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

ALLOCATION OF TELESCOPE OBSERVING TIME AT

A.N.R.A.O., PARKES

4th Quarter 1968

- 1. The Quarter begins on Saturday, 21st September, and ends at 0800 hrs. E.S.T. on Tuesday, 24th December, 1968.
- 2. The telescope overhaul is programmed for the period Tuesday, 22nd October, to Wednesday, 30th October inclusive.
- 3. The underlined name indicates the duty astronomer only.
- 4. The usual accommodation at the Quarters is arranged for the day before observations begin through the Radiophysics Division's Administration Section.

Please note that for any other person visiting A. N. R. A. O., permission to stay at the Quarters must be obtained from the Deputy Director before approaching the Administration Section.

- 5. Daytime observations (0800-1400 hrs. EST) have not been programmed. N.B. Written permission from the Deputy Director must be presented to Mr. A.J. Shimmins at least one week in advance of any proposed occasional daytime observation.
- 6. The present policy of the Program Planning Committee includes the following points:-
 - (a) To give everyone a fair go.
 - (b) To try and keep particular receivers on the telescope for as long as possible in the interests of efficient observations.
 - (c) Not to pass judgment on the scientific merit of proposed programs.
- 7. Approximately 160 nights were applied for in the 4th Quarter of about 80 working nights. Some proposed programs had to be entirely omitted. A measure of priority will apply in the first quarter of 1969 to those observers who had low average time in 1968.

ALLOCATION OF TELESCOPE OBSERVING TIME

AT A.N.R.A.O., PARKES

Fourth Quarter 1968

Date 8h - 14h 14h 74h FIRST HALF SECOND HALF Required					6
Sat. 21	1				Equipment Required
Mon.23	1		Maintananaa Su		
Mon23 Tue. 24 g/c OH Emission & Absorption Pol. Feed. Wed.25 $180^{\circ} \leqslant \ell^{\Pi} \leqslant 64^{\circ}$ Can rotate Thu. 26 1665 , 1667 , MHz No other feeds Fri. 27 d/c ROBINSON, GOSS, MANCHESTER 1, 10 Filters. Sat. 28 ROBINSON, GOSS, MANCHESTER No L-band Osc. PDP-9. PDP-9. RIDL, X-Y p. 1 Rec. (2 pen) 1 Rec. (2 pen) H. P. Synth. Cs Std. CRO 1 CRO 1 Sat. 5 Sun. 6 Mon. 7 RADHAKRISHNAN 75, 200, 375 Tue. 8 g/c PULSAR OBSERVATIONS 75, 200, 375 KOMESAROFF, COOKE, MORRIS 75, 200, 375 10, 100 filters PDP-9 RIDL PROL 10, 100 filters Thu. 10 Extra-galactic sources HI feed. Sun. 13 Search for H_2 + RIDL Wed. 16 RADHAKRISHNAN, MURRAY, WHITTLE X-Yp Wed. 16 Thu. 17 RADHAKRISHNAN, MURRAY, WHITTLE X-Yp Sat. 19 Son. 20 No. L-band Osc.					
Tue 24 g/c OH Emission & Absorption Pol. Feed. Wed.25 180° ≤ L³ ≤ 64° Can rotate Thu. 26 1665, 1667, MHz OH-L 1650. Fri. 27 d/c ROBINSON, GOSS, MANCHESTER No L-band Osc. Sun. 29 (SINCLAIR, SMART) No L-band Osc. Mon. 30 OCT PDP-9. RIDL, X-Y p. Tue. 1 g/c RIDL, X-Y p. 1 Rec. (2 pen) H. P. Synth. Cs Std. CRO 1 Sat. 5 Sun. 6 CRO 1 CS Std. Mon. 7 Tue. 8 g/c PULSAR OBSERVATIONS 75, 200, 375 Wed. 9 KOMESAROFF, COOKE, MORRIS 10, 100 filters PDP-9, RIDL PDP-9, RIDL Fri. 11 d/c HI Absorption HI feed. Fri. 11 d/c Extra-galactic sources MK. II Backend Sun. 13 Search for H ₂ + T/P & P, X-Y p Wed. 16 Thu. 17 RADHAKRISHNAN, MURRAY, WHITTLE C. R.O. T/P & P, X-Y p 1 Ch. Rec. Fried, Synth.<			PUTTOCK, IADBDI		
Tuc. 24 g/c Is0° ≤ L ^{II} ≤ 64° Can rotate Thu. 26 1665, 1667, MHz OH-L 1650. Fri. 27 d/c ROBINSON, GOSS, MANCHESTER No L-band Osc. Sat. 28 (SINCLAIR, SMART) No L-band Osc. Mon. 30 OCT. PDP-9. CThu. 3 RIDL, X-Y p. 1 Rec. (2 pen) H. P. Synth. Cs Std. CS St. 5 Sun. 6 CRO 1 Mon. 7 Med. 9 KOMESAROFF, COOKE, MORRIS 75, 200, 375 Thu. 10 RADHAKRISHNAN This property of the pro	.		OII Emigric	n & Abgorntion	Pol. Feed.
Thu. 26		g/c			
Thu. 26 Fri. 27 d/c COH € 1650. Sat. 28 ROBINSON, GOSS, MANCHESTER 1,10 Filters. Sun. 29 (SINCLAIR, SMART) No L-band Osc. Mon. 30 OCT. PDP-9. OCT. RIDL, X-Y p. 1 Rec. (2 pen) Tue. 1 d/c CS Std. Sat. 5 Sun. 6 CRO 1 Mon. 7 Some and the state of the st	Wed.25		180° ≤ ℓ	$\frac{11}{2} \leqslant 64^{\circ}$	
Sat. 28	Thu. 26		1665, 160	67, MHz	1 -
Sat. 28	Fri. 27	d/c			
Sun. 29	Sat. 28		ROBINSON, GOSS,	MANCHESTER	
Mon. 30 OCT. Tue. 1 g/c RIDL, X-Y p. 1 Rec. (2 pen) H.P. Synth. Cs. Std. CRO 1 Sat. 5 Sun. 6 Mon. 7 Tue. 8 g/c PULSAR OBSERVATIONS 75, 200, 375 Yed. 9 KOMESAROFF, COOKE, MORRIS PDP-9, RIDL 2 Rec Fri. 11 d/c HI Absorption HI feed. HI par. Sat. 12 Extra-galactic sources Sun. 13 Search for H ₂ + RADHAKRISHNAN PDP-9 RIDL T/P & P. X-Yp 1 Ch. Rec. Freq. Synth. C.R.O. 1, 10, 37. No. L-band OSc. Sat. 19 Sun. 20 Sun. 20	Sun. 29		(SINCLAIR, S	MART)	
Tue. 1 g/c 1 Rec. (2 pen) H. P. Synth. Cs Std. CRO 1 Sat. 5 Sun. 6 Mon. 7 3 feeds 75, 200, 375 Wed. 9 KOMESAROFF, COOKE, MORRIS 10, 100 filters PDP-9, RIDL 2 Rec Fri. 11 d/c HI Absorption HI feed. HI par. Sat. 12 Extra-galactic sources Mk. II Backend PDP-9 RIDL Sun. 13 Search for H ₂ + RADHAKRISHNAN, MURRAY, WHITTLE T/P & P, X-Yp 1 Ch. Rec. Freq. Synth. Wed. 16 Thu. 17 Fri. 18 d/c Sat. 19 Sun. 20 Sun. 20 Sun. 20 Sun. 20 Sun. 20 Sun. 20 Sun. 20 Thu. 17 Fri. 18 d/c Sun. 20 Sun. 20 Thu. 18 Cs Std. CRO 1 H. P. Synth. Cs Std. CRO 1 H. P. Synth. Cs Std. CRO 1 HI feeds HI par. Mk. II Backend PDP-9 RDDL T/P & P, X-Yp 1 Ch. Rec. Freq. Synth. C. R. O. 1, 10, 37. No L-band Osc. Osc. Thu. 19 Sun. 20 Thu. 19 Sun. 20 Thu. 10 Sun. 20	Mon.30				
Thu. 3	Tue. 1	g/c			
Fri. 4 d/c Sat. 5 Sun. 6 Mon. 7 Tue. 8 g/c PULSAR OBSERVATIONS Thu. 10 RADHAKRISHNAN Fri. 11 d/c Sat. 12 Sun. 13 Mon. 14 Tue. 15 g/c Wed. 16 Thu. 17 Fri. 18 d/c Sat. 19 Sun. 20 Cs Std. CRO 1 A feeds To, 200, 375 To, 100, 100 filters PDP-9 RIDL PDP-9 RIDL CRO MK. II Backend PDP-9 RIDL T/P & P, X-Y P 1 Ch. Rec. Freq. Synth. C. R. O. 1, 10, 37. No L-band Osc.	Wed 2				
Sat. 5 Sun. 6 Mon. 7 Tue. 8 g/c PULSAR OBSERVATIONS 75, 200, 375 10, 100 filters PDP-9, RIDL 2 Rec	Thu. 3				
Sat. 5 Sun. 6 Mon. 7 Tue. 8 g/c PULSAR OBSERVATIONS 3 feeds Wed. 9 KOMESAROFF, COOKE, MORRIS 10, 100 filters PDP-9, RIDL 2 Rec Fri.11 d/c HI Absorption HI feed. Fri.12 Extra-galactic sources Mk. II Backend PDP-9 Sun. 13 Search for H ₂ + RIDL Mon.14 T/P & P, X-Yp Tue.15 g/c RADHAKRISHNAN, MURRAY, WHITTLE T/P & P, Wed.16 Freq. Synth. C. R. O. Thu.17 C. R. O. 1, 10, 37. Fri. 18 d/c Osc.	Fri. 4	d/c			
Mon. 7 Tue. 8 g/c PULSAR OBSERVATIONS 75, 200, 375 Wed. 9 KOMESAROFF, COOKE, MORRIS 10, 100 filters Thu.10 RADHAKRISHNAN 10, 100 filters PDP-9, RIDL 2 Rec Fri.11 d/c HI Absorption HI feed. Sat. 12 Extra-galactic sources Mk. II Backend Sun. 13 Search for H ₂ + RIDL Mon.14 T/P & P, X-Y P I Ch. Rec. Freq. Synth. C.R.O. Thu.17 C.R.O. 1, 10, 37. Fri. 18 d/c No L-band Sat. 19 Osc.	Sat. 5				CRO 1
Tue. 8 g/c PULSAR OBSERVATIONS Wed. 9 KOMESAROFF, COOKE, MORRIS Thu.10 RADHAKRISHNAN Fri. 11 d/c HI Absorption Sat. 12 Extra-galactic sources Sun. 13 Search for H ₂ + Mon. 14 Tue. 15 g/c RADHAKRISHNAN, MURRAY, WHITTLE Wed. 16 Thu. 17 Fri. 18 d/c Sat. 19 Sun. 20 FULSAR OBSERVATIONS 75, 200, 375 10, 100 filters PDP-9, RIDL 2 Rec HI feed. HI par. Mk. II Backend PDP-9 RIDL T/P & P, X-Y p 1 Ch. Rec. Freq. Synth. C. R. O. 1, 10, 37. No L-band Osc.	Sun. 6				
Tue. 8 g/c PULSAR OBSERVATIONS 75, 200, 375 Wed. 9 KOMESAROFF, COOKE, MORRIS 10, 100 filters PDP-9, RIDL Thu.10 RADHAKRISHNAN HI feed. Fri.11 d/c HI Absorption HI feed. Sat. 12 Extra-galactic sources Mk. II Backend PDP-9 Sun. 13 Search for H ₂ + RIDL T/P & P, X-Y P 1 Ch. Rec. Wed.16 Freq. Synth. C. R. O. Thu.17 C. R. O. 1, 10, 37. No L-band Osc.	Mon. 7				3 feeds
Thu.10 RADHAKRISHNAN PDP-9, RIDL 2 Rec	Tue. 8	g/c			75, 200, 375
Fri.11 d/c	Wed. 9	·	KOMESAROFF,	COOKE, MORRIS	
Sat. 12 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu. 17 Fri. 18 Sat. 19 Sun. 20 HI par. Mk. II Backend PDP-9 RIDL T/P & P, X-Yp 1 Ch. Rec. Freq. Synth. C. R. O. 1, 10, 37. No L-band Osc.	Thu.10	,	RADHAR	KRISHNAN	2 Rec
Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu. 17 Fri. 18 Sat. 19 Sun. 20 Extra-galactic sources Search for H ₂ + RADHAKRISHNAN, MURRAY, WHITTLE Extra-galactic sources Search for H ₂ + RADHAKRISHNAN, MURRAY, WHITTLE RADHAKRISHNAN, MURRAY, WHITTLE Extra-galactic sources Mk. II Backend PDP-9 RIDL T/P & P, X-Y p 1 Ch. Rec. Freq. Synth. C. R. O. 1, 10, 37. No L-band Osc.	Fri.11	d/c	HI Ahs	orption	
Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu. 17 Fri. 18 Sun. 20 Search for H ₂ + RADHAKRISHNAN, MURRAY, WHITTLE C. R. O. 1, 10, 37. No L-band Osc.	Sat. 12				1 -
Mon.14 Tue.15 g/c Wed.16 Thu.17 Fri.18 d/c Sat. 19 Sun. 20 RADHAKRISHNAN, MURRAY, WHITTLE RADHAKRISHNAN, MURRAY, WHITTLE RADHAKRISHNAN, MURRAY, WHITTLE T/P & P, X-Y p 1 Ch. Rec. Freq. Synth. C. R.O. 1, 10, 37. No L-band Osc.	Sun. 13		9		
Tue.15 g/c Wed.16 Thu.17 Fri. 18 d/c Sat. 19 Sun. 20 1 Ch. Rec. Freq. Synth. C. R. O. 1, 10, 37. No L-band Osc.	Mon.14			a	1
Wed 16 Thu.17 Fri. 18 d/c Sat. 19 Sun. 20	Tue.15	g/c	RADHAKRISHNAN,	MURRAY, WHITTLE	
Thu.17 Fri. 18 d/c Sat. 19 Sun. 20 C. R. O. 1, 10, 37. No L-band Osc.	Wed.16				
Fri. 18 d/c No L-band Osc. Sat. 19 Sun. 20	Thu.17				C.R.O.
Sat. 19 Sun. 20					1
Mon 21	Sun. 20				
TATATION	Mon.21				

	8 ^h - 14 ^h	14 ^h - 24 ^h		0 ^h -	g ^h	Equipment
Date 1968	8 - 14 DAY	FIRST HALI	4	SECONI	-	Required
OCT. Mon.22						
Tue.23						
Wed 24		TELES				
Fri. 25						
Sat. 26	•					
Sun. 27						
Mon.28						
Tue.29		Orientation	PDP-9 -	Whiteoak, N	Morris, Hill	
Wed30				Gardı	ner -	
Thu. 31		Tino	Interferor	netry Tests		Interferometer
NOV. Fri. 1	d/c	Line	interior or	ifetry rests		20
Sat. 2	-					Mk. II Backend
Sun. 3		RADHAKRISH	<u>NAN</u> , MC	ORRIS, COL	E, SCHWARZ	1,10,100 KHz
Mon. 4			(MURRA	Y)		PDP-9
Tue. 5	g/c					RIDL, T/P&P
Wed. 6						X-Y p.
Thu. 7						1 Ch. Rec.
Fri. 8	d/c					Synth.
Sat. 9						
Sun.10						
Mon.11						
Tue.12	g/c					
Wed.13		-				
Thu.14	1	ОН Е	Emission :	and Absorptic	on	Pol. feed.
Fri. 15				2 MHz $\leq 64^{\circ}$		Can rotate. No other.
Sat. 16		OH-£ 1600				
Sun. 17		1,10 filters.				
Mon.18		ROBINSO	<u>v</u> , goss,	MANCHEST	. LA	PDP-9, RIDL,
Tue.19		(;	SINCLAIR	, SMART)		X-Yp. 1 Ch. Rec.
Wed 20		0.1	20	04	0.0	Cs Std. I CRO
Thu.21	<u> </u>		30		(
Fri. 22 Sat. 23		PULSAR Observations		e Stars in Nebula	PULSAR Observations	3 feeds. 75,200,375.
Sat. 23 Sun. 24						10,100 filters.
Mon 25		KOMESAROFF		LEE	MORRIS	PDP9, RIDL. 2 Ch. Rec.
Tue.26		COOKE	HIG	GINS	RADHA- KRISHNAN	
rue.40	5/0				<u> </u>	<u> </u>

Date 1968	8 ^h - 14 ^h DAY	14 ^h - 24 ^h FIRST HALF	0 ^h - 8 ^h SECOND HALF	Equipment Required		
NOV. Wed. 27		Planetary	Dual			
Thu. 28 Fri. 29	d/c	ALLER, BUTLER,	PDP-9			
Sat. 30 DEC. Sun. 1		Survey ± 4° Dec. WALL, SHI	Dual. Paral. No other. 11			
Mon. 2	,	***************************************		Dual 11		
Tue. 3	0	Survey Southern	Sky, 11 cm	90°rot. No other. PDP9.		
Wed. 4 Thu. 5	,	SHIMMINS, WALL,	T/P&P, 1 Ch. Rec.			
Fri. 6		Galactic Survey, 11 cm	. DAY, WALL, GOSS.	$4\frac{1}{2}$, 11, PDP9.		
Sat. 7 Sun. 8 Mon. 9		KOMESAROFF,	oservations COOKE, MORRIS KRISHNAN	11 + requirements of 22/11/68		
Tue.10	g/c	1	xtra-Galactic Sources KRISHNAN	1700 OH-L + other as		
Thu.12				for 23/9/68		
Fri. 13	d/c	OH Emission	and Absorption			
Sat. 14		1720 MHz				
Sun. 15		180° <	$\mathcal{L}^{\mathrm{II}} \leqslant 64^{\mathrm{O}}$			
Mon 16		DODINGON GOO				
Tue.17		g/c <u>ROBINSON</u> , GOSS, MANCHESTER				
Wed.18		(SINCLAIR, SMART)				
Thu.19	4/0					
Fri. 20 Sat. 21	d/c	Dalas Challe	tion 150 400 marr	Own feeds &		
Sun. 22			tics 150, 408 MHz	recs.		
Mon.23		WII	ELEBINSKI	1 Ch. Rec. RIDL. Synth.		
Tue.24				2022 23 (3) 12027		
${\tt Wed.}25$		J				
Thu.26						
Fri.27						
Sat. 28		CHRISTMA	S SHUTDOWN			
Sun. 29						
Mon.30						
Tue.31 JAN. Wed. 1						

M. Coolse

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

26th September 1968

MEMORANDUM TO: A.N.R.A.O. Observers, 4th Quarter 1968.

1. The PDP-9 Computer

This instrument has already proved to be a most important addition to the ANRAO facilities. Hardware activities under A.J. Shimmins require full priority in the "Day" session (08-14 hrs). However, if the PDP-9 is to become something more than an \$80,000 paper punch, extensive software experimentation and testing must be carried out over the next few months. Mr. E.R. Hill and his colleagues need some periods of several hours per day or night.

It is not possible to detect the real time requirements of PDP-9 from the 4th Quarter applications. Some people have requested full use of the PDP-9 but it is extremely doubtful whether they have suitable programmes to operate the machine.

In the interests of all, observers are requested to advise the Programme Planning Committee (Room 68A) before Wednesday, 2nd October 1968, what periods of time during their observations they will make available to Mr. Hill. He is able to operate while observations are in progress.

2. Typographical Error.

The days on the top of page 2 are obviously Tue, Wed and Thu, Oct. 22, 23 and 24.

3. Owing to a meeting of the Astronomical Society of Australia on 4-6 December, Messrs. Shimmins and Day and colleagues have kindly agreed to a re-arrangement of the programme to enable Professor Aller to attend. The programme will now read as follows:-