



MEMBERS:

WELCOME TO CAPE FEAR SKIES, YOUR MONTHLY NEWSLETTER. EVERY MONTH, THE NEWSLETTER WILL INCLUDE INFORMATION ON PLANETARY ACTIVITY, A MOON CALENDER AND ANY OTHER SIGNIFICANT ASTRONOMICAL EVENTS. WE'LL KEEP YOU UP TO DATE ON AND METEOR SHOWERS, ECLIPSE ACTIVITY AND MONTHLT CONSTELLATION INFORMATION.

CAPE FEAR SKIES WILL ALSO INCLUDE SCHEDULES FOR CLUB MEETINGS, ACTIVITIES, PLANS, AND PUBLIC EVENTS. IN EACH ISSUE, THERE WILL BE A SPECIAL REPORT COLUMN. UNDER THIS HEADING THERE WILL BE A SHORT REPORT ON ONE SUBJECT SUCH AS GALAXIES, NEBULAE, CLUSTERS, ECT., OR IF A MEMBER OF THE CLUB OBSERVES ANY UNUSUAL ASTRONOMICAL EVENT, IT WILL BE REPORTED TO YOU IN THIS COLUMN.

OUR OF INTEREST COLUMN WILL BE A HEADING FOR BITS OF INTERESTING INFORMATION ON ASTRONOMICAL TRIVIA.

ALSO, IF ANYONE HAS ANY ASTRONOMICAL ITEMS FOR SALE OR TRADE, OR IF YOU WANT TO BUY SOMETHING, LET ME KNOW AND WE'LL PUT AN AD IN THE LETTER. YOU CAN REACH ME AT 799-4110 DAYS (FOUNTAIN TIRE SERV. OLEANDER DR.) OR 791-3534 AFTER 7:30PM

FIRST LETS INTRODUCE THE CLUB OFFICERS.

ALAN HILBURN-PRESIDENT
PAUL PETTY-VICE PRES.
JAMES ALLEN SMITH-ASSISTANT VICE PRES.
RONNIE HAWES-TREASURER
KIM WHITFIELD-SECRETARY

JANE FOUNTAIN-NEWSLETTER EDITOR

OUR NEXT CLUB MEETING WILL BE ON SUNDAY JULY 6TH 9:00PM ON THE CAMPUS OF UNC-W, KING HALL. WEATHER PERMITTING, WE MAY RUN DOWN TO FT. FISHER FOR SOME SUMMER NIGHT OBSERVING, SO COME PREPARED. (P.S. THAT MEANS BRING YOUR BUG SPRAY TOO.). IF YOU HAVEN'T RECEIVED YOUR COPY OF THE REVISED CONSTITUTION, YOU CAN GET A COPY AT THAT MEETING.

THE JULY SKY CALENDER

- 4TH HAPPY 4TH. MOON AT APOGEE 5:00AM
- 5TH EARTH AT APHELION 6:00AM
- 6TH CAPRICORNID METEORS
- 7TH NEW MOON 12:55AM. CAPRICORNID METEORS
- 8TH MERCURY 8 DEGREES SOUTH OF MOON AND STATIONARY
CAPRICORNID METEORS.
- 9TH VOYAGER 2 FLIES PAST JUPITER 1979.
- 10TH MARS AT OPPOSITION. VENUS 3 DEGREES SOUTH OF MOON.
VENUS 1.1 DEGREES NORTH OF REGULUS.
- 11TH JUPITER STATIONARY
- 14TH FIRST QUARTER 4:10PM. MARINER 4 FLIES PAST MARS 1965.
- 16TH MARS CLOSEST TO EARTH AT THIS OPPOSITION 7:00AM
- 17TH SATURN 5 DEGREES NORTH OF MOON.
FIRST PHOTOGRAPH OF A STAR (VEGA) TAKEN IN 1850
- 18TH ANTARES 1 DEGREE SOUTH OF MOON.
OCCULTATION.
URANUS 4 DEGREES NORTH OF MOON.
APOLLO/SOYUZ SPACE LINK-UP 1975.
- 19TH MOON AT PERIGEE 3:31PM.
- 20TH MARS 0.9 DEGREES SOUTH OF MOON
OCCULTATION.
APOLLO 11 LANDS ON THE MOON 1969
VIKING 1 LANDS ON MARS 1976.
- 21ST FULL MOON 6:40AM
PLUTO STATIONARY.
- 23RD MERCURY INFERIOR CONJUNCTION
- 25TH JUPITER 1.5 DEGREES NORTH OF MOON.
- 27TH DELTA AQUARID METEORS
- 28TH LAST QUARTER MOON 11:34PM
DELTA AQUARID METEORS. FIRST PHOTOGRAPH OF A TOTAL
SOLAR ECLIPSE 1851.
- 29TH JUNO STATIONARY. DELTA AQUARID METEORS
- 30TH APOLLO 15 LANDS ON MOON 1971
- 31ST MOON AT APOGEE 5:20PM (SECOND TIME THIS MONTH AT APOGEE)

CONSTELLATION INFORMATION

VISIBLE THIS MONTH ARE:

LYRA*	DELPHINUS	HERCULES	EQUULEUS
CYGNUS*	OPHIUCHUS	AQUILA	SAGITTA
SERPENS	SCUTUM	VULPECULA	SCORPIUS
SAGITTARIUS	CORONA AUSTRALIS	LIBRA	

THIS MONTH OFFERS EXCEPTIONAL VIEWING. THE SKY, FILLED WITH CLOUDS FROM THE MILKY WAY, PROVIDES VIEWERS WITH MANY EXCITING OBJECTS THAT ARE GREAT EVEN FOR BINOCULARS. MAKE SURE YOU CHECK IT OUT.

* FOR THOSE OF YOU WITH LARGER SCOPES, DON'T FORGET TO LOOK FOR THE RING NEBULA IN LYRA AND THE OTHER GREAT OBJECTS IN CYGNUS.

METEOR UP DATE.

ALAN HILBURN REPORTED AT THE LAST MEETING ABOUT A POSSIBLE METEOR SHOWER IN NORTHWEST LYRA ON JUNE 1ST AND 2ND ASSOCIATED WITH THE PASSAGE OF AN ASTEROID. DID ANYONE OBSERVE ANY? LET US KNOW IF YOU DID.

SPECIAL SKY REPORT MARS-PERHELIC OPPOSITION

MARS WILL BE AT OPPOSITION ON JULY 10TH. ITS MAGNITUDE WILL BE APPROXIMATELY -2.6 .EVEN FOR VIEWERS WITH SMALL SCOPES, THE DETAIL OF THE "RED PLANET" WILL BE EASILY VISIBLE. THIS TYPE OF PERHELIC OPPOSITION OCCURS VERY RARELY. THE NEXT, EVEN CLOSER APPROACH, WILL BE IN SEPT. 1988.

THE BEST EQUIPMENT FOR OBSERVING MARS WOULD BE SCOPES OF 3" OR LARGER (REFRACTOR TYPE) OR 6 TO 8 INCH REFLECTORS. FOR THOSE OF YOU WHO PLAN TO DO DETAILED OBSERVING, THE CLUB HAS OBSERVER NOTE SHEETS AVAILABLE SO YOU CAN BETTER DOCUMENT WHAT YOU SEE. IT WILL BE INTERESTING TO COMPARE NOTES AFTER THIS RARE EVENT. BY THE WAY, DON'T WORRY ABOUT THE MOON INTERFERING, IT WON'T BE ANYWHERE AROUND UNTIL ABOUT THE 21ST.

A FEW ORGANIZATIONS THAT MIGHT INTEREST YOU-ADDRESSES BELOW.

AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS
25 BIRCH ST.
CAMBRIDGE, MA 02138

ASSOCIATION OF LUNAR AND PLANETARY OBSERVERS
MINOR PLANETS SECTION
DEPT OF PHYSICS
ILLINOIS COLLEGE
JACKSONVILLE, IL 62650

INTERNATIONAL AMATEUR/PROFESSIONAL PHOTOELECTRIC PHOTOMETRY
DYER OBSERVATORY
VANDERBILT UNIVERSITY
NASHVILLE, TN 37235

HERE'S THE PHONE # FOR SKYLINE. 1-617-497-4168.
 SKY & TELESCOPE MAGAZINE FURNISHES DATA FROM ALL OVER THE WORLD
 IN THIS 3 TO 5 MINUTE RECORDED MESSAGE. IT'S NOT A FREE CALL,
 BUT THE CHARGES AREN'T VERY HIGH (ABOUT 50 - 80 CENTS PER CALL)
 AND THE INFORMATION IS, MOST OF THE TIME, WELL WORTH THE
 FEW CENTS IT COSTS. THEY HAVE NEW UPDATES EVERY FRIDAY.

OF INTEREST

DID YOU KNOW THAT AS EARLY AS 4000 B.C., THE PEOPLE OF THE
 EUPHRATES VALLEY HAD ALREADY ESTABLISHED THE CONSTELLATIONS
 OF LEO, TAURUS, AND SCORPIUS. OF THE 88 CONSTELLATIONS LISTED
 BY THE INTERNATIONAL ASTRONOMICAL UNION IN 1930, RECORDS SHOW
 THAT OVER HALF OF THEM WERE KNOWN TO THE ANCIENTS.

SPECIAL REPORT.

NOTES FROM THE DIV. OF PLANETARY SCIENCES AMERICAN ASTRO-
 NOMICAL SOCIETY MEETING HELD OCTOBER 29TH 1985.

DOUG BROWNLEE REPORTS "WE ROUTINELY COLLECT COMET DUST HERE
 ON EARTH." "YES, THERE IS COMET DUST IN YOUR BACK YARD."

DUST PARTICLES ARE SO SMALL AND FLUFFY, THEY DON'T BURN UP
 WHEN ENTERING THE ATMOSPHERE. INSTEAD, THEY MELT INTO TINY
 SPHERES THAT SINK SLOWLY TO THE GROUND. DUST IS ROUTINELY
 COLLECTED BY ASTRONOMERS AND SCIENTISTS FROM "CLEAN" PLACES
 SUCH AS THE ICE OF GREENLAND AND THE OCEAN FLOOR.

CONTENTS OF THIS DUST ARE MAINLY MINERALS; CHIPS OF CARBONACEOUS
 MATERIAL & TARBALLS. ELECTRON MICROSCOPE SCANS SHOW FINE
 CRYSTAL RIBBONS AND WHISKERS OF MINERAL STRUCTURE. HIGH
 ELEMENT RATIOS OF HYDROGEN AND DEUTERIUM SUGGEST A "PRE-SOLAR"
 COMPONENT IN THE DUST. SO THE NEXT TIME YOU'RE DIGGING IN
 YOUR GARDEN, REMEMBER, YOU ARE PROBABLY HANDLING SOMETHING
 PRETTY OLD AND VERY EXTRATERRESTRIAL.

FAREWELL TO COMET HALLEY.

OUR CLUB "HALLEY WATCHES" WERE VERY SUCCESSFUL. LARGE NUMBERS
 OF THE PUBLIC TURNED OUT FOR EACH GATHERING. EVERYONE WAS
 VERY ENTHUSIASTIC AND ENJOYED THE SHOW. THANKS TO ALL THE
 MEMBERS WHO TOOK THEIR TIME TO HELP INFORM THE PUBLIC ABOUT
 OUR SPECIAL VISITOR FROM SPACE AND WHO REMAINED VIGILANT IN
 THE FREEZING WEATHER WE EXPERIENCED. MEMBERS WITH LARGER SCOPES
 WILL CONTINUE TO TRACK THE COMET UNTIL IT ESCAPES EVEN THEIR
 VIEW. FAREWELL HALLEY, OUR CHILDREN WILL GREET YOU AGAIN IN
 2062.

A FOOTNOTE. THE CLUB MAY BE OFFERING, FOR SALE TO THE PUBLIC,
 PHOTOGRAPHS OF THE COMET THAT WERE TAKEN BY MEMBERS. THIS MAY
 BE CONSIDERED AT OUR NEXT MEETING. COME AND LET EVERYONE KNOW
 HOW YOU FEEL ABOUT THAT. THE SUGGESTED PLAN IS TO USE THE
 MONEY WE MAKE TO BY HATS AND JACKETS WITH OUR CLUB EMBLEM
 FOR THE MEMBERS.

MOST OF OUR NEWSLETTERS WON'T BE THIS LONG BUT I HOPE THAT YOU
 ENJOY THEM. LET ME KNOW WHAT YOU THINK.

EDITOR

Joe Fountain