Aust. J. Phys. Astrophys. Suppl., 1975, No. 34, 55–62

The Parkes 2700 MHz Survey (Ninth Part) Supplementary Catalogue for the Declination Zone −45° to −65°

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Abstract

A catalogue of 166 radio sources is presented, covering an area of 0.63 sr with right ascensions 00^h to 03^h, 04^h to 08^h30^m, 17^h30^m to 19^h and 20^h to 23^h between declinations −45° and −65°. The regions omitted are either close to the galactic plane (08^h30^m to 17^h30^m) or are covered in the third part of the Parkes 2700 MHz survey. The catalogue was compiled from a 'fast' finding survey at 2700 MHz aimed at detecting sources stronger than 0.5 Jy. Subsequent measurements at 2700 and 5009 MHz of flux density and position were made for all sources which were not in the Parkes 408 MHz catalogue and for 42 sources in the 408 MHz catalogue for which only data of low accuracy were available.

Introduction

This is the second section (see also Bolton *et al.* 1975, pp. 1-32 of this Supplement) of the Parkes 2700 MHz survey to be limited to sources stronger than 0.5 Jy. The aim of the observations reported in these supplementary catalogues is to survey the whole sky visible to the Parkes 64 m telescope, excluding the region close to the galactic plane, to a source density of ~160 sr^{-1}. The present surveyed region covers an area of 0.63 sr, which is half of the area between declinations −45° and −65°. Omitted from the survey were the region between right ascensions 08^h30^m and 17^h30^m, which is close to the galactic plane, and the regions between right ascensions 03^h and 04^h, 19^h and 20^h, and 23^h and 00^h, which had already been surveyed to a higher source density (Shimmins 1971).

Equipment and On-line Analysis

A full description of equipment, method of observation and on-line computer analysis of the 'fast' survey are given in the seventh part of the survey (Bolton *et al.* 1975). Briefly, the 2700 MHz correlation receiver and dual-feed system was used as in previous surveys. The output of the 2700 MHz receiver represents the difference in signals received by an on-axis beam 7′.9 arc between half-power points and a slightly broader beam displaced by 18′.5 arc off axis. The off-axis beam was maintained at position angle 270° (i.e. offset in right ascension) and the area was surveyed with scans in declination at a rate of 10° min^{-1}. The separation between adjacent scans was 35 s in right ascension (6′.2 arc on the sky at declination −45° and 3′.7 arc at declination −65°).

The receiver output was recorded on a strip chart and also digitally by means of a PDP-9 computer. At the end of each scan, the computer provided a list of approximate positions and flux densities of all sources detected above a specified level of 0.35 Jy. Because of the low signal-to-noise ratio, the detection technique failed for a few sources near the detection limit, and for the second source of close pairs. All such sources were detected in a subsequent comparison of the analogue record and computer output, and they were measured manually from the analogue record, thus ensuring the completeness of the survey.

Positions and Flux Densities

The survey was made in December 1972. From the analogue and computer records, a list was compiled of all sources which gave deflections on a single scan estimated to be greater than 0.35 Jy. Sources common to the Parkes 408 MHz catalogue were eliminated from the list, with the exception of 42 sources for which data at 2700 and 5009 MHz were either of low accuracy or did not exist. For the remainder, positions and flux densities were measured at both frequencies. The epochs of these observations are:

Run 1, 2700 MHz, January 1973; Run 2, 5009 MHz, March 1973.

The measurements were made from forward-reverse scan pairs in right ascension and declination, as described in previous papers (e.g. Bolton and Shimmins 1973). The flux densities were measured by comparison with a 1 K noise signal injected at the input of the receiver. The flux density value of the noise signal was determined from observations of Hydra A (assumed peak flux density 23.50 Jy at 2700 MHz and 13.05 Jy at 5009 MHz). The errors are estimated to be the same as in previous sections of the survey, i.e. ±0.02 Jy due to noise and confusion and 3% due to uncertainty in the scale factor.

Telescope pointing corrections applied to the apparent positions were derived from position calibrator sources measured in the course of the observations. Unfortunately few of these sources are within the surveyed region, and further corrections were made by comparing the positions with those given for eight sources by Hunstead (1972). The 2700 and 5009 MHz positions were averaged, except for a few cases where the 5009 MHz position was clearly superior because of confusion in the 2700 MHz observations. The r.m.s. errors in the final positions are probably 12″ arc in each coordinate, but this estimate is somewhat uncertain owing to the small number of relevant calibration sources.

Catalogue

Table 1 (at the end of the paper) is the supplementary catalogue for declination zone −45° to −65°. Column 1 contains the source number, the seven-digit numbers indicating sources found in the present 2700 MHz survey and the six-digit numbers indicating sources in the Parkes 408 MHz catalogue. Columns 2 and 3 contain the equatorial coordinates and columns 4 and 5 the galactic coordinates of the source. Annual precession is given in columns 6 and 7, run numbers referring to the epochs of observation at 2700 and 5009 MHz in column 8 and the flux densities at these frequencies in columns 9 and 10.

Identification and optical magnitude for the few sources where these are known are given in column 11. Abbreviations used are: D, DB and S0, galaxies of the corresponding optical type; G, a galaxy too faint to classify; Q, a quasi-stellar object; IIIA, stars only, with obscuration probably present.

Column 12 contains additional remarks, including alternative source numbers from the MSH catalogue (Mills *et al.* 1960, 1961), the catalogue of McGee *et al.* (1972) (prefixed MC) and the Index Catalogue (prefixed IC). Abbreviations used in this column are: CONF, confused; EXT, extended, sometimes followed by the direction of extension (RA, right ascension or DEC, declination); OA, a source just outside the nominal area of the catalogue; RAD VAR, a radio variable; Z, redshift. For most of the extended sources an estimate is given of the factor (A or B) by which the peak flux density given in column 9 or 10 respectively has to be increased to give the integrated flux density.

Acknowledgments

We thank Mr P. W. Butler for his assistance in making the observations, Mrs Jenny Trett for assistance with the preparation of the catalogue, and the telescope operators for their diligence and skill in driving the telescope for the 'fast' survey.

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Manuscript received 26 June 1974

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TABLE 1

2700 MHZ SURVEY - SUPPLEMENT FOR DECLINATION ZONE -45 TO -65 DEG

(1)	(2)			(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Parkes source number	Position (1950) R.A. h	m	s	Dec. °	'	"	Galactic coordinates l °	b °	Annual precession R.A. s	Dec. "	Run	2700 flux den. (Jy)	5000 flux den. (Jy)	Identification	Remarks
0000-566	00	00	17.0	-56	37	56	316.2	-59.5	3.07	20.0	1,2	0.60	0.32		
0001-531	00	01	42.1	-53	11	18	318.5	-62.7	3.06	20.0	1,2	0.52	0.28		
0013-63	00	13	37.5	-63	26	42	309.6	-53.5	2.91	20.0	1,2	0.82	0.45		00-61
0016-515	00	16	21.0	-51	31	30	315.1	-65.1	2.95	20.0	1,2	0.55	0.27		
0022-60	00	22	52.0	-60	45	03	308.7	-56.3	2.83	19.9	1,2	0.74	0.37		
0024-495	00	24	14.9	-49	35	27	313.4	-67.3	2.91	19.9	1,2	0.66	0.34		
0028-505	00	28	13.1	-50	35	12	311.3	-66.4	2.87	19.9	1,2	0.60	0.28		
0036-62	00	36	30.4	-62	47	33	305.5	-54.5	2.66	19.8	1,2	0.80	0.46		
0037-593	00	37	51.0	-59	20	19	305.7	-58.0	2.70	19.8	1,2	0.53	0.32		
0043-63	00	43	55.0	-63	50	22	303.9	-53.5	2.55	19.7	1,2	0.62	0.26		
0044-560	00	44	19.1	-56	04	27	304.3	-61.3	2.69	19.7	1,2	0.43	0.23		
0046-585	00	46	34.0	-58	32	27	303.6	-58.8	2.63	19.6	1,2	0.28	0.15		
0047-646	00	47	00.9	-64	41	24	303.3	-52.7	2.50	19.6	1,2	0.54	0.34		
0047-579	00	47	46.7	-57	54	36	303.3	-59.5	2.63	19.6	1,2	1.96	2.19		
0058-507	00	58	34.1	-50	47	40	299.2	-66.5	2.66	19.4	1,2	0.61	0.30		00-54
0101-649	01	01	33.7	-64	55	00	300.8	-52.4	2.31	19.3	1,2	0.40	0.27		EXT IN DEC. B=1.1
0119-63	01	19	52.9	-63	24	46	297.2	-53.6	2.16	18.8	1,2	0.73	0.39		01-61
0126-53	01	26	31.8	-53	10	43	290.4	-63.3	2.41	18.6	1,2	0.56	0.34		01-54
0129-51	01	29	13.6	-51	17	02	288.1	-64.9	2.44	18.5	1,2	0.61	0.27		01-55
0130-620	01	30	39.7	-62	02	00	294.6	-54.6	2.10	18.5	1,2	0.59	0.30		
0131-522	01	31	05.0	-52	15	20	288.3	-63.9	2.40	18.5	1,2	1.09	1.18		
0141-457	01	41	22.8	-45	44	54	276.9	-68.9	2.49	18.1	1,2	0.67	0.38		
0147-579	01	47	07.8	-57	59	13	288.6	-57.7	2.11	17.9	1,2	0.61	0.32		01-58
0150-559	01	50	30.7	-55	55	00	286.0	-59.4	2.16	17.8	1,2	0.42	0.18		
0155-549	01	55	04.0	-54	54	12	283.9	-60.0	2.16	17.6	1,2	0.48	0.47		
0158-484	01	58	04.7	-48	28	57	275.2	-65.0	2.33	17.4	1,2	0.78	0.37		
0203-552	02	03	02.0	-55	17	20	282.4	-59.0	2.08	17.2	1,2	0.40	0.26		
0208-512	02	08	58.0	-51	14	59	276.1	-61.8	2.18	16.9	1,2	3.56	3.21		
0209-621	02	09	59.9	-62	10	20	287.5	-52.7	1.71	16.9	1,2	0.54	0.31		
0211-479	02	11	16.5	-47	57	50	270.6	-63.9	2.27	16.8	1,2	0.60	0.21		EXT IN DEC. A=1.2 B=2.2
0212-615	02	12	34.4	-61	31	52	286.6	-53.1	1.72	16.8	1,2	0.36	0.27		
0214-522	02	14	19.9	-52	14	06	276.1	-60.5	2.12	16.7	1,2	0.70	0.55		
0214-48	02	14	55.2	-48	02	50	269.8	-63.4	2.25	16.7	1,2	1.33	0.79		02-43. EXT IN DEC. B=1.2
0215-575	02	15	35.3	-57	31	50	282.1	-56.2	1.90	16.6	1,2	0.53	0.31		02-51
0216-475	02	16	22.0	-47	31	50	268.6	-63.6	2.25	16.6	1,2	0.50	0.32		

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TABLE 1

2700 MHZ SURVEY - SUPPLEMENT FOR DECLINATION ZONE -45 TO -65 DEG

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Parkes source number	Position (1950) R.A. h m s	Dec. ° ' "	Galactic coordinates l °	b °	Annual precession R.A. s	Dec. "	Run	2700 flux den. (Jy)	5000 flux den. (Jy)	Identification	Remarks
0227-527	02 27 46.5	-52 44 49	273.9	-58.7	2.02	16.0	1,2	0.98	0.63		
0230-516	02 30 34.5	-51 40 40	271.8	-59.1	2.04	15.9	1,2	0.54	0.31		
0241-51	02 42 07.0	-51 25 20	269.2	-57.9	1.98	15.2	1,2	0.86	0.48		02-53. EXT IN DEC. B=1.3
0244-470	02 44 14.8	-47 03 56	261.8	-60.1	2.13	15.1	1,2	0.73	0.59		
0248-600	02 48 18.5	-60 01 30	279.4	-51.5	1.52	14.9	1,2	0.48	0.27		
0248-561	02 48 22.7	-56 08 35	274.7	-54.2	1.74	14.9	1,2	0.62	0.37		
0252-549	02 52 02.8	-54 54 03	272.5	-54.6	1.77	14.6	1,2	0.76	0.96		
0254-491	02 54 14.3	-49 10 46	263.7	-57.5	2.01	14.5	1,2	0.36	0.15		
0254-484	02 54 20.1	-48 27 52	262.5	-57.9	2.03	14.5	1,2	0.31	0.16		
0257-510	02 57 04.0	-51 04 00	266.2	-56.2	1.92	14.3	1,2	0.45	0.39		
0400-643	04 00 03.2	-64 21 03	277.4	-42.3	0.66	10.0	1,2	0.42	0.26		
0401-506	04 01 50.1	-50 38 37	259.2	-46.9	1.65	9.9	1,2	0.52	0.30		
0402-477	04 02 18.7	-47 46 46	255.0	-47.5	1.79	9.8	1,2	0.57	0.41		
0409-526	04 09 07.5	-52 40 26	261.6	-45.3	1.52	9.3	1,2	0.72	0.37		EXT IN DEC. B=1.1
0411-647	04 11 36.3	-64 43 53	277.1	-41.0	0.55	9.1	1,2	0.71	0.38		
0411-56	04 11 44.0	-56 08 15	266.2	-44.0	1.30	9.1	1,2	1.29	0.68		04-52
0419-580	04 19 46.8	-58 03 16	268.2	-42.4	1.13	8.5	1,2	0.54	0.32		
0420-62	04 20 19.0	-62 30 41	273.9	-41.0	0.74	8.4	1,2	1.68	0.84		04-63
0427-53	04 27 57.9	-53 56 00	262.5	-42.3	1.38	7.8	1,2	2.96	1.60	DB 13.2M	04-54. IC2082. Z=0.0392
0430-624	04 30 56.5	-62 24 44	273.2	-39.8	0.70	7.6	1,2	0.33	0.19		
0431-512	04 31 06.3	-51 15 32	258.8	-42.3	1.53	7.6	1,2	0.68	0.59		
0435-587	04 35 53.4	-58 46 05	268.4	-40.2	1.01	7.2	1,2	0.39	0.24		CONF AT 2700 MHZ
0437-454	04 37 33.7	-45 28 05	250.9	-41.7	1.80	7.0	1,2	1.22	1.37		
0447-527	04 47 23.9	-52 46 14	260.4	-39.6	1.40	6.2	1,2	0.64	0.35		
0452-515	04 52 24.4	-51 35 03	258.8	-39.0	1.46	5.8	1,2	0.43	0.35		
0454-46	04 54 27.5	-46 20 32	252.0	-38.8	1.73	5.6	1,2	2.36	2.04		04-412. RAD VAR
0503-608	05 03 26.2	-60 53 47	270.2	-36.4	0.74	4.9	1,2	0.42	0.65		
0506-61	05 06 08.1	-61 13 30	270.6	-36.0	0.70	4.7	1,2	1.89	2.05	Q 17.5M	05-61. RAD VAR
0506-502	05 06 09.2	-50 17 15	257.0	-36.8	1.51	4.6	1,2	0.47	0.28		
0507-627	05 07 21.7	-62 46 12	272.5	-35.7	0.54	4.5	1,2	0.69	0.33		
0514-459	05 14 18.5	-45 59 54	251.8	-35.3	1.72	4.0	1,2	1.29	1.03		
0517-56	05 17 27.4	-56 17 16	264.4	-35.0	1.10	3.7	1,2	0.77	0.44		
0521-483	05 21 59.0	-48 19 06	254.7	-34.2	1.59	3.3	1,2	0.61	0.42		
0522-611	05 22 01.0	-61 10 41	270.3	-34.1	0.67	3.3	1,2	0.71	0.67		
0523-570	05 23 48.1	-57 01 24	265.2	-34.1	1.04	3.1	1,2	0.73	0.51		

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TABLE 1

2700 MHZ SURVEY - SUPPLEMENT FOR DECLINATION ZONE -45 TO -65 DEG

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Parkes source number	Position (1950) R.A. h m s	Dec. ° ' "	Galactic coordinates l °	b °	Annual precession R.A. s	Dec. "	Run	2700 flux den. (Jy)	5000 flux den. (Jy)	Identification	Remarks
0524-460	05 24 05.7	-46 00 25	252.0	-33.6	1.70	3.1	1,2	0.91	0.94		
0532-638	05 32 27.0	-63 49 45	273.3	-32.8	0.37	2.4	1,2	0.43	0.23		
0533-512	05 33 14.5	-51 14 56	258.4	-32.6	1.42	2.3	1,2	0.54	0.38		
0534-61	05 34 15.2	-61 23 43	270.4	-32.7	0.63	2.2	1,2	0.70	0.36		
0541-488	05 41 10.8	-48 51 38	255.7	-31.1	1.55	1.6	1,2	0.65	0.38		
0543-479	05 43 49.0	-47 58 01	254.8	-30.5	1.59	1.4	1,2	0.42	0.22		EXT IN RA. B=1.1
0550-569	05 50 48.9	-56 55 22	265.2	-30.5	1.02	0.8	1,2	0.48	0.29		
0551-461	05 51 49.0	-46 11 16	253.0	-28.9	1.68	0.7	1,2	0.83	0.56		
0602-64	06 02 24.8	-64 43 18	274.3	-29.5	0.24	-0.2	1,2	0.70	0.31		MC94
0605-494	06 05 42.0	-49 28 48	257.1	-27.2	1.51	-0.5	1,2	0.61	0.39		
0607-605	06 07 18.3	-60 31 00	269.6	-28.6	0.71	-0.7	1,2	0.34	0.45		PART OF 0607-60 AND 06-62
0609-606	06 09 12.5	-60 41 37	269.8	-28.4	0.69	-0.8	1,2	0.39	0.20		PART OF 0607-60 AND 06-62
0612-47	06 12 10.2	-47 26 15	255.2	-25.8	1.62	-1.1	1,2	0.74	0.43		06-43
0616-48	06 16 49.2	-48 43 24	256.8	-25.3	1.55	-1.5	1,2	0.99	0.44	D 15M	06-44. EXT. A=1.2 B=1.4
0619-450	06 19 34.3	-45 03 04	253.0	-23.9	1.74	-1.7	1,2	0.81	0.56		06-45
0619-468	06 19 50.0	-46 50 30	254.9	-24.3	1.65	-1.8	1,2	0.43	0.56		06-46. EXT IN DEC OR DOUBLE
0621-595	06 21 11.1	-59 33 32	268.7	-26.8	0.81	-1.9	1,2	0.81	0.58		
0624-626	06 24 17.5	-62 38 34	272.2	-26.9	0.50	-2.1	1,2	0.45	0.23		
0625-53	06 25 18.0	-53 39 27	262.4	-25.1	1.27	-2.2	1,2	3.70	1.80	DB 15.4M	06-55
0625-545	06 25 46.2	-54 30 38	263.3	-25.2	1.21	-2.3	1,2	1.73	0.87		
0628-627	06 28 30.2	-62 46 10	272.4	-26.4	0.49	-2.5	1,2	0.37	0.44		
0641-458	06 41 50.7	-45 52 30	255.1	-20.4	1.72	-3.7	1,2	0.56	0.24		
0647-475	06 47 25.0	-47 30 59	257.0	-20.1	1.64	-4.1	1,2	1.14	0.62		
0649-557	06 49 22.0	-55 45 42	265.6	-22.3	1.15	-4.3	1,2	0.66	0.30		
0651-60	06 51 14.0	-60 18 30	270.4	-23.3	0.79	-4.5	1,2	0.82	0.45		06-63
0651-56	06 51 47.5	-56 38 57	266.6	-22.2	1.09	-4.5	1,2	0.93	0.55		06-57
0656-615	06 56 27.2	-61 35 18	271.9	-23.0	0.67	-4.9	1,2	0.45	0.35		
0700-47	07 00 45.0	-47 21 58	257.7	-17.9	1.67	-5.3	1,2	0.60	0.24		07-41
0718-633	07 18 38.3	-63 20 56	274.6	-21.1	0.56	-6.8	1,2	0.41	0.32		
0719-55	07 19 12.1	-55 19 35	266.6	-18.2	1.25	-6.8	1,2	1.22	0.69	G 19M	07-53
0720-52	07 20 09.0	-52 50 50	264.3	-17.1	1.42	-6.9	1,2	0.53	0.32		07-54
0725-444	07 25 25.0	-44 29 01	256.8	-12.8	1.85	-7.3	1,2	0.45	0.35		OA
0729-52	07 29 51.5	-52 30 38	264.6	-15.6	1.46	-7.7	1,2	0.56	0.31		07-55. EXT IN DEC. B=1.1
0731-465	07 31 16.3	-46 33 53	259.2	-12.8	1.77	-7.8	1,2	0.83	0.76		
0737-594	07 37 54.7	-59 27 59	271.7	-17.5	1.01	-8.3	1,2	0.60	0.37		

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TABLE 1

2700 MHZ SURVEY - SUPPLEMENT FOR DECLINATION ZONE -45 TO -65 DEG

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Parkes source number	Position (1950) R.A. h m s	Dec. ° ' "	Galactic coordinates l °	b °	Annual precession R.A. s	Dec. "	Run	2700 flux den. (Jy)	5000 flux den. (Jy)	Identification	Remarks
0740-524	07 40 32.0	-52 26 57	265.3	-14.1	1.50	-8.5	1,2	0.71	0.46		
0748-45	07 48 03.6	-45 28 54	259.6	-9.7	1.86	-9.1	1,2	1.01	0.60		07-413
0748-44	07 48 06.2	-44 04 46	258.3	-9.0	1.92	-9.1	1,2	1.17	0.67	IIIA	07-412. OA
0809-492	08 09 40.4	-49 20 35	264.8	-8.6	1.76	-10.8	1,2	0.88	0.75		CONF AT 2700 MHZ
0809-499	08 09 57.7	-49 59 01	265.4	-8.9	1.73	-10.8	1,2	0.72	0.37		
0816-594	08 16 45.0	-59 27 36	274.1	-13.1	1.20	-11.3	1,2	0.55	0.28		
0819-569	08 19 48.0	-56 55 54	272.1	-11.4	1.39	-11.5	1,2	1.01	0.67		
0822-52	08 22 24.8	-52 47 22	268.9	-8.8	1.64	-11.7	1,2	0.48	0.23		
0823-500	08 23 57.0	-50 00 48	266.7	-7.0	1.78	-11.8	1,2	5.03	3.10		
1737-575	17 37 13.2	-57 35 45	334.7	-14.1	5.17	-1.9	1,2	1.17	0.60		
1737-590	17 37 54.7	-59 00 14	333.5	-14.9	5.29	-1.9	1,2	0.81	0.39		
1740-517	17 40 28.9	-51 43 20	340.2	-11.6	4.76	-1.6	1,2	4.60	2.95		
1741-532	17 41 13.3	-53 14 53	338.9	-12.5	4.86	-1.6	1,2	0.75	0.37		
1753-509	17 53 59.4	-50 58 18	341.9	-13.1	4.72	-0.5	1,2	0.37	0.24		
1758-494	17 58 19.0	-49 24 59	343.7	-13.0	4.63	-0.1	1,2	0.52	0.44		
1803-509	18 03 36.2	-50 54 00	342.7	-14.4	4.72	0.4	1,2	0.51	0.25		
1806-458	18 06 15.6	-45 53 14	347.5	-12.6	4.45	0.6	1,2	1.18	0.86		
1815-554	18 15 38.6	-55 22 36	339.2	-17.9	5.01	1.4	1,2	1.37	1.31		
1817-64	18 17 25.0	-64 00 05	330.7	-21.2	5.81	1.6	1,2	1.43	0.69		PART OF 18-61
1818-557	18 18 12.0	-55 43 14	339.0	-18.4	5.03	1.7	1,2	0.71	0.38		18-53
1821-58	18 21 22.3	-58 19 15	336.6	-19.7	5.23	1.9	1,2	0.70	0.35		
1823-455	18 23 30.8	-45 34 48	349.1	-15.2	4.43	2.1	1,2	0.56	0.47		
1830-589	18 30 03.2	-58 58 45	336.4	-21.0	5.28	2.7	1,2	0.48	0.29		18-62
1843-607	18 43 16.0	-60 44 10	335.0	-23.1	5.42	3.8	1,2	0.61	0.29		
1845-501	18 45 08.4	-50 08 42	346.0	-20.2	4.64	4.0	1,2	0.64	0.33		
1846-631	18 46 04.0	-63 09 37	332.6	-24.0	5.66	4.1	1,2	0.65	0.24		
1853-534	18 53 01.2	-53 29 04	343.0	-22.4	4.83	4.7	1,2	0.58	0.47		
1853-632	18 53 59.4	-63 17 07	332.7	-24.9	5.66	4.7	1,2	0.51	0.24		
2002-50	20 02 52.2	-50 20 14	348.7	-32.4	4.46	10.3	1,2	0.86	0.53		
2004-479	20 04 18.1	-47 59 35	351.5	-32.4	4.34	10.4	1,2	0.67	0.37		
2005-489	20 05 47.4	-48 58 45	350.4	-32.7	4.38	10.5	1,2	1.06	1.19		
2006-56	20 06 30.3	-56 35 30	341.3	-33.2	4.80	10.6	1,2	0.51	0.10	SO 16M	20-52. EXT. A=1.4 B=3. Z=0.05
2013-454	20 13 42.2	-45 26 01	354.7	-33.7	4.20	11.1	1,2	0.68	0.68		
2016-615	20 16 46.5	-61 34 16	335.2	-34.3	5.11	11.3	1,2	0.63	0.49		
2022-582	20 22 04.8	-58 15 48	339.2	-35.3	4.83	11.7	1,2	0.56	0.32		

1975AuJPA..34...55W

TABLE 1

2700 MHZ SURVEY - SUPPLEMENT FOR DECLINATION ZONE -45 TO -65 DEG

(1)	(2)			(3)			(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)		(12)
Parkes source number	Position (1950) R.A. h	m	s	Dec. °	'	"	Galactic coordinates l °	b °	Annual precession R.A. s		Dec. "	Run	2700 flux den. (Jy)	5000 flux den. (Jy)	Identification		Remarks
2022-484	20	22	33.2	-48	29	47	351.2	-35.5	4.30		11.7	1,2	0.48	0.30			
2025-538	20	25	48.9	-53	49	06	344.6	-36.0	4.54		12.0	1,2	0.55	0.45			
2032-535	20	32	21.5	-53	31	40	344.9	-37.0	4.49		12.4	1,2	0.43	0.25			
2036-577	20	36	05.5	-57	45	48	339.6	-37.2	4.72		12.7	1,2	0.66	0.64			
2041-551	20	41	09.8	-55	06	36	342.8	-38.2	4.53		13.0	1,2	0.66	0.44			
2044-588	20	44	33.3	-58	52	44	338.0	-38.1	4.74		13.2	1,2	0.50	0.31			
2054-581	20	54	47.9	-58	08	10	338.6	-39.5	4.62		13.9	1,2	0.46	0.35			
2055-650	20	55	16.5	-65	01	26	330.0	-37.9	5.14		13.9	1,2	0.47	0.28			OA
2059-64	20	59	18.0	-64	08	43	330.9	-38.6	5.02		14.2	1,2	0.51	0.23			20-62
2105-48	21	05	24.1	-48	58	24	350.3	-42.5	4.13		14.6	1,2	0.90	0.63			
2117-642	21	17	52.5	-64	17	15	329.9	-40.4	4.87		15.3	1,2	0.93	0.56			
2122-555	21	22	40.7	-55	34	05	340.7	-43.9	4.30		15.6	1,2	0.89	0.50			21-52
2123-463	21	23	13.7	-46	18	51	353.5	-45.8	3.95		15.6	1,2	0.85	0.68			
2126-485	21	26	51.5	-48	33	24	350.2	-46.1	4.01		15.8	1,2	0.42	0.20			
2130-53	21	30	46.0	-53	50	01	342.6	-45.5	4.18		16.0	1,2	0.78	0.34	DB	14M	21-54
2134-470	21	34	46.4	-47	00	07	352.1	-47.6	3.92		16.2	1,2	0.90	0.59			
2148-555	21	48	01.0	-55	34	45	339.1	-47.2	4.13		16.9	1,2	0.87	0.41			
2205-636	22	05	11.0	-63	40	34	327.3	-45.3	4.36		17.6	1,2	0.84	0.59			
2207-45	22	07	16.8	-45	57	35	351.7	-53.3	3.72		17.7	1,2	0.76	0.40			
2213-45	22	13	52.1	-45	36	46	351.7	-54.5	3.68		18.0	1,2	1.08	0.56			
2215-508	22	15	10.2	-50	53	44	343.2	-52.8	3.79		18.0	1,2	0.91	0.60			
2218-50	22	18	04.0	-50	33	20	343.4	-53.4	3.77		18.1	1,2	0.76	0.30			22-51. CLOSE TO 2220-50
2220-50	22	20	20.7	-50	32	33	343.2	-53.7	3.75		18.2	1,2	0.68	0.37			CLOSE TO 2218-50
2223-62	22	23	31.9	-62	53	17	326.4	-47.4	4.13		18.3	1,2	0.53	0.27			
2232-488	22	32	12.9	-48	52	05	344.3	-56.2	3.64		18.6	1,2	0.81	0.80			
2252-53	22	52	51.4	-53	01	41	334.8	-56.7	3.58		19.2	1,2	1.66	0.94			22-54