

SOCIETY NEWS

NEW CAR PARKING FOR 1995

2 List of events for 1995

School parents day 8-7-95
Astro Camp 13-8-95
FAS Convention 30-9-95
Second open weekend 27,28,29th October?
Christmas Meal 13 or 20-12-95?

3 Return of Unused Observatory Keys

If any member has a set of observatory keys and no longer needs to use them, could you please return them to Roy Gooding. The keys will be reissued to members who have expressed an interest in starting new evening meetings. A set of keys costs the society about £12.00, and there are over 15 sets of observatory keys.

4 The Next Committee Meeting

The next committee meeting will be held on saturday 9th september, at the observatory. Any member is welcome to attend. The starting time will be about 19.30

NIGHT SKY

All times GMT

SUN

Rises approximately between 03.40 to 04.20 Sets approximately between 20.15 to 20.00

MERCURY Mercury will be in the morning sky until superior conjunction on the 28th, when it moves into the evening sky.

<u>VENUS</u> Venus will be rising about an hour before the sun this month, and will be in the bright morning twilight sky. Mag -3.9

MARS Mars will be setting at about 22.20 at the end of the month. Mag. 1.3

JUPITER Jupiter will be setting at about 01.00 in mid month. Jupiter is presently in Scorpius. Mag. -2.4.

<u>SATURN</u> Saturn will be rising at about 22.00 in mid month. Mag. 1.0.

URANUS Uranus will be at opposition on the 21st. Mag. 5.6

Neptune Neptune will be at opposition on the 17th. Mag. 7.9

MOON

R.Gooding









5th

12 th

19 th

27 th

OCCULTATIONS DURING JULY 1995

The table lists disappearance times of stars of magnitude 7.5 or brighter which are occulted during the month. Only events taking place under favourable circumstances are listed. The data relates to Orwell Park Observatory, and timings, etc. will differ slightly for nearby locations.

Date	Time (UT)	Mag	Lunar Phase	Sun Alt (°)	Star Alt (°)	Star (D=double)
Sun 09 Jul	21:55:29	5.8	0.90+	-11	18	ZC2401 (D)
Tue 11 Jul	21:22:52	7.4	0.99+	-8	14	ZC2733

James Appleton

SAGITTA

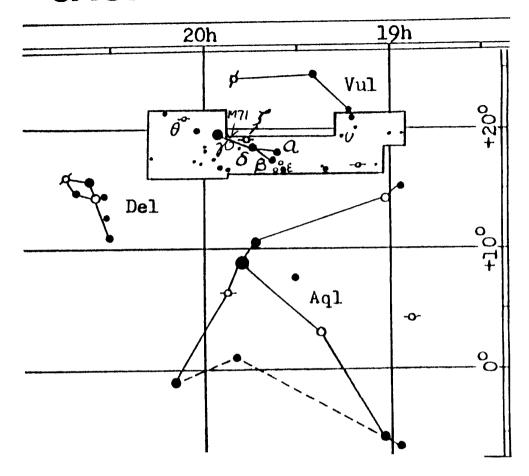
This area has a number of good telescopic objects and beautiful star fields for binoculars. In Sagitta, outstanding double and multiple stars are; Epsilon (ξ), a wide optical double; HN84, which has contrasting colours; and Theta (θ), a triple star of which the primary and tertiary stars are optically aligned.

The main attraction in Sagitta is the loose globular cluster M71 (NGC 6838). It is easy to locate about halfway between Gamma (γ) and Delta (δ) Sagitta. This was once classed as an open cluster, but now that interstellar absorption has been recognised, we realise there must be many faint stars which "fill in "the group. A small telescope will in fact show it as a scattering of stars with only a nebulous suspicion of richness. A 10 inch or larger aperture with medium to high powers will show the cluster as a richly resolved ball with many scattered brighter points around the field. The distance is about 18.000 light-years.IC 4997 is a tiny planetary nebula, fairly bright, and making a 1 arcminute double object with a yellowish star nearby. High powers are needed to see the small disk of the nebula.

The eclipsing binary U Sagitta is an outstanding example of its type. The star is just west of the bottom star of the "Coathanger" asterism. It has a magnitude range of from 6.4 to 9.0 with steep light curves. The eclipses come every 3 days 9 hours and 8 minutes, and the minima occur for 1 hour and 40 minutes. The drop and brightening at the end of the eclipse is dramatic and can be seen over a period of a few minutes.

Double Stars

Pos.	1 m 2	D	<u>d</u> "	PA	No.
191016	6.7-8.0	С	0.7	137	B139
	5.6-5.8				
	4.9-8.8				
200720	8.7-6.3	þ	11.6	328	0



3 Close, green and blue, short period binary of only 22 yr. Separation changes rapidly from 0.8 to 0.1 in less than a decade.

by J.Walsh.

A	N	А	N	K	E	Z	Y	Х	М	Т	V	0	W	R	P
Т	E	Y	0	P	М	R	М	N	А	М	A	М	К	E	R
S	A	Н	N	Х	С	A	R	М	Е	S	т	М	Z	R	Z
A	Р	М	T	E	G	S	Т	L	Н	P	М	N	В	D	S
R	C	С	Н	L	I	R	IJ	Q	Ţ	Q	G	М	С	Ø	F
D	H	£	P	Н	A	М	P	Z	I	К	I	L	А	S	G
A	С	R	В	Х	P	М	N	Р	s	T	Н	Y	D	V	W
B	Z	W	E	Z	Y	G	A	N	Υ	М	E	D	E	Ť	A
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Н	I	М	А	L	I	А	E	Р	0	77	I	S	Α	0	Р

ADRASTEA	EUROPA	LYSITHEA
AMALTHEA	GANYMEDE	METIS
ANANKE	HIMALIA	PASIPHAE
CALLISTO	IO	SINOPE
CARME	LEDA	THEBE
ELARA		

SHUTTLE DISCOVERY LAUNCH POSTPONED

It seems Discovery, due to be launched at the beginning of June (last month) will be delayed at least until August. NASA are pining over the fact that in spite of trying to deter them with the presence of owls and other deterrents, woodpeckers persisted in damaging the craft's fuel tanks. How the woodpeckers got to be so misguided is unknown.

(From Radio 2 BBC broadcast News, 3rd June, 1995, 1002 UT.) Roy Adams. (Maybe they thought they dget some wood akachol!)
'SORT' IT OUT... WITH A

SOLAR ORBIT RADIO TELESCOPE?

A New Scientist*correspondent, 'signed'
A. Orr, has proposed sending a number
of radio telescope dishes into space
all around Earth's orbit. S/He says the
technology for coordinating the dishes
exists and would be cost-competitive.
Such an array would apparently afford
far better resolving power even than
the ten U. S. radio telescope Very Long
Baseline Array from Hawaii to the Virgin
Islands. (Ref. Scientific American, Feb.)
Has this idea been thought of before by
others?

Would this idea work with coordinated optical telescopes around Earth's orbit?

Roy Adams

*New Scientist, 1995 April 29, Letters.



Donething always told me we shouldn't use wood for the tubericar those woods!

'It's not that! It's you, leaving it in a vertical position!

Well, at least I didn't try to

'Well, at least I didn't try to camouflage it with branches like you said!'

WHIZZING ROUND THE INTERNET

(by Roy Adams)

Not (yet?) being a computer buff (or any other colour) I am interested to know a bit more about how the Internet operates, especially in regard to linking-in to astronomical and Earth-observation data. It seems that now the facility exists for us to reflect on ourselves in many ways - find out more about anywhere in the world regarding the state of certain rainforests - or see whether they still exist or not - see what the weather will be in a certain area at a given time, even see the colour of the paintwork on your next projected B&B when you go on holiday. And perhaps sleep on the motorway with servos guiding your car (a shared/rented one, hopefully? as otherwise the roads will still be too congested for everyone, and make the 'travelling blind' even more necessary as you couldn't see out anyway due to the pollution and high-sided vehicles all around you).

In other words, whether we get windmills (steel-tubed against woodpeckers?) or not to charge the batteries for electric cars, or achieve some other non-polluting or less-polluting way of powering our transports - and other things - would someone with some experience in matters of the (now increasingly also crowded?) Internet please write an article on the subject for 'tyros' like me?

e.e.e. thanx!

PROGRAMME FOR JULY

Mondays from 7.30pm No Directors available for this i	GENERAL OBSERVATION SECTION night
Tuesdays from 7.30pm Mr D Barnard	GENERAL OBSERVATION SECTION daytime only
Wednesdays from 7.45pm Mr M Cook	NEBULA & FAINT OBJECTS SECTION Mr D Payne
Thursdays from 7.30pm Mr P Richards	OBSERVATORY VISITS FROM OUTSIDE GROUPS
Fridays from 7.30pm 7th-21st Mr J Hood	DOUBLE STARS

All members are welcome to come but, on nights other than Wednesdays please check with the director of the night that the observatory will be open.

Lectures and other events:

Next Committee Meeting Saturday September 9th in the club room.

e-mail enquires to oasienq @ WWW url http://www.ast.cam.ac.uk:80/~ipswich/

1995 COMMITTEE			
1		Home Phone	Work Phone
CHAIRMAN	D Payne		
SECRETARY	R Gooding		
TREASURER	M Nicholls		
MAINTENANCE CO-ORD	M Cook		
JOURNAL CO-ORDINATOR	E Sims		
PUBLICITY & VISIT CO-ORD	P Richards		
EQUIPMENT CURATOR	M Harlow		
SPECIAL EVENTS CO-ORD	M Andrews		
LIBRARIAN & COMP SOFTWARE	J Appleton		
JOURNAL ARTICLES TO	Sims	lpsw	ich Suffolk IP1 4HA
CORRESPONDENCE ADDRESS	R Gooding (OASI Secretary	•
		Ipswich	Suffolk IP1 6AE