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Subscriptions
On-line IAUCs
On-line CBETs
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MPC RSS Feeds
Search IAUCs/CBETs

Discoveries

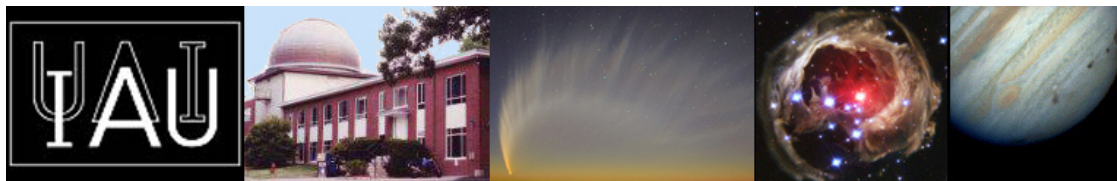
Astronomical Headlines
TOCP
Press Information Sheets
What to Report
How to Report

Lists

Supernovae List
Nova List
Comet magnitudes
Comets
Edgar Wilson Award
Minor-Planet Satellites

Links

CBAT
IAU Commission 6
Cometary Science Center
Minor Planet Center
Origins/Harvard
EPS/Harvard



IAUC 9133: C/2010 G1; C/2010 F4

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IAUC number

Circular No. 9133

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COMET C/2010 G1 (BOATTINI)

A. Boattini, Lunar and Planetary Laboratory, University of Arizona, reports his discovery of a comet on Catalina Sky Survey CCD images taken with the 0.68-m Schmidt telescope (discovery observation tabulated below), the object described as diffuse with a strong, condensed coma about 40" in size, and a fainter coma out to a diameter about 2' that fades into the background; the coma is slightly elongated in p.a. 50-55 deg. After posting on the Minor Planet Center's 'NEOCP' webpage, other CCD astrometrists have commented on the object's cometary appearance during Apr. 5.2-6.1 UT, including A. R. Gibbs with the Mt. Lemmon 1.5-m reflector (four co-added 5-s exposures at altitude 20 deg show a core surrounded by 'fuzziness', of size 16" x 23"), R. Ligustri (Udine, Italy, 0.35-m reflector; sixteen 60-s exposures; 30" coma), E. Pettarin (Farra d'Isonzo, Italy, 0.40-m reflector; elongated 10"-15" coma), F. Castellani and C. Marangoni (Malcesine, Italy, 0.4-m reflector; 37" coma and a 1'16" tail in p.a. 70 deg), P. Birtwhistle (Great Shefford, Berkshire, England, 0.40-m reflector, bright twilight; coma diameter 15" and tail 30" long in p.a. 65 deg), L. Buzzi (Varese, Italy, 0.60-m reflector; stacked exposures totally 10 min; condensed coma elongated in p.a. about 35-40 deg and extending to a diameter of at least 60"), and J. E. McGaha (Tucson, AZ, U.S.A., 0.36-m reflector; ten stacked 30-s exposures; 7" bright nuclear condensation with a round 20" coma and a 10"-wide tail 45" long in p.a. 40 deg).

2010 UT	R.A. (2000)	Decl.	Mag.	Observer
Apr. 5.12030	4 08 50.37	+27 39 02.3	13.9	Boattini

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on [MPEC 2010-G27](#).

T = 2010 Apr. 6.688 TT	Peri. = 172.955
q = 1.20110 AU	Node = 287.856 2000.0
	Incl. = 76.780

COMET C/2010 F4 (MACHHOLZ)

Further to [IAUC 9132](#), images by McGaha (see above) on Mar. 27.5 UT show a bright central nuclear condensation 10" in diameter with a round coma 40" in diameter. Additional visual total-magnitude and coma-diameter estimates: Mar. 27.18, 10.7, 1'.5 (J. J. Gonzalez, Asturias, Spain, 0.20-m reflector); 27.528, 11.3, 3' (D. Machholz, Colfax, CA, 0.47-m refl.).

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2010 April 6

Daniel W. E. Green

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