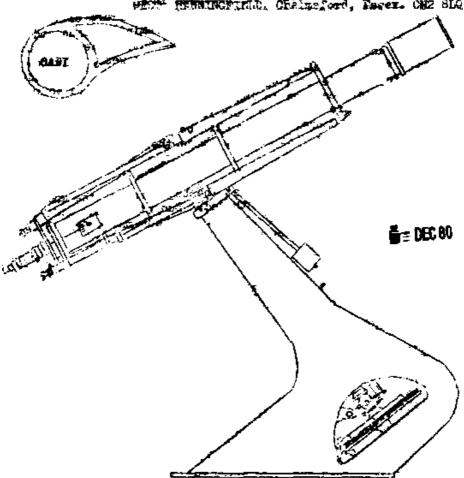
JOURNAL OF THE CHARLE ASIBOME-WEAR SOCIETY (IPSWICE)

Editor: Mr. P.Burt'

Totalch, IP: 52P

'phone Ipewich

Producer: Mr. M.M. Cheesman.
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The Greetl Park TOinoh Astronomical Telescope at Nacton near Ipswich.

THE NIGHT SKY AS SEEN FROM ORVELL PARK DURING DECEMBER.

by Paul Burt.

Auriga occupies the senith area this month, with it's main star Capella directly overhead in mid-month around mid-night. The southern sky contains a mixture of the obvious and not so obvious constellations of Gemini, Taurus and Orion which fills the south-east quadrant, while Eridanus Cetus and Pisces, in a line from south to west, requires more than a passing glance for identification. Indromeda and Pagasus lie in a vertical line from the senith to the western horizon, and to the north-west Cassiopsia, Capheus and Cygnus are also in a line from the senith to the horizon. To the east, Cancer and Leo will be well visible by the end of the month, as will Sirius, above the south-eastern horizon.

THE SUN

Surrise is at 77h 50m at the beginning of the month changing to 08h 10m at month-end. Sunset remains at approximately 15h 50m all month. The Sun moves from Scorpius to Sagittarius during the month.

THE MOON

New Moon 7d 14h 35m Full Moon 21d 16h 08m First Quarter 15d 01h 47m Last Quarter 29d 06h 32m

Occultations:

<u>Star</u>	Phase	Mag.	<u>Time</u>		
			₫.	<u>ħ</u> .	<u>m</u> .
**1733	R	5.2	1	2	27.2
49	Ð	ϵ .3	15	21	52.2
453	3	5.6 7	15	19	21.4
462	1,	53	16	est.	23.
* 6.X	5	6.0	39	30	16.4
1335	Ð	6.5	25	Ď	20,5

D = Disappearance B = Reappearance

Stars listed According to Addison Catalog (70 Numbers. * denotes double atom of denotes time is correct for latitude an Abagitus of Gracustah.

THE PLANETS:

Mercury is a morning ster, at mag. -0.5. rising 2 house before the Sun at the beginning of the month, but drawing towards the Sun to reach superior conjunction on the 31st.

Yemme rises 3 hours before the Sun at the peginning of the month at mag, -1.4, Crange of the current size win furing the month

Parth Winter Soletice is at Whiteholds.

Mark is setting 2 hours after the Sun at mag +1.4

Jupiter is rising at around 0100 hours in Virgo, at mag. -1.5.

Saturn le rising within 2° of Jupiter this month, at mag.

- Source: B.A.A. Bandbeck 1980 All these are U.A.

FROM OTHER JOURNALS:

Now Ingernava discovery:

to October 28th, a supernova was discovered in the spiral salary ECC 5945, by Paul Wild of the University of Berns. After confirming it's existence the following night, he alerted the I.A.C. who in turn distributed the news to astronomers throughout the world. The first spectrum to be taken was by the International Ultrace let Explorer Satellite, three hours after the I.A.C. alert, which revealed the supernova to be near maximum brightness and at 20,000°C. Subsequent observations by astronomers at Herstmonomic in Sussex revealed it's maximum magnitude to be 11.5, and this had reduced by 30% by Roverber 500. The position of the

supernova in a spiral arm of NGC 69/6 ruggests that it is a type II which is a young heavy star of about 10 solar masses.

The NCG 6946 glary is a prolific source of supernovas, producing five in the last 63 years. Supernovae as bright as the latest discovery are very rare, occurring on average twice per decade.

'New Scientist' 13th November, 1980.

METEOR NOTES FOR DECEMBER by David Barnard.

This month we have two showers to look forward to, a. the GEMINIDS and b. the UNSIDS. Last month's meteor count of the Taurids Shower was clouded out.

1. THE CEMINIDS SHOWER.

This stream is an excellent one with abundant fireballs. The maximum occurs on December 14.2 and has an hourly rate of about 58, although it remains active from Dec. 7 to the 15th. The crescent Moon in the west during the evening should not affect observations. Radiant is R.A. 0728 and Dec. +32°.

2. THE URSIDS SHOWER.

A stream bedly needing observation because of it's proximity to Christmas and bad weather usually associated with late December. The Z.H.H. is about 5, although this is uncertain. The maximum occurs on December 22nd with the normal limits running between December 17th and the 24th. The radiant is R.A. 14hrs 20m and Dec. is +70. The full Moon will seriously affect observations so we will have to try to observe this shower next year.

A METEOR COUNT WILL BE HELD ON SATURDAY 13th Recember to observe the Comfaling Onew a which is the day of

the maximum. Everybody veltome to come along for a few

North Meet Camples Time Timeston Ship! of 8.30p.m.

which bemard, Ipswich, if particular Meteor Section.



ORWELL ASTRONOMICAL SOCIETY (JPSWICE)

IPSWICH, Suffolk.

1st December, 1980.

Dear Member.

MEMBERSHIP SUBSCRIPTIONS FOR 1981.

All Membership Subscriptions to Orwell Astronomical Society (Ipswich) become due for 1981 on the 1st January. and are at the following rates:-

Junior Membership (those under 18
years of age or still in full—
time education) £2

Full Membership £3

Pamily Membership £4

If you would like to renew your membership to our Society for 1981 please send me your cheque/pestal order made out to 'Orwell Astronomical Society (Ipswich) as soon as possible please.

Yours feithfully.

signed.. M. Barriskill Hon. Sec. Orwell Astronomical Society (Ipswich)

NOMINATION FORM FOR THE 1981 COMMITTEE OF CHWELL ASTRONOMICAL SOCIETY (IPEWICE)

We wish to nominate to stand on the Committee of O.A.S.I. for 1981

Bignat.............

Countersigned

We wish to neminate..... to stand on the Committee of O.A.S.I. for 1981

Signed.....

Counterdigued.....

Note: All proposers must be countersigned by a member of 0.4.S.I. and the person nominated must agree to his/her nomination.

Further Momination Forms can be obtained either from the Observatory or direct from me.

Signed. M. Barriskill, Inswich.

Hon. Sec. Orwell Astronomical Society (Ipswich)

#11 Momination Forms must be returned to me by 51st December, 1980.

IRSWICH, Boffolk.

ist December, 1980

Dear Momber,

AMNUAL GENERAL MEETING.

You are invited to attend the Annual General Meeting of the Drwell Astronomical Society (Ipswich) which will be held an SATURDAY 17th JANUARY starting at 8p.m. sharp in the Library of Greell Park School, Macton near Ipswich.

At this meeting the Society's activities during 1980 will be discussed together with plane for the Society for 1981.

Also at this Meeting a new Committee to represent you for 1981 will be elected.

Yours faithfully,

Signed-

M. BARRISKILL

Her. Sec. Orwell Astronomical Society (Ipswich)

IPSWICH.

1st December, 1980.

NOMINATION FORM FOR THE

O.A.S.I. COMMITTEE FOR 1981.

All members of the Orwell Astronomical Society (Ipswich) retire as at 3'st December, 1980 and a new Committee to represent the Society for 1981 must be elected at the A.G.M. which will be held in the Library of Orwell Park School, Hacton near Ipswich on Saturday 17th January, 1981 starting at 8p.m.

The Committee for 1980 was:

Mr. R.M. Cheesman (Chairman) Mr. A.J. Smith (vice-Chairman)

Mr. M. Barriskill (Secretary) Mr. P. Long, (Treasurer) and Mr. D. Barnard.

Mr. M. Cook

Mr. D. Payne.

Apart from the Chairman all the other members of the Committee are villing to stand for re-election and no nominations are necessary.

Under the Constitution of the Society effective from the fat January 1801 the Committee will consist of one Chairman and eight (6) other members.

If you would like to nominate any member of the Society to represent you so the Committee for 1981 please fill in the form overleaf and return it to me to arrive by no later than 51st December, 1981.

Please note that all proposers of nominations must be countersigned by another member and that the nominated person must agree to his/her comination. Extra forms can be obtained from the Observatory or direct from me.

signed. M. Parrickill.

by Simon Harvey.

Sept 4th. Yet another Jovian Moon Discovered:

Dr. Stephen Synnott of the Jet Propulsion Laberities, after discovering the 15th moon of Jupiter a few months ago, has done it again and discovered a 16th. Dr. Synnott used imagery from the two N.A.S.A. Probes, Voyagers 1 & 2. The 16th satellite is tentatively named '1979 J3'. It has an orbital period of Theore aminutes 30 seconds and has a dismeter of about 40km. For a while he thought that the satellite was J14, but when expenieve calculations were made of J14's and J16's orbit, it was found that they were two separate satellites. The two Voyagers are now headed for Saturn and Voyager 1 will encounter the ringed planet during mid-Envember.

- N.A.S.A.

Sept 2. Four Shuttle Astronauts undertake CEIT Tests.

Columbia astronauts John Young and Bob Crippen together with Joe Engle and Dick Truly are about to undertake the third and final crew equipment interface tests (CEIT) with shuttle 'Columbia'. The tests are part of the run up to the first thattle flight (STS-1, OFT-1) scheduled for next March. Called WET for short, the tests are all bessed on operation of the Shuttle vehicle while in orbit. Amongst other things, the crews will assure proceedures for checking that shuttle cargo bay doors are latched shut.

- ROCKWELL SPACE SYSTEMS CROUP.

AUG 30th C.A.F.A. Sky Coint Sponsors in Smittle Psyload.

Olub of the Poy Scouts of Asseries to piece operatoring the Endorer Club of the Poy Scouts of Asseries to piece operatoris in cruit on the Space district. The experiment or experiments will be self spatiated and obscribe what N.A.B.R. calls "Met-away-special". A small psylond taking up excess capacity if Shutth drange pays. The 'Get-away-special' was designed to allow small compactor, groups and institutions access to space on a relatively cheap basis. The joint spaneous will faign all attional sattles made by benefide explorer groups. Project 'Postar' as it is called even provides for waxing sattlents to visit Goddard Spaceflight Centre to examine their experiments. However, groups must raise their own money for experiment design was construction. The panel of spansor representatives will include smang others, the former astronaut Jim havell.

- T.R.W. Defense and Space Systems Crowp,

SEPT 12th. FIRST COMMENT OF SEPTICE BECINS.

TELESAT, the Canadian National Saturate Telecommunications Organisation, is about to embark on what is called 'The World's First Communical 14/12 USZ Satellite Service'. TELESAT will use them.C.A. built ANIK-B satellite to re-transmit French language programs to a number of Quebec cable T.V. Time. The antenna has threatly beam placed on the top of Bell Jarada's Building in the centre of Montreal. The spatem is the for-rumor of the communications system that will be in common fee with the lumbh of the first WIK-C in 1952. The higher frequency band enables earth terminals to be placed in Urban areas without encountering the interference associated with the 'old' 6/4 HZ estellite systems. Each T.V. and pightal data will be trhemitted over this link.

- TELESA!

DEADLINE POR JADRAFY JOURNAL:

Please note that the dealine for the January Journal is by 1st post to me on Monday 15th December ALL items for inclusion must be sent to: R.M. Cheesman, WEST HANNINGFIELD, Chelmsford Essex, CM2 81Q.

SEPT 30th. STUDIES FOR SPACE OPERATIONS CENTRE

Boeing, under contract from N.A.S.A. is to study the feasability of placing a permanently manned space station in low earth orbit. The station or 'Space Operations Centre' (SOC) would be placed in a 200-250 mile orbit and lepend to a minimum the need for earth re-supply and taintenance. From the SOC, engineers could check an i service both satellites and manned orbital vehicles such as the Space Shuttle. The SOC would also serve to re-fuel orbital transfer vehicles - robots which are planned to succeed all Shuttle upper stages. The SOC differs from all previous space station plans in that it will be operational rather than scientifically operated. Space Shuttles would be used to transport units of the station to the required orbit. The modules would be 14 feet in diameter and 40 - 50 feet long. Power for the station would be mrowided by two large solar arrays. If ham. Same declines to adopt the study. a four man crew would be inhabiting the station by the late 1960's.

- Boeing Aerospace Company.

SEPT 19th. GOES-D ON IT'S WAY UP INTO ORBIT:

COES-D satellite has been successfully launched from Kennedy Space Centre's Complex 17 on September 19th. The satellite is now on station over the south American country of Columbia at 75° West Longitude and at an altitude of 22,300 miles. GOES-D is largely an experimental satellite and it's mission will be to monitor sever storms, floods, typhochs and hurricans, and all adverse weather conditions. Hughes Aircraft Company is building three identical GOES satellites under a \$39.4 N.A.S.A. contract. N.A.S.A. is procuring the satellites for the U.S. National Oceanic and Atmospheric Administration. That organisation will then process the data and disseminate it as needed. GOES-D will transmit 'whole earth images' every thirty minutes.

- HUCEFS STACE AND COMMUNICATIONS GROUP.

ORWELL ASTRONOMICAL SOCIETY ("DEMICE) MEDITINGS FOR DECEMBER 1980

At the Observatory, Oryald Beek School Nacton

PARTILITY: from Tp.m. Solar Lunar & Planetary Sections
Directions: Nr. J. Hood, Ipsuich
Nr. J. Remode, phone
Nr. N. Berritt, Ipsuich
Ipsuich

WEONESDAYS: from Sp.m. Nebulge & Faint Onjects Section.

December 2nd 9th and 16th.

Directors: Mr. D. Payne,

Wickham Market, phone Wiczham Mrt.

Mr. M. Gook,

Phone Ipwich

December 10th.

SUPPLIS: from 8p.m. Coneral Observations Sections

December 7th.

SUNDAY 14th December at 7.30mm, in the Observatory, Committee Mesting to which all members are invited.

OTHER MEETINGS.

GEMINIDS METEOR COUNT ON SAT. 13th DEC.

Meet OUTSIDE the 'Levington Ship' at 8.30p.m.

irrespective of weather conditions

Director D Barnard . Insuich.