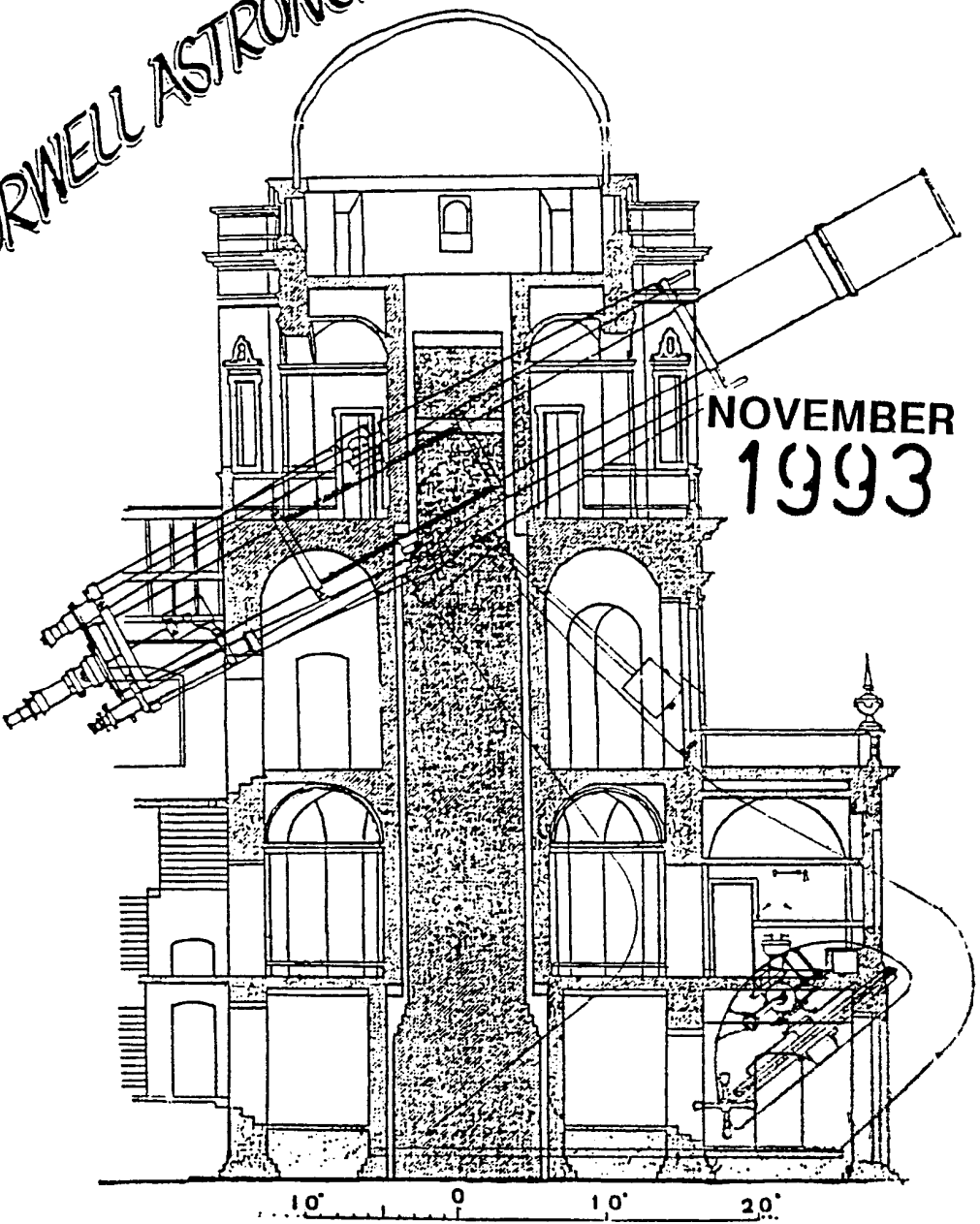


ORWELL ASTRONOMICAL SOCIETY IPSWICH



NOVEMBER
1993

SOCIETY NEWS

1 COMMITTEE MEETING

The meeting for Saturday 20th November.

NIGHT SKY

All times GMT

SUN Rises approximately between 07.10 to 08.00
Sets approximately between 16.40 to 15.50



MOON

7th

13th

21st

29th

MERCURY Mercury will be at inferior conjunction on the 6th, before passing into the morning sky. It will be at greatest western elongation on the 22nd (20°). Between the 20 and 30th of the month Mercury will be well placed for observation.

VENUS Venus will start to move into the morning twilight this month. By the end of the month it will be rising about one hour before the sun. Mag. -3.9

MARS Mars will be very low down in the western sky after sunset, and will not be visible this month.

JUPITER Jupiter will be rising at 04.30 by the end of the month. Mag. -1.7

SATURN Saturn will be setting at about 19.00 by the end of the month. Mag. 0.6

URANUS Uranus will be setting at about 21.30, in mid month. Mag. 5.7

NEPTUNE Neptune is close to Uranus in the sky and will be setting at about the same time. Mag. 7.9

R. Gooding

An OASI ten-pin bowling tournament has been arranged for Saturday 27th November. Kick-off (if that's the right expression) will be at 6 pm at the Martlesham Heath KingPin. Those attending will be required to part with around £6.50 and should register their interest with either Martin Andrews [redacted] or Pete Richards [redacted] if they've not done so already. Two lanes are already booked (this will cater for 20 people) and so we shouldn't be gazumped (if that's the right expression) this time.

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Canary islands trip

The current plan is to spend two weeks in the canaries with one week on La Palma and one week on Tenerife. The alternative is to have one or two weeks on one of these islands. We have (potential) contacts with the observatories in both places, so visits may be possible. No bookings have been made yet and dates have not been determined. The favoured dates are from around the 9th until the 23rd January. Some people may be coming for just one of the two weeks. A number of OASI members have expressed an interest as have a number of members of the Cambridge Astronomical Association. I have also spoken to a member of the Bristol Astronomical Society who is hoping to organise a similar trip at the same time and we may team up with them. If anyone not named below would like to come should contact me ASAP (by Wednesday 10th November at the latest). I will be bringing details to the observatory on a Wednesday evening in the very near future.

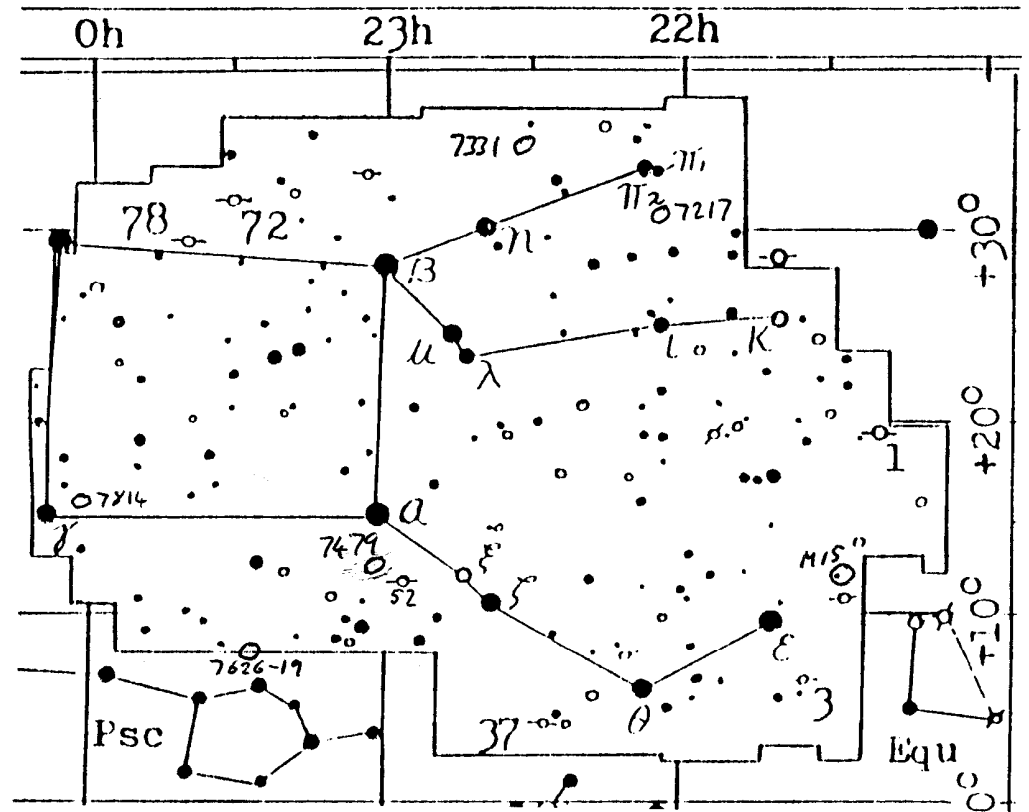
Canary Islands trip (the following have registered an interest):

Martin Andrews; James Appleton; Pete Richards; Mike Harlow; Ian Swan; Rod Greening (+ up to three other CAA members).

?????➡Have you ordered a green sweatshirt?

A green sweatshirt, ordered earlier this year, awaits collection at the dome. If it's yours and you can't get up to the dome on a Wednesday, contact me, Pete Richards.

PEGASUS



Pegasus is a very well known constellation, the centerpiece of the autumn sky for northern hemisphere observers. The great Square of Pegasus is one of the first constellations that beginners learn about. Once you can find the square it leads you on to finding all the other constellations that surround it, for example Andromeda, Pisces, Aquarius plus others.

Pegasus has several deep sky objects, M15 is a globular cluster of the condensed type, a show piece for the smaller telescope at about Mag 6.4. It is a large ball of stars rising in brightness to a bright core. M15 is also known to contain a planetary nebula,

but at Mag 15 and only 3 arcseconds in diameter not an object for most amature astronomers.

NGC 7331 is a large spiral galaxy of 9th Mag and seen at 15 off the edge-on position. It has a lot of dusty and closely wound arms. NGC 7331 is of similar shape and size to our own galaxy and is about 50 million light years away.

Another galaxy worth looking for is NGC 7479 a fine barred spiral, located 3° south of Alpha Pegasi (α). Its arms are relatively bright as is the cross-bar. We are seeing this galaxy almost flat-on and at about Mag 11 not an easy object especially with a field star at its western end.

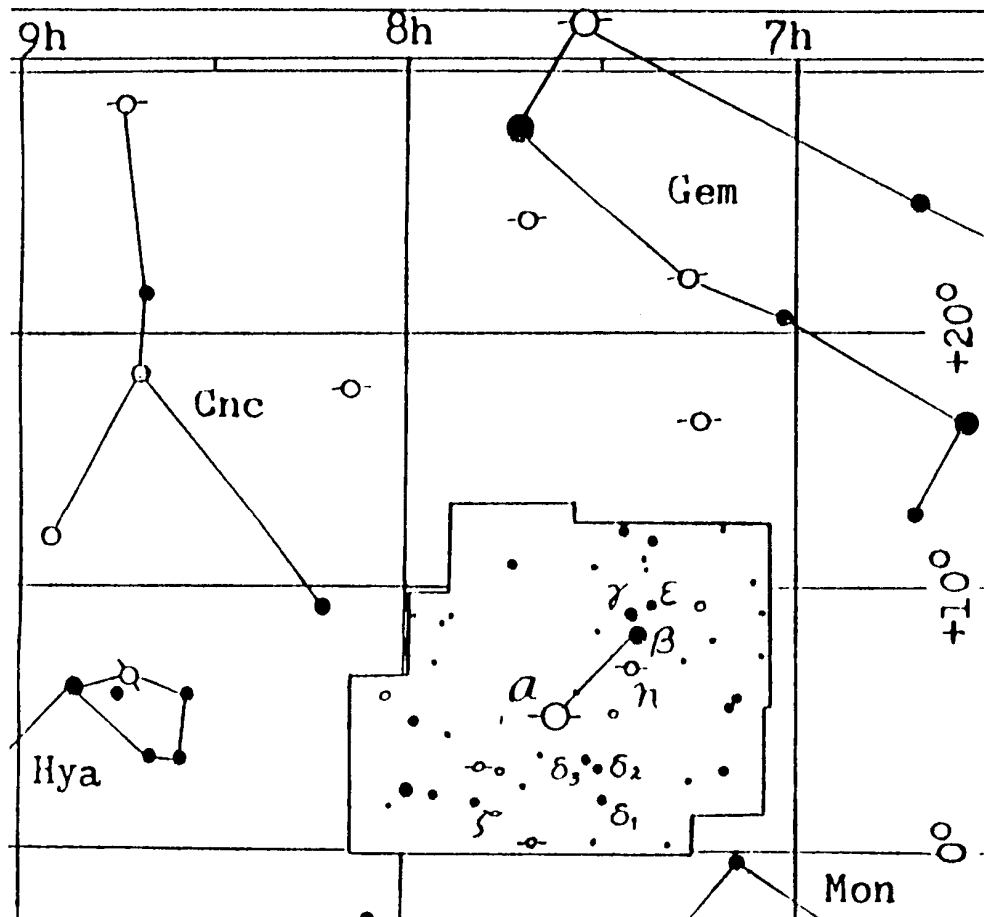
I have marked a few more galaxies to look for even though i cant think of much to say about them. They are in order of brightness NGC 7217 at Mag 10.2, NGC 7814 at Mag 10.9, and NGC 7619 & 7626 at Mags 11.1 & 11.24 that are so close that i marked them with one circle.

Pos.	1	m 2	D	d"	PA	No.
211919	4.2-9.3	c	36.3	312	1	
2610	7.4-7.4	b	1.5	289	E2799	
3506	7.8-6.3	c	31.6	163	3	
5219	6.5-8.6	d	22.7	110	E2841	
221207	6.8-8.3	b	1.4	121	E2878	
2704	5.7-7.0	b	1.0	117	37	
5611	6.1-7.4	b	0.7	267	52	
230532	6.0-7.8	b	8.4	145	E2978	
3131	5.9-5.9	b	0.5	230	72	
4129	5.0-8.1	b	1.0	231	78	

Double Stars

- 3 Look for another fine pair in same field of view.
- π_1 and π_2 are a pretty pair of yellow stars for binoculars.

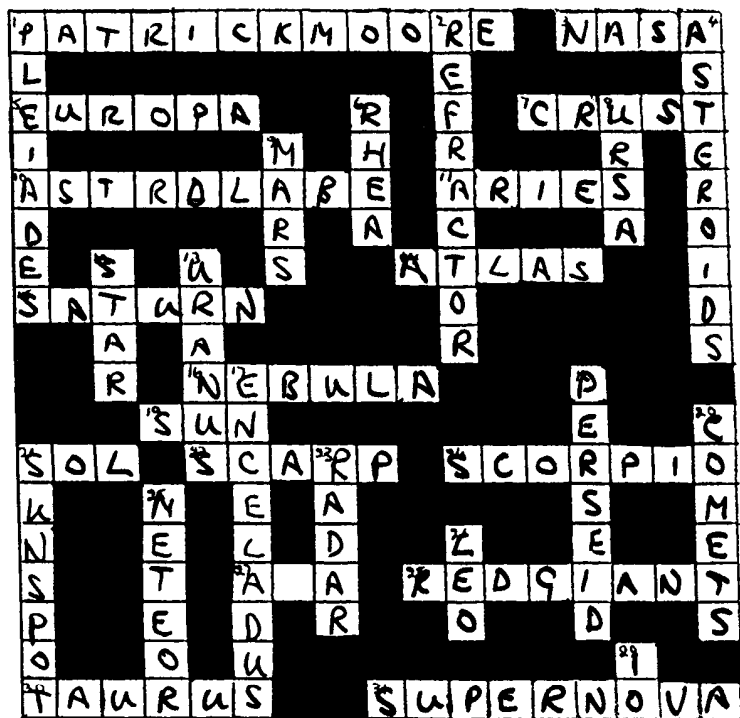
CANIS MINOR



Canis Minor is a tiny constellation which has one bright star Procyon which is a binary, and has a white dwarf neutron star as a companion.

Pos.	1	m 2	D	d"	PA	No.
072507	5.3-11.	c	4.1	26	π	
3605	0.4-9.5	b	*	40y	α	
3705	6.4-6.8	b	1.1	156	E1126	
4000	6.5-8.5	d	0.7	215	A2534	
* 0.3-4.3						

Double Stars



Clues.

Across.

- 1/ Presenter of Sky at Night.
- 3/ American space organisation.
- 5/ Galilean satellite.
- 7/ Earths is twenty three miles thick.
- 10/ Instrument once used for plotting stars.
- 11/ Constellation in line with the Ecliptic.
- 14/ Moon of Saturn only nineteen miles in Diameter.
- 15/ Fifth planet from the Sun.
- 16/ Clouds in space.
- 19/ Centre of the Solar System.
- 21/ Martian day.
- 22/ Steep slope in a planet or moons surface.
- 24/ Constellation in line with the Ecliptic.
- 27/ Constellation that contains the stars Zeta and Eta.
- 28/ Our Sun will eventually turn into one.
- 30/ Constellation in which the Hyades belong.
- 31/ Explosive end to a star.

Down.

- 1/ Seven Sisters.
- 2/ Type of telescope.
- 4/ There are lots of them between Mars and Jupiter.
- 6/ One of Saturns moons.
- 8/ Constellation, could be Major or Minor.
- 9/ Red planet.
- 12/ Our Sun is one.
- 13/ Seventh planet from the Sun.
- 17/ Saturnian moon over 300 miles in diameter.
- 18/ Type of meteor we have seen recently.
- 20/ Halleys one of these.
- 21/ Cool dark area on The Suns surface
- 23/ One of these was used to map Venus.
- 25/ Tiny particle that burns up on entering our atmosphere.
- 26/ Constellation of the Lion.
- 29/ Galilean satellite.

PROGRAMME FOR NOVEMBER

DAYS & DATES	DIRECTORS	SECTION & ADDRESSES	PHONE INC. STD CODE
MONDAYS from 7.30pm GENERAL OBSERVATION SECTION			
1-8-15	Mr R Newman	[redacted] Felixstowe, IP11 9DY	[redacted]
22-29	Mr J King	[redacted] Felixstowe, IP11 9LQ	[redacted]
TUESDAYS form 7.30pm GENERAL OBSERVATION SECTION			
2-9-16	Mr R Newman	(Address above.)	(Number above)
23-30	Mr J King	(Address above.)	(Number above)
WEDNESDAYS from 8.00pm NEBULA & FAINT OBJECTS SECTION			
3-10-17	Mr M Cook	[redacted], Ipswich, IP4 5PZ	[redacted]
24	Mr D Payne	[redacted], Wickham Market, IP13 0SD	[redacted]
THURSDAYS from 7.30pm OBSERVATORY VISITS FROM OUTSIDE GROUPS			
4-11-18	Mr P Richards	[redacted], Nacton, Ipswich, IP10 0HS	[redacted]
25	Mr G Marriott	[redacted], Ipswich, IP4 4JB	[redacted]
FRIDAYS from 7.30pm (may be postponed to Saturday) PLANETARY & LUNAR SECTION			
5-12-19	Mr P Richards	(Address above.)	(Number above)
26	Mr R A Lobbett	[redacted] Felixstowe, IP11 8UJ	[redacted]
	Mr G Marriott	(Address above.)	(Number above)

All members are welcome to come but, on nights other than Wednesdays please check with directors that the observatory will be open. Directors will also be able to tell you if a group visit is taking place. All of the sections observe anything of interest but the title of each section suggests a popular subject.

Lectures and other events:

COMMITTEE MEETING

The next committee meeting is to be held on Saturday 20th of November in the club room at 1930, as usual this is an open meeting so all members are welcome to attend.

TEN PIN BOWLING

Bowling is to take place at King pin bowling on 27th November at 6-00 pm. For more information contact P Richards on [redacted].
1993 COMMITTEE

		Home Phone:	Work Phone:
CHAIRMAN	D Payne	(Address above)	[redacted]
VICE CHAIRMAN & MEMBERSHIP SECRETARY	D Barnard	[redacted], Ipswich, IP3 8RN	[redacted]
SECRETARY	R Gooding	[redacted], Ipswich, IP1 6AE	[redacted]
TREASURER	M Nicholls	[redacted], Capel St Mary, Ipswich, IP9 2EX	[redacted]
MAINTENANCE CO-ORD	M Cook	(Address above)	[redacted]
JOURNAL CO-ORDINATOR	E Sims	[redacted], Ipswich, IP1 4HA	[redacted]
PUBLICITY & VISIT CO-ORD	P Richards	(Address above)	[redacted]
EQUIPMENT CURATOR	J King	(Address above)	[redacted]
SPECIAL EVENTS CO-ORD	A Smith	[redacted], Ipswich, IP4 5RZ	[redacted]