

OBSERVERS DATA IAWN BETA STATUS

- Processing (Info)

MPEC 2019-N160 : C/2019 N1

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 2019-N159](#) ▶ [Read MPEC 2019-001](#)

M.P.E.C. 2019-N160 Issued 2019 July 15, 19:01 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

COMET C/2019 N1 (ATLAS)

This object was reported on 2019 July 5 UT by the ATLAS team (T08) as asteroidal. Four hours later, it was reported as cometary by K. Sarneczky (K88), who noted a very condensed 6" coma in four stacked 120-s exposures. Additional reports of cometary features are summarized below:

OC	Date	Reporter	Coma	Tail	
204	July 6	L. Buzzi	9"		(30 x 60s)
U69	July 7	H. Sato	10"		(9 x 60s)
K88	July 7	K. Sarneczky	8"	8" in P.A. 135	(6 x 120s)
G40	July 8	B. Lutkenhoner	12"		
H06	July 8	H. Sato	12"		(10 x 60s)
585	July 10	A. Baransky	11"	30" in P..A. 137	(33 x 30s)

Observations:

CK19N010	C2019 06 10.57733622	43 57.36 +77 43 13.8	18.90o	VEN160T05
CK19N010	C2019 06 10.57826622	43 57.13 +77 43 14.2	18.83o	VEN160T05
CK19N010	C2019 06 10.58012822	43 57.18 +77 43 16.1	18.90o	VEN160T05
CK19N010	C2019 06 10.58105722	43 57.36 +77 43 16.0	19.00o	VEN160T05
CK19N010	C2019 06 10.58517322	43 56.84 +77 43 19.1	18.86o	VEN160T05
CK19N010	,C2019 06 11.56476322	43 12.57 +77 54 35.6	19.7	VtEN160F65
CK19N010	,C2019 06 11.56633222	43 12.48 +77 54 36.7	20.4	VtEN160F65
CK19N010	,C2019 06 11.56790222	43 12.39 +77 54 37.6	20.4	VtEN160F65
CK19N010	,C2019 06 11.56947022	43 12.32 +77 54 38.9	19.7	VtEN160F65
CK19N010*	C2019 07 05.54128721	51 50.51 +82 15 31.4	18.68o	VEN160T08
CK19N010	C2019 07 05.55205921	51 47.79 +82 15 36.5	18.46o	VEN160T08
CK19N010	C2019 07 05.60486321	51 34.40 +82 16 06.1	18.64o	VEN160T08
CK19N010	C2019 07 05.60902521	51 33.76 +82 16 08.5	18.65o	VEN160T08
CK19N010	C2019 07 05.92053	21 50 15.48 +82 19 02.7	18.6	RoEN160K88
CK19N010	C2019 07 05.92376	21 50 14.65 +82 19 04.5	18.3	RoEN160K88
CK19N010	C2019 07 05.92699	21 50 13.91 +82 19 06.2	18.3	RoEN160K88
CK19N010	C2019 07 05.93022	21 50 13.00 +82 19 08.1	18.3	RoEN160K88
CK19N010	C2019 07 05.93345	21 50 12.23 +82 19 09.9	18.5	RoEN160K88
CK19N010	KC2019 07 05.95263	21 50 07.51 +82 19 20.5		VEN160204
CK19N010	KC2019 07 05.95806921	50 06.31 +82 19 23.3	18.7	GVEN160L01
CK19N010	KC2019 07 05.96013	21 50 05.56 +82 19 24.2		VEN160204
CK19N010	KC2019 07 05.96043621	50 05.63 +82 19 24.2	19.0	GVEN160L01
CK19N010	KC2019 07 05.96763	21 50 03.71 +82 19 28.9	18.8	GVEN160204
CK19N010	KC2019 07 05.98907	21 49 58.06 +82 19 40.5	18.2	GVEN160K38
CK19N010	KC2019 07 05.99609121	49 56.19 +82 19 44.8	18.9	GVEN160L01
CK19N010	KC2019 07 05.99846321	49 55.71 +82 19 45.6	18.9	GVEN160L01
CK19N010	KC2019 07 06.00043021	49 55.22 +82 19 46.8	18.9	GVEN160L01
CK19N010	KC2019 07 06.00199621	49 54.86 +82 19 47.5	18.9	GVEN160L01
CK19N010	KC2019 07 06.01588	21 49 51.05 +82 19 55.9	18.5	GVEN160K38
CK19N010	KC2019 07 06.01930	21 49 50.35 +82 19 57.7	18.1	RVEN160A17
CK19N010	KC2019 07 06.03172	21 49 46.91 +82 20 04.6	18.2	RVEN160A17
CK19N010	KC2019 07 06.04527	21 49 43.43 +82 20 12.0	18.7	GVEN160K38
CK19N010	KC2019 07 06.05905	21 49 40.09 +82 20 19.7	18.3	RVEN160A17
CK19N010	KC2019 07 06.06490	21 49 38.36 +82 20 23.1	18.3	RVEN160A17
CK19N010	C2019 07 06.07339	21 46 06.91 +82 27 48.4	18.5	R EN160L33
CK19N010	C2019 07 06.08405	21 46 03.96 +82 27 54.5	18.4	R EN160L33
CK19N010	C2019 07 06.08940	21 46 01.11 +82 28 00.0	18.4	R EN160L33
CK19N010	C2019 07 06.09069	21 45 59.38 +82 28 03.2	18.3	RoEN160K88
CK19N010	C2019 07 06.09092	21 45 58.58 +82 28 04.9	18.4	RoEN160K88
CK19N010	C2019 07 06.090715	21 45 57.81 +82 28 06.7	18.1	RoEN160K88

CK19N010	C2019 07 06.91038	21 45 56.93	+82 28 08.6	18.4	RoEN160K88
CK19N010	C2019 07 06.91846	21 45 54.63	+82 28 13.0	18.2	RoEN160K88
CK19N010	C2019 07 06.92017	21 45 54.37	+82 28 14.1	18.3	RoEN160K88
CK19N010	C2019 07 06.92340	21 45 53.32	+82 28 15.8	18.4	RoEN160K88
CK19N010	C2019 07 06.92663	21 45 52.47	+82 28 17.3	18.1	RoEN160K88
CK19N010	C2019 07 06.92986	21 45 51.77	+82 28 19.0	18.3	RoEN160K88
CK19N010	C2019 07 06.93309	21 45 50.69	+82 28 21.1	17.9	RoEN160K88
CK19N010	5C2019 07 07.21138	21 44 35.79	+82 30 50.0		VEN160U69
CK19N010	5C2019 07 07.21510	21 44 34.96	+82 30 52.1	18.2	GVEN160U69
CK19N010	KC2019 07 07.88514	21 41 28.32	+82 36 51.0	18.5	RoEN160K88
CK19N010	KC2019 07 07.88999	21 41 26.88	+82 36 53.7	18.4	RoEN160K88
CK19N010	KC2019 07 07.89483	21 41 25.65	+82 36 56.3	18.3	RoEN160K88
CK19N010	KC2019 07 07.89968	21 41 24.15	+82 36 58.8	18.8	RoEN160K88
CK19N010	-C2019 07 07.94652	21 41 11.60	+82 37 23.1	18.5	GVEN160G40
CK19N010	-C2019 07 07.95351	21 41 09.42	+82 37 26.0	18.3	GVEN160G40
CK19N010	-C2019 07 07.96748	21 41 05.60	+82 37 33.7	18.5	GVEN160G40
CK19N010	9C2019 07 08.10896	21 40 24.45	+82 38 49.5	18.6	GVEN160G40
CK19N010	9C2019 07 08.12015	21 40 21.16	+82 38 55.2	18.4	GVEN160G40
CK19N010	9C2019 07 08.13155	21 40 17.99	+82 39 01.3	18.6	GVEN160G40
CK19N010	C2019 07 08.37036	21 39 08.82	+82 41 05.9		VEN160H06
CK19N010	C2019 07 08.37330	21 39 08.10	+82 41 07.2		VEN160H06
CK19N010	C2019 07 08.37624	21 39 07.23	+82 41 08.9	18.2	GVEN160H06
CK19N010	KC2019 07 08.86842	21 36 42.80	+82 45 21.2		VEN160I04
CK19N010	KC2019 07 08.87866	21 36 39.92	+82 45 26.7	18.8	GVEN160I04
CK19N010	KC2019 07 08.88691	21 36 37.53	+82 45 30.6	18.1	GVEN160I04
CK19N010	C2019 07 08.92248	21 36 26.58	+82 45 50.5	18.2	R EN160L33
CK19N010	C2019 07 08.93385	21 36 23.01	+82 45 56.3	18.4	R EN160L33
CK19N010	C2019 07 08.94667	21 36 19.34	+82 46 02.7	18.1	R EN160L33
CK19N010	"C2019 07 09.18117	21 35 08.35	+82 48 01.6	18.3	VqEN160G40
CK19N010	"C2019 07 09.21214	21 34 58.81	+82 48 17.1	18.3	VqEN160G40
CK19N010	KC2019 07 09.95279	21 31 10.17	+82 54 25.9	18.3	RqEN160S85
CK19N010	KC2019 07 09.95456	21 31 09.58	+82 54 26.8	18.2	RqEN160S85
CK19N010	KC2019 07 09.95598	21 31 09.15	+82 54 27.5	18.1	RqEN160S85
CK19N010	KC2019 07 09.95746	21 31 08.70	+82 54 28.4	18.2	RqEN160S85
CK19N010	KC2019 07 09.95900	21 31 08.21	+82 54 29.1	18.2	RqEN160S85
CK19N010	KC2019 07 09.96055	21 31 07.69	+82 54 29.8	18.1	RqEN160S85
CK19N010	KC2019 07 09.96210	21 31 07.19	+82 54 30.6	18.1	RqEN160S85
CK19N010	KC2019 07 09.99220	21 30 57.67	+82 54 45.9	18.4	RoEN160K88
CK19N010	KC2019 07 09.99785	21 30 55.82	+82 54 48.6	18.3	RoEN160K88
CK19N010	KC2019 07 10.00350	21 30 53.92	+82 54 51.4	18.3	RoEN160K88
CK19N010	KC2019 07 10.07688	21 30 30.64	+82 55 27.1	19.1	VqEN160A77
CK19N010	IC2019 07 10.08625	21 30 27.61	+82 55 30.6	17.7	VqEN160A77
CK19N010	KC2019 07 10.85518	21 26 19.40	+83 01 40.3	18.6	GVEN160S95
CK19N010	KC2019 07 10.86669	21 26 15.84	+83 01 46.0	18.7	GVEN160S95
CK19N010	KC2019 07 10.87820	21 26 12.07	+83 01 52.7	18.9	GVEN160S95
CK19N010	KC2019 07 10.93942	21 25 51.33	+83 02 19.1	17.3	RcEN160J57
CK19N010	KC2019 07 10.94098	21 25 50.92	+83 02 19.7	17.2	RcEN160J57
CK19N010	KC2019 07 10.94376	21 25 49.91	+83 02 21.1	17.5	RcEN160J57
CK19N010	KC2019 07 10.95708	21 25 45.87	+83 02 29.8	18.4	RVEN160K63
CK19N010	KC2019 07 10.96184	21 25 44.13	+83 02 32.2	17.5	RVEN160K63
CK19N010	KC2019 07 10.96622	21 25 42.71	+83 02 34.0	18.1	RVEN160K63
CK19N010	KC2019 07 10.97110121	25 41.19	+83 02 36.1	18.5	GVEN160C95
CK19N010	KC2019 07 10.97984621	25 37.91	+83 02 40.1	18.4	GVEN160C95
CK19N010	KC2019 07 10.98859321	25 35.38	+83 02 44.7	18.7	GVEN160C95
CK19N010	KC2019 07 10.99733821	25 32.20	+83 02 48.5	18.4	GVEN160C95
CK19N010	C2019 07 11.56928921	22 19.28	+83 07 14.6	18.70o	VEN160T08
CK19N010	C2019 07 11.57279221	22 17.90	+83 07 17.0	18.65o	VEN160T08
CK19N010	C2019 07 11.57972621	22 15.37	+83 07 19.1	18.53o	VEN160T08
CK19N010	C2019 07 11.59135421	22 11.41	+83 07 25.4	18.70o	VEN160T08
CK19N010	C2019 07 11.93569	21 20 13.46	+83 10 00.3	17.7	R EN160L33
CK19N010	C2019 07 11.94971	21 20 08.19	+83 10 07.3	17.9	R EN160L33

Observer details:

- 104 San Marcello Pistoiese. Observers P. Bacci, M. Maestriepieri.
Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m reflector + CCD.
- 204 Schiaparelli Observatory. Observer L. Buzzi. 0.84-m f/3.5 reflector + CCD.
- 585 Kyiv comet station. Observer A. Baransky. 0.7-m f/4 reflector + CCD.
- 595 Farra d'Isonzo. Observers L. Bittesini, E. Pettarin.
Measurer E. Pettarin. 0.40-m f/5.15 reflector + CCD.
- A17 Guidestar Observatory, Weinheim. Observers M. Emmerich, S. Melchert.
0.36-m f/6 Schmidt-Cassegrain + CCD.
- A77 Observatoire Chante-Perdrix, Dauban. Observers C. Rinner, F. Kugel.
Measurer F. Kugel. 0.4-m f/2.8 reflector + CCD.
- C95 SATINO Remote Observatory, Haute Provence. Observer J. Jahn.
0.60-m f/3.2 Newtonian reflector + CCD.
- F65 Haleakala-Faulkes Telescope North. Observers J. D. Armstrong, S. R. Moss.
2.0-m f/10 reflector + CCD.
- G40 Slooh.com Canary Islands Observatory. Observers J. Maes, B. Lutkenhoner,
G. Gasparovic, Y. Chen. Measurers J. Maes, B. Lutkenhoner, G. Gasparovic,
Y. Chen, G. Y. Gasparovic. 0.5-m f/6.8 Corrected Dall-Kirkham + CCD,
0.43-m f/6.8 Corrected Dall-Kirkham + CCD.
- H06 iTelescope Observatory, Mayhill. Observer H. Sato.
0.43-m f/6.8 astrograph + CCD + f/4.5 focal reducer.
- J57 Centro Astronomico Alto Turia, Valencia. Observers A. Carrero, E. Arce,
L. Rivas. Measurers V. Mas, G. Fornas, S. Crespo, P. Rosillo.
0.40-m f/10 Schmidt-Cassegrain + CCD.
- K38 M57 Observatory, Saltrio. Observer G. Baj.
0.3-m f/5.5 Ritchey-Chretien + CCD.
- K63 G. Pascoli Observatory, Castelvechio Pascoli. Observer R. Bacci.
0.41-m f/3.2 Newtonian reflector + CCD.
- K88 GINOP-KHK, Piszkesteto. Observer K. Sarneczky. 0.60-m Schmidt + CCD.
- L01 Visnjan Observatory, Tican. Observer K. Korlevic.
1.0-m f/2.9 reflector + CCD.
- L33 Ananjev. Observer N. Mishevskiy. Measurers N. Mishevskiy, S. Khlamov.
0.25-m f/4.7 reflector + CCD.
- T05 ATLAS-HKO, Haleakala. Observers L. Denneau, J. Tonry, A. Heinze,
H. Weiland, H. Flewelling. Measurers L. Denneau, J. Tonry, A. Heinze,
H. Weiland, H. Flewelling, B. Stalder, A. Fitzsimmons, D. Young,
N. Erasmus. 0.5-m reflector + CCD.
- T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, J. Tonry, A. Heinze,
H. Weiland, H. Flewelling. Measurers L. Denneau, J. Tonry, A. Heinze,
H. Weiland, H. Flewelling, B. Stalder, A. Fitzsimmons, D. Young,
N. Erasmus. 0.5-m reflector + CCD.
- U69 iTelescope SRO Observatory, Auberry. Observer H. Sato.
0.61-m f/6.5 astrograph + CCD.

Orbital elements:

C/2019 N1 (ATLAS)
 Epoch 2020 Dec. 17.0 TT = JDT 2459200.5
 T 2020 Dec. 2.26467 TT
 q 1.7038131 (2000.0) P Q
 z +0.0008607 Peri. 193.52467 -0.93794578 +0.25739228
 +/-0.0004881 Node 13.55859 -0.14441024 +0.31936691
 e 0.9985336 Incl. 82.42548 -0.31528303 -0.91200548
 From 101 observations 2019 June 10-July 11, mean residual 0".4.

C/2019 N1 (ATLAS)
 Epoch 2019 Apr. 27.0 TT = JDT 2458600.5
 T 2020 Dec. 2.28928 TT
 q 1.7041863 (2000.0) P Q
 z +0.0009114 Peri. 193.51357 -0.93788339 +0.25724362
 +/-0.0004881 Node 13.58335 -0.14484684 +0.31942921
 e 0.9984468 Incl. 82.42474 -0.31526837 -0.91202560
 From 101 observations 2019 June 10-July 11, mean residual 0".4.

Ephemeris:

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1
2019 06 15		22 40 02.0	+78 34 00	6.2873	6.0108	69.7	9.1	19.3
...								
2019 06 30		22 11 29.0	+81 20 21	6.1191	5.8847	72.0	9.5	19.1
...								
2019 07 08		21 40 55.6	+82 37 51	6.0277	5.8170	73.3	9.6	19.0
...								
2019 07 14		21 07 41.1	+83 24 39	5.9586	5.7662	74.2	9.8	19.0
2019 07 15		21 01 11.4	+83 31 08	5.9471	5.7577	74.4	9.8	19.0
2019 07 16		20 54 25.4	+83 37 09	5.9356	5.7492	74.6	9.8	19.0
...								
2019 07 22		20 08 45.3	+84 02 33	5.8664	5.6981	75.5	9.9	18.9
...								
2019 07 30		19 01 06.4	+84 02 32	5.7745	5.6299	76.8	10.1	18.8
...								
2019 08 14		17 21 39.8	+82 23 43	5.6041	5.5012	79.0	10.4	18.6

M. P. C. Staff (C) Copyright 2019 MPC M.P.E.C. 2019-N160

◀ [Read MPEC 2019-N159](#) ▶ [Read MPEC 2019-001](#)

Display 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)