				ASIAN	QG52xi	WIA	
14024.0	8	2013	4	14	0345	G7D				100'S OF SUBCARRIERS ON 36 HZ INTERVALS	QG52xi	WIA	
14025.0	5	2013	4	20	1220	G7D				12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
14026.0	5	2013	4	12	2000	G7D				8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
14028.0	3	2013	4	6	0840	J1C				DAILY	QG52xi	WIA	
14030.0	5	2013	4	7	1930	G7DF				HF MANPACK SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	
14030		2013	4	18	<0240-0250>	J3E/U		CLN	UNID	QSO between 2 unidentified OM, Language unidentified, like S.E. Asian	MK82	ARSI	
14031	1	2013	4	30	<1430-1440>	J3E/U		UNID	UNID	ASIAN, SOUNDS	NL06lu	ARSI	
14031.1	3	2013	4	28	0520	J3E/U				CHINESE	QG52xi	WIA	
14032		2013	04	28	<0401>	0401	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART ZL1GWE

14032.7		2013	4	14	<0135-0145>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14034.0	5	2013	4	28	0810	G7D				>10 SUBCARRIERS ON ARBITRARY INTERVALS. SOME KEYED, SOME NOT.	QG52xi	WIA		
14034.0	5	2013	4	15	0745	G7D				>10 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA		
14035.7	3	2013	4	13	1220	J3E/U				DAILY, ASIAN	QG52xi	WIA		
14036.0	5	2013	4	12	0715	G7D				4 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA		
14036.1	3	2013	4	6	0840	J3E/U				ASIAN	QG52xi	WIA		
14039.0	3	2013	4	29	1050	J3E/L				DAILY, ASIAN	QG52xi	WIA		
14040.4	3	2013	4	7	1005	J3E/L				DAILY, ASIAN	QG52xi	WIA		
14041.0	3	2013	4	7	2050	J3E/U				SLAVIC LANGUAGE	QG52xi	WIA		
14042.0	3	2013	4	30	0950	G7D				4 PAIRS OF SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA		
14044.4	3	2013	4	5	0825	J3E/L				DAILY, ASIAN, BAHASA OR TAGALOG	QG52xi	WIA		
14045.0	5	2013	4	30	0930	G7D				5 PAIRS OF SUBCARRIERS ON 250 HZ INTERVALS	QG52xi	WIA		
14045.0	5	2013	4	14	0340	G7DF				HF MANPACK	QG52xi	WIA		
14045		2013	4	27	<0230-0245>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI		
14047		2013	04	28	<0558>	0558	G7DF	330	?	Unid	HF Man Pack S1	RF73MF	NZART	ZL1GWE
14047		2013	04	28	<0619>	0619	G7DF	330	?	Unid	HF Man Pack S1	RF73MF	NZART	ZL1GWE
14048.0	3	2013	4	17	0625	J3E/U		PHL		8-PSK	RF73MF	WIA		
14050.0	1	2013	4	30	0810	F1B	250			DAILY, TAGALOG	QG52xi	WIA		
14050.0	5	2013	4	30	0730	G7D				5 PAIRS OF SUBCARRIERS	QG52xi	WIA		

														ON 250 HZ INTERVALS				
14050.0	3	2013	4	10	1000		J3E/U							DAILY, ASIAN	QG52xi	WIA		
14050.0	5	2013	4	7	2020		G7DF							HF MANPACK	QG52xi	WIA		
14050		2013	04	30	<0716>	0716	J7D	75		330	CHN	Unid	Diplomatic traffic	RF73MF		NZART	ZL1GWE	
14050.2	3	2013	4	13	1155		J3E/U						ASIAN	QG52xi		WIA		
14050.7	3	2013	4	30	0730		J3E/U						ASIAN	QG52xi		WIA		
14051.0	5	2013	4	2	0855		G7D						8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi		WIA		
14054		2013	04	28	<0357>	0357	G7DF			330	?	Unid	HF Man Pack S2	RF73MF		NZART	ZL1GWE	
14055.0	5	2013	4	27	0700		G7DF						HF MANPACK	QG52xi		WIA		
14056.3	3	2013	4	27	0700		J3E/U						ASIAN	QG52xi		WIA		
14057		2013	04	28	<0359>	0359	G7DF			330	?	Unid	HF Man Pack S2 8-PSK 4 SUBCARRIERS	RF73MF		NZART	ZL1GWE	
14057.7	5	2013	4	18	1020		G7D						ON 300 HZ INTERVALS	QG52xi		WIA		
14057.8	3	2013	4	20	1215		J3E/U						DAILY, ASIAN	QG52xi		WIA		
14059		2013	04	30	<0718>	0718	J7D	75		330	CHN	Unid	Diplomatic traffic S4 with QSB	RF73MF		NZART	ZL1GWE	
14060.0	5	2013	4	30	0650		G7D						5 PAIRS OF SUBCARRIERS					
14060.0	5	2013	4	7	0645		G7DF						ON 250 HZ INTERVALS	QG52xi		WIA		
14063.0	3	2013	4	19	0630		G7D						HF MANPACK	QG52xi		WIA		
14063.0	3	2013	4	15	0740		G7D						4 PAIRS OF SUBCARRIERS					
14063.0	3	2013	4	15	0740		G7D						ON 300 HZ INTERVALS	QG52xi		WIA		
14064.0	3	2013	4	22	0835		J3E/U						ON 300 HZ INTERVALS	QG52xi		WIA		
14065.0	5	2013	4	9	2015		G7DF						DAILY, ASIAN	QG52xi		WIA		
14066.1	3	2013	4	29	0915		J3E/U						HF MANPACK	QG52xi		WIA		
14068.0	3	2013	4	20	1015		J3E/U						ASIAN, TAGALOG OR BAHASA	QG52xi		WIA		
14076		2013	04	28	<0407>	0407	G7DF			330	?	Unid	DAILY, ASIAN HF Man Pack S2	RF73MF		NZART	ZL1GWE	
14080.2	3	2013	4	3	0935		J3E/U						8-PSK	RF73MF		NZART	ZL1GWE	
14088.2	3	2013	4	27	0725		J3E/U						ASIAN	QG52xi		WIA		
14090.0	5	2013	4	7	1025		G7DF						ASIAN	QG52xi		WIA		
14090.8	3	2013	4	18	1020		J3E/U						HF MANPACK	QG52xi		WIA		
													ASIAN	QG52xi		WIA		

14092.0	3	2013	4	2	0900	J3E/U					DAILY, ASIAN	QG52xi	WIA	
14092.5	3	2013	4	7	1025	J3E/U					DAILY, ASIAN	QG52xi	WIA	
14093.1	3	2013	4	29	0920	J3E/U					ASIAN	QG52xi	WIA	
14098.0		2013	4	25	0845	A1A					MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	
14098		2013	04	28	<0403>	0403	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
14100.0	3	2013	4	10	1150	J3E/U					DAILY, ASIAN	QG52xi	WIA	
14101.4	3	2013	4	20	1220	J3E/U					ASIAN	QG52xi	WIA	
14102.7	3	2013	4	15	0800	J3E/U					DAILY, ASIAN 8 SUBCARRIERS, RANDOM INTERVAL SPACING	QG52xi	WIA	
14104.0	5	2013	4	24	0755	G7D					HF Man Pack S1 8-PSK	QG52xi	WIA	
14104		2013	04	28	<0619>	0619	G7DF	330	?	Unid	ASIAN, SOUNDS TAGALOG	RF73MF	NZART	ZL1GWE
14105.0	3	2013	4	21	0120	J3E/U					HF Man Pack S1 8-PSK	QG52xi	WIA	
14107		2013	04	27	<0241>	0241	G7DF	330	?	Unid	HF MANPACK	RF73MF	NZART	ZL1GWE
14110.0	5	2013	4	14	0705	G7DF					ASIAN	QG52xi	WIA	
14110.0	3	2013	4	4	1135	J3E/L					ASIAN	QG52xi	WIA	
14120.0	3	2013	4	19	0745	J3E/L					ASIAN	QG52xi	WIA	
14121.0	3	2013	4	16	1015	J3E/U					ASIAN	QG52xi	WIA	
14121.0	3	2013	4	6	1025	F1B	125				MIL 188-141A ALE	QG52xi	WIA	
14121		2013	04	27	<0257>	0257	G7DF	330	?	Unid	HF Man Pack S1 8-PSK 100'S OF SUBCARRIERS ON 36 HZ INTERVALS	RF73MF	NZART	ZL1GWE
14122.0	5	2013	4	16	1015	G7D					HF Man Pack S2 8-PSK	QG52xi	WIA	
14122		2013	04	28	<0411>	0411	G7DF	330	?	Unid	ASIAN, FAMILY NET	RF73MF	NZART	ZL1GWE
14130.0	3	2013	4	30	1000	J3E/U					HF MANPACK	QG52xi	WIA	
14130.0	5	2013	4	9	2020	G7DF					HF Man Pack S1 8-PSK	QG52xi	WIA	
14130		2013	04	27	<0251>	0251	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
14131		2013	04	28	<0355>	0355	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
14137		2013	04	28	<0407>	0407	G7DF	330	?	Unid	ASIAN, FAMILY NET	Rf73MF	NZART	ZL1GWE
14140.1	3	2013	4	6	0845	J3E/U					Non Amateur Russian Speaker RA?	QG52xi	WIA	
14143		2013	04	06	<0856>	0856	J3E/U		RUS	Unid	HF Man Pack S2 8-PSK	RE54HF	NZART	ZL4IV
14143		2013	04	28	<0355>	0355	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
14145		2013	04	27	<0241>	0241	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE

14146		2013	04	28	<0603>	0603	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
14148		2013	04	28	<0619>	0169	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
14148.3	3	2013	4	8	0830		J3E/U				DAILY, ASIAN, FAMILY NET	QG52xi	WIA	
14148.8	3	2013	4	28	0815		J3E/U				DAILY, ASIAN HF Man Pack S2	QG52xi	WIA	
14149		2013	04	28	<0355>	0355	G7DF	330	?	Unid	8-PSK 100'S OF SUBCARRIERS CLOSELY SPACED	RF73MF	NZART	ZL1GWE
14150.0	5	2013	4	11	0640		G7D				ASIAN, SOUNDS CHINESE	QG52xi	WIA	
14156.0	3	2013	4	30	0910		J3E/L				ASIAN, SOUNDS CHINESE	QG52xi	WIA	
14157.0	3	2013	4	20	1020		J3E/U				HF Man Pack S2 8-PSK	QG52xi	WIA	
14157		2013	04	28	<0617>	0617	G7DF	330	?	Unid	ASIAN, SOUNDS CHINESE	RF73MF	NZART	ZL1GWE
14157.2	3	2013	4	30	1020		J3E/U				ASIAN, SOUNDS CHINESE	QG52xi	WIA	
14163.7	3	2013	4	5	0830		J3E/U				ASIAN, SOUNDS CHINESE DAILY, AT LEAST 12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
14172.0	5	2013	4	1	0955		G7D				MUSIC	QG52xi	WIA	
14181.0	3	2013	4	29	1015		J3E/U				Non amateur S9 Asian speaker not identified	QG52xi	WIA	
14181		2013	04	29	<0944>	0930- 0944	J3E/L		?	Unid	HF MANPACK QSO between 2 unidentified OM, Language unidentified, Like official QSO	RE43VT	NZART	ZL4AS
14185.0	5	2013	4	28	0820		G7DF				HF MANPACK QSO between 2 unidentified OM, Language unidentified, Like official QSO	QG52xi	WIA	
14188	2	2013	4	30	<1300- 1340>		J3E/L		UNID	UNID	NL06lu	ARSI		
14189		2013	04	27	<0251>	0251	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
14190.0	5	2013	4	28	0820		G7DF				HF MANPACK DAILY, CONTINUOUS FSK RTTY Idling only	QG52xi	WIA	
14192.0	1	2013	4	20	1225		F1B	200			HF Man Pack S1 8-PSK	QG52xi	WIA	
14192		2013	04	17	<1340>	1340	F1B	200	?	Unid	HF Man Pack S1 8-PSK	RF72LQ	NZART	ZL1BAD
14192		2013	04	30	<1230>	1230	F1B	200	?	Unid	HF Man Pack S1 8-PSK	RF72LQ	NZART	ZL1BAD
14196		2013	04	27	<0254>	0254	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
14201		2013	04	27	<0538>	0538	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
14202		2013	04	28	<0407>	0407	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE



14204		2013	4	19	<0240-0250>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM HF Man Pack S2	MK82	ARSI	
14210		2013	04	28	<0357>	0357	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
14215.0	5	2013	4	24	0805		G7D				SUBCARRIERS ON APPROX 80 HZ CENTRES	QG52xi	WIA	
14220		2013	04	03	<2000>	2000	F1B	200	?	Unid	RTTY Idling only	RF72LQ	NZART	ZL1BAD
14220		2013	04	06	<1930>	1930	F1B	200	?	Unid	RTTY Idling only	RF72LQ	NZART	ZL1BAD
14220		2013	04	14	<2150>	2150	F1B	200	?	Unid	FSK RTTY Idle	RF72LQ	NZART	ZL1BAD
14220		2013	04	15	<1950>	1950	F1B	200	?	Unid	RSK RTTY Idle	RF72LQ	NZART	ZL1BAD
14220		2013	04	16	<0415>	0415	F1B	200	?	Unid	RTTY Idle	RF72LQ	NZART	ZL1BAD
14221.0	1	2013	4	9	2020		F1B	200			DAILY, CONTINUOUS	QG52xi	WIA	
14226.0	1	2013	4	20	0840		F1B	250			CONTINUOUS	QG52xi	WIA	
14228.1	3	2013	4	19	0950		J3E/U				ASIAN	QG52xi	WIA	
14230	20	2013	04	DY	HX	HX	P0N		?	Unid	OTHER Varying length pulses & variable timing between - usually 80 PPS HF Man Pack - 8	RF72LQ	NZART	ZL1BAD
14233		2013	04	DY	HX	HX	G7DE		?	Unid	PSK	RF72LQ	NZART	ZL1BAD
14233		2013	04	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack - 1 PSK	RF72LQ	NZART	ZL1BAD
14233		2013	04	DY	HX	HX	G7DE		?	Unid	HF Man Pack - 6 PSK	RF72LQ	NZART	ZL1BAD
14240.0		2013	4	3	0930		A1A				LETTER CIPHER, SOME CYRILLIC	QG52xi	WIA	
14241.0	5	2013	4	4	1030		G7D				12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
14252.0	3	2013	4	30	0835		J3E/U				ASIAN	QG52xi	WIA	
14253.0	1	2013	4	18	0935		F1B	250			DAILY, CONTINUOUS	QG52xi	WIA	
14255.0	5	2013	4	2	0900		G7D				AT LEAST 12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
14260		2013	04	27	<0257>	0257	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
14262.2	3	2013	4	23	0905		J3E/U		PHL		TAGALOG, FISH BOATS	QG52xi	WIA	
14272		2013	04	28	<0416>	0416	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
14285.8	3	2013	4	29	0920		J3E/U				ASIAN	QG52xi	WIA	
14286		2013	04	27	<0241>	0241	G7DF	330	?	Unid	HF Man Pack S2	RF73MF	NZART	ZL1GWE

14289		2013	04	06	<0856>	0856	J3E/L		?	Unid	8-PSK Non Amateur Asian speaker Language unidentified ASIAN, UNUSUAL HUM ON 1	RE54HF	NZART	ZL4IV
14289.8	3	2013	4	19	0950		J3E/L				PARTICIPANT	QG52xi	WIA	
14290.0	5	2013	4	29	2020		G7DF				HF MANPACK DAILY, ASIAN, FAMILY NET, FISH BOATS, ENGINE NOISE	QG52xi	WIA	
14290.0	3	2013	4	6	0850		J3E/L				12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	
14293.0	5	2013	4	6	0850		G7D				HF Man Pack S2	QG52xi	WIA	
14293		2013	04	27	<0538>	0538	G7DF	330	?	Unid	6-PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
14298		2013	04	28	<0617>	0617	G7DF	330	?	Unid	6-PSK OTHR, CONTINUOUS MOSTLY NON- ENGLISH CHARACTERS	RF73MF	NZART	ZL1GWE
14300.0	20	2013	4	25	0645		P0N				HF Man Pack S2	QG52xi	WIA	
14300.0		2013	4	6	0915		A1A				6-PSK HF Man Pack S2	QG52xi	WIA	
14305		2013	04	28	<0400>	0400	G7DF	330	?	Unid	6-PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
14308		2013	04	28	<0400>	0400	G7DF	330	?	Unid	6-PSK HF Man Pack S1	RF73MF	NZART	ZL1GWE
14308		2013	04	28	<0619>	0619	G7DF	330	?	Unid	8_PSK	RF73MF	NZART	ZL1GWE
14308.7	3	2013	4	5	0830		J3E/U				ASIAN 8 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	
14310.0	5	2013	4	15	0810		G7D				ASIAN, FAMILY NET	QG52xi	WIA	
14310.0	3	2013	4	1	1000		J3E/L				APPROX 20 SUBCARRIERS ON 100 HZ INTERVALS	QG52xi	WIA	
14315.0	3	2013	4	15	1225		G7D				DAILY, ASIAN, FAMILY NET	QG52xi	WIA	
14315.8	3	2013	4	2	0900		J3E/U				HF Man Pack S2	QG52xi	WIA	
14316		2013	04	28	<0418>	0418	G7DF	330	?	Unid	6-PSK ASIAN FISH BOATS, ENGINE NOISE	RF73MF	NZART	ZL1GWE
14320.3	3	2013	4	30	0815		J3E/U				ASIAN, FAMILY NET, KIDS TALKING TO DADDY	QG52xi	WIA	
14323.0	3	2013	4	18	0935		J3E/L					QG52xi	WIA	

14330.4	3	2013	4	6	0850		J3E/L			ASIAN, FAMILY NET, KIDS TALKING TO DADDY	QG52xi	WIA		
14330.7	3	2013	4	30	0740		J3E/U			ASIAN FISH BOATS, ENGINE NOISE	QG52xi	WIA		
14335.0	3	2013	4	6	0850		J3E/U			DAILY, ASIAN	QG52xi	WIA		
14337.9	3	2013	4	23	0905		J3E/U			ASIAN	QG52xi	WIA		
14339.0	5	2013	4	5	0835		G7D			100'S OF SUBCARRIERS ON 36 HZ INTERVALS ALE BURSTS.	QG52xi	WIA		
14344.0	3	2013	4	20	0845		G7D			MANY SUBCARRIERS, STARTS WITH BEEP	QG52xi	WIA		
14346.0	3	2013	4	25	0850		J3E/U			ASIAN ALE BURSTS.	QG52xi	WIA		
14348.0	5	2013	4	25	0850		G6D			MANY SUBCARRIERS, STARTS WITH BEEP	QG52xi	WIA		
18062	24	2013	04	07	<0420>	0420	P0N		?	Unid	S9	RF73J	NZART	ZL1TPH
18070.0	100	2013	4	7	0410		P0N				OTHER, BURSTS	QG52xi	WIA	
18080.0	5	2013	4	30	0800		G7DF				HF MANPACK	QG52xi	WIA	
18080.0	20	2013	4	18	0955		P0N				OTHER, CONTINUOUS	QG52xi	WIA	
18100		2013	04	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack - 1 PSK	RF72LQ	NZART	ZL1BAD
18100	10	2013	04	01	<0600>	0600	P0N		?	Unid	OTHER 67 pps 3.8 seconds bursts and 26 second gaps	RF80HL	NZART	ZL2IFB
18130.0	5	2013	4	25	0840		G7DF				HF MANPACK	QG52xi	WIA	
20484.5	867	2013	04	01	<0150>	0150-0205	P0N	330	?	Unid	OTHER 45-46 pps S9+10dBm Wide band	RF73MF	NZART	ZL1GWE
20950.0	100	2013	4	4	1010		P0N				OTHER, BURSTS	QG52xi	WIA	
20970.0	100	2013	4	1	0050		P0N				OTHER, BURSTS	QG52xi	WIA	
20980.0	50	2013	4	25	0830		P0N				OTHER, BURSTS	QG52xi	WIA	
20980.0	50	2013	4	20	2335		VXX				CODAR SWEEPS, TOP END IN 15 MTR AMATEUR BAND	QG52xi	WIA	
21000.0	3	2013	4	28	0750		J3E/U				ASIAN	QG52xi	WIA	
21000.0	5	2013	4	1	0555		G7DF				HF MANPACK	QG52xi	WIA	
21001		2013	04	01	<0128>	0128	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE

Call Sign	Month	Day	Time	Frequency	Mode	Power	Band	Bandwidth	Modulation	Service	Notes	Remarks	Agency	Location
21001.5	1	2013	4	2	0800		F1B	150			ENCRIPTION INFO FOR VOCODER SSB BELOW BAND	QG52xi	WIA	
21002		2013	04	01	<0442>	0442	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21016		2013	04	28	<0025>	0025	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21031		2013	4	19	<0630- 0645>		XXX			UNID	STRONG OTHR FROM 21016 TO 21046 Khz SPREAD	MK82	ARSI	
21039		2013	04	01	<0442>	0442	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21040.0	5	2013	4	29	0905		G7DF				HF MANPACK	QG52xi	WIA	
21041		2013	04	01	<0244>	0244	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21048		2013	04	28	<0017>	0017	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21050.0	3	2013	4	25	0240		J3E/U				ASIAN HF MANPACK, HEARD MANY TIMES	QG52xi	WIA	
21050.0	5	2013	4	11	2350		G7DF				ASIAN	QG52xi	WIA	
21055.6	3	2013	4	7	0940		J3E/L				SPANISH	QG52xi	WIA	
21057.0	3	2013	4	13	0210		J3E/U				LANGUAGE	QG52xi	WIA	
21057.0		2013	4	8	1030		A1A				NUMBER CIPHER	QG52xi	WIA	
21060.0	5	2013	4	4	0745		G7DF				DAILY, HF MANPACK	QG52xi	WIA	
21065.0	5	2013	4	26	0030		G7DF				HF MANPACK	QG52xi	WIA	
21080		2013	04	28	<0046>	0046	G7Df	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21084		2013	04	27	<0626>	0626	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21084		2013	04	28	<0231>	0231	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21085.0	5	2013	4	11	2050		G7DF				HF MANPACK	QG52xi	WIA	
21088		2013	04	28	<0028>	0028	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21090.2	3	2013	4	3	0940		J3E/L				ASIAN, FAMILY NET	QG52xi	WIA	
21100		2013	04	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack - 1 PSK	RF72LQ	NZART	ZL1BAD
21100	50	2013	04	27	<0511>	0511	P0N	330	IRN	Unid	OTHR EP S2 310- 847 pps	RF73MF	NZART	ZL1GWE
21102.9	3	2013	4	11	0625		J3E/U				ASIAN	QG52xi	WIA	
21103		2013	04	01	<0246>	0246	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21105.0	5	2013	4	22	0855		G7DF				HF MANPACK	QG52xi	WIA	
21105.1	3	2013	4	22	0855		J3E/L				ASIAN	QG52xi	WIA	
21105.8	3	2013	4	13	0930		J3E/U				DAILY, ASIAN	QG52xi	WIA	
21109.5	21	2013	04	21	<0512>	0521	P0N	330	CYP	Unid	OTHR S5 50 pps Cyprus	RF73MF	NZART	ZL1GWE

21110.0	30	2013	4	13	0715		P0N				50 PPS OTHR	QG52xi	WIA	
21111.1	3	2013	4	18	0940		J3E/U				DAILY, ASIAN HF Man Pack S2	QG52xi	WIA	
21115		2013	04	28	<0707>	0707	G7DF	330	?	Unid	8-PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
21117		2013	04	28	<0021>	0021	G7DF	330	?	Unid	8-PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
21118.9	3	2013	4	7	0940		J3E/U				ASIAN HF Man Pack S1	QG52xi	WIA	
21124		2013	04	28	<0025>	0025	G7DF	330	?	Unid	8-PSK HF MANPACK	RF73MF	NZART	ZL1GWE
21130.0	5	2013	4	28	0120		G7DF				HF Man Pack S1	QG52xi	WIA	
21131		2013	04	28	<0433>	0433	G7DF	330	?	Unid	8-PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
21133		2013	04	28	<0020>	0020	G7DF	330	?	Unid	8-PSK ASIAN	RF73MF	NZART	ZL1GWE
21135.9	3	2013	4	25	0835		J3E/U				OTHDR 47 pps S5-6	QG52xi	WIA	
21144.5	23	2013	04	01	<0150>	0150	P0N	330	?	Unid	OTHDR 47 pps S5-6	RF73MF	NZART	ZL1GWE
21144.5		2013	04	01	<0150>	0150	P0N	330	?	Unid	HF Man Pack S2	RF73MF	NZART	ZL1GWE
21157		2013	04	28	<0021>	0021	G7DF	330	?	Unid	8-PSK HF MANPACK	RF73MF	NZART	ZL1GWE
21170.0	5	2013	4	28	0120		G7DF				OTHDR, SHORT BURSTS	QG52xi	WIA	
21170.0	10	2013	4	28	0120		P0N				HF Man Pack S4	RF73MF	NZART	ZL1GWE
21171		2013	04	01	<0241>	0241	G7DF	330	?	Unid	8_PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
21177		2013	04	28	<0046>	0046	G7DF	330	?	Unid	8-PSK HF Man Pack S2	RF73Mf	NZART	ZL1GWE
21188		2013	04	28	<0028>	0028	G7DF	330	?	Unid	8_PSK OTHDR,	RF73MF	NZART	ZL1GWE
21190.0	20	2013	4	16	0750		P0N				CONTINUOUS HF Man Pack S1	QG52xi	WIA	
21200		2013	04	01	<0243>	0243	G7DF	330	?	Unid	8-PSK HF Man Pack S1	RF73MF	NZART	ZL1GWE
21205		2013	04	01	<0245>	0245	G7DF	330	?	Unid	8-PSK FAST CODAR	RF73MF	NZART	ZL1GWE
21210.0	20	2013	4	21	0605		VXX				SWEEPS	QG52xi	WIA	
21210	20	2013	04	28	<0419>	0419	VXX	330	?	Unid	CODAR 7 pps S4 18 seconds long	RF73MF	NZART	ZL1GWE
21211		2013	04	28	<0346>	0346	G7DF	330	?	Unid	8_PSK HF Man Pack S2	RF73MF	NZART	ZL1GWE
21215		2013	04	28	<0030>	0030	G7DF	330	?	Unid	8_PSK HF Man Pack S1	RF73MF	NZART	ZL1GWE
21216		2013	04	28	<0025>	0025	G7DF	330	?	Unid	8-PSK HF Man Pack S1	RF73MF	NZART	ZL1GWE
21218		2013	04	01	<0249>	0249	G7DF	330	?	Unid	8-PSK OTHDR, SHORT BURSTS, SLOW	RF73MF	NZART	ZL1GWE
21220.0	10	2013	4	2	0750		P0N				PULSE RATE	QG52xi	WIA	

21220	20	2013	04	DY	HX	HX	P0N		AUS	Unid	OTHR Varying length pulses & varying timing between pulses. Usually 80 PPS	RF72LQ	NZART	ZL1BAD
21227		2013	04	01	<0245>	0245	G7DF	330		Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21227		2013	04	30	<0703>	0703	G7DF	330	?	Unid	HF Man Pack S1 6-PSK	RF73MF	NZART	ZL1GWE
21230.0	10	2013	4	11	0625		P0N				OTHR CODAR 2.72 pps S2 18 seconds	QG52xi	WIA	
21230	20	2013	04	27	<0504>	0504	VXX	330	?	Unid	long HF Man Pack S2	RF73MF	NZART	ZL1GWE
21235		2013	04	28	<0030>	0030	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
21244	20	2013	04	28	<0345>	0345	VXX	330	?	Unid	CODAR 7 pps S4 18 seconds long	RF73MF	NZART	ZL1GWE
21246		2013	04	28	<0346>	0346	VXX	330	?	Unid	CODAR 9 pps S4 18 seconds long	Rf73MF	NZART	ZL1GWE
21250.0	20	2013	4	7	0000		VXX				FAST CODAR SWEEPS	QG52xi	WIA	
21250	20	2013	04	DY	HX	HX	P0N		AUS	Unid	OTHR Varying length pulses & timing between pulses - suspected JORN	RF72LQ	NZART	ZL1BAD
21252.0	5	2013	4	16	0750		G7D				8 SUBCARRIERS ON 300 HZ INTERVALS Chinese 4+4 DQPSK encrypted communications	QG52xi	WIA	
21252		2013	04	28	<0712>	0712-0752	J7D	330	?	Unid	S5 see 21363 too Chinese 4+4 DQPSK 75 baud Diplomatic Communications	RF73MF	NZART	ZL1GWE
21253		2013	04	21	<0712>	0712	J7D 75	330	CHN	Unid	S4 OTHR, SHORT BURSTS	RF73MF	NZART	ZL1GWE
21260.0	10	2013	4	18	0945		P0N				FAST CODAR SWEEPS	QG52xi	WIA	
21260.0	20	2013	4	4	0720		VXX				HF Man Pack S1	QG52xi	WIA	
21262		2013	04	01	<0442>	0442	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
21264		2013	04	01	<0242>	0242	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21265		2013	04	27	<0501>	0510	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21270.0	20	2013	4	30	0930		P0N				OTHR, CONTINUOUS	QG52xi	WIA	
21270	22	2013	04	21	<0512>	0512	P0N	330	CYP	Unid	OTHR S5 50 pps Cyprus continuous	RF73MF	NZART	ZL1GWE

21272	20	2013	04	27	<0553>	0553	VXX	330	?	Unid	CODAR 10.4 pps S3 18 seconds long HF Man Pack S2	RF73MF	NZART	ZL1GWE
21274		2013	04	28	<0036>	0036	G7DF	330	?	Unid	8-PSK OTHR S4-S5 variable rate	RF73MF	NZART	ZL1GWE
21274.5	19	2013	04	21	<0652>	0652	P0N	330	AUS	Unid	JORN 28, 39 and 42 pps HF Man Pack S2	RF73MF	NZART	ZL1GWE
21278		2013	04	27	<0643>	0643	G7DF	330	?	Unid	8-PSK HF Man Pack S2	RF73Mf	NZART	ZL1GWE
21284		2013	04	27	<0643>	0643	G7DF	330	?	Unid	8-PSK HF Man Pack - 8	RF73MF	NZART	ZL1GWE
21285		2013	04	DY	HX	HX	G7DE		?	Unid	PSK HF Man Pack S2	RF72LQ	NZART	ZL1BAD
21285		2013	04	28	<0020>	00230	G7DF	330	?	Unid	8-PSK HF Man Pack S1	RF73MF	NZART	ZL1GWE
21287		2013	04	01	<0442>	0442	G7DF	330	?	Unid	8-PSK HF Man Pack S1	RF73MF	NZART	ZL1GWE
21289		2013	04	01	<0442>	0442	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
21290.0	20	2013	4	21	0945	0645					OTHR, BURSTS	QG52xi	WIA	
21290.0	5	2013	4	6	0455		G7DF				HF MANPACK 8 SUBCARRIERS	QG52xi	WIA	
21291.0	5	2013	4	1	0335		G7D				ON 300 HZ INTERVALS HF Man Pack S1	QG52xi	WIA	
21291		2013	04	27	<0502>	0502	G7DF	330	?	Unid	8-PSK 4 SUBCARRIERS ON 300 HZ INTERVALS	RF73MF	NZART	ZL1GWE
21293.0	5	2013	4	5	0815		G7D				OTHR bursts, signature tone, strong S9 JORN?	QG52xi	WIA	
21293	7	2013	04	02	<0334>	0334- 0358	P0N		?	Unid	OTHR bursts, signature tone, strong S9 JORN?	RF73IJ	NZART	ZL1TPH
21293	7	2013	04	02	<0434>	0434- 0436	P0N		?	Unid	Chinese 4+4 DQPSK encrypted S4 Diplomatic	RF73IJ	NZART	ZL1TPH
21293		2013	04	06	<0250>	0250	J7D	330	CHN	Unid	Communications HF Man Pack S1	RF73MF	NZART	ZL1GWE
21296		2013	04	01	<0245>	0245	G7DF	330	?	Unid	8-PSK OTHR, SHORT BURSTS	RF73MF	NZART	ZL1GWE
21300.0	10	2013	4	2	1015		P0N				OTHR short bursts	QG52xi	WIA	
21301.5	17	2013	04	15	<0509>	0509- 0516	P0N		Unid	?	S1	RF73IJ	NZART	ZL1TPH
21304		2013	04	28	<0038>	0038	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21304		2013	04	30	<0709>	0709	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21309.0	3	2013	4	21	0625		J3E/U				ASIAN, FISH BOATS	QG52xi	WIA	

21310.0	10	2013	4	21	0630		P0N												OTHR, SHORT BURSTS, SLOW PULSE RATE	QG52xi	WIA	
21315		2013	04	28	<0231>	0231	G7DF	330	?	Unid									HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21317.5	25	2013	04	13	<0520>	0520	P0N			Unid	?								OTHR short bursts S9	RF73IJ	NZART	ZL1TPH
21324	12	2013	04	25	<0350>	0350-0405	P0N			Unid	?								OTHR short burst S8	RF73IJ	NZART	ZL1TPH
21325		2013	04	28	<0024>	0024	G7DF	330	?	Unid									HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21332		2013	04	28	<0641>	0641	G7DF	330	?	Unid									HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21338	14	2013	04	01	<0653>	0653-0735	P0N			Unid	?								OTHR short burst S8 (Repetitive)	RF73IJ	NZART	ZL1TPH
21340.0	10	2013	4	18	0945		P0N												OTHR, SHORT BURSTS	QG52xi	WIA	
21341	20	2013	04	01	<0500>	0500-0518	P0N			Unid	?								OTHR short burst S8 (Repetitive)	RF73IJ	NZART	ZL1TPH
21341		2013	04	27	<0548>	0548	G7DF	330	?	Unid									HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21345		2013	04	28	<0020>	0020	G7DF	330	?	Unid									HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21346	23.5	2013	04	01	<0436>	0436	P0N	330	?	Unid									OTHR 47 pps S8	RF73MF	NZART	ZL1GWE
21349		2013	04	30	<0708>	0708	G7DF	330	?	Unid									HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21350.0	20	2013	4	24	0815		P0N												OTHR, CONTINUOUS	QG52xi	WIA	
21350		2013	04	27	<0458>	0458>	G7DF	339	?	Unid									HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21352		2013	04	28	<0704>	0704	G7DF	330	?	Unid									HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21355		2013	04	30	<0703>	0703	G7DF	330	?	Unid									HF Man Pack S1 6-PSK	RF73MF	NZART	ZL1GWE
21359		2013	04	27	<0458>	0458	G7DF	330	?	Unid									HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21362.0	4	2013	4	5	0815		G7D												4 PAIRS OF SUBCARRIERS ON 200 HZ CENTRES	QG52xi	WIA	
21363		2013	04	27	<0718>	0718-0725	J7D 75	330	CHN	Unid									Chinese 4+4 DQPSK encrypted S4 QSB	RF73MF	NZART	ZL1GWE
21363		2013	04	28	<0633>	0633-0707	J7D 75	330	CHN	Unid									Chinese 4+4 DQPSK encrypted S2 QSB	RF73MF	NZART	ZL1GWE
21363		2013	04	28	<0706>	0706	G7DF	330	?	Unid									Diplomatic communications HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE



21363		2013	04	30	<0647>	0647-0657	J7D 75	330	?	Unid	Chinese 4+4 DQPSK encrypted S2 QSB Diplomatic communications Chinese 4+4 DQPSK S2 encrypted Diplomatic communications	RF73MFZL1GWE	NZART	ZL1GWE
21363		2013	04	28	<0633>	0633	J7D 75	330	CHN	Unid	4 PAIRS OF SUBCARRIERS ON 200 HZ CENTRES HF Man Pack S2	RF73MF	NZART	ZL1GWE
21364.0	4	2013	4	2	0805		G7D				HF Man Pack S1	QG52xi	WIA	
21365		2013	04	28	<0704>	0704	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
21370		2013	04	01	<0241>	0241	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
21370	64	2013	04	01	<0445>	0445	P0N	330	?	Unid	OTHER, BURSTS	RF73MF	NZART	ZL1GWE
21380.0	20	2013	4	11	0945		P0N				OTHER, BURSTS	QG52xi	WIA	
21380.0	5	2013	4	7	0000		G7DF				HF MANPACK	QG52xi	WIA	
21385.0	20	2013	4	24	0820		P0N				OTHER, CONTINUOUS OTHER 46 pps S7 5 second bursts	QG52xi	WIA	
21387	15.3	2013	04	01	<0325>	0325	P0N	330	?	Unid	ASIAN	RF73MF	NZART	ZL1GWE
21387.5	6	2013	4	10	0920		A3E				OTHER, BURSTS	QG52xi	WIA	
21390.0	20	2013	4	2	0800		P0N				OTHER, BURSTS	QG52xi	WIA	
21404		2013	04	27	<0552>	0552	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21408		2013	04	01	<0442>	0442	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21408		2013	04	30	<0709>	0709	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21410.0	20	2013	4	1	0550		P0N				OTHER, BURSTS	QG52xi	WIA	
21417		2013	04	27	<0458>	0458	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21418.5	99	2013	04	27	<0729>	0729	P0N	330	?	Unid	OTHER 66 pps S9 4 second bursts	RF73MF	NZART	ZL1GWE
21420.0	20	2013	4	27	0745		P0N				OTHER, BURSTS	QG52xi	WIA	
21420		2013	04	28	<0021>	0021	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
21422		2013	04	30	<0657>	0657	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21422.1	3	2013	4	3	0945		J3E/L				ASIAN	QG52xi	WIA	
21430.0	10	2013	4	11	0625		P0N				OTHER	QG52xi	WIA	
21434		2013	04	01	<0243>	0243	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
21438.0		2013	4	27	0745		A1A				MIXED NUMBER/LETTER CIPHER HF Man Pack S2	QG52xi	WIA	
21440		2013	04	28	<0231>	0231	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
21441		2013	04	30	<0706>	0706	G7DF	330	?	Unid	HF Man Pack S1	RF73MF	NZART	ZL1GWE

21448	12.5	2013	04	27	<0311>	0311	P0N		330	?	Und	8-PSK OTHR 49 pps 5.5 seconds transmissions	RF73MF	NZART	ZL1GWE
21450.0	20	2013	4	27	0315		P0N					OTHER, BURSTS	QG52xi	WIA	
21550	90.5	2013	04	28	<0327>	0327- 0339	P0N		330	?	Unid	OTHR 48 pps S6 6 second bursts OTHR, SPILLS INTO AMATEUR ALLOCATION	RF73MF	NZART	ZL1GWE
24850.0	100	2013	4	26	0805		P0N					MIL 188-141A ALE	QG52xi	WIA	
24895.0	3	2013	4	12	1000		F1B	125				ASIAN	QG52xi	WIA	
24900.0	6	2013	4	26	0800		A3E					ASIAN	QG52xi	WIA	
24900		2013	04	DY	HX	HX	G7DE/F			?	Unid	HF Man Pack - 1 PSK	RF72LQ	NZART	ZL1BAD
24905.0	6	2013	4	13	0830		A3E					ASIAN	QG52xi	WIA	
24910.0	5	2013	4	24	2230		G7DF					HF MANPACK	QG52xi	WIA	
24912.5	6	2013	4	14	0915		F3E					ASIAN	QG52xi	WIA	
24915.0	6	2013	4	4	0715		A3E					ASIAN	QG52xi	WIA	
24920.0	5	2013	4	20	0040		G7DF					HF MANPACK	QG52xi	WIA	
24925.0	6	2013	4	2	0840		A3E					ASIAN	QG52xi	WIA	
24930.0	5	2013	4	25	0005		G7DF					HF MANPACK DOZENS OF SUBCARRIERS ON 100 HZ INTERVALS	QG52xi	WIA	
24930.0	5	2013	4	12	1000		G7D					ASIAN	QG52xi	WIA	
24935.0	6	2013	4	6	2355		A3E					ASIAN	QG52xi	WIA	
24940.7	3	2013	4	26	0800		J3E/L					ASIAN	QG52xi	WIA	
24948	30	2013	04	06	<0603>	0603- 0709	P0N			?	Unid	OTHR continuous S9	RF73IJ	NZART	ZL1TPH
24950.0	6	2013	4	28	0745		A3E					ASIAN	QG52xi	WIA	
24950.0	100	2013	4	5	0805		VXX					CODAR SWEEPS	QG52xi	WIA	
24955.0	6	2013	4	6	2350		A3E					ASIAN	QG52xi	WIA	
24960.0	20	2013	4	6	0600		P0N					OTHR	QG52xi	WIA	
24962.5	6	2013	4	28	0745		A3E					ASIAN	QG52xi	WIA	
24965.0	6	2013	4	2	0835		A3E					ASIAN	QG52xi	WIA	
24975.0	6	2013	4	1	0140		A3E					ASIAN	QG52xi	WIA	
24985.0	6	2013	4	6	0040		A3E					ASIAN	QG52xi	WIA	
24987.5	6	2013	4	24	2230		A3E					ASIAN	QG52xi	WIA	
24990.0	5	2013	4	24	2230		G7DF					HF MANPACK	QG52xi	WIA	
28000.0	6	2013	4	1	0100		A3E					ASIAN	QG52xi	WIA	
28000		2013	04	DY	HX	HX	G7DE/F			?	Unid	HF Man Pack - 1 PSK	RF72LQ	NZART	ZL1BAD
28005.0	6	2013	4	1	0100		A3E					ASIAN	QG52xi	WIA	
28005.6	6	2013	4	5	2230		A3E					SPANISH LANGUAGE	QG52xi	WIA	
28012.5	6	2013	4	1	0100		F3E					ASIAN	QG52xi	WIA	
28015.0	6	2013	4	1	0100		A3E					ASIAN	QG52xi	WIA	
28025.0	6	2013	4	1	0100		A3E					ASIAN	QG52xi	WIA	

28032.0	6	2013	4	4	0940		A3E				ASIAN	QG52xi	WIA		
28033.0	6	2013	4	13	2110		A3E				SPANISH	QG52xi	WIA		
28034		2013	04	28	<0051>	0051	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE	
28035.0	6	2013	4	1	0100		A3E				ASIAN	QG52xi	WIA		
28037.5	6	2013	4	10	0720		A3E				ASIAN	QG52xi	WIA		
28042.0	6	2013	4	13	2110		A3E				SPANISH	QG52xi	WIA		
28042.0	6	2013	4	11	2330		A3E				LANGUAGE	QG52xi	WIA		
28045.0	6	2013	4	13	2105		A3E				ASIAN	QG52xi	WIA		
28045.0	5	2013	4	11	2315		G7DF				ECHO MIKES, ROGER BEEPS	QG52xi	WIA		
28045.4	3	2013	4	5	2230		J3E/U				HF MANPACK	QG52xi	WIA		
28050.0	100	2013	4	13	0720		P0N				SPANISH	QG52xi	WIA		
28050.0	6	2013	4	2	0810		A3E				LANGUAGE	QG52xi	WIA		
28055.0	5	2013	4	12	0500		G7DF				LIKE MCW ONLY	QG52xi	WIA		
28055.0	6	2013	4	1	0100		A3E				VERY BROAD	QG52xi	WIA		
28055		2013	04	28	<0049>	0049	G7DF	330	?	Unid	ASIAN	QG52xi	WIA		
28060.0	5	2013	4	11	0115		G7DF				HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
28062.5	6	2013	4	21	0035		A3E				HF MANPACK	QG52xi	WIA		
28065.0	5	2013	4	6	0005		G7DF				ASIAN	QG52xi	WIA		
28065.0	6	2013	4	1	0100		A3E				HF MANPACK	QG52xi	WIA		
28067.5	6	2013	4	10	0720		A3E				ASIAN	QG52xi	WIA		
28070.0	6	2013	4	13	2330		A3E				ASIAN	QG52xi	WIA		
28075.0	6	2013	4	13	2110		A3E				DAILY, SPANISH	QG52xi	WIA		
28075.0	6	2013	4	1	0105		F3E				LANGUAGE, ROGER BEEPS	QG52xi	WIA		
28080.0	100	2013	4	12	0420		P0N				ASIAN	QG52xi	WIA		
28085.0	6	2013	4	1	0105		A3E				LIKE MCW ONLY	QG52xi	WIA		
28087.5	67	2013	04	13	<0724>	0724	P0N	330	IRN	Unid	OTHER EP 304-872 pps S2 second bursts	RF73MF	NZART	ZL1GWE	
28090.0	6	2013	4	21	0035		A3E				VERY BROAD	QG52xi	WIA		
28095.0	6	2013	4	28	0655		A3E				ASIAN	QG52xi	WIA		
28100.0	100	2013	4	28	0725		P0N				LIKE MCW ONLY	QG52xi	WIA		
28100.0	6	2013	4	24	2200		A3E				VERY BROAD	QG52xi	WIA		
28100.0	6	2013	4	12	0425		F3E				SPANISH	QG52xi	WIA		
28105.0	6	2013	4	1	0105		A3E				LANGUAGE	QG52xi	WIA		
28108.0	6	2013	4	15	0940		A3E				ASIAN	QG52xi	WIA		
28110.0	6	2013	4	28	0655		A3E				ASIAN	QG52xi	WIA		

28115.0	5	2013	4	26	0735	G7DF					HF MANPACK	QG52xi	WIA		
28115.0	6	2013	4	2	0810	A3E					ASIAN	QG52xi	WIA		
28122.0	6	2013	4	2	0810	A3E					ASIAN	QG52xi	WIA		
28125.0	6	2013	4	24	2200	A3E					SPANISH LANGUAGE	QG52xi	WIA		
28125.0	6	2013	4	1	0105	F3E					ASIAN ON-OFF CONTINUOUS. NOT CW	QG52xi	WIA		
28135.0		2013	4	9	1020	A1A					ASIAN	QG52xi	WIA		
28135.0	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28137.5	6	2013	4	24	2335	F3E					ASIAN	QG52xi	WIA		
28140.0	6	2013	4	28	0700	A3E					ASIAN	QG52xi	WIA		
28145.0	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28150.0	6	2013	4	4	0645	F3E					ASIAN ON-OFF CONTINUOUS. NOT CW	QG52xi	WIA		
28155.0		2013	4	11	0900	A1A					ASIAN	QG52xi	WIA		
28155.0	5	2013	4	6	0010	G7DF					HF MANPACK	QG52xi	WIA		
28155.0	6	2013	4	4	0645	A3E					ASIAN	QG52xi	WIA		
28162.5	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28165.0	5	2013	4	25	2240	G7DF					HF MANPACK	QG52xi	WIA		
28165.0	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28170.0	6	2013	4	2	0810	A3E					ASIAN	QG52xi	WIA		
28170		2013	04	27	<0522>	0522	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
28175.0	6	2013	4	24	2200	A3E					SPANISH LANGUAGE	QG52xi	WIA		
28175.0	6	2013	4	1	0105	F3E					ASIAN	QG52xi	WIA		
28175		2013	04	28	<0039>	0039	F3E	330	?	Unid	Non Amateurs S4 Musical Rave up	RF73MF	NZART	ZL1GWE	
28185.0	5	2013	4	27	2300	G7DF					HF MANPACK	QG52xi	WIA		
28185.0	6	2013	4	1	0105	F3E					ASIAN	QG52xi	WIA		
28187.5	6	2013	4	25	0810	A3E					ASIAN	QG52xi	WIA		
28187.5	1	2013	4	10	0720	F1B					PICCOLO-LIKE	QG52xi	WIA		
28190.0	6	2013	4	28	0730	A3E					ASIAN	QG52xi	WIA		
28195.0	5	2013	4	5	0745	G7DF					HF MANPACK	QG52xi	WIA		
28195.0	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28200.0	5	2013	4	13	0105	G7DF					HF MANPACK	QG52xi	WIA		
28200.0	6	2013	4	10	0725	A3E					ASIAN	QG52xi	WIA		
28205.0	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28206		2013	04	28	<0625>	0625	G7DF	330	?	Unid	HF Man Pack S1 6-PSK	RF73MF	NZART	ZL1GWE	
28210.0	6	2013	4	28	0700	A3E					ASIAN	QG52xi	WIA		
28212.5	6	2013	4	16	0725	A3E					ASIAN	QG52xi	WIA		
28215.0	6	2013	4	1	0105	A3E					ASIAN	QG52xi	WIA		
28217		2013	04	27	<0522>	0522	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE	
28225.0	5	2013	4	21	0020	G7DF					HF MANPACK	QG52xi	WIA		

28225.0	6	2013	4	1	0105	F3E				ASIAN	QG52xi	WIA		
28230.0	6	2013	4	16	0725	A3E				ASIAN	QG52xi	WIA		
28230.0	100	2013	4	15	0950	P0N				LIKE MCW ONLY				
28235.0	5	2013	4	25	2220	G7DF				VERY BROAD	QG52xi	WIA		
28235.0	6	2013	4	1	0110	A3E				HF MANPACK	QG52xi	WIA		
28237.5	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		
28238		2013	04	28	<0002>	0002	G7DF	330	?	Unid	HF Man Pack S2	RF73Mf	NZART	ZL1GWE
28245.0	6	2013	4	1	0110	A3E				8-PSK	QG52xi	WIA		
28248		2013	04	28	<0046>	0046	G7DF	330	?	Unid	HF Man Pack S2	RF73MF	NZART	ZL1GWE
28250.0	6	2013	4	21	0025	A3E				8_PSK	QG52xi	WIA		
28252.7		2013	4	4	0945	A1A				ASIAN				
28255.0	6	2013	4	1	0110	A3E				DRIFTNET	QG52xi	WIA		
28258.0	6	2013	4	25	0810	A3E				BEACON	QG52xi	WIA		
28260.0	6	2013	4	9	1020	A3E				ASIAN	QG52xi	WIA		
28262.5	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		
28265.0	6	2013	4	24	2200	A3E				SPANISH				
28265.0	6	2013	4	1	0110	A3E				LANGUAGE	QG52xi	WIA		
28275.0	6	2013	4	25	2210	A3E				ASIAN	QG52xi	WIA		
28275.0	6	2013	4	1	0110	A3E				SPANISH				
28280.0	5	2013	4	2	0815	G7DF				LANGUAGE	QG52xi	WIA		
28285.0	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		
28287.5	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		
28290.0	6	2013	4	12	0430	A3E				ASIAN	QG52xi	WIA		
28295.0	6	2013	4	19	0840	F3E			RUS	TAXI DISPATCH	QG52xi	WIA		
28295.0	5	2013	4	21	0040	G7DF				HF MANPACK	QG52xi	WIA		
28295.0	6	2013	4	1	0110	F3E				ASIAN	QG52xi	WIA		
28300.0	6	2013	4	5	0745	A3E				ASIAN	QG52xi	WIA		
28305.0	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		
28315.0	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		
28320.0	6	2013	4	5	0745	J3E/U				ASIAN	QG52xi	WIA		
28321.5	59	2013	04	27	<0631>	0631	P0N	330	IRN	Unid	OTHR Iranian EP			
28325.0	6	2013	4	1	0110	F3E				300+ to 800+ pps	RF73MF	NZART	ZL1GWE	
28335.0	6	2013	4	1	0110	A3E				S1	QG52xi	WIA		
28350.0	100	2013	4	20	0740	P0N				ASIAN	QG52xi	WIA		
28350.0	6	2013	4	1	0110	A3E				LIKE MCW ONLY				
28355.0	6	2013	4	1	0110	A3E				VERY BROAD	QG52xi	WIA		
28360.0	100	2013	4	11	0900	P0N				ASIAN	QG52xi	WIA		
28362.5	6	2013	4	1	0110	A3E				ASIAN	QG52xi	WIA		

28365.0	6	2013	4	1	0110		A3E				ASIAN LIKE MCW ONLY	QG52xi	WIA		
28370.0	100	2013	4	10	0730		P0N				VERY BROAD	QG52xi	WIA		
28375.0	6	2013	4	1	0110		F3E				ASIAN	QG52xi	WIA		
28375		2013	04	28	<0051>	0051	F3E	330	CHN	Unid	Non Amateurs Chinese S4	RF73MF	NZART	ZL1GWE	
28385.0	6	2013	4	1	0110		A3E				ASIAN	QG52xi	WIA		
28395.0	6	2013	4	4	0650		A3E				ASIAN	QG52xi	WIA		
28400.0	6	2013	4	1	0110		F3E				ASIAN	QG52xi	WIA		
28404		2013	04	28	<0628>	0628	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE	
28405.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28412.5	6	2013	4	19	2210		A3E				ASIAN	QG52xi	WIA		
28415.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28420	57	2013	04	14	<0616>	0616	P0N	330	?	Unid	OTHR EP 304-872 pps S2 second and six second bursts	RF73MF	NZART	ZL1GWE	
28425.0	6	2013	4	1	0115		F3E				ASIAN	QG52xi	WIA		
28435.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28437.5	6	2013	4	12	0940		A3E				ASIAN	QG52xi	WIA		
28450.0	10	2013	4	21	0045		G7DF				HF MANPACK	QG52xi	WIA		
28450.0	6	2013	4	2	0815		A3E				ASIAN	QG52xi	WIA		
28450		2013	04	27	<2347>	2347	G7DF	330	?	Unid	HF Man Pack S2 8-PSK DRIFTNET	RF73MF	NZART	ZL1GWE	
28452.5		2013	4	13	0945		A1A			GK6	BEACON	QG52xi	WIA		
28455.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28455		2013	04	28	<0000>	0000	A3E	330	?	Unid	Non Amateurs S2	RF73MF	NZART	ZL1GWE	
28462.5	6	2013	4	24	0825		A3E				ASIAN	QG52xi	WIA		
28465.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28475.0	6	2013	4	1	0115		F3E				ASIAN	QG52xi	WIA		
28478		2013	04	28	<0540>	0540	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
28485.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28487.5	6	2013	4	2	0815		A3E				ASIAN	QG52xi	WIA		
28495.0	6	2013	4	20	0020		A3E				ASIAN	QG52xi	WIA		
28500.0	10	2013	4	21	0045		G7DF				HF MANPACK	QG52xi	WIA		
28500		2013	04	22	<0250>	0250	G7DE		?	Unid	HF Man Pack - 6 PSK	RF72LQ	NZART	ZL1BAD	
28505.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28512.5	6	2013	4	12	0430		A3E				ASIAN	QG52xi	WIA		
28515.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28525.0	10	2013	4	26	0740		G7DF				HF MANPACK	QG52xi	WIA		
28525.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28530.0	6	2013	4	16	0730		A3E				ASIAN	QG52xi	WIA		
28535.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28540.0	10	2013	4	6	2330		G7DF				HF MANPACK	QG52xi	WIA		

28545.0	6	2013	4	4	0650		A3E				ASIAN	QG52xi	WIA		
28550.0	6	2013	4	12	0430		A3E				ASIAN	QG52xi	WIA		
28555.0	6	2013	4	1	0115		A3E				ASIAN	QG52xi	WIA		
28560.0	6	2013	4	5	0750		A3E				ASIAN	QG52xi	WIA		
28564		2013	04	27	<0544>	0544	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE	
28565.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28572.0	6	2013	4	12	0940		A3E				ASIAN	QG52xi	WIA		
28575.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28580.0	6	2013	4	11	0910		A3E				ASIAN	QG52xi	WIA		
28585.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28587.5	6	2013	4	21	0050		A3E				ASIAN	QG52xi	WIA		
28595.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28600.0	6	2013	4	5	0750		A3E				ASIAN	QG52xi	WIA		
28605.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28615.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28625.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28635.0	6	2013	4	2	0820		A3E				ASIAN	QG52xi	WIA		
28645.0	6	2013	4	4	0655		A3E				ASIAN	QG52xi	WIA		
28650.0	6	2013	4	4	0655		A3E				ASIAN	QG52xi	WIA		
28655.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28662.5	6	2013	4	12	0940		A3E				ASIAN	QG52xi	WIA		
28665.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28667.5	6	2013	4	16	0730		A3E				ASIAN	QG52xi	WIA		
28672.0	6	2013	4	6	0020		A3E				ASIAN	QG52xi	WIA		
28675.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28680.0	6	2013	4	12	0435		A3E				ASIAN	QG52xi	WIA		
28680.0	100	2013	4	7	0855		P0N				LIKE MCW ONLY VERY BROAD	QG52xi	WIA		
28685.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28687.5	6	2013	4	6	2335		A3E				ASIAN	QG52xi	WIA		
28690.0	100	2013	4	5	0755		P0N				LIKE MCW ONLY VERY BROAD	QG52xi	WIA		
28692.0	6	2013	4	5	2345		A3E				ASIAN	QG52xi	WIA		
28695.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28700.0	100	2013	4	4	0655		P0N				LIKE MCW ONLY VERY BROAD OTHR S3 869 pps to 304 pps Iranian	QG52xi	WIA		
28703.5	57	2013	04	01	<0530>	0530	P0N	330	IRN	Unid	EP	RF73MF	NZART	ZL1GWE	
28705.0	6	2013	4	2	0820		A3E				ASIAN	QG52xi	WIA		
28708		2013	04	27	<0541>	0541	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
28715.0	6	2013	4	1	0120		A3E				ASIAN	QG52xi	WIA		
28725.0	6	2013	4	1	0120		F3E				ASIAN	QG52xi	WIA		
28725		2013	04	27	<0544>	0544	A3E	330	?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE	
28730.0	6	2013	4	6	0020		A3E				ASIAN	QG52xi	WIA		

28735.0	6	2013	4	1	0120	A3E				ASIAN	QG52xi	WIA		
28737.5	6	2013	4	5	2345	A3E				ASIAN	QG52xi	WIA		
28740.0	6	2013	4	12	0940	A3E				ASIAN	QG52xi	WIA		
28745.0	6	2013	4	1	0120	A3E				ASIAN	QG52xi	WIA		
28750.0	6	2013	4	1	0120	F3E				ASIAN	QG52xi	WIA		
28750		2013	04	27	<0505>	0505	A3E	330	IND	Unid	Non Amateurs S1- 3 Indonesians	RF73MF	NZART	ZL1GWE
28755.0	6	2013	4	1	0120	A3E				ASIAN	QG52xi	WIA		
28760.0	6	2013	4	1	0120	A3E				ASIAN	QG52xi	WIA		
28762.5	6	2013	4	2	0820	A3E				ASIAN	QG52xi	WIA		
28765.0	6	2013	4	4	0655	F3E				ASIAN	QG52xi	WIA		
28770.0	6	2013	4	12	0945	A3E				ASIAN	QG52xi	WIA		
28771		2013	04	27	<0542>	0542	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28775.0	6	2013	4	1	0120	A3E				ASIAN	QG52xi	WIA		
28779		2013	04	27	<0508>	0508	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28785.0	6	2013	4	2	0820	A3E				ASIAN	QG52xi	WIA		
28787.5	6	2013	4	7	0905	A3E				ASIAN	QG52xi	WIA		
28800.0	8	2013	4	6	0020	A3E				ASIAN SW BROADCAST	QG52xi	WIA		
28800.0	6	2013	4	1	0125	F3E				ASIAN	QG52xi	WIA		
28805.0	6	2013	4	10	0740	A3E				ASIAN	QG52xi	WIA		
28812.5	6	2013	4	2	0820	F3E				ASIAN	QG52xi	WIA		
28815.0	6	2013	4	4	0655	A3E				ASIAN	QG52xi	WIA		
28817		2013	04	27	<0536>	0536	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE
28818		2013	04	27	<0542>	0542	G7DF	330	?	Unid	HF Man Pack S1 8-PSK	RF73MF	NZART	ZL1GWE
28821.0	1	2013	4	10	0740	G1D				IDLING	QG52xi	WIA		
28825.0	6	2013	4	2	0825	A3E				ASIAN	QG52xi	WIA		
28830.0	6	2013	4	2	0755	A3E				ASIAN	QG52xi	WIA		
28835.0	6	2013	4	2	0825	A3E				ASIAN	QG52xi	WIA		
28845.0	6	2013	4	11	0540	A3E				ASIAN	QG52xi	WIA		
28850.0	6	2013	4	2	0825	A3E				ASIAN	QG52xi	WIA		
28855.0	6	2013	4	7	0905	A3E				ASIAN	QG52xi	WIA		
28860.0	5	2013	4	2	0825	G7DF				HF MANPACK	QG52xi	WIA		
28862.5	6	2013	4	1	0125	A3E				ASIAN	QG52xi	WIA		
28865.0	6	2013	4	1	0125	A3E				ASIAN	QG52xi	WIA		
28875.0	6	2013	4	2	0825	F3E				ASIAN	QG52xi	WIA		
28887.5	6	2013	4	1	0125	A3E				ASIAN	QG52xi	WIA		
28890.0	6	2013	4	5	0755	A3E				ASIAN	QG52xi	WIA		
28900.0	6	2013	4	10	0740	A3E				ASIAN	QG52xi	WIA		
28905.0	6	2013	4	4	0700	A3E				ASIAN	QG52xi	WIA		
28912.5	6	2013	4	10	0740	A3E				ASIAN	QG52xi	WIA		
28925.0	6	2013	4	1	0125	F3E				ASIAN	QG52xi	WIA		
28935.0	6	2013	4	28	0710	A3E				ASIAN	QG52xi	WIA		



28937.5	6	2013	4	1	0125		F3E				ASIAN HF Man Pack S1	QG52xi	WIA		
28938		2013	04	27	<2355>	2355	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE	
28940.0	6	2013	4	11	0545		A3E				ASIAN	QG52xi	WIA		
28943.0	6	2013	4	5	0755		A3E				ASIAN	QG52xi	WIA		
28950.0	6	2013	4	5	0755		F3E				ASIAN	QG52xi	WIA		
28962.5	6	2013	4	1	0125		F3E				ASIAN	QG52xi	WIA		
28965.0	6	2013	4	12	0440		A3E				ASIAN	QG52xi	WIA		
28975.0	6	2013	4	6	0545		A3E				ASIAN	QG52xi	WIA		
28980.0	8	2013	4	2	0825		A3E				SW BROADCAST	QG52xi	WIA		
28985.0	6	2013	4	2	0825		A3E				ASIAN	QG52xi	WIA		
28987.5	6	2013	4	1	0125		F3E				ASIAN OTHR, CONTINUOUS, SLOW PULSE	QG52xi	WIA		
28990.0	20	2013	4	26	0745		P0N				RATE	QG52xi	WIA		
28993.0	6	2013	4	23	0955		A3E				ASIAN	QG52xi	WIA		
29000.0	6	2013	4	2	0825		A3E				ASIAN	QG52xi	WIA		
29005.0	6	2013	4	6	0020		A3E				ASIAN	QG52xi	WIA		
29012.5	6	2013	4	10	0740		F3E				ASIAN	QG52xi	WIA		
29015		2013	04	27	<2355>	2355	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
29025.0	6	2013	4	2	0825		F3E				ASIAN	QG52xi	WIA		
29035.0	5	2013	4	5	0800		G7DF				HF MANPACK	QG52xi	WIA		
29035.0	6	2013	4	1	0125		A3E				ASIAN	QG52xi	WIA		
29037.5	6	2013	4	1	0125		F3E				ASIAN	QG52xi	WIA		
29040.0	6	2013	4	6	0025		A3E				ASIAN	QG52xi	WIA		
29045.0	6	2013	4	7	0905		A3E				ASIAN	QG52xi	WIA		
29050.0	6	2013	4	1	0125		F3E				ASIAN	QG52xi	WIA		
29055.0	6	2013	4	6	0025		A3E				ASIAN	QG52xi	WIA		
29062.5	6	2013	4	10	0745		A3E				ASIAN	QG52xi	WIA		
29065.0	6	2013	4	6	0025		A3E				ASIAN	QG52xi	WIA		
29075.0	6	2013	4	4	0700		F3E				ASIAN	QG52xi	WIA		
29085.0	6	2013	4	4	1000		A3E				ASIAN	QG52xi	WIA		
29087.5	6	2013	4	24	2350		F3E				ASIAN	QG52xi	WIA		
29090.0	6	2013	4	28	0715		A3E				ASIAN	QG52xi	WIA		
29095.0	6	2013	4	4	1000		A3E				ASIAN	QG52xi	WIA		
29100.0	6	2013	4	2	0825		F3E				ASIAN	QG52xi	WIA		
29105.0	6	2013	4	5	2350		A3E				ASIAN	QG52xi	WIA		
29105		2013	04	27	<0527>	0527	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
29112.5	6	2013	4	1	0125		A3E				ASIAN	QG52xi	WIA		
29115		2013	04	27	<0515>	0515	G7DF	330	?	Unid	HF Man Pack S2 8-PSK	RF73MF	NZART	ZL1GWE	
29120.0	6	2013	4	6	0550		F3E				ASIAN	QG52xi	WIA		
29125.0	6	2013	4	1	0130		A3E				ASIAN	QG52xi	WIA		

Frequency	Power	Year	Month	Day	Time	Call	Mode	Power	Country	Station	Service	Remarks	Remarks	Remarks
29125	50.5	2013	04	27	<0513>	0513-0515	P0N	330	IRN	Unid	OTHR Iranian S2 310 pps and 867 pps 5 second bursts	RF73MF	NZART	ZL1GWE
29135.0	6	2013	4	10	0910		A3E				ASIAN	QG52xi	WIA	
29140.0	8	2013	4	24	2350		A3E				ASIAN SW BROADCAST	QG52xi	WIA	
29145.0	6	2013	4	11	0930		A3E				ASIAN, WITH HUM	QG52xi	WIA	
29150.0	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	
29155.0	6	2013	4	6	0030		A3E				ASIAN	QG52xi	WIA	
29162.5	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	
29170.0	6	2013	4	10	0745		F3E				ASIAN MUSIC	QG52xi	WIA	
29175.0	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	
29180.0	6	2013	4	11	0930		A3E				ASIAN	QG52xi	WIA	
29185.0	6	2013	4	5	0800		A3E				ASIAN	QG52xi	WIA	
29187.5	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	
29195.0	6	2013	4	12	0445		A3E				ASIAN	QG52xi	WIA	
29200.0	6	2013	4	4	0700		A3E				ASIAN	QG52xi	WIA	
29205.0	6	2013	4	15	1015		A3E				ASIAN	QG52xi	WIA	
29212.5	6	2013	4	10	0900		A3E				ASIAN	QG52xi	WIA	
29215.0	6	2013	4	7	0910		A3E				ASIAN	QG52xi	WIA	
29220.3	3	2013	4	6	0030		J3E/L				ASIAN, SOUNDS CHINESE	QG52xi	WIA	
29225.0	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	
29225		2013	04	27	<0522>	0522	A3E	330	?	Unid	Non Amateurs S2 HF Man Pack S2	RF73MF	NZART	ZL1GWE
29229		2013	04	27	<0519>	0519	G7DF	330	?	Unid	8-PSK	RF73MF	NZART	ZL1GWE
29235.0	6	2013	4	12	0950		A3E				ASIAN	QG52xi	WIA	
29237.5	6	2013	4	16	0740		A3E				ASIAN	QG52xi	WIA	
29245.0	6	2013	4	6	0030		A3E				ASIAN	QG52xi	WIA	
29250.0	6	2013	4	4	0700		A3E				ASIAN	QG52xi	WIA	
29255.0	6	2013	4	21	0100		A3E				ASIAN	QG52xi	WIA	
29262.5	6	2013	4	11	0550		F3E				ASIAN	QG52xi	WIA	
29275.0	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	
29285.0	6	2013	4	10	0820		A3E				ASIAN	QG52xi	WIA	
29300.0	6	2013	4	2	0830		A3E				ASIAN	QG52xi	WIA	
29305.0	6	2013	4	20	0755		A3E				ASIAN	QG52xi	WIA	
29310.0	1	2013	4	21	0105		F1B	400			CONTINUOUS	QG52xi	WIA	
29315.0	6	2013	4	5	2350		A3E				ASIAN	QG52xi	WIA	
29325.0	1	2013	4	5	2355		F1B	150			DAILY, CONTINUOUS	QG52xi	WIA	
29325.0	6	2013	4	16	0740		A3E				ASIAN	QG52xi	WIA	
29335.0	6	2013	4	10	0750		A3E				ASIAN	QG52xi	WIA	
29337.5	6	2013	4	5	2355		F3E				ASIAN	QG52xi	WIA	
29350.0	1	2013	4	5	2355		F1B	150			DAILY, CONTINUOUS	QG52xi	WIA	
29350.0	6	2013	4	1	0130		F3E				ASIAN	QG52xi	WIA	

29362.5	6	2013	4	10	0750	F3E				ASIAN	QG52xi	WIA		
29375.0	6	2013	4	1	0130	F3E				ASIAN	QG52xi	WIA		
29387.5	6	2013	4	2	0830	F3E				ASIAN	QG52xi	WIA		
29400.0	6	2013	4	10	0800	A3E				ASIAN	QG52xi	WIA		
29405.0	6	2013	4	12	0950	A3E				ASIAN	QG52xi	WIA		
29412.5	6	2013	4	10	0815	A3E				ASIAN	QG52xi	WIA		
29415.0	6	2013	4	7	0910	A3E				ASIAN	QG52xi	WIA		
29425.0	1	2013	4	2	0830	F1B	150			DAILY, CONTINUOUS	QG52xi	WIA		
29425.0	6	2013	4	1	0130	F3E				ASIAN	QG52xi	WIA		
29435.0	6	2013	4	5	2355	A3E				ASIAN	QG52xi	WIA		
29437.5	6	2013	4	6	0035	F3E				ASIAN	QG52xi	WIA		
29450.0	6	2013	4	4	0905	A3E				ASIAN	QG52xi	WIA		
29455.0	6	2013	4	4	0905	A3E				ASIAN	QG52xi	WIA		
29462.5	6	2013	4	1	0130	A3E				ASIAN	QG52xi	WIA		
29475.0	6	2013	4	2	0830	F3E				ASIAN	QG52xi	WIA		
29487.5	6	2013	4	1	0130	F3E				ASIAN	QG52xi	WIA		
29494		2013	04	27	<0531>	0531	G7DF	330	?	Unid	HF Man Pack S2 8-PSK OTHR, CONTINUOUS	RF73MF	NZART	ZL1GWE
29500.0	20	2013	4	4	0900	P0N				CONTINUOUS	QG52xi	WIA		
29500.0	6	2013	4	19	0815	A3E				ASIAN	QG52xi	WIA		
29510.0	6	2013	4	2	0830	A3E				ASIAN	QG52xi	WIA		
29512.5	6	2013	4	10	0810	A3E				ASIAN	QG52xi	WIA		
29515.0	6	2013	4	1	0130	A3E				ASIAN	QG52xi	WIA		
29525.0	6	2013	4	1	0130	F3E				ASIAN	QG52xi	WIA		
29537.5	6	2013	4	1	0130	A3E				ASIAN	QG52xi	WIA		
29545.0	6	2013	4	2	0835	A3E				ASIAN	QG52xi	WIA		
29550.0	1	2013	4	5	2355	F1B	150			DAILY, CONTINUOUS	QG52xi	WIA		
29550.0	6	2013	4	1	0130	F3E				ASIAN	QG52xi	WIA		
29562.5	6	2013	4	10	0810	A3E				ASIAN	QG52xi	WIA		
29565.0	6	2013	4	10	0810	A3E				ASIAN	QG52xi	WIA		
29575.0	6	2013	4	1	0135	F3E				ASIAN	QG52xi	WIA		
29585.0	6	2013	4	10	0750	A3E				ASIAN	QG52xi	WIA		
29587.5	6	2013	4	15	1020	F3E				ASIAN	QG52xi	WIA		
29590.0	20	2013	4	16	0745	P0N				OTHR, CONTINUOUS	QG52xi	WIA		
29595.0	6	2013	4	12	0450	A3E				ASIAN	QG52xi	WIA		
29600.0	8	2013	4	11	0940	A3E				ASIAN, SW BROADCAST	QG52xi	WIA		
29600.0	8	2013	4	2	0835	F3E				ASIAN, NOT AMATEUR	QG52xi	WIA		
29605.0	6	2013	4	10	0755	A3E				ASIAN	QG52xi	WIA		
29612.5	6	2013	4	10	0755	F3E				ASIAN	QG52xi	WIA		
29625.0	6	2013	4	4	0705	F3E				ASIAN	QG52xi	WIA		
29635.0	6	2013	4	2	0835	A3E				ASIAN	QG52xi	WIA		

29637.5	6	2013	4	6	0600	F3E	ASIAN	QG52xi	WIA
29650.0	6	2013	4	4	0840	F3E	ASIAN	QG52xi	WIA
29655.0	6	2013	4	2	0835	A3E	ASIAN	QG52xi	WIA
29662.5	6	2013	4	1	0135	F3E	ASIAN	QG52xi	WIA
29675.0	6	2013	4	1	0135	F3E	ASIAN	QG52xi	WIA
29685.0	5	2013	4	6	0035	G7DF	HF MANPACK	QG52xi	WIA
29687.5	6	2013	4	10	0755	F3E	ASIAN	QG52xi	WIA
29700.0	6	2013	4	1	0135	F3E	ASIAN	QG52xi	WIA