

A. Mrkos

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Observations of Comets and Asteroids at the Kleť Observatory in the Year 1976

A. MRKOS

Department of Astronomy and Astrophysics, Charles University, Prague*) and the Kleť Observatory

Received 31 December 1976

During the year 1976 were observed at the Kleť Observatory 7 comets and 12 asteroids. The following paper contains their precise positions and total magnitudes.

В 1976 году на обсерватории Клеť было исследовано 7 комет и 12 астероидов. В статье приведены их точное наблюдения и общий блеск.

V roce 1976 bylo na hvězdárně na Kleti pozorováno 7 komet a 12 asteroid. V práci jsou uvedeny jejich přesné pozice a celkové jasnosti.

The routine programme of comet observations at the Kleť Observatory is continued. A list of precise observations of the following objects obtained at the Observatory during the year 1976 is presented:

| | |
|----------------------------|------------------------|
| West (1975n) | Asteroid 661 Cloelia |
| Bradfield (1975p) | Asteroid 1079 Mimosa |
| Harlan (1976g) | Asteroid 29 Amphitrite |
| P/Faye | Asteroid 84 Klio |
| P/d'Arrest | Asteroid 183 Istria |
| P/Klemola | Asteroid 516 Amherstia |
| P/Schwassmann – Wachmann 1 | Asteroid 684 Hildburg |
| | Asteroid 172 Baucis |
| | Asteroid 221 Eos |
| | Asteroid 211 Izolda |
| | Asteroid 944 Hidalgo |
| | Asteroid 1832 |

The positions of comets and asteroids were obtained by means of the instruments

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described in [1]. Reference stars were chosen from the Smithsonian Astrophysical Observatory and AGK-3 Star Catalogues.

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Reference

- [1] A. MRKOS: Acta Univ. Carol., Math. et Phys. 11, 29 (1970) = Publ. Astr. Inst. Charles Univ. Prague No. 61 (1970).

Comet Bradfield 1975p

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|--------------|--|-------------------|-------|----------|
| 1491 | Jan. 8.71243 | 19 ^h 50 ^m 33.35 ^s | +11°29'37.6" | 6.2 | Mrkos |
| | 8.71428 | 19 50 33.98 | +11 29 45.4 | | Mrkos |
| 1493 | 9.70122 | 19 56 54.71 | +13 00 27.3 | 6.4 | Mrkos |
| | 9.70243 | 19 56 55.06 | +13 00 33.7 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1491 | SAO 105377 | 105386 | 105387 | 105380 | 105348 | 105351 |
| 1493 | SAO 105492 | 105529 | 105543 | 105515 | 105490 | 105586 |

Comet Harlan 1976g

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|--|-------------------|-------|----------|
| 1359 | May 24.92044 | 13 ^h 07 ^m 46.74 ^s | +41°09'07.0" | 17.0 | Mrkos |
| | 24.93190 | 13 07 46.22 | +41 08 55.9 | | Mrkos |
| 219 | 28.91971 | 13 05 29.13 | +40 08 52.8 | 16.8 | Mrkos |
| | 28.93551 | 13 05 28.16 | +40 08 38.4 | | Mrkos |
| 1574 | 29.91539 | 13 04 59.03 | +39 53 02.7 | 16.8 | Mrkos |
| | 29.92998 | 13 04 58.65 | +39 52 46.6 | | Mrkos |
| 1367 | Jun. 21.91956 | 13 01 47.54 | +32 32 04.9 | 16.3 | Mrkos |
| | 21.93414 | 13 01 47.68 | +32 31 46.3 | | Mrkos |
| 1373 | 24.90694 | 13 02 30.53 | +31 25 57.5 | 16.2 | Mrkos |
| | 24.82153 | 13 02 30.92 | +31 25 40.0 | | Mrkos |
| 1586 | 26.90530 | 13 03 07.39 | +30 40 47.0 | 16.2 | Mrkos |
| | 26.91971 | 13 03 07.81 | +30 40 21.5 | | Mrkos |
| 1589 | 30.89861 | 13 04 40.53 | +29 08 14.5 | 16.0 | Mrkos |
| | 30.91304 | 13 04 40.68 | +29 08 5.8 | | Mrkos |
| 1594 | 2.91958 | 13 05 37.39 | +28 20 29.3 | 16.0 | Mrkos |
| | 2.93388 | 13 05 37.85 | +28 20 10.1 | | Mrkos |

Reference Stars Numbers

| | | | | | |
|------|----------------------------------|--|----------------------------------|-----------------|----------------|
| 1359 | AGK 2 +40°1300 AGK 2 +41°1168 | AGK 2 +40°1301 | AGK 2 +41°1171 | AGK 2 +41°1169 | |
| 219 | AGK 2 +30°1318 AGK 2 +39°1314 | AGK 2 +39°1321 | AGK 2 +40°1299 | AGK 2 +40°1297 | |
| 1574 | AGK 2 +30°1318 AGK 2 +40°1297 | AGK 2 +39°1320 AGK 2 +39°1314 | AGK 2 +39°1321 | AGK 2 +40°1299 | |
| 1367 | SAO 063314 | AGK 2 +32°1182 AGK 2 +32°1184 | AGK 2 +32°1185 | AGK 2 +32°1186 | |
| 1373 | SAO 063318 | 063319 AGK 2 +31°1187 AGK 2 +31°1182 | AGK 2 +31°1186 | AGK 2 +31°1185 | |
| 1586 | SAO 063324 | 063367 063319 | AGK 2 +31°1247 AGK 2 +30°1244 | AGK 2 +31°1189 | |
| 1589 | SAO 082658 | 082670 | 085672 | 085678 082645 | AGK 2 +29°1317 |
| 1594 | SAO 082655 | 082653 | 082674 | 082691 082678 | AGK 2 +28°1305 |

Periodic Comet Faye

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|--|-------------------|-------|----------|
| 1407 | Aug. 25.87734 | 20 ^h 33 ^m 42.66 ^s | -5°11'08.9" | 16.2 | Mrkos |
| | 25.89175 | 20 33 42.01 | -5 11 16.1 | | Mrkos |
| 1410 | 26.86863 | 20 32 57.71 | -5 17 46.5 | 16.0 | Vávrová |
| | 26.88322 | 20 32 57.11 | -5 17 54.1 | | Vávrová |
| 1412 | 28.84757 | 20 31 31.37 | -5 31 9.3 | 16.2 | Mrkos |
| | 28.86198 | 20 31 30.80 | -5 31 14.8 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1407 | SAO 144605 | 144618 | 144640 | 144659 | 144647 | 144608 |
| 1410 | SAO 144597 | 144608 | 144618 | 144603 | 144605 | 144568 |
| 1412 | SAO 144568 | 144551 | 144555 | 144578 | 144603 | 144605 |

Periodic Comet d'Arrest

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|--|-------------------|-------|----------|
| 1583 | Jun. 25.97100 | 18 ^h 52 ^m 35.97 ^s | +21°42'22.3" | 14.8 | Mrkos |
| | 25.98211 | 18 52 35.72 | +21 42 30.9 | | Mrkos |
| 1591 | Jul. 1.97389 | 19 00 13.28 | +22 04 26.0 | 14.6 | Mrkos |
| | 1.98708 | 19 00 14.11 | +22 04 29.7 | | Mrkos |
| 1596 | 2.99725 | 19 03 08.35 | +22 04 03.2 | 14.6 | Mrkos |
| | 3.00870 | 19 03 09.28 | +22 04 04.9 | | Mrkos |
| 245 | 3.94939 | 19 04 35.90 | +22 02 19.6 | 14.4 | Mrkos |
| | 3.96084 | 19 04 36.80 | +22 02 17.3 | | Mrkos |
| 247 | 17.91726 | 19 33 47.86 | +19 00 15.1 | 11.0 | Mrkos |
| | 17.92322 | 19 33 48.77 | +19 00 05.6 | | Mrkos |

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|--------------|-------------------|-------------------|-------|----------|
| 248 | 19.88759 | 19 39 30.97 | +18 02 39.9 | 10.5 | Mrkos |
| 250 | 29.90191 | 20 17 25.43 | + 9 59 05.9 | 9.7 | Mrkos |
| | 29.90523 | 20 17 26.31 | + 9 58 51.7 | | Mrkos |
| 253 | 30.92650 | 20 22 15.93 | + 8 48 08.4 | 9.5 | Mrkos |
| | 30.92841 | 20 22 16.40 | + 8 48 00.3 | | Mrkos |
| 257 | Aug. 1.88300 | 20 32 04.34 | + 6 20 22.3 | 9.2 | Mrkos |
| | 1.88456 | 20 32 04.85 | + 6 20 15.7 | | Mrkos |
| 1613 | 3.02531 | 20 38 05.64 | + 4 46 42.9 | 9.0 | Vávrová |
| | 3.02774 | 20 38 06.39 | + 4 46 31.5 | | Vávrová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1583 | SAO 086543 | 086524 | 086604 | 086601 | 086598 | 086492 |
| 1591 | SAO 086717 | 086734 | 086771 | 086765 | 086715 | 086749 |
| 1596 | SAO 086771 | 086734 | 086803 | 086822 | 086809 | 086765 |
| 245 | SAO 086803 | 086851 | 086821 | 086822 | 086771 | |
| 247 | SAO 105005 | 104992 | 105047 | 105060 | 105052 | 105006 |
| 248 | SAO 105140 | 105130 | 105179 | 105196 | 105174 | 105163 |
| 250 | SAO 125676 | 105951 | 105973 | 105978 | 105977 | 125695 |
| 253 | SAO 125752 | 105773 | 105796 | 105800 | 105778 | 105745 |
| 257 | SAO 125981 | 125979 | 125990 | 125936 | 125940 | 125937 |
| 1613 | SAO 126134 | 126122 | 126085 | 126079 | 126099 | 126128 |

Comet Klemola 1976j

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------|--|-------------------|-------|----------|
| 1405 | Aug. 24.97595 | 23 ^h 01 ^m 48.11 ^s | +4°00'31.8" | 12.4 | Mrkos |
| | 24.98498 | 23 1 48.24 | +4 00 26.6 | | Mrkos |
| 1618 | 25.92780 | 23 1 57.04 | +3 49 47.5 | 12.4 | Mrkos |
| | 25.93862 | 23 1 57.32 | +3 49 38.8 | | Mrkos |
| 1411 | 26.91279 | 23 2 5.45 | +3 38 27.5 | 12.2 | Mrkos |
| | 26.92350 | 23 2 5.56 | +3 38 20.1 | | Mrkos |
| 1623 | 28.88409 | 23 2 20.24 | +3 14 54.4 | 12.0 | Vávrová |
| | 28.89531 | 23 2 20.28 | +3 14 45.0 | | Vávrová |
| 1625 | Sept. 13.84815 | 23 3 36.50 | -0 19 47.6 | 13.6 | Vávrová |
| 1626 | 20.96821 | 23 4 25.34 | -1 57 16.2 | 13.8 | Mrkos |
| 1627 | 23.89976 | 23 4 54.72 | -2 35 27.7 | 14.0 | Vávrová |
| | 23.91537 | 23 4 55.53 | -2 35 40.7 | | Mrkos |
| 1630 | 27.84199 | 23 5 47.75 | -3 24 8.9 | 14.4 | Mrkos |
| | 27.85628 | 23 5 47.77 | -3 24 19.0 | | Mrkos |
| 1639 | Oct. 25.80546 | 23 20 25.84 | -6 58 53.1 | 15.4 | Mrkos |
| | 25.82005 | 23 20 26.37 | -6 58 49.0 | | Mrkos |
| 1642 | 26.78116 | 23 21 13.35 | -7 01 49.3 | 15.5 | Mrkos |
| | 26.79539 | 13 21 13.86 | -7 01 43.3 | | Mrkos |
| 1646 | 27.84569 | 23 22 06.17 | -7 04 42.1 | 15.7 | Mrkos |
| | 27.86016 | 23 22 06.86 | -7 04 39.8 | | Mrkos |

Reference Stars Numbers

| | | | | | | | |
|------|-----|--------|--------|--------|--------|--------|--------|
| 1405 | SAO | 127957 | 127953 | 127921 | 127933 | 127947 | 127962 |
| 1618 | SAO | 127928 | 127940 | 127962 | 127953 | 127906 | 127904 |
| 1411 | SAO | 127928 | 127940 | 127962 | 127957 | 127947 | 127933 |
| 1623 | SAO | 127940 | 127938 | 127973 | 127985 | 127980 | 127928 |
| 1625 | SAO | 146513 | 146503 | 146479 | 127912 | 127936 | 146521 |
| 1626 | SAO | 146519 | 146553 | 146549 | 146497 | 146487 | 146507 |
| 1627 | SAO | 146507 | 146533 | 146532 | 146531 | 146478 | 146487 |
| 1630 | SAO | 146535 | 146544 | 146531 | 146531 | 146478 | 146493 |
| 1639 | SAO | 146669 | 146668 | 146671 | 146690 | 146677 | 146664 |
| 1642 | SAO | 146690 | 146703 | 146707 | 146677 | 146669 | 146668 |
| 1646 | SAO | 146690 | 146703 | 146707 | 146699 | 146687 | 146677 |

Comet WEST 1975n A

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer | |
|-----------|---------|-------------------|--|--------------|----------|-------|
| 198 | April | 1.13545 | 20 ^h 49 ^m 13.76 ^s | +13°34'23.5" | 4.5 | Mrkos |
| | | 1.13684 | 20 49 13.72 | +13 34 24.8 | | Mrkos |
| 201 | | 2.13817 | 20 48 04.95 | +13 43 58.8 | 4.7 | Mrkos |
| | | 2.13881 | 20 48 04.91 | +13 43 59.5 | | Mrkos |
| 203 | | 3.13154 | 20 46 56.82 | +13 53 20.6 | 4.9 | Mrkos |
| | | 3.13223 | 20 46 56.76 | +13 53 21.1 | | Mrkos |
| 205 | | 4.12950 | 20 45 48.48 | +14 02 39.4 | 5.0 | Mrkos |
| | | 4.13014 | 20 45 48.41 | +14 02 40.3 | | Mrkos |
| 207 | May | 2.08574 | 20 06 00.86 | +17 31 04.0 | 6.3 | Mrkos |
| | | 2.08782 | 20 05 59.65 | +17 31 07.5 | | Mrkos |
| 208 | | 3.06749 | 20 04 09.60 | +17 35 49.0 | 6.4 | Mrkos |
| | | 3.06940 | 20 04 09.37 | +17 35 50.0 | | Mrkos |
| 209 | | 5.07124 | 20 00 18.12 | +17 44 36.5 | 6.5 | Mrkos |
| | | 5.07332 | 20 00 17.90 | +17 44 37.4 | | Mrkos |
| 210 | | 6.06789 | 19 58 19.91 | +17 48 32.1 | 6.6 | Mrkos |
| | | 6.06998 | 19 58 19.67 | +17 48 32.7 | | Mrkos |
| 211 | | 7.07475 | 19 56 18.31 | +17 52 11.6 | 6.8 | Mrkos |
| | | 7.07743 | 19 56 18.02 | +17 52 12.3 | | Mrkos |
| 212 | | 8.07112 | 19 54 14.86 | +17 55 42.5 | 6.8 | Mrkos |
| | | 8.07459 | 19 54 14.42 | +17 55 42.9 | | Mrkos |
| 214 | | 9.06405 | 19 52 12.22 | +17 58 28.5 | 7.0 | Mrkos |
| | | 9.06683 | 19 52 11.60 | +17 58 31.4 | | Mrkos |
| 217 | | 24.95134 | 19 15 26.92 | +17 55 41.1 | 7.2 | Mrkos |
| | | 24.95620 | 19 15 26.17 | +17 55 42.1 | | Mrkos |
| 220 | | 28.95362 | 19 05 28.38 | +17 38 14.2 | 7.4 | Mrkos |
| | | 28.95825 | 19 05 27.64 | +17 38 15.1 | | Mrkos |
| 222 | | 29.95263 | 19 02 58.24 | +17 32 46.5 | 7.5 | Mrkos |
| | | 29.95946 | 19 02 57.17 | +17 32 49.0 | | Mrkos |
| 223 | June | 20.92394 | 18 11 07.38 | +13 55 45.7 | 8.0 | Mrkos |
| | | 20.92396 | 18 11 06.32 | +13 55 40.0 | | Mrkos |
| 1578 | | 21.96152 | 18 08 59.11 | +13 42 00.4 | 8.0 | Mrkos |

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|--------------|-------------------|-------------------|-------|----------|
| 1579 | 21.97054 | 18 08 57.80 | + 13 41 55.5 | 8.2 | Mrkos |
| | 22.91759 | 18 07 03.13 | + 13 29 07.7 | | Mrkos |
| | 22.92679 | 18 07 02.09 | + 13 29 04.7 | | Mrkos |
| 229 | 24.94310 | 18 03 04.40 | + 13 29 19.0 | 8.4 | Mrkos |
| | 24.95051 | 18 03 03.29 | + 13 29 12.5 | | Mrkos |
| 1584 | 25.93472 | 18 01 11.04 | + 12 47 26.0 | 8.6 | Mrkos |
| | 25.94352 | 18 01 09.98 | + 12 47 19.6 | | Mrkos |
| 234 | 26.94541 | 17 59 17.70 | + 12 33 13.4 | 8.8 | Mrkos |
| | 26.95281 | 17 59 16.91 | + 12 33 07.2 | | Mrkos |
| 237 | 30.93639 | 17 52 14.85 | + 11 35 52.3 | 8.9 | Mrkos |
| | 30.94715 | 17 52 13.41 | + 11 35 39.6 | | Mrkos |
| 239 | July 1.90961 | 17 50 37.43 | + 11 21 38.8 | 9.0 | Mrkos |
| | 1.92049 | 17 50 36.76 | + 11 21 29.0 | | Mrkos |
| 1396 | 30.90040 | 17 19 43.04 | + 4 28 19.8 | 12.8 | Mrkos |
| | 30.91140 | 17 19 42.75 | + 4 28 09.9 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|-----------------|--------------------|
| 198 | SAO 106581 | 106500 | 106585 | 106561 | 106538 | 106547 |
| 201 | SAO 106538 | 106547 | 106581 | 106500 | 106585 | 106561 |
| 203 | SAO 106517 | 106538 | 106556 | 106526 | 106503 | 106400 |
| 205 | SAO 106400 | 106517 | 106538 | 106526 | 106511 | 106484 |
| 207 | SAO 105719 | 105706 | 105764 | 105767 | AGK 2 + 17°2152 | |
| 208 | SAO 105675 | 105706 | 105719 | 105679 | 105654 | AGK 2 + 17°2143 |
| 209 | SAO 105574 | 105607 | 105604 | 105596 | 105569 | 105546 |
| 210 | SAO 105531 | 105534 | 105539 | 105569 | 105546 | 105516 |
| 211 | SAO 105531 | 105546 | 105516 | 105457 | 105450 | 105467 |
| 212 | SAO 105426 | 105457 | 105493 | 105467 | 105450 | 105437 |
| 214 | SAO 105426 | 105395 | 105393 | 105376 | 105412 | 105437 |
| 217 | SAO 104712 | 104721 | 104662 | 104647 | 104638 | 104693 |
| 220 | SAO 104512 | 104494 | 104446 | 104437 | 104493 | 104496 |
| 222 | SAO 104512 | 104494 | 104446 | 104437 | 104493 | 104496 |
| 223 | SAO 103499 | 103471 | 103466 | 103488 | 103508 | 103506 |
| 1578 | SAO 103467 | 103471 | 103466 | 103432 | 103428 | 103440 |
| 1579 | SAO 103467 | 103440 | 103390 | 103406 | 103404 | 103428 |
| 229 | SAO 103413 | 103384 | 103358 | 103327 | 103376 | 103405 |
| 1584 | SAO 103313 | 103327 | 103358 | 103405 | 103376 | 103314 |
| 234 | SAO 103313 | 103314 | 103280 | 103272 | 103273 | 103303 |
| 237 | SAO 103194 | 103164 | 103173 | 103186 | 103216 | 103212 |
| 239 | SAO 103212 | 103194 | 103181 | 103145 | 103157 | 103164 |
| 1396 | SAO 122314 | 122300 | 122306 | 122307 | 122325 | AGK 2 + 4°3406 |

Comet WEST 1975n B

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|--|-------------------|-------|----------|
| 203 | April 3.13154 | 20 ^h 46 ^m 54.86 ^s | +13°53'35.2" | 4.9 | Mrkos |
| | | 20 46 55.80 | +13 53 36.9 | | Mrkos |
| 217 | May 24.95134 | 19 15 23.72 | +17 56 03.0 | 7.2 | Mrkos |
| | | 24.95620 | +17 56 04.4 | | Mrkos |
| 229 | June 24.94310 | 18 03 02.06 | +13 01 42.2 | 8.4 | Mrkos |
| | | 24.95051 | +13 01 35.1 | | Mrkos |
| 1396 | July 30.90040 | 17 19 41.74 | + 4 28 44.0 | 12.8 | Mrkos |
| | | 30.91140 | + 4 28 36.7 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|------------------|
| 203 | SAO 106517 | 106538 | 106556 | 106526 | 106503 | 106490 |
| 217 | SAO 104712 | 104721 | 104662 | 104647 | 104638 | 104693 |
| 229 | SAO 103413 | 103384 | 103358 | 103327 | 103376 | 103405 |
| 1396 | SAO 122314 | 122300 | 122306 | 122307 | 122325 | AGK 2 +4°3406 |

Comet West 1975n D

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|--|-------------------|-------|----------|
| 203 | April 3.13154 | 20 ^h 46 ^m 56.45 ^s | +13°53'28.2" | 4.9 | Mrkos |
| | | 20 46 56.37 | +13 53 29.0 | | Mrkos |
| 207 | May 2.08574 | 20 05 59.91 | +17 31 16.0 | 6.3 | Mrkos |
| | | 2.08782 | +17 31 17.6 | | Mrkos |
| 208 | 3.06749 | 20 04 08.69 | +17 36 01.3 | 6.4 | Mrkos |
| | | 3.06940 | +17 36 06.2 | | Mrkos |
| 209 | 5.07124 | 20 00 17.07 | +17 44 48.6 | 6.5 | Mrkos |
| | | 5.07332 | +17 44 49.0 | | Mrkos |
| 210 | 6.06789 | 19 58 18.78 | +17 48 44.3 | 6.6 | Mrkos |
| | | 6.06998 | +17 48 44.1 | | Mrkos |
| 211 | 7.07475 | 19 56 17.30 | +17 52 24.3 | 6.8 | Mrkos |
| | | 7.07743 | +17 52 24.6 | | Mrkos |
| 212 | 8.07112 | 19 54 15.95 | +17 55 31.5 | 6.8 | Mrkos |
| | | 8.07459 | +17 55 31.5 | | Mrkos |
| 214 | 9.06405 | 19 52 11.06 | +17 58 39.7 | 7.0 | Mrkos |
| | | 9.06683 | +17 58 41.3 | | Mrkos |
| 217 | 24.95134 | 19 15 25.53 | +17 55 52.6 | 7.2 | Mrkos |
| | | 24.95620 | +17 55 53.8 | | Mrkos |
| 220 | 28.95362 | 19 05 27.06 | +17 38 24.8 | 7.4 | Mrkos |
| | | 28.95825 | +17 38 26.8 | | Mrkos |
| 222 | 29.95263 | 19 02 56.88 | +17 32 58.9 | 7.5 | Mrkos |
| | | 29.95946 | +17 33 00.1 | | Mrkos |
| 229 | June 24.94310 | 18 03 03.27 | +13 01 30.3 | 8.4 | Mrkos |
| | | 24.95051 | +13 01 25.1 | | Mrkos |
| 1396 | July 30.90040 | 17 19 42.34 | + 4 28 32.5 | 12.8 | Mrkos |
| | | 30.91140 | + 4 28 22.9 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|-----------------|--------|--------|--------|-----------------|-------------------|
| 203 | SAO 106517 | 106538 | 106526 | 106556 | 106503 | 106400 |
| 207 | SAO 105719 | 105706 | 105764 | 105767 | AGK 2 + 17°2152 | |
| | AGK 2 + 17°2143 | | | | | |
| 208 | SAO 105675 | 105706 | 105719 | 105679 | 105654 | AGK 2 +17°2143 |
| 209 | SAO 105574 | 105607 | 105604 | 105596 | 105569 | 105546 |
| 210 | SAO 105531 | 105534 | 105539 | 105569 | 105546 | 105516 |
| 211 | SAO 105531 | 105546 | 105516 | 105457 | 105450 | 105467 |
| 212 | SAO 105426 | 105457 | 105493 | 105467 | 105450 | 105437 |
| 214 | SAO 105426 | 105395 | 105393 | 105376 | 105412 | 105437 |
| 217 | SAO 104712 | 104721 | 104662 | 104647 | 104638 | 104693 |
| 220 | SAO 104512 | 104494 | 104446 | 104437 | 104493 | 104496 |
| 222 | SAO 104512 | 104494 | 104446 | 104437 | 104493 | 104496 |
| 229 | SAO 103413 | 103384 | 103358 | 103327 | 103376 | 103405 |
| 1396 | SAO 122314 | 122300 | 122306 | 122307 | 122325 | AGK 2 +4°3406 |

P/Schwassmann - Wachmann 1

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|---|-------------------|-------|----------|
| 1641 | Oct. 25.87282 | 3 ^h 15 ^m 16.08 ^s | +29°27'58.4" | 10.8 | Mrkos |
| | 25.88845 | 3 15 15.62 | +29 27 57.8 | | Mrkos |
| 1644 | 26.85095 | 3 14 47.49 | +29 26 57.0 | 11.0 | Mrkos |
| | 26.86970 | 3 14 47.22 | +29 26 56.2 | | Mrkos |
| 1648 | 27.90790 | 3 14 16.26 | +29 25 42.6 | 11.4 | Mrkos |
| | 27.92527 | 3 14 15.77 | +29 25 41.6 | | Mrkos |
| 1654 | Dec. 19.81321 | 2 49 46.00 | +27 22 24.5 | 12.7 | Mrkos |
| | 19.82756 | 2 49 45.88 | +27 22 23.4 | | Mrkos |
| 1657 | 20.77826 | 2 49 30.48 | +27 19 51.3 | 12.7 | Mrkos |
| | 20.78914 | 2 49 30.26 | +27 19 50.5 | | Mrkos |
| 1660 | 21.71711 | 2 49 16.18 | +27 17 25.0 | 12.9 | Mrkos |
| | 21.73134 | 2 49 15.82 | +27 17 23.0 | | Mrkos |
| 1664 | 22.77201 | 2 49 0.34 | +27 14 36.7 | 12.7 | Mrkos |
| | 22.78347 | 2 49 0.12 | +27 14 35.8 | | Mrkos |
| 1666 | 25.74153 | 2 48 21.00 | +27 6 58.1 | 12.9 | Mrkos |
| 1667 | 27.75478 | 2 47 57.75 | +27 2 1.1 | 13.0 | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1641 | SAO 075844 | 075878 | 075826 | 075904 | 075872 | 056334 |
| 1644 | SAO 075802 | 075811 | 075878 | 075904 | 075872 | 056334 |
| 1648 | SAO 075802 | 075811 | 075878 | 075904 | 075872 | 056334 |
| 1654 | SAO 075619 | 075640 | 075631 | 075617 | 075605 | 075609 |
| 1657 | SAO 075640 | 075631 | 075617 | 075595 | 075594 | 075609 |
| 1660 | SAO 075640 | 075631 | 075617 | 075595 | 075594 | 075609 |
| 1664 | SAO 075640 | 075631 | 075617 | 075595 | 075594 | 075609 |
| 1666 | SAO 075605 | 075619 | 075595 | 075580 | 075594 | 075609 |
| 1667 | SAO 075605 | 075619 | 075595 | 075580 | 075694 | 075609 |

Asteroid 944 Hidalgo

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|---|-------------------|-------|----------|
| 1936 | Oct. 22.85628 | 1 ^h 23 ^m 57.91 ^s | +21°02'29.2" | 13.0 | Vávrová |
| | | 22.86630 | +21 02 38.1 | | Vávrová |
| 1640 | 25.84331 | 1 18 16.87 | +21 47 4.0 | | Vávrová |
| | | 25.85164 | +21 47 15.5 | | Vávrová |
| 1645 | 26.90552 | 1 16 14.85 | +22 02 34.7 | 12.8 | Vávrová |
| | | 26.90940 | +22 02 38.9 | | Vávrová |
| 1647 | 27.87958 | 1 14 23.06 | +22 16 39.7 | 13.0 | Vávrová |
| | | 27.88468 | +22 16 46.6 | | Vávrová |
| 1656 | Dec. 20.73747 | 0 14 16.74 | +31 59 39.0 | 15.0 | Mrkos |
| | | 20.74858 | +31 59 44.9 | | Mrkos |
| 1661 | 21.77491 | 0 14 19.59 | +32 9 53.4 | 15.2 | Mrkos |
| | | 21.78775 | +32 10 1.0 | | Mrkos |
| 1663 | 22.73255 | 0 14 25.03 | +32 19 28.6 | 15.2 | Mrkos |
| | | 22.74441 | +32 19 34.7 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1636 | SAO 074723 | 074695 | 074676 | 074750 | 074706 | 074743 |
| 1640 | SAO 074658 | 074631 | 074608 | 074645 | 074656 | 074669 |
| 1645 | SAO 074635 | 074631 | 074645 | 074645 | 074669 | 074658 |
| 1647 | SAO 074613 | 074635 | 074631 | 074608 | 074589 | 074597 |
| 1656 | SAO 053746 | 053747 | 053784 | 053815 | 053807 | 053822 |
| 1661 | SAO 053746 | 053747 | 053784 | 053807 | 053815 | 053822 |
| 1663 | SAO 053746 | 053747 | 053784 | 053807 | 053815 | 053822 |

Asteroid 661 Cloelia

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------|---|-------------------|-------|------------|
| 1521 | Febr. 28.89718 | 9 ^h 32 ^m 01.70 ^s | +17°04'14.9" | 14.4 | Hoštičková |
| | | 28.91245 | +17 04 15.6 | | Hoštičková |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1521 | SAO 098681 | 098684 | 098666 | 098601 | 098625 | 098637 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid MIMOZA 1079

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------|---|-------------------|-------|------------|
| 1521 | Febr. 28.89718 | 9 ^h 27 ^m 48.26 ^s | +15°04'48.5" | 15.7 | Hoštičková |
| | | 28.91245 | +15 04 54.0 | | Hoštičková |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1521 | SAO 098630 | 098634 | 098611 | 098590 | 098570 | 098572 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 29 Amphitrite

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------------|
| 1521 | Febr. 28.89718 28.91245 | 9 ^h 33 ^m 34.92 ^s 9 33 34.16 | +19°32'04.6" +19 32 06.1 | 10.2 | Hoštičková Hoštičková |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|------------------|------------------|
| 1521 | SAO 080918 | 098672 | 098685 | 098640 | AGK 2 +18°988 | AGK 2 +18°985 |
|------|------------|--------|--------|--------|------------------|------------------|

Asteroid 84 Klio

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1516 | Febr. 27.90006 27.91534 | 9 ^h 03 ^m 07.47 ^s 9 03 06.58 | +18°20'26.3" +18 20 28.7 | 13.9 | Landová Landová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|------------------|
| 1516 | SAO 098369 | 098369 | 098351 | 098329 | 098335 | AGK 2 +17°988 |
|------|------------|--------|--------|--------|--------|------------------|

Asteroid 183 ISTRIA

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1516 | Febr. 27.90006 27.91534 | 9 ^h 05 ^m 39.87 ^s 9 05 39.28 | +17°16'02.6" +17 16 14.5 | 13.8 | Landová Landová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1516 | SAO 098414 | 098407 | 098384 | 098376 | 098389 | 098399 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 516 AMHERSTIA

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1516 | Febr. 27.90006 27.91534 | 9 ^h 16 ^m 27.04 ^s 9 16 25.98 | +17°26'57.3" +17 26 50.9 | 12.3 | Landová Landová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1516 | SAO 098482 | 098479 | 098483 | 098490 | 098511 | 098513 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 684 HILDBURG

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1516 | Febr. 27.90006 27.91534 | 9 ^h 17 ^m 53.75 ^s 9 17 52.76 | +17°34'14.9" +17 34 13.9 | 15.0 | Landová Landová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1516 | SAO 098529 | 098511 | 098490 | 098483 | 098479 | 098513 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 172 BAUCIS

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1516 | Febr. 27.90006 27.91534 | 9 ^h 18 ^m 29.24 ^s 9 18 28.41 | +17°47'55.9" +17 47 54.9 | 12.9 | Landová Landová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1516 | SAO 098534 | 098493 | 098479 | 098483 | 098511 | 098529 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 221 EOS

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1516 | Febr. 27.90006 27.91534 | 9 ^h 08 ^m 53.31 ^s 9 08 52.73 | +16°19'22.1" +16 19 27.5 | 13.3 | Landová Landová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1516 | SAO 098426 | 098407 | 098384 | 098393 | 098412 | 098448 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 211 IZOLDA

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|----------------------------|---|-----------------------------|-------|--------------------|
| 1509 | Febr. 23.82187 23.83750 | 7 ^h 56 ^m 11.13 ^s 7 56 10.53 | +16°36'25.2" +16 36 27.4 | 124 | Vávrová Vávrová |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|--------|
| 1509 | SAO 097470 | 097431 | 097388 | 097391 | 097435 | 097476 |
|------|------------|--------|--------|--------|--------|--------|

Asteroid 1832

| Plate No. | 1976 UT | α (1950.0) | δ (1950.0) | m_1 | Observer |
|-----------|---------------|---|-------------------|-------|----------|
| 1447 | Dec. 20.82178 | 6 ^h 26 ^m 17.69 ^s | +34°39'48.2" | 16.4 | Mrkos |
| | 20.83608 | 6 26 16.78 | +34 39 46.2 | | Mrkos |
| 1450 | 21.81495 | 6 25 15.44 | +34 36 52.1 | 16.6 | Mrkos |
| | 21.82925 | 6 25 14.55 | +34 36 49.5 | | Mrkos |

Reference Stars Numbers

| | | | | | | |
|------|------------|--------|--------|--------|--------|-------------------|
| 1447 | SAO 059121 | 059140 | 059101 | 059153 | 059129 | 059084 |
| 1450 | SAO 059083 | 059121 | 059129 | 059101 | 059084 | AGK 2 + 34°699 |