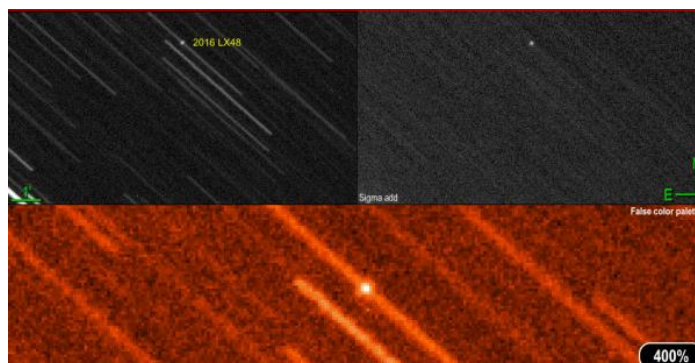




“ASSOCIAZIONE ASTRONOMICA G. MONTANARI”
OSSERVATORIO ASTRONOMIC DI CAVEZZO – (IAU code 107)
Via per Concordia n°200 - 41032 Cavezzo (MO) - Italy
(IAU code 107) - www.astrocavezzo.it

SINTESI DELL’ATTIVITA’ ASTROMETRICA (COMETE E ASTEROIDI)

- 2017-



ASSOCIAZIONE ASTRONOMICA “G. MONTANARI”
via per Concordia 200 - 41032 Cavezzo (MO) - Italy
lat. 44°51'57" N - long. 11°00'11" E

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COMETE MISURATE

| <i>Designazione</i> | | <i>N° Posizioni</i> |
|---------------------|---|---------------------|
| 2P | <i>Encke</i> | 6 |
| 29P | <i>Schwassmann – Wachmann</i> | 17 |
| 41P | <i>Tuttle – Giacobini – Kresak</i> | 76 |
| 43P | <i>Wolf – Harrington</i> | 3 |
| 45P | <i>Honda – Mrkos – Pajdusakova</i> | 21 |
| 47P | <i>Ashbrook – Jackson</i> | 4 |
| 56P | <i>Slaughter-Burnham</i> | 3 |
| 65P | <i>Gunn</i> | 3 |
| 71P | <i>Clark</i> | 9 |
| 74P | <i>Smirnova - Chernykh</i> | 9 |
| 93P | <i>Lovas</i> | 4 |
| 94P | <i>Russell</i> | 3 |
| 213P | <i>Van Ness</i> | 7 |
| 226P | <i>Pigott – LINEAR – Kowalski</i> | 3 |
| 315P | <i>Loneos</i> | 29 |
| C/2010 U3 | <i>Boattini</i> | 2 |
| C/2015 ER61 | <i>PanSTARRS</i> | 7 |
| C/2015 O1 | <i>PanSTARRS</i> | 4 |
| C/2015 V1 | <i>PanSTARRS</i> | 3 |
| C/2015 V2 | <i>Jhonson</i> | 62 |
| C/2015 VL62 | <i>Lemmon - Yeung - PanSTARRS</i> | 7 |
| C/2016 M1 | <i>PanSTARRS</i> | 9 |
| C/2016 N4 | <i>MASTER</i> | 2 |
| C/2016 N6 | <i>PanSTARRS</i> | 3 |
| C/2017 E4 | <i>Lovejoy</i> | 4 |
| C/2017 M4 | <i>ATLAS</i> | 3 |
| C/2017 O1 | <i>ASASSN1</i> | 11 |
| C/2017 D2 | <i>Barros</i> | 5 |
| C/2017 T3 | <i>ATLAS</i> <i>PCCP</i> | 3 |

Comete osservate: 29

ASTEROIDI MISURATI

| <i>Designazione</i> | <i>Designazione alternativa</i> | <i>N° Pos.</i> | <i>Orbit Type (1)</i> |
|---------------------|---------------------------------|----------------|-------------------------|
| 1627 | <i>1929 SH</i> | 3 | <i>NEA: Amor</i> |
| 2102 | <i>1975 YA</i> | 4 | <i>NEA: Apollo PHA*</i> |
| 2329 | <i>1976 WA</i> | 6 | <i>NEA: Apollo</i> |
| 2364 | <i>1978 GD</i> | 3 | <i>MB</i> |
| 2829 | <i>1948 PK</i> | 3 | <i>MB</i> |
| 3103 | <i>1982 BB</i> | 6 | <i>NEA: Apollo</i> |

| | | | |
|-------|------------|----|------------------|
| 4121 | 1986 JH | 3 | MB |
| 4179 | 1989 AC | 8 | NEA: Apollo PHA* |
| 5131 | 1990 BG | 3 | NEA: Apollo |
| 5604 | 1992 FE | 4 | NEA: Aten PHA* |
| 5653 | 1992 WD5 | 3 | NEA: Amor |
| 5693 | 1993 EA | 12 | NEA: Apollo PHA* |
| 5927 | 1938 HA | 2 | MB |
| 6053 | 1993 BW | 4 | NEA: Amor |
| 6739 | 1993 FU38 | 2 | MB |
| 9036 | 1990 SJ16 | 2 | MB |
| 9420 | 1995 XP4 | 3 | MB |
| 10216 | 1997 SN3 | 3 | MB |
| 10636 | 1998 QK56 | 8 | NEA: Apollo |
| 11398 | 1998 YP11 | 22 | NEA: Amor |
| 12920 | 1999 VM15 | 3 | Hilda |
| 13145 | 1995 DZ1 | 2 | MB |
| 22494 | 1997 JL | 3 | MB |
| 17039 | 1999 FN26 | 4 | MB |
| 17846 | 1996 RS26 | 2 | MB |
| 25401 | 1999 VY24 | 3 | MB |
| 25451 | 1991 PP91 | 3 | MB |
| 25715 | 2000 AY162 | 3 | MB |
| 26096 | 1988 SD3 | 3 | MB |
| 27451 | 2000 GE20 | 3 | MB |
| 16231 | 2000 ES30 | 3 | MB |
| 17296 | 3541 P-L | 3 | MB |
| 28190 | 1998 W23 | 3 | MB |
| 30598 | 2001 QA117 | 2 | MB |
| 30845 | 1999 FF44 | 3 | MB |
| 31993 | 2000 HL37 | 3 | MB |
| 33126 | 2000 QF98 | 3 | MB |
| 35062 | 1988 EP | 3 | MB |
| 37391 | 2001 XB | 3 | MB |
| 40267 | 1999 GJ4 | 8 | NEA: Apollo |
| 42215 | 2001 DO52 | 3 | MB |
| 42344 | 2002 AT90 | 3 | MB |
| 43133 | 1999 XK76 | 3 | MB |
| 48986 | 1998 QJ47 | 3 | MB |
| 49745 | 1999 VM153 | 3 | MB |
| 53760 | 2001 QK52 | 3 | MB |
| 54789 | 2001 MZ7 | 17 | NEA: Amor |
| 55118 | 2001 QC166 | 3 | MB |
| 55581 | 2002 NH | 3 | MB |
| 56054 | 1998 XR52 | 3 | MB |
| 66391 | 1999 KW4 | 4 | NEA: Aten |
| 67846 | 2000 WU5 | 3 | MB |
| 69372 | 1999 XH195 | 3 | MB |
| 71312 | 2000 AT75 | 3 | MB |
| 74525 | 2002 VU20 | 2 | MB |

| | | | |
|------------|------------|----|------------------|
| 75853 | 2000 CC3 | 4 | MB |
| 85990 | 1999 JV6 | 3 | NEA: Apollo PHA* |
| 88796 | 2001 SB116 | 3 | MB |
| 90075 | 2002 VU84 | 8 | NEA: Apollo PHA* |
| 91675 | 1999 TA115 | 3 | MB |
| 95345 | 2001 QB86 | 3 | Hungaria |
| 94379 | 2001 SY68 | 3 | MB |
| 96590 | 1998 XB | 3 | NEA: Aten |
| 98650 | 2000 WM140 | 2 | MB |
| 102149 | 1999 RH117 | 3 | MB |
| 103830 | 2000 DL27 | 2 | MB |
| 114259 | 2004 CL72 | 2 | MB |
| 122281 | 2000 PS12 | 3 | MB |
| 123805 | 2001 BZ60 | 3 | Hungaria |
| 127257 | 1999 TZ168 | 3 | MB |
| 134331 | 3139 T-3 | 3 | MB |
| 136108 | 2003 EL61 | 4 | TNO: Haumea |
| 136472 | 2005 FY9 | 4 | TNO: Makemake |
| 138155 | 2000 ES70 | 3 | NEA: Amor |
| 138736 | 2001 YE21 | 3 | MB |
| 138846 | 2000 VJ61 | 6 | NEA: Apollo |
| 138859 | 2000 WN63 | 3 | NEA: Apollo |
| 138925 | 2001 AU43 | 4 | NEA: Amor |
| 142561 | 2002 TX68 | 4 | NEA: Amor |
| 143404 | 2003 BD44 | 12 | NEA: Apollo PHA* |
| 145888 | 2004 RC165 | 3 | MB |
| 163696 | 2003 EB50 | 4 | NEA: Apollo |
| 176303 | 2004 FT154 | 3 | MB |
| 190166 | 2005 UP156 | 8 | NEA: Amor |
| 192017 | 2005 YB77 | 3 | MB |
| 203471 | 2002 AU4 | 6 | NEA: Aten |
| 204724 | 2006 HU7 | 2 | MB |
| 205534 | 2001 SJ151 | 2 | MB |
| 215588 | 2003 HF2 | 7 | NEA: Apollo PHA* |
| 217229 | 2003 AJ86 | 3 | MB |
| 220124 | 2002 TE66 | 4 | NEA: Apollo |
| 222073 | 1999 HY1 | 7 | NEA: Amor |
| 252091 | 2000 UP30 | 7 | NEA: Apollo |
| 293749 | 2007 RE56 | 3 | MB |
| 294739 | 2008 CM | 4 | NEA: Apollo PHA* |
| 326683 | 2002 WP | 3 | NEA: Amor |
| 329774 | 2004 LE | 3 | NEA: Apollo |
| 334481 | 2002 QM6 | 3 | Hungaria |
| 370307 | 2002 RH52 | 4 | NEA: Amor |
| 443103 | 2013 WT67 | 4 | NEA: Apollo PHA* |
| 457175 (1) | 2008 GO98 | 5 | Hylde |
| 474179 | 1999 VS6 | 3 | NEA: Apollo |
| 474231 | 2001 HZ7 | 10 | NEA: Apollo PHA* |
| 480858 | 2001 PT9 | 4 | NEA: Apollo PHA* |

| | | | | |
|--------|------------|--------|------------------|------------------|
| 484795 | 2009 DE47 | 4 | NEA: Apollo | |
| 494706 | 2005 GL9 | 11 | NEA: Apollo | |
| 496005 | 2007 XJ16 | 4 | NEA: Amor PHA | |
| | 2000 CE59 | 3 | NEA: Apollo PHA* | |
| | 2001 QE34 | 4 | NEA: Apollo | |
| | 2005 TF | 3 | NEA: Amor | |
| | 2008 MH1 | 4 | NEA: Amor | |
| | 2011 ED78 | 3 | NEA: Amor | |
| | 2011 WO41 | 11 | NEA: Apollo PHA* | |
| | 2013 YK148 | 4 | NEA: Apollo | |
| | 2014 AD17 | 7 | NEA: Amor | |
| | 2014 EW24 | 4 | NEA: Apollo | |
| | 2014 KF91 | 4 | NEA: Amor | |
| | 2014 YC15 | 8 | NEA: Amor | |
| | 2014 SR339 | 4 | NEA: Apollo PHA* | |
| | 2016 NL15 | 3 | NEA: Apollo | |
| | 2016 UU80 | 5 | NEA: Amor | |
| | 2017 AC5 | 4 | NEA: Amor | |
| | 2017 AG5 | NEOCP | 7 | NEA: Apollo |
| | 2017 AF5 | NEOCP | 3 | NEA: Apollo |
| | 2017 BQ6 | 3 | NEA: Apollo PHA* | |
| | 2017 BZ30 | NEOCP* | 3 | Mars Crosser |
| | 2017 BM123 | 3 | NEA: Apollo | |
| | 2017 BM31 | 7 | NEA: Apollo | |
| | 2017 BY93 | 4 | NEA: Apollo | |
| | 2017 CP1 | 4 | NEA: Apollo | |
| | 2017 CR32 | 3 | NEA: Amor | |
| | 2017 CS | 10 | NEA: Amor PHA* | |
| | 2017 DC36 | 4 | NEA: Aten | |
| | 2017 FH101 | 3 | NEA: Apollo | |
| | 2017 FP128 | NEOCP | 2 | NEA: Apollo |
| | 2017 GM4 | 3 | NEA: Apollo PHA* | |
| | 2017 GB8 | NEOCP | 3 | NEA: Apollo |
| | 2017 HU2 | NEOCP | 3 | NEA: Aten |
| | 2017 HU49 | NEOCP | 3 | NEA: Aten |
| | 2017 KR27 | NEOCP | 3 | NEA: Apollo |
| | 2017 MB1 | 4 | NEA: Apollo PHA* | |
| | 2017 MC4 | 3 | NEA: Apollo PHA* | |
| | 2017 MZ4 | 3 | TNO | |
| | 2017 NB | NEOCP | 3 | NEA: Apollo |
| | 2017 NH | NEOCP | 7 | NEA: Apollo PHA* |
| | 2017 NM6 | NEOCP | 9 | NEA: Amor PHA* |
| | 2017 OD | NEOCP | 4 | NEA: Amor |
| | 2017 OL1 | NEOCP | 3 | NEA: Apollo PHA* |
| | 2017 OH7 | NEOCP | 3 | NEA: Amor |
| | 2017 OT18 | 2 | NEA: Amor | |
| | 2017 OP26 | 4 | NEA: Amor | |
| | 2017 PE25 | NEOCP | 2 | Mars Crosser |
| | 2017 PS25 | NEOCP | 6 | NEA: Amor |

| | | | | |
|--|-----------|-------|---|------------------|
| | 2017 PL26 | NEOCP | 3 | NEA: Apollo |
| | 2017 PJ26 | | 4 | NEA: Amor |
| | 2017 PU25 | NEOCP | 4 | NEA: Amor |
| | 2017 PT25 | NEOCP | 4 | NEA: Apollo |
| | 2017 PV25 | NEOCP | 4 | NEA: Apollo |
| | 2017 PY26 | NEOCP | 3 | NEA: Apollo |
| | 2017 QS16 | NEOCP | 2 | NEA: Apollo |
| | 2017 QR17 | NEOCP | 3 | NEA: Amor |
| | 2017 QS17 | NEOCP | 3 | NEA: Apollo |
| | 2017 RR15 | | 5 | NEA: Apollo PHA* |
| | 2017 TG2 | NEOCP | 3 | NEA: Apollo PHA* |
| | 2017 TK1 | | 3 | NEA: Apollo PHA* |
| | 2017 TK2 | NEOCP | 4 | NEA: Apollo |
| | 2017 TJ2 | NEOCP | 3 | NEA: Amor |
| | 2017 TR1 | NEOCP | 3 | NEA: Amor |
| | 2017 TU1 | NEOCP | 3 | NEA: Aten |
| | 2017 UE3 | NEOCP | 3 | NEA: Apollo |
| | 2017 UE4 | NEOCP | 3 | MB |

Asteroidi osservati: 172

(1) – Cometary Activity in (457175) - 2008 GO98

CONFERME NEOCP

| | <u>Designazione</u> | <u>N° MPEC</u> | |
|----|---------------------|----------------------|--------------------------------------|
| 1 | YA8793D | K17A05G = 2017 AG5 | <u>MPEC 2017-A50</u> |
| 2 | A101B0b | K17A05F = 2017 AF5 | <u>MPEC 2017-A53</u> |
| 3 | YD1C5F5 | K17B30Z = 2017 BZ30* | <i>No NEO: Mars Crosser</i> |
| 4 | YF34516 | K17FC8P = 2017 FP128 | <u>MPEC 2017-G20</u> |
| 5 | YGB4024 | K17G08B = 2017 GB8 | <u>MPEC 2017-H11</u> |
| 6 | YH3A14A | K17H02U = 2017 HU2 | <u>MPEC 2017-H54</u> |
| 7 | YH84B17 | K17H49U = 2017 HU49 | <u>MPEC 2017-J27</u> |
| 8 | X50504 | K17K27R = 2017 KR27 | <u>MPEC 2017-K70</u> |
| 9 | YN149N8 | K17N00B = 2017 NB | <u>MPEC 2017-N43</u> |
| 10 | A102Pue | K17N00H = 2017 NH | <u>MPEC 2017-N51</u> |
| 11 | P10B0va | K17N06M = 2017 NM6 | <u>MPEC 2017-O09</u> |
| 12 | A1030no | K17000D = 2017 OD | <u>MPEC 2017-O24</u> |
| 13 | A10321j | K17001L = 2017 OL1 | <u>MPEC 2017-O46</u> |
| 14 | A1034sM | K17007H = 2017 OH7 | <u>MPEC 2017-O61</u> |
| 15 | A103jz1 | K17P25S = 2017 PS25 | <u>MPEC 2017-Q05</u> |
| 16 | A103jz2 | K17P25E = 2017 PE25 | <i>No NEO: Mars Crosser</i> |
| 17 | A103nSL | K17P26L = 2017 PL26 | <u>MPEC 2017-Q17</u> |
| 18 | A103mM6 | K17P25U = 2017 PU25 | <u>MPEC 2017-Q07</u> |
| 19 | A103nTh | K17P25V = 2017 PV25 | <u>MPEC 2017-Q08</u> |
| 20 | A103nTb | K17P25T = 2017 PT25 | <u>MPEC 2017-Q06</u> |

| | | | |
|----|---------|---------------------|---------------------------------------|
| 21 | A103nTg | K17P26Y = 2017 PY26 | <u>MPEC 2017-Q43</u> |
| 22 | A103wzq | K17Q16S = 2017 QS16 | <u>MPEC 2017-Q97</u> |
| 23 | P10cjB9 | K17Q17R = 2017 QR17 | <u>MPEC 2017-Q121</u> |
| 24 | X51568 | K17Q17S = 2017 QS17 | <u>MPEC 2017-Q122</u> |
| 25 | YT24660 | K17T02J = 2017 TJ2 | <u>MPEC 2017-T54</u> |
| 26 | YT23AA8 | K17T02G = 2017 TG2 | <u>MPEC 2017-T52</u> |
| 27 | A104p1Q | K17T01R = 2017 TR1 | <u>MPEC 2017-T44</u> |
| 28 | YT2461E | K17T02K = 2017 TK2 | <u>MPEC 2017-T55</u> |
| 29 | YT252D2 | K17T01U = 2017 TU1 | <u>MPEC 2017-T47</u> |
| 30 | YU932A2 | K17U03E = 2017 UE3 | <u>MPEC 2017-U173</u> |
| 31 | YU3888E | K17U04E = 2017 UE4 | <u>No NEO: Main Belt</u> |
| 32 | A104vfJ | K17T030 = C/2017 T3 | <u>MPEC 2017-U238</u> |

Observer: Mauro Facchini, Roberto Bonomi, Paolo Negrelli, Dario Caiumi, Daniele Losi, Giulio Corradini

Measures: Roberto Bonomi, Paolo Negrelli

STRUMENTAZIONE

| Telescopio – Rap. F | configurazione | Montatura |
|---------------------------|----------------|-----------------------|
| 0,40 m – f 5/5 | Newton | Equatoriale |
| CCD | FOV (°) | Risoluzione ("/pixel) |
| SBIG 8300 | 28 x 21 | 1,511 arcsec/pixel |
| Filtri Fotometrici | | |
| VBR Jhonson Cousin, 647nm | | |

CATALOGHI UTILIZZATI:

- USNO B 1.0
- UCAC 3
- UCAC 4
- CMC 14
- GAIA DR1

POSIZIONI INVIATE AL MINOR PLANET CENTER - PUBBLICAZIONI

- 2017 -

http://www.minorplanetcenter.net/iau/ECS/MPCArchive/MPCArchive_TBL.html

MPC 102261-103028

2017-01-12

| | | | | | | | | | | | | | |
|-------------|-------|------|----------|----------|----|-------|-------|-----|------|------|------|-----|-----|
| 45P | | 2017 | 01 | 01.70351 | 21 | 00 | 54.25 | -18 | 39 | 28.4 | 11.5 | N | 107 |
| 45P | | 2017 | 01 | 01.71098 | 21 | 00 | 55.10 | -18 | 39 | 21.4 | 11.1 | N | 107 |
| 45P | | 2017 | 01 | 01.71850 | 21 | 00 | 56.00 | -18 | 39 | 12.6 | 11.9 | N | 107 |
| C/2015 V1 | K2017 | 01 | 01.83855 | 02 | 08 | 26.81 | +48 | 58 | 40.0 | 16.9 | N | 107 | |
| C/2015 V1 | K2017 | 01 | 01.85354 | 02 | 08 | 26.03 | +48 | 58 | 27.2 | 16.9 | N | 107 | |
| C/2015 V1 | K2017 | 01 | 01.86926 | 02 | 08 | 25.11 | +48 | 58 | 13.3 | 17.0 | N | 107 | |
| C/2015 VL62 | K2017 | 01 | 01.76967 | 00 | 18 | 26.01 | +17 | 04 | 59.0 | 17.2 | N | 107 | |
| C/2015 VL62 | K2017 | 01 | 01.78538 | 00 | 18 | 25.37 | +17 | 04 | 50.8 | 17.0 | N | 107 | |
| C/2015 VL62 | K2017 | 01 | 01.80038 | 00 | 18 | 24.77 | +17 | 04 | 43.3 | 17.2 | N | 107 | |
| 2P | K2017 | 01 | 03.75649 | 23 | 04 | 06.03 | +04 | 13 | 18.6 | 17.6 | N | 107 | |
| 2P | K2017 | 01 | 03.78089 | 23 | 04 | 07.22 | +04 | 13 | 22.1 | 17.9 | N | 107 | |
| 2P | K2017 | 01 | 03.80530 | 23 | 04 | 08.35 | +04 | 13 | 24.9 | 18.3 | N | 107 | |
| 192017 | K2017 | 01 | 03.88127 | 07 | 10 | 09.99 | +26 | 49 | 33.6 | 19.0 | R | 107 | |
| 192017 | K2017 | 01 | 03.89635 | 07 | 10 | 09.12 | +26 | 49 | 31.4 | 18.7 | R | 107 | |
| 192017 | K2017 | 01 | 03.91214 | 07 | 10 | 08.15 | +26 | 49 | 29.2 | 18.7 | R | 107 | |
| 74P | K2017 | 01 | 03.88127 | 07 | 10 | 21.78 | +26 | 43 | 55.0 | 16.3 | N | 107 | |
| 74P | K2017 | 01 | 03.89635 | 07 | 10 | 21.14 | +26 | 43 | 57.9 | 17.2 | N | 107 | |
| 74P | K2017 | 01 | 03.90999 | 07 | 10 | 20.46 | +26 | 43 | 59.2 | 17.2 | N | 107 | |
| 56054 | K2017 | 01 | 03.87769 | 07 | 11 | 19.51 | +26 | 50 | 10.2 | 17.3 | R | 107 | |
| 56054 | K2017 | 01 | 03.90353 | 07 | 11 | 17.78 | +26 | 50 | 19.0 | 16.5 | R | 107 | |
| 56054 | K2017 | 01 | 03.91573 | 07 | 11 | 16.89 | +26 | 50 | 23.7 | 17.2 | R | 107 | |
| 226P | K2017 | 01 | 03.82985 | 03 | 04 | 06.37 | +58 | 49 | 15.9 | 17.4 | N | 107 | |
| 226P | K2017 | 01 | 03.84420 | 03 | 04 | 05.34 | +58 | 49 | 17.3 | 17.3 | N | 107 | |
| 226P | K2017 | 01 | 03.86143 | 03 | 04 | 04.11 | +58 | 49 | 19.1 | 17.2 | N | 107 | |
| 4179 | K2017 | 01 | 03.70494 | 01 | 37 | 43.70 | +09 | 01 | 54.2 | 15.4 | R | 107 | |
| 4179 | K2017 | 01 | 03.70726 | 01 | 37 | 44.90 | +09 | 02 | 02.2 | 15.2 | R | 107 | |
| 4179 | K2017 | 01 | 03.70957 | 01 | 37 | 46.14 | +09 | 02 | 09.2 | 14.7 | R | 107 | |
| 4179 | K2017 | 01 | 03.71189 | 01 | 37 | 47.36 | +09 | 02 | 16.3 | 15.4 | R | 107 | |
| 2016 NL15 | K2017 | 01 | 03.71975 | 05 | 41 | 05.99 | +37 | 35 | 28.2 | 16.6 | R | 107 | |
| 2016 NL15 | K2017 | 01 | 03.72763 | 05 | 41 | 08.35 | +37 | 34 | 56.0 | 17.2 | R | 107 | |
| 2016 NL15 | K2017 | 01 | 03.73578 | 05 | 41 | 10.68 | +37 | 34 | 21.9 | 17.5 | R | 107 | |
| 41P | K2017 | 01 | 03.94959 | 09 | 20 | 34.81 | +07 | 23 | 57.6 | 17.4 | N | 107 | |
| 41P | K2017 | 01 | 03.96395 | 09 | 20 | 35.25 | +07 | 23 | 58.2 | 18.3 | N | 107 | |
| 41P | K2017 | 01 | 03.98046 | 09 | 20 | 35.81 | +07 | 23 | 59.6 | 16.9 | N | 107 | |
| 28190 | K2017 | 01 | 03.71995 | 05 | 41 | 13.12 | +37 | 25 | 55.9 | 16.4 | R | 107 | |
| 28190 | K2017 | 01 | 03.72783 | 05 | 41 | 12.62 | +37 | 25 | 55.1 | 16.8 | R | 107 | |
| 28190 | K2017 | 01 | 03.73599 | 05 | 41 | 12.10 | +37 | 25 | 54.0 | 16.9 | R | 107 | |
| 2017 AD5 | K2017 | 01 | 05.95031 | 06 | 24 | 21.57 | +34 | 35 | 55.4 | 16.1 | R | 107 | |
| 2017 AD5 | K2017 | 01 | 05.95298 | 06 | 24 | 23.80 | +34 | 35 | 49.4 | 16.1 | R | 107 | |
| 2017 AD5 | K2017 | 01 | 05.95566 | 06 | 24 | 25.93 | +34 | 35 | 41.5 | 16.0 | R | 107 | |
| 3103 | K2017 | 01 | 05.99618 | 11 | 06 | 58.69 | +02 | 15 | 26.2 | 15.9 | R | 107 | |
| 3103 | K2017 | 01 | 06.00132 | 11 | 06 | 58.68 | +02 | 15 | 36.1 | 15.8 | R | 107 | |
| 3103 | K2017 | 01 | 06.00609 | 11 | 06 | 58.70 | +02 | 15 | 45.5 | 15.7 | R | 107 | |
| 5131 | K2017 | 01 | 05.96680 | 05 | 48 | 11.93 | +04 | 02 | 03.0 | 17.3 | R | 107 | |
| 5131 | K2017 | 01 | 05.97157 | 05 | 48 | 11.44 | +04 | 02 | 05.8 | 16.4 | R | 107 | |

| | | | | | | | | | | | | |
|-----------|-------|----|----------|----|----|-------|-----|----|------|------|---|-----|
| 5131 | K2017 | 01 | 05.97671 | 05 | 48 | 10.73 | +04 | 02 | 10.4 | 16.4 | R | 107 |
| 5693 | K2017 | 01 | 05.98281 | 10 | 33 | 20.67 | +16 | 48 | 43.2 | 14.7 | R | 107 |
| 5693 | K2017 | 01 | 05.98519 | 10 | 33 | 19.82 | +16 | 48 | 50.2 | 15.3 | R | 107 |
| 5693 | K2017 | 01 | 05.98757 | 10 | 33 | 18.94 | +16 | 48 | 57.5 | 15.3 | R | 107 |
| 5693 | K2017 | 01 | 05.98996 | 10 | 33 | 18.02 | +16 | 49 | 04.1 | 15.3 | R | 107 |
| 136683 | K2017 | 01 | 06.01477 | 03 | 50 | 26.06 | +61 | 29 | 28.9 | 17.0 | R | 107 |
| 136683 | K2017 | 01 | 06.01953 | 03 | 50 | 25.85 | +61 | 29 | 38.7 | 17.9 | R | 107 |
| 136683 | K2017 | 01 | 06.02430 | 03 | 50 | 25.52 | +61 | 29 | 48.6 | 17.7 | R | 107 |
| 328846 | K2017 | 01 | 05.92640 | 06 | 19 | 44.54 | +11 | 58 | 31.3 | 15.9 | R | 107 |
| 328846 | K2017 | 01 | 05.92971 | 06 | 19 | 44.08 | +11 | 58 | 23.8 | 15.8 | R | 107 |
| 328846 | K2017 | 01 | 05.93264 | 06 | 19 | 43.65 | +11 | 58 | 18.0 | 15.8 | R | 107 |
| C/2015 V2 | 2017 | 01 | 06.08285 | 14 | 43 | 50.59 | +44 | 02 | 09.0 | 14.8 | N | 107 |
| C/2015 V2 | 2017 | 01 | 06.11689 | 14 | 43 | 54.90 | +44 | 02 | 11.2 | 14.7 | N | 107 |
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| 143404 | | 2017 | 04 | 03.78309 | 11 | 20 | 21.79 | +08 | 16 | 24.4 | 13.6 | R | 107 |
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| 143404 | | 2017 | 04 | 03.78704 | 11 | 20 | 20.63 | +08 | 16 | 39.5 | 13.6 | R | 107 |
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| 215588 | K2017 | 04 | 05.78612 | 10 | 01 | 28.28 | +12 | 52 | 55.2 | | | 107 | |
| 215588 | K2017 | 04 | 05.78833 | 10 | 01 | 29.60 | +12 | 52 | 50.7 | | | 107 | |
| 474231 | K2017 | 04 | 05.79559 | 08 | 55 | 27.71 | +49 | 01 | 26.7 | | | 107 | |
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|-----------|-------|------|----------|----------|----|-------|-------|-----|------|------|------|-----|-----|
| 143404 | | 2017 | 04 | 05.90973 | 11 | 09 | 02.75 | +10 | 48 | 04.4 | 13.0 | R | 107 |
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| 474231 | K2017 | 04 | 08.79397 | 10 | 00 | 58.00 | +43 | 53 | 05.0 | 17.1 | R | 107 | |
| 474231 | K2017 | 04 | 08.79639 | 10 | 01 | 00.51 | +43 | 52 | 48.5 | 17.0 | R | 107 | |
| 74P | K2017 | 04 | 08.81655 | 06 | 58 | 08.44 | +27 | 15 | 39.3 | 17.3 | N | 107 | |
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| C/2017 E4 | | 2017 | 04 | 09.15670 | 23 | 05 | 01.09 | +28 | 05 | 27.1 | 12.2 | N | 107 |
| 41P | | 2017 | 04 | 08.87424 | 15 | 44 | 54.18 | +62 | 39 | 37.8 | 14.3 | N | 107 |
| 41P | | 2017 | 04 | 08.89083 | 15 | 45 | 08.58 | +62 | 38 | 55.7 | 13.7 | N | 107 |
| 41P | | 2017 | 04 | 08.90775 | 15 | 45 | 23.20 | +62 | 38 | 12.8 | 13.7 | N | 107 |
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| 65P | K2017 | 04 | 09.07563 | 16 | 31 | 21.99 | -20 | 18 | 38.7 | 16.9 | N | 107 | |
| 65P | K2017 | 04 | 09.08999 | 16 | 31 | 21.94 | -20 | 18 | 40.1 | 17.0 | N | 107 | |
| 65P | K2017 | 04 | 09.10435 | 16 | 31 | 21.86 | -20 | 18 | 41.6 | 16.2 | N | 107 | |
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| 6739 | K2017 | 04 | 09.10076 | 16 | 30 | 46.11 | -20 | 25 | 26.4 | 17.6 | R | 107 | |
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| 11398 | | 2017 | 04 | 09.79903 | 09 | 37 | 33.26 | +60 | 02 | 35.6 | 15.5 | R | 107 |
| 11398 | | 2017 | 04 | 09.80154 | 09 | 37 | 33.66 | +60 | 02 | 40.5 | 15.4 | R | 107 |
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| 54789 | K2017 | 04 | 09.79097 | 06 | 44 | 08.68 | +35 | 09 | 48.2 | 16.2 | R | 107 | |
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| 474231 | K2017 | 04 | 12.80448 | 10 | 54 | 59.22 | +36 | 41 | 10.0 | 16.7 | R | 107 | |
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| 2017 GM4 | K2017 | 04 | 12.84015 | 11 | 56 | 49.17 | -04 | 05 | 16.4 | 16.7 | R | 107 | |
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|------------|-------|----|----------|----|----|-------|-----|----|------|------|---|-----|
| 136108 | K2017 | 04 | 12.83030 | 14 | 09 | 23.43 | +17 | 21 | 29.0 | 16.2 | R | 107 |
| 2017 FH101 | K2017 | 04 | 17.79251 | 13 | 05 | 44.98 | +15 | 16 | 12.0 | 16.8 | R | 107 |
| 2017 FH101 | K2017 | 04 | 17.79745 | 13 | 05 | 47.44 | +15 | 17 | 18.8 | 17.2 | R | 107 |
| 2017 FH101 | K2017 | 04 | 17.80129 | 13 | 05 | 49.27 | +15 | 18 | 10.2 | 17.0 | R | 107 |
| 2017 GB8 | K2017 | 04 | 17.80955 | 14 | 15 | 57.89 | +17 | 47 | 51.0 | | | 107 |
| 2017 GB8 | K2017 | 04 | 17.81593 | 14 | 15 | 55.25 | +17 | 47 | 26.3 | | | 107 |
| 2017 GB8 | K2017 | 04 | 17.82294 | 14 | 15 | 52.36 | +17 | 46 | 57.8 | | | 107 |
| C/2015 V2 | 2017 | 04 | 17.94424 | 16 | 16 | 52.93 | +46 | 46 | 56.0 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 17.97870 | 16 | 16 | 49.99 | +46 | 46 | 41.1 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 18.01459 | 16 | 16 | 46.83 | +46 | 46 | 25.3 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 18.04906 | 16 | 16 | 43.87 | +46 | 46 | 10.3 | 13.4 | N | 107 |
| 41P | 2017 | 04 | 17.84190 | 17 | 18 | 13.98 | +53 | 35 | 16.4 | 14.3 | N | 107 |
| 41P | 2017 | 04 | 17.85910 | 17 | 18 | 21.14 | +53 | 34 | 10.4 | 14.1 | N | 107 |
| 41P | 2017 | 04 | 17.87672 | 17 | 18 | 28.36 | +53 | 33 | 02.5 | 14.2 | N | 107 |
| C/2015 V2 | 2017 | 04 | 21.98619 | 16 | 10 | 44.69 | +46 | 10 | 36.5 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 22.01347 | 16 | 10 | 41.90 | +46 | 10 | 19.5 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 22.04219 | 16 | 10 | 38.99 | +46 | 10 | 01.8 | 13.5 | N | 107 |
| C/2015 V2 | 2017 | 04 | 22.07090 | 16 | 10 | 36.05 | +46 | 09 | 42.9 | 13.4 | N | 107 |
| 41P | 2017 | 04 | 22.07778 | 17 | 42 | 29.55 | +48 | 51 | 04.5 | 14.4 | N | 107 |
| 41P | 2017 | 04 | 22.09500 | 17 | 42 | 34.03 | +48 | 49 | 56.5 | 14.3 | N | 107 |
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| 41P | 2017 | 04 | 22.13029 | 17 | 42 | 43.21 | +48 | 47 | 36.1 | 14.4 | N | 107 |
| 315P | K2017 | 04 | 20.84120 | 11 | 29 | 51.68 | +29 | 11 | 55.8 | | | 107 |
| 315P | K2017 | 04 | 20.85556 | 11 | 29 | 51.64 | +29 | 11 | 48.1 | | | 107 |
| 315P | K2017 | 04 | 20.86920 | 11 | 29 | 51.49 | +29 | 11 | 39.9 | | | 107 |
| 315P | K2017 | 04 | 21.89369 | 11 | 29 | 45.16 | +29 | 01 | 43.7 | 17.1 | N | 107 |
| 315P | K2017 | 04 | 21.92098 | 11 | 29 | 44.95 | +29 | 01 | 27.3 | 17.2 | N | 107 |
| 315P | K2017 | 04 | 21.94826 | 11 | 29 | 44.78 | +29 | 01 | 10.8 | 16.5 | N | 107 |
| 315P | K2017 | 04 | 21.97411 | 11 | 29 | 44.59 | +29 | 00 | 55.6 | 16.5 | N | 107 |
| 474179 | K2017 | 04 | 22.91419 | 10 | 26 | 22.64 | +45 | 14 | 45.4 | 17.7 | R | 107 |
| 474179 | K2017 | 04 | 22.92147 | 10 | 26 | 23.14 | +45 | 13 | 36.2 | 17.6 | R | 107 |
| 474179 | K2017 | 04 | 22.92886 | 10 | 26 | 23.64 | +45 | 12 | 25.6 | 17.6 | R | 107 |
| 484795 | K2017 | 04 | 22.89324 | 12 | 54 | 23.85 | -03 | 45 | 19.5 | 16.5 | R | 107 |
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| 484795 | K2017 | 04 | 22.90105 | 12 | 54 | 21.93 | -03 | 45 | 38.1 | 16.8 | R | 107 |
| 484795 | K2017 | 04 | 22.90515 | 12 | 54 | 20.91 | -03 | 45 | 48.4 | 16.9 | R | 107 |
| 2017 CS | K2017 | 04 | 22.79939 | 09 | 26 | 10.85 | -11 | 04 | 36.0 | 17.4 | R | 107 |
| 2017 CS | K2017 | 04 | 22.81422 | 09 | 26 | 10.54 | -11 | 04 | 27.2 | 18.4 | R | 107 |
| 2017 HU2 | K2017 | 04 | 22.95762 | 10 | 22 | 40.43 | +20 | 33 | 28.2 | 17.1 | R | 107 |
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| 43P | K2017 | 04 | 29.82148 | 11 | 31 | 32.99 | -17 | 47 | 14.7 | 17.8 | N | 107 |
| 43P | K2017 | 04 | 29.83584 | 11 | 31 | 32.94 | -17 | 47 | 05.5 | 17.5 | N | 107 |
| 43P | K2017 | 04 | 29.85020 | 11 | 31 | 32.73 | -17 | 46 | 57.5 | 17.9 | N | 107 |
| C/2016 M1 | K2017 | 04 | 29.92415 | 19 | 07 | 42.99 | +51 | 48 | 41.2 | 17.3 | N | 107 |
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| C/2015 V2 | 2017 | 04 | 29.98184 | 15 | 55 | 50.11 | +44 | 15 | 48.4 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 29.99792 | 15 | 55 | 48.03 | +44 | 15 | 30.3 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 30.01512 | 15 | 55 | 45.85 | +44 | 15 | 11.2 | 13.4 | N | 107 |
| C/2015 V2 | 2017 | 04 | 30.02789 | 15 | 55 | 44.30 | +44 | 14 | 56.9 | 13.7 | N | 107 |
| C/2015 V2 | 2017 | 04 | 30.04395 | 15 | 55 | 42.21 | +44 | 14 | 39.3 | 13.6 | N | 107 |
| C/2015 V2 | 2017 | 04 | 30.06115 | 15 | 55 | 40.01 | +44 | 14 | 20.5 | 13.7 | N | 107 |
| 2017 HU49 | K2017 | 05 | 01.87491 | 15 | 28 | 37.37 | -01 | 37 | 57.9 | 18.3 | R | 107 |
| 2017 HU49 | K2017 | 05 | 01.88069 | 15 | 28 | 33.66 | -01 | 38 | 29.0 | 17.8 | R | 107 |
| 2017 HU49 | K2017 | 05 | 01.88775 | 15 | 28 | 29.13 | -01 | 39 | 08.3 | 18.2 | R | 107 |

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| 2329 | | 2017 | 05 | 13.95068 | 12 | 32 | 08.15 | +28 | 02 | 51.2 | 16.3 | R | 107 |
| 2329 | | 2017 | 05 | 13.95727 | 12 | 32 | 07.73 | +28 | 02 | 55.6 | 16.5 | R | 107 |
| 2329 | | 2017 | 05 | 13.96456 | 12 | 32 | 07.24 | +28 | 03 | 00.7 | 16.2 | R | 107 |
| 11398 | | 2017 | 05 | 13.87755 | 13 | 00 | 47.93 | +68 | 05 | 57.7 | 15.6 | R | 107 |
| 11398 | | 2017 | 05 | 13.88348 | 13 | 00 | 50.46 | +68 | 05 | 54.3 | 15.6 | R | 107 |
| 11398 | | 2017 | 05 | 13.88867 | 13 | 00 | 52.72 | +68 | 05 | 51.2 | 15.7 | R | 107 |
| C/2015 | V2 | 2017 | 05 | 13.89402 | 15 | 24 | 08.98 | +37 | 53 | 07.8 | 13.2 | N | 107 |
| C/2015 | V2 | 2017 | 05 | 13.90788 | 15 | 24 | 06.94 | +37 | 52 | 37.1 | 13.2 | N | 107 |
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| C/2015 | V2 | 2017 | 05 | 13.93926 | 15 | 24 | 02.34 | +37 | 51 | 27.0 | 13.2 | N | 107 |
| 163696 | | K2017 | 05 | 13.98684 | 14 | 00 | 09.23 | +20 | 08 | 38.7 | 18.1 | R | 107 |
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| 222073 | | K2017 | 05 | 13.85615 | 14 | 48 | 47.76 | +17 | 17 | 15.9 | 17.2 | R | 107 |
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| 136472 | | K2017 | 05 | 13.96873 | 12 | 55 | 23.10 | +25 | 25 | 24.9 | 16.8 | R | 107 |
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| 71P | | 2017 | 05 | 14.00731 | 16 | 41 | 58.31 | -22 | 43 | 27.1 | 14.3 | N | 107 |
| 71P | | 2017 | 05 | 14.01892 | 16 | 41 | 58.19 | -22 | 43 | 36.9 | 14.7 | N | 107 |
| 71P | | 2017 | 05 | 14.03042 | 16 | 41 | 58.00 | -22 | 43 | 46.4 | 14.6 | N | 107 |
| 315P | | K2017 | 05 | 15.88529 | 11 | 34 | 01.81 | +24 | 31 | 12.8 | 17.1 | N | 107 |
| 315P | | K2017 | 05 | 15.90611 | 11 | 34 | 02.24 | +24 | 30 | 56.8 | 17.9 | N | 107 |
| 315P | | K2017 | 05 | 15.92765 | 11 | 34 | 02.80 | +24 | 30 | 41.5 | 17.8 | N | 107 |
| 315P | | K2017 | 05 | 15.95206 | 11 | 34 | 03.40 | +24 | 30 | 23.7 | 17.8 | N | 107 |
| 204724 | | K2017 | 05 | 15.89606 | 11 | 34 | 19.08 | +24 | 26 | 48.3 | 19.2 | R | 107 |
| 204724 | | K2017 | 05 | 15.93626 | 11 | 34 | 19.88 | +24 | 26 | 26.2 | 19.1 | R | 107 |
| 136472 | | K2017 | 05 | 15.82204 | 12 | 55 | 17.44 | +25 | 25 | 08.6 | 16.5 | R | 107 |
| 136472 | | K2017 | 05 | 15.83279 | 12 | 55 | 17.40 | +25 | 25 | 08.6 | 16.9 | R | 107 |
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| 71P | | 2017 | 05 | 19.98904 | 16 | 40 | 42.48 | -24 | 08 | 30.5 | 14.2 | N | 107 |
| 71P | | 2017 | 05 | 20.00914 | 16 | 40 | 42.09 | -24 | 08 | 48.2 | 14.4 | N | 107 |
| 71P | | 2017 | 05 | 20.03068 | 16 | 40 | 41.65 | -24 | 09 | 07.0 | 14.4 | N | 107 |
| C/2015 | V2 | 2017 | 05 | 19.89255 | 15 | 09 | 58.75 | +33 | 41 | 34.5 | 13.0 | N | 107 |
| C/2015 | V2 | 2017 | 05 | 19.93448 | 15 | 09 | 52.78 | +33 | 39 | 37.8 | 13.0 | N | 107 |
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| 252091 | | K2017 | 05 | 21.84640 | 09 | 48 | 32.06 | +22 | 28 | 28.6 | 17.2 | R | 107 |
| 252091 | | K2017 | 05 | 21.84953 | 09 | 48 | 31.42 | +22 | 28 | 34.7 | 17.1 | R | 107 |
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| 94P | K2017 | 05 | 21.86405 | 14 | 32 | 44.56 | -10 | 53 | 07.8 | 17.6 | N | 107 |
| 94P | K2017 | 05 | 21.87124 | 14 | 32 | 44.19 | -10 | 53 | 07.1 | 18.2 | N | 107 |
| 94P | K2017 | 05 | 21.87841 | 14 | 32 | 43.92 | -10 | 53 | 07.5 | 17.7 | N | 107 |
| 16231 | K2017 | 05 | 21.86405 | 14 | 33 | 24.00 | -10 | 53 | 16.9 | 17.7 | R | 107 |
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