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NAVIGATION AND COMMUNICATIONS

1. ADF MODERNISED HIGH FREQUENCY COMMUNICATIONS SYSTEM (MHFCS)

- 1.1 The ADF MHFCS is a high frequency (3-30MHz) radio network providing communication services for the operational control and support of ADF and allied aircraft, marine craft and land units. Visiting military aircraft may use either the ADF or RNZAF system when contact with Australian/New Zealand based military authorities is required. Neither system provides a civil or military Air Traffic Control Service.
- 1.2 The ADF MHFCS is centrally controlled by the Defence Communications Station Canberra (DCSC) at the Network Management Facility (NMF) located in Canberra, ACT, Australia.
- 1.3 The MHFCS system consists of four Transmit and Receive Nodes located at:

EXMOUTH, Western Australia	(22 20S, 114 30E)
DARWIN, Northern Territory	(12 22S, 130 59E)
TOWNSVILLE, Queensland	(19 28S, 146 25E)
RIVERINA, New South Wales	(35 01S, 146 25E)

These nodes are remotely controlled from the NMF.

- 1.4 DCSC provides 5 continuously monitored Voice Contact Net (VCN) frequencies from each of the four nodes as follows:

VCN	Assigned	Dial/Suppressed carrier	Hours of Operation
VCN 1	22869.5KHZ	22868KHZ	Continuous
VCN 2	5879.5KHZ	5878KHZ	Continuous
VCN 3	9341.5KHZ	9340KHZ	Continuous
VCN 4	15963.5KHZ	15962KHZ	Continuous
VCN 5	12173.5KHZ	12172KHZ	Continuous

- 1.4.1 Emission: 3K00J3E (Offset - subtract 1.5KHz from assigned)
- 1.4.2 Discrete frequencies are available as required and allocated after initial contact on the VCN.
- 1.4.3 Telephone patch facilities between aircraft and ground appointments are available as required, after initial contact on VCN.
- 1.4.4 Continuous monitoring of military distress frequency 5696KHz.
- 1.4.5 SELCAL. Available to suitably equipped aircraft/vessels.
- 1.5 **Hours of Operation**
DCSC - H24.
- 1.6 **Mode Of Operation**
DCSC is capable of operating independent side band (ISB) or AM modes however, the normal mode of operation is Upper Side Band (USB) or suppressed carrier.
- 1.7 **Callsign**
DCSC uses the following self evident callsign: "Canberra Control".
- 1.8 Telephone/FAX contact numbers:

Location	Telephone	FAX
DCSC	+61 2 6263 8126	+61 2 6263 8143

2. RNZAF AIR OPERATIONS COMMUNICATIONS CENTRE AUCKLAND (AOCCAK)

- 2.1 AOCCAK is a high frequency (3-30MHz) station providing HF communications services to RNZAF, RAAF and other allied aircraft. Visiting military aircraft may use either the ADF or RNZAF system when contact with Australian/New Zealand based military authorities is required. Neither system provides a civil or military Air Traffic Control Service.
- 2.2 AOCC Auckland is located at RNZAF Whenuapai, Auckland, New Zealand (36 47S, 174 37E).

2.3 AOCCA provides 4 General Purpose Net (GPN) frequencies, which consist of the following (note station hours of operation are currently not 24/7):

Assigned	Dial/Suppressed Carrier	Normal Hours of Operation	When 24HR Operations
3033.4KHz	3032KHz	0900-1000Z 1900-2100Z	0900-2100Z
5688.4KHz	5687KHz	1900-1000Z	CONTINUOUS
8975.4KHz	8974KHz	1900-1000Z	CONTINUOUS
11236.4KHz	11235KHz	1900-1000Z	CONTINUOUS
13207.4KHz	13206KHz	2100-0900	2100-0900

- 2.3.1 Emission 2K80J9W (Offset - Subtract 1.4KHZ from assigned).
- 2.3.2 Discrete frequencies are available as required and allocated after initial contact on the GPN.
- 2.3.3 Telephone patch facilities between aircraft and ground appointments are available in emergencies or at supervisor's discretion.
- 2.3.4 SELCAL. Available to suitably equipped aircraft/vessels.
- 2.4 **Hours of Operation.**
AOCCA - 1900Z - 1000Z daily
- 2.5 **Mode of Operation.**
AOCCA is capable of operating Independent Side Band (ISB), the normal mode of operation is Upper Side Band (USB) or suppressed carrier.
- 2.6 **Call sign**
AOCCA uses the following self evident callsign: "Air Force Auckland".
- 2.7 Telephone contact number.
AOCCA - : +64 9 417 7831.

3. MILITARY HF COMMUNICATIONS

- 3.1 In addition to that which DCSC supplies, the following HF nets are available:
 - a. RAAF Butterworth. Aircraft transiting to/from Butterworth may relay message traffic via DCSC. Aircraft requiring HF contact with Butterworth are to make prior arrangement through DCSC.
 - b. PNGDF General Purpose Network

Location	C/S	Frequencies	HR of OPS
Port Moresby	P2A2	5746(P) LGG 7496(S) LGH 3175 (S) LGF	H24
Lae	P2A3	5746 (P) LGG 7496 (S) LGH 3175 (S) LGF	2200-0700 JO

4. AIR-TO-AIR COMMUNICATIONS - CIVIL

- 4.1 Interpilot air-to-air communications in Australian FIRs may be conducted on frequency 123.45MHZ. Aircraft engaged in flights over remote and oceanic areas, out of range of VHF ground stations, and not in the vicinity of a charted non-controlled aerodrome, should use this channel to exchange operational information. Communications between aircraft on this frequency are restricted to the exchange of information relating to aircraft operations. Communications are to be established by either a directed call to a specific aircraft or a general call, taking into account conditions pertaining to the use of the particular channel. As target aircraft may be guarding more than one frequency, the initial call should include the distinctive channel identification "INTERPILOT" or identification of the air-to-air frequency.
- 4.2 The following examples illustrate the application of the calling procedures.
 - a. Qantas 2, SPEEDBIRD 15, INTERPILOT, DO YOU READ?; or

b. ANY AIRCRAFT VICINITY 10S 135E, QANTAS 5, 123.45, OVER.

5. AIR TRAFFIC SERVICES DATALINK SERVICES

5.1 HF SELCAL Check

5.1.1 For aircraft departing Australian airspace, a SELCAL check is not mandatory. However, flight crews wishing to satisfy themselves with HF performance should perform a SELCAL check after departure, but prior to being transferred to CPDLC. The primary HF frequency will be advised with the transfer instruction. The HF operator will confirm the primary and secondary HF frequencies on first contact.

BROADCAST STATIONS

1. WARNINGS AND ADVICE

1.1 A listing of Australian broadcast frequencies is available from the Australian Broadcasting Authority. This list is displayed and maintained by the Australian Broadcasting Authority and is available at the following web address:

http://www.acma.gov.au/ACMAINTER.852074:STANDARD::pc=PC_9150

Note that the datum used is not WGS84 but Australian Geodetic Datum 1966 (AGD66).

1.2 Aviation authorities do not issue NOTAM for broadcast stations. It is possible that the information listed may be inaccurate. The station identification is the general location of the reception area and is not necessarily the site of the transmitter. Co-ordinates shown apply to position of transmitter.

CAUTION: A considerable number of stations relay broadcasts.

STATION	IDENT	FREQ (KHZ)	PSN LAT			LONG			PWR
AUSTRALIAN CAPITAL TERRITORY									
Canberra	2CN	666	35	13	09	149	07	21	5k
Canberra	2RN	846	35	13	09	149	07	21	10k
Canberra		1008	35	13	15	149	06	58	300
Canberra	2CA	1053	35	13	20	149	08	53	5k
Canberra	1RPH	1125	35	13	00	149	07	00	2k
Canberra	2CC	1206	35	13	09	149	07	21	5k
Canberra	2PB	1440	35	13	09	149	07	21	2k

NEW SOUTH WALES									
Albury		1296	36	3	22	146	57	48	540
Albury	2AY	1494	36	3	22	146	57	48	2k
Armidale	2RN	720	30	29	51	151	39	49	50
Armidale	2AD	1134	30	32	48	151	36	07	2k
Bathurst	2BS	1503	33	22	22	149	32	09	5k
Bega	2EC	765	36	44	41	149	56	16	4k
Bega	2BA	810	36	42	47	149	49	10	10k
Bourke	2WEB	585	30	06	09	145	58	51	5k
Bowral	2ST/T	1215	34	29	35	150	23	54	350
Broken Hill	2BH	567	31	56	25	141	26	36	500
Broken Hill	2NB	999	31	55	48	141	29	06	2k
Byrock	2BY	657	30	39	04	146	25	33	10k
Cobar	2DU/T	972	31	31	01	145	50	07	300
Coffs Harbour	2CS	639	30	28	19	153	01	53	5k
Cooma	2XL	918	36	14	23	149	08	56	2k
Cooma	2CP	1602	36	13	45	149	08	08	50

Corowa	2CO	675	35	57	26	146	25	05	10k
Cumnock	2CR	549	32	56	07	148	42	37	50k
Deniliquin	2QN	1521	35	37	37	144	54	42	2k
Dubbo	2DU	1251	32	16	21	148	40	32	2k
Glen Innes	2GL	819	29	47	31	151	45	52	10k
Gosford		801	33	19	44	151	27	53	5k
Goulburn	2RN	1098	34	44	50	149	41	44	200
Goulburn	2GN	1368	34	44	49	149	41	45	2k
Grafton	2NR	738	29	29	37	153	06	51	50k
Grafton	2GF	1206	29	40	01	152	58	57	5k
Griffith	2RG	963	34	19	48	146	07	57	5k
Gunnedah	2MO	1080	30	59	10	150	12	41	2k
Inverell	2NZ	1188	29	46	27	151	13	30	2k
Kempsey	2MC	531	31	06	29	152	49	56	5k
Kempsey	2KP	684	31	00	27	152	56	50	10k
Lismore	2LM	900	28	45	57	153	21	31	5k
Lithgow	2LT	900	33	24	23	150	06	00	5k
Lithgow (City)	2LG	1395	33	29	23	150	09	35	200
Moree	2VM	1530	29	29	08	149	53	26	2k
Mudgee	2MG	1449	32	34	59	149	34	11	5k
Murwillumbah	2ML	720	28	14	39	153	30	37	400
Murwillumbah	2MW	972	28	19	39	153	30	29	5k
Muswellbrook	2NM	981	32	17	42	150	49	53	5k
Muswellbrook	2UH	1044	32	14	10	150	55	05	2k
Narooma	2EC	1584	36	13	42	150	08	18	200
Newcastle	2HD	1143	32	51	55	151	42	09	2k
Newcastle	2NC	1233	32	48	03	151	39	39	10k
Newcastle		1341	32	53	28	151	40	47	5k
Newcastle	2EA	1413	32	51	25	151	42	02	5k
Newcastle	2PB	1458	32	48	03	151	39	39	2k
Newcastle	2RN	1512	32	48	03	151	39	39	10k
Nowra	2RN	603	35	06	00	150	33	20	10k
Nowra	2ST	999	34	53	26	150	32	01	5k
Orange	2GZ	1089	33	27	42	149	07	19	5k
Parkes/Forbes	2PK	1404	33	10	03	148	12	23	2k
Sydney	2RN	576	33	56	38	150	53	10	50k
Sydney	2PB	630	33	56	38	150	53	10	10k
Sydney	2BL	702	33	56	37	150	53	04	50k
Sydney	2GB	873	33	49	29	151	04	55	5k
Sydney	2KY	1017	33	50	23	151	03	40	5k
Sydney	2EA	1107	33	50	29	151	04	36	5k
Sydney	2CH	1170	33	50	29	151	04	36	5k
Sydney	2RPH	1224	33	48	34	150	54	50	5k
Sydney	2UE/2SM	1269	33	49	56	151	04	19	5k
Sydney	2UE/2SM	1539	33	49	56	151	04	19	1k

Tamworth	2NU	648	30	46	59	150	44	42	10k
Tamworth	2TM	1287	31	10	02	150	55	14	2k
Taree	2TR	756	31	49	24	152	24	54	2k
Taree	2RE	1557	31	55	38	152	27	52	2k
Wagga Wagga	2WG	1152	35	02	38	147	24	48	2k
Wilcannia	2RN	1485	31	33	11	143	22	48	100
Wilcannia	2WA	1584	31	33	11	143	22	48	100
Wollongong		1314	34	31	06	150	52	20	5k
Wollongong	2RN	1431	34	31	51	150	51	48	2k
Wollongong	2EA	1485	34	31	09	150	52	20	150
Wollongong		1575	34	31	09	150	52	20	5k
Young	2LF	1350	34	20	41	148	20	02	5k

VICTORIA

Albury/Wodonga	3RN	990	36	06	00	146	54	00	250
Ballarat	3BT	1314	37	32	30	143	46	27	5k
Bendigo		945	36	42	27	144	13	14	2k
Colac	3CS	1134	38	19	26	143	32	06	5k
Geelong		1341	38	10	30	144	27	30	5k
Hamilton	3HA	981	37	41	10	142	01	06	2k
Horsham	3WV	594	36	38	31	142	15	15	50k
Horsham	3WM	1089	36	44	43	142	31	12	5k
Maryborough (VIC)	3CV	1071	37	02	36	143	48	56	5k
Melbourne	3RN	621	37	43	19	144	46	58	50k
Melbourne	3EE	693	37	47	59	144	36	53	5k
Melbourne	3LO	774	37	43	19	144	46	58	50k
Melbourne	3CR	855	37	53	17	144	42	10	2k
Melbourne	3UZ	927	37	44	21	145	06	05	5k
Melbourne	3PB	1026	37	44	13	145	05	36	5k
Melbourne		1116	37	45	01	145	06	49	5k
Melbourne	3RPH	1179	37	44	35	145	06	37	5k
Melbourne	3EA	1224	37	37	13	144	55	56	5k
Melbourne	3AW	1278	37	44	47	145	06	33	5k
Melbourne	3MP	1377	37	56	05	145	13	00	5k
Melbourne		1422	37	49	04	144	45	02	5k
Melbourne	3AK	1503	37	44	47	145	06	33	5k
Melbourne		1593	37	38	14	145	01	28	5k
Mildura/Sunraysia		1359	34	11	55	142	10	20	200
Mildura/Sunraysia	3MA	1467	34	10	45	142	07	15	2k
Omeo	3MT	720	37	08	52	147	39	23	2k
Sale	3GI	828	38	11	23	147	05	38	10k
Sale	3TR	1242	38	03	46	147	01	51	5k
Shepparton	3SR	1260	36	22	51	145	32	10	2k
Shepparton		1413	36	22	51	145	32	10	500
Swan Hill	3SH	1332	35	24	40	143	34	49	2k
Wangaratta	3RN	756	36	16	24	146	18	35	10k

Wangaratta	3NE	1566	36	18	58	146	22	12	5k
Warragul	3GG	531	38	6	21	145	55	28	5k
Warrnambool	3YB	882	38	20	13	142	30	29	2k
Warrnambool	3WL	1602	38	22	00	142	30	00	250

QUEENSLAND

Atherton	4AM	558	17	01	31	145	28	38	5k
Atherton	4AT	720	17	18	41	145	33	17	4k
Biloela	4CC/T	666	24	23	39	150	29	19	2k
Brisbane	4QR	612	27	18	47	153	00	59	50k
Brisbane	4KQ	693	27	22	56	153	14	05	5k
Brisbane	4RN	792	27	18	47	153	00	59	25k
Brisbane	4BH	882	27	27	55	153	08	48	5k
Brisbane	4PB	936	27	18	47	153	00	59	10k
Brisbane	4TAB	1008	27	22	56	153	14	05	5k
Brisbane	4EB	1053	27	31	00	152	59	48	500
Brisbane	4BC	1116	27	31	53	152	57	56	5k
Brisbane	4RPH	1296	27	27	55	153	07	21	5k
Bundaberg	4BU	1332	24	50	44	152	24	15	5k
Cairns	4QY	801	17	03	15	145	46	39	2k
Cairns	4CA	846	16	54	14	145	49	08	5k
Charleville	4CH	603	26	15	21	146	18	07	10k
Charters Towers	4GC	828	20	04	02	146	17	18	1k
Cloncurry	4LM/T	693	20	41	52	140	29	55	500
Cunnamulla	4VL	918	26	23	52	146	13	05	2k
Cunnamulla	4VL/T	1584	28	06	49	145	41	30	200
Dalby	4QS	747	27	08	47	151	18	02	10k
Dysart	4HI/T	945	22	34	23	148	21	57	1k
Eidsvold	4QO	855	25	24	34	151	07	16	10k
Emerald	4HI	1143	23	32	36	148	11	57	5k
Emerald	4QD	1548	23	25	37	148	08	57	50k
Gladstone	4CC	927	23	51	37	151	14	14	5k
Gladstone	4RO/T	1125	23	51	40	151	14	21	500
Gordonvale	4CA/T	954	17	08	11	145	51	18	350
Gympie	4GY	558	26	10	21	152	49	22	5k
Gympie	4GM	1566	26	12	43	152	41	16	200
Hughenden	4GC/T	765	20	51	00	144	10	30	500
Hughenden	4HU	1485	20	50	43	144	10	59	50
Innisfail	4KZ	531	17	31	53	146	03	08	5k
Innisfail		873	17	31	53	146	03	08	2k
Julia Creek	4JK	567	20	39	09	141	49	15	10k
Kingaroy	4SB	1071	26	24	06	151	49	33	2k
Longreach	4QL	540	23	23	29	144	16	26	10k
Longreach	4LG	1098	23	23	42	144	13	03	2k
Mackay	4MK	1026	21	07	21	149	12	31	5k

Maryborough (QLD)	4MB	1161	25	27	48	152	43	32	2k
Moranbah	4HI/T	1215	22	00	13	148	01	23	250
Mossman	4MS	639	16	24	59	145	23	14	1k
Mount Isa	4LM	666	20	42	60	139	30	38	2k
Oakey	4AK	1242	27	27	36	151	45	19	2k
Pialba	4QB	855	25	16	29	152	49	38	10k
Port Douglas	4AM/T	1422	16	30	00	145	27	01	1k
Rockhampton	4RK	837	23	27	12	150	27	21	10k
Rockhampton	4RO	990	23	35	06	150	50	39	5k
Rockhampton	4CC/T	1584	23	21	11	150	27	46	500
Roma/St George	4QW	711	27	59	52	148	40	26	10k
Roma/St George	4ZR	1476	26	34	09	148	49	02	2k
Toowoomba	4GR	864	27	36	01	151	54	39	2k
Toowoomba (City)	4WK	1359	27	32	21	151	56	54	250
Torres Strait	4TI	1062	10	34	55	142	12	25	2k
Torres Strait	4MW	1260	10	34	55	142	12	25	2k
Townsville	4QN	630	19	30	42	147	20	21	50k
Townsville	4TOO	774	19	19	11	147	01	53	5k
Townsville		891	19	18	19	147	02	07	5k
Warwick	4WK	963	28	01	27	151	58	36	5k
Weipa	4WP	1044	12	37	19	141	53	20	500

SOUTH AUSTRALIA

Adelaide	5UV	531	34	50	08	138	34	28	500
Adelaide	5RN	729	35	06	19	138	31	02	50k
Adelaide	5AN	891	35	06	19	138	31	02	50k
Adelaide	5PB	972	34	50	17	138	34	04	2k
Adelaide	5RPH	1197	34	50	28	138	35	35	2k
Adelaide	5DN	1323	34	50	28	138	35	35	2k
Adelaide	5AA	1395	34	45	35	138	36	26	5k
Adelaide		1539	34	45	33	138	36	28	10k
Leigh Creek South	5LC	1602	30	36	03	138	24	10	200
Mt Gambier	5SE	963	37	47	51	140	43	14	5k
Mt Gambier	5MG	1584	37	49	33	140	47	20	200
Murray Bridge	5MU	1125	35	09	14	139	12	50	5k
Naracoorte	5PA	1161	36	56	28	140	40	15	10k
Port Augusta	5AU	1242	32	49	52	137	56	04	2k
Port Lincoln	5CC	765	34	14	23	136	12	07	5k
Port Lincoln	5LN	1485	34	43	51	135	52	41	200
Port Pirie	5CK	639	33	20	47	138	15	09	10k
Port Pirie	5CS	1044	33	19	40	138	16	33	2k
Renmark/Loxton	5RM	801	34	13	47	140	38	30	2k
Renmark/Loxton	5MV	1062	34	16	00	140	37	18	2k
Renmark/Loxton	5RN	1305	34	16	00	140	37	18	2k
Renmark/Loxton		1557	34	16	00	140	37	18	500
Streaky Bay	5SY	693	32	45	29	134	11	19	2k

Woomera	5WM	1584	31	12	06	136	49	33	50
WESTERN AUSTRALIA									
Albany	6AL	630	35	00	43	117	49	11	5k
Albany	6VA	783	35	00	48	117	50	50	2k
Bridgetown	6BY	900	34	03	19	116	10	35	2k
Bridgetown	6BR	1044	33	55	20	116	7	13	1k
Broome	6BE	675	17	53	21	122	15	42	5k
Bunbury	6EL	621	33	20	31	115	45	5	2k
Bunbury	6TZ	963	33	20	31	115	45	5	2k
Bunbury		1017	33	20	31	115	45	5	1k
Busselton	6BS	684	33	39	40	115	13	40	4k
Busselton	6RN	1224	33	39	40	115	13	40	5k
Busselton		1404	33	39	40	115	13	40	4k
Carnarvon	6LN	666	24	52	26	113	40	7	1k
Carnarvon	6CA	846	24	52	26	113	40	7	3k
Christmas Island	6ABCRN	1422	10	26	00	105	41	0	500
Collie	6TZ/T	1134	33	22	15	116	11	34	2k
Dalwallinu	6DL	531	30	17	24	116	36	29	10k
Dalwallinu	6RN	612	30	17	24	116	36	29	10k
Derby	6DB	873	17	21	16	123	40	6	2k
Esperance	6SE	747	33	46	17	121	52	29	5k
Esperance	6ED	837	33	45	15	121	51	31	1k
Exmouth	6LN/T	747	21	57	33	114	7	42	1k
Exmouth	6XM	1188	22	57	33	114	07	40	2k
Fitzroy Crossing	6FX	936	18	19	56	125	40	45	5k
Geraldton	6GN	828	28	39	43	114	42	18	10k
Geraldton		1008	28	43	58	114	37	21	2k
Kalgoorlie	6GF	648	30	47	02	121	24	10	2k
Kalgoorlie	6KG	981	30	44	12	121	29	56	2k
Kalgoorlie		1431	30	44	12	121	29	56	2k
Karratha	6KP	702	20	44	00	116	50	00	10k
Karratha	6KA	1260	20	43	39	116	49	38	1k
Katanning	6WB	1071	33	38	54	117	29	54	2k
Kununurra	6WR	693	15	45	55	128	43	52	5k
Kununurra	6KW	819	15	45	55	128	43	52	5k
Mandurah	6MM	1116	32	38	33	115	48	06	2k
Mandurah		1449	32	38	33	115	48	06	2k
Manjimup	6MJ	738	34	19	19	116	08	37	5k
Manjimup	6RN	1152	34	19	19	116	08	37	10k
Margaret River	6TZ	756	33	48	00	115	07	02	2k
Merredin	6MD	1098	31	30	13	118	12	13	2k
Narrogin	6NA	918	32	57	49	117	12	58	2k
Narrogin	6NAN	1251	32	57	49	117	12	58	2k
Newman	6MN	567	23	21	00	119	43	23	100

Northam	6AM	864	31	40	37	116	36	35	2k
Northam	6NM	1215	31	39	46	116	40	49	500
Northam		1323	31	40	30	116	36	30	1k
Pannawonica	6PN	567	21	39	47	116	20	32	100
Paraburdoo	6PU	567	23	13	04	117	39	51	100
Paraburdoo	6KA/T	765	23	13	04	117	39	51	100
Perth	6PB	585	31	51	21	115	49	04	10k
Perth	6WF	720	31	51	21	115	49	04	50k
Perth	6RN	810	31	51	21	115	49	04	10k
Perth	6PR	882	32	00	22	115	50	38	2k
Perth	6NR	927	32	00	49	115	53	25	2k
Perth	6RPH	990	32	00	22	115	50	38	2k
Perth	6IX	1080	31	56	11	115	54	49	2k
Perth	6AR	1170	32	01	55	115	48	46	2k
Perth		1206	31	56	11	115	54	49	2k
Port Hedland	6PH	603	20	24	02	118	40	25	2k
Port Hedland	6NW	1026	20	22	47	118	34	55	2k
Tom Price	6TP	567	22	42	02	117	46	24	100
Tom Price	6KA/T	765	22	42	00	117	45	00	100
Wagin	6WA	558	33	20	18	117	05	29	50k
Wagin	6RN	1296	33	20	18	117	05	29	10k
Wagin		1422	33	20	30	117	05	30	2k
Wyndham	6WH	1017	15	29	45	128	08	08	500

TASMANIA

Burnie	7BU	558	40	57	48	145	43	21	2k
Devonport	7AD	900	41	9	51	146	18	36	2k
Fingal	7FG	1161	41	41	26	147	52	28	1k
Hobart	7RN	585	42	55	36	147	29	51	10k
Hobart	7PB	729	42	55	36	147	29	51	2k
Hobart	7RPH	864	42	57	03	147	30	09	2k
Hobart	7ZR	936	42	55	36	147	29	51	10k
Hobart		1080	42	56	21	147	30	31	5k
Launceston	7EX	1008	41	27	11	147	12	51	5k
Launceston	7LA	1098	41	22	52	147	08	47	5k
Queenstown	7RN	630	42	02	48	145	31	40	400
Queenstown	7XS	837	42	05	50	145	32	43	500
Scottsdale	7SD	540	41	06	41	147	32	36	5k
St Helens	7SH	1584	41	20	06	148	17	10	100

NORTHERN TERRITORY

Alice Springs	8AL	783	23	46	08	133	52	15	2k
Alice Springs	8HA	900	23	46	08	133	52	15	2k
Darwin	8RN	657	12	25	32	130	50	55	2k
Darwin		1242	12	25	32	130	50	55	2k
Jabiru	8JB	747	12	39	26	132	50	54	200

Katherine	8RN	639	14	23	52	132	10	42	2k
Katherine	8HOT/T	765	14	26	46	132	16	22	500
Nhulunbuy	8GO	990	12	11	27	136	47	31	500
Tennant Creek	8RN	684	19	40	07	134	13	22	1k

RA TRANSMITTERS**1. RADIO AUSTRALIA (RA) TRANSMISSION SCHEDULE**

Radio Australia broadcasts through transmitting stations at Shepparton (S) and Brandon (B). Times shown are in UTS. All FREQ are in kilohertz.

1.1 ASIA - ENGLISH SERVICES

TIME	FREQ
0000-0500	17750 (S)
0100-0500	15415 (S)
0600-0900	15415 (S)
0600-1100	17750 (S)
0900-1200	6080 (S)
0900-1100	11880 (S)
1400-1800	5995 (S)
1430-1700	11660 (S)
1430-2130	9500 (S)

2. PACIFIC - PAPUA NEW GUINEA, SOLOMON ISLANDS, MICRONESIA, GUAM AND JAPAN

TIME	FREQ
1800-2000	6080 (S), 7240 (S)
1800-2100	9660 (S)
2100-2200	7240 (S), 9660 (B)
2100-0800	17715 (S)
2300-0800	9660 (B)
0000-0800	15240 (S)
0200-0900	21725 (S)
0800-0900	5995 (B), 9710 (S)
0800-1200	9580 (S)
0900-1400	6080 (S)
1200-1400	6020 (S), 5995 (B)
1200-2100	9660 (S)

3. PACIFIC - SOUTH WEST AND CENTRAL PACIFIC OCEAN AND USA

TIME	FREQ
2000-2200	12080 (B)
2100-0800	17715 (S)
2100-0200	21740 (S)
2100-2200	7240 (S)
2200-0200	17795 (S)
2300-0900	12080 (B)
0200-0900	15510 (S)
0800-1200	9580 (S)
1200-2130	9580 (S)
1200-2100	9660 (S)
1200-1400	6020 (S)
1400-1800	5995 (S)

1700-2200	11880 (S)
1800-2000	7240 (S)

3.1 OTHER REGIONS

3.1.1 RA broadcasts are directed to the Asia-Pacific region. These broadcasts may be heard in other regions but reception may be variable. RA broadcasts directed to the central Pacific may be heard in North America (eg 9580, 5995, 9860 & 11800 KHZ). Broadcasts directed at South Asia may be heard in the Middle East and Europe (eg , 11660 & 21725 KHZ).

3.2 RA NEWS REPORTING

3.2.1 World news with emphasis on the Asia-Pacific regions is broadcast on the hour, seven days a week. Detailed Australian news is broadcast Monday to Friday at 0105, 0305, 0505, 0905, 1105, 1305, 1505, 2305 UTC and in Saturday and Sunday 0905, 1105, 1305 and 1505 UTC. Asian news is broadcast at 1005, 1205 and 1405 daily. Pacific news is broadcast at 0705 and 1905 UTC Monday to Friday.

3.3 RA TRANSMISSION INFORMATION

3.3.1 Detailed information on RA satellite, internet and other HF services may be obtained from:

Radio Australia
Transmissions Manager
GPO Box 428G
Melbourne
VIC 3001

or:

FAX +61 3 96261917(International) 03 96261917 (Australia)

Phone +61 3 96261800 03 96261800

or

VIA THE INTERNET

<http://www.abc.net.au/ra/>

3.3.2 RA would appreciate reception reports, however a personal reply may not be possible in all cases. Reports should be sent to:

English Language Programs
Radio Australia
GPO Box 428G
Melbourne VIC 3001 Australia
Or FAX +61 3 9629 1899

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