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MPEC 2021-T169 : COMET C/2021 T2 (Fuls)

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M.P.E.C. 2021-T169

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COMET C/2021 T2 (Fuls)

D. C. Fuls reports the discovery of a comet in survey images taken on Oct. 2 UT by Mt. Lemmon Survey (G96), noting a condensed 7".5 coma. Additional reports of cometary features are as follows:

OC	Date	Reporter	Coma	Tail	PA	Exposures
G96	2021-10-03	D. C. Fuls	8".6	8"	320	
H06	2021-10-04	H. Sato	6"			14x60s
B49	2021-10-05	J. Camarasa	13"			

Observations:

CK21T020*	C2021	10 02.37616004	12 26.31	+46 16 03.0		19.87GVET169G96
CK21T020	C2021	10 02.38157704	12 26.00	+46 16 02.4		20.02GVET169G96
CK21T020	C2021	10 02.38701604	12 25.61	+46 16 01.5		20.16GVET169G96
CK21T020	C2021	10 02.39244304	12 25.23	+46 16 01.0		20.36GVET169G96
CK21T020	mC2021	10 02.45776804	12 20.59	+46 15 54.2		20.04GVET169G96
CK21T020	mC2021	10 02.46541304	12 20.09	+46 15 53.4		20.27GVET169G96
CK21T020	mC2021	10 02.47249604	12 19.55	+46 15 52.4		VET169G96
CK21T020	mC2021	10 02.47979704	12 19.03	+46 15 51.3		VET169G96
CK21T020	KC2021	10 03.04407 04	11 39.67	+46 14 49.4		qET169104
CK21T020	KC2021	10 03.07624 04	11 37.34	+46 14 46.6		19.6 RqET169104
CK21T020	KC2021	10 03.10126 04	11 35.57	+46 14 43.8		19.7 RqET169104
CK21T020	9C2021	10 03.11213 04	11 34.92	+46 14 43.8		19.9 GVET169G40
CK21T020	9C2021	10 03.12862 04	11 33.68	+46 14 41.4		20.2 GVET169G40
CK21T020	KC2021	10 03.31970004	11 20.19	+46 14 18.9		20.16GVET169G96
CK21T020	KC2021	10 03.35456104	11 17.63	+46 14 15.4		19.88GVET169G96
CK21T020	KC2021	10 03.36114604	11 17.13	+46 14 14.7		19.88GVET169G96
CK21T020	KC2021	10 03.36774404	11 16.65	+46 14 13.8		19.90GVET169G96
CK21T020	C2021	10 04.28071 04	10 10.21	+46 12 21.7		VET169H06
CK21T020	C2021	10 04.28681 04	10 09.79	+46 12 20.7		19.6 GVET169H06
CK21T020	KC2021	10 04.38287 04	10 02.51	+46 12 09.6		20.1 GVET169734
CK21T020	KC2021	10 04.38778 04	10 02.07	+46 12 08.9		19.8 GVET169734
CK21T020	KC2021	10 04.39752 04	10 01.37	+46 12 07.7		20.3 GVET169734
CK21T020	KC2021	10 04.97806104	09 17.73	+46 10 51.5		19.5 GVET169B49
CK21T020	KC2021	10 05.00734404	09 15.70	+46 10 46.5		20.0 GVET169B49
CK21T020	KC2021	10 05.01133704	09 15.41	+46 10 46.1		19.4 GVET169B49
CK21T020	KC2021	10 05.01531804	09 15.13	+46 10 46.6		19.7 GVET169B49
CK21T020	C2021	10 06.45294 04	07 22.69	+46 07 14.4		20.1 RVET169673
CK21T020	C2021	10 06.46950 04	07 21.28	+46 07 11.8		VET169673
CK21T020	KC2021	10 06.95151404	06 42.47	+46 05 53.6		20.1 GVET169L06
CK21T020	KC2021	10 06.95254004	06 42.39	+46 05 53.5		19.7 GVET169L06
CK21T020	KC2021	10 06.95315504	06 42.36	+46 05 52.7		19.8 GVET169L06
CK21T020	KC2021	10 06.98967 04	06 39.42	+46 05 47.1		20.0 GVET169I93
CK21T020	KC2021	10 06.99663 04	06 38.78	+46 05 45.9		20.2 GVET169I93
CK21T020	KC2021	10 07.00358 04	06 38.23	+46 05 44.5		19.9 GVET169I93
CK21T020	KC2021	10 07.87874 04	05 25.76	+46 03 12.4		19.7 GVET169G02
CK21T020	KC2021	10 07.88929 04	05 24.89	+46 03 11.3		19.9 GVET169G02
CK21T020	KC2021	10 07.89146 04	05 24.76	+46 03 10.4		19.1 GXET169J57
CK21T020	KC2021	10 07.89683 04	05 24.32	+46 03 09.4		19.6 GXET169J57
CK21T020	KC2021	10 07.89986 04	05 24.02	+46 03 08.7		19.8 GVET169G02

Observer details:

104 San Marcello Pistoiese. Observers P. Bacci, M. Maestripieri. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m reflector + CCD.

673 Table Mountain Observatory, Wrightwood. Observer J. Pittichova. 1.0-m f/15 reflector + CCD.
734 Farpoint Observatory, Eskridge. Observers G. Hug, D. Cromer, D. Goodin, R. Valentine. Measurer G. Hug. 0.7-m reflector + CCD.
B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m f/4.0 reflector + CCD.
G02 KYSUCE Observatory, Kysucke Nove Mesto. Observer M. Urbanik. 0.40-m f/4.5 Corrected Dall-Kirkham + CCD.
G40 Slooh.com Canary Islands Observatory. Observer B. Lutkenhoner. 0.5-m f/6.8 Corrected Dall-Kirkham + CCD.
G96 Mt. Lemmon 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, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzbos. 1.5-m reflector + 10K CCD.
H06 iTelescope Observatory, Mayhill. Observer H. Sato. 0.43-m f/6.8 astrograph + CCD + f/4.5 focal reducer.
I93 St Pardon de Conques. Observer F. Losse. 0.40-m f/3.7 reflector + CCD.
J57 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.
L06 Sormano 2 Observatory, Bellagio Via Lattea. Observer G. Ventre. Measurer P. Sicoli. 0.36-m Schmidt-Cassegrain + CCD.

Orbital elements:

C/2021 T2 (Fuls)
Epoch 2022 May 21.0 TT = JDT 2459720.5
T 2022 June 7.54342 TT
q 1.2445023 (2000.0) P Q
z +0.0000141 Peri. 263.69031 +0.39419668 -0.68921337
+/-0.0000001 Node 223.25079 +0.11349914 -0.61993379
e 0.9999825 Incl. 117.46943 -0.91199064 -0.37505602
From 39 observations 2021 Oct. 2-7, mean residual 0".5.

C/2021 T2 (Fuls)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 June 7.56167 TT
q 1.2446718 (2000.0) P Q
z +0.0000954 Peri. 263.68642 +0.39424667 -0.68923249
+/-0.0000001 Node 223.24695 +0.11349073 -0.61988657
e 0.9998813 Incl. 117.47138 -0.91197007 -0.37509893
From 39 observations 2021 Oct. 2-7, mean residual 0".5.

Ephemeris:

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1	m2
2021 09 08		04 28 34.1	+46 19 23	3.5945	3.7697	92.2	15.5	20.5	
...									
2021 09 23		04 21 18.9	+46 24 51	3.1977	3.6151	106.6	15.4	20.1	
...									
2021 10 01		04 13 58.6	+46 18 14	2.9920	3.5320	114.9	14.9	19.9	
...									
2021 10 07		04 06 38.4	+46 05 46	2.8432	3.4694	121.3	14.3	19.7	
2021 10 08		04 05 15.4	+46 02 53	2.8190	3.4589	122.4	14.1	19.6	
2021 10 09		04 03 49.7	+45 59 44	2.7949	3.4484	123.5	14.0	19.6	
...									
2021 10 15		03 54 16.0	+45 34 37	2.6552	3.3855	130.2	13.0	19.4	
...									
2021 10 23		03 38 58.2	+44 40 42	2.4830	3.3011	139.2	11.4	19.2	
...									
2021 11 07		03 03 53.4	+41 33 28	2.2187	3.1419	154.4	7.8	18.7	

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