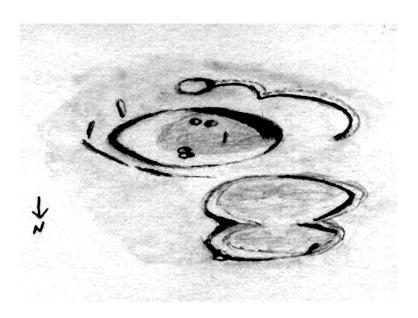


AN INDEPENDENT NEWSLETTER FOR STUDENTS OF THE MOON – February 2004 EDITED BY: William M. Dembowski, FRAS - Elton Moonshine Observatory 219 Old Bedford Pike (Elton) - Windber, PA 15963 - Dembowski@Adelphia.net

FEATURE OF THE MONTH



SCORESBY (77.7°N – 14.1°E), CHALLIS, & MAIN Sketch and Text by Robert H. Hays, Jr. – Worth, Illinois, USA July 16, 2003 – 10:00 to 10:22 UT – Seeing 7-8/10 15cm Newtonian Reflector – 170x

I drew these craters near the lunar north pole on the morning of July 16, 2003 after a nearly grazing occultation of 6th magnitude ZC 3227. The lunar libration was favorable for these craters so they were better placed than usual for observation. They caught my eye since the star disappeared near them. Scoresby is a fairly large crater with two peaks inside its southern rim, a short ridge west of center, and two small craters inside the north rim that made a close pair. The shallow crater south of Scoresby is Scoresby P, according to the Lunar Quadrant Map. To the west are two partial rings, the larger being Scoresby Q. Some strips of shadow were seen north and east of Scoresby, some parallel to its rim. Challis and Main are two smaller craters northwest of Scoresby. I saw no detail on their floors except for a bit of shadow inside the west rim of Main. I also saw a small crater along the northeast rim of Main. I could not see a common wall between these craters. There is a break in the rims where their floors overlap. These two craters also appear to be much shallower than Scoresby; perhaps they have been flooded.

OBSERVATIONS RECEIVED

MICHAEL AMATO - WEST HAVEN, CONNECTICUT, USA Ray Maps of Menelaus(3), Messier(3), Proclus(3), Kepler(4), Aristarchus(4) Sketch of Plato

RAFAEL BENAVIDES – CORDOBA, SPAIN

Digital Images of Doppelmayer, Gassendi, Hainzel, Montes Gruithuisen, Montes Harbinger

ED CRANDALL - WINSTON-SALEM, NORTH CAROLINA, USA Digital Images of Archimedes, Gassendi

DANIEL DEL VALLE - AGUADILLA, PUERTO RICO

Digital Images of Helmholtz, Plato, Cassini, Parrot, Walter, Apennine Mts.,

HOWARD ESKILDSEN – OCALA, FLORIDA, USA

Digital Images of Plato & Mare Imbrium(2), Copernicus & Eratosthenes, Clavius & Tycho

ROBERT H. HAYS, JR. - WORTH, ILLINOIS, USA

Complete report of total lunar eclipse including 5 sketches, 6 photographs, umbral contact timings, and crater timings.

JACK KRAMER – LILY LAKE, ILLINOIS, USA Digital Image of Mare Nectaris

K. C. PAU – HONG KONG, CHINA

Digital Images of Manilius, Madler, Lamont, Dorsa Smirnov, Archimedes

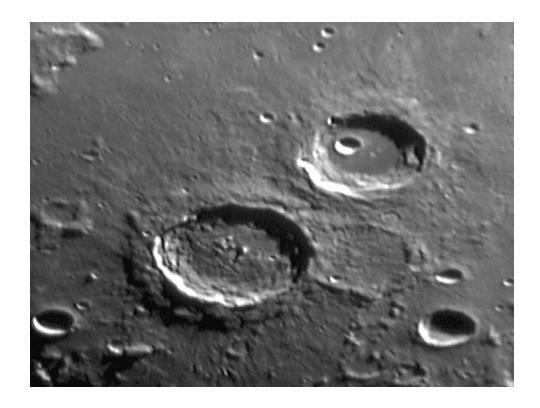
JOHN SUSSENBACH – THE NETHERLANDS

Digital Images of Aristarchus, B.Bond, Bullialdus, Burg, Clavius, Copernicus, Erathostenes, Fracastorius, Gassendi

ALEXANDER VANDENBOHEDE – BELGIUM

Digital Images of Strabo, Kies, Konig

TARGET: ATLAS



ATLAS & HERCULES
Image by K.C. Pau – Hong Kong, China
June 17, 2003 – 19:15 UT
CN212 Telescope – 2x Barlow – Philips TouCam Pro

Text by Bill Dembowski:

Near the northeastern limb of the Moon lies a magnificent pair of craters Hercules and this month's target, Atlas. Atlas has a diameter of 87 km with walls that rise 3,000 meters above its surroundings. The interior is relatively bright and, rather than a major central peak, has a small group of central hills. There are also what appear to be the remnants of a ring concentric to the outer walls.

Of great interest are three systems of rilles that cross the crater's floor. In addition to observing these rilles shortly after sunrise on Atlas, about four days after New Moon, give them a good look about three days after Full Moon. They often present themselves well at this time and three nights after Full Moon is not too late in the evening to catch a good look at the Moon.

Another fascinating feature on the floor of Atlas is its pair of dark spots, one to the north and the other to the south. Both have been reported as being variable in tonality. Large telescopes have revealed the presence of central craters in the dark spots suggesting some volcanic involvement. Plotting the tonality of the spots over time would be a project of great interest.

This striking crater can be found on Map #15 of Rukl's Atlas of the Moon

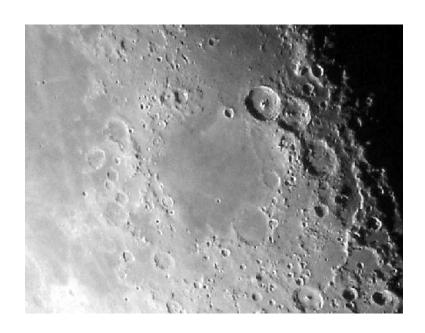
LUNAR CALENDAR - FEB. 2004 (UT)

TOPOGRAPHICAL STUDIES

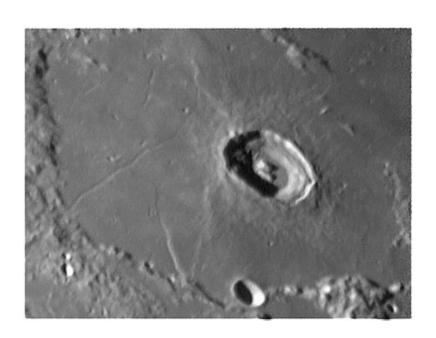


KIES Image by Alexander Vandenbohede – Gent, Belgium November 4, 2003 – 19:40 UT 20cm f/15 Refractor – Webcam (Afocal)

TOPOGRAPHICAL STUDIES

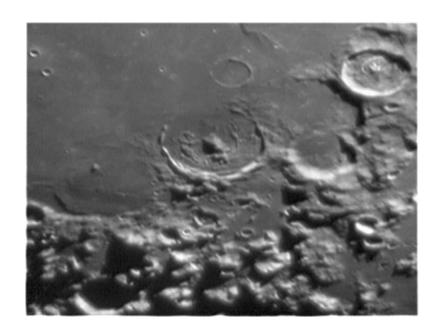


MARE NECTARIS
Image by Jack Kramer – Lily Lake, Illinois, USA
June 26, 2001 – 08:50 pm CDST
4 inch Refractor – 10mm Radian eyepiece – Sony S70

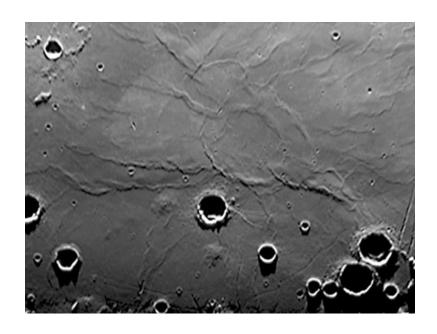


LACUS MORTIS & BURG
Image by John Sussenbach – The Netherlands
September 15, 2003
11 inch SCT – 3x Barlow – Toucam Pro

TOPOGRAPHICAL STUDIES



DOPPELMAYER Image by Rafael Benavides – Posadas, Cordoba, Spain January 3, 2004 – 20:40 UT 9-1/4 inch SCT – 2x Barlow – Toucam Pro



LAMONT
Image by K.C. Pau – Hong Kong, China
December 29, 2003 – 12:09 UT
10 inch Newtonian – 2.5x Barlow – Toucam Pro