



OPEN DAY: (IMPORTANT!!) A meeting was held on August 29th at which arrangements for the Open Day were discussed. If you did not manage to get to this meeting, please telephone Mr. Easty (Ips [redacted]), or Mr. D. Bearcroft (Ips [redacted]) or myself as soon as possible. The Open Day will be held on afternoon of Sat 30<sup>th</sup> SEPT, & EVENING TO USE TELESCOPE. PLEASE BRING ALL YOUR FRIENDS & RELATIVES.

Editor: C.F. RADLEY, [redacted], Wherstead, Ipswich, IP2 8NQ.  
Telephone: Ipswich [redacted].

- WANTED FOR THE OPEN DAY:**
- 1) TELESCOPES, Lots of them, any size, type, make &c. If you have a telescope, or binoculars or any sort of astronomical equipment, bring it along! There will be members available to protect them from clumsy hands.
  - 2) PEOPLE, especially members. Lots and lots of them!! People are needed for easy but very necessary tasks such as guiding 'tourists' around (if you don't know your way around, that's no real problem). Also, to park cars, keep people off of Mr. Bell's lawn, to protect exhibits. We would like as many volunteers as we can get, please contact me, Mr. Easty or Mr. Bearcroft. Even if you forget to phone us up, it is still not too late to simply appear offering your services on the day.
  - 3) Miscellaneous exhibits, star maps, books, magazines, logbooks, any literature or anything else at all such as photographs perhaps. Bring them along. Even the most trivial things are welcome. If in doubt as to whether to bring it or not, bring it. \*TELESCOPES CANNOT BE BROUGHT UNANNOUNCED, PLEASE TELEPHONE MR. EASTY OR MYSELF FIRST. ALL TELESCOPES ARE WELCOME, BUT WE HAVE TO KNOW BEFOREHAND TO MAKE READY.\*

The above three items are very important, especially volunteers are needed. No particular talent is needed for the tasks that have to be performed, just hundreds of volunteers.

- 4) FOOD, DRINKS, REFRESHMENTS. Purchased or home made. Tons of it!! It is to be sold. Packets of tea, coffee, <sup>buns, rolls</sup> anything, fruit perhaps, so long as it is easily edible, and so long as tourists will buy it, to raise more funds for us.

If you can help in any of the above mentioned ways it will be really appreciated. The Open Day will only really work if there is some participation by members. AN EXAGGERATION\*

The Orwell Astronomical Society (Ipswich) was affiliated into the British Astronomical Association (B.A.A.) at the meeting of the B.A.A. on the 28th June, at 23, Saville Row, London. Meetings of the B.A.A. are held on the last Wednesday of every month, excluding July, August and September.

LUNAR SECTION:

Meetings to use the Observatory, supervised by Mr. Roy M. Cheesman, will be held on the following dates: - September 6th, 20th, & 27th. As well as: - October: - 11th, & 18th. The meetings are held as usual on Wednesdays at 8 p.m. Meetings are held even if the Moon is not visible, and provided it is a fairly clear night. Enquiries to Mr. Cheesman at [redacted] (off Heath Rd.) Ipswich.

Mr. Geoffrey Collier & his son David, Mr. Roy Cheesman, David Bearcroft, Philip Lucas, Michael Hadden & myself were working, cleaning up & decorating the Observatory on Wednesday 9th, 16th, & 23rd Sept. After each working session they used the telescope. More work will have to be done of this nature. Any volunteers are very welcome, transport can be arranged. On Wed 23<sup>rd</sup> Aug, Martin Topple & Paul Gibson also assisted the work at the Observatory. On Saturday 26<sup>th</sup> Aug, Mr. Roy Cheesman, M. Hadden, C. Radley swept & plastered the Observatory, while Mr. Dave Hill (an electrician) came to survey the building as regards electrical fittings. Mr. J. Easty was also present.

ADVERTISEMENT: SEE BOTTOM OF THIS PAGE

Observing sessions using the 10" telescope supervised by Mr. Roy Cheesman are on the above mentioned WEDNESDAYS. Mr. DAVID BEARCROFT holds sessions on alternate THURSDAYS usually, he should be contacted (tel Ips [redacted]) for confirmation of meetings, held at 8 p.m. onwards

The Norwich Astronomical Society are showing some more films this November. They will be shown on Saturday 18th November. They are: - APOLLO 13, We've got a problem. APOLLO 14 MISSION TO FRA MAURO, APOLLO 15, THE MOUNTAINS OF THE MOON, AND THE MARSIAN INVESTIGATORS. Mr. David Bearcroft is organising a coach load to Norwich that evening, if you wish to come along, the charge is 50p per person. Friends and non-members are just as welcome as members. It is certain to be very interesting. If you intend to come, fill in the attached form, and send it to Mr. D. Bearcroft, 3, Dereham Ave, Ips, alongside 50p.

I enclose 50p, and would like to go to Norwich. My name is: .....  
My telephone number (or failing that, address) is: .....

ADVERTISEMENT: FOR SALE: 4" REFLECTOR, JAPANESE, 2 EYEPieces, ALTITUDE STAND, £20  
APPLY: JACK DUCKER, [redacted], Ips. Tel: Ipswich [redacted]

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Mercury: Is visible as a morning star on the first couple of days in September, but it rapidly disappears. It rises at 03hrs40min G.M.T. on the first couple of days of September. On September 4th, at 23hrs G.M.T. Mercury will be 1.1° North of Regulus, the brightest star in the constellation of Leo; so it will be worth getting up at about 04hrs G.M.T. on September 5th and looking for where Regulus should be amongst the stars, and it should be quite easy to find Mercury that way. Mercury will Mag +1.0, Regulus is Mag +1.36. 1.1° is about twice the apparent diameter of the Moon.

Venus: Venus is now past her best, but is still well seen in the morning sky before sunrise. Venus rises at 01hrs15min at the start of September, and at 02hrs G.M.T. at the end. Venus fades from Mag -3.9 to -3.7 during the course of September. With the aid of a coloured piece of glass over the eyepiece in small telescopes, it will be possible to make out Venus' half full to gibbous phase. Venus and Mercury, of course, both rise in the East.

Mars is invisible this month, reaching Superior Conjunction (i.e. being the far side of the Sun from the Earth) on September 7th.

JUPITER: Is now an evening star still in Sagittarius, though it is becoming rather low down above the horizon now, and is therefore subject to haze. Jupiter fades from magnitude -1.9 to -1.8 during the course of September.

Interesting phenomena of Jupiter's natural Satellites occur very often, and can be observed in telescopes of more than 2" aperture. The phenomena are of two types. Disappearance of the satellites behind Jupiter's disk or shadow and reappearance, or transit of the shadow or its satellite across the disk of Jupiter. Such phenomena can be observed on September the 4th:-

Ganymede:-Disappearance 20h01m G.M.T. Reappearance 23h06min.

Callisto:-Transit starts:21h42m GMT/Transit ends:22h21m GMT/Callisto will appear as a dark spot moving across the face of Jupiter..

On September 7th Ganymede disappears behind Jupiter at 18h39m G.M.T., and emerges from Jupiter's shadow at 22h10m G.M.T.

On the 8th September Ganymede's shadow (a dark spot) leaves the face of Jupiter at 18h23m G.M.T. On the same evening, Io's shadow moves on to the face of Jupiter at 17h15m G.M.T., and Io itself → LEAVES the face of Jupiter at 18h13m G.M.T. Up to then it will have appeared as a bright spot moving across the disk of Jupiter. Io's shadow will leave the disk of Jupiter at 19h29m G.M.T. Any other similar phenomena occur throughout September. I list the dates of the evenings on which phenomena will occur, and you can look at Jupiter and see what is going on on those days. 13th, 14th, 15th, 16th, 18th, 21st, 22nd, 25th, 29th, 30th.

SATURN: Is a morning star this month. It remains in Taurus throughout the year, and is very well placed for observers in the northern hemisphere, its rings are wide open, and its south pole is visible. It brightens from Mag +0.3 to +0.2 in the month. Saturn rises at 22h30m G.M.T at the start of the month, and at 20h40m at the end.

METEORS. There are no predicted meteor showers for September. However, a very large and spectacular meteor storm is expected on OCTOBER 8th immediately after sunset, with rates of up to one meteor per second.!!

Meetings of the Norwich Astronomical Society

On September 16th there is going to be an illustrated talk by Mr. G.E. Lewis of the B.A.C. Space Systems Group about PLANETARY EXPLORATION BY SPACECRAFT. This will undoubtedly be a fascinating evening, and I intend to go there if I possibly can. I would very much like to hear of other people going there also. It will include information on the Russian VENERA & MARS programmes, & NASA'S MARINER & PIONEER projects.

On NOVEMBER 18th there will be films shown at Norwich. Mr. Bearcroft is organising a coach to visit these films. Those who wish to come should fill in the form below and give or send it to Mr. Bearcroft as soon as possible. Cost is 50p. The coach will leave the Electric House at 6p.m.

Name..... I would like to go to the films. I enclose 50p.  
.....Cut here.....

The films are:- APOLLO 13 HOUSTON WE'VE GOT A PROBLEM  
APOLLO 14 MISSION TO FRA MAURO  
APOLLO 15 THE MOUNTAINS OF THE MOON  
THE MARTIAN INVESTIGATORS (MARINERS 6, 7, 8 & 9)

A good view of the South Limb (edge) or South Polar Region of the Moon, will be visible on the evenings of the 27th and 28th, and throughout the nights of the 27th/28th, and 28th. This is due to libration, when the moon's north pole tends to point away from the Earth allowing its south pole to be seen. (Naturally there is no ice on the Moon's poles!!), except possible in trace quantities in shadows in craters). The phenomenon of the moon exposing its edges to the Earth is known as LIBRATION. Maximum libration occurs in the late morning of 28th August, but the moon is, of course, invisible then. Perigee (i.e. when the moon is closest to the Earth in its orbit) occurs on the date of maximum libration, at 20 hours G.M.T., August 28th.

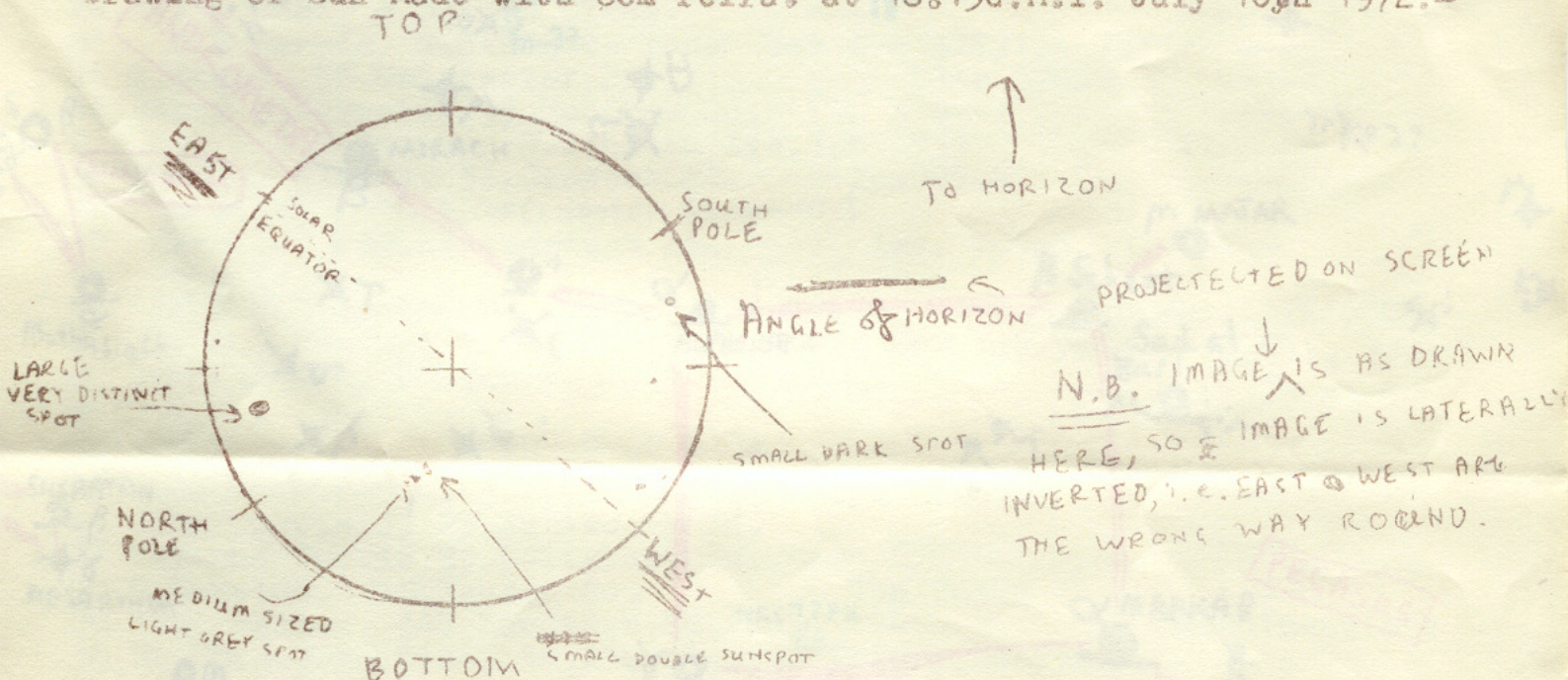
Editor's Logbook: I intend to include the 'juicier' bits of my astronomical observation diary every now and then. I would be extremely glad to receive excerpts from your own logbooks for publication.

19th March 1972:- Pleiades occultation by moon. Used 10x50 binoculars, 5x25 monocular, and 28x60 refractor, the latter gave the best view. Moon 4 days old crescent. Stars occulted by dark limb of Moon, dark limb just visible due to Earthshine. 19.05 G.M.T. saw 16 Tauri (magnitude 3.8) disappear. 23 Tauri (mag 4.2) disappeared 19.47 G.M.T. Glare from the Moon a nuisance. Mist made the view indistinct. Alcyone/Eta Tauri disappeared at 20.14 G.M.T. All times corresponded with those in the B.A.A. Handbook after I had corrected them for my garden.

10th July Partial Solar Eclipse. Projected solar disk with 6cm refractor on to white paper. Found it most convenient to have the projected solar image 2" across. Made a drawing of the Sun at 18h15m G.M.T. Returned to the telescope shortly after 19.30 G.M.T. through a gap in the cloud the Sun appeared, with a substantial "dent" in its outline. Sun then obscured by haze and cloud.

12th July. After O.A.S(I) Meeting looked outside off Observatory shutter and prepared 10" refractor with other members, but only saw fleeting glimpses of stars due to cloud. Vega and Arcturus (first magnitude stars therefore very bright) were the only ones visible well.

Drawing of Sun Made with 6cm refra. at 18.15 G.M.T. July 10th 1972:-

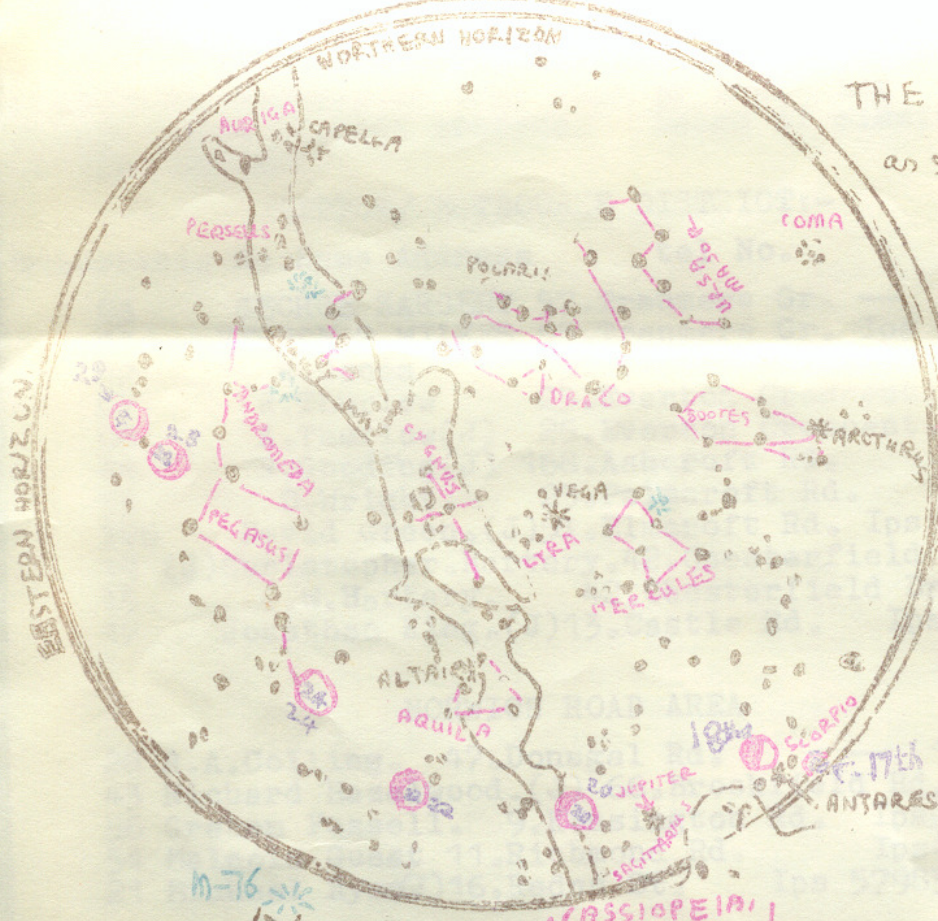


THE RELATIVE SCARCITY OF SUNSPOTS IS DUE TO THE FACT THAT THERE IS LITTLE SOLAR ACTIVITY IN 1972, AND SO FEWER SUNSPOTS.

My more complex drawings of lunar features are too complicated to be reproduced in this Journal except just possibly by photostating.

# THE AUGUST NIGHT SKY

as seen at 23.00 GMT at start of August  
 22.00 GMT at middle of "  
 21.00 GMT at end of "  
 20.00 GMT at middle of September

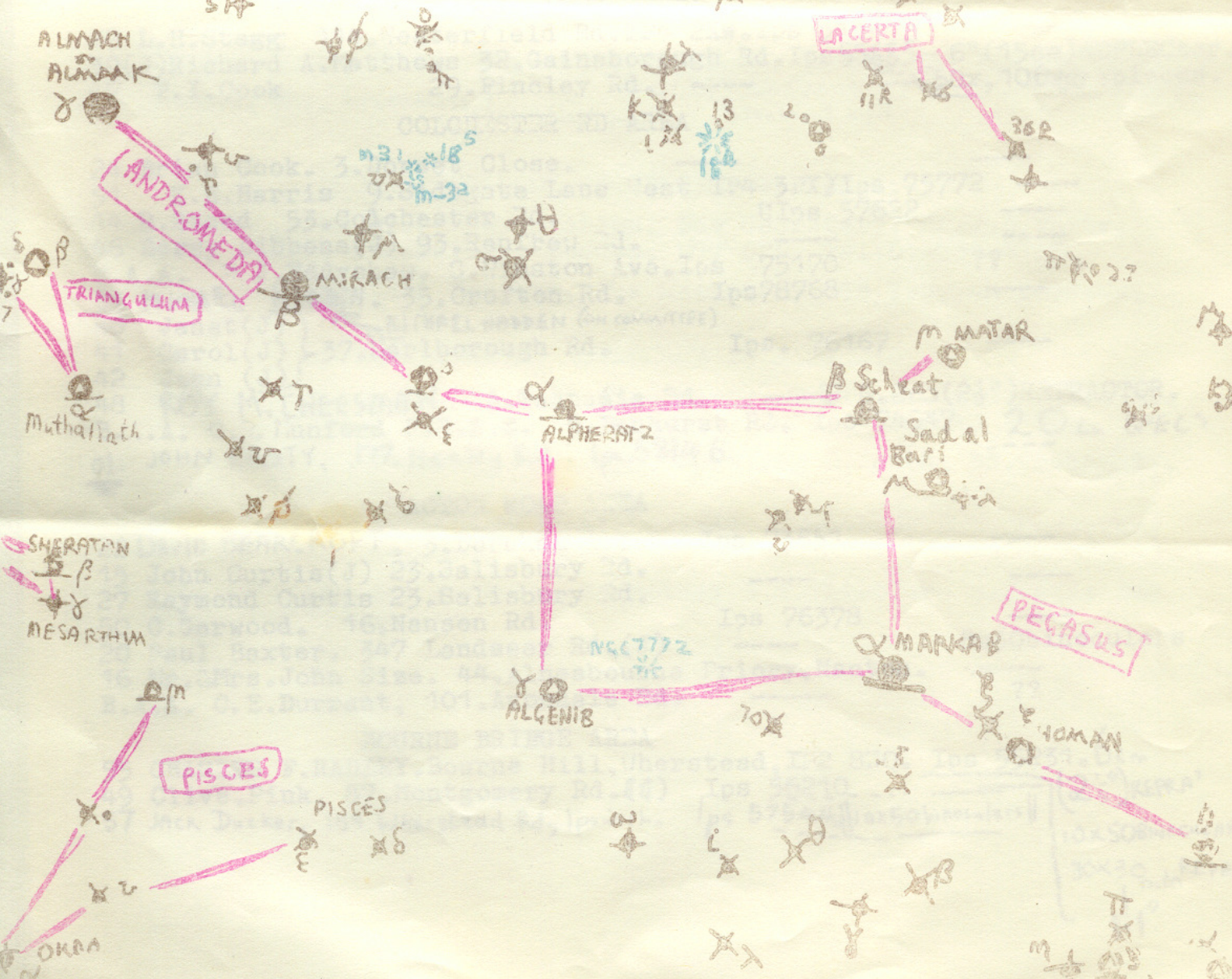


## MAP IVa

IN A MAGNITUDE SCHEME BELOW

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The moon is shown as a  
 IRC disk (left)



LIST OF MEMBERS OF THE CAMBRIAS ASTRONOMICAL SOCIETY (IPSWICH)  
and THE BRITISH ASTRONOMICAL SOCIETY (Ipswich area).

This list has been set out to cover the various regions of Ipswich and surrounding villages in such a way that all the members living in a particular area are in the same section of the list. Members with membership numbers of less than or including 13 were of the original baker's dozen founder members. Names of committee members are in CAPITAL LETTERS.

WHITTON/WESTBOURNE DISTRICT:-

Membership No.	Name	Address	tel No.	Equipment.
03	GEORGE SARGENT	[REDACTED]	[REDACTED]	[REDACTED]
13	VERNON T. WILKES	[REDACTED]	Ips	2" (5cm) REFRACTOR
12	R. Jones	[REDACTED]	[REDACTED]	[REDACTED]
07	R. Thurlow	[REDACTED]	Ips	[REDACTED]
08	A. Thurlow (J)	[REDACTED]	Ips	[REDACTED]
44	R. Gooding (J)	[REDACTED]	[REDACTED]	[REDACTED]
53	D. Wright	[REDACTED]	[REDACTED]	[REDACTED]
826	David Green (J)	[REDACTED]	Ips	[REDACTED]
19 (J)	Christopher Hartery	[REDACTED]	Ips	2 1/4" (6cm) REFRACTOR
45	G.W. Hartery	[REDACTED]	Ips	2 1/4" (6cm) REFRA'
17	Jonathan King (J)	[REDACTED]	Ips	[REDACTED]

NORWICH ROAD AREA

28	R.A. Colling	[REDACTED]	[REDACTED]	10x50 binoculars, 8x40 bino'
43	Richard Hazelwood (J)	[REDACTED]	Ips	[REDACTED]
56	Graham Fussell	[REDACTED]	Ips	3" (7.65cm) REFRACTOR +
54	Malcolm Guest	[REDACTED]	Ips	35mm Camera, 5 eye pieces.
21	Michael Ryan (J)	[REDACTED]	Ips	[REDACTED]

CHRISTCHURCH PARK AREA.

29	L.H. Stagg	[REDACTED]	IP4 2XW, Ips	[REDACTED]
39 (J)	Richard A. Matthews	[REDACTED]	Ips	6" (15cm) REFLECTOR.
47	T.I. Cook	[REDACTED]	[REDACTED]	50x, 100x eye pieces.

COLCHESTER RD AREA

24	Brian Cook	[REDACTED]	[REDACTED]	[REDACTED]
51	K.E. Harris	[REDACTED]	IP4 3PX, Ips	[REDACTED]
14	R. Steed	[REDACTED]	UIps 57622	[REDACTED]
46	Barry Dibbens (J)	[REDACTED]	[REDACTED]	[REDACTED]
B.A.A.	D. J. Eddyslaw	[REDACTED]	Ips	??
38	MICHAEL HADDEN	[REDACTED]	Ips	[REDACTED]
40	Janet (J)	[REDACTED]	[REDACTED]	[REDACTED]
41	Carol (J)	[REDACTED]	Ips	[REDACTED]
42	John (J)	[REDACTED]	[REDACTED]	[REDACTED]
48	ROY M. CHEESMAN	[REDACTED]	[REDACTED]	6.2cm (2 1/2") REFRACTOR.
B.A.A.	G.R. Nunford F.R.A.S.	[REDACTED]	Ips	20cm SPEC
01	JOHN EASTY	[REDACTED]	Ips	[REDACTED]

NACTON ROAD AREA

22	DAVID BEARROFT	[REDACTED]	Ips	[REDACTED]
15	John Curtis (J)	[REDACTED]	[REDACTED]	[REDACTED]
27	Raymond Curtis	[REDACTED]	[REDACTED]	[REDACTED]
50	C. Gerwood	16 Nansen Rd.	Ips	[REDACTED]
20	Paul Baxter	[REDACTED] (J)	[REDACTED]	8x30 binoculars
16	Mr. & Mrs. John Size	[REDACTED], Nacton.	[REDACTED]	[REDACTED]
B.A.A.	C. E. Durrant	[REDACTED]	[REDACTED]	??

BOURNE BRIDGE AREA

55	CHARLES F. RADLEY	[REDACTED]	IP2 8XQ, Ips	6cm
49	Clive Pink	[REDACTED] (J)	Ips	(2 1/2") REFRA'
57	JACK DUCKER	[REDACTED], Ipswich.	Ips	10x50 binoculars

10x50 BINOCULARS  
30x30 REFRA

Membership No.	Name	Address	Tel No.	Equipment
09(J)	Patrick Carroll	[REDACTED], Chelmsford	IP9 1NU	6cm(2 1/2") REFRA +
30	Rosemary Woolford	[REDACTED], Woolverstone	IP9 1BA	Woolve
35	Ben Woolford	[REDACTED], Woolverstone	do	Woolve
	G. David Collier (J)	[REDACTED], Chelmsford	Woolverston	
	Geoffrey Collier	[REDACTED], Chelmsford	Woolverstone	
37	Miss Susan Brand	[REDACTED]		

#### BELSTEAD ESTATE

36	David J. Brown	[REDACTED]	Ips [REDACTED]	(IP2 9LE)
25	Richard Den is (J)	[REDACTED]		
18	Michael McGrath	[REDACTED]	Ips [REDACTED]	

#### RUSHMERE KESGRAVE

23	Geoffrey Orvis	[REDACTED]		Rushmere-St-Andrew
10	Steven Miller	[REDACTED]		Kesgrave

#### FELIXSTOWE AREA

02	MARTIN TOPPLE	[REDACTED]		Trimley-St-Martin/Kirton
11	Andrew Farthing	[REDACTED]		Kirton
33	PHILIP LUCAS	[REDACTED]		Felixstowe
34	Spencer Bowden	[REDACTED]		Felixstowe
05	L.E. Thomas	[REDACTED]		Felixstowe
06	PAUL A.I. GIBSON	[REDACTED]		Trimley-St-Mary

#### HADLEIGH AREA

52	T.A. Day	[REDACTED]	IP7 6NE	Elmsett, Ciffon
	B.A.A. R.W. Payne	[REDACTED]		Hadleigh
	Jonathan Coolley (J)	[REDACTED]	IP7 5OD	Raydon Woodlands

24cm (9 1/2") SPEC  
tel: Hadleigh [REDACTED]

#### Further Afield:-

31	John Cox	[REDACTED]		Histley, Essex
32	Alan (J)	[REDACTED]		Manningtree
BAA	P.D. Brearey BSc.	[REDACTED]		Crowfield, Ipswich

6cm(2 1/2") Refractor, 10x50 binoculars.  
Stonham: [REDACTED] ?

#### OTHER ASTRONOMY SOCIETIES:-National:-

The British Astronomical Association, The Secretary, Mr. J.L. White, Burlington House, Piccadilly, London, W1V 0NL. Tel: 01-734-4145.

The Junior Astronomical Society, The Secretary, [REDACTED], Ilford, Essex.

#### EAST ANGLIAN ASTRONOMY SOCIETIES:-

The Norwich Astronomical Society, Secretary, Cyril D. Blount F.R.A.S., [REDACTED], Wymondham, Norfolk. Tel: Wymondham [REDACTED].

Great Yarmouth Astronomical Society, Secretary K. Dixon, [REDACTED], Gt. Yarmouth, Norfolk.

Chelmsford District Astronomical Society, Secretary J.N. Trompeter, [REDACTED], Chelmsford, Essex.

Cambridge Astronomical Society, Secretary S.R. Whistler, [REDACTED], Fulbourn, Cambridgeshire.