

VOLUME 1, No. 3

SEPTEMBER 1986

#### MEMBERS:

OUR NEXT MEETING WILL BE ON SUNDAY SEPTEMBER 7th. 8:00PM ON THE CAMPUS OF UNC-W AT MORTON HALL. INCLUDED WITH YOUR NEWSLETTER IS A MAP OF THE CAMPUS SO EVERYONE CAN FIND THE CORRECT BUILDING. IT IS MARKED #14 AND YOU MAY PARK IN LOT G.

#### PERSEID METEOR SHOWER

ON THE NIGHT OF AUGUST 11th, THE CLUB HAD PLANNED TO GO UP TO HENRY McLAUGHLIN'S NEAR BURGAW TO OBSERVE THE PERSEID METEOR SHOWER THAT REACHED IT'S PEAK THE MORNING OF THE 12th.

ONCE AGAIN WE WERE FOILED BY MOTHER NATURE IN THE FORM OF CLOUDS AND THUNDERSTORMS. A FEW MEMBERS TRIED TO DO SOME OBSERVING BEFORE THE CLOUDS MOVED IN, BUT GOT LITTLE ACTIVITY FROM THE METEORS. OH WELL, THERE'S ALWAYS NEXT YEAR.

THE CLUB IS PLANNING A COOKOUT FOR THE EARLY PART OF OCTOBER. EITHER THE 5th OR THE 12th. THAT'S ON SUNDAY. WHAT WE'ER HOPING FOR IS TO HAVE OUR MEETING THEN AND GO FOR A LITTLE OBSERVING AFTERWARDS. FORT FISHER IS THE TENTATIVE PLACE, AND WE'RE SHOOTING FOR EARLY EVENING HOURS, AROUND 6:00 OR 7:00PM. EVERYONE TRY AND COME.

WE ARE ALSO THINKING ABOUT TRYING TO GET A SPACE INSIDE INDEPENDENCE MALL TO SET UP OUR TELESCOPES FOR DISPLAY. AT THE SAME TIME, WE WOULD LIKE TO OFFER ASTROPHOTOGRAPHY PRINTS FOR SALE. WE WILL BE USING MEMBERS PHOTOGRAPHS OF HALLEY'S COMET AS WELL AS ANY OTHER PHOTOS MEMBERS HAVE TAKEN (MOON, PLANETS, ECT.) IF ANYONE IS INTERESTED IN HAVING THEIR PHOTOS DISPLAYED, LET ALAN KNOW.

# THE SEPTEMBER SKY

1st	PIONEER II FLIES PAST SATURN IN 1979 HAPPY LABOR DAY!!		
2nd	JUNO(asteroid) DISCOVERED, 1894		
3rd	VIKING 2 LANDS ON MARS, 1976		
4th	NEW MOON, 3:10am		
5th	MERCURY IN SUPERIOR CONJUNCTION		
7th	VENUS 3 DEGREES SOUTH OF MOON		
9th	E.E. BARNARD DISCOVERES AMALTHEA, MOON OF JUPITER, 1892		
10th	SATURN 5 DEGREES NORTH OF MOON ANTARES 0.7 DEGREES SOUTH OF MOON OCCULTATION JUPITER AT OPPOSITION		
11th	FIRST QUARTER MOON, 3:41am URANUS 4 DEGREES NORTH OF MOON MOON AT PERIGEE, 8:00pm		
12th	NEPTUNE 6 DEGREES NORTH OF MOON LUNA 2, FIRST CRAFT TO IMPACT MOON, 1959		
13th	MARS 0.9 DEGREES NORTH OF MOON OCCULTATION		
14th	NEPTUNE STATIONARY CHARLES KOWAL DISCOVERS LEDA, MOON OF JUPITER, 1974		
17th	JUPITER 1.6 DEGREES NORHT OF MOON		
18th	FULL MOON 1:24am		
19th	HYPERION, MOON OF SATURN DISCOVERED, 1848		
23rd	AUTUMNAL EQUINOX 3:59am PALLAS IN CONJUNCTION WITH SUN NEPTUNE DISCOVERED 1846		
25th	LAST QUARTER MOON 11:17pm MOON AT APOGEE 5:00am		
28th	EDWIN HUBBLE DIES 1953		
29th	MERCURY 1.5 DEGREES NORTH OF SPICA		

#### ORIGINS OF THE CONSTELLATIONS

LEO THE LION- THE THICK, TOUGH SKIN OF THIS, THE FIERCEST LION IN THE WORLD, BECAME THE TRADEMARK OF HERCULES AFTER THE HERO SUCCEEDED IN STRANGLING THE LION TO DEATH, THUS SUCCESSFULLY COMPLETING HIS FIRST LABOR. THE LION WAS REWARDED BY BEING GIVEN A PLACE IN THE HEAVENS FOR HIS DEATH.

VIRGO THE VIRGIN- VIRGO HAS BEEN IDENTIFIED WITH A VARIETY OF HEROINES. THE ASSOCIATION WITH CERES, GODDESS OF THE HARVEST, HELPS EXPLAIN THE NAME OF THE BRIGHTEST STAR IN VIRGO, SPICA, WHICH MEANS AN EAR OF WHEAT OR CORN.

LIBRA THE SCALES- THIS CONSTELLATION WAS PROBABLY INVENTED AT THE TIME THE ZODIAC WAS ESTABLISHED. THE ARABIC NAMES OF THE TWO BRIGHTEST STARS IN LIBRA MEANS THE SOUTHERN AND NORTHERN CLAW, CONFIRMING THAT AT ONE TIME LIBRA WAS PART OF SCORPIUS. THE CONSTELLATION WAS LATER ASSOCIATED WITH THE SCALES HELD BY ASTRAEA, GODDESS OF JUSTICE.

SCORPIUS THE SCORPION- ACCORDING TO ONE ACCOUNT, APOLLO, WHO WAS CONCERNED ABOUT MAINTAINING HIS SISTER ARTEMIS' VIRGINITY, SENT THE SCORPION TO KILL ORION. BOTH ORION AND SCORPIUS WERE PLACED AS FAR FROM ONE ANOTHER IN THE HEAVENS AS POSSIBLE, SO AS TO AVOID FURTHER TROUBLE BETWEEN THEM, THOUGH SCORPIUS STILL PURSUES ORION AROUND THE CELESTIAL SPHERE.

#### ASTRONOMICAL GLOSSARY

ASTRONOMICAL UNIT- THE AVERAGE DISTANCE FROM THE EARTH TO THE SUN, WHICH EQUALS 149,598,770 KILOMETERS OR 86,759,262 MILES.

BLACK HOLE- A REGION OF SPACE IN WHICH MASS IS PACKED SO DENSELY THAT (ACCORDING TO EINSTEIN'S THEORY OF RELATIVITY) NOTHING, NOT EVEN LIGHT, CAN ESCAPE.

CELESTIAL LONGITUDE- LONGITUDE MEASURED (IN DEGREES) ALONG THE ECLIPTIC TO THE EAST FROM THE VERNAL EQUINOX.

DECLINATION- THE CELESTIAL COORDINATE ANALOGOUS TO LATITUDE, USUALLY MEASURED IN DEGREES, MINUTES, AND SECONDS OF ARC NORTH (+) OR SOUTH(-) OF THE CELESTIAL EQUATOR.

ECLIPTIC- THE APPARENT PATH THE SUN FOLLOWS ACROSS THE SKY DURING THE YEAR; THE SAME PATH IS ALSO FOLLOWED APPROXIMATELY BY THE MOON AND PLANETS.

HOUR ANGLE- THE SIDEREAL TIME ELAPSED SINCE AN OBJECT WAS ON THE MERIDAN OR, IF THE HOUR ANGLE IS NEGATIVE, BEFORE THE OBJECT REACHES THE MERIDAN. (THE HOUR ANGLE EQUALS THE DIFFERENCE BETWEEN THE RIGHT ASCENSION OF AN OBJECT AND OF YOUR MERIDAN.)

LIGHT YEAR- THE DISTANCE (63,240 A.U.) WHICH LIGHT TRAVELS IN ONE YEAR.

#### THE SEPTEMBER CONSTELLATIONS

PERSEUS PEGASUS CASSIOPEIA

LACERTA

CEPHEUS DRACO ANDROMEDA CYGNUS(SETTING)

AQUARIUS(RISING) ARIES

TRIANGULUM

#### SPECIAL REPORT

### THE 10 NEAREST STARS TO THE EARTH

NAME	R.A.	DEC	DISTANCE (LIGHT YRS)
PROXIMA CEN CEN A	14H 32M 14H 42M		4.24 LY 4.34 LY
BARMARD'S STAR	17H 58M	+04 36	5.97 LY
WOLF 359	10H 59M	+06 54	7.76 LY
BD +36o2147	11H Ø6M	+35 51	8.22 LY
L 726-8=A UV CET = B	1H 39M	-17 49	8.42 LY
SIRIUS A SIRIUS B	6H 46M	-16 45	8.64 LY
ROSS 154 (SGR)	18H 52M	-23 46	9.46 LY
ROSS 248 (AND)	23H 42M	+44 21	10.37 LY
EPSILON ERI.	3H 34M	-09 22	10.76 LY
ROSS 128 (VIR)	11H 50M	+00 41	10.96 LY

DID YOU KNOW....THAT PHOBOS (GREEK GOD OF FEAR) AND DEIMOS (GREEK GOD OF TERROR), THE MOONS OF MARS WERE SO NAMED BECAUSE THEY WERE COMPANIONS OF MARS, THE GOD OF WAR. THE MOONS THEMSELVES HOWEVER ARE INSIGNIFICANT AS MOONS GO. THEY ARE NOTHING MORE THAN SMALL ORBITING CHUNKS OF ROCK WITH NO PARTICULAR SHAPE TO THEM. SOME ASTRONOMERS THINK THAT THE TWO MOONS ARE NOTHING MORE THAN ASTERIODS THAT STRAYED FROM THE ASTERIOD BELT BETWEEN MARS AND JUPITER TO BECOME TRAPPED IN THE GRAVITATIONAL PULL OF THE PLANET. THESE ORBITING ROCKS NEVER BECOME BRIGHTER THAN 11th OR 12th MAGNITUDE WHICH MAKES THEM VERY DIFFICULT TO OBSERVE FROM EARTH.

BY THE WAY, WE WILL BE SHOWING A 30 MINUTE FILM AT OUR NEXT MEETING TITLED "MARS- THE SEARCH BEGINS."

CONGRATULATIONS TO RONNIE HAWES FOR BEING ACCEPTED INTO THE SUPERNOVA SUN SEARCH NETWORK. EACH MEMBER OF THIS INTERNATIONAL GROUP SELECTS BETWEEN 5 AND 10 GALAXIES IN THEIR AREA TO MONITOR ON A REGULAR BASIS. IF ANYONE THINKS THEY MAY HAVE OBSERVED A SUPERNOVA, THE GROUP IS ALERTED AND THEY MONITOR THAT PARTICULAR REGION FOR ACTIVITY. THIS GROUP IS INTERNATIONAL BUT BASED IN THE U.S. IF ANYONE HAS QUESTIONS ABOUT THE GROUP, CONTACT RONNIE AND I'M SURE HE'D BE GLAD TO FILL YOU IN ON THE DETAILS.

## CLASSIFIED ADS

FOR SALE

1 COMPLETE SET OF WILTIRION SKY ATLAS 2000
DELUXE EDITION (BLACK STARS ON WHITE BACKGROUND)
CONTAINS 26 CHARTS WITH CONSTELLATIONS OUTLINED.
\$5.00 FOR THE SET. CALL RONNIE HAWES 762-1033.