



# Photometry and imaging of Comet 103P/Hartley in the 2010?2011 apparition

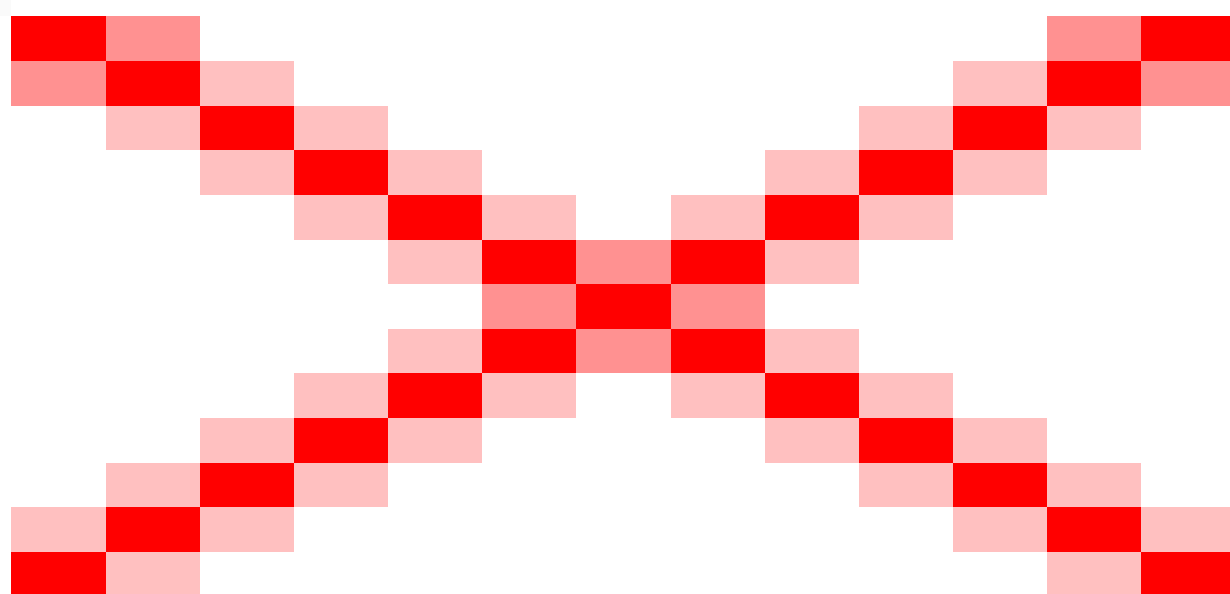


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Un altro traguardo raggiunto dagli astrofili che collaborano con la ricerca.

Nell'ambito del [Progetto CARA](#) [1] due nostri soci (Giannantonio Milani e Carlo Vinante) sono coinvolti in progetti di ricerca internazionali, sulle comete.

In pubblicazione sul numero di Febbraio di *Icarus* (Elsevier) un articolo sulla cometa 103P dal titolo **Photometry and imaging of Comet 103P/Hartley in the 2010?2011 apparition**.



[2]

## abstract

The results of a CARA (Cometary Archive for Af?) campaign on Comet 103P/Hartley 2 are presented. The main goal was to monitor extensively the comet during the apparition with CCD R and I imaging and photometry, as a support of EPOXI mission.

The Af? quantity showed a progressively rising ascending branch, followed by an apparent flat maximum that lasted for 2 months, from about -10 to +50 days from perihelion. In this period, Afq peaked at around 100 cm in R band with strong short term fluctuations between 70 and 140 cm. Early signs of activity were detectable well before perihelion (about 80?90 days before) and a random variability is also present in the descending branch after perihelion. Three post perihelion data points (between +55 and +61 days) from the 1997?1998 apparition show a bit higher Af? value of our observation and a similar fast variation.

The average Af $\beta$  behavior, corrected for the solar phase effect, is strongly asymmetric and shows a more steeper ascending branch, approaching to perihelion.

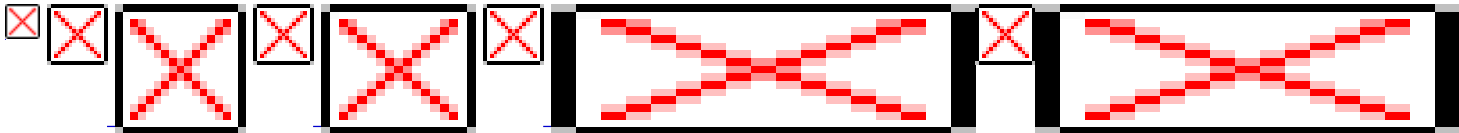
Morphology and coma asymmetry, as well as the sunward and tailward profiles are examined. An average gradient indicatively between  $\sim 0.7$  and  $1$  is observed in the inner coma ( $r < 2000$  km). Ten small amplitude outbursts have been detected and two ones were suspected.

- [Osservazione e Ricerca](#) [3]

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- Links:**
- [1] <http://www.astronomia-euganea.it/drupal/aae/cara>
  - [2] <https://www.astronomia-euganea.it/drupal/sites/default/files/articoli/icarus-103p.png>
  - [3] <https://www.astronomia-euganea.it/drupal/category/attivita%20/osservazione-e-ricerca>