

Search MPC

OBSERVERS DATA IAWN BETA STATUS SBN ANNEX

- Processing (Info)

MPEC 2021-X139 : 2021 XH3

The following [Minor Planet Electronic Circular](#) may be linked-to from your own Web pages, but must not otherwise be [redistributed electronically](#).

A form allowing access to any MPEC is at [the bottom of this page](#).

◀ [Read MPEC 2021-X138](#)

M.P.E.C. 2021-X139 Issued 2021 December 6, 23:58 UT

The Minor Planet Electronic Circulars contain information on unusual minor planets and routine data on comets. They are published on behalf of Division F of the International Astronomical Union by the Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

Prepared using the Tamkin Foundation Computer Network

MPC@CFA.HARVARD.EDU
URL <https://www.minorplanetcenter.net/> ISSN 1523-6714

2021 XH3

Observations:

K21X03H*	C2021	12	06.17359105	29	09.17	+64	26	04.6	19.18GVEX139703		
K21X03H	C2021	12	06.17926205	28	59.35	+64	24	47.7	19.19GVEX139703		
K21X03H	C2021	12	06.18493405	28	49.73	+64	23	30.9	19.30GVEX139703		
K21X03H	C2021	12	06.19060505	28	39.97	+64	22	13.8	19.14GVEX139703		
K21X03H	mC2021	12	06.24007705	27	14.30	+64	10	50.7	18.56GVEX139152		
K21X03H	mC2021	12	06.24024205	27	14.00	+64	10	48.5	18.61GVEX139152		
K21X03H	mC2021	12	06.24040705	27	13.69	+64	10	46.1	18.43GVEX139152		
K21X03H	mC2021	12	06.24057105	27	13.42	+64	10	43.5	18.28GVEX139152		
K21X03H	mC2021	12	06.33486905	24	29.26	+63	48	00.7	18.39GVEX139152		
K21X03H	mC2021	12	06.33503405	24	28.97	+63	47	58.2	18.36GVEX139152		
K21X03H	mC2021	12	06.33519805	24	28.75	+63	47	55.7	18.57GVEX139152		
K21X03H	mC2021	12	06.33536305	24	28.42	+63	47	53.2	VEX139152		
K21X03H	KC2021	12	06.69279605	16	42.09	+62	14	09.6	18.2	GVEX139106	
K21X03H	KC2021	12	06.69431305	16	40.17	+62	13	49.0	18.9	GVEX139106	
K21X03H	KC2021	12	06.69511605	16	39.11	+62	13	38.1	19.1	GVEX139106	
K21X03H	KC2021	12	06.69788205	16	35.63	+62	12	59.3	18.8	GVEX139106	
K21X03H	KC2021	12	06.71278	05	16	17.54	+62	09	42.0	18.4	GVEX139104
K21X03H	KC2021	12	06.72243	05	16	05.09	+62	07	29.7	18.2	GVEX139104
K21X03H	KC2021	12	06.73207	05	15	52.52	+62	05	17.6	VEX139104	
K21X03H	KC2021	12	06.76298605	15	12.26	+61	57	56.1	ZEX139C95		
K21X03H	KC2021	12	06.77004605	15	03.00	+61	56	20.3	19.3	GZEX139C95	
K21X03H	KC2021	12	06.77161605	14	59.54	+61	56	04.0	18.2	GVEX139587	
K21X03H	KC2021	12	06.77306605	14	57.62	+61	55	44.5	18.7	GVEX139587	
K21X03H	KC2021	12	06.77327505	14	57.36	+61	55	41.6	18.9	GVEX139587	
K21X03H	KC2021	12	06.77707205	14	53.63	+61	54	43.1	19.0	GZEX139C95	
K21X03H	KC2021	12	06.77891805	14	49.93	+61	54	24.2	18.4	GVEX139203	
K21X03H	KC2021	12	06.78412005	14	44.23	+61	53	05.8	17.6	GZEX139C95	
K21X03H	KC2021	12	06.78850605	14	37.14	+61	52	10.9	18.7	GVEX139203	
K21X03H	KC2021	12	06.79484405	14	28.58	+61	50	43.4	18.5	GVEX139203	
K21X03H	KC2021	12	06.79547	05	14	28.20	+61	50	41.5	18.7	GXEX139K78
K21X03H	KC2021	12	06.79656105	14	25.03	+61	50	31.6	18.7	GXEX139595	
K21X03H	KC2021	12	06.80111	05	14	20.61	+61	49	23.8	18.7	GXEX139K78
K21X03H	KC2021	12	06.80120	05	14	20.50	+61	49	22.5	18.7	GXEX139K78
K21X03H	KC2021	12	06.80435805	14	19.02	+61	48	22.1	19.4	GVEX139B49	
K21X03H	KC2021	12	06.80494805	14	18.22	+61	48	14.2	19.7	GVEX139B49	
K21X03H	KC2021	12	06.80509805	14	18.02	+61	48	12.1	19.0	GVEX139B49	
K21X03H	KC2021	12	06.80683	05	14	12.85	+61	48	04.5	18.3	GXEX139K78
K21X03H	KC2021	12	06.80798705	14	09.42	+61	47	52.4	18.4	GXEX139595	
K21X03H	KC2021	12	06.81316005	14	07.20	+61	46	21.1	18.6	GVEX139B49	
K21X03H	KC2021	12	06.81940805	13	53.73	+61	45	12.8	18.3	GXEX139595	
K21X03H	KC2021	12	06.83929	05	13	27.01	+61	40	30.0	17.9	RVEX139K51
K21X03H	KC2021	12	06.84097	05	13	24.68	+61	40	06.3	18.0	RVEX139K51
K21X03H	KC2021	12	06.84265	05	13	22.35	+61	39	42.6	18.6	RVEX139K51
K21X03H	KC2021	12	06.88694	05	12	27.77	+61	29	10.2	17.4	GXEX139J57
K21X03H	KC2021	12	06.89104	05	12	22.07	+61	28	12.7	16.9	GVEX139J57
K21X03H	KC2021	12	06.89498	05	12	16.58	+61	27	16.9	XEX139J57	
K21X03H	KC2021	12	06.89784805	12	11.26	+61	26	22.0	18.1	GXEX139958	
K21X03H	KC2021	12	06.89975305	12	04.98	+61	25	13.4	19.0	GVEX139Z99	
K21X03H	KC2021	12	06.90287405	12	00.73	+61	24	28.7	18.8	GVEX139Z99	
K21X03H	KC2021	12	06.90431605	11	59.55	+61	24	15.9	18.5	GVEX139Z80	
K21X03H	KC2021	12	06.90599005	11	56.50	+61	23	43.8	19.1	GVEX139Z99	

K21X03H KC2021 12 06.90640705 11 59.40 +61 24 19.2 18.6 GXEX139958
 K21X03H KC2021 12 06.91167105 11 49.54 +61 22 29.7 19.2 GVEX139Z80
 K21X03H KC2021 12 06.91250605 11 50.92 +61 22 52.0 18.4 GXEX139958
 K21X03H KC2021 12 06.91902505 11 39.55 +61 20 44.2 18.8 GVEX139Z80
 K21X03H KC2021 12 06.97809705 10 19.07 +61 06 20.8 19.0 GVEX139J95
 K21X03H KC2021 12 06.98012705 10 16.37 +61 05 50.7 18.7 GVEX139J95
 K21X03H KC2021 12 06.98217205 10 13.53 +61 05 20.0 18.8 GVEX139J95
 K21X03H KC2021 12 06.98422505 10 10.77 +61 04 49.8 18.8 GVEX139J95
 K21X03H KC2021 12 06.98637005 10 07.84 +61 04 18.0 18.9 GVEX139J95

Observer details:

104 San Marcello Pistoiese. Observers P. Bacci, M. Maestripietri. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m f/4 reflector + CCD.
203 GiaGa Observatory. Observers S. Foglia, G. Galli. Measurer G. Galli. 0.36-m f/5.76 Schmidt-Cassegrain + CCD.
587 Sormano. Observers A. Carcano, E. Colzani, D. Pezzella. Measurer P. Sicoli. 0.5-m f/6.8 reflector + CCD.
595 Farra d'Isonzo. Observer E. Pettarin. 0.61-m f/4.5 reflector + CCD.
703 Catalina Sky Survey. Observer D. C. Fuls. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos. 0.68-m Schmidt + 10K CCD.
958 Observatoire de Dax. Observer P. Dupouy. 0.32-m Schmidt-Cassegrain + CCD.
B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m f/4.0 reflector + CCD.
C95 SATINO Remote Observatory, Haute Provence. Observer J. Jahn. 0.60-m f/3.2 Newtonian reflector + CCD.
I52 Steward Observatory, Mt. Lemmon Station. Observer D. C. Fuls. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos.
157 Centro Astronomico Alto Turia, Valencia. Observer A. Fornas. Measurers A. Fornas, G. Fornas, E. Arce, V. Mas. 0.43-m f/6.8 reflector + CCD.
J95 Great Shefford. Observer P. Birtwhistle. 0.41-m f/6.3 Schmidt-Cassegrain + CCD.
K51 Osservatorio del Celado, Castello Tesino. Observers G. Favero, R. Furgoni. Measurer R. Furgoni. 0.80-m f/4 reflector + CCD.
K78 Iota Scorpii Observatory, La Spezia. Observers G. Scarfi, L. Sannino.
L06 Sormano 2 Observatory, Bellagio Via Lattea. Observer G. Ventre. Measurer P. Sicoli. 0.36-m Schmidt-Cassegrain + CCD.
Z80 Northolt Branch Observatory. Observers G. Wells, J. Leuty. Measurers G. Wells, D. Bamberger. 0.25-m f/8.0 Ritchey-Chretien + CCD.
Z99 Clixby Observatory, Cleethorpes. Observer A. Mickleburgh. 0.36-m f/8 Schmidt-Cassegrain + CCD.

Orbital elements:

2021 XH3 Earth MOID = 0.0271 AU
 Epoch 2022 Jan. 21.0 TT = JDT 2459600.5 Veres
 M 170.76136 (2000.0) P Q
 n 1.09956204 Peri. 32.42514 +0.51737481 +0.8525230
 a 0.9296573 Node 268.82972 -0.80008762 +0.45121931
 e 0.1390070 Incl. 4.24538 -0.30361672 +0.26373415
 P 0.90 H 25.03 G 0.15 U 6

Residuals in seconds of arc

211206 703 0.2+ 0.3+ 211206 C95 0.1+ 0.8+ 211206 K51 (1.0+ 1.4+)
 211206 703 0.7- 0.0 211206 587 0.1+ 0.5- 211206 K51 (0.9+ 1.4+)
 211206 703 0.0 0.1+ 211206 587 0.2+ 0.1+ 211206 K51 (0.9+ 1.4+)
 211206 703 0.1- 0.1+ 211206 587 0.3+ 0.0 211206 J57 0.1- 0.3-
 211206 I52 0.1+ 0.1- 211206 C95 0.4- 0.3+ 211206 J57 0.2- 0.1-
 211206 I52 0.0 0.0 211206 203 0.3- 0.4+ 211206 J57 0.3- 0.4-
 211206 I52 0.2- 0.1- 211206 C95 0.6- 0.0 211206 958 1.0- 0.9+
 211206 I52 0.0 0.5- 211206 203 0.2+ 0.4- 211206 Z99 0.1- 0.2+
 211206 I52 0.2+ 0.1- 211206 203 0.0 0.1- 211206 Z99 0.1- 0.3+
 211206 I52 0.2+ 0.2- 211206 K78 0.3- 0.2- 211206 Z80 0.4- 0.0
 211206 I52 0.5+ 0.2- 211206 595 0.4- 0.2- 211206 Z99 0.1- 0.2+
 211206 I52 0.2+ 0.3- 211206 K78 0.2+ 0.2+ 211206 958 1.0- 0.3-
 211206 L06 0.4+ 0.1- 211206 K78 0.2+ 0.2+ 211206 Z80 0.1- 0.5-
 211206 L06 0.4+ 0.2+ 211206 B49 0.2+ 0.1+ 211206 958 1.1- 0.4-
 211206 L06 0.2+ 0.4+ 211206 B49 0.2+ 0.4+ 211206 Z80 0.4+ 0.1-
 211206 L06 0.5+ 0.3- 211206 B49 0.2+ 0.3+ 211206 J95 0.2- 0.1+
 211206 104 0.6- 0.1- 211206 K78 0.3+ 0.3+ 211206 J95 0.3+ 0.1+
 211206 104 0.3- 0.1- 211206 595 0.2- 0.1- 211206 J95 0.1- 0.3-
 211206 104 0.4- 0.0 211206 B49 0.3+ 0.3+ 211206 J95 0.2+ 0.1-
 211206 C95 0.3- 0.4- 211206 595 0.3- 0.1- 211206 J95 0.2+ 0.1-

Ephemeris:

2021 XH3 a,e,i = 0.93, 0.14, 4 q = 0.8004
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2021 11 06 14 48 35.6 +28 09 03 0.07262 0.9405 44.1 132.9 25.2
 ...
 2021 11 21 14 12 25.1 +49 09 15 0.04203 0.9758 72.0 105.6 22.0
 ...
 2021 11 29 12 16 39.5 +70 34 47 0.03069 0.9929 101.1 77.1 20.1
 ...
 2021 12 05 06 06 04.6 +69 01 59 0.02834 1.0046 131.7 47.1 19.1
 2021 12 06 05 33 15.7 +65 07 39 0.02870 1.0065 136.7 42.1 19.0
 2021 12 07 05 09 48.7 +61 00 17 0.02928 1.0083 141.5 37.5 18.9
 ...
 2021 12 13 04 10 06.8 +38 53 53 0.03678 1.0188 158.3 21.0 18.9
 ...
 2021 12 21 03 50 09.2 +21 58 33 0.05352 1.0309 151.1 27.5 20.0
 ...
 2022 01 05 03 47 38.2 +09 58 31 0.09347 1.0480 131.9 44.3 21.7

M. P. C. Staff

(C) Copyright 2021 MPC

M.P.E.C. 2021-X139

◀ [Read MPEC 2021-X138](#)

Display

MPEC number:

Clear

Enter an MPEC number in one of the following forms:

- 1997-B01 (the full form)
- J97B01 (the packed version of the full form)
- B01 (the abbreviated form)

[Home](#) [About](#) [Contact](#) [Privacy](#)



The Minor

Planet Center is hosted by the Center for Astrophysics | Harvard & Smithsonian.
The Minor Planet Center is funded by NASA.