

CAPE FEAR



Skies

The
Monthly
Newsletter of the
Cape Fear Astronomical Society

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Wilmington, NC

November 1989

November Meeting Announcement

Sunday
November 5, 1989
7:00 PM
Bryan Auditorium
Morton Hall
UNCW Campus

The next meeting of the Cape Fear Astronomical Society will be held on November 5, 1989 in the Bryan Auditorium of Morton Hall on the UNCW Campus. The Business meeting will begin at 7:00 PM EST.

The general meeting will begin at 8:00 PM. The program for the general meeting will be a slide presentation presented by Johnny Horne from Stedman, NC.

Meeting Minutes from October

The president, David Maness, called the regular business meeting of the Cape Fear Astronomical Society to order at 7:04 p.m. October 1, 1989 in Bryan Auditorium, Morton Hall, UNCW. The vice president, Paul Petty, checked the roll. David proposed dispens-

ing with the reading of the minutes from September's meeting. The treasurer, Ronnie Hawes, reported that the checking account balance was \$5.20; the observatory fund contained \$65.80 after expending \$12.36 on the Hampstead site's light bill.

David Maness explained that the fund-raising candy is paid for, so further sales will go to the treasury, and he said to get the money turned in. He iterated that the Catawba County Astronomy Club's star party on the Blue Ridge Parkway, part two, is planned for October 28.

Discussion about the Hampstead viewing site included various items. David Maness and Sam Bisette made a shelf for the astrophotography corner. Sam has trimmed the weeds. A power cable was installed so as to reach from the outlet to anywhere needed. A work session is scheduled for October 14 to shore up the south wall which was damaged by Hurricane Hugo.

Ronnie Hawes related he has heard from *Astronomy* magazine regarding subscriptions at the club rate.

David Maness noted that coming soon is some of the extensive video recordings Paul Petty made of Voyager 2's flyby of Neptune.

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Meeting Minutes - from page 1.

Tom Jacobs mentioned he has compiled a notebook of all back issues of *Cape Fear Skies* which will be available at regular meetings.

Eight members were present at the business meeting. It adjourned at 7:18.

Ronnie Hawes presented the evening's program, a videotape he acquired from the Astronomical Society of the Pacific entitled *The Quest For Contact*. The tape was produced by NASA's SETI Institute and covered the history and forthcoming efforts in the search for extraterrestrial intelligence. A few more members and two visitors attended the program.

-Paul D. Walker

Sky Calendar - from page 3.

Sunday: 26th

19h Mars passes 6° north of the Moon.

The first clear images of Mar's moon Phobos are taken by Mariner 9 on this date in 1971.

Tuesday: 28th

9:41 New Moon. Lunation number 828

The European-built Spacelab makes it's first orbital flight on this date in 1983 aboard the space shuttle Columbia.

Comet P/Clark at perihelion 1.6 au from the Sun.

Thursday: 30th

16h Uranus passes 3° north of the Moon.

Welcome New Members

Please welcome our newest members of the Cape Fear Astronomical Society. Our new members are Joe and Kim Marietta of Jacksonville.

Local Solar Ephemeris

If you find any discrepancies in the Sunrise and sunset table below please alert the editor.

Nominations for 1990 Society Officers

The days have become crisp. The nights are becoming clear. The hazy skies of summer are gone. We have reached the fall of another year.

As the new year draws near, it is time once again to call for nominations for society officers for the calendar year 1990.

At the January meeting we will elect someone to fill each of the following society officer positions: President; Vice-President; Assistant Vice-President; Secretary; Treasurer; and Newsletter Editor.

To start the election process a society member must be nominated for one of the society offices. Nominations must be made from the floor during the monthly business meeting. Anyone may nominate a member for any office. The person being nominated must be present to accept the nomination.

Nominations for society officers are now open. Nominations will remain open through the end of the December business meeting. Nominations are closed at that time in order to allow for the preparation of ballots.

Date	Twilight Begin	Sun Rise	Sun Set	Twilight End
11/1	5:06	6:31	17:18	18:43
11/2	5:07	6:32	17:17	18:42
11/3	5:08	6:33	17:16	18:42
11/4	5:09	6:34	17:16	18:41
11/5	5:10	6:35	17:15	18:40
11/6	5:10	6:36	17:14	18:39
11/7	5:11	6:37	17:13	18:39
11/8	5:12	6:38	17:12	18:38
11/9	5:13	6:39	17:11	18:37
11/10	5:14	6:40	17:11	18:37
11/11	5:14	6:41	17:10	18:36
11/12	5:15	6:42	17:09	18:36
11/13	5:16	6:43	17:09	18:35
11/14	5:17	6:43	17:08	18:35
11/15	5:18	6:44	17:07	18:34
11/16	5:18	6:45	17:07	18:34
11/17	5:19	6:46	17:06	18:33
11/18	5:20	6:47	17:06	18:33
11/19	5:21	6:48	17:05	18:33
11/20	5:22	6:49	17:05	18:32
11/21	5:23	6:50	17:04	18:32
11/22	5:23	6:51	17:04	18:32
11/23	5:24	6:52	17:04	18:31
11/24	5:25	6:53	17:03	18:31
11/25	5:26	6:54	17:03	18:31
11/26	5:27	6:55	17:03	18:31
11/27	5:27	6:56	17:02	18:31
11/28	5:28	6:57	17:02	18:31
11/29	5:29	6:57	17:02	18:31
11/30	5:30	6:58	17:02	18:30

Sky Calendar for November 1989

(All times are Given in UT. to convert to EST subtract 5 hours.)

Wednesday; 1st

11h Antares passes 0.2° north of the Moon. Occultation.

Thursday; 2ed

22h Venus passes 0.7° north of the Moon. Occultation.

----- Comet P/Gehrels at perihelion 2.4 au from the Sun.

Friday; 3rd

0h Ceres is stationary in right ascension; begins retrograde motion.

8h Uranus passes 4° north of the Moon.

21h Saturn passes 4° north of the Moon.

22h Neptune passes 4° north of the Moon.

Saturday; 4th

20h Vesta passes 1.0° south of the Moon. Occultation.

Sunday; 5th

----- Taurid Meteors south branch. Radiant is located at right ascension 03:32; declination $+14^\circ$; this is near the Pleiades. ZHR = 12/hr.

Monday; 6th

14:11 Moon at first quarter.

Tuesday; 7th

13h Pluto in conjunction with the Sun; moves into the evening sky. Distance from the Earth is 30.6 au.

Wednesday; 8th

2h Venus passes 3° south of Uranus.

17h Venus at it's greatest eastern elongation of 47° .

Thursday; 9th

----- The first successful unmanned test flight of the Saturn 5 moon rocket occurred on this date in 1967.

----- Cepheid Meteors - Radiant is located at right ascension 23:30; declination $+63^\circ$; this is located between Cepheus and Cassiopeia. ZHR = 8 usually much less. First observed in 1969 with 43 meteors in a 15 minute period.

Friday; 10th

17:29 Mercury at descending node.

19h Mercury in superior conjunction with the Sun; moves into the evening sky.

Saturday; 11th

----- The crew of Columbia deploys the first of two communications satellites on the first operational mission for the Space Shuttle on this date in 1982.

Sunday; 12th

13h Moon at perigee. Distance from the Earth is 56.1 Earth-radii.

21h Saturn passes 0.5° south of Neptune.

----- Pegasid Meteors - Radiant is located at right ascension 22:54; declination $+19^\circ$. Slow moving 15km/sec.

Monday; 13th

5:51 Full Moon called the "frosty" or "beaver" Moon.

----- Taurid Meteor North Branch. Radiant is located at right ascension 04:16; declination $+22^\circ$.

----- On this day in 1982 the last transmission received from Viking 1 on Mars, after more than 2300 days of operation.

Tuesday; 14th

----- Andromedid Meteors - Radiant is located at right ascension 01:40; declination $+44^\circ$; ZHR = 5 to 15; faint and slow moving 20km/sec; mostly red in color; Some will have orange trains.

Wednesday; 15th

15h Venus passes 4° south of Neptune.

19h Venus passes 4° south of Saturn.

Thursday; 16th

14h Jupiter passes 3° south of the Moon.

Friday; 17th

----- Leonid Meteors - Radiant is located at right ascension 10:08; declination $+22^\circ$ (this is in the sickle of Leo); fast moving 70km/sec; ZHR= 5-20. Many bright meteors; some fireballs; greenish or bluish in color. About half of the meteors will live trains

Monday; 20th

4:44 Moon at last quarter.

----- Edwin Hubble born this day in 1889

----- Astronauts Conrad and Bean recover pieces of Surveyor 3 spacecraft to return to Earth on this date in 1969.

Tuesday; 21th

3h Mercury at aphelion. Magnitude 0.9; distance from Earth 1.4 au.

----- Monocerotids Meteors. Radiant is located at right ascension 07:15; declination -7° ; Fast moving. Had 100 count during a 20 minute period in 1985.

Thursday; 23th

23h Pallas is stationary in right ascension; resumes direct motion.

Saturday; 25th

4h Moon at apogee. Distance from the Earth is 63.7 Earth-radii.

Upcoming Events in November 1989

Monthly Meeting of the Cape Fear Astronomical Society
Sunday November 5, 1989; 7:00 PM - Bryan Auditorium; Morton Hall; UNCW

Deadline for the December Newsletter
Friday November 17, 1989

Club Viewing Session
Saturday November 25, 1989; Dusk until "?" - Hampstead Site

Tom Jacobs - Editor
c/o Cape Fear Skies
110 Linville Dr.
Castle Hayne, NC 28429



Alan Hilburn
929 Arnold Rd.
Wilmington, N.C. 28403