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A new periodic comet observed in 1960

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Citation

Houten, C. J. van, & Houten-Groeneveld, I. van. (1966). A new periodic comet observed in 1960. *Bulletin Of The Astronomical Institutes Of The Netherlands*, 18, 441. Retrieved from <https://hdl.handle.net/1887/5879>

Version: Not Applicable (or Unknown)

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Note: To cite this publication please use the final published version (if applicable).

NOTE

A NEW PERIODIC COMET, OBSERVED IN 1960

In September and October 1960 plates were taken for a survey of faint asteroids with the 48-inch Schmidt camera of the Mt. Palomar Observatory, by Dr. T. Gehrels of the Lunar and Planetary Observatory, Tucson. During the blinking of the plates by the authors a moving object was found which was conspicuous by its hazy appearance. This raised the suspicion that it might be a comet. Orbital elements have been computed by Dr. P. Herget of the Cincinnati Observatory, with the following results:

$$\begin{aligned} a &= 6.2831 & \omega &= 14.937 \\ e &= 0.3731 & \Omega &= 23.004 \\ i &= 6.617 & M_0 &= 346.32 \\ n &= 225.29 & T_0 &= 1960 \text{ September } 23 \end{aligned}$$

As this cannot be the orbit of a normal asteroid, the identification of the object as a comet may be regarded as confirmed by the orbital elements. The comet does not occur in the latest list of cometary orbits by PORTER (1961).

The observations, together with the residuals with respect to the orbital elements given above, are shown in the table below.

31 March 1966

C. J. VAN HOUTEN

I. VAN HOUTEN-GROENEVELD

Reference

J. G. PORTER, 1961, *Mem. British Astr. Ass.* 39 No. 3

Date	α (1950)	δ	$(O-C)_\alpha$	$(O-C)_\delta$	m_{pg}
1960 Sept. 24.41183	0 ^h 35 ^m 34 ^s .93	+1°10'33".5	0".0	0".0	17.0
Sept. 26.63153	0 34 34.63	+1 6 23.8	0.0	+ 1.0	16.9
Sept. 27.40836	0 33 59.57	+1 4 1.7	0.0	0.0	
Sept. 28.39725	0 33 27.78	+1 1 52.3	+ 0.1	- 0.1	17.1
Oct. 17.31529	0 23 30.22	+0 24 15.3	- 0.3	- 0.5	17.5
Oct. 22.26809	0 21 10.86	+0 16 50.1	+ 0.8	+ 0.1	17.4
Oct. 25.30351	0 19 52.06	+0 13 2.5	- 1.0	+ 1.4	
Oct. 26.35766	0 19 25.86	+0 11 54.3	0.0	0.0	17.0

**ABSTRACTS OF BULLETIN OF THE ASTRONOMICAL INSTITUTES
OF THE NETHERLANDS SUPPLEMENT SERIES**

Supplement Series Volume 1, No. 4

**DWINGELOO ATLAS OF 21-cm PROFILES, PART III, WITH A
REPRESENTATION IN GAUSSIAN COMPONENTS**

PER OLOF LINDBLAD

Communication from the Netherlands Foundation for Radio Astronomy and
the Observatory at Leiden

An atlas of 245 21-cm profiles around the direction of the galactic anti-centre is presented. The main part of this material together with 130 additional profiles in the same region are presented in the form of Gaussian parameters. They are the result of a Gaussian analysis performed on the corresponding profiles of optical depths.