



INTERNATIONAL AMATEUR RADIO UNION

REGION THREE

MONITORING SYSTEM REPORT



December 2011

Peter Young VK3MV

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

This month there were 779 observations made across the Region, which contrasts with 928 last month. Again this month there is an increase in the number of 10 meter intrusions.

There has been an increased number of 40 meter intrusions from OHR operating the Asian region. These intrusions have been reported to Regulatory Authorities within the region.

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

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

Wishing everyone best wishes for 2012.

Peter – VK3MV

kHz	BW	MM	GMT	UTC	Emm	Bd	Sft	Hdg	ADM	ID	Description	Grid	Society	Notes
3525.0	5	12	1815		G7D						DAILY, APPROX 20 SUBCARRIERS ON 100	QG52xi	WIA	VK4TJ
3548.0	1	12	1905		F1B	MODEST	200				HZ CENTRES	QG52xi	WIA	
3563.0	3	12	1815		J3E/U						NO DECODES	QG52xi	WIA	
3584.0	3	12	1900		J1C						ASIAN	QG52xi	WIA	
3623.0	3	12	1815		J1C							QG52xi	WIA	
3754	0.5	12		07:08	A1A						de jf de jf de jf de jf de jf de jf de jf		JARL	
3797	0.5	12		20 : 47							train of "h2fl h2fl h2fl de drvz drvz v"		JARL	
3797.8	0.5	12		18:53	A1A						h2fl h2fl h2fl de drvz drvz v		JARL	
3798	0.5	12		18 : 49							train of "h2fl h2fl h2fl de drvz drvz v"		JARL	
3798	0.5	12		20:22							. . . 3 t t 7 nua5 nst6 und6 u53t		JARL	
3803	0.5	12		20:50							. . . 1549 . . . 1550 . . . 1551 . . . 1552		JARL	
6900	100	12	<1616>	1616	P0N				?	Unid	OTHR 50 PPS S9+continuous	RF73MF	NZART	ZL1GWE
6970.0	120	12	1815		P0N						OTHR, SPILLS INTO AMATEUR 40 MTR	QG52xi	WIA	
7000.0	80	12	2000		G7D				PAK		ALLOCATION	QG52xi	WIA	
7000.0	3	12	0740		J3E/U				INS		LOCATION ID BY DK2OM	QG52xi	WIA	
7000		12	<1750>	1750	P0N				?	Unid	DAILY, VILLAGE RADIO	QG52xi	WIA	
7000		12	<1820>	1820	P0N				?	Unid	Out of band OTHR spreading to 7010	RF72LQ	NZART	ZL1BAD
7000		12	<1800>	1800	P0N				?	Unid	suspected OTHSAR	RF72LQ	NZART	ZL1BAD
7000		12	<1100>	1100	J3E/L				?	Unid	Out of band OTHR spreading to 7010	RF72LQ	NZART	ZL1BAD
7000		12	<1345>	1345	J3E/L				?	Unid	suspected OTHSAR	RF72LQ	NZART	ZL1BAD
7000	?	12		17:11	OTH?						Non Amateurs	RF72LQ	NZART	ZL1BAD
7009.0	3	12	1020		J3E/U						Non Amateurs	RF72LQ	NZART	ZL1BAD
7010.0	3	12	1210		J3E/L				INS		OTH Radar?6945~7007KHz	QG52xi	WIA	
7010.0	20	12	0900		P0N						ASIAN, SOUNDS CHINESE	QG52xi	WIA	
7015.0	3	12	0740		J3E/U				INS		DAILY, VILLAGE RADIO	QG52xi	WIA	
7018.0	1	12	1930		F1B	VERY HIGH	500				OTHR, SPILLS INTO AMATEUR 40 MTR	QG52xi	WIA	
7018		12	<1750>	1750	F1B		1000		?	Unid	ALLOCATION	RF72LQ	NZART	ZL1BAD
7018		12	<1730>	1730	F1B		1000		?	Unid	DAILY, VILLAGE RADIO	RF72LQ	NZART	ZL1BAD
7020.0	40	12	1950		G7D				IND		TRANSMITTER DEFECT @ ALL INDIA	QG52xi	WIA	
7020.0	3	12	1010		J3E/U				INS		RADIO	QG52xi	WIA	
7023	34	12	1804		P0N			non	non	non	DAILY, VILLAGE RADIO	PM97	JARL	non
7023	34	12	1802	anytime	P0N			non	non	non	7006KHz ~ 7040KHz wide pulse mode P0N	PM97	JARL	non
7023	34	12	1740		P0N			non	non	non	OTHR ?	PM97	JARL	non
7023	34	12	1710		P0N			non	non	non	7006KHz ~ 7040KHz wide pulse mode P0N	PM97	JARL	non
7023	34	12	1808		P0N			non	non	non	OTHR ?	PM97	JARL	non

7025.0	3	12		0900		J3E/U		INS		DAILY, VILLAGE RADIO		QG52xi	WIA	
7025.0	1	12		1015		F1B	200			CONTINUOUS, IDLE TONES		QG52xi	WIA	
					1620-1626					OTHR 2-4 pps S4				
7025	38	12		<1620>	1626	VXX		?	Unid			RF73MF	NZART	ZL1GWE
7025		12		<0700>	0700	F1B	1000	?	Unid	Idling only.		RF72LQ	NZART	ZL1BAD
7030.0	30	12		2020		VXX				CODAR, SWEEPS 30 KHZ		QG52xi	WIA	
										SINGLE LETTER BEACONS—				
7038.5		2011	12	26	<2100-2130>	A1A		RUS	C,D	VERY STRONG.		MK82		ARSI
7038.7		2011	12	2	1810	A1A		RU	D	DAILY, HARBOUR BEACON		QG52xi		WIA
7038.9		2011	12	9	1855	A1A		RU	S	DAILY, HARBOUR BEACON		QG52xi		WIA
7039.0		2011	12	2	1810	A1A		RU	C	DAILY, HARBOUR BEACON		QG52xi		WIA
										Moscow - Beacon C call sign				
7039.0		2011	12	DY	<0530>	A1A		RUS	C	RIW		RF72LQ		NZART ZL1BAD
										Astrakhan (No call sign)				
7039		2011	12	DY	<0530>	A1A		RUS	A			RF72LQ		NZART ZL1BAD
										Vladivostok - Beacon F call sign				
7039		2011	12	DY	<0530>	A1A		RUS	F	RJS		RF72LQ		NZART ZL1BAD
										Kaliningrad - Beacon P call sign				
7039		2011	12	DY	<0530>	A1A		RUS	P	RMP		RF72LQ		NZART ZL1BAD
7039	0.5	2011	12	01	0330	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	01	0850	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	01	0852	A1A		37	RUS	K--signal	Beacon	PM97		JARL Kamchatskiy
7039	0.5	2011	12	01	1040	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	01	1236	A1A		37	RUS	K--signal	Beacon	PM97		JARL Kamchatskiy
7039	0.5	2011	12	01	1810	A1A		37	RUS	K--signal	Beacon	PM97		JARL Kamchatskiy
7039	0.5	2011	12	01	2214	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	01	2220	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	02	0340	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	02	0344	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	02	0830	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	02	0834	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	02	1804	A1A		15	RUS	M--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	02	1924	A1A		37	RUS	K--signal	Beacon	PM97		JARL Kamchatskiy
7039	0.5	2011	12	02	1928	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	02	2216	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	02	2220	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	03	0344	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	03	0820	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok
7039	0.5	2011	12	03	1030	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	03	1602	A1A		37	RUS	K--signal	Beacon	PM97		JARL Kamchatskiy
7039	0.5	2011	12	03	1610	A1A		302	KGZ	A--signal	Beacon	PM97		JARL Kirgisistan
7039	0.5	2011	12	03	1702	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	03	1710	A1A		302	KGZ	A--signal	Beacon	PM97		JARL Kirgisistan
7039	0.5	2011	12	03	1804	A1A		15	RUS	M--signal	Beacon	PM97		JARL Magadan
7039	0.5	2011	12	03	1812	A1A		302	KGZ	A--signal	Beacon	PM97		JARL Kirgisistan
7039	0.5	2011	12	03	2210	A1A		321	RUS	F--signal	Beacon	PM97		JARL Vladivostok

7039	0.5	2011	12	03	2214	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	04	0340	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2011	12	04	0344	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	04	0830	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2011	12	04	0832	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	04	1040	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2011	12	04	1802	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	04	1804	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	04	1914	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	04	1916	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	04	2212	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	04	2216	A1A	15	non	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	05	0330	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	05	0850	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	05	0854	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	05	2214	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	05	2220	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	06	0812	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	06	0816	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	06	1220	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	06	1808	A1A	302	RUS	A--signal	Beacon	PM97	JARL	Kirgisistan
7039	0.5	2011	12	06	2216	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	07	0820	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	07	1050	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	07	1310	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	07	2214	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	08	0810	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	08	1710	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	08	1810	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	08	2214	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	09	0812	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	09	1056	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	09	1604	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	09	1704	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	09	1806	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	09	2214	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	09	2218	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	0810	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	1050	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	1304	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	1310	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	10	1604	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	1804	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	2212	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	10	2216	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy

7039	0.5	2011	12	11	0820	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	11	1710	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	11	1810	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	12	0816	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	12	1704	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	12	1804	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	12	2212	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	13	0340	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	13	0810	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	13	1916	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	13	2216	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	14	0810	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	14	1030	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	14	1034	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	14	1240	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	14	1810	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	14	2214	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	15	0840	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	15	0844	anytime A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	15	1030	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	15	1316	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	15	1808	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	15	2212	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	16	1740	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	16	2214	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	19	1730	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	19	1820	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	19	2216	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	20	1710	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	20	1826	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatskiy
7039	0.5	2011	12	22	0640	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	23	1740	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	24	1750	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	24	2212	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	25	0348	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	28	1850	A1A	302	KGZ	A--signal	Beacon	PM97	JARL	Kirgisistan
7039	0.5	2011	12	29	1814	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2011	12	29	1910	A1A	302	KGZ	A--signal	Beacon	PM97	JARL	Kirgisistan
7039.1		2011	12	2	1810	A1A		RU	A	DAILY, HARBOUR BEACON	QG52xi	WIA	
7039.2		2011	12	2	1810	A1A		RU	F	DAILY, HARBOUR BEACON	QG52xi	WIA	
7039.3		2011	12	1	0740	A1A		RU	K	DAILY, HARBOUR BEACON	QG52xi	WIA	
						0530-1900				Petropavlovsk - Beacon K call sign RCC			
7039.3		2011	12	DY	<0530>	A1A		RUS	K		RF72LQ	NZART	ZL1BAD
7039.4		2011	12	2	1810	A1A		RU	M	DAILY, HARBOUR BEACON	QG52xi	WIA	
7039.4		2011	12	DY	<0530>	A1A		RUS	M	Magadan - Beacon M call sign	RF72LQ	NZART	ZL1BAD

7039.76	0.5	2011	12	10		1900						RTS			
						17:13						train of "M"			JARL
7039.9		2011	12	DY	<0530>	0530-1900	A1A			RUS	S	Severomorsk - Beacon S call sign RIT	RF72LQ	NZART	ZL1BAD
7040	0.5	2011	12	09		07:10	A1A					train of "M","K"		JARL	
7040	0.5	2011	12	26		18:59						train of " M "		JARL	
7041.7		2011	12	2	1810		A1A			RU	L	DAILY, HARBOUR BEACON	QG52xi	WIA	
7044.0	1	2011	12	4	1930		F1B	VERY HIGH	500			CONTINUOUS, IDLE TONES	QG52xi	WIA	
7044	3	2011	12	03	1256		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	03	1606		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	03	1706		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	03	1808		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	04	1304		F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	04	1604		F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	04	1704		F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	04	1808	anytime	F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	04	1920		F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	05	1108		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	05	1320		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	07	1606		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	07	1710		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	08	1106		F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	08	1240		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	08	1604		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	08	1704		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	08	1804		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	12	1604		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	12	1708		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	12	1806		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	15	1320		F1B			non	non	IDL only	PM97	JARL	non
7044	3	2011	12	15	1604		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	15	1704		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	15	1804		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	26	1604		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	26	1720		F1B			non	non	now on air	PM97	JARL	non
7044	3	2011	12	26	1830	anytime	F1B			non	non	now on air	PM97	JARL	non
7045	2	2011	12	20	1604		PXX			non	non	unknown	PM97	JARL	non
7045	2	2011	12	20	1704		PXX			non	non	unknown	PM97	JARL	non
7045	2	2011	12	20	1820		PXX			non	non	unknown	PM97	JARL	non
7050		2011	12	29	<1616>	1616	P0N			?	Unid	OTHR S9+ 40pps	RF73MF	NZART	ZL1GWE
7054		2011	12	17	<0615>	0615	F1B		200	RUS	REA4	Idling only. Russian Air Force	RF72LQ	NZART	ZL1BAD
7054		2011	12	28	<1850>	1850	F1B		200	RUS	REA4	Idling only. Russian Air Force	RF72LQ	NZART	ZL1BAD
7054		2011	12	31	<1845>	1845	F1B		200	RUS	REA4	Idling only. Russian Air Force	RF72LQ	NZART	ZL1BAD
												OTHR, BURSTS, STEREO			
7060.0	20	2011	12	29	1920		P0N					WITH 7155?	QG52xi	WIA	

7064.0	5	2011	12	26	1955		G7D					APPROX 50 SUBCARRIERS APPROX 40 HZ APART	QG52xi	WIA	
7078.0	5	2011	12	26	1950		G7D					APPROX 50 SUBCARRIERS APPROX 40 HZ APART	QG52xi	WIA	
7083.0		2011	12	14	1015		A1A			8IPR		CALLING DPTN	QG52xi	WIA	
7083	34	2011	12	02	1920		P0N		non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7083	34	2011	12	12	1710		P0N		non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7083	34	2011	12	12	1810		P0N		non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7090	35	2011	12	30	<0400>	0400	P0N			?	Unid	PPS not measured	RF72LQ	NZART	ZL1BAD
												CIPHER, SOME CYRILLIC CHARACTERS			
7100.0		2011	12	14	1015		A1A						QG52xi	WIA	
7100.0	30	2011	12	14	1015		VXX					CODAR, SWEEPS 30 KHZ	QG52xi	WIA	
7105	5	2011	12	01	2208		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	01	2210		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	02	2210		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	02	2212		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	03	2204		A3E		273	CHN	non	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	03	2206		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	04	2206		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	04	2208		A3E		non	non	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	05	2208		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	05	2210		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	06	2208		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	06	2210		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	07	2206		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	07	2208		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	08	2208		A1A		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	08	2210		A1A		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	09	2208		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	09	2210		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	10	2206		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	10	2208		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	11	2204		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	11	2206		A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	12	2206		A3E		273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot

7105	3	2011	12	12	2208	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	12	2258	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music 23:00 UTC Time signal 5+1 on time	PM97	JARL	Hohhot
7105	5	2011	12	13	2210	A3E	273	CHN	Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	13	2212	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	14	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	14	2208	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	15	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	15	2208	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	16	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	16	2208	A3E	non	CHN	non	Chinese Talk and Music Chinese Talk and Music 23:00 UTC Time signal 5+1 on time	PM97	JARL	non
7105	5	2011	12	16	2258	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	5	2011	12	17	2210	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	17	2212	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	18	2208	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	18	2210	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	19	2208	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	19	2210	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	20	2204	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	20	2206	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	21	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	21	2208	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	22	2204	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	22	2206	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	23	2208	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	23	2210	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	24	2204	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	24	2206	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	25	2204	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	25	2206	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	26	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	26	2208	A3E	non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	27	2210	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	PM97	JARL	Hohhot

7105	3	2011	12	27	2212		A3E		non	CHN	non PBS Nei	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	28	2208		A3E		273	CHN	Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	28	2210		A3E		non	CHN	non PBS Nei	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	29	2204		A3E		273	CHN	Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	29	2206		A3E		non	CHN	non PBS Nei	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	30	2206		A3E		273	CHN	Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	30	2208		A3E		non	CHN	non PBS Nei	Chinese Talk and Music	PM97	JARL	non
7105	5	2011	12	31	2210		A3E		273	CHN	Meng	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2011	12	31	2212	anytime	A3E		non	CHN	non	Chinese Talk and Music	PM97	JARL	non
7110		2011	12	03	<1750>	1750	A3E			THA	Unid	B-C Radio Myanmar	RF72LQ	NZART	ZL1BAD
7110		2011	12	04	<1735>	1735	A3E			THA	Unid	B-C Stn Radio Myanmar	RF72LQ	NZART	ZL1BAD
7110		2011	12	03	<1750>	1750	A3E			THA	Unid	B-C Radio Myanmar	RF72LQ	NZART	ZL1BAD
7110		2011	12	04	<1735>	1735	A3E			THA	Unid	B-C Stn Radio Myanmar	RF72LQ	NZART	ZL1BAD
7110		2011	12	15	<1100>	1100	A3E			THA	Radio Myanmar	Radio Myanmar S9 BC		NZART	NZRDXL
7111.0	1	2011	12	14	1200		F1B		250			IDLE TONES	QG52xi	WIA	
7117		2011	12	16	<1105>	1105	F1B	50	250	RUS	REA4	Russian Air Force	RF72LQ	NZART	ZL1BAD
7120		2011	12	30	<1632>	1632	N0N			?	Unid	BC carrier plus wide jammer S8 CIPHER, SOME CYRILLIC CHARACTERS	RF73MF	NZART	ZL1GWE
7123.0		2011	12	14	1010		A1A						QG52xi	WIA	
7130	30	2011	12	11	<1820>	1820	VXX			?	Unid	3.5 PPS	RF72LQ	NZART	ZL1BAD
7137	34	2011	12	11	1706		P0N		non	non	non	7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7140.0	30	2011	12	7	0905		VXX					CODAR, SWEEPS 30 KHZ	QG52xi	WIA	
7143	34	2011	12	05	1604		P0N		non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7143	34	2011	12	10	1306		P0N		non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7145		2011	12	31	<1845>	1845	F7D			?	Unid	8 Channel - idling	RF72LQ	NZART	ZL1BAD
7148.0	1	2011	12	5	1010		F1B		250			IDLE TONES	QG52xi	WIA	
7150.0		2011	12	5	1015		N0N						QG52xi	WIA	
7150.0	80	2011	12	19	1935		P0N					OTHR	QG52xi	WIA	
7155.0	20	2011	12	29	1920		P0N					OTHR, BURSTS	QG52xi	WIA	
7160.0	80	2011	12	14	1010		P0N					OTHR	QG52xi	WIA	
7160		2011	12	30	<1632>	1632	N0N			?	Unid	BC carrier plus wide jammer S9+	RF73MF	NZART	ZL1GWE
7165	60	2011	12	13	<1815>	1815	P0N			?	Unid	PPS not measured	RF72LQ	NZART	ZL1BAD
7169.0	30	2011	12	2	1930		VXX					CODAR, SWEEPS 30 KHZ	QG52xi	WIA	
7175.0	5	2011	12	9	1855		G7D					>12 SUBCARRIERS ON 200 HZ SPACING, EACH HEAVILY PSK'D	QG52xi	WIA	
7175.0	6	2011	12	2	1800		A3E					SW BROADCAST	QG52xi	WIA	
7175		2011	12	DY	<0400>	0400	A3E			?	Unid	B-C Stn	RF72LQ	NZART	ZL1BAD
7175		2011	12	18	<1804>	1804	A3E			?	Unid	BC station	RE68XL	NZART	ZL2TZE

7175	3.3	2011	12	19	<1345>	1345	M7B			?	Unid	Phase Mod. Multi-chnl	RF72LQ	NZART	ZL1BAD
7177	34	2011	12	06	1604		P0N		non	non	non	7160KHz ~ 7194KHz wide pulse mode P0N OTHR ? BC Station S9 plus splatter up to 7200	PM97	JARL	non
7185		2011	12	18	<1804>	1804	A3E			SDN	Radio Sudan	Some broadcast from Asian country	RE68XL	NZART	ZL2TZE
7189	2	2011	12	22	1135		A3E			UNID	UNID	SW BROADCAST	NL06	ARSI	
7189.8	6	2011	12	14	1205		A3E					SLBC BROADCASTING WITH HINDI PROGRAMMING	QG52xi	WIA	
7190	5	2011	12	27	<0135-O155>		A3E			CLN	SLBC	NO DECODES	MK82	ARSI	
7193.0	1	2011	12	9	1840		F1B	LOW	200			SW BROADCAST	QG52xi	WIA	
7200.0	6	2011	12	2	1800		A3E			SDN		BC Station Radio Sudan	QG52xi	WIA	
7200		2011	12	17	<1808>	1808	A3E			SDN	Unid	OTHR S5	RE68XL	NZART	ZL2TZE
10112		2011	12	29	<1703>	1703	P0N			?	Unid	OTHR S9 50 pps suspect Cyprus ZC4	RF73MF	NZART	ZL1GWE
10131.5	19	2011	12	30	<1553>	1553	P0N			?	Unid	DAILY, SW BROADCAST	QG52xi	WIA	
10140.0	8	2011	12	6	1010		A3A					OTH Radar?10136~10160KHz		JARL	
10140	?	2011	12	09		07:15	OTH?					OTHR	QG52xi	WIA	
14000.0	40	2011	12	1	2020		P0N					DAILY, ASIAN	QG52xi	WIA	
14000.0	3	2011	12	6	0955		J3E/U					OHR	OF84wx	WIA	
14000	3	2011	11	1	22:40--00:30		J3E/U		360						
14000	3	2011	12	3	<22:42--23:00		J3E/U		315	CLN		Group of males	OF84wx	WIA	
14000	3	2011	12	7	<08:12--08:25		J3E/U		360			1 male calling, no reply	OF84wx	WIA	
14000	3	2011	12	8	<08:50--09:10>		J3E/U		360	INS		Group of males	OF84wx	WIA	
14000	3	2011	12	8	23:05--23:40		J3E/U		360	INS		Group of males	OF84wx	WIA	
14000	3	2011	12	9	23:55--00:12		J3E/U		360	INS		Group of males	OF84wx	WIA	
14000	3	2011	12	10	<22:38--00:06		J3E/U		315	CLN		Group of males	Of84wx	WIA	
14000	3	2011	12	11	08:25--08:43		J3E/L		315	CLN		2 males, outside of 20m band	OF84wx	WIA	
14000	3	2011	12	11	23:09--23:40		J3E/U		315	CLN		Group of males	OF84wx	WIA	
14000	3	2011	12	13	23:32--23:50		J3E/U		315	CLN		2 males	OF84wx	WIA	
14000	3	2011	12	15	<23:20--23:42		J3E/U		360	INS		Group of males, work from boats	OF84wx	WIA	
14000	3	2011	12	16	22:52--23:24		J3E/U		315	CLN		2 males	OF84wx	WIA	

14000	3	2011	12	19	07:20--07:54	J3E/U		360	INS		2 males	OF84wx	WIA
14000	3	2011	12	19	22:50--00:00	J3E/U		360	INS		2 males	OF84wx	WIA
14000	3	2011	12	20	23:00--23:15	J3E/U		360	INS		Group of males	OF84wx	WIA
14000	3	2011	12	25	<22:450023:14	J3E/U		315	CLN		Group of males	OF84wx	WIA
14000	3	2011	12	26	<07:12--07:16	J3E/U		315	CLN		Male-female	OF84wx	WIA
14000	3	2011	12	26	<22:45--23:34	J3E/U		315	CLN		2 males	OF84wx	WIA
14000	3	2011	12	27	06:04--07:35	JE3/U		315	CLN		Group of males	OF84wx	WIA
14000	3	2011	12	27	23:10--23"11	J3E/U		315	CLN		1 male calling, no reply	OF84wx	WIA
14000	3	2011	12	28	<07:05--07:55	J3E/U		315	CLN		Group of males	Ofg84wx	WIA
14000	3	2011	12	28	22:47--23:25	J3E/U		315	CLN		2 males	OF84wx	WIA
14000	3	2011	12	29	<00:30--00:40	J3E/U		360	INS		2 males, 5minutes of music and singing	OF84wx	WIA
14000	3	2011	12	29	07:50--08:40	J3E/L		360	INS		Group of males, changed to LSB at 08:20	OF84wx	WIA
14000	3	2011	12	29	22:46--00:05	J3E/U		315	CLN		Group of males	OF84wx	WIA
14001.4	3	2011	12	19	23:48--00:15	J3E/U		360	INS		2 males	OF84wx	WIA
14001.5		2011	12	14	<0335-0345>	J3E/U			CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14010	20	2011	12	01	<2000>	2000	P0N	270	?	Unid	OTHR 50 pps S9 - suspected to be ZC4 - Cyprus	RF80HL	NZART ZL2iFB
14011.0	5	2011	12	12	0645	G7D					APPROX 50 SUBCARRIERS APPROX 80 HZ APART	QG52xi	WIA
14011.5	3	2011	12	12	0840	J3E/U					ASIAN	QG52xi	WIA
14014.9	3	2011	12	20	1945	J3E/U					SOUNDS PORTUGUESE	QG52xi	WIA
14015.0	3	2011	12	17	1025	J3E/U					ASIAN	QG52xi	WIA
14015.4	3	2011	12	13	1145	J3E/U					ASIAN	QG52xi	WIA
14015.5	3	2011	12	12	23:10--23:34	J3E/U		360	INS		2 males	OF84wx	WIA
14015.5	3	2011	12	13	07:30--08:18	J3E/U		360			2 males	OF84wx	WIA

14023.7		2011	12	15	<0240-0250>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14024	3	2011	12	29	00:03--01:40	J3E/U	315	CLN		2 males	OF84wx	WIA
14024		2011	12	22	<0145-0155>	J3E/U		CLN	UNID	SRI LANKAN FISHERMEN IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14025.0	3	2011	12	14	0950	J1C				DAILY	QG52xi	WIA
14025	3	2011	12	15	<23:15--23:23	J3E/U	360	INS		Group of males	OF84wx	WIA
14025	3	2011	12	16	<23:30--23:55	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2011	12	19	23:00--23:25	J3E/U	315	CLN		Group of males	OF84wx	WIA
14025	3	2011	12	20	23:04--23:25	J3E/U	315	CLN		Group of males	OF84wx	WIA
14025	3	2011	12	22	22:07--23:25	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2011	12	26	23:40--00:18	J3E/U	315	CLN		Group of males	OF84wx	WIA
14025	3	2011	12	27	23:25--23:29	J3E/U	315	CLN		Group of males	OF84wx	WIA
14028	3	2011	12	17	08:00--08:22	J3E/U	360	INS		2 males	OF84wx	WIA
14034	3	2011	12	7	<08:25--09:05	J3E/L	315	CLN		2 males	OF84wx	WIA
14036.6	3	2011	12	12	07:30--08:00	J3E/U	315	CLN		2 males	OF84wx	WIA
14036.9	3	2011	12	12	0750	J3E/U				ASIAN	QG52xi	WIA
14040	3	2011	12	11	<23:30--23:36	J3E/L	315	CLN		2 males	OF84wx	WIA
14040.6	3	2011	12	22	<08:10--08:24	J3E/L	360	INS		2 males	OF84wx	WIA
14047.7	3	2011	12	22	1100	J3E/L				ASIAN	QG52xi	WIA
14048.0	3	2011	12	2	0650	J3E/U		PHL		DAILY, TAGALOG	QG52xi	WIA
14048	3	2011	12	3	07:25--07:31	J3E/U	360	INS		2 males	OF84wx	WIA
14048	3	2011	12	8	<07:42--08:05	J3E/U	360	INS		2 males	OF84wc	WIA
14048	3	2011	12	12	23:42--23:58	J3E/U	360	INS		2 males	OF84wx	WIA
14048	3	2011	12	16	22:45--23:20	J3E/U	360	INS		Group of males	OF84wx	WIA

14048	3	2011	12	23	<07:45--08:10	J3E/U	360	INS	Group of males	OF84wx	WIA
14048	3	2011	12	23	23:22--23:30	J3E/U	360	INS	2 males	OF84wx	WIA
14048	3	2011	12	24	<07:00--07:32	J3E/U	360	INS	Group of males	OF84wx	WIA
14048	3	2011	12	24	<22:50--23:23	J3E/U	360	INS	Group of males	OF84wx	WIA
14048	3	2011	12	25	06:20--06:42	J3E/U	360	INS	Group of males	OF84wx	WIA
14048	3	2011	12	26	08:04--08:20	J3E/U	360	INS	Group of males	OF84wx	WIA
14048	3	2011	12	27	<07:40--08:42	J3E/U	360	INS	Groyp of males	OF84wx	WIA
14049.0	3	2011	12	30	1030	J3E/L	315	CLN	ASIAN	QG52xi	WIA
14049	3	2011	12	29	<23:55--00:07	J3E/L			2 males	OF84wx	WIA
14049.2	3	2011	12	11	1210	J3E/U	315	CLN	ASIAN	QG52xi	WIA
14049.8	3	2011	12	17	<00:00--00:25	J3E/L			Group of males	OF84wx	WIA
14050.0	3	2011	12	25	0730	J3E/U	315	CLN	ASIAN	QG52xi	WIA
14050	3	2011	12	4	23:30--23:45	J3E/U			2 males	OF84wx	WIA
14050	3	2011	12	8	23:25--01:50	J3E/U	360	INS	2 males	OF84wx	WIA
14050.2	3	2011	12	20	2130	J3E/U	315	CLN	ASIAN	QG52xi	WIA
14050.4	3	2011	12	16	1000	J3E/L			ASIAN	QG52xi	WIA
14052.0	3	2011	12	15	0830	J3E/U			DAILY, ASIAN, SOUNDS	QG52xi	WIA
14052	3	2011	12	9	<07:35--08:45	J3E/U			CHINESE		
14052	3	2011	12	23	<07:45--08:00	J3E/L	360	ONS	2 males	OF84wx	WIA
14052.5	3	2011	12	8	<08:20--08:45	J3E/U	315	CLN	2 males	OF84wx	WIA
14052.5	3	2011	12	9	23:30--23:45	J3E/U	315	CLN	2 males	OF84wx	WIA
14058	3	2011	12	12	08:06--08:32	J3E/L	360	CHN	2 males	OF84wx	WIA
14058	3	2011	12	13	07:55--08:10	J3E/L	360	INS	2 males	OF84wx	WIA
14058	3	2011	12	14	<08:05--08:30	J3E/U	360	ChN	2 males	OF84wx	WIA
14058	3	2011	12	29	<08:05--08:16	J3E/L	360	CHN	2 males	OF84wx	WIA

14058.1	3	2011	12	7	0750		J3E/L				ASIAN, FAMILY NET	QG52xi	WIA	
14060.0	3	2011	12	11	1930-1010		J3E/L				DAILY, ASIAN	QG52xi	WIA	
14060	3	2011	12	8	<22:50--23:00		J3E/L	315	CLN		Group of males	OF84wx	WIA	
14060	3	2011	12	15	22:45--23:30		J3E/L	360	INS		2 males	OF84wx	WIA	
14060	3	2011	12	25	23:15--23:53		J3E/L	315	CLN		Group of males	OF84wx	WIA	
14060.3	3	2011	11	1	23:55--00:12		J3E/L	360	INS		2 males	OF84wx	WIA	
14062	10	2011	12	28	<0353>	0353	P0N	315	?	Unid	OTHR 66pps 2 second bursts	RF73MF	NZART	ZL1GWE
14066.5	3	2011	12	24	1105		J3E/U				ASIAN	QG52xi	WIA	
14067.7	3	2011	12	22	1100		J3E/U				ASIAN	QG52xi	WIA	
14070		2011	12	04	<0200-0210>		J3E/U		CHN	UNID	CHINESE SPEAKING OM CALLING IN CHINESE	MK82	ARSI	
14080.0	5	2011	12	12	0920		G7D				5 PAIRS SUBCARRIERS, 400 HZ APART, PAIRS APPROX 80 HZ	QG52xi	WIA	
14085.8	3	2011	12	20	<23:50--00:10		J3E/U	360	INS		2 males	OF84wx	WIA	
14086.0	5	2011	12	1	0840		G7D				5 PAIRS SUBCARRIERS, 400 HZ APART, PAIRS APPROX 80 HZ	QG52xi	WIA	
14086	3	2011	12	15	23:05--23:16		J3E/U	360	INS		2 males	OF84wx	WIA	
14086.5	3	2011	12	14	<22:45--23:03		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14086.6	3	2011	12	14	0950		J3E/U				ASIAN	QG52xi	WIA	
14089.0	3	2011	12	3	0800		J3E/U				ASIAN	QG52xi	WIA	
14090	50	2011	12	28	<1855>	1855	VXX		?	Unid	3.5 PPS	RF72LQ	NZART	ZL1BAD
14090	50	2011	12	29	<1905-2005>	1905-2005	VXX		?	Unid	3.5 PPS	RF72LQ	NZART	ZL1BAD
14091.6	3	2011	12	6	<08:10--08:36		J3E/U	315	CLN		2 males	OF84wx	WIA	
14091.6	3	2011	12	29	<08:22--08:31		J3E/U	360	CHN		Male-female	OF84wx	WIA	
14091.8	3	2011	12	22	<08:00--08:45		J3E/U	360	CHN		Male-female	OF84wx	WIA	
14092.0	3	2011	12	21	0820		J3E/U				ASIAN	QG52xi	WIA	
14092	3	2011	12	20	<08:05--00:50		J3E/U	360	INS		Male-female	OF84wx	WIA	
14092	3	2011	12	23	<08:20--08:40		J3E/U	360	chn		2 MALES	of84WX	WIA	
14097	3	2011	12	11	22:53--23:04		J3E/U	360	INS		Group of males	OF84wx	WIA	
14100.0	3	2011	12	22	1100		J3E/U				ASIAN	QG52xi	WIA	

14101.7	3	2011	12	23	23:42--00:10		J3E/L		360	INS		2 males	OF84wx	WIA
14105	30	2011	12	31	<1845-1945>	1845-1945	VXX			?	Unid	2 PPS - continuous		
14106	10	2011	12	28	<0353>	0353	P0N		315	?	Unid	OTHR 66pps 2 second bursts	RF72LQ	NZART ZL1BAD
14110.0	30	2011	12	6	1000		VXX					CODAR, SWEEPS 30 KHZ	RF73MF	NZART ZL1GWE
												5 PAIRS SUBCARRIERS, 400 HZ APART, PAIRS APPROX 80 HZ	QG52xi	WIA
14113.0	5	2011	12	1	0735		G7D					11 SUBCARRIERS 200 HZ APART, EACH PSK'D	QG52xi	WIA
14117.0	5	2011	12	22	1100		G7D					ASIAN	QG52xi	WIA
14124.2	3	2011	12	21	0820		J3E/U					4 SUBCARRIERS ON 300 HZ CENTRES, EACH PSK'D	QG52xi	WIA
14135.0	3	2011	12	12	0555		G7D					ASIAN	QG52xi	WIA
14136.0	3	2011	12	3	0800		J3E/U					OTHR 66pps 2 second bursts	QG52xi	WIA
14143.5	11	2011	12	28	<0353>	0353	P0N		315	?	Unid	OTHR 66 and 68 pps 2 second bursts	RF73MF	NZART ZL1GWE
14144	10	2011	12	28	<0436z>	0436	P0N		315	?	Unid	ASIAN	RF73MF	NZART ZL1GWE
14148.3	3	2011	12	17	0730		J3E/U					ASIAN	QG52xi	WIA
14177.6	3	2011	12	6	1005		J3E/U					Idling only	QG52xi	WIA
14191		2011	12	14	<1105>	1105	F1B		240	?	Unid	Idling only	RF72LQ	NZART ZL1BAD
14191		2011	12	19	<1345>	1345	F1B		240	?	Unid	ASIAN	RF72LQ	NZART ZL1BAD
14191.2	3	2011	12	22	1105		J3E/U					DAILY	QG52xi	WIA
14192.0	1	2011	12	12	0845		F1B	HIGH	500			3 sec. burst every 20 secs.	QG52xi	WIA
14210	20	2011	12	31	<0035>	0035	P0N			?	Unid	APPROX 50 SUBCARRIERS APPROX 80 HZ APART	RF72LQ	NZART ZL1BAD
14218.0	5	2011	12	3	0805		G7D					ASIAN	QG52xi	WIA
14218.1	3	2011	12	14	0955		J3E/U					OTHR S9 66 and 68 pps	QG52xi	WIA
14219	9	2011	12	28	<0456>	0456	P0N		315	?	Unid	OTHR, BURSTS	RF73MF	NZART ZL1GWE
14223.0	12	2011	12	30	0355		P0N					OTHR 66pps S5	QG52xi	WIA
14223.5	11	2011	12	30	<0339>	0339	P0N			?	Unid	OTHR 66pps S6-7	RF73MF	NZART ZL1GWE
14223.5	11	2011	12	30	<0339>	0339	P0N			?	Unid	BC	RF82BG	NZART ZL1DGK
14225		2011	12	31	<0920>	0920	A3E			?	Unid	ASIAN	RF73IH	NZART ZL1OGX
14236.7	3	2011	12	1	0735		J3E/U					ASIAN, FAMILY NET	QG52xi	WIA
14243.9	3	2011	12	22	1105		J3E/U					ASIAN, FAMILY NET	QG52xi	WIA
14250.0	3	2011	12	24	0910		J3E/U					ASIAN	QG52xi	WIA
14252.3	3	2011	12	6	1005		J3E/U					OTHR 2 second bursts S8	QG52xi	WIA
14266.5	8.5	2011	12	25	<0455>	0455	P0N			?	Unid	Male-female pass coded messages, (weather info)	RF73MF	NZART ZL1GWE
14277.7	3	2011	12	1	01:09--01:13		J3E/U		360	INS		2 males 1 female, pass coded messages,(weather info)	OF84wx	WIA
14277.7	3	2011	12	1	01:30--01:32		J3E/U		360	INS		Male-female pass coded messages, (weather info)	OF84wc	WIA
14277.7	3	2011	12	5	00:50--00:59		J3E/U		360	INS		Male-female no messages yet	OF84wx	WIA
14277.7	3	2011	12	6	03:11--03:16		J3E/U		360	INS				WIA

14277.7	3	2011	12	8	01:25--01:29	J3E/U		360	INS		Male-female pass coded messages,(weather info)	OF84wx	WIA	
14277.7	3	2011	12	15	00:50--00:51	J3E/U		360	INS		Male-female, no messages yet	OF84wx	WIA	
14277.7	3	2011	12	15	01:32--01:34	J3E/U		360	INS		Male-female, no messages yet	OF84wx	WIA	
14277.7	3	2011	12	15	01:45--01:46	J3E/U		360	INS		Male-female, no messages yet	OF84wx	WIA	
14277.7	3	2011	12	16	02:45--02:46	J3E/U		360	INS		Male-female, no messages	OF84wx	WIA	
14277.7	3	2011	12	27	02:37--02:38	J3E/U		360	INS		Male0-female No messages yet	OF84wx	WIA	
14285.0	8	2011	12	14	1915	A3E					SW BROADCAST	QG52xi	WIA	
14295.0	8	2011	12	3	1225	A3E			TDJ		RADIO TAJIKISTAN	QG52xi	WIA	
14295	5	2011	12	22	1130	A3E			UNID	UNID	Some broadcast from Asian country	NL06	ARSI	
14302	12	2011	12	28	<0353>	P0N	0353	315	?	Unid	OTHR 66pps 2 second bursts	RF73MF	NZART	ZL1GWE
14302.5	13	2011	12	25	<0455>	P0N	0455		?	Unid	OTHR 2 second bursts S8	RF73MF	NZART	ZL1GWE
14314.4	3	2011	12	6	1005	J3E/U					ASIAN	QG52xi	WIA	
14321.1	3	2011	12	25	0940	J3E/U					ASIAN	QG52xi	WIA	
14338.0	1	2011	12	12	0850	F1B		800				QG52xi	WIA	
14340.0	1	2011	12	14	1000	F1B		850				QG52xi	WIA	
14342	22	2011	12	25	<0455>	P0N	0455		?	Unid	OTHR 2 second bursts S8	RF73MF	NZART	ZL1GWE
14342.5	1	2011	12	12	0640	F1B		600				QG52xi	WIA	
14343.0	6	2011	12	22	1110	G7D					APPROX 50 SUBCARRIERS APPROX 80 HZ APART	QG52xi	WIA	
14344.5	11	2011	12	28	<0353.	P0N	0353	315	?	Unid	OTHR 66pps S9	RF73MF	NZART	ZL1GWE
14347.0	3	2011	12	15	0900	J3E/U					ASIAN, SOUNDS CHINESE	QG52xi	WIA	
14347	12	2011	12	28	<0456>	P0N	0456	315	?	Unid	OTHR 66 and 68 pps 2 second bursts	RF73MF	NZART	ZL1GWE
14348.0	5	2011	12	1	0735	G7D					5 PAIRS SUBCARRIERS, 400 HZ APART, PAIRS APPROX 80 HZ	QG52xi	WIA	
14800	12	2011	12	28	<0456>	P0N	0456	315	?	Unid	OTHR 66 and 68 pps 2 second bursts	RF73MF	NZART	ZL1GWE
18068.5	35	2011	12	11	<0539>	P0N	0539-0540	315	?	Unid	OTHR S9++ FMCW - suspected to be ZC4 - Cyprus	RF73MF	NZART	ZL1GWE
21047.8		2011	12	2	0930	A1A			RU	C	HARBOUR BEACON?	QG52xi	WIA	
21111.2	3	2011	12	14	0945	J3E/U					ASIAN, SOUNDS CHINESE	QG52xi	WIA	
21134.0	1	2011	12	8	0620	F1B		600			A TOR MODE FOLLOWED BY CONVENTIONAL RTTY	QG52xi	WIA	
21140.0	20	2011	12	28	0650	P0N					OTHR, 41PPS	QG52xi	WIA	
21147	11	2011	12	28	<0515>	P0N	0515	315	?	Unid	OTHR S9 FMCW 3 second bursts 40 pps	RF73MF	NZART	ZL1GWE
21154.0	3	2011	12	16	0930	J3E/L					DAILY, ASIAN	QG52xi	WIA	

21216	20	2011	12	28	<0515>	0515	P0N	315	?	Unid	OTHR 18.5 second bursts	RF73MF	NZART	ZL1GWE
21230.0	25	2011	12	17	0700		P0N				OTHR	QG52xi	WIA	
21270.0	20	2011	12	8	<1000-1100>		P0N				OHR PRF 50Hz Continuous	QD22MA	WIA	VK3MV
21328	24	2011	12	29	<0630>	0530	P0N		?	Unid	OTHR S9	RF73IJ	NZART	ZL1TPH
21328	24	2011	12	29	<0635>	0535	P0N		?	Unid	OTHR S9	RF82BG	NZART	ZL1DGK
21340.0	8	2011	12	1	0730		A3E				DAILY, SW BROADCAST	QG52xi	WIA	
21346		2011	12	11	<0441>	0441	P0N		?	Unid	OTHR S1 40 pps	RF82BG	NZART	ZL1DGK
21347	11	2011	12	27	<0439>	0439	P0N		?	Unid	OTHR S5 40 pps	RF73MF	NZART	ZL1GWE
21370.0	80	2011	12	8	0900		P0N				OTHR	QG52xi	WIA	
											OTHR 50 PPS S9 -FMCW suspected to be ZC4 - Cyprus			
21380.5	61	2011	12	27	<0449>	0449	P0N		?	Unid		RF73MF	NZART	ZL1GWE
21402		2011	12	27	<0440>	0440	P0N		?	Unid	OTHR S9 FMCW 40 pps	RF73MF	NZART	ZL1GWE
21437.5	6	2011	12	3	0815		A3E				ASIAN	QG52xi	WIA	
21450.0	8	2011	12	4	0505		A3E				RADIO FREE ASIA	QG52xi	WIA	
											SW BROADCAST, SOUNDS CHINESE, DOGPILE WITH			
21450.0	8	2011	12	4	0505		A3E				ABOVE	QG52xi	WIA	
21450	10	2011	12	04	<0425>	0425	A3E		USA	RFA	Radio Free Asia according to HFCC database	RF73MF	NZART	ZL1GWE
24905.0	6	2011	12	4	0005		A3E				ASIAN	QG52xi	WIA	
24912.5	6	2011	12	29	0115		A3E				ASIAN	QG52xi	WIA	
24915.0	6	2011	12	5	1005		A3E				ASIAN	QG52xi	WIA	
24925.0	6	2011	12	17	0915		F3E				ASIAN	QG52xi	WIA	
24935.0	6	2011	12	12	0600		A3E				ASIAN	QG52xi	WIA	
24950.0	6	2011	12	2	0930		A3E				ASIAN	QG52xi	WIA	
24955.0	6	2011	12	14	0940		A3E				ASIAN	QG52xi	WIA	
24962.5	6	2011	12	5	1000		A3E				ASIAN	QG52xi	WIA	
24965.0	6	2011	12	26	0855		A3E				ASIAN	QG52xi	WIA	
24975.0	6	2011	12	26	2335		A3E				ASIAN	QG52xi	WIA	
24987.5	6	2011	12	17	0915		A3E				ASIAN	QG52xi	WIA	
28000.0	6	2011	12	1	0810		A3E				ASIAN	QG52xi	WIA	
28000		2011	12	23	<0606>	0606	A3E		?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE
28005.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA	
28005		2011	12	23	<0607>	0607	A3E		?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE
28010.0	50	2011	12	16	0900		P0N				OTHR	QG52xi	WIA	
28015.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA	
											CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.			
28016.3		2011	12	19	<0155-0220>		A3E		CHN	UNID	Non Amateurs S1	MK82	ARSI	
28020		2011	12	23	<0607>	0607	A3E		?	Unid		RF73MF	NZART	ZL1GWE
28025.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA	
28030.0	6	2011	12	26	0740		A3E				ASIAN	QG52xi	WIA	
28035.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA	
28037.5	6	2011	12	18	0715		A3E				ASIAN	QG52xi	WIA	

										ASIAN						
28045.0	6	2011	12	1	0810		A3E					QG52xi	WIA			
28050.0	6	2011	12	1	0725		A3E					QG52xi	WIA			
28050		2011	12	17	<0612>	0612	F3E	45	?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE		
28052.8		2011	12	3	2150		A1A			4LDO	DRIFTNET BEACON	QG52xi	WIA			
28055.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28065.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28070.0	6	2011	12	1	0810		A3E				ASIAN	QG52xi	WIA			
28075.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28080		2011	12	23	<0549>	0529	A3E		?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE		
28084.5		2011	12	23	<0550>	0550	A3E		?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE		
28085.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28088.7		2011	12	8	0705		A1A			5ABK	DRIFTNET BEACON	QG52xi	WIA			
28100.0	6	2011	12	5	0950		A3E				ASIAN	QG52xi	WIA			
28105.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28106		2011	12	23	<0552>	0552	A3E		?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE		
28115.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28120.0	40	2011	12	8	0840		P0N				OTHR	QG52xi	WIA			
28125.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
											CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.					
28125.5		2011	12	19	<0155-0220>		A3E		CHN	UNID		MK82	ARSI			
28135.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28137.5	6	2011	12	18	0715		A3E				ASIAN	QG52xi	WIA			
28145.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
											CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.					
28146.5		2011	12	19	<0155-0220>		A3E		CHN	UNID		MK82	ARSI			
28150.0	20	2011	12	12	0040		P0N				OTHR	QG52xi	WIA			
28150.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28155.0	6	2011	12	1	0725		A3E				ASIAN	QG52xi	WIA			
28160.0	80	2011	12	26	0720		P0N				OTHR, 41PPS, FMCW	QG52xi	WIA			
28160.0	6	2011	12	5	0950		A3E				ASIAN	QG52xi	WIA			
28162.5	6	2011	12	18	0710		A3E				ASIAN	QG52xi	WIA			
28165.0	6	2011	12	1	0720		A3E				ASIAN	QG52xi	WIA			
											OTHR S5 PMCW moves up and down in frequency 40 and 50 pps bursts					
28173	64	2011	12	26	<0538>	1738	P0N		?	Unid		RF73MF	NZART	ZL1GWE		
28175.0	6	2011	12	1	0720		F3E				ASIAN	QG52xi	WIA			
28175	64	2011	12	26	<0538>	1738	P0N		?	Unid	OTHR S8 PMCW	RF73IJ	NZART	ZL1TPH		
											OTHR S5 PMCW moves up and down in frequency					
28175	64	2011	12	26	<0538>	1738	P0N		?	Unid		RF82BG	NZART	ZL1DGK		
28185.0	6	2011	12	1	0720		A3E				ASIAN	QG52xi	WIA			
28187.5	6	2011	12	5	0945		A3E				ASIAN	QG52xi	WIA			

28195.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28195		2011	12	23	<0553.	0553	A3E	?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE
28200.0	6	2011	12	5	0945		A3E			ASIAN	QG52xi	WIA	
										OTHR S7 40 and 50 pps burstschanges frequency 5 kHz variance			
28200	64	2011	12	26	<0630>	0630	P0N	?	Unid		RF73MF	NZART	ZL1GWE
28205.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28212.5	6	2011	12	5	0945		A3E			ASIAN	QG52xi	WIA	
28215.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28225.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28230.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28235.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO			
28237.1		2011	12	19	<0155-0220>		A3E	CHN	UNID	OPERATORS.	MK82	ARSI	
28237.5	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28245.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28246		2011	12	23	<0553>	0553	A3E	?	Unid	Non Amateurs S1	RF73MF	NZART	ZL1GWE
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO			
28247.4		2011	12	19	<0155-0220>		A3E	CHN	UNID	OPERATORS.	MK82	ARSI	
28249		2011	12	17	<0612>	0612	F3E	?	Unid	Non Amateurs with QSB strong	RF73IJ	NZART	ZL1TPH
28250.0	6	2011	12	5	0945		A3E			ASIAN	QG52xi	WIA	
28255.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
28265.0	6	2011	12	1	0720		A3E			ASIAN	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO			
28265.5		2011	12	19	<0155-0220>		A3E	CHN	UNID	OPERATORS.	MK82	ARSI	
28270.0	6	2011	12	8	0840		A3E			ASIAN	QG52xi	WIA	
28275.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28280.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28285.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28287.5	6	2011	12	8	0840		A3E			ASIAN	QG52xi	WIA	
28295.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28300.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28305.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28310.0	6	2011	12	1	0805		A3E			ASIAN	QG52xi	WIA	
28315.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
28325.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO			
28327.1		2011	12	20	<0210-0240>		A3E	CHN	UNID	OPERATORS.	MK82	ARSI	
28335.0	6	2011	12	1	0715		A3E			ASIAN	QG52xi	WIA	

28335.2		2011	12	20	<0210-0240>	A3E		CHN	UNID	CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.	MK82	ARSI	
28345.0	6	2011	12	14	0940	A3E				ASIAN	QG52xi	WIA	
28350.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28355.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28357.7		2011	12	6	0940	A1A			4REL	DRIFTNET BEACON	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.			
28357.8		2011	12	20	<0210-0240>	A3E		CHN	UNID	ASIAN	MK82	ARSI	
28360.0	6	2011	12	8	0835	A3E				ASIAN	QG52xi	WIA	
28362.5	6	2011	12	12	0905	A3E				ASIAN	QG52xi	WIA	
28365.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28365		2011	12	23	<0555>	A3E	0555	?	Unid	Non Amateurs	RF73MF	NZART	ZL1GWE
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.			
28365.4		2011	12	20	<0210-0240>	A3E		CHN	UNID	ASIAN	MK82	ARSI	
28375.0	6	2011	12	1	0715	F3E				ASIAN	QG52xi	WIA	
28385.0	6	2011	12	1	0805	A3E				ASIAN	QG52xi	WIA	
28395.0	6	2011	12	16	0920	A3E				ASIAN	QG52xi	WIA	
28400.0	6	2011	12	2	0915	F3E				ASIAN	QG52xi	WIA	
28405.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.			
28406		2011	12	20	<0210-0240>	A3E		CHN	UNID	OTHER 50 PPS S9 -FMCW suspected to be ZC4 - Cyprus	MK82	ARSI	
28410	34	2011	12	04	<0715>	P0N	0715	315	?	Unid	RF73MF	NZART	ZL1GWE
28415.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28425.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.			
28425.5		2011	12	20	<0210-0240>	A3E		CHN	UNID	ASIAN	MK82	ARSI	
28435.0	6	2011	12	1	0805	A3E				ASIAN	QG52xi	WIA	
28450.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28455.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28465.0	6	2011	12	1	0805	A3E				ASIAN	QG52xi	WIA	
28475.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28485.0	6	2011	12	1	0715	A3E				ASIAN	QG52xi	WIA	
28487.5	6	2011	12	5	0830	A3E				ASIAN	QG52xi	WIA	
28495.0	6	2011	12	8	0835	A3E				ASIAN	QG52xi	WIA	
										CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.			
28504.4		2011	12	20	<0210-0240>	A3E		CHN	UNID		MK82	ARSI	

28505.0	6	2011	12	1	0715	A3E			ASIAN	QG52xi	WIA
28512.5	6	2011	12	6	0935	A3E			ASIAN	QG52xi	WIA
28515.0	6	2011	12	2	0915	A3E			ASIAN	QG52xi	WIA
28525.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
									CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.		
28526.3		2011	12	21	<0200-0230>	A3E	CHN	UNID	ASIAN	MK82	ARSI
28535.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
									CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.		
28536.7		2011	12	21	<0200-0230>	A3E	CHN	UNID	ASIAN	MK82	ARSI
28550.0	6	2011	12	25	1000	A3E			ASIAN	QG52xi	WIA
28555.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28565.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28575.0	6	2011	12	1	0955	A3E			ASIAN	QG52xi	WIA
									CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.		
28576.4		2011	12	21	<0200-0230>	A3E	CHN	UNID	ASIAN	MK82	ARSI
28585.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28595.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28600.0	6	2011	12	5	0930	F3E			ASIAN	QG52xi	WIA
28605.0	6	2011	12	1	0800	A3E			ASIAN	QG52xi	WIA
28612.5	6	2011	12	5	0925	A3E			ASIAN	QG52xi	WIA
28615.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28625.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28635.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28637.5	6	2011	12	5	0940	A3E			ASIAN	QG52xi	WIA
28645.0	6	2011	12	2	0915	A3E			ASIAN	QG52xi	WIA
28650.0	40	2011	12	1	0800	P0N			OTHR	QG52xi	WIA
28655.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28665.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28675.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28685.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28695.0	6	2011	12	1	0800	A3E			ASIAN	QG52xi	WIA
28700.0	6	2011	12	4	1000	A3E			ASIAN	QG52xi	WIA
28705.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28712.5	6	2011	12	3	0830	A3E			ASIAN	QG52xi	WIA
28715.0	6	2011	12	2	0910	A3E			ASIAN	QG52xi	WIA
28725.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
									CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO OPERATORS.		
28726		2011	12	21	<0200-0230>	A3E	CHN	UNID	ASIAN	MK82	ARSI
28735.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA
28737.5	6	2011	12	4	0955	A3E			ASIAN	QG52xi	WIA

28745.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA		
									CHINESE TWO WAY COMMUNICATION BY NON AMATEUR RADIO				
28747.3		2011	12	21	<0200-0230>	A3E	CHN	UNID	OPERATORS.	MK82	ARSI		
28750.0	6	2011	12	4	0955	A3E			ASIAN	QG52xi	WIA		
28755.0	6	2011	12	1	0710	A3E			ASIAN	QG52xi	WIA		
28760.0	6	2011	12	8	0830	A3E			ASIAN	QG52xi	WIA		
28762.5	6	2011	12	3	0830	A3E			ASIAN	QG52xi	WIA		
28765.0	6	2011	12	2	0910	A3E			ASIAN	QG52xi	WIA		
28770.0	6	2011	12	6	0930	A3E			ASIAN	QG52xi	WIA		
28775.0	6	2011	12	1	0705	A3E			ASIAN	QG52xi	WIA		
28787.5	6	2011	12	14	0935	A3E			ASIAN	QG52xi	WIA		
28795.0	6	2011	12	1	0800	A3E			ASIAN	QG52xi	WIA		
28800.0	6	2011	12	4	0935	A3E			ASIAN	QG52xi	WIA		
28812.5	6	2011	12	2	0905	A3E			ASIAN	QG52xi	WIA		
28825.0	6	2011	12	1	0800	A3E			ASIAN	QG52xi	WIA		
28835.0	6	2011	12	1	0800	A3E			ASIAN	QG52xi	WIA		
28837.5	6	2011	12	4	0935	A3E			ASIAN	QG52xi	WIA		
28850.0	6	2011	12	1	0800	F3E			ASIAN	QG52xi	WIA		
28862.5	6	2011	12	1	0705	A3E			ASIAN	QG52xi	WIA		
28865.0	6	2011	12	18	0705	A3E			ASIAN	QG52xi	WIA		
28875.0	6	2011	12	1	0705	A3E			ASIAN	QG52xi	WIA		
28880.0	6	2011	12	1	0705	A3E			ASIAN	QG52xi	WIA		
28885.0	6	2011	12	2	0905	A3E			ASIAN	QG52xi	WIA		
28887.5	6	2011	12	4	0935	A3E			ASIAN	QG52xi	WIA		
28900.0	6	2011	12	4	0935	A3E			ASIAN	QG52xi	WIA		
28912.5	6	2011	12	3	0830	A3E			ASIAN	QG52xi	WIA		
28920.0	6	2011	12	6	0925	A3E			ASIAN	QG52xi	WIA		
28925.0	6	2011	12	1	0705	A3E			ASIAN	QG52xi	WIA		
28937.5	6	2011	12	1	0755	A3E			ASIAN	QG52xi	WIA		
28950.0	6	2011	12	1	0705	A3E			ASIAN	QG52xi	WIA		
28955.0	6	2011	12	1	0755	A3E			ASIAN	QG52xi	WIA		
28960.0	6	2011	12	1	0755	A3E			ASIAN	QG52xi	WIA		
28962.5	6	2011	12	3	0830	A3E			ASIAN	QG52xi	WIA		
28975.0	6	2011	12	4	0935	A3E			ASIAN	QG52xi	WIA		
28985.0	6	2011	12	1	0755	A3E			ASIAN	QG52xi	WIA		
28987.5	6	2011	12	2	0905	A3E			ASIAN	QG52xi	WIA		
29000.0	6	2011	12	3	0825	A3E			ASIAN	QG52xi	WIA		
29005.0	6	2011	12	3	0825	A3E			ASIAN	QG52xi	WIA		
29012.5	6	2011	12	3	0825	A3E			ASIAN	QG52xi	WIA		
29015.0	6	2011	12	26	0725	A3E			ASIAN	QG52xi	WIA		
29020.0	6	2011	12	4	0825	F3E			ASIAN	QG52xi	WIA		
									Non Amateurs ? Japanese				
29020		2011	12	23	<0601>	0601	F3E	?	Unid	YLS and OM no call signs	RF73MF	NZART	ZL1GWE
29025.0	6	2011	12	1	0755	A3E			ASIAN	QG52xi	WIA		

29037.5	6	2011	12	4	0915	A3E	ASIAN	QG52xi	WIA
29045.0	6	2011	12	1	0755	A3E	ASIAN	QG52xi	WIA
29050.0	6	2011	12	4	0910	A3E	ASIAN	QG52xi	WIA
29062.5	6	2011	12	4	0910	A3E	ASIAN	QG52xi	WIA
29070.0	6	2011	12	8	0745	A3E	ASIAN	QG52xi	WIA
29075.0	6	2011	12	1	0705	F3E	ASIAN	QG52xi	WIA
29087.5	6	2011	12	5	0900	A3E	ASIAN	QG52xi	WIA
29095.0	6	2011	12	3	0825	A3E	ASIAN	QG52xi	WIA
29100.0	6	2011	12	3	0825	A3E	ASIAN	QG52xi	WIA
29112.5	6	2011	12	2	0905	A3E	ASIAN	QG52xi	WIA
29120.0	6	2011	12	7	0735	A3E	ASIAN	QG52xi	WIA
29125.0	6	2011	12	1	0755	A3E	ASIAN	QG52xi	WIA
29140.0	6	2011	12	5	0850	A3E	ASIAN	QG52xi	WIA
29150.0	6	2011	12	1	0750	A3E	ASIAN	QG52xi	WIA
29162.5	6	2011	12	4	0855	A3E	ASIAN	QG52xi	WIA
29175.0	6	2011	12	3	0825	F3E	ASIAN	QG52xi	WIA
29187.5	6	2011	12	4	0850	A3E	ASIAN	QG52xi	WIA
29200.0	6	2011	12	3	0825	A3E	ASIAN	QG52xi	WIA
29212.5	6	2011	12	4	0850	A3E	ASIAN	QG52xi	WIA
29215.0	6	2011	12	8	0735	A3E	ASIAN	QG52xi	WIA
29217.5	6	2011	12	1	0750	A3E	ASIAN	QG52xi	WIA
29225.0	6	2011	12	1	0705	A3E	ASIAN	QG52xi	WIA
29230.0	6	2011	12	8	0735	A3E	ASIAN	QG52xi	WIA
29235.0	6	2011	12	1	0750	A3E	ASIAN	QG52xi	WIA
29237.5	6	2011	12	4	0850	A3E	ASIAN	QG52xi	WIA
29240.0	6	2011	12	6	0920	A3E	ASIAN	QG52xi	WIA
29250.0	6	2011	12	1	0750	F3E	ASIAN	QG52xi	WIA
29255.0	6	2011	12	14	0925	F3E	ASIAN	QG52xi	WIA
29260.0	6	2011	12	18	0700	A3E	ASIAN	QG52xi	WIA
29275.0	6	2011	12	4	0840	A3E	ASIAN	QG52xi	WIA
29280.0	6	2011	12	3	0825	A3E	ASIAN	QG52xi	WIA
29287.5	6	2011	12	5	0845	A3E	ASIAN	QG52xi	WIA
29290.0	6	2011	12	2	0905	A3E	ASIAN	QG52xi	WIA
29300.0	6	2011	12	4	0835	A3E	ASIAN	QG52xi	WIA
29312.5	6	2011	12	5	0835	A3E	ASIAN	QG52xi	WIA
29325.0	6	2011	12	1	0700	A3E	ASIAN	QG52xi	WIA
29337.5	6	2011	12	6	0920	A3E	ASIAN	QG52xi	WIA
29350.0	6	2011	12	1	0750	F3E	ASIAN	QG52xi	WIA
29362.5	6	2011	12	4	0825	A3E	ASIAN	QG52xi	WIA
29375.0	6	2011	12	3	0820	A3E	ASIAN	QG52xi	WIA
29385.0	6	2011	12	29	0115	A3E	ASIAN	QG52xi	WIA
29387.5	6	2011	12	2	0900	A3E	ASIAN	QG52xi	WIA
29400.0	8	2011	12	2	0900	A3E	ASIAN, SW BROADCAST	QG52xi	WIA
29412.5	6	2011	12	4	0825	A3E	ASIAN	QG52xi	WIA
29425.0	6	2011	12	1	0700	A3E	ASIAN	QG52xi	WIA

29437.5	6	2011	12	4	0825	A3E	ASIAN	QG52xi	WIA
29450.0	6	2011	12	4	0800	A3E	ASIAN	QG52xi	WIA
29462.5	6	2011	12	4	0800	A3E	ASIAN	QG52xi	WIA
29475.0	6	2011	12	2	0900	A3E	ASIAN	QG52xi	WIA
29500.0	6	2011	12	1	0750	F3E	ASIAN	QG52xi	WIA
29512.5	6	2011	12	4	0755	A3E	ASIAN	QG52xi	WIA
29525.0	6	2011	12	4	0815	A3E	ASIAN	QG52xi	WIA
29537.5	6	2011	12	4	0755	A3E	ASIAN	QG52xi	WIA
29550.0	6	2011	12	1	0700	A3E	ASIAN	QG52xi	WIA
29555.0	6	2011	12	15	0925	A3E	ASIAN	QG52xi	WIA
29562.5	6	2011	12	4	0810	A3E	ASIAN	QG52xi	WIA
29575.0	6	2011	12	1	0750	A3E	ASIAN	QG52xi	WIA
29587.5	6	2011	12	5	0825	A3E	ASIAN	QG52xi	WIA
29592.5	8	2011	12	14	0920	A3E	SW BROADCAST, VERY LOW MODULATION	QG52xi	WIA
29610.0	6	2011	12	14	0920	A3E	ASIAN	QG52xi	WIA
29612.5	6	2011	12	4	0755	A3E	ASIAN	QG52xi	WIA
29625.0	6	2011	12	3	0820	A3E	ASIAN	QG52xi	WIA
29635.0	6	2011	12	6	0915	A3E	ASIAN	QG52xi	WIA
29637.5	6	2011	12	1	0700	A3E	ASIAN	QG52xi	WIA
29650.0	6	2011	12	4	0800	A3E	ASIAN	QG52xi	WIA
29662.5	6	2011	12	4	0800	A3E	ASIAN	QG52xi	WIA
29675.0	6	2011	12	2	0900	A3E	ASIAN	QG52xi	WIA
29687.5	6	2011	12	2	0900	A3E	ASIAN	QG52xi	WIA
29700.0	6	2011	12	1	0750	F3E	ASIAN	QG52xi	WIA