

ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORYFIRST QUARTER 1975

1. Duration The quarter starts at 0800 hours (Eastern Summer Time) on Thursday, 2 January 1975 and finishes at 0800 hours (Eastern Standard Time) on Friday, 28 March 1975. (Good Friday)

2. Format Notes:-
 - (a) Where a non-standard changeover time has been allocated, this is indicated on the program.
 - (b) Monday computer maintenance has been reduced to half a day. The hours 0800 to 1300 are set aside for this purpose, unless otherwise indicated.
 - (c) The hours allocated to the Officer-in-Charge, Parkes have in several instances been changed to accommodate galactic observations, and these are indicated on the program.
 - (d) The hours 0800 to 1300 on all Fridays are as usual, set aside for desk checks and computer maintenance.
 - (e) Unless a change is sought by the observers, computer program development time is provided in the hours set aside for the Officer-in-Charge, Parkes. (See 3. for exceptions)

3. PDP-11 Drive System

Full daytime for three lots of 5 week days has been set aside for development work on the PDP-11 telescope drive system. Since this involves driving the telescope, no observations have been programmed in this time. This down-time and a long string of jobs not needing the autocorrelator have given us a good opportunity to make some hardware and software modifications to it. Hardware modifications and tests will occupy the first two 5-day periods. The third period is given over to development work on the new correlator program. The arrangements on the PDP-9 during this period will be as follows:-

 - (a) G. Moorey has priority in first two 5-day periods. He will only need a small amount of time but the machine should be made available when he needs it. This also applies during the usual 4-hour development slot and where an interruption occurs, extra time

should be given as compensation. Use of the remaining computer time is in the hands of the Operations Manager.

(b) On the third 5-day period, all daytime PDP-9 time excluding maintenance periods have been allocated to A. Hunt for work on the new correlator program.

4. Dish Survey Nine first or second halves have been allocated for dish survey work. Driving requirements during these periods are indicated on the program.

5. SCO-X1 During the period 15 February to 3 March this source will be monitored by an X-ray satellite. Every day during this period when the 5 cm receiver is available, we have allocated approximately one hour per day for monitoring this source.

6. 18 metre Telescope

Days on which the Mark II filter back-end is not required on the 64m dish are marked *. Days when this back-end is on standby for the 64m dish are marked **. 18m observations are possible on both these types of days, but on days marked ** 64m observers may take over the filter back-end if they require it.

7. 18 metre Allocations

13 February → 3 March inclusive	-	Mathewson, Murray, Cleary
15 March → 18 March inclusive	-	reserved for Mathewson, Murray, Cleary (if required)
21 January → 30 January inclusive	-	Kerr, Bowers
11 March → 14 March inclusive	-	reserved for Kerr, Bowers (if required)

Other available time can be reserved with the Program Planning Committee.

8. Accommodation Meals Abbreviations - Unchanged. Persons unfamiliar with these arrangements should consult an earlier program.

9. Comments This quarter's program has been complicated by the need to fit in a number of instrumental jobs and by the need to obtain the best usage of time allocated to galactic observations. Whilst strictly a 'non-galactic' quarter, the bulk of requests submitted were for galactic time, and these have been accommodated in the best manner possible.

172 observing nights were applied for with 85 available. Few people wanted to observe in January. Some could only use a small slot of time in the quarter. It goes without saying that such a situation is difficult to accommodate. The program is largely shaped by receiver availability -

- (a) 5 cm available late in quarter
- (b) 6 cm available for testing late in quarter
- (c) 18 cm unavailable due to the collapse of a paramp late last quarter

and by the new system of refereeing introduced this quarter. Time, where possible, has been allocated to give maximum coverage of the prime objects of interest.

Program Planning Committee

(per R.A. Batchelor)

DATE 1975 MARCH	DAY 08 ^h -13 ^h	13 ^h -24 ^h -08 ^h	Feeds, Focal Plane Requirements Other	Receivers		LO, Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
				Front End	Back End						
Tues 11	O-i-C	408 MHz Southern Survey HASLAM, <u>COOKE</u> , <u>CLEARY</u> WILSON, DAY	73-circular + apex dipole linear and 415 MHz helix with 16 dB Pad	73 MPI RX Liquid nitrogen load	MPI Polarimeter and digital back-end	hp Synth. NIX BCD display box	Sweeper for 408 & 30 MHz 400 MHz counter	PDP-9 MPI digital back-end	LOG 408 DEC 408	6°/m in ZA and 6°/m ME scans	SHIMMINS *
Wed 12	Parkes										*
Thur 13											*
Fri 14	D/c, c/m										*
Sat 15											*
Sun 16											*
Mon 17	c/m										*
Tues 18		**									
Wed 19	O-i-C	Dynamic Spectra of Pulsar scintillations <u>ABLES</u> , <u>ROBERTS</u>	Circ. pol. feed Computer switchable noise source	As above then 335MHz Δf>6.4 MHz	Filters 1, 10, 33, 100 kHz	Schlum Synth. LO hp Synth. for PTU	Counter Hi-sensit- ivity Tektronix CRO	PDP-9 Houston Plotter CRO Camera	Own (JGA)	Will assist in installation	HAMILTON
Thur 20	Parkes										
Fri 21	D/c, c/m										
Sat 22	6 cm Receiver Tests		Absorber 2HE & LHE Cold load beam and polarization switching Noddy tot.pwr line switched line.	Modified 6-l	Auto-correl- ator Filters Continuum	Phase locked LO hp Synth. Schlum Synth.	Sweeper 4-8 GHz 5 GHz wave- meter Ka- band wave meter counters power meters	PDP-9 Plotter Printer	CORLAT LINE LINRED STAKFL NØDDY PØINT		
Sun 23	<u>SINCLAIR</u> , <u>COOKE</u> , <u>BUTLER</u>										
Mon 24	c/m	<u>HALL</u> , <u>PHELPS</u> ,									
Tues 25	O-i-C	<u>HOWARTH</u>									
Wed 26	Parkes	Positions of Southern sources <u>BOLTON</u> , <u>SAVAGE</u> , <u>WRIGHT</u>	Offset ref.	6-c	Continuum	Free-running LO	-	PDP-9	Own	-	FREE
Thur 27											*
END OF FIRST QUARTER											