

Bolidul no. 1

Ianuarie 2001

| | | | | | | |
|---|--|--|---|---|--|---|
| Luni 01 RS- 7:52 AS- 16:47 RL- 11:44 AL- 23:16 | Marti 02 RS- 7:52 AS- 16:48 RL- 12:08 AL- | Miercuri 03 RS- 7:52 AS- 16:49 RL- 12:32 AL- 0:19 | Joi 04 RS- 7:52 AS- 16:50 RL- 12:58 AL- 1:24 | Vineri 05 RS- 7:52 AS- 16:51 RL- 13:26 AL- 2:32 | Sâmbătă 06 RS- 7:52 AS- 16:52 RL- 14:00 AL- 3:43 | Duminică 07 RS- 7:51 AS- 16:53 RL- 14:41 AL- 4:57 |
| Luni 08 RS- 7:51 AS- 16:54 RL- 15:32 AL- 6:10 | Marti 09 RS- 7:51 AS- 16:55 RL- 16:34 AL- 7:19 | Miercuri 10 RS- 7:51 AS- 16:56 RL- 17:45 AL- 8:21 | Joi 11 RS- 7:50 AS- 16:57 RL- 19:02 AL- 9:12 | Vineri 12 RS- 7:50 AS- 16:58 RL- 20:20 AL- 9:54 | Sâmbătă 13 RS- 7:49 AS- 17:00 RL- 21:36 AL- 10:29 | Duminică 14 RS- 7:49 AS- 17:01 RL- 22:49 AL- 10:59 |
| Luni 15 RS- 7:49 AS- 17:02 RL- 24:00 AL- 11:27 | Marti 16 RS- 7:48 AS- 17:03 RL- AL- 11:53 | Miercuri 17 RS- 7:47 AS- 17:05 RL- 1:08 AL- 12:19 | Joi 18 RS- 7:47 AS- 17:06 RL- 2:14 AL- 12:47 | Vineri 19 RS- 7:46 AS- 17:07 RL- 3:18 AL- 13:18 | Sâmbătă 20 RS- 7:45 AS- 17:08 RL- 4:20 AL- 13:53 | Duminică 21 RS- 7:45 AS- 17:10 RL- 5:20 AL- 14:34 |
| Luni 22 RS- 7:44 AS- 17:11 RL- 6:14 AL- 15:19 | Marti 23 RS- 7:43 AS- 17:12 RL- 7:03 AL- 16:11 | Miercuri 24 RS- 7:42 AS- 17:14 RL- 7:46 AL- 17:06 | Joi 25 RS- 7:41 AS- 17:15 RL- 8:23 AL- 18:05 | Vineri 26 RS- 7:40 AS- 17:16 RL- 8:55 AL- 19:05 | Sâmbătă 27 RS- 7:39 AS- 17:18 RL- 9:23 AL- 20:06 | Duminică 28 RS- 7:38 AS- 17:19 RL- 9:48 AL- 21:08 |
| Luni 29 RS- 7:37 AS- 17:21 RL- 10:12 AL- 22:10 | Marti 30 RS- 7:36 AS- 17:22 RL- 10:36 AL- 23:13 | Miercuri 31 RS- 7:35 AS- 17:23 RL- 11:00 AL- None | Legenda: RS = răsărit Soare AS = apus Soare RL = răsărit Lună AL = apus Lună | Crepusul: început sfârșit 01 ianuarie 06:02 18:37 08 ianuarie 06:02 18:43 15 ianuarie 06:00 18:50 22 ianuarie 05:57 18:58 29 ianuarie 05:52 19:06 | | |

EVENIMENTE

| | |
|-----------|---|
| 02 | Primul Pătrar |
| 03 | Pământul la periheliu |
| 06 | Saturn la 2,0 N de Lună Jupiter la 3,1 N de Lună |
| 09 | Lună Plină Eclipsă de Lună |
| 13 | Mercur la 2,2 S de Lună |
| 16 | Ultimul Pătrar |
| 17 | Marte la 3,8 S de Lună |
| 22 | Mercur la 0,4 S de Uranus |
| 24 | Lună Nouă Neptun la 2,0 N de Lună |
| 25 | Uranus la 2,3 N de Lună |
| 26 | Mercur la 3,0 N de Lună |
| 28 | Venus la 6,4 N de Lună |

ECLIPSA DE LUNĂ

| | UT | PA |
|-----------------------------|----------|-----|
| Intrarea Lunii în penumbră | 17:43:29 | 106 |
| Începutul eclipsei parțiale | 18:42:01 | 114 |
| Începutul eclipsei totale | 19:49:30 | 324 |
| Momentul fazei maxime | 20:20:31 | |
| Sfârșitul eclipsei totale | 20:51:34 | 42 |
| Sfârșitul eclipsei parțiale | 21:59:02 | 251 |
| Ieșirea Lunii din penumbră | 22:57:31 | 259 |

Mărimea fazei maxime = 1,194

Redactori:

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Valeriu Tudose
Zoltan Deak

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zolid@mailbox.ro

ASTEROIZI

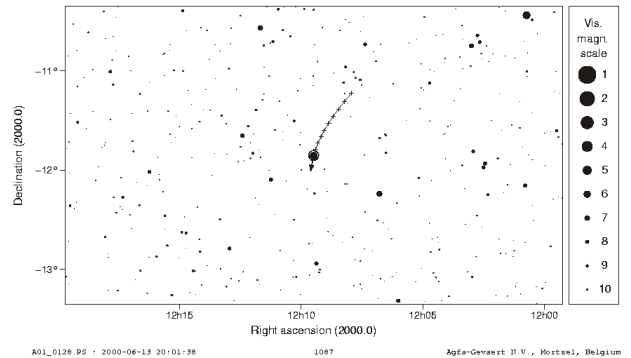
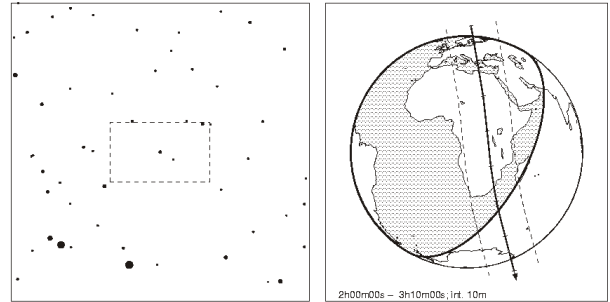
16 Psyche

| Data | Ascensia | Declinația. | Mag. |
|------------|----------|-------------|------|
| 2001 01 01 | 04 34.60 | +17 35.9 | 10 |
| 2001 01 02 | 04 34.06 | +17 36.2 | 10 |
| 2001 01 03 | 04 33.54 | +17 36.6 | 10 |
| 2001 01 04 | 04 33.04 | +17 37.1 | 10 |
| 2001 01 05 | 04 32.57 | +17 37.6 | 10.1 |
| 2001 01 06 | 04 32.13 | +17 38.2 | 10.1 |
| 2001 01 07 | 04 31.71 | +17 38.9 | 10.1 |
| 2001 01 08 | 04 31.32 | +17 39.7 | 10.1 |
| 2001 01 09 | 04 30.96 | +17 40.5 | 10.1 |
| 2001 01 10 | 04 30.62 | +17 41.4 | 10.2 |
| 2001 01 11 | 04 30.32 | +17 42.4 | 10.2 |
| 2001 01 12 | 04 30.03 | +17 43.4 | 10.2 |
| 2001 01 13 | 04 29.78 | +17 44.5 | 10.2 |
| 2001 01 14 | 04 29.55 | +17 45.6 | 10.3 |
| 2001 01 15 | 04 29.35 | +17 46.9 | 10.3 |
| 2001 01 16 | 04 29.18 | +17 48.2 | 10.3 |
| 2001 01 17 | 04 29.04 | +17 49.5 | 10.3 |
| 2001 01 18 | 04 28.92 | +17 51.0 | 10.3 |
| 2001 01 19 | 04 28.83 | +17 52.5 | 10.4 |
| 2001 01 20 | 04 28.77 | +17 54.0 | 10.4 |
| 2001 01 21 | 04 28.74 | +17 55.6 | 10.4 |

284 Amalia – TYC 5522-01688-1

2001 jan 28 2^h34.4^m U.T.

| Planet : | | | Star : | | Source kat. TYC2 |
|-------------------------------|-------------------------|-------------------|--|----------------------------------|------------------|
| V. mag. = 14.53 | Diam. = 55.1 km = 0.04" | | $\alpha = 12^{\text{h}}09^{\text{m}}28.925^{\text{s}}$ | $\delta = -11^{\circ}51'16.62''$ | |
| $\mu = 8.62^{\circ}/\text{h}$ | $\pi = 4.60''$ | Ref. = EG2000-012 | V. mag. = 8.12 | Ph. mag. = 8.74 | |
| $\Delta m = 6.4$ | Max. dur. = 16.6s | | Sun : 120° | Moon : 155° , 11% | |



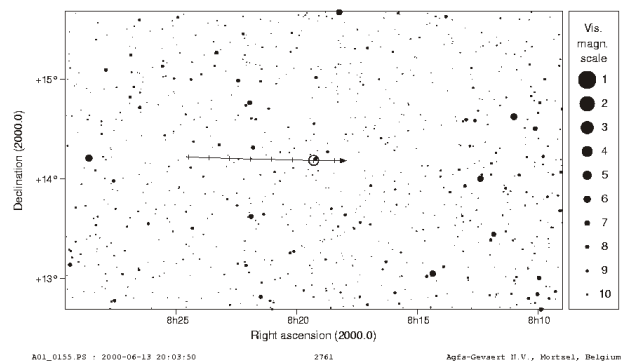
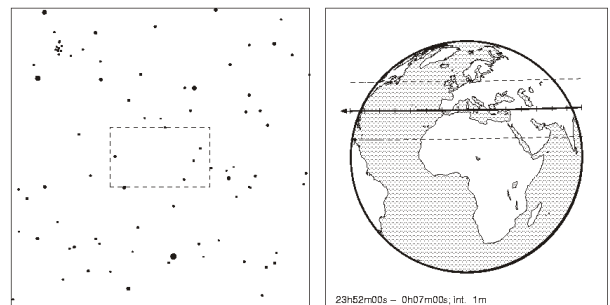
64 Angelina

| Data | Ascensia | Declinația. | Mag. |
|------------|----------|-------------|------|
| 2001 01 01 | 06 36.26 | +24 18.0 | 10.4 |
| 2001 01 02 | 06 35.23 | +24 18.3 | 10.4 |
| 2001 01 03 | 06 34.20 | +24 18.5 | 10.4 |
| 2001 01 04 | 06 33.17 | +24 18.7 | 10.5 |
| 2001 01 05 | 06 32.15 | +24 18.9 | 10.5 |
| 2001 01 06 | 06 31.14 | +24 19.0 | 10.5 |
| 2001 01 07 | 06 30.14 | +24 19.1 | 10.5 |
| 2001 01 08 | 06 29.15 | +24 19.1 | 10.5 |
| 2001 01 09 | 06 28.18 | +24 19.1 | 10.6 |
| 2001 01 10 | 06 27.21 | +24 19.0 | 10.6 |
| 2001 01 11 | 06 26.27 | +24 18.9 | 10.6 |
| 2001 01 12 | 06 25.33 | +24 18.8 | 10.6 |
| 2001 01 13 | 06 24.42 | +24 18.6 | 10.6 |
| 2001 01 14 | 06 23.52 | +24 18.4 | 10.7 |
| 2001 01 15 | 06 22.65 | +24 18.1 | 10.7 |
| 2001 01 16 | 06 21.79 | +24 17.8 | 10.7 |
| 2001 01 17 | 06 20.96 | +24 17.5 | 10.7 |
| 2001 01 18 | 06 20.15 | +24 17.1 | 10.7 |
| 2001 01 19 | 06 19.36 | +24 16.7 | 10.7 |
| 2001 01 20 | 06 18.60 | +24 16.3 | 10.8 |
| 2001 01 21 | 06 17.87 | +24 15.8 | 10.8 |

2494 Inge – TYC 0807-00470-1

2001 jan 16 23^h59.5^m U.T.

| Planet : | | | Star : | | Source kat. TYC2x |
|--------------------------------|-------------------------|-----------------|---|----------------------------------|-------------------|
| V. mag. = 15.07 | Diam. = 57.7 km = 0.04" | | $\alpha = 8^{\text{h}}19^{\text{m}}17.555^{\text{s}}$ | $\delta = +14^{\circ}11'17.07''$ | |
| $\mu = 32.08^{\circ}/\text{h}$ | $\pi = 4.02''$ | Ref. = MPC24372 | V. mag. = 10.86 | Ph. mag. = 12.44 | |
| $\Delta m = 4.2$ | Max. dur. = 4.1s | | Sun : 171° | Moon : 89° , 45% | |



VARIABILE

Maximele prezise ale variabilelor cu perioada lungă (AAVSO)

| | Stea | Mag | Data |
|----------|---------|-----------|--------|
| 0003-39 | V Scl | 9.9-14.6 | 31-Jan |
| 0009+28 | UW And | 9.6-15.0 | 7-Jan |
| 0045+33 | RR And | 9.1-15.1 | 23-Jan |
| 0054+27 | W Psc | 9.8-15.6 | 24-Jan |
| 0054-75 | U Tuc | 8.6-14.1 | 29-Jan |
| 0117+12 | U Psc | 11.0-14.4 | 15-Jan |
| 0212+81 | Z Cep | 10.8-15.4 | 24-Jan |
| 0220-00 | R Cet | 8.1-13.0 | 4-Jan |
| 0242+17 | T Ari | 8.3-10.9 | 2-Jan |
| 0257-51 | T Hor | 8.2-13.2 | 30-Jan |
| 0314-01 | X Cet | 8.8-12.3 | 14-Jan |
| 0432+08 | RX Tau | 9.6-14.0 | 15-Jan |
| 0520+36 | W Aur | 9.2-14.6 | 5-Jan |
| 0532-01 | X Ori | 9.3-15.0 | 4-Jan |
| 0612+75 | W Cam | 9.5-15.5 | 22-Jan |
| 0616+47 | V Aur | 9.2-12.1 | 14-Jan |
| 0632-01 | SY Mon | 7.3-15.0 | 18-Jan |
| 0732+34 | ST Gem | 8.8-14.5 | 22-Jan |
| 0742-41 | W Pup | 8.4-12.4 | 11-Jan |
| 0830+19 | U Cnc | 9.9-14.6 | 15-Jan |
| 0833+50 | X UMa | 9.7-14.4 | 21-Jan |
| 1105+06 | S Leo | 10.1-13.9 | 30-Jan |
| 1200+12 | SU Vir | 9.4-13.6 | 27-Jan |
| 1302-12 | RV Vir | 10.8-14.9 | 13-Jan |
| 1336-33 | T Cen | 5.5-9.0 | 29-Jan |
| 1344+34 | RT CVn | 9.9-15.0 | 25-Jan |
| 1353-04 | SY Vir | 9.0-15.0 | 31-Jan |
| 1449+18 | U Boo | 9.9-12.8 | 23-Jan |
| 1546+15 | R Ser | 6.9-13.4 | 24-Jan |
| 1611-22B | S Sco | 10.5-14.6 | 5-Jan |
| 1613+26 | NP Her | 9.3-12.8 | 16-Jan |
| 1621-12 | V Oph | 7.5-10.2 | 11-Jan |
| 1632+66 | R Dra | 7.6-12.4 | 11-Jan |
| 1656+31 | RV Her | 10.1-14.8 | 21-Jan |
| 1706+27A | RT Her | 9.4-15.0 | 21-Jan |
| 1726+18 | UZ Her | 8.3-15.5 | 28-Jan |
| 1728+09A | RU Oph | 9.3-13.8 | 10-Jan |
| 1805+18 | XZ Her | 10.2-15.5 | 16-Jan |
| 1818+28 | AZ Her | 10.4-16.0 | 10-Jan |
| 1831+49A | SV Dra | 9.7-14.3 | 28-Jan |
| 1909+31 | EL Lyr | 11.1-15.0 | 20-Jan |
| 1915+17 | W Sge | 9.0-15.5 | 23-Jan |
| 1946+32 | Chi Cyg | 5.2-13.4 | 24-Jan |
| 2007+15A | S Aql | 8.9-12.4 | 11-Jan |
| 2009-06 | Z Aql | 9.0-13.9 | 22-Jan |
| 2011+30 | SX Cyg | 9.0-14.3 | 19-Jan |
| 2011-39 | RT Sgr | 7.0-13.3 | 4-Jan |
| 2014+37B | WX Cyg | 9.7-12.6 | 2-Jan |
| 2022-40 | U Mic | 8.8-14.0 | 9-Jan |
| 2025+12 | RX Del | 10.2-15.5 | 24-Jan |
| 2039+37 | DR Cyg | 8.3-15.5 | 7-Jan |
| 2056-27 | RR Cap | 9.3-14.5 | 13-Jan |
| 2101-24 | V Cap | 9.2-14.4 | 31-Jan |
| 2103+82 | X Cep | 9.4-15.7 | 24-Jan |
| 2109-03 | RR Aqr | 9.5-13.9 | 31-Jan |
| 2140+24 | RR Peg | 9.2-14.1 | 16-Jan |
| 2204+12 | T Peg | 8.9-14.3 | 22-Jan |
| 2206+13 | Y Peg | 10.5-14.9 | 30-Jan |
| 2212-30 | R PsA | 9.2-14.7 | 20-Jan |
| 2219-38 | T Gru | 8.6-11.5 | 19-Jan |
| 2358+55A | Y Cas | 9.8-14.5 | 27-Jan |

COMETA C/1999 T1

| Data | Ascensia | Declinația |
|------------|----------|------------|
| 2001 01 01 | 14 56.41 | -12 47.3 |
| 2001 01 02 | 14 59.20 | -12 04.1 |
| 2001 01 03 | 15 01.99 | -11 20.2 |
| 2001 01 04 | 15 04.78 | -10 35.6 |
| 2001 01 05 | 15 07.58 | -09 50.3 |
| 2001 01 06 | 15 10.37 | -09 04.2 |
| 2001 01 07 | 15 13.16 | -08 17.4 |
| 2001 01 08 | 15 15.96 | -07 29.9 |
| 2001 01 09 | 15 18.75 | -06 41.7 |
| 2001 01 10 | 15 21.55 | -05 52.8 |
| 2001 01 11 | 15 24.34 | -05 03.2 |
| 2001 01 12 | 15 27.14 | -04 12.8 |
| 2001 01 13 | 15 29.94 | -03 21.8 |
| 2001 01 14 | 15 32.74 | -02 30.1 |
| 2001 01 15 | 15 35.54 | -01 37.8 |
| 2001 01 16 | 15 38.33 | -00 44.8 |
| 2001 01 17 | 15 41.13 | +00 08.9 |
| 2001 01 18 | 15 43.93 | +01 03.1 |
| 2001 01 19 | 15 46.73 | +01 58.0 |
| 2001 01 20 | 15 49.53 | +02 53.4 |
| 2001 01 21 | 15 52.32 | +03 49.4 |
| 2001 01 22 | 15 55.12 | +04 45.9 |
| 2001 01 23 | 15 57.91 | +05 42.9 |
| 2001 01 24 | 16 00.70 | +06 40.4 |
| 2001 01 25 | 16 03.49 | +07 38.4 |
| 2001 01 26 | 16 06.28 | +08 36.7 |
| 2001 01 27 | 16 09.07 | +09 35.4 |
| 2001 01 28 | 16 11.85 | +10 34.5 |
| 2001 01 29 | 16 14.63 | +11 33.8 |
| 2001 01 30 | 16 17.40 | +12 33.4 |
| 2001 01 31 | 16 20.17 | +13 33.3 |

(pe la mijlocul lunii dec. cometa avea mag. 8.5)

MCNAUGHT-HARTLEY

METEORI

| Curent | Perioada de activitate | Data maximului | Cod |
|-----------------|------------------------|----------------|-----|
| Coma Berenicide | dec 12-ian 23 | dec 19 | COM |
| Quadrantide | ian 01-ian 05 | ian 03 | QUA |
| delta-Cancride | ian 01-ian 24 | ian 17 | DCA |
| Virginide | ian 25-apr 15 | (mar 24) | VIR |

| lambda maxim | alpha radiant | delta radiant | v | r | ZHR | Cod |
|--------------|---------------|---------------|----|-----|-----|-----|
| 268 | 175 | +25 | 65 | 3.0 | 5 | COM |
| 283.16 | 230 | +49 | 41 | 2.1 | 120 | QUA |
| 297 | 130 | +20 | 28 | 3.0 | 4 | DCA |
| (004) | 195 | -04 | 30 | 3.0 | 5 | VIR |

DRIFTUL RADIANTILOR METEORICI

| | COM | DCA | QUA | VIR |
|--------|---------|---------|---------|---------|
| ian 0 | 186 +20 | 112 +22 | 228 +50 | |
| ian 5 | 190 +18 | 116 +22 | 231 +49 | |
| ian 10 | 194 +17 | 121 +21 | | |
| ian 20 | 202 +13 | 130 +19 | | |
| ian 30 | | | | 157 +16 |

AURORE BOREALE

11/12 AUGUST 2000, "THE NIGHT WHEN THE DAY CAME" ...
Observed from Canada by Ovidiu & Simona Vaduvescu

Location: Windermere, Ontario, Canada
about 250 Km North of Toronto.

Facts about Aurora: (all hours in Eastern
Time, corrected for daylight saving time = UT-4)

Its first light pillars appeared around 23h to the
North, by 23:30 turning in a bloody red for about 5
min;

Around 24h it diminished. After 1pm I took a nap
break in the car, waiting for the bright Moon to set;

By 3pm when I awoken, I saw the sky still bright,
so I supposed the Moon was still up. But this was
not the case... That enormous curtain of light was
the Aurora... For about one hour, it occupied the
whole Northern sky, its layers dancing madly near
the Zenith...

Around 4pm it occupied the whole sky, its bright
layers pulsating very fast about 40gr. around the
Zenith...

By 4pm at its "maximum", I estimated the "total
sky magnitude" about -8! That time the sky was
just a little darken than the bright Moon just set (3
days before its full phase)...

By 4pm I saw my shade on the grass, and I could
read the letters (7mm height) marked on my flash
light!!!

Although the sky was very transparent that night
(LM about 6 with the Moon), because of the bright
Aurora its limit magnitude decreased to about 4-5
(in some regions even 3, although the Moon set
down)!

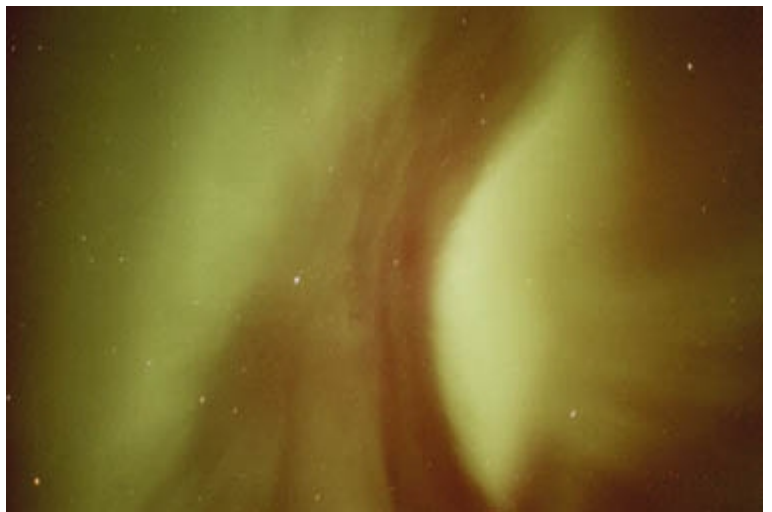
Camera: Nikon F60, f:1.8
Film: Kodak 200 ASA
Exp: 1-3 min (Aurora)

Notă:

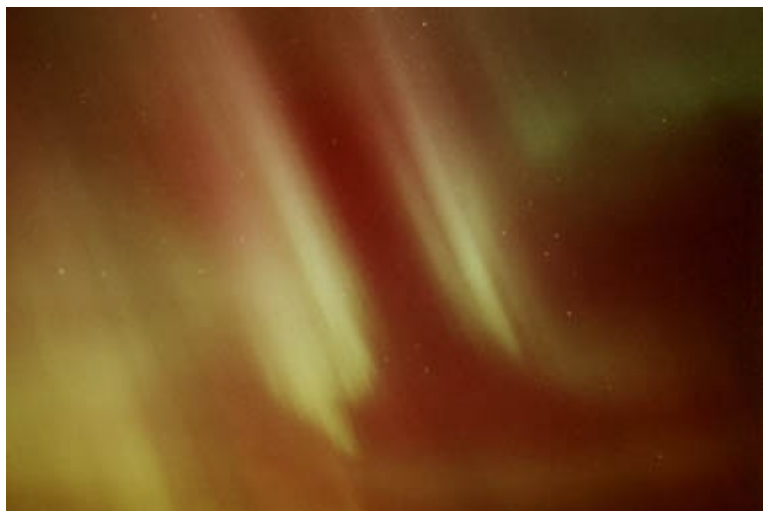
Va apare în "Noi și Cerul" un articol mai amplu
despre această noapte de observații



3:30am Huge Aurora ring near the Zenith. Moon is set.



4:00am Bright Aurora layers dancing to the Zenith.



4:15am Fantastic Aurora arrows to the West and Zenith