



Pubblicata su **Associazione Astronomica Euganea** (<https://www.astronomia-euganea.it/drupal>)

[Home](#) > [PDF Printer-friendly](#) > PDF Printer-friendly

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

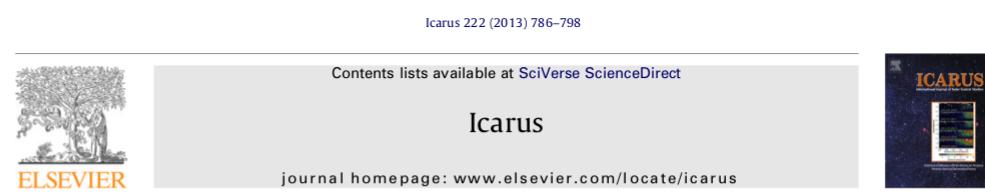
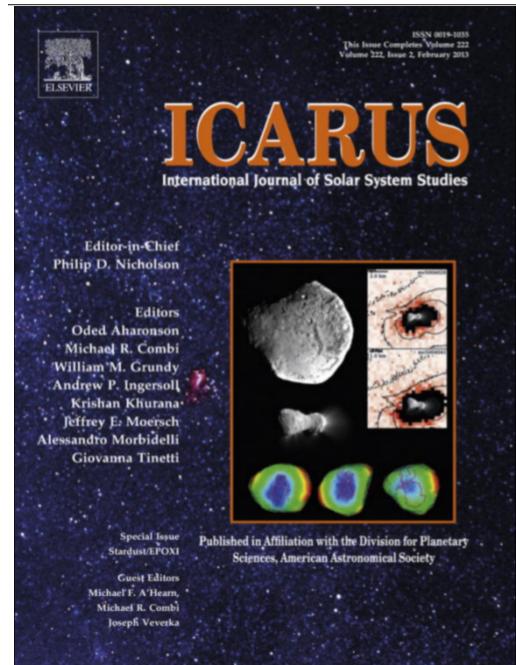


Inviato da admin il Mer, 13/02/2013 - 15:43

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.**



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

Giannantonio Milani ^{a,b,s,*}, Erik Bryssinck ^{c,a}, Martino Nicolini ^{d,a}, Herman Mikuž ^{e,a}, Giovanni Sostero ^{f,a}, Paolo Bacci ^{g,a}, Walter Borghini ^{h,a}, Dario Castellano ^a, Mauro Facchini ^{d,a}, Giancarlo Favero ^{i,a}, Gianni Galli ^{j,a}, Ernesto Guido ^{f,a}, Bernhard Hausler ^{k,a}, Kamil Hornoch ^{i,a}, Nick Howes ^{m,n,a}, Rolando Ligustri ^{o,a}, Carmen Perrella ^a, Enrico Prosperi ^{p,a}, Jure Skvarč ^{e,a}, Jiří Srba ^{q,a}, Roberto Trabatti ^{r,a}, Carlo Vinante ^{s,a}, Gyula Szabó ^{t,a}

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.

[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? 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 ~ ?0.7 and ?1 is observed in the inner coma (? < 2000 km). Ten small amplitude outbursts have been detected and two ones were suspected.

Osservazione e Ricerca [3]

Tutti i loghi e marchi in questo sito sono di proprietà dei rispettivi proprietari.

I commenti e gli articoli sono di proprietà dei rispettivi autori mentre il resto © dal 2002 ad oggi è di proprietà dell'Associazione Astronomica Euganea.

Associazione Astronomica Euganea

C.F. 92068330288

via C. Battisti, 59D - 35010 LIMENA (PD)

info@astronomia-euganea.it

[Credits](#)



URL di origine (Salvata il 03/05/2024 - 05:05): <https://www.astronomia-euganea.it/drupal/articoli/photometry-and-imaging-comet-103phartley-2010%E2%80%932011-apparition>

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/attivit%C3%A0/osservazione-e-ricerca>