Da Q a Q, 31 anni dopo

Alessio Squilloni – Gruppo Astrofili di Montelupo (Gr.A.M.)

XII Meeting Corpi Minori – Unione Astrofili Italiani

22 Marzo 2026 - Grosseto

GRuppo Astrofili Montelupo

UNIONE ASTROFILI ITALIANI

28/08/1994

MARSDEN@CFA or WILLIAMS@CFA (.HARVARD.EDU, .SPAN or .BITNET)

1994 QC

Discovered 1994 Aug. 28 at San Marcello Pistoiese.

Available observations:

J94Q00C*	C1994 08 28.89394	21 43 15.24	-02 36 04.2	17 104
J94Q00C	C1994 08 28.89722	21 43 15.14	-02 36 14.4	104
J94Q00C	C1994 08 28.90208	21 43 15.07	-02 36 30.7	104
J94Q00C	C1994 08 28.91027	21 43 14.92	-02 36 59.0	104
J94Q00C	C1994 08 28.92213	21 43 14.69	-02 37 40.0	104
J94Q00C	C1994 08 28.92778	21 43 14.57	-02 37 58.5	104
J94Q00C	C1994 08 28.94050	21 43 14.27	-02 38 41.1	104
J94Q00C	C1994 08 28.96169	21 43 13.77	-02 39 52.4	104
J94Q00C	C1994 08 29.84198	21 43 04.79	-03 29 07.7	587
J94Q00C	C1994 08 29.84583	21 43 04.72	-03 29 18.6	587
J94Q00C	C1994 08 29.85500	21 43 04.61	-03 29 51.6	587
J94Q00C	C1994 08 29.86429	21 43 04.22	-03 30 21.9	17.4 V 595
J94Q00C	C1994 08 29.86876	21 43 04.21	-03 30 36.0	595
J94Q00C	C1994 08 29.87497	21 43 04.06	-03 30 57.1	595
J94Q00C	C1994 08 29.93634	21 43 02.82	-03 34 21.7	589
J94Q00C	C1994 08 29.95462	21 43 02.48	-03 35 22.2	589
J94Q00C	C1994 08 29.97121	21 43 02.12	-03 36 16.7	589
J94Q00C	C1994 08 30.00795	21 43 01.41	-03 38 20.4	595
J94Q00C	C1994 08 30.01177	21 43 01.35	-03 38 31.8	589
J94Q00C	C1994 08 30.01795	21 43 01.27	-03 38 52.5	595
J94Q00C	C1994 08 31.34029	21 42 49.49	-04 51 32.3	657
J94Q00C	C1994 08 31.34310	21 42 49.48	-04 51 43.7	657
J94Q00C	C1994 08 31.34606	21 42 49.47	-04 51 51.9	657

Observer details:

104 San Marcello Pistoiese. Observers A. Boattini, M. Tombelli, S. Giovanardi.
0.40-m reflector + CCD.

587 Sormano. Observers P. Sicoli, V. Giuliani. 0.5-m reflector + CCD.

589 Santa Lucia Stroncone. Observers A. Vagnozzi, E. Gregori.
0.50-m f/2.8 Ritchey-Chretien + CCD.

595 Farra d'Isonzo. Observers G. Lombardi, E. Pettarin. Measurer G. Lombardi.
0.40-m f/4.5 reflector + CCD.

657 Climenhaga Observatory, Victoria. Observers D. D. Balam, J. B. Tatum.
Measurer D. D. Balam. 0.5-m reflector + CCD.

(15817) Lucianotesi = 1994 QC

Discovered at San Marcello on 1994-08-28 by A. Boattini and M. Tombelli.
(15817) Lucianotesi

Luciano Tesi (b. 1931) founded the Amateur Group of the Pistoiese Mountain in 1980. This later led to the construction of the Pian dei Termini Observatory. As director of the station, he has collaborated with the discoverers since 1994 in finding minor planets and following up near-Earth objects. [Ref: ***Minor Planet Circ.*** 41388] [Ref: WGSBN Bull. 5, #28, 6]

Orbit

Orbit type: Amor
Near-Earth Object

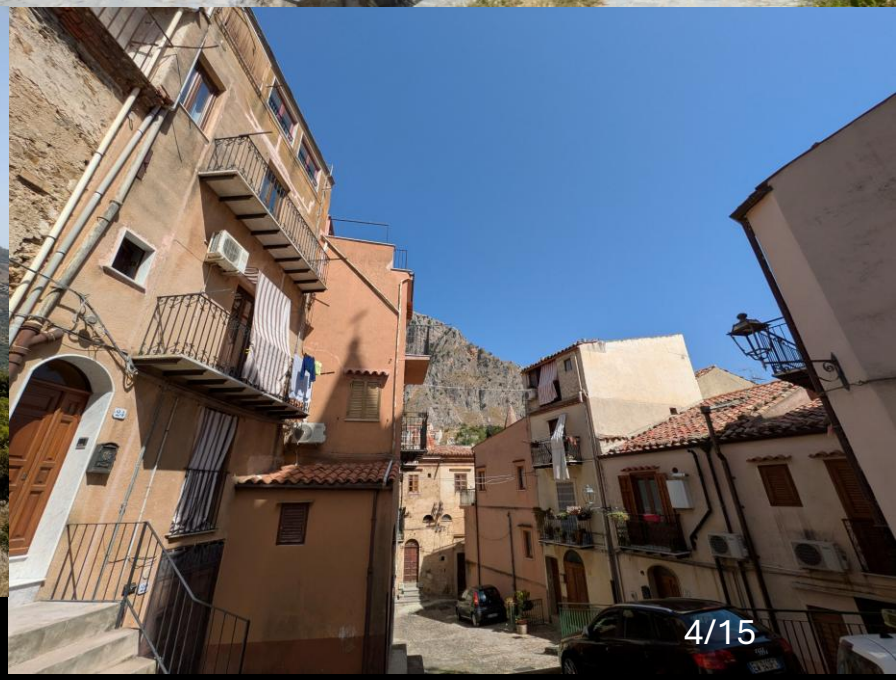
Maura, in valigia c’entro?

- Premio GAL Hassin 2024
- 20/7 – 11/9
- Sotto la supervisione di Sabrina Masiero ed Alessandro Nastasi:
  - Ricerca
  - Divulgazione

Da Q a Q, 31 anni dopo - A. Squilloni (Gr. A. M.)

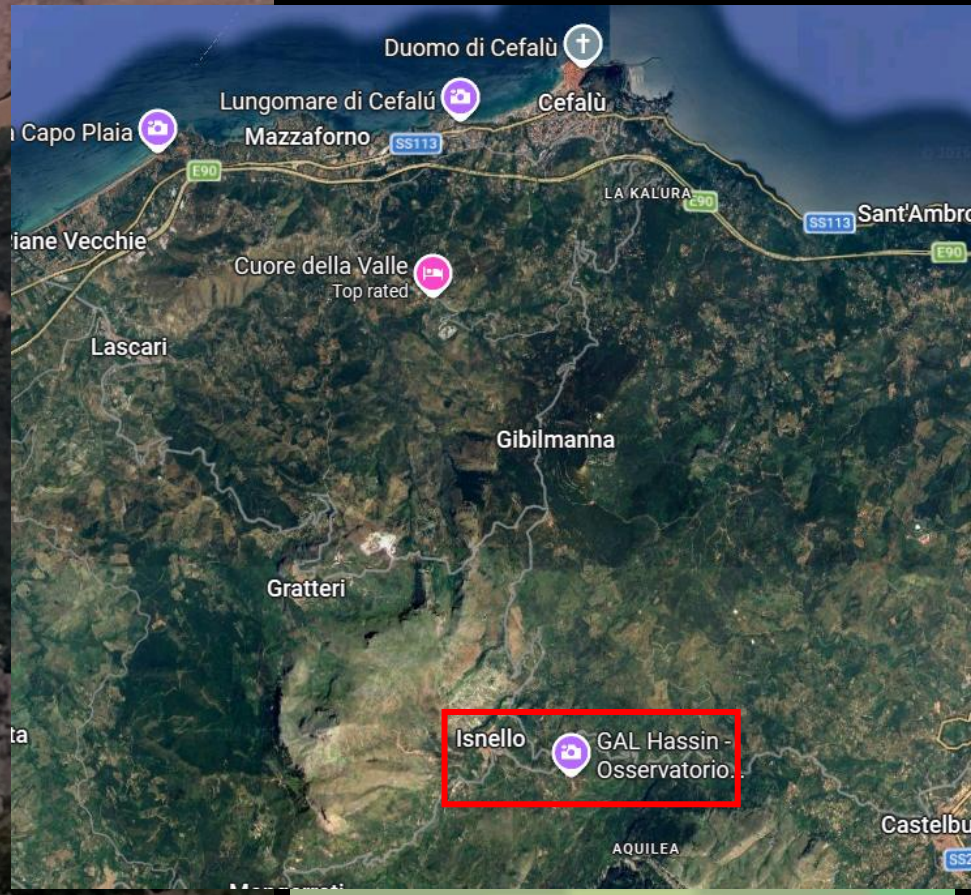
Isnello...

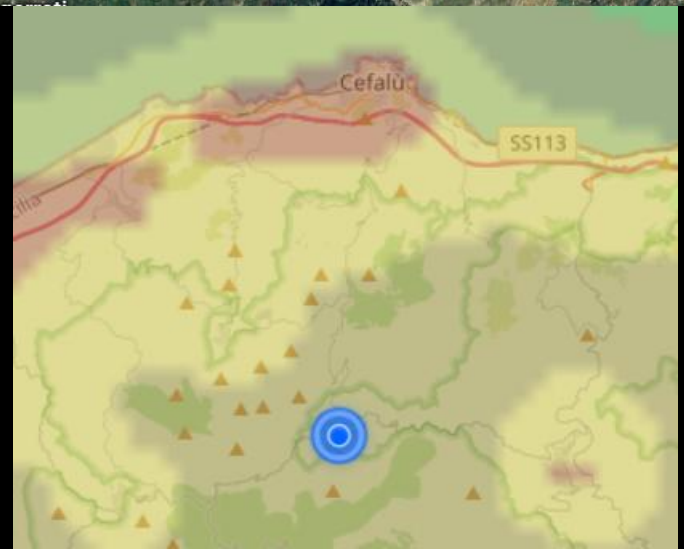
Da Q a Q, 31 anni dopo - A. Squilloni (Gr. A. M.)



...e il GAL Hassin

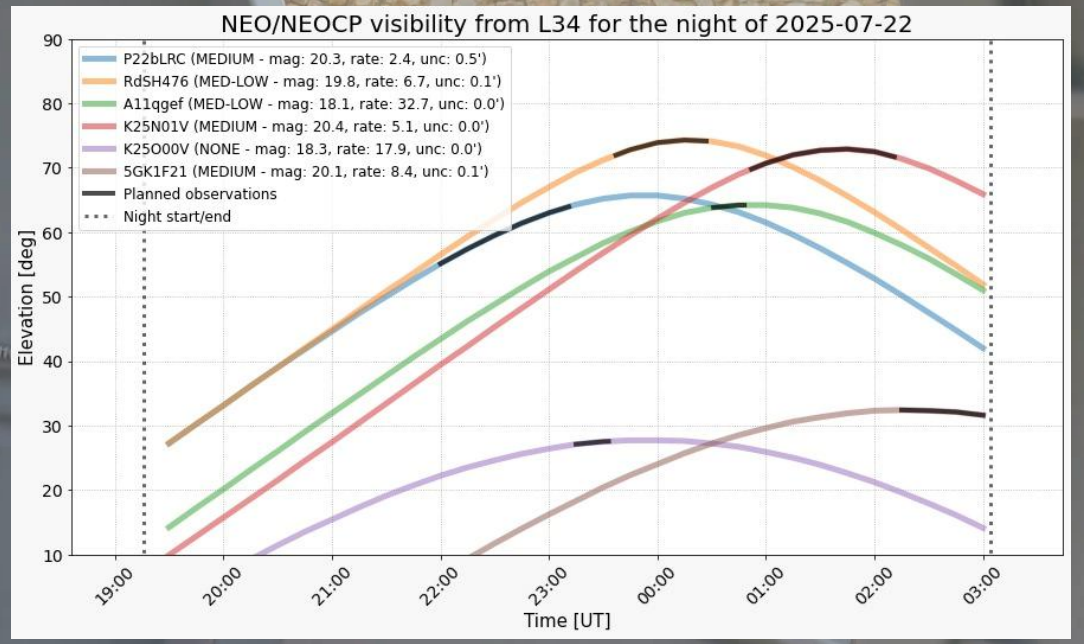
- Divulgazione:
  - Planetario
  - Museo
  - Terrazza osservativa
- Ricerca



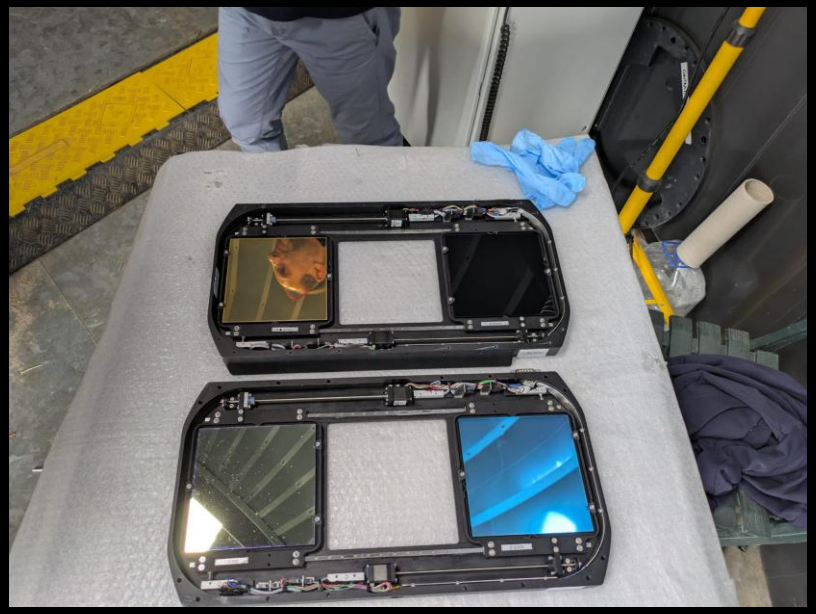


Il GRT - L34

- Completamente robotizzato
- 40 cm f/3.8, RC + Moravian C4-16000 CMOS + filtri Sloan, FOV 1.2 deg
- Circa 140 misure
- 35 MPEC (DOU ecc.)
- 1 recovery



Il WMT – M57



- 1 m f/2.1 PF + SI 1110S CCD + filtri Sloan/ Johnson
- FOV: 2.5 deg, 1 immagine full-frame: 160 Mb
- Sul monte Mufara, vicino al Fly-Eye
- A controllo manuale, robotizzazione in corso
- 35 MPEC (DOU ecc.)
- 150 misure circa
- 1 recovery
- 1 scoperta

Recovery

- 2014 YS43 (GRT)
  - MPEC 2025-O147
  - Non osservato dal 26/01/2015
  - 30 giorni d’arco
  - Mag ~ 19
  - Circa 1 deg di incertezza 1σ
  - Arco di 10.5 anni

2014 YS43

Revision to MPEC 2015-A13

Additional Observations:

```
     K14Y43S  C2025 07 23.58201900 51 51.325-01 14 25.87         19.90GVEO147F52
     K14Y43S  C2025 07 23.59090200 51 46.929-01 14 32.03         19.83GVEO147F52
     K14Y43S  C2025 07 23.59978000 51 42.541-01 14 37.94         20.00GVEO147F52
     K14Y43S  C2025 07 23.60867000 51 38.137-01 14 43.90         19.76GVEO147F52
     K14Y43S KB2025 07 28.07184300 17 05.335-02 04 45.34         18.9 GXEO147L34
     K14Y43S KB2025 07 28.09021500 16 57.031-02 04 58.80         19.2 GXEO147L34
     K14Y43S KB2025 07 29.98311 00 03 15.41 -02 25 43.5          19.9 GXEO147K83
     K14Y43S KB2025 07 29.99988 00 03 08.16 -02 25 54.1          19.5 GXEO147K83
     K14Y43S KB2025 07 30.01660 00 03 00.94 -02 26 06.4          20.4 GXEO147K83
```

Observer details:

F52 Pan-STARRS 2, Haleakala. Observers T. Lowe, P. Minguez, A. Schultz, I. Smith. Measurers K. Chambers, T. de Boer, J. Fairlamb, H. Gao, M. Huber, C.-C. Lin, E. Magnier, G. Paek, Y. Ramanjooloo, R. Wainscoat, R. Weryk. 1.8-m Ritchey-Chretien + CCD.

K83 Beppe Forti Astronomical Observatory, Montelupo. Observers M. Tombelli, M. Iozzi, A. Mazzanti, M. Lombardo, A. Spataro, I. Di Fusco, F. Cheli, A. Squilloni, G. Ferrini. Measurers M. Tombelli, F. Bernardi, F. Cheli, M. Iozzi, A. Squilloni, M. Lombardo. 0.40-m f/8 Ritchey-Chretien + CCD.

L34 Galhassin Robotic Telescope, Isnello. Observers A. Nastasi, A. Squilloni, S. Masiero. 0.40-m f/3.8 400mm Reflector + CMO.

2022 BH9

Revision to MPEC 2022-C111

Additional Observations:

```
     K22B09H  C2011 02 03.41864810 49 11.418+17 57 37.01         21.22GVE
     K22B09H  C2011 02 03.43188810 49 09.190+17 57 26.80         21.57GVER025F51
     K22B09H  C2011 02 04.40711510 46 28.500+17 44 37.86         21.50GVER025F51
     K22B09H  C2011 02 04.41917810 46 26.426+17 44 28.36         21.45GVER025F51
     K22B09H  C2011 02 04.43215410 46 24.164+17 44 17.60         22.10GVER025F51
     K22B09H  C2014 07 28.58550402 54 50.214+09 12 05.34         21.14GVER025F51
     K22B09H  C2014 07 28.59076802 54 50.817+09 12 30.89         22.40GVER025F51
     K22B09H  C2014 07 28.59604602 54 51.534+09 12 56.76         21.87GVER025F51
     K22B09H  C2014 07 28.60133102 54 52.143+09 13 21.76         21.87GVER025F51
     K22B09H  C2014 12 22.39437004 51 32.174+80 21 36.16         22.51GVER025F51
     K22B09H  C2014 12 22.40920904 51 26.025+80 21 08.50         22.85GVER025F51
     K22B09H  C2014 12 22.42450104 51 19.629+80 20 39.21         22.32GVER025F51
     K22B09H  C2014 12 29.33692904 24 09.714+76 20 20.02         21.90GVER025F51
     K22B09H  C2014 12 29.33765404 24 09.545+76 20 18.57         21.93GVER025F51
     K22B09H  C2014 12 29.35035504 24 07.369+76 19 49.46         22.60GVER025F51
     K22B09H  C2018 02 11.55943712 17 35.017-11 10 18.59         22.85GVER025F51
     K22B09H  C2018 02 11.57127912 17 34.077-11 10 38.59         23.88GVER025F51
     K22B09H KC2025 09 01.81091416 44 35.309-15 28 06.02         19.6 GXER025M57
     K22B09H KC2025 09 01.82011116 44 38.767-15 26 29.72         19.2 GXER025M57
     K22B09H KC2025 09 01.82781616 44 41.669-15 25 09.05         19.9 GXER025M57
     K22B09H KC2025 09 01.83211516 44 43.188-15 24 23.04         19.7 GXER025M57
```

Observer details:

F51 Pan-STARRS 1, Haleakala. Observers T. Lowe, P. Minguez, A. Schultz, I. Smith. Measurers K. Chambers, T. de Boer, J. Fairlamb, H. Gao, M. Huber, C.-C. Lin, E. Magnier, G. Paek, Y. Ramanjooloo, R. Wainscoat, R. Weryk. 1.8-m Ritchey-Chretien + CCD.

M57 Wide-field Mufara Telescope, Isnello. Observers A. Nastasi, A. Squilloni, S. Masiero. 1.00-m f/2.1 reflector + CCD.

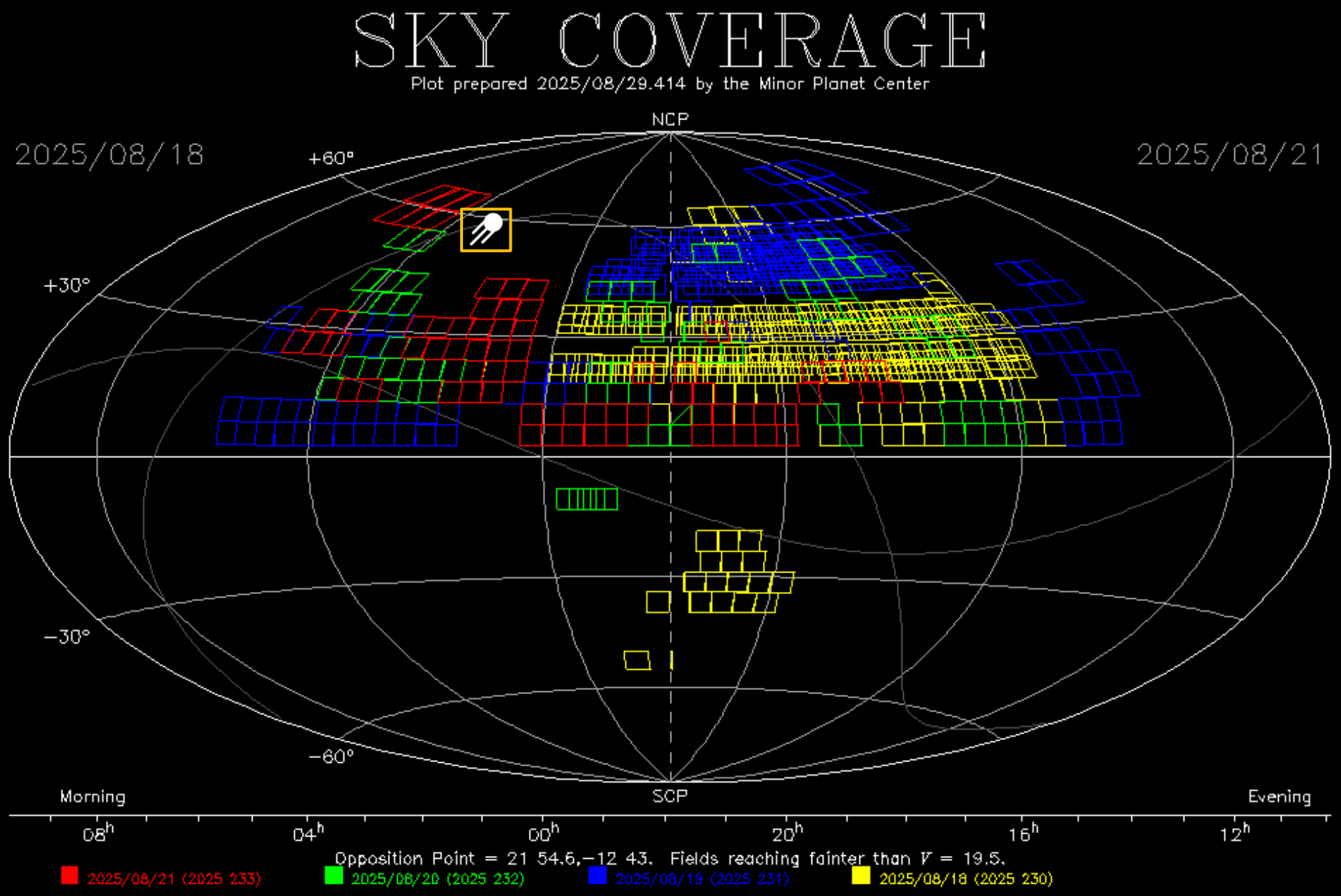
First and last observations above in comparison with prediction:
Residuals in seconds of arc (or two decimals in degrees), reference and Delta-T
110203 F51 0.28+ 0.30+ 250901 M57 0.24+ 0.43+ MPO681539 -0.07 days

- 2022 BH9 (WMT)
  - MPEC 2025-R25
  - 8 giorni d’arco
  - Mag ~ 19.5
  - Non osservato dal 7/2/2022
  - Arco di 14.5 anni circa

Da Q a Q, 31 anni dopo - A. Squilloni (Gr. A. M.)

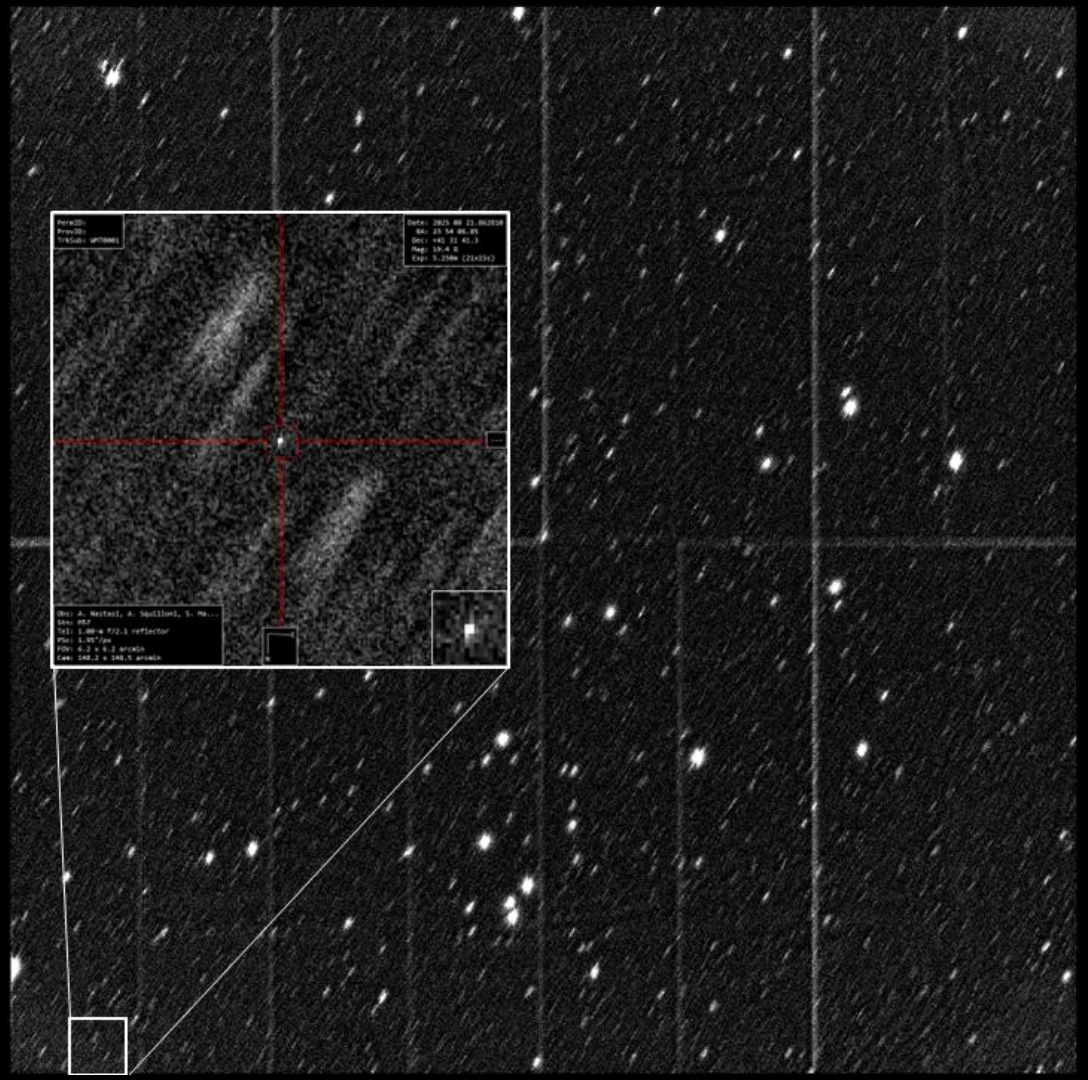
2025 QK3

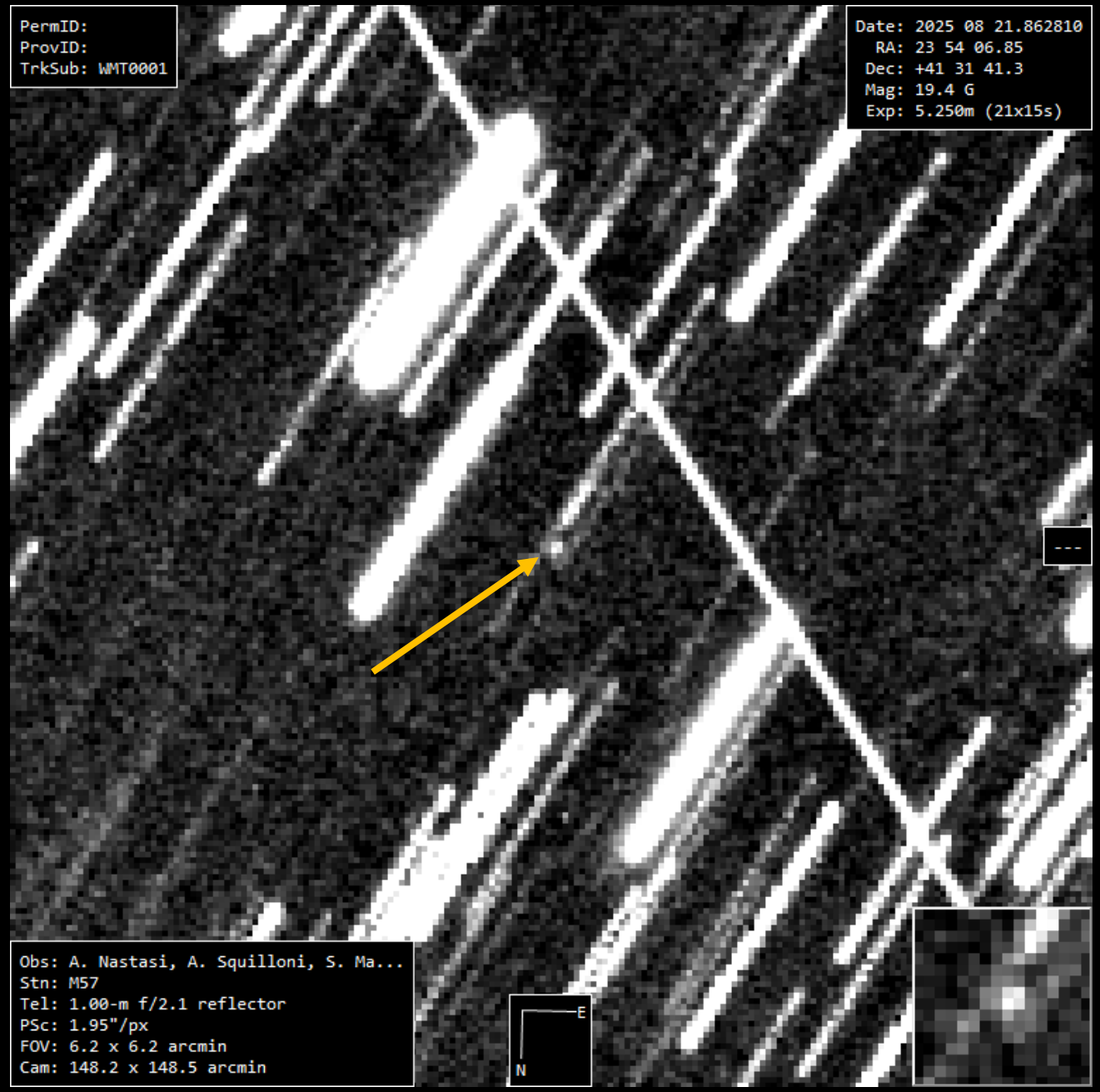
- Primo campo di ricerca
- Syntetic Tracking (Tycho)
- GPU Nvidia RTX 4060 di Riccardo Furgoni
- Immagini full-frame, bin 2x
- Nessun filtro



2025 QK3

- Mag ~ 20, sp. ~ 15 “/min, PA ~ 150°
- WMT0001





2025 QK3

- Confermato da J95 e poi da altri (K83, 104)
- MPEC 2025-Q106 del 23/8/2025
- Ultimo NEA italiano: 2011 UU106 (nel 2006, da San Marcello, 104)
- Primo NEA siciliano

ANSA.it

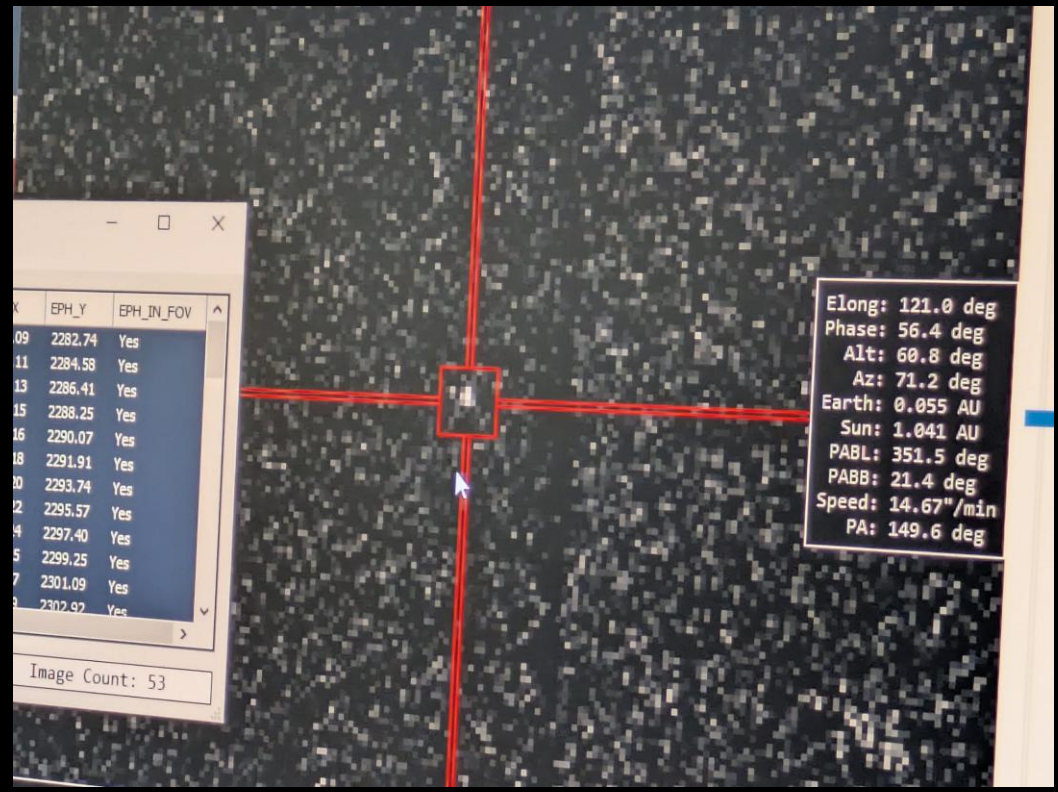
SICILIA

Scoperto asteroide da polo astronomico siciliano

Individuato dagli astrofisici di Isnello nell'orbita di Marte

Redazione Ansa

PALERMO - Agosto 25,2025 - News



SI TRATTA DI UN OGGETTO FRA I 30 E I 60 METRI DI DIAMETRO

Nuovo asteroide near-Earth scoperto dall'Italia

Nella notte fra il 21 e 22 agosto 2025, con il Wide Mufara Telescope della fondazione Gal Hassin, che gestisce il Parco astronomico delle Madonie, in Sicilia, è stato scoperto l'asteroide near-Earth 2025 QK3. Si tratta del primo Nea scoperto da un telescopio sul suolo italiano da 19 anni a questa parte. Ecco come sono andate le cose

Albino Carbognani 25/08/2025

Grazie Luca!

- Ultima data utile: 29/8 da Isnello
- Culminava a 20 gradi, mag. 19.7, sp. 26 “/min
- 13 giorni d’arco, fino al 4/09 (V 21.8)

2025 08 28.047628	01 57 26.731	-20 32 31.81	18.5 G	L34 – Galhassin Robotic Telescope, Isnello	MPS 2424570
2025 08 28.092524	01 58 21.338	-21 03 21.85	19.2 G	L34 – Galhassin Robotic Telescope, Isnello	MPS 2424570
2025 08 28.129398	01 59 06.038	-21 28 26.29	20.0 G	L34 – Galhassin Robotic Telescope, Isnello	MPS 2424570
2025 08 30.012095	02 39 45.777	-38 53 56.08	20.3 G	M21 – Schiaparelli Southern Observatory, Hakos	MPS 2424570
2025 08 30.023583	02 39 59.174	-38 59 02.51		M21 – Schiaparelli Southern Observatory, Hakos	MPS 2424570
2025 09 04.278960	04 13 45.140	-59 01 25.50	21.4 G	807 – Cerro Tololo Observatory, La Serena	MPS 2424570
2025 09 04.288690	04 13 52.850	-59 02 31.70	21.2 G	807 – Cerro Tololo Observatory, La Serena	MPS 2424570
2025 09 04.298420	04 14 00.750	-59 03 36.60	21.9 G	807 – Cerro Tololo Observatory, La Serena	MPS 2424570

Ricerca: i blazar

- Con Alessandro Marchini, in ambito WEBT
- Idea: usare GRT e WMT per la fotometria di blazar
- Problema: i filtri Sloan e le magnitudini Johnson
- Qualche tentativo: work in progress =)
- Primo risultato: ATel 17715 del 19/3/2026

The flaring blazar S5 1044+71 shows a significant increase in its optical brightness

ATel #17715; *Alessandro Marchini (Astronomical Observatory, DSFTA, University of Siena - Italy); Leonardo Stiaccini, Gaia Verna (Department of Physical Sciences, Earth and Environment (DSFTA), University of Siena - Italy); Giacomo Bonnoli (INAF - Brera Astronomical Observatory, Milan - Italy); Ivo Peretto, Giovanni Furlato, Stefano Lora, William Rivato (MarSEC, Marana di Crespadoro, Vicenza - Italy); Alessandro Nastasi, Sabrina Masiero, Alessio Squilloni (GAL Hassin - Centro Internazionale per le Scienze Astronomiche, Isnello, Palermo - Italy)*
*on **9 Mar 2026; 22:19 UT***
Credential Certification: Gaia Verna (gaia.verna@unisi.it)

Subjects: Optical, AGN, Blazar, Transient

2025 XW

Observations:

```
     K25X00W*1C2025 12 08.14745022 58 25.835+32 16 17.44          20.54GVEX078G96
     K25X00W 1C2025 12 08.15306722 58 20.824+32 16 10.20          21.40GVEX078G96
     K25X00W 1C2025 12 08.15868222 58 15.787+32 16 03.86          20.65GVEX078G96
     K25X00W 1C2025 12 08.16430522 58 10.751+32 15 56.02          21.70GVEX078G96
     K25X00W KC2025 12 08.17856922 57 57.892+32 15 37.33                VEX078I52
     K25X00W KC2025 12 08.18113922 57 55.566+32 15 34.38                VEX078I52
     K25X00W KC2025 12 08.18371022 57 53.284+32 15 30.85          21.40GVEX078I52
     K25X00W KC2025 12 08.18627522 57 51.008+32 15 27.18          20.98GVEX078I52
     K25X00W KC2025 12 08.24078122 57 02.430+32 14 12.60                VEX078I52
     K25X00W KC2025 12 08.24539222 56 58.348+32 14 06.29          21.56GVEX078I52
     K25X00W KC2025 12 08.25000322 56 54.262+32 13 59.99          21.30GVEX078I52
     K25X00W KC2025 12 09.05710622 44 55.406+31 56 26.16          21.15GVEX078I52
     K25X00W KC2025 12 09.05941622 44 53.156+31 56 22.49          21.07GVEX078I52
     K25X00W KC2025 12 09.06404422 44 48.692+31 56 14.86          20.70GVEX078I52
     K25X00W KC2025 12 09.86500222 32 04.229+31 31 59.88                XEX078M57
     K25X00W KC2025 12 09.87044122 31 58.870+31 31 47.71                XEX078M57
```

Observer details:

G96 Mt. Lemmon Survey. Observer H. Groeller. Measurers V. F. Carvajal, D. Fay, J. B. Fazekas, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. K. Hogan, R. A. Kowalski, S. M. Larson, G. J. Leonard, C. J. Loewen, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, T. Wright. 1.5-m reflector + 10K CCD.

I52 Steward Observatory, Mt. Lemmon Station. Observer A. R. Gibbs. Measurers V. F. Carvajal, D. Fay, J. B. Fazekas, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. K. Hogan, R. A. Kowalski, S. M. Larson, G. J. Leonard, C. J. Loewen, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, T. Wright. 1.0-m prime focus + CCD.

M57 Wide-field Mufara Telescope, Isnello. Observer A. Nastasi, S. Masiero, A. Squilloni, M. Tombelli, F. Cheli, G. Interrante, M. Lombardo, A. Mazzanti, S. Lari. 1.00-m f/2.1 reflector + CCD.

Da Q a Q, 31 anni dopo - A. Squilloni (Gr. A. M.)

Il futuro

- EU-ESA Workshop on Astrometric and Radar Observations of NEOs a Frascati
- Dal 30/10/2025: collaborazione GAL Hassin - Gruppo Astrofili di Montelupo
- Controllo remoto del WMT
  - Osservazione di asteroidi e blazar
  - Riduzione della fotometria con Alessandro Nastasi

Grazie!