MPEC 2025-N12 : 3I/ATLAS = C/2025 N1 (ATLAS)

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M.P.E.C. 2025-N12 Issued 2025 July 2, 21:31 UT

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3I/ATLAS = C/2025 N1 (ATLAS)

A new NEOCP candidate A11pl3Z was discovered by ATLAS Chile (W68) in four 30-second survey images taken on July 1 UT. Immediate follow-up and precovery observations by Q.-Z. Ye (I41) and S. Deen (W68, M22), including data from June, revealed a highly eccentric, hyperbolic orbit (e ~ 6). There are tentative reports of cometary activity from X09 (S. Deen), G37 (Q.-Z. Ye) and T14 (R. Weryk) with a marginal coma and a short 3" tail at a position angle 280 deg. Additional observations are strongly encouraged to better constrain the object's orbit and nature. Any additional observations received by the MPC will be officially published in the MPC's standard `Orbits and Observations of Comets` publication.
In the meantime, all observations received by the MPC are available in real time via the MPC Explorer
or in the replicated observations table available from SBN.

Observations:

```
0003IK25N010  C2025 06 14.25197918 37 22.105-18 45 26.11              UEN012I41
0003IK25N010  C2025 06 18.35876218 31 01.103-18 45 35.64              UEN012I41
0003IK25N010  C2025 06 18.43648118 30 53.492-18 45 36.01              UEN012I41
0003IK25N010  C2025 06 21.23221118 26 14.489-18 45 24.39              UEN012I41
0003IK25N010  C2025 06 24.38744118 20 40.188-18 44 45.46        18.09oVEN012W68
0003IK25N010  C2025 06 24.39077918 20 39.857-18 44 45.64        18.14oVEN012W68
0003IK25N010  C2025 06 24.40658618 20 38.153-18 44 45.53        18.09oVEN012W68
0003IK25N010  C2025 06 25.07392918 19 24.814-18 44 34.04        18.39cVEN012M22
0003IK25N010  C2025 06 25.07533318 19 24.734-18 44 34.73        18.37cVEN012M22
0003IK25N010  C2025 06 25.09429018 19 22.579-18 44 33.97        18.36cVEN012M22
0003IK25N010  C2025 06 27.23943818 15 20.887-18 43 48.90        17.84oVEN012W68
0003IK25N010  C2025 06 27.24394718 15 20.362-18 43 48.61        18.02oVEN012W68
0003IK25N010  C2025 06 27.33528918 15 09.863-18 43 48.92        17.99rUEN012I41
0003IK25N010  C2025 06 28.29290518 13 18.754-18 43 22.93        18.71gUEN012I41
0003IK25N010  C2025 06 28.33531318 13 13.758-18 43 22.16              UEN012I41
0003IK25N010  C2025 06 28.45014518 13 00.300-18 43 18.55        18.14cVEN012T05
0003IK25N010  C2025 06 28.45333218 12 59.873-18 43 17.98        18.38cVEN012T05
0003IK25N010  C2025 06 28.45971118 12 59.158-18 43 18.01        18.28cVEN012T05
0003IK25N010  C2025 06 29.30390018 11 19.398-18 42 52.36        18.99gUEN012I41
0003IK25N010  C2025 06 29.31508118 11 18.072-18 42 52.30        18.43rUEN012I41
0003IK25N010* C2025 07 01.21888018 07 27.677-18 41 40.16        17.72oVEN012W68
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0003IK25N010  C2025 07 01.22920318 07 26.400-18 41 39.70        17.85oVEN012W68
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0003IK25N010 KC2025 07 01.35541318 07 10.999-18 41 34.08         18.2 GWEN012474
0003IK25N010 KC2025 07 01.36193118 07 10.229-18 41 33.58         18.2 GWEN012474
0003IK25N010 KB2025 07 01.84234 18 06 10.74 -18 41 16.6          17.6 GXEN012M45
0003IK25N010 KB2025 07 01.84987 18 06 09.77 -18 41 16.5          18.4 GXEN012M45
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0003IK25N010 MC2025 07 01.87856118 06 06.22 -18 41 14.7          18.0 VdEN012L01
0003IK25N010 KC2025 07 01.88066418 06 05.95 -18 41 14.6          18.0 VdEN012L01
0003IK25N010 KC2025 07 01.88842418 06 05.00 -18 41 14.4          18.3 VdEN012L01
0003IK25N010 MC2025 07 01.89062218 06 04.72 -18 41 14.1          18.2 VdEN012L01
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0003IK25N010 KB2025 07 01.92381 18 06 00.61 -18 41 11.6          17.4 GXEN012G02
0003IK25N010 KB2025 07 01.92548 18 06 00.42 -18 41 12.6          17.4 GXEN012G00
0003IK25N010 KB2025 07 01.92718118 06 00.30 -18 41 12.2          17.3 GVEN012L65
0003IK25N010 KB2025 07 01.92763 18 06 00.14 -18 41 12.9          17.2 GXEN012G00
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0003IK25N010 1C2025 07 02.27860418 05 16.272-18 40 54.71               XEN012W57
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0003IK25N010 3C2025 07 02.41579218 04 59.226-18 40 50.49         17.63GVEN012T14
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0003IK25N010 KB2025 07 02.42731 18 04 57.90 -18 40 47.5          16.8 GVEN012Q22
0003IK25N010 KB2025 07 02.43448 18 04 56.99 -18 40 47.2          16.8 GVEN012Q22
0003IK25N010 KB2025 07 02.44122 18 04 56.13 -18 40 47.1          16.7 GVEN012Q22
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0003IK25N010 9C2025 07 02.50625018 04 47.795-18 40 46.29         17.1 GWEN012F65
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0003IK25N010 KC2025 07 02.87161 18 04 01.96 -18 40 29.4          17.5 VZEN012L04
0003IK25N010 KC2025 07 02.87523 18 04 01.50 -18 40 29.3          17.8 VZEN012L04
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Observer details:

474 Mount John Observatory, Lake Tekapo. Observers A. C. Gilmore, P. M. Kilmartin. Measurer P. M. Kilmartin. 0.6-m f/6.3 Reflector + CCD.

807 Cerro Tololo Observatory, La Serena. Observers T. Linder, R. Holmes, L. Hutton. 1.30-m Ritchey-Chretien + CCD.

F65 Haleakala-Faulkes Telescope North. Observers T. Santana-Ros, M. Micheli, F. Ocana, M. Devogele, L. Conversi. Measurer M. Micheli. 2.0-m f/10 reflector + CCD.

G0O AZM Martinsberg, Oed. Observers M. Jaeger, G. Rhemann, E. Prosperi. Measurer M. Jaeger. 0.40-m f/3.2 reflector + CMO.

G02 KYSUCE Observatory, Kysucke Nove Mesto. Observer M. Urbanik. 0.40-m f/6.8 Corrected Dall-Kirkham + CCD.

G33 Wickede. Observer G. Neue. 0.27m Schmidt-Cassegrain + CCD.

G40 Slooh.com Canary Islands Observatory. Observer E. Cortes. 0.5-m f/6.8 Corrected Dall-Kirkham + CCD.

H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers T. Linder, R. Holmes, L. Hutton. 0.81-m f/4.0 astrograph + CCD.

I41 Palomar Mountain--ZTF. Observer Z. T. F. Collaboration. Measurer Q.-Z. Ye. 1.2-m f/2.4 Schmidt + ZTF Camera.

I47 Pierre Auger Observatory, Malargue. Observer M. Masek. 0.3-m f/6.8 reflector + CCD.

K62 Teplice Observatory. Observer Z. Moravec. 0.60-m f/3.3 reflector + CMOS.

L01 Visnjan Observatory, Tican. Observers K. Korlevic, L. Poropat. Measurer K. Korlevic. 1.0-m f/2.9 reflector + CCD.

L04 ROASTERR-1 Observatory, Cluj-Napoca. Observer L. Hudin. 0.30-m f/5 reflector + CCD.

L65 Bredenkamp Observatory, Bremen. Observer H. Duin. 0.23-m f/6.3 reflector + CMO.

M22 ATLAS South Africa, Sutherland. Observers L. Denneau, R. Siverd, J. Tonry, H. Weiland. Measurers L. Denneau, N. Erasmus, A. Fitzsimmons, J. Robinson, R. Siverd, J. Tonry, H. Weiland, S. Deen. 0.5-m Reflector + CCD.

M45 Starhopper Observatory, Sfantu Gheorghe. Observer F. Ursache. 0.41-m f/7.5 reflector + CMO.

N42 Tien-Shan Astronomical Observatory. Observer I. Reva. Measurer A. Serebryanskiy. 1.00-m f/6.6 reflector + CCD.

Q22 SNX-NET, Moorook. Observers E. Guido, M. Rocchetto, J. Ferguson. 0.35-m f/3.0 reflector + CMO.

R17 ATLAS-TDO. Observers M. Alarcon, L. Denneau, J. Licandro, P. Nichita, J. Tonry. Measurers M. Alarcon, L. Denneau, N. Erasmus, A. Fitzsimmons, J. Licandro, P. Nichita, J. Robinson, R. Siverd, J. Tonry, H. Weiland. 0.56-m f/2.2 Astrograph + CMOS.

T03 Haleakala-LCO Clamshell #3. Observers T. Santana-Ros, F. Ocana, M. Micheli, M. Devogele, L. Conversi. Measurer M. Micheli. 0.35-m f/3 reflector + CMO.

T05 ATLAS-HKO, Haleakala. Observers L. Denneau, R. Siverd, J. Tonry, H. Weiland. Measurers L. Denneau, N. Erasmus, A. Fitzsimmons, J. Robinson, R. Siverd, J. Tonry, H. Weiland, S. Deen. 0.5-m Reflector + CCD.

T14 Canada-France-Hawaii Telescope, Maunakea. Observers R. Wainscoat, J. Silva, N. Manset. Measurers R. Weryk, R. Wainscoat. 3.6-m f/4.1 reflector + CCD.

V11 Saguaro Observatory, Tucson. Observer D. Rankin. Measurers D. Rankin, D. Parrott. 0.28-m f/2.2 reflector + CCD.

W57 ESA TBT La Silla Observatory. Observers F. Ocana, M. Micheli, R. Kresken, L. Conversi. Measurers F. Ocana, M. Micheli. 0.56-m f/2.52 astrograph prime-focus corrector + 4K CCD.

W68 ATLAS Chile, Rio Hurtado. Observers L. Denneau, R. Siverd, J. Tonry, H. Weiland. Measurers L. Denneau, N. Erasmus, A. Fitzsimmons, J. Robinson, R. Siverd, J. Tonry, H. Weiland, S. Deen. 0.5-m Reflector + CCD.

W85 Cerro Tololo-LCO A. Observers T. Lister, C. Holt, J. Chatelain, E. Gomez, S. Greenstreet. Measurer T. Lister. 1.0-m f/8.0 Ritchey-Chretien + CCD.

X07 iTelescope Deep Sky Chile, Rio Hurtado. Observers H. Sato, F. D. Romanov. 0.51-m f/6.8 astrograph + CCD, 0.51-m f/6.8 reflector + CCD.

X09 Deep Random Survey, Rio Hurtado. Observers K. Ly, S. Deen, D. Bamberger, A. Schnabel, D. Ruhela. Measurer S. Deen. 0.43-m reflector + CMOS.

Y05 SONEAR Wykrota-CEAMIG, Serra da Piedade. Observer C. Jacques. 0.45-m f/2.9 reflector + CMO.

Y64 Transient Survey Telescope (TST), Teide. Observers M. R. Alarcon, M. Serra-Ricart, J. Licandro. Measurer M. R. Alarcon. 1.00-m f/1.2 RC + CMO.

Z21 Tenerife-LCO Aqawan A #1. Observer A. Hale. 0.35-m f/3 Cassegrain + CCD.

Orbital elements:

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   3I/ATLAS
Epoch 2025 May 5.0 TT = JDT 2460800.5
T 2025 Oct. 29.21095 TT                              Veres
q   1.3745928           (2000.0)            P              Q
z  -3.8388970      Peri.  127.79317     -0.96648407     -0.25138653
 +/-0.5778437      Node   322.27219     -0.25407056     +0.90747872
e   6.2769203      Incl.  175.11669     -0.03683342     +0.33658162
From 122 observations 2025 June 14-July 2, mean residual 0".3.
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