



INTERNATIONAL AMATEUR RADIO UNION

REGION THREE

MONITORING SYSTEM REPORT



November 2010

Peter Young VK3MV

Reports for November have been received from ARSI, NZART, JARL and WIA.

This month there were 918 observations made. Some multiple loggings of the same station/freq have been deleted.

NZART has reported a multiple channel OTHR that is being heard in NZ, Japan and Australia during greyline activity on 40 meters between 7.000kHz up to 7200kHz which sounds like a tractor approximately 43 PPS, but not your normal OTHR multiple signals from 4 through to 80 or more KHz in bandwidth. It also shifts or reduces or even removes multiple sessions - dynamically. It appears to be coming from a North West direction from NZ often up to S9 and increases as darkness descends.

This system is believed Stereo Radar system commonly known as an OTHSAR system used for detecting airborne targets. Further reports are requested, particularly bearing information. This intruder has been reported to the Australian spectrum regulator (ACMA).

For those who would like a CSV file of data please email me at: yk3mv@wia.org.au

Thank you to all the regional observers for their reports. Keep them coming.

Seasons Greetings and Best Wishes for a Happy New Year.

Peter – VK3MV

kHz	BW	YYYY	MM	DD	GMT	UTC	Emm	Bd	Sft	Hdg	ADM	ID	Description	Grid	Society	Notes
3552.00	6	2010	11	16		23:00							Japanese song with no call		JARL	
3560	3	2010	11	01	0830		A3E			321	KRE	Voice of Korea	Chinese Talk and Music		JARL	Kujang
3560	5	2010	11	01	1020		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	01	1206		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	01	1406		A3E			321	KRE	Voice of Korea	French Talk and Music		JARL	Kujang
3560	5	2010	11	01	1610		A3E			321	KRE	Voice of Korea	French Talk and Music		JARL	Kujang
3560	5	2010	11	01	1804		A3E			321	KRE	Voice of Korea	English Talk and Music		JARL	Kujang
3560	3	2010	11	04	0924		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	04	1044		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	04	1208		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	04	1610		A3E			321	KRE	Voice of Korea	French Talk and Music		JARL	Kujang
3560	5	2010	11	04	1930		A3E			321	KRE	Voice of Korea	Spanish Talk and Music		JARL	Kujang
3560	3	2010	11	04	2210		A3E			321	KRE	Voice of Korea	Spanish Talk and Music		JARL	Kujang
3560	3	2010	11	05	0744		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	05	0932		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	05	1032		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	05	1224		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	05	1610		A3E			321	KRE	Voice of Korea	French Talk and Music		JARL	Kujang
3560	5	2010	11	05	1802		A3E			321	KRE	Voice of Korea	English Talk and Music		JARL	Kujang
3560	3537.5	2010	11	06	21:50	<21:50>	A3E 3				KRE		VOICE		JARL	
3560	5	2010	11	06	0916		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	06	1012		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	06	1204		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	06	1604		A3E			321	KRE	Voice of Korea	Korean Talk and Music		JARL	Kujang
3560	5	2010	11	06	1804		A3E			321	KRE	Voice of Korea	English Talk and Music		JARL	Kujang
3560	5	2010	11	06	2004		A3E			321	KRE	Voice of Korea	French Talk and Music		JARL	Kujang

3560	3537.5	2010	11	07	21:00	<21:00>	A3E 3		KRE		VOICE.MUSIC	JARL		
3786		2010	11	15	<0720>	0720	J3E/U		?	Unid	Non-Amateurs Asian language S9 +20dB	RF81WM	NZART	ZL2CC
7000.0	3	2010	11	18	0635-1000		J3E/U		INS		DAILY, VILLAGE RADIO SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	
7008		2010	11	15	<0200-0210>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7011		2010	11	22	<0215-0225>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7012.5		2010	11	02	<0335-0345>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7014	3	2010	11	06	2012		F1B	non	non	non	IDL only	JARL		non
7017		2010	11	06	<0305-0310>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7017		2010	11	22	<0215-0225>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7017	34	2010	11	05	1814		P0N	non	non	non	7000KHz ~ 7134KHz wide pulse mode P0N OTHR ?	JARL		non
7018	3	2010	11	02	1518		F1B	non	non	non	IDL only	JARL		non
7018	3	2010	11	02	1836		F1B	non	non	non	IDL only	JARL		non
7018	3	2010	11	04	2214		F1B	non	non	non	IDL only	JARL		non
7025		2010	11	18	<0215-0225>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7028	3	2010	11	14	1924		F1B	non	non	non	IDL only	JARL		non
7030	4	2010	11	30	<0822>	0822-0828	P0N	330	?	Unid	OTHR 45 PPS constant multiple frequencies FM system S7 - tractor	RF73MF	NZART	ZL1GWE
7034		2010	11	13	<0235-0245>		J3E/L		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7035		2010	11	21	<0150-0155>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7038.49	0.5	2010	11	20		21:47					Train of " M "	JARL		
7038.7		2010	11	18	0810		A1A		RU	M	HARBOUR BEACON	QG52xi	WIA	
7038.81	0.5	2010	11	20		21:48					Train of " F "	JARL		
7038.89	0.5	2010	11	15		22:05					Train of " M "	JARL		
7039.0		2010	11	18	0810		A1A		RU	K	HARBOUR BEACON	QG52xi	WIA	
7039	0.5	2010	11	01	0012	H24	A1A	321	RUS	K--signal	Beacon	PM97	JARL	Petropavlovs
7039	0.5	2010	11	01	0014	H24	A1A	321	RUS	M--signal	Beacon		JARL	Magadan
7039	0.5	2010	11	01	0108	h24	A1A	321	RUS	F--signal	Beacon		JARL	Magadan
7039.14	0.5	2010	11	11		21:58					Train of " M "	JARL		

7039.14	0.5	2010	11	11	21:59					Train of " F "		JARL	
7039.2		2010	11	18 0810		A1A		RU	F	HARBOUR BEACON	QG52xi	WIA	
7039.20	0.5	2010	11	15	22:03					Train of " F "		JARL	
7039.22	0.5	2010	11	15	22:03					Train of " K "		JARL	
7039.38	6	2010	11	18	22:09					Train of " M "		JARL	
7039.53	0.5	2010	11	11	21:57					Train of " K "		JARL	
7040		2010	11	02 <0300-0305>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7044	3	2010	11	04 1938		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	05 1040		F1B	non	non	non	now on air		JARL	non
7044	3	2010	11	05 1232		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	05 1616		F1B	non	non	non	now on air		JARL	non
7044	3	2010	11	05 1810		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	06 1612		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	06 1812		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	06 2014		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	11 1614		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	11 2214		F1B	non	non	non	IDL only		JARL	non
7044	3	2010	11	15 1834		F1B	non	non	non	IDL only		JARL	non
7057		2010	11	02 <1155-1205>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7075	22	2010	11	28 <1355>	1355- 1444	P0N		CHN	Unid	swamped by Hainan OTHR at 43.1 ppsec	RF72IS	NZART	ZL1BYA
7075.5	34	2010	11	26 <0948>	0948- 1135	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA
7077	34	2010	11	02 1524		P0N	non	non	non	7060KHz ~ 7094KHz wide pulse mode P0N OTHR ?		JARL	non
7077	38	2010	11	02 1840		P0N	non	non	non	7058KHz ~ 7096KHz wide pulse mode P0N OTHR ?		JARL	non
7077	34	2010	11	03 1514		P0N	non	non	non	7060KHz ~ 7094KHz wide pulse mode P0N OTHR ?		JARL	non
7077	34	2010	11	14 1928		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?		JARL	non
7077	34	2010	11	23 1810		P0N	non	non	non	7060KHz ~ 7094KHz wide pulse mode P0N OTHR ?		JARL	non
7077.5	35	2010	11	20 <0954>	0954- 1147	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA
7078	60	2010	11	14 <1029>-	1029- 1034	P0N		?	Unid	Short five minute burst of unknown type radar	RF72IS	NZART	ZL1BYA
7080.5	35	2010	11	16 <1000>	1000- 1120	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA
7080.8		2010	11	22 <0215-0220>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA	MK82	ARSI	

LANGUAGE ONLY – 2 OM

7083	34	2010	11	01	0840		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	01	1030		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	04	1942		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	05	0940		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	05	1044		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	05	1236		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	11	1620		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	17	2040		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	26	1210		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	27	1620		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7083	34	2010	11	29	1810		P0N	non	non	non	7066KHz ~ 7100KHz wide pulse mode P0N OTHR ?	JARL	non	
7084	33	2010	11	05	<1044>	1044-1140	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA
7084	34	2010	11	05	1620		P0N	non	non	non	7160KHz ~ 7194KHz wide pulse mode P0N OTHR ?	JARL	non	
7085.5	35	2010	11	27	<1005>	1005-1140	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA
7089	34	2010	11	27	1030		P0N	non	non	non	7072KHz ~ 7106KHz wide pulse mode P0N OTHR ?	JARL	non	
7089	34	2010	11	27	1210		P0N	non	non	non	7072KHz ~ 7106KHz wide pulse mode P0N OTHR ?	JARL	non	
7090		2010	11	02	<0335-0345>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7093	38	2010	11	28	<0930>	0930-1444	P0N		CHN	Unid	OTHR at 43.1 ppsec	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1001>	1001	FSK8		UZK	1101	Uzbekistan military ALE net.	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1258>	1258	FSK8		UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1325>	1325	FSK8		UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1341>	1341	FSK8		UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1341.38>	1341.38	FSK8		UZK	110	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1409>	1409	FSK8		UZK	1103	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1411>	1411	FSK8		UZK	1101	Sounding	RF72IS	NZART	ZL1BYA

7095		2010	11	02	<1411.35>	1411.35	FSK8			UZK	110	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1538>	1538	FSK8			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1538.49>	1538.49	FSK8			UZK	1104	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1547.09>	1547.09	FSK8			UZK	1104	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1547.40>	1547.40	FSK8			UZK	1111	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1603>	1603	FSK8			UZK	1111	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1603.40>	1603.40	FSK8			UZK	1111	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1610>	1610	FSK9			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1639>	1639	FSK8			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1705>	1705	FSK8			UZK	1111	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1715>	1715	FSK8			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1740>	1740	FSK8			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1740.26>	1740.26	FSK8			UZK	110	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1740.30>	1740.30	FSK8			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1753>	1753	FSK8			UZK	1110	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1811>	1811	FSK8			UZK	1101	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	02	<1811.26>	1811.26	FSK8			UZK	110	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	06	<1106>	1106	FSK8			UZK	1111	Sounding	RF72IS	NZART	ZL1BYA
7095		2010	11	15	<1121.43>	1121.43	FSK8			UZK	9Q0	to 1101	RF72IS	NZART	ZL1BYA
7095		2010	11	15	<1122.8>	1122.8	FSK8			UZK	1103	to 1101	RF72IS	NZART	ZL1BYA
7098.88		2010	11	04	<1043>	1043-1113	F1B	75	250	RUS?	Unid	RTTY, encrypted, russian military ?	RF72IS	NZART	ZL1BYA
7099.5	79	2010	11	29	<0949>	0949-1158	P0N			CHN	Unid	OTHR at 43.1 ppsec	RF72IS	NZART	ZL1BYA
7101.5	49	2010	11	29	<0640>	0640-0830	P0N			330	?	Unid PBS Nei Meng	RF73MF	NZART	ZL1GWE
7105	5	2010	11	01	2218		A3E			273	CHN	Chinese Talk and Music		JARL	Hohhot
7105	3	2010	11	01	2220		A3E			non	non	Chinese Talk and Music		JARL	non
7105	5	2010	11	02	2212		A3E			273	CHN	Chinese Talk and Music		JARL	Hohhot
7105	3	2010	11	02	2214		A3E			non	CHN	Chinese Talk and Music		JARL	non
7105	5	2010	11	03	2214		A3E			273	CHN	Chinese Talk and Music		JARL	Hohhot
7105	3	2010	11	03	2216		A3E			non	CHN	Chinese Talk and Music		JARL	non
7105	5	2010	11	04	2202	anytime	A3E			273	CHN	Chinese Talk and Music	PM97	JARL	Hohhot
7105	3	2010	11	04	2204		A3E			non	CHN	Chinese Talk and Music		JARL	non
7105	5	2010	11	05	2208		A3E			273	CHN	Chinese Talk and Music		JARL	Hohhot
7105	3	2010	11	05	2210		A3E			non	CHN	Chinese Talk and Music		JARL	non
7105	5	2010	11	06	2218		A3E			273	CHN	Chinese Talk and Music		JARL	Hohhot
7105	3	2010	11	06	2220		A3E			non	CHN	Chinese Talk and Music		JARL	non
7105	5	2010	11	11	2204		A3E			273	CHN	Chinese Talk and Music		JARL	Hohhot
7105	3	2010	11	11	2206		A3E			non	CHN	Chinese Talk and Music		JARL	non

7105	5	2010	11	12	2240	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	12	2242	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	13	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	13	2208	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	14	2212	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	14	2214	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	15	2212	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	15	2214	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	16	2212	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	16	2214	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	17	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	17	2208	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	18	2208	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	18	2210	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	19	2212	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	19	2214	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	20	2212	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	20	2214	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	21	2208	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	21	2210	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	22	2208	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	22	2210	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	23	2204	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	23	2206	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	24	2214	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	24	2216	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	25	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	25	2208	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	26	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	26	2208	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	27	2210	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	27	2212	A3E	non	CHN	non	Chinese Talk and Music	JARL	non
7105	5	2010	11	28	2206	A3E	273	CHN	PBS Nei Meng	Chinese Talk and Music	JARL	Hohhot

7105	3	2010	11	28	2208		A3E		non	CHN	non PBS Nei	Chinese Talk and Music	JARL	non
7105	5	2010	11	29	2210		A3E		273	CHN	Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	29	2212		A3E		non	CHN	non PBS Nei	Chinese Talk and Music	JARL	non
7105	5	2010	11	30	2230		A3E		273	CHN	Meng	Chinese Talk and Music	JARL	Hohhot
7105	3	2010	11	30	2232		A3E		non	CHN	non	Chinese Talk and Music SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	JARL	non
7107		2010	11	02	<1155-1205>		J3E/U			CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
7112		2010	11	30	<0215-0225>		J3E/U			CLN	UNID	RTTY, encrypted, russian military ?	MK82	ARSI
7116.2		2010	11	03	<1045>	1045- 1130	F1B	75	250	RUS?	Unid		RF72IS	NZART
7118.5	1	2010	11	17	2030		F1B	FAST					QG52xi	WIA
7119	34	2010	11	20	0810		P0N		non	non	non	7102KHz ~ 7136KHz wide pulse mode P0N OTHR ? REBROADCAST OF RADIO	JARL	non
7120.0	3	2010	11	18	0810		J3E/L					OR TV	QG52xi	WIA
7123.4		2010	11	27	<1911>	1911 0955- 1135	P0N			?	Unid	OTHR S7	RE68XL	NZART
7128.5	83	2010	11	26	<0955>		P0N			CHN	Unid	OTHR at 43.1 ppsec AFRICAN; DOMESTIC BROADCAST.	RF72IS	NZART
7135	4	2010	11	05	<1445-1500>		A3E			UNID	UNID		MK82	ARSI
7135	34	2010	11	30	<0948>	0948	VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7137	34	2010	11	02	1036		P0N		non	non	non	7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?	JARL	non
7137	34	2010	11	11	1210		P0N		non	non	non	7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?	JARL	non
7137	34	2010	11	27	2034		P0N		non	non	non	7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?	JARL	non
7137	34	2010	11	30	1044		P0N		non	non	non	7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?	JARL	non
7137	34	2010	11	30	1230		P0N		non	non	non	7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?	JARL	non
7139	34	2010	11	22	<1023>	1023- 1147	VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7141	34	2010	11	25	<0933>	0933- 1145	VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7141.5	35	2010	11	04	<1035>	1035- 1114	VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7141.5	35	2010	11	06	<1012>	1012 1030- 1130	VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7141.5	35	2010	11	21	<1030>	0943- 1150	VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7142	34	2010	11	24	<0943>		VXX			?	Unid	CODAR sea state radar	RF72IS	NZART
7143	34	2010	11	04	0920		P0N		non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non
7143	34	2010	11	06	0926		P0N		non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non

7143	34	2010	11	06	1024		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	17	1234		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	19	1006		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	23	1210		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	25	1012		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	25	1216		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	28	1248	anytime	P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	PM97	JARL	non	
7143	34	2010	11	28	1814		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7143	34	2010	11	29	1610		P0N	non	non	non	7126KHz ~ 7160KHz wide pulse mode P0N OTHR ?	JARL	non		
7144.5	35	2010	11	19	<0955>	0955-1135	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA	
7144.5	35	2010	11	29	<0948>	0948-1158	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA	
7149.5	35	2010	11	23	<1058>	1058-1140	VXX		?	Unid	CODAR sea state radar	RF72IS	NZART	ZL1BYA	
7153.8		2010	11	02	<0300-0305>		J3E/U			CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM SPURIOUS INTERMODULATION PRODUCT	MK82	ARSI	
7160	4	2010	11	02	<0345-0350>		A3E			IND	CHENNAI	SPURIOUS INTERMODULATION PRODUCT	MK82	ARSI	
7160	4	2010	11	06	<0305-0310>		A3E			IND	CHENNAI	7156KHz ~ 7190KHz wide pulse mode P0N OTHR ?	MK82	ARSI	
7173	34	2010	11	18	1204		P0N	non	non	non	AFRICAN; DOMESTIC BROADCAST.	JARL	non		
7175	4	2010	11	29	<1431-1438>		A3E			UNID	UNID	Broadcast station S9+ Voice of the Broad Masses Arab Music	MK82	ARSI	
7175		2010	11	08	<1815>	1815	A3E			ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RE68XL	NZART	ZL2TZE
7175		2010	11	09	<1730>	1730	A3E			ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RE68XL	NZART	ZL2TZE
7175		2010	11	19	<1700>	1700	A3E			ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RE68XL	NZART	ZL2TZE
7175		2010	11	19	<1825>	1825	A3E			ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RF80HL	NZART	ZL2iFB
7175		2010	11	21	<1730>	1730	A3E			ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RE68XL	NZART	ZL2TZE

7175		2010	11	24	<1730>	1730	A3E		ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RE68XL	NZART	ZL2TZE
7175		2010	11	27	<1911>	1911	A3E		ERI	VOBM	Broadcast station S9+ Voice of the Broad Masses Arab Music	RE68XL	NZART	ZL2TZE
7177		2010	11	21	<0150-0155>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
7179	34	2010	11	23	0846	anytime	P0N	non	non	non	7162KHz ~ 7196KHz wide pulse mode P0N OTHR ?	PM97	JARL	non
7179	34	2010	11	23	1036		P0N	non	non	non	7162KHz ~ 7196KHz wide pulse mode P0N OTHR ?		JARL	non
7185	5	2010	11	05	<1445-1500>		A3E		UNID	UNID	AFRICAN; DOMESTIC BROADCAST.	MK82	ARSI	
7185	5	2010	11	29	<1431-1438>		A3E		UNID	UNID	ARABIC BROADCAST	MK82	ARSI	
7185	34	2010	11	27	0816		P0N	non	non	non	7168KHz ~ 7202KHz wide pulse mode P0N OTHR ?		JARL	non
7190	9	2010	11	02	<1155-1200>		A3E		CLN	SLBC	SLBC TAMIL BROADCAST TO SOUTH INDIA.	MK82	ARSI	
7190	8	2010	11	15	<0210-0215>		A3E		CLN	SLBC	SLBC BROADCAST IN HINDI.	MK82	ARSI	
7190	8	2010	11	18	<0215-0225>		A3E		CLN	SLBC	SLBC BROADCAST IN HINDI.	MK82	ARSI	
7190	8	2010	11	22	<0215-0220>		A3E		CLN	SLBC	SLBC BROADCAST IN HINDI.	MK82	ARSI	
7190	8	2010	11	30	<0215-0225>		A3E		CLN	SLBC	SLBC BROADCAST IN HINDI.	MK82	ARSI	
7200	6	2010	11	06	<0305-0310>		A3E		BRM	DOM.SER	BURMESE DOMESTIC SERVICE	MK82	ARSI	
7200	6	2010	11	15	<0210-0215>		A3E		BRM	DOM.SER	BURMESE DOMESTIC SERVICE	MK82	ARSI	
7200	6	2010	11	18	<0215-0225>		A3E		BRM	DOM.SER	BURMESE DOMESTIC SERVICE	MK82	ARSI	
7200	6	2010	11	22	<0215-0220>		A3E		BRM	DOM.SER	BURMESE DOMESTIC SERVICE	MK82	ARSI	
7200	6	2010	11	30	<0215-0225>		A3E		BRM	DOM.SER	BURMESE DOMESTIC SERVICE	MK82	ARSI	
7200	3	2010	11	13	2038		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	3	2010	11	17	2044		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	3	2010	11	19	1602		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	3	2010	11	20	1604		A3E	non	non	non	unknown Talk and Music		JARL	non
7200.00	0.5	2010	11	20		21:40					Only carrier		JARL	
7200.00	0.5	2010	11	20		21:55					Only carrier		JARL	
7200	5	2010	11	21	1606		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	5	2010	11	22	1606		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	5	2010	11	23	1606		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	5	2010	11	24	1600		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	5	2010	11	25	1606		A3E	non	non	non	unknown Talk and Music		JARL	non
7200	5	2010	11	26	1606		A3E	non	non	non	unknown Talk and Music		JARL	non

7200	5	2010	11	27	1614		A3E	non	non	non	unknown Talk and Music	JARL	non	
7200	34	2010	11	28	1612		A3E	non	non	non	unknown Talk and Music	JARL	non	
7200	5	2010	11	29	1606		A3E	non	non	non	unknown Talk and Music	JARL	non	
7200	5	2010	11	30	1610		A3E	non	non	non	unknown Talk and Music	JARL	non	
7200	5	2010	11	30	1812	anytime	A3E	non	non	non	unknown Talk and Music Chinese speaking non-amateurs competing with strong CW signals	JARL	non	
10113		2010	11	07	<0538>	0538	J3E/U	000	?	Unid		RF73MF	NZART	ZL1GWE
14000.0	100	2010	11	19	0135		P0N					QG52xi	WIA	
14000	3	2010	11	1	23:00--23:38		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000	3	2010	11	2	07:30--07:45		J3E/U	315	CLN		2 males	OF84wx	WIA	
14000	3	2010	11	2	23:00--23:07		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000	3	2010	11	4	<08:25--08:31		J3E/U	315	CLN		2 males	OF84wx	WIA	
14000	3	2010	11	4	23:05--23:26		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000	3	2010	11	5	22:50--23:27		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000	3	2010	11	7	<23:12--00:05		J3E/U	315	CLN		grouo of males	OF84wx	WIA	
14000	3	2010	11	25	08:30--08:50		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000	3	2010	11	25	23:04--23:30		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000	3	2010	11	30	23:15--00:10>		J3E/U	315	CLN		Group of males	OF84wx	WIA	
14000		2010	11	19	<0330-0340>		P0N		UNID	UNID	SPREADING FROM 13993 TO 14007 Khz.	MK82	ARSI	
14000.7	3	2010	11	3	2030		J3E/U				ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	
14000.7		2010	11	03	<1525-1530>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14000.7		2010	11	07	<0305-0310>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14001	3	2010	11	6	<22:45--23:25		J3E/U	315	CLN		2 males	OF84wx	WIA	
14001		2010	11	05	<0305-0310>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14001.1	3	2010	11	3	2025		J3E/U				ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	
14002		2010	11	12	<1435-1445>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14002		2010	11	16	<0400-0410>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14002.4	3	2010	11	14	<23:40--23:54		J3E/L	315	CLN		2 males	OF84wx	WIA	
14002.5	3	2010	11	12	<23:22--00:15		J3E/L	315	CLN		2 males	OF84wx	WIA	
14003		2010	11	24	<1330-1335>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14005		2010	11	13	<0140-0155>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	

14005		2010	11	14	<0145-0200>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14007	3	2010	11	3	<07:15--07:31	J3E/U	360	INS		2 males SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	OF84wx	WIA
14008.4		2010	11	25	<0435-0445>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14008.5		2010	11	05	<1100-1110>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14011.2		2010	11	01	<0225-0235>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14011.4		2010	11	03	<0250-0300>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14013.8	3	2010	11	19	1020	J3E/U				ASIAN, SOUNDS CHINESE	QG52xi	WIA
14014.0	3	2010	11	30	1020	J3E/U				ASIAN	QG52xi	WIA
14014		2010	11	13	<1120-1130>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14014		2010	11	18	<1115-1125>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14015		2010	11	02	<0230-0240>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14015		2010	11	02	<1145-1200>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14015		2010	11	04	<0200-0210>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14015		2010	11	05	<0300-0310>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14015		2010	11	05	<1050-1055>	J3E/U		CHN	UNID	CHINESE SPEAKING; FISHING TRAWLERS- 0M- 0M	MK82	ARSI
14017.8	3	2010	11	30	1020	J3E/U				ASIAN	QG52xi	WIA
14018		2010	11	13	<0150-0200>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14018		2010	11	24	<0305-0315>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14020	3	2010	11	4	<08:00--08:30	J3E/U	360	INS		2 males CHINESE SPEAKING; FISHING TRAWLERS- 0M- 0M	OF84wx	WIA
14020		2010	11	05	<0305-0310>	J3E/U		CHN	UNID	SRI LANKAN FISHING	MK82	ARSI
14020		2010	11	20	<1005-1015>	J3E/U		CLN	UNID		MK82	ARSI

14020		2010	11	24	<0225-0235>	J3E/U		CLN	UNID	TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14023	3	2010	11	3	23:06--23:48	J3E/U	315	CLN		2 males	OF84wx	WIA
14023.7	3	2010	11	18	<22:27--22:55>	J3E/U	315	CLN		Group of males	OF84wx	WIA
14023.8	3	2010	11	3	22:50--00:03	J3E/U	315	CLN		2 males	OF84wx	WIA
14023.8	3	2010	11	17	<08:36--8:49	J3E/U	315	CLN		2 males	OF84wx	WIA
14024	3	2010	11	16	23:28--00:00	J3E/U	315	CLN		2 males	OF84wx	WIA
14024	3	2010	11	27	23:20--23:45	J3E/U	315	CLN		2 males	OF84wx	WIA
14024		2010	11	05	<1050-1055>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14024.8	3	2010	11	12	<23:20--23:50	J3E/U	315	CLN		group of males	OF84wx	WIA
14025	3	2010	11	4	23:20--00:01	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2010	11	5	<23:10--00:27	J3E/U	315	CLN		Group of males	OF84wx	WIA
14025	3	2010	11	6	<22:45--00:04	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2010	11	7	22:57--00:50	J3E/U	315	CLN		2 males on-off	OF84wx	WIA
14025	3	2010	11	8	<23:00--23:42	J3E/U	315	CLN		Group of males	OF84wx	WIA
14025	3	2010	11	23	23:50--23:58	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2010	11	25	23:00--23:50	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2010	11	26	<23:10--23:35	J3E/U	315	CLN		2 males	OF84wx	WIA
14025	3	2010	11	30	23:15--23:32	J3E/U	315	CLN		2 males	OF84wx	WIA
14026.8		2010	11	05	<0330-0340>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14027		2010	11	07	<0255-0300>	J3E/U		CHN	UNID	CHINESE SPEAKING; FISHING TRAWLERS- 0M- 0M	MK82	ARSI
14027.2		2010	11	02	<0335-0345>	J3E/U		CHN	UNID	CHINESE SPEAKING; FISHING TRAWLERS- 0M- 0M	MK82	ARSI
14031	3	2010	11	12	<23:20--23:30	J3E/U	360	INS		2 males	OF84wx	WIA
14031		2010	11	29	<0255-0305>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14032.8	3	2010	11	19	1020	J3E/U				ASIAN, FAMILY NET	QG52xi	WIA
14033		2010	11	16	<0405-0410>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14033.3	3	2010	11	29	22:45--23L15	J3E/L	315	CLN		2 males	OF84wx	WIA
14038.8	3	2010	11	10	<22:35--23:35	J3E/U	315	CLN		Group of males	OF84wx	WIA
14039	3	2010	11	11	<22:40--23:00	J3E/U	315	CLN		Group of males	OF84wx	WIA
14039	3	2010	11	12	<22:40--23:00	J3E/U	315	CLN		2 males	OF84wx	WIA
14039	3	2010	11	24	<23:03--00:10	J3E/U	315	CLN		2 males	OF84wx	WIA
14039	3	2010	11	25	23:10--23:45	J3E/U	315	CLN		2 males	OF84wx	WIA
14039	3	2010	11	26	<08:35--08:55	J3E/U	315	CLN		2 males	OF84wx	WIA

14039.8	3	2010	11	1	<06:28--06:48	J3E/U	360	INS		Male-female	OF84wx	WIA	
14040	3	2010	11	10	<08:30--08:47	J3E/L	360			Male-female (Chinese)	OF84wx	WIA	
14040	3	2010	11	11	<08:40--08:54	J3E/L	360			2 males (Chinese)	OF84wx	WIA	
14040	3	2010	11	16	<08:27--08:55	J3E/L	315	CLN		2 males	OF84wx	WIA	
14040	3	2010	11	24	08:03--08:18	J3E/L	360			Male-female, Chinese	OF84wx	WIA	
14040.2	3	2010	11	17	<08:40--08:55	J3E/L	360			Male-female Chinese	OF84wx	WIA	
14040.5	3	2010	11	29	<08:25--08:56>	J3E/L	315	CLN		Group of males	OF84wx	WIA	
14040.6	3	2010	11	25	08:07--08:30	J3E/U	360			Male-female, Chinese	OF84wx	WIA	
14041.6	3	2010	11	18	08:03--08:15	J3E/U	360			Male-female Chinese	OF84wx	WIA	
14042	3	2010	11	18	<22:25--22:30	J3E/L	360			2 males	OF84wx	WIA	
14045.0	3	2010	11	3	0845-0915	J3E/U		CHN		DAILY, FAMILY NET	QG52xi	WIA	
14045.0	3	2010	11	15	0840	F1B			HIGH	SHORT BURSTS	QG52xi	WIA	
14045	3	2010	11	14	08:53--09:05	J3E/U	315	CLN		2 males	OF84wx	WIA	
14045	3	2010	11	14	<22:40--23:58	J3E/U	315	CLN		Group of males	OF84wx	WIA	
14045	3	2010	11	15	08:48--09:04	J3E/U	315	CLN		2 males	OF84wx	WIA	
14045	3	2010	11	15	23:03--23:33	J3E/U	315	CLN		2 males	OF84wx	WIA	
14045	3	2010	11	16	08:35--09:05	J3E/U	315	CLN		2 males	OF84wx	WIA	
14045	3	2010	11	25	08:20--08:54	J3E/U	360			2 males 1 female, Chinese	OF84wx	WIA	
14045	3	2010	11	26	<23:20--23:35	J3E/U	360			2 males, Chinese	OF84wx	WIA	
14045		2010	11	21	<0420-0430>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY - 2 OM	MK82	ARSI	
14045.2	3	2010	11	26	<08:35--09:00	J3E/U	360			2 males , Chinese	OF84wx	WIA	
14045.5	3	2010	11	29	<22:40--23:13	J3E/U	315	CLN		Group of males	OF84wx	WIA	
14047	15	2010	11	14	<0240>	P0N	38	?	Unid	OTHR 66pps 2-3 seconds bursts suspected Argentina S9 SP and LP	RF73MF	NZART	ZL1GWE
14048	3	2010	11	9	<22:40--00:15	J3E/U	360	INS		2 males	OF84wx	WIA	
14049.3	3	2010	11	22	1215	J3E/L				ASIAN	QG52xi	WIA	
14050.0	3	2010	11	3	2030	J3E/L				ASIAN	QG52xi	WIA	
14050.0	20	2010	11	14	0120	P0N				SHORT BURSTS	QG52xi	WIA	
14050.0	1	2010	11	22	1030	F1B				CONTINUOUS	QG52xi	WIA	
14051		2010	11	21	<0155-0205>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY - 2 OM	MK82	ARSI	
14052.3	3	2010	11	21	0835	J3E/U				ASIAN NOT CHINESE	QG52xi	WIA	
14053.5	3	2010	11	1	23:40--00:12	J3E/U	315	CLN		2 males	OF84wx	WIA	
14053.5	2	2010	11	5	<23:45--23:58	J3E/U	315	CLN		2 males	OF84wx	WIA	
14053.5	3	2010	11	8	22:40--00:10	J3E/U	315	CLN		Group of males	OF84wx	WIA	
14053.5	3	2010	11	11	23:30--00:15>	J3E/U	315	CLN		2 males	OF84wx	WIA	
14053.6	3	2010	11	9	<23:18--00:10	J3E/U	315	CLN		2 males CHINESE SPEAKING; FISHING TRAWLERS- 0M- 0M	OF84wx	WIA	
14054.4		2010	11	03	<0250-0300>	J3E/U		CHN	UNID		MK82	ARSI	
14054.7	3	2010	11	12	<08:30--08:34	J3E/L	315	CLN		2 males	OF84wx	WIA	
14055	3	2010	11	12	<22:45--22:58	J3EL	360	INS		2 males	OF84wx	WIA	
14055	3	2010	11	13	<23:25--00:06	J3E/U	315	CLN		2 males	OF84wx	WIA	

14055.3	3	2010	11	12	0850	J3E/U				DAILY, ASIAN	QG52xi	WIA
14055.6	3	2010	11	30	1000	J3E/U				ASIAN	QG52xi	WIA
14056.2	3	2010	11	11	<08:13--08:30	J3E/U	315	CLN		2 males	OF84wx	WIA
14056.2	3	2010	11	11	<22:40--23:25	J3E/U	315	CLN		2 males	OF84wx	WIA
14056.3	3	2010	11	3	0915	J3E/U				DAILY, ASIAN	QG52xi	WIA
14056.3	3	2010	11	10	<08:16--08:28	J3E/U	315	CLN		2 males	OF84wx	WIA
14056.3	3	2010	11	10	<22:35--23:46	J3E/U	315	CLN		2 males	OF84wx	WIA
14060	3	2010	11	15	<23:30--23:45	J3E/U	315	CLN		2 males	OF84wx	WIA
14064.2	3	2010	11	22	1025	J3E/L				ASIAN	QG52xi	WIA
14065.0	10	2010	11	18	2200-2300	A3J		PHL		VOA TINANG INTERMOD	QG52xi	WIA
14066.6	3	2010	11	14	1150	J3E/U				DAILY, ASIAN, SOUNDS		
14067.3	3	2010	11	30	1025	J3E/U				CHINESE	QG52xi	WIA
										ASIAN	QG52xi	WIA
14080.8		2010	11	05	<0300-0310>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14088	3	2010	11	15	<08:45--09:00	J3E/U	360	INS		1female talk only, listen to other channel	OF84wx	WIA
										CHINESE SPEAKING; FISHING TRAWLERS- 0M-		
14088		2010	11	16	<0400-0410>	J3E/U		CHN	UNID	0M	MK82	ARSI
14089	3	2010	11	17	23:15--23:20	J3E/U	360			2 males	OF84wx	WIA
14091.7	3	2010	11	12	<08:18--08:26	J3E/U	360			Male-female	OF84wx	WIA
14091.8	3	2010	11	17	08:33--08:47	J3E/U	360			Male-female Chinese	OF84wx	WIA
14092	3	2010	11	1	08:01--08:53	J3E/U	360			2 males Chinese	OF84wx	WIA
14092	3	2010	11	11	<08:12--08:17	J3E/U	360			2 males	OF84wx	WIA
14092	3	2010	11	29	<08:05--08:22	J3E/U	360			2 males < Chinese	OF84wx	WIA
14096.3	3	2010	11	14	08:50--09:02	J3E/U	315	CLN		2 males	OF84wx	WIA
										2 males switched to 14100.6		
14096.4	3	2010	11	3	<22:35--22:45	J3E/U	315	CLN		J3E/L	OF84wx	WIA
14099.6	3	2010	11	4	07:45--08:37	J3E/L	315	CLN		Group of males	OF84wx	WIA
14100	3	2010	11	27	<22:45--23:48	J3E/U	315	CLN		Group of males	OF84wx	WIA
14100.6	3	2010	11	3	22:45--22:54	J3E/L	315	CLN		2 males	OF84wx	WIA
14102	3	2010	11	26	<22:35--23:00	J3E/U	360	INS		2 males	OF84wx	WIA
14105	3	2010	11	29	<00:00--00:30>	J3E/U	315	CLN		2 males	OF84wx	WIA
14105	3	2010	11	29	<22:55--00:11	J3E/U	315	CLN		Group of males	OF84wx	WIA
14111	3	2010	11	16	<08:24--08:50	J3E/U	360			Male-female Chinese	OF84wx	WIA
										SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM		
14111		2010	11	20	<1005-1015>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14112		2010	11	23	<0440-0450>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI
14120	60	2010	11	2	<07:30--09:00	Radar	360			Radar continuous	OF84wx	WIA
14120	60	2010	11	2	<22:30--23:55	Radar	360			Radar continuous	OF84wx	WIA
										SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM		
14120.5		2010	11	02	<0230-0240>	J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI

14121.5		2010	11	21	<0425-0430>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14122.3		2010	11	13	<0150-0200>		J3E/L		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14142		2010	11	03	<0435-0445>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14162		2010	11	15	<0245-0255>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14172		2010	11	06	<0031>	0031	P0N		?	Unid	OTHR S9	RE68XL	NZART	ZL2TZE
14185		2010	11	14	<0430>	0430	P0N	330	?	Unid	OTHR S9 +20db	RF81WM	NZART	ZL2CC
14188	34	2010	11	14	<0430>	0430-0651	P0N	330	?	Unid	OTHR 66pps 2-3 seconds bursts S9+ FMCW target system	RF73MF	NZART	ZL1GWE
14191.8		2010	11	22	<0215-0225>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14194		2010	11	20	<0318>	0318	P0N	330	?	Unid	OTHR Straight across ZL8X Kermadec Island expedition	RF81WM	NZART	ZL2CC
14200	34	2010	11	14	<0446>	0446-0651	P0N	330	?	Unid	OTHR S9+ qrt AT 0651z	RF73MF	NZART	ZL1GWE
14202		2010	11	02	<0230-0240>		J3E/L		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14205	90	2010	11	13	<0625>	0625-0745	P0N	315	?	Unid	OTHR 66pps 2-3 seconds bursts S9 ++ FMCW varies target system	RF73Mf	NZART	ZL1GWE
14211.8		2010	11	24	<0305-0315>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14218.43		2010	11	05	<0703>	0703	P0N		?	Unid	OTHR 50 PPS S9	RE68XL	NZART	ZL2TZE
14222		2010	11	21	<0140-0155>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14242.2		2010	11	24	<0225-0235>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14250		2010	11	20	<1005-1015>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14253.6		2010	11	25	<0435-0445>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14274.1		2010	11	25	<0435-0445>		J3E/U		CLN	UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14277.7	3	2010	11	1	01:40--01:45		J3E/U	360	INS		2 males pass coded messages (weather info)	OF84wx	WIA	

14277.7	3	2010	11	2	00:25--00:33	J3E/U	360	INS	2 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	3	00:52--01:03	J3E/U	360	INS	group of males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	4	00:46--00:51	J3E/U	360	INS	3 males pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	4	00:58--01:03	J3E/U	360	INS	2 male pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	4	01:05--01:10	J3E/U	360	INS	2 males 1 female pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	5	00:18--00:31	J3E/U	360	INS	Group of males pass coded messages,(weather info)	OF84wx	WIA	
14277.7	3	2010	11	7	00:25--00:41	J3E/U	360	INS	2 males pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	8	01:35--01:40	J3E/U	360	INS	2 males pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	9	00:43--00:44	J3E/U	360	INS	2 males 1 female. no messages yet	OF84wx	WIA	
14277.7	3	2010	11	9	01:35--01:42	J3E/U	360	INS	Male-female pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	10	01:30--01:31	J3E/U	360	INS	Male-female no messages yet	OF84wx	WIA	
14277.7	3	2010	11	10	02:00--02:01	J3E/U	360	INS	Male -female, no messages yet	OF84wx	WIA	
14277.7	3	2010	11	11	00:57--00:58	J3E/U	360	INS	Male-female no messages	OF84wx	WIA	
14277.7	3	2010	11	12	01:05--01:06	J3E/U	360	INS	Male-female no messages yet	OF84wx	WIA	
14277.7	3	2010	11	13	00:42--00:50	J3E/U	360	INS	2 males 1 female pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	15	00:30--00:46	J3E/U	360	INS	Male-female pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	15	01:04--01:08	J3E/U	360	INS	2 males 1 female pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	15	01:32--01:42	J3E/U	360	INS	2 males pass coded messages, (weather info)	OF84wx	WIA	VK4TJ
14277.7	3	2010	11	16	01:15--01:19	J3E/U	360	INS	2 males 1 female pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	16	01:25--02:25	J3E/U	360	INS	2 males pass coded messages,(weather info),	OF84wx	WIA	
14277.7					00:05--02:40		360	INS	Talk later	OF84wx	WIA	
14277.7	3	2010	11	18	00:12--00:22	J3E/U	360	INS	No weather info at all today	OF84wx	WIA	
14277.7	3	2010	11	18	00:27--00:31	J3E/U	360	INS	2male-1female, pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	18	00:35--00:38	J3E/U	360	INS	2 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	18	00:51--00:52	J3E/U	360	INS	2 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	18	01:08--01:09	J3E/U	360	INS	male-female no coded messages	OF84wx	WIA	VK6XW
14277.7	3	2010	11	18	01:08--01:09	J3E/U	360	INS	2 males 1 female no coded messages	OF84wx	WIA	

14277.7	3	2010	11	18	02:07--02:17	J3E/U	360	INS			Male-female pass coded messages (weather info)	OF84wx	WIA	
14277.7	3	2010	11	26	01:27--01:28	J3E/U	360	INS			2 males , no messages yet	OF84wx	WIA	
14277.7	3	2010	11	26	02:14--02:15	J3E/U	360	INS			2 males , no messages yet	OF84wx	WIA	
14277.7	3	2010	11	26	02:20--02:30	J3E/U	360	INS			3 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	27	00:58--01:02	J3E/U	360	INS			2 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	27	01:03--01:05	J3E/U	360	INS			1 male calling, no reply	OF84wx	WIA	
14277.7	3	2010	11	27	01:15--01:25	J3E/U	360	INS			2 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	27	01:43--01:45	J3E/U	360	INS			Male-female pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	28	01:30--01:39	J3E/U	360	INS			3 males pass coded messages, (weather info)	OF84wx	WIA	
14277.7	3	2010	11	29	01:55--01:56	J3E/U	360	INS			2 males, no messages yet	OF84wx	WIA	
14277.7	3	2010	11	29	02:10--02:11	J3E/U	360	INS			Male-female , no messages	OF84wx	WIA	
14277.7	3	2010	11	30	00:445--00:49	J3E/U	360	INS			2 males pass coded messages, (weather info)	OF84wx	WIA	
14280.0	50	2010	11	19	0015	P0N						QG52xi	WIA	
21000.2		2010	11	21	<0220-0225>	J3E/U		CLN	UNID		SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
21010		2010	11	21	<0510-0515>	J3E/U		CLN	UNID		SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
21025.0	3	2010	11	17	0950	J3E/U					ASIAN	QG52xi	WIA	
21050.0	6	2010	11	17	2200 & 0800	A3E					DAILY, ASIAN, CB-LIKE	QG52xi	WIA	
21111.0	3	2010	11	16	0925	J3E/U					ASIAN	QG52xi	WIA	
24900.0	6	2010	11	17	0720	A3E					DAILY, ASIAN, CB-LIKE	QG52xi	WIA	
24915.0	6	2010	11	28	0045	A3E					ASIAN, CB-LIKE	QG52xi	WIA	
24925.0	6	2010	11	16	0920	A3E					ASIAN, CB-LIKE	QG52xi	WIA	
28000.0	6	2010	11	17	0745	A3E					ASIAN	QG52xi	WIA	
28004.0		2010	11	21	0640	A1A			ER8		DRIFTNET BEACON	QG52xi	WIA	
28005.0	6	2010	11	21	0640	A3E					ASIAN	QG52xi	WIA	
28010.0	6	2010	11	21	0640	A3E					ASIAN	QG52xi	WIA	
28025.0	6	2010	11	1	0940	A3E					ASIAN	QG52xi	WIA	
28043		2010	11	20	<0650>	F3E	330	?	Unid	0650-0727	Chinese Cbers PLL Splashes S1-S4 QSB TEP lift occurring on 6 Metres	RF73MF	NZART	ZL1GWE
28050.0	6	2010	11	21	0640	F3E					ASIAN	QG52xi	WIA	
28050		2010	11	20	<0500>	F3E	330	?	Unid	0500-0550	Chinese Cbers PLL Splashes S1-S4 QSB	RF73MF	NZART	ZL1GWE
28055.0	6	2010	11	28	0050	A3E					ASIAN	QG52xi	WIA	
28065.0	6	2010	11	28	0050	A3E					ASIAN	QG52xi	WIA	
28075.0	6	2010	11	17	0745	A3E					ASIAN	QG52xi	WIA	
28075		2010	11	20	<0500>	F3E	330	?	Unid	0500-0550	Chinese Cbers PLL Splashes S1-S4 QSB	RF73MF	NZART	ZL1GWE
28100.0	6	2010	11	17	0745	A3E					ASIAN	QG52xi	WIA	

28110		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28115.0	6	2010	11	17	0740		A3E				S1-S4 QSB	QG52xi	WIA	
28120		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	ASIAN			
28125.0	6	2010	11	17	0740		F3E				Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28125		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	S1-S4 QSB	QG52xi	WIA	
28125		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	ASIAN			
28150.0	6	2010	11	1	0940		A3E				Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28150		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	S1-S4 QSB	QG52xi	WIA	
28175.0	6	2010	11	17	0740		F3E				ASIAN			
28175		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28237.0	6	2010	11	17	0740		F3E				S1-S4 QSB	QG52xi	WIA	
28240		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	ASIAN			
28250		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28275		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	S1-S4 QSB	RF73MF	NZART	ZL1GWE
28280		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28300.0	6	2010	11	17	0740		A3E				S1-S4 QSB	QG52xi	WIA	
28325.0	6	2010	11	17	0740		A3E				ASIAN	QG52xi	WIA	
28350.0	6	2010	11	1	0940		A3E				ASIAN	QG52xi	WIA	
28350.0	6	2010	11	17	0740		A3E				ASIAN	QG52xi	WIA	
28350		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28355.0	6	2010	11	21	0740		A3E				S1-S4 QSB	QG52xi	WIA	
28375.0	6	2010	11	17	0740		A3E				ASIAN	QG52xi	WIA	
28400.0	6	2010	11	17	0740		A3E				ASIAN	QG52xi	WIA	
28400		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28410.0	6	2010	11	17	0740		A3E				S1-S4 QSB	QG52xi	WIA	
28440.0	6	2010	11	17	0740		A3E				ASIAN	QG52xi	WIA	
28440		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	ASIAN			
28450.0	6	2010	11	1	0920		A3E				Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28460		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	S1-S4 QSB	QG52xi	WIA	
28500.0	6	2010	11	21	0630		A3E				ASIAN	QG52xi	WIA	
28550.0	6	2010	11	17	0735		A3E				ASIAN	QG52xi	WIA	
28590		2010	11	20	<0500>	0500-0550	F3E	330	?	Unid	Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE
28625.0	6	2010	11	17	0735		A3E				S1-S4 QSB	QG52xi	WIA	
28640		2010	11	20	<0500>	0500-	F3E	330	?	Unid	ASIAN			
											Chinese Cbers PLL Splashes	RF73MF	NZART	ZL1GWE

				0550		S1-S4 QSB		
28705.0	6	2010	11	17	0735	ASIAN	QG52xi	WIA
28725.0	6	2010	11	17	0735	ASIAN	QG52xi	WIA
28760.0	6	2010	11	17	0735	ASIAN	QG52xi	WIA
28775.0	6	2010	11	17	0730	ASIAN	QG52xi	WIA
28800.0	6	2010	11	17	0730	ASIAN	QG52xi	WIA
28850.0	6	2010	11	1	0935	ASIAN	QG52xi	WIA
28925.0	6	2010	11	1	0935	ASIAN	QG52xi	WIA
28950.0	6	2010	11	17	0730	ASIAN	QG52xi	WIA
28985.0	6	2010	11	1	0935	ASIAN	QG52xi	WIA
29050.0	6	2010	11	17	0730	ASIAN	QG52xi	WIA
29100.0	6	2010	11	1	0935	ASIAN	QG52xi	WIA
29175.0	6	2010	11	1	0935	ASIAN	QG52xi	WIA
29200.0	6	2010	11	17	0730	ASIAN	QG52xi	WIA
29250.0	6	2010	11	1	0930	ASIAN	QG52xi	WIA
29300.0	6	2010	11	17	0730	ASIAN	QG52xi	WIA
29310.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29325.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29350.0	6	2010	11	1	0930	ASIAN	QG52xi	WIA
29375.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29385.0	6	2010	11	1	0930	ASIAN	QG52xi	WIA
29400.0	6	2010	11	1	0930	ASIAN	QG52xi	WIA
29410.0	6	2010	11	1	0930	ASIAN	QG52xi	WIA
29425.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29435.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29450.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29485.0	6	2010	11	17	0725	ASIAN	QG52xi	WIA
29525.0	6	2010	11	17	0720	ASIAN	QG52xi	WIA
29575.0	6	2010	11	17	0720	ASIAN	QG52xi	WIA
29610.0	6	2010	11	17	0720	ASIAN	QG52xi	WIA
29625.0	6	2010	11	17	0720	ASIAN	QG52xi	WIA
29635.0	6	2010	11	17	0720	ASIAN	QG52xi	WIA
29675.0	6	2010	11	1	0925	ASIAN	QG52xi	WIA
29685.0	6	2010	11	17	0720	ASIAN	QG52xi	WIA
29700.0	6	2010	11	1	0920	ASIAN	QG52xi	WIA