Circular No. 8637

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COMET C/2004 YJ_{35} (LINEAR)

An apparently asteroidal object discovered by the LINEAR project (discovery observation below from *MPEC* 2005-A47 and *MPS* 124152) has been found by S. S. Sheppard to have a centrally condensed coma with a tail $\sim 1''.5$ wide and $\sim 10''$ long in p.a. 330° on CCD frames taken on Nov. 30.34 and Dec. 1.33 UT with the Dupont 2.5-m reflector at Las Campanas (*MPEC* 2005-X12; T = 2005 Mar. 3, q = 1.78 AU, i = 52°, e = 0.9999).

2004 UT	α_{2000}	δ_{2000}	Mag.
Dec. 31.07192	$21^h09^m18^s.11$	$+69°18'19''.5$	19.4

COMET 101P/CHERNYKH

E. J. Christensen has found an object with a well-condensed 15″ coma moving $\sim 21'.5$ ahead of what has been presumed to be the primary component of comet 101P (corresponding to $\Delta T = -0.9$ day) on 90-s images taken with the Catalina Sky Survey 0.68-m Schmidt telescope on Nov. 30.2 UT; his Dec. 2.2 images show a 15″ asymmetric coma elongated in p.a. 50° (the $\sim$ 2.5-mag-brighter component showing a 10″ central condensation surrounded by a 1′ asymmetric coma also oriented in p.a. 50°). Observations with the Mt. Lemmon Survey 1.5-m reflector by A. D. Grauer and E. C. Beshore on Dec. 1.2 show this fainter component to have a broad 10″–15″ tail in p.a. $\sim$ 57°. The available astrometry is provided below. Following the reasoning by Sekanina (*IAUC* 5391), it is unlikely that the companion observed in 1991 (*IAUC* 5347) has survived.

2005 UT	α_{2000}	δ_{2000}	Mag.	*Observer*
Nov. 30.19707	$0^h19^m57^s.46$	$-4°57'00''.8$	17.8	Christensen
30.20586	0 19 57.82	−4 56 58.5	17.9	"
30.21450	0 19 58.15	−4 56 55.7	18.3	"
30.22309	0 19 58.44	−4 56 51.7	18.2	"
Dec. 1.23064	0 20 36.93	−4 50 52.2	17.9	Grauer
1.23152	0 20 36.97	−4 50 51.8	18.1	"
1.23241	0 20 36.99	−4 50 51.4	18.2	"
1.23329	0 20 36.95	−4 50 51.9		"
2.20865	0 21 15.62	−4 44 53.9	17.9	Christensen
2.21893	0 21 15.98	−4 44 49.8	18.3	"
2.22922	0 21 16.45	−4 44 46.3	18.1	"
2.23962	0 21 16.81	−4 44 43.0	17.8	"

2005 December 2 *Daniel W. E. Green*