

Volume XX, No 6 (November / December) 2011

The Mornington Peninsula Astronomical Society (formerly the Astronomical Society of Frankston) was founded in 1969 with the aim of fostering the study and understanding of Astronomy by amateurs and promoting the hobby of amateur Astronomy to the general community at all levels.

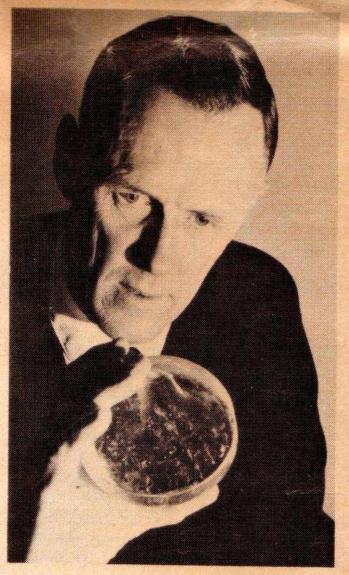
The Society holds a focused general meeting each month for the exchange of ideas and information. Regular public and private observing nights are arranged to observe currently available celestial objects and phenomena. In addition, the society encourages the services of its members for educational presentations and observing nights for schools and community groups.



This is a special edition of the Mornington Peninsula Astronomical Society News letter in memory of Bruce Tregaskis (1927-2008) Bruce Tregaskis was a past president of the Frankston Astronomical Society & the Astronomical Society of Victoria (1971-1972, 1976) also member of Latrobe valley Astronomical Society.



BRUCE IS UP THERE WITH THE STARS...



The giant leap for mankind that Neil Armstrong took when he stepped onto the lunar surface last month was, in terms of astronomy, rather like a man strolling from his hallway onto the patio.

For while Apollo 11 was speeding across the quarter-million miles to the moon, Bruce Tregaskis and his friends were studying star systems 100 million light years away.

Bruce, Electrical Engineering Superintendent, Works Division, Richmond, is one of the State's leading amateur astronomers.

Director of the Auroral Section, Astronomical Society of Victoria, he has built several telescopes, including one with a lens of 12 inches which is on loan to the Latrobe Valley Astronomical Society.

At the moment Bruce is building a 4-inch telescope. The hardest part of the work is of course making the lens (that's what he is holding in the picture) which can take about 50 hours of shaping, grinding and polishing.

Bruce has recently been involved in work for Professor H. D. Cole, of the School of Physical Sciences, La Trobe University. He has helped to organise, collect and participate in observations of the aurora australis.

**Bruce is up there with the stars.** This news paper article is from 1969, were Bruce's 12 inch is mentioned, the same telescope which is now at the Briars Observatory. Also mentioned is the making of Bruce's 4 inch mirror which he fitted to his travel scope, the same telescope he took on many of his solar eclipse expeditions, schools viewing and ASF/MPAS public nights. This 4 inch telescope was also fitted with a equatorial platform with the electronics built in a cake tin.

When Bruce pasts away in November 2008, we had a call from Bruce's wife, "Betty". Asking if we wanted his telescopes. We said, yes please. On arrived we were lead to a room filled with astronomy books, magazines, boxes of papers and old photos. We also found his 4 inch and 6 inch Newtonian telescopes in the garage. Betty said, there should be another large telescope here someway in the garage. At the time we could only see mounds of junk Bruce had collected over the years.

Betty, then took us to the back corner of her garden where we were confronted by a large concrete lump of a mount. Used to carry he 12 inch F8 Newtonian telescope.

We asked our selves, want have we got our selves in to here. I lent against it to see if it was solid, it did not move at all. The equatorial axis was made from a old rusty car differential. It looked more like a sculpture than a telescope mount. I could see it had not been used for a while, as the trees had grown up over it & had blocked out most of the sky. We took photos of all the parts, making sure to get photos of all the rusty bolts.

We gathered up books, magazines and the smaller 4 and 6 inch telescopes. Then politely said, thank you and then left, scratching our heads. Probably thinking that we would not return.



I loaded everything I could think of to make the job easier, crow bars, chain blocks, trolleys, planks of wood, round logs, bits of round steel tube, rope & chains in the back of the ute. The first job was to remove the counter weight, moss and all. Lucky it's round and we could just roll it to the ute.





After a few days of thinking about the old telescope. I decided we should at least move the telescope to the Briars.

The biggest problem is the mount being located at the back of the property, were there was no car access & the ground looked very soft, nothing solid to move it on. We would need to brake it down in to 5 parts, but the bolts holding it together looked very rusty.

Betty told us, Bruce & her move the telescope from the Latrobe valley in a little box trailer, when they moved to Mt Eliza.

So we made the phone call. Betty sounded glad that we were coming to remove the telescope.



We then remove the differential. Amazingly all the bolts come undone bar one which snapped off. We put the diff in the back of the ute. We then found the telescope tube hidden under a pile of wood in the back of Bruce's garage. We cleared a path through the junk before carrying the telescope tube to the ute. A bit more hunting around and we found the 12 inch mirror in a cupboard box. We had a quick glance at its coating, not too bad, usable! Time to unbolt the smaller north pier, we were surprised that the bolts came undone. We put this in the ute and decided by then we had a load and headed to the Briars to off load.

Only the 2 heaviest parts to go now. We unbolted the large south pier and carefully rocked it back and forth, placing planks of wood underneath to get it high enough, to get over the bolt that had been cast in to the concrete. This pier was made from a concrete pipe filled with concrete.





We joined 2 hand trolleys together, so we could move this heavy south pier over the soft ground to the ute. Were it sat for a while.

We turned our attention to moving the base. Again it was a case of jacking it high enough to get some rollers underneath. Then moving it inch by inch with a crowbar, moving the rollers in the front, in the direction we were heading.

We soon had it behind the ute. Getting it in the ute would be another thing. Luck the ford ute comes with 2 strong anchor point in the back, were we attached a chain and hooked up a 1 ton chain block. Attached another piece of chain to the base, then lent a plank of wood on the back of the ute and started to haul away. The base moved slowly up the plank in to the ute, with Vivienne Lowe doing most of the work.





Almost there!!! We had to move the chain to the other end of the base for the last move.

We cleared a spot in the back of the ute for the south pier. Laid out some old curtains, then carefully tipped it over and slide the south pier in beside the base. We through the troller & tools in, then shut the tail gate on the ute.

#### All gone!!!

We looked at were the mount once sit, thinking glade that's over.

Then headed back to the Briars to unloaded. The south pier slide out easy, then we roped it to the wall in the big shed, as we did not want it to fall on anyone.

Now that base!!!! How will we get that out of the ute? Well I backed the ute up to a tree and hooked up the chain block, the jammed the wooden



plank under the front edge and just drove off. Miracles sometime happen the base slide out the some way it went in, with the wooded plank saving the tail gate.

I think, that concrete base sat there in the field for about a year before I got around to putting the mount together. In April 2011 MPAS was hosting Vastroc and I thought it would be nice if Bruce's 12 inch telescope was working. First we moved the base on to the new concrete slab behind the lower shed. Then we chiselled off the flaking paint on all the parts, assembled the mount with the help of a engine crane and painted the whole thing white. The telescope tube is made from cardboard and had gone soft in a few places, we just put more paint on in those places hoping this would hold it all together. We painted the inside flat black after cleaning out all the cobwebs. Then put glossy black paint on the outside of the tube near the eyepiece, a nice touch as this is what Bruce had done originally to help keep ones eyes dark adaptored. We also made some black lettering about the telescope tube specifications. The primary mirror being 320mm in diameter, probably meant it was made from 12 1/2 inch port hole glass, as this would give you a 12 inch window once mounted. The original tube mounting bolts were very rusty, so I made new bolts from stainless steel. We then cleaned the secondary mirror & finder scope, before refitting the 12 1/2 inch primary mirror. By this time the tube was getting too heavy for one person to lift. So we used the engine crane to lift the tube on to the mount. We then had to adjust the position of the count weight, without dropping it on any feet. Now all back together is was an impressive sight.

A small group of MPAS members took turns in climbing the ladder to look at various objects. The planets looked surprisingly sharp, but most deep sky objects looked a little dull, due to the long focal length at 2600 mm. But still a very memorable night stepping back in time, as this telescope is around 50 years old.

While Vastroc was on and for about 2 weeks after, we left the telescope outside. Just covering it with a large trampoline when on in uses.

FL2600

F0

Photo at right - Now Bruce's 12 1/2 inch telescope is stored in the observatory, as the concrete slab it sat on, it the base for the soon to be built MPAS observatory.

Photo below - Bruce's mount on the observatory slab.





Below Left is a drawing of Jupiter, Bruce did on the 5th April 1968, using the 12 1/2 inch F8 telescope mentioned in the story above. At the time located at the Latrobe valley Astronomical Society in Yallourn.

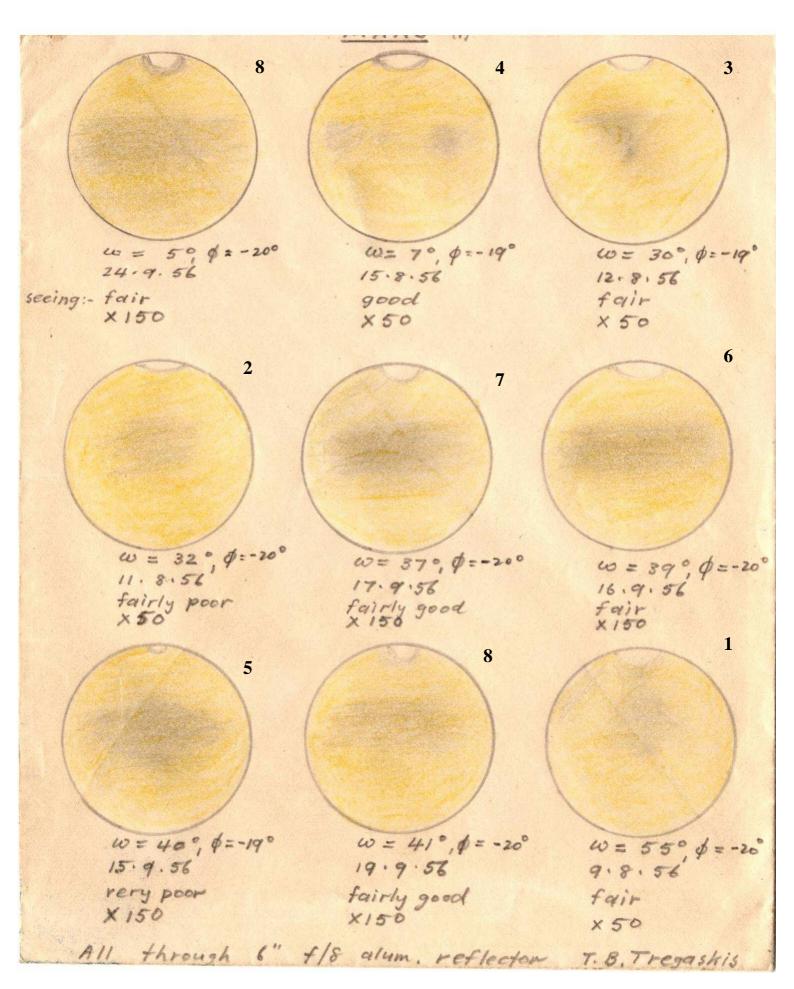
Below Right is 2 drawing of Mars, Bruce did on the 8th & 15th March 1963, using the 12 1/2 inch F8 telescope.

Mars Fri. 8, 3, 63 20 k25 m EAST. 12/3" × 200. Smoke haze, E preeze almost full mron, poor seeing. Morkings raque. N " white N polar cay p Syrtis Major Sinus Moridiani Sinus Sabaeus Long. of CM = 334:1 Tilt = +12° (N Howards Bound ASV Lunar & Planetary Section NOTES Red That not redlars 21.35 EAST 15.3 63 aly slightly finde & alle a Roclow ring . Squatorial 122" x200, Clean calm mild moon riving. Fair seeing yone yellowick - confirmed N White DATA: time 2255 date 5.4.68 seeing (1-10) 8 temp. 55°F. approx Llight harry cloud E yellowish TELESCOPE:size124f-ratio8typetypeReflector magnification 200 eyepiece Erfle S OBSERVER: name T. S. Treggskis. location Evens Dbsonutory, Yallam 3838 Vic. JUPITER long, of CM = 287.8

Bruce's 6 inch F8 Newtonian telescope has a octagon tube made from wood. The simple mount is made from water pipe fittings & concrete counter weight (very popular design in the 1950's) mounted on tubular steel with a base made from a heavy old car fly wheel filled with concrete, making it hard to move. Bruce left the mount permanently polar aligned outside in his garden & just attached the telescope tube when needed. I painted the mount white & added 3 wheels, this meant we could leave the telescope tube permanently attached. Then we could easily move the whole telescope around. This was the telescope Bruce used the most as the 12 1/2 inch telescope took at least 2 people to assemble. Bruce did most of his variable star measurements with the 6 inch & did a series of mars drawings in 1956, also drawings of Jupiter in 1958 with many observational notes, can be see on the next pages.



Below is a sequence of Mars drawings at opposition in 1956, by Bruce Tregaskis.

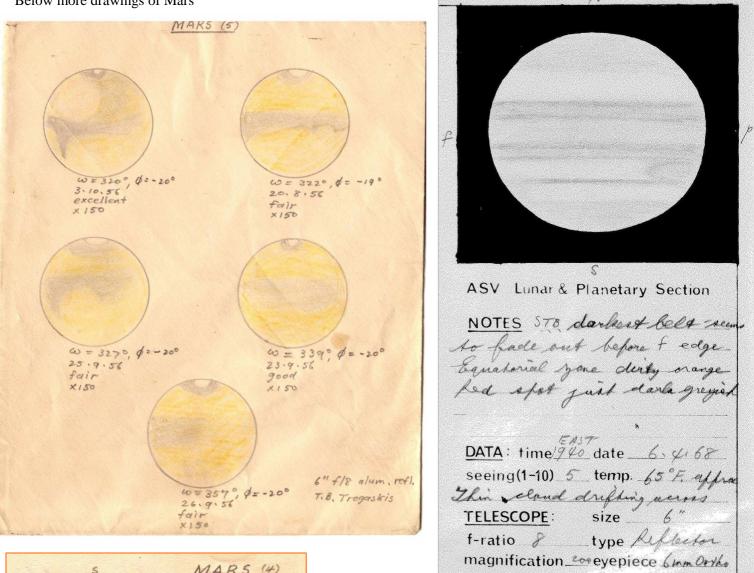


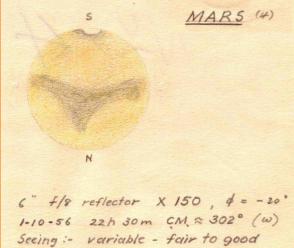
Below is a sequence of Mars drawings at opposition in 1956, by Bruce Tregaskis.



Below right is a drawing of Jupiter, Bruce did on the following night, using his 6 inch F8 Newtonian telescope from his home at Morwell in 1968.

Below more drawings of Mars





Observer :- B. Tregaskis, Blackburn

diam. = 22"



OBSERVER: name T. B. Tregeski

JUPITER Normal Norwell,

#### Bruce liked to record all his observation and publish his finders. An examples of Bruce's work below - Observations of Jupiter in 1958 by Bruce Tregaskis.



A 6" %/9 aluminised reflector was used. For 57 control to sugust 15th, an epopiece cimilar to a Ramsdon, and giving a mifloation of 140, was used. For the remaining 15 shottens, a more cost orthographic egopiece, giving a power of 200, was employed.

So transits were timed, although the times of the whole (1) exotence were noted. A grid was later drawn up on transing paper so that this could be placed over the skatches to estimate the approximate longitudes of markings. However this method is considered vory inferior to transit determinations, except perhaps then markings are near the control moridian.

Secing conditions were nated on the various nights as follower-

		- mark		
escollent		1	a1sh	
8008	-	7		
fair	-	18		
2002	-	12		
bad	-	10		
speet bad	-	1	-	

a few other observations were made but the seeing was too bad be enable any details to be mean.

Persiptions of the main features noticed in each region follow --

South rolar Rogics (1.7.1.) This was generally drams excline than the morth polar region (2.7.1.), (See Figs. 1 - 12). It was noted on a number of securious that this region was darker and bluer than the R.T.S. 's other datails were noticed, apart from the mormal effect of the region darkening towards the pole.

on June 1912, it had reached 34° (See also Figs. 3 and 4). It was not seen after this.

- 3 -

The appearance of this spot was slightly different from the one providely described, in that it was always seen more like an open clongated bay in the southern edge of the C.T.P. The conthern border of the spot was never closed in with a dark streak, as was the provides spot, but the curving in of the presentories at each end gave the illusion of an elliptical spot. Its average length was 30° in longitude.

Prom the five observations, a rotation period of 9h55s lis 1 hts was carived. The figure agrees well with previously published data.

A third waite not may have been present, but the two observations on 20th May, and 24th June only gave vague indications of something at 188' and 130' longitude respectively.

These two or three white mote are almost certaily the once which have been seen by other observers since 1939 - 1940, and which have been well described by Peek in "The Planet Jupiter". Rade noise from Jupiter clas seens related to these spats. One of these spats is visible near the R.S. on published photographs of Jupiter taken through the 200" tolescope on October 24th, 1952. (see Peek - "The Planet Jupiter" or Richardson - "Exploring Ears" etc.)

Ref Spot. This was first seen clearly on Wards Sist, when at a system 2 longitude of about 510°. On April 2nd (Fig.1) it was noted as having a pale pink colour. It was seen clearly on ten occasions, the last definite observation being on June 1st, when at a longitude of about 520° (See Figs. 5, 6 and 10). On June 18 th, only a hany patch was wieible where the R.S. should have been, but the seeing was bad. However the spot was not seen definitely again, although most of the latter observations were of other parts of the planct.

From the drawings, the average length of the 3.8. was found to be 30° of longitude. Its apparent with was about half its length. The rotation period was estimated to be 9h55a45s  $\pm$  50, some seven seconds longer than the past average.

In all the observations, the 3.8. appeared to be attached to the 5 edge of the 5.9.8.

S.S. and S.S. Transmate Balts. These were indistinguishable from the S.P.R.

. 2

South Temperate Bolt (S.T.M.). This was seen quite clearly, usually as a fairly this bolt, right through until Suly Joth, when it was recorded as very indistinct. Thereafter, it was only seen occasionally, or recorded as doubtfal. It was not shown on eight drawings, but seeing conditions on these mights were mostly bad. (See Figs. 1 to 12).

In the south edge of the S.T.S. were observed two, and possibly three, long white oval spots. The first one was noticed on april 2nd, when it was centred on a System 2 beneitade of approximately 510°. (See Fig. 1). It was then overtailing the great red oppt (2.1.) and its following edge had almost reached the longitude of the centre of the A.C. The mortherm edge of the white opt was approximately centred on the S.T.S., but the contherm edge seemed to bulge out alightly beyond the s. edge of the S.T.F. It was contained on the 4. side within a thin, dark filment, which conctines appeared continuous and mostines broken.

By April 28th, when this spot and the R.S. were both again visible on the disc together, the white spot had moved well past the R.S., the former bring centred on about 265°, and the R.S. on about 314° (System 2). On May 13th, the difference was greater, the figures being 243° and 316° (See Fig. 8).

After that, this spot was not definitely seen again. although it may have been visible on May 20th (Fig. 9), and August 4th. It had been seen quite definitely on four nights.

The average length of this spat, free measurements of five cravings, was 42 of longitude. The average period of rotation was found by plotting the longitudes against dates, and came to the unusually short period of 95 5/4 2/6. This is abeat half a simule eborter than provinely published figures available for this region, but it is not folt that a great deal of weight should be placed on this figure, due to the paulity and asthed of observations.

The second white cost seen in this belt was first observed on April 8th at a longitude of 66' (System 2), (see Fig. 2) It also decreased in longitude until on the fifth and last observation on Juse 19th, it had reached  $34^{\circ}$  (See also Figs. 3 5 4). It was not seen after this.

- 4 -

Each Repairdal Balt (3,3,2.) Refere June, this bolt (or at least rather faint parts of it) was seen only intersitiently. (See Figs. 1 - 9), but frus June 19th covaries, the belt was always visible, and in fact towards the end of the apparition the belt often appeared just as prominent as the d.S.R., being broad and durk. (See Figs. 11 and 12).

Turing the early observations the belt constinues appeared as two rather faint this components ("ig.1), and constinues as a single streak, and on Ayri 27th and 29th the pesition where the single belt divided to form the two components, was noticed at a longitude of about 190° (System 1) or 35° (System 2) (Fig.6).

When these early markings were plotted (together with the non-visibility of the belt) against System 3 longitude and date. It was found that a definite pattern energed. It seemed that the belt wasconly visible over a small section of the planet at first (in March), but that the belt gradually longthened over a period of about three seaths, woll the two each not up by about the end of May. It then completely girdled the planet.

However it was found that this original small longitude, section of bolt was decreasing very rapidly in longitude, from a central longitude of about 130° early in March to 0° (dystem 2) early in May, and 200° by May 20th.

The markings were therefore plotted again against dystem 1 longitude and date, shen it was found that the shift in longitude was now much here, being from a contral longitude of 250° early in March to 170° by May let. This part an average rotations period of about 9h49a50s. The precedug edge of the belt appeared to be rotating in about 9h49a10s and the following edge in approximately 9h50a50s, but insufficient observations were obtained, to emable unything but a very rough determination to be made.

It also seemed as if a disturbance had taken place in the belt, perhaps earl, in April, as a dark patch was observed at about 50° (System 2) on April 10th (Fig. 3), shen an other signs of the belt were in evidence. The section where the belt split was also near this longitude (as mentioned above) on 37th and 37th april. On May 9th and 11th (Figs. 6 and 7), a sigle distorted belt was observed, the twisted region scome again being close to the same

#### Mornington Peninsula Astronomical Society

longitude (in System 2). This region was not observed again until Jame 1st, when a single bultus (eff. 10). This second to be the S component, but is was noticed that where it parsed the red syst, it was highed any from the spat, appearing like the 2.5. hollow, only further from the 3.5. If this was the name distarbanee, it had apparently decreased in longitude to 350° (system 2), in the ness time and had about reached the longitude of the 3.5.

- 5 -

It is not known for cortain what happoned to the disturbance after this, for there were few observations of this region for me time. However disturbances were noted at 260° on june 18th, 40° on Angust 19th, and 350° on Neptonber 8th and 19th (all System 2). If these were all in fast connected with the previous disturbance, it indicates that this active region accelerated with time, decreasing its rotation period from one close to that of System 2 to one approaching that of System 1. Sourcer this is largely excesse.

North Securical Rolt (U.T.F.) This can practically always the most provinces marking on the planet and was always visible. Buring the earlier observations, it was usually seen sements thinner than in later observations, but its shape and width varied considerably. Remetimes it seemed to taper, and at other times it appeared undataling, and guite often it had spate or streaks accounted with it.

On one occasion it exceed to have a small section of a northern component. This was seen on spril loth, centred on a System 2 longitude of 58° (Pig. 3).

The most prominent dark opet coon an the whole planet was observed on the morthern edge of this belt on about nine occasions. This was first noticed on the 27th March as a loop of fairly dark matter controd on a longitude of approximately 170° (dystem 2). It then occupied about 17° of longitude. On 6th april, the S.C.S. appeared to kink morthwards at about the ence locatized.

On May 5th, a prominent dark prosentory was seen at this longitude again, preceding a long bay on the borth edge of the belt (Fig. 5). By May 20th it appeared more as a definite ciliptical shaped most (Fig. 9).

It was more prominent, and pointed at each end, on Fund S2nd and Angust 4th, 9th and 21st (Fig. 11). It still compled about 15' to 20' of longitude and served practically staticuary in system 2.

- 6

Coptember 2nd was the last observation of it, when its uppearance was similar. This region of the planet may only observed once more (on October 1st), when the seeing was had and the spot, if still there; was not noticed. Its retation time was found to be physicle I do and it was with that this was the most assurate rotational period determined during the sportion.

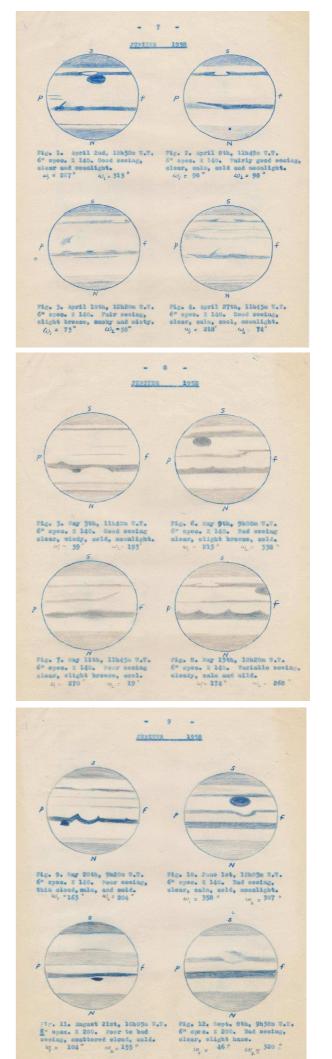
A few other markings were noticed on this edge of the . belt at thes, but nothing as president as this perticular spot.

Suring the first 5% measure up to 15th June, a maker of dark projections, hamps or streams were noticed on the couth edge of this belt. The streaks mina may is a south following direction from the belt. Practically all there markings were seen between longitudes 140° and 200° (System 1) and the testemay for the markings to be drifting towards decreasing longitudes seened apparent (see Figs. 1, 4, 8 and 9). However, it was not possible to positively menticy markings on different dates, area after plotting against longitude and date, so me definite relation periods could be derived.

The only other unward marking noticed in this bolt was a diagonal white streak which out corose the bolt from the south, proceeding to the morth following side, finishing at a System 7 longitude of 95°. It was only news once, an April 5th (Fig. 2)

N. and N.M. Temperate Belig. The north temperate belt was never as conspicuous as the 3.7.3. was early is the apportion. The S. and M.S. temperate belts, generally blacked in with the shading of the S.F.M., but on a masher of occasions a definite darbor belt was motiond, approvally in the position of the S.F.T. On two or three occasions, two dark belts were dramain this region, but no other scales were ever noticed. (See Figs. 1, 4, 5 and 9).

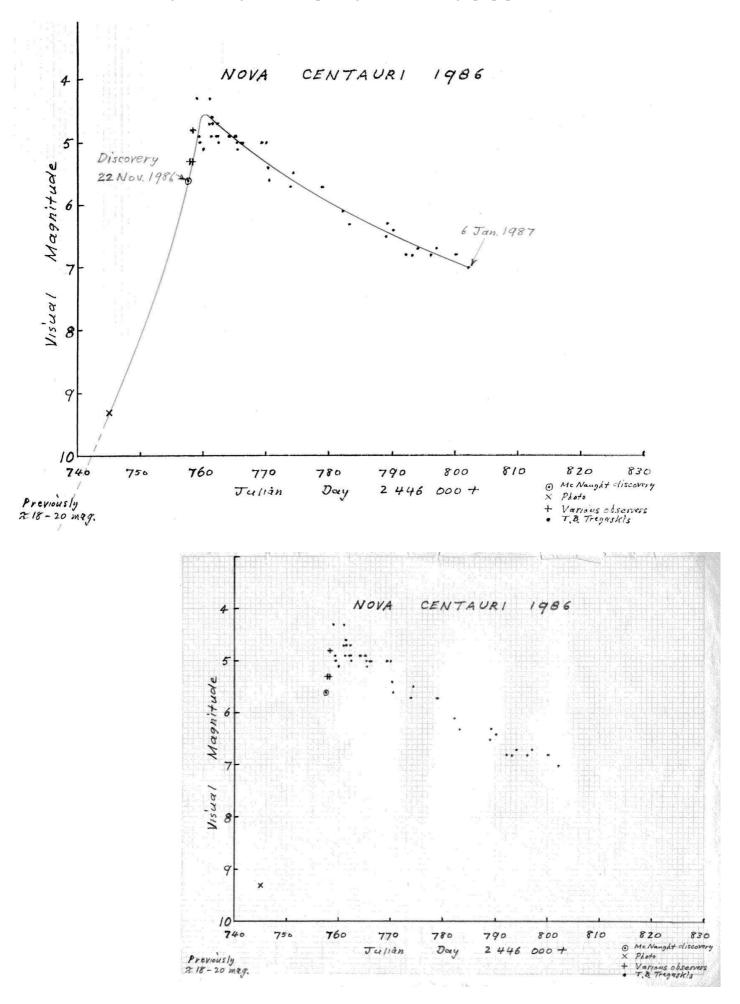
Horth reisr and on (S.P.R.) This was generally seen larger faister and of a warmer tone than the S.P.R., although the greater size was probably due to the blonding in of the S. and S.S. temperate balts. A derivating tempede the pole was usually motiond. Datalities 5, and its chades were seen over this region on april 6th (Fig.2).

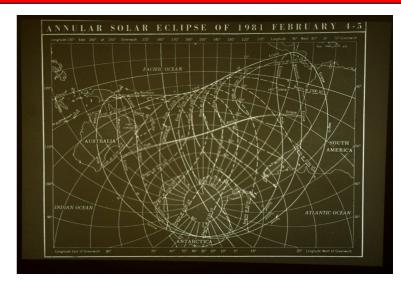


Bruce spent most of his spare time observed variable stars & recording there magnitude (brightness) sending the information to the RASNZ Variable star section. Up to recently professional astronomers relied heavily on amateur to make observation for them over long periods of time, which would have otherwise tied up telescopes for years. But today the professional astronomers have automated telescope in space orbiting the earth, doing these tasks producing more data then we can use. Making these types of observations redundant. Below is an example from one of Bruce's log books.

1959 March & April											
Stor	am 1 Date (1959)	the second s	J.D. 2436	Inst.	Estimate	Ded. Mag.	SKy	Class			
		00 10	669.0	T1. 64 X	74 (1) V (3) 82	7.6	1	1			
	11	23 50	671.0	TI- 64×	74(1) V(1) 82	7.8	1	1			
R Cen.	Mar. 12	22 25	640.9	F1- 6X	(5(1) V(3)73	6.7	2(H.)	2			
1	. 14	00 io	642.0	F1.6×	V = 65	6.5	1.	1			
- <i>µ</i>		23 44	646.0	F1- 6x	V= 65	6.5	2(M)	2			
145	Apr. 4	23 17	664.0	F1 - 61	V = 64	6.4	1	1.			
н	" 9	23 56	669.0	FI-6X	V= 65	6.5	1	1			
//	11 11	23 55	671.0	F1- 6x	V = 64	6.4	1.	1			
\$ Aps.	Mar. 12	22 58	641.0	T1-64 ×	103(1) V(6) 94	10.2	1	1			
		23 45	642.0	T1-64X	94(4)V(1)103	10.1	1	1			
ч .	Apr. 9	2342	669.0	T1-64×	V=103	10.3	-1	1			
ii.	. 12	00 04	671.0	T1-64X	V=103	10.3	1	1			
RS Sco.	. 12	00 20	671.0	T1-64×	88(1) 1/5)94	8.9	2(4.)	2			
and a second		L	Constant of	L		<u> </u>		<u> </u>			
TIA	TI signifies 6" +18 aluminused reflector (equatorial).										
FI	FI " 13; 6x refractor (hand held).										
T.V.	T.V. under "aby" signifies interference from T.V. antenna.										
When observing R Car. on allar. 11 + 13, 83 affeared											
brighter Ahan 80, therefore these two stors were											
not	not used for comparison. B. Tregastais.										

Below is a chart Bruce made of a Nova in the constellation Centauri discovered on 22nd November 1986, Bruce made accurate measurement of its magnitude (brightness) and plotting it over time on graph paper.





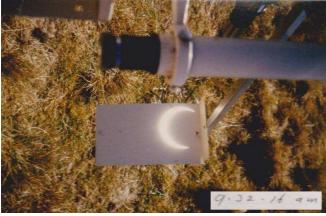




Mornington Peninsula Astronomical Society

Bruce 4 inch telescope travelled with him on many of his solar eclipse expeditions. Photo right show Bruce recording the times at various points at which things were happening, with the time signal playing on the short wave radio in the foreground.



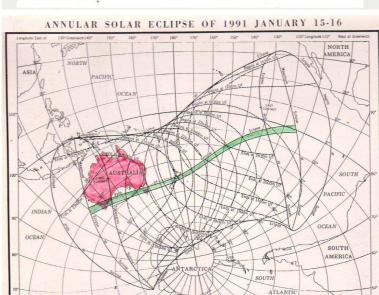








Bruce Tregaskis with tape recorder, radio (for VNG) and 4" flb reflector showing annular solor eclipsie from Walkers Lookout, Flinders Island. 16-1-91



Above - Path of the eclipse (Green)

Left - Photos of annular solar eclipse

Below - Bruce's equipment list

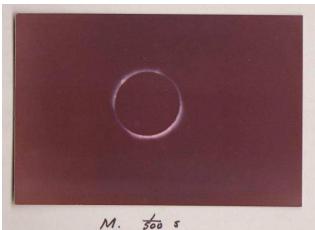
EQUIPMENT TO TAKE TO AN ECLIPSE SITE

Telescope, mounting, eyepieces and accessories. Solar filters and/or projection equipment. Cameras, telephoto lenses, tripods, cable releases and films. Any required attachment screws, universal joints or adaptors (e.g., camera to telescope or tripod). Short wave radio to pick up VNG on 5, 10 or 15 MHz. Tape recorder (may be combined with radio). Watch or clock (may require alarm). White sheet or card (to search for shadow bands before and after totality). Notebook, pen and pencil: Torch (may be required to set camera during totality). Stool or folding chair. Tools. String, rope, wire, plastic or masking tape, Tarzan's Grip, etc. (for last minute temporary repairs or modifications). Any other special items.



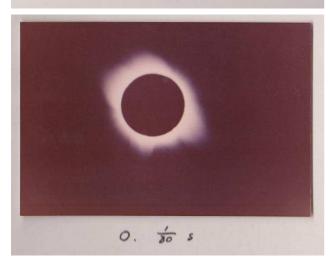
OCEAN

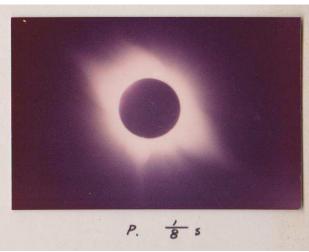
Bruce 4 inch telescope at solar eclipse expeditions in Papua New Guinea 23rd November 1984. See SLR camera piggy backed on his telescope.













Q. Local Hula children observing partially eclipsed Sun at Hood Point, Hula, P.N.G. through Bruce Tregeskis' 4" f/6 reflector, Nikon camera with 400 mm telephoto lens and 2x teleconverter, mounted on top, used to obtain photos M.N.O. P&R, at f/12.6, on 3M 1000 slide film.

**Below - From ASF news letter February 1985** 

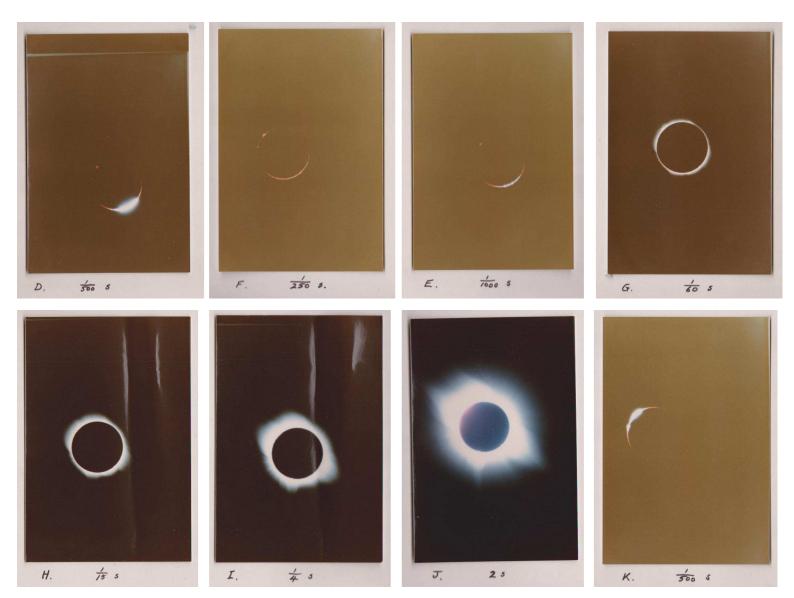
#### Society News

Bruce Tregaskis provided members will first hand accounts of his, now numerous, observations of total solar eclipses at the Society's January meeting. Bruce's first experience of a "total solar" was in Western Australia in 1974 and since then he has been well and truly bitten by the eclipse bug, observing not only the 1976 total solar in Victoria, but visiting a site near Winnipeg in Canada to observe the 1979 eclipse in bitter cold and surrounded by snow.

Most recently he travelled to Fapua New Guinea to observe the November 1984 eclipse from a beach area near Fort Moresby and obtained excellent views and photographs of this event. Bruce's talk was illustrated by numerous slides, not only of the eclipses themselves, but of a variety of local sights and scenes at the different eclipse sites. In addition, Bruce displayed charts showing paths for future eclipses, to the end of the century and beyond, some of which he is already planning to visit.



Mornington Peninsula Astronomical Society





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More photo from the PNG solar eclipse



















































Mornington Peninsula Astronomical Society

# General Society Information

## Office bearers of the Mornington Peninsula Astronomical Society

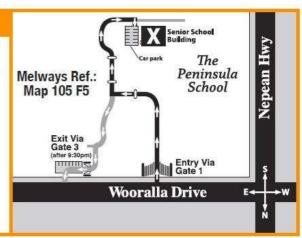
President: Peter Lowe Vice President: Brett Bajada Committee: Ian Sullivan, Trevor Hand, David Rolfe, Bob Heale, Fiona Murray, Greg Walton. Phone Contact: Peter Skilton - 0419 253 252

Secretary: Peter Skilton Treasurer: Marty Rudd Public Officer: Rhonda Sawosz Web Master: Steven Mohr Scorpius Editor: Brett Bajada

#### **General Meetings**

Meeting Venue: The Peninsula School, Wooralla Drive, Mt. Eliza, (Melways map 105/F5) in the Senior School at 8pm, on the 3rd Wednesday of each month, except December. Entry is via the main gates or Gate 3, off Wooralla Drive. Exit is via Gate 3 Only after 9:30pm (see map).

For additional details: Phone: 0419 253 252 Mail: P.O. Box 596, Frankston 3199, Victoria, Australia. Internet: http://www.mpas.asn.au email: welcome@mpas.asn.au



## Loan Equipment.

The Society has a variety of telescopes including an 8-inch reflector, 80mm refractor and binoculars, all available for loan.

committee Contact a member to arrange the loan of equipment. The Society also has books and videos for loan from it's library, made available during General Meetings.

#### Contributions to Scorpius

If you would like to submit an article or units

email to scorpius@mpas.asn.au .

Any astronomical events that questions with other members. you have witnessed or tales you contributions and any feedback you Yahoo groups to join E-Scorpius. wish to make about the newsletter are welcome.

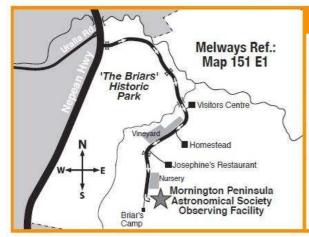
## E-Scorpius Newsgroup

to Scorpius, then please send your you will be kept up to date with the group the better.

submission to M.P.A.S., P.O. Box latest M.P.A.S. news and event 596, Frankston 3199, or you can now information as well as being able to join in discussions and ask

To join, go to: http:// would like to tell, things you have groups.yahoo.com/group/ for sale (eg: telescopes, eyepieces, e-scorpius and sign up to Yahoo etc.) then please send them in. All groups. You require to sign up to

Once you have signed up at Yahoo groups, email welcome@ mpas.asn.au saying that you want - to join E-Scorpius and you will be f you would like to submit an M.P.A.S. has an online news- added to the E-Scorpius list. Come article or written contribution Mgroup called E-Scorpius. Here on, join up. The more people in the



#### Viewing Nights - Members Only

Any night, at The Briars, Nepean Hwy, Mt. Martha, starting at dusk. Members visiting The Briars for the first time must contact Greg Walton on either 9773 0098 or 0415 172 503 if they need help in getting to the site. Upon arrival at the site, remember to sign the attendance book in the observatory building to verify that the mobile is turned on.

For additional details: http://www.mpas.asn.au