

ALLOCATION OF TELESCOPE OBSERVING TIME AT A.N.R.A.O., PARKES2nd - 3rd Quarters 1969

1. This period begins with the telescope overhaul on Tuesday 8 April, 1969 and ends at 0800 hours on Monday 21 September, 1969. The following "quarter" will not begin until November.
2. The underlined names refer to the duty astronomer only.
3. The usual accommodation at the Quarters is arranged for the day before observations begin through the Divisional Administrative Section. Any other person visiting ANRAO must obtain permission from the Deputy Director before approaching the Administrative Section.
4. The continuation of observations into the "Day" period is verboten. Note that Mondays and Fridays 0800-1400 hours is entirely allocated to Computer maintenance. It is expected that Tuesday to Thursday 0800-1400 hours will be programmed each month for programme development.
5. Abbreviations in use:

C/M	: Computer maintenance (Butler, Shimmins).
g/c	: Gears check.
d/c	: Desk check (Gill, Shimmins).
number	: Wavelength e.g. 11 means λ 11 cm.
X-Yp	: X-Y plotter.
C/R1, 3p	: Chart recorder, one, 3 pens.
F/S	: Frequency synthesizer.
F/C	: Frequency counter.
PDP9	: Use of Computer <u>during observations.</u>
T/P & P	: Teleprinter and punch (ASR-33) - <u>alternative to PDP9.</u>
Cs	: Caesium Frequency Standard
OH- l p.1700	: OH-line paramp at frequency \sim 1700 MHz.
HI- l p.	: HI-line paramp at frequency \sim 1420 MHz.
μ m p.	: Micromega paramp at frequency \sim 1420 MHz.
1, 10, 100 kHz	: 64 filters of bandwidth either 1, 10 or 100 kHz.
C.R.O.	: Cathode Ray Oscilloscope.
20, 73 Interf. E-W.	: The 20 cm and 73 cm interferometer on the East-West tracks.
E.E.D.	: Electrical Engineering Department, University of Sydney.
l.b.i.	: Long base line interferometry.

(R.X. McGee)
Secretary.Programme Planning Committee

8th April, 1969.

ALLOCATION OF TELESCOPE OBSERVING TIME AT A.N.R.A.O., PARKES

2nd - 3rd Quarters 1969

Date 1969	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	EQUIPMENT REQUIRED
APRIL				
Tue 8		TELESCOPE OVERHAUL		
Wed 9				
Thu 10				
Fri 11				
Sat 12				
Sun 13				
Mon 14				
Tue 15				
Wed 16				
Thu 17				
Fri 18		<div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: auto;"> Zenith Position Sky Obs. (as telescope available) STANKEVICH </div>		11
Sat 19				1C/R
Sun 20				
Mon 21	C/M	Galaxies, interacting galaxies		11, o/s reference feed.
Tue 22	g/c			RIDL, X-Yp, C/R1, 2F/S.
Wed 23		WHITEOAK		ASR-33, RIDL interface.
Thu 24		Nth. Goobang-Owens Valley l.b.i.		Own 6.
Fri 25	C/M, d/c			Own tape recorders
Sat 26		JAUNCEY, COOPER, MOOREY, (BATCHELOR)		
Sun 27		Positions 4C Sources $\delta +5^{\circ}$ to $+20^{\circ}$		11, dual horn.
Mon 28	C/M			PDP9, T/P & P, C/R 1.
Tue 29	g/c			
Wed 30		BOLTON, WILLS, (MANCHESTER)		
MAY				
Thu 1				
Fri 2	C/M, d/c			
Sat 3				
* Sun 4		Cosmic background, Moon calibrator		50, EED 75,
* Mon 5	C/M			C/R1.
* Tue 6	g/c	STANKEVICH		EED2 dipole feed.
* Wed 7		Pulsars		20, 75.
* Thu 8		ABLES, KOMESAROFF, COOKE,		PDP9, RIDL, T/P & P, X-Yp.
* Fri 9	C/M, d/c	MORRIS		C/R1, F/S, Cs, CRO.
* Sat 10		Absolute calibrating source, background		20, 50.
* Sun 11		pulsars.		RIDL, X-Yp, C/R1, F/S.
* Mon 12	C/M	WIELEBINSKI, O'SULLIVAN, JONES (0152)		Cs.

(* - Goobang Horn will be observing at 408 MHz).

Date 1969	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	EQUIPMENT REQUIRED
MAY				
Tue 13	g/c	Nth. Goobang-Owens Valley l.b.i.		Own 6 (or 18 ?)
Wed 14				Own tape recorders.
Thu 15		JAUNCEY, COOPER , MOOREY. (R.B./A)		
Fri 16	C/M, d/c	CH ₂ O line observations		6 to be tuned & restored
Sat 17				by observers. PDP9, RIDL,
Sun 18		GARDNER, WHITEOAK		T/P & P, X-Yp, C/R1, F/S, Cs,
Mon 19	C/M			F/C.
Tue 20	g/c	Accurate Positions $\delta +27^\circ$ to -33°		11 Dual beam.
Wed 21		MERKELIJN		PDP9
Thu 22		(Some time for Time variations - HARRIS)		
Fri 23	C/M, d/c	Survey southern sky.		11 Dual beam.
Sat 24				PDP9 1 day.
Sun 25		SHIMMINS, MERKELIJN		C/R1.
Mon 26	C/M	Galactic Survey $l^{II} 288^\circ$ to 260°		11. 4 $\frac{1}{2}$ Horn, cold load.
Tue 27	g/c	$l^{II} 2^\circ$		PDP9.
Wed 28		Cooke		T/P & P. C/R1.
Thu 29		THOMAS, DAY, WARNE		
Fri 30	C/M, d/c			
Sat 31		Occultation Sgr B2 OH1720		OH- ℓ p. 1700.
JUNE				
Sun 1				PDP9, RIDL, C/R2.
Mon 2	C/M	ROBINSON, GOSS, MANCHESTER		H.P.F/S, Cs, CRO1, 1, 10kHz.
Tue 3	g/c	HI line absorption, galactic sources		HI- ℓ p.
Wed 4				1, 10, 100 kHz.
Thu 5		RADHAKRISHNAN, MURRAY		PDP9, RIDL, X-Yp, C/R1.
Fri 6	C/M, d/c			F/S, Cs.
Sat 7		Confusion Limit WALL, COOKE		11 2 Horn RIDL T/P & P,
Sun 8		4C Sources $b^{II} \pm 4^\circ$		X-Yp.
Mon 9	C/M	WALL, SHIMMINS		
Tue 10	g/c	Mars opposition, E & ^u / _v galaxies.		11, 2 beam feed.
* Wed 11		STANKEVICH		PDP9, C/R. 1.
* Thu 12		Red Variable Stars SERKOWSKI, MILNE		11.
* Fri 13	C/M, d/c	Planetary Nebulae		11, 2 horn.
* Sat 14				PDP9, RIDL, X-Yp, C/R1.
* Sun 15		ALLER, MILNE		F/S.
* Mon 16	C/M			
* Tue 17	g/c			
* Wed 18				
* Thu 19		Flux Density Variations HARRIS, MILNE		11, 2 horn. PDP9, C/R1.

(* - Short term S variations 1230-1400 hrs. HARRIS 11).

Date 1969	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	EQUIPMENT REQUIRED
JUNE				
Fri 20	C/M,d/c	Pulsars		20, 75.
Sat 21				PDP9, RIDL, T/P & P, X-Yp.
Sun 22				C/R1, F/S, Cs, CRO.
Mon 23	C/M	ABLES, <u>KOMESAROFF</u> , COOKE		
Tue 24	g/c	MORRIS		
Wed 25				
Thu 26		Polarization Interferometer -		20-Interf. E-W.
Fri 27	C/M,d/c	Absolute Phase		PDP9, F/S, Cs.
Sat 28				
Sun 29		SCHWARZ, <u>COLE</u>		
Mon 30	C/M			
JULY				
Tue 1	g/c	Interferometry 0° to -33° δ		20, 73 Interf. E-W.
Wed 2	NASA	<u>COLE</u> , MILNE		PDP9, C/R1.
Thu 3		Low Frequency Source Interferometry		Own + 20 Interf. E-W.
Fri 4	C/M,d/c			PDP9 not available
Sat 5				during observations.
Sun 6		HAMILTON, McCULLOCH, HAYNES		
Mon 7	C/M	<u>COLE</u>		
Tue 8	g/c			
Wed 9				
Thu 10				
Fri 11	C/M,d/c	APOLLO XI Moon landing.		NASA 13 cm. Paramp.
Sat 12	Cole. Co.	Installation equipment, testing.		
Sun 13		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> If possible, 7 days of Pulsar observations to be fitted in. Equipment as 20/6/69. </div>		
Mon 14	C/M			
Tue 15	g/c			
Wed 16		<u>BOLTON</u>		
Thu 17		First possible arrival at Moon.		
Fri 18	C/M,d/c			
Sat 19		<div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: 0 auto;"> Search for C₁₃ <u>BOWEN</u>, MILNE </div>		C-2, PDP9, RIDL, F/C, F/S, Cs, CRO1, C/R1, X-Yp, 1, 10, 100 kHz.
Sun 20				
Mon 21	C/M			
Tue 22	g/c			
Wed 23				
Thu 24		Last possible arrival at Moon (25th)		
Fri 25	C/M,d/c	Occultation Sgr B ₂ OH 1665,7		OH- 2 p. 1650.
Sat 26				PDP9, RIDL, C/R2, H.PF/S, Cs.
Sun 27		<u>ROBINSON</u> , GOSS		CRO.1. 1, 10 kHz.
Mon 28	C/M	O ¹⁸ H in Sagittarius A. 1637, 1639.		OH- 2 p. 1600. C/R1.
Tue 29	g/c			PDP9, RIDL, T/P & P, X-Yp.
Wed 30		<u>GARDNER</u> , McGEE, SINCLAIR		F/S2, Cs. CRO1, F/C, 1, 10, 100 kHz.

Date 1969	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	EQUIPMENT REQUIRED
JULY				
Thu 31		Polarization		11, Hybrid 4".
AUGUST				
Fri 1	C/M,d/c			PDP9, RIDL, X-Yp, C/R1.
Sat 2				F/S, ASR33 + Tonk Inter- face.
Sun 3				
Mon 4	C/M	WHITEOAK, <u>GARDNER</u> , MORRIS		
Tue 5	g/c			
Wed 6				
Thu 7		Variation Flux Density HARRIS, <u>MILNE</u>		11, 2 horn, PDP9, C/R1.
Fri 8	C/M,d/c	Close Binary Stars		11, 2 horn.
Sat 9		BIGG, MEADE		PDP9, RIDL, T/P & P, C/R1. Int.
Sun 10				
Mon 11	C/M	White Dwarfs and S.N.R's.		11, 200.
Tue 12	g/c			PDP9, RIDL, T/P & P, X-Yp.
Wed 13		<u>MORRIS</u> , SCHWARZ		C/R1, F/S.
Thu 14		Installation HI-line interferometer.		2 μ mp. Interf. N-S.
* Fri 15	C/M,d/c			1, 10, 100 kHz.
* Sat 16		BROOKS, MURRAY, <u>COOPER</u>		PDP9, RIDL, T/P & P.
* Sun 17		SCHWARZ		X-Yp, C/R1, F/S, Cs.
* Mon 18	C/M	-----		
* Tue 19	g/c	RADHAKRISHNAN, GOSS		
* Wed 20				
* Thu 21				
Fri 22	C/M,d/c			
Sat 23		Polarization Interferometry		2 μ mp, Interf. N-S.
Sun 24		- Absolute Phase		PDP9, X-Yp, F/S, Cs.
Mon 25	C/M			
Tue 26	g/c	SCHWARZ, MORRIS, <u>WHITEOAK</u>		
Wed 27		Pulsar H-line absorption		μ mp.
Thu 28				1, 10, 100 kHz.
Fri 29	C/M,d/c			PDP9, RIDL, X-Yp.
Sat 30		<u>RADHAKRISHNAN</u> , COOKE		C/R1, F/S, Cs.
Sun 31				
SEPT.				
Mon 1	C/M			

(* - Apollo N to Moon if July failure - new programme would be issued).

Date 1969	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	EQUIPMENT REQUIRED
SEPT.				
Tue 2	g/c	H ₂ ⁺ Search, HI Zeeman Effect.		/Imp. 1, 10, 100 kHz. PDP9, RIDL, X-Yp. C/R1, F/S, Cs.
Wed 3				
Thu 4				
Fri 5	C/M, d/c			
Sat 6				
Sun 7				
Mon 8	C/M			
Tue 9	g/c			
Wed 10				
Thu 11				
Fri 12	C/M, d/c	Installation 9 cm Receiver CH-line search. 2nd Harmonics OH-Lines		9-ℓ. 1, 10, 100 kHz. PDP9, RIDL, T/P & P. X-Yp, C/R1, F/S.
Sat 13				
Sun 14				
Mon 15	C/M			
Tue 16	g/c			
Wed 17				
Thu 18				
		GARDNER, SINCLAIR		
Fri 19	C/m, d/c	HI redshift to ~50 cms.		Special Front end 100 kHz filters. PDP9, RIDL, X-Yp.
Sat 20				
Sun 21				
Mon 22				
		BOLTON		
		CLOSE DOWN TILL NOVEMBER.		

C.S.I.R.O. - DIVISION OF RADIOPHYSICS

MODIFICATION TO APOLLO XI OBSERVATIONS PROGRAMME

Date 1969	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	Equipment Required
JULY Tue 1 Wed 2 Thu 3	g/c	Installation and Initial Testing for Apollo XI Observations NASA		Own equipment
Fri 4 Sat 5 Sun 6 Mon 7 Tue 8 Wed 9 Thu 10 Fri 11	C/M, d/c C/M g/c C/M, d/c	Low Frequency Source Interferometry HAMILTON, McCULLOCH, HAYNES, <u>COLE</u>		Own + 20 Interf. E-W. PDP9 not available during observations - possible inter- ference.
Sat 12 Sun 13 Mon 14 Tue 15	 C/M g/c	Re-installation and Final Testing for Apollo XI Observations NASA		Own equipment
Wed 16 Thu 17 Fri 18 Sat 19 Sun 20 Mon 21 Tue 22 Wed 23 Thu 24	 C/M, d/c C/M g/c	4 Days reserved from launch to landing on Moon in period 16-25 Radiophysics Lab. observations as possible ← First possible arrival at Moon <u>BOLTON</u> Search for C ¹³ <u>BOWEN, BOLTON, MILNE</u>		C-l, PDP9, RIDL F/C, F/S, Cs, CRO1, CR1, X-Yp 1, 10, 100 kHz

(R. X. McGee)

Secretary

Programme Planning Committee

2nd June 1969