

RESULTS OF OBSERVATIONS OF THE DUAL STATUS OBJECT 2008GO98 (362P)**IN 2017.** G.I..Kokhirova¹ A.V.Ivanova², F.Dzh..Rakhmatullaeva¹, A..Baransky³¹ Institute of Astrophysics of the National Academy of Sciences of Tajikistan²Astronomical Institute of the Slovak Academy of Sciences³Astronomical Observatory named after T. Shevchenko Kyiv National University

The paper presents the results of optical observations of the dual status object 2008 GO98 (362P) which were performed at the Sanglokh Observatory (Institute of Astrophysics NAST) and at the Astronomical Observatory (Taras Shevchenko National University of Kyiv) in July-September 2017. During monitoring, the object has showed a sign of comet activity as a dust coma and tail, the presence of which was confirmed by the results of the study of image morphology. The apparent and absolute magnitudes of the object in the R band are determined, their gradual decrease during the observation period is shown, which indicates a ceasing of activity by the end of monitoring. The estimation of the objects effective

diameter from our observations of ~ 7 km is consistent with the available data. The obtained new data proposed the cometary nature of the object. The equatorial coordinates of the object were determined, the sufficient accuracy of astrometric measurements made it possible to calculate the orbit, the elements of which are consistent with the accessible orbital data. Object activity did not affect the stability of it orbit.

Key words: *dual status object, asteroid, comet, activity, observations, photometry, light curve, diameter, morphology, astrometry, coordinates, orbit.*