

Only comets that were concurre
spacecrafts during their perihelic
comets, SOHO-2387 (C/2012 U3)
data. However, no targets were

Combining this result with the the
on the suggestions by Knight et al
size Kreutz comets are possibly a

In the future, we plan to conduc
hemisphere (which have better c

We thank Pauline Barmby, Karl Batt
MegaCam, a joint project of CFHT o
of Canada, the Institut National de

within 1-2 days prior to their perihelion
extreme orbit geometries of the
of small members ($D \sim 20\text{m}$) when
still poorly constrained. We care

1. They are transition objects between
2. Solar system bodies at ten-met
3. We have a priori knowledge of
physical properties of larger men
4. Further understanding on the p
to the connection between com

RESULT & FUTURE

Where

1. The U

CONTEXT

The Kreutz sungrazer family is one of the most famous families and contains some of the most important members of the family. Space-based coronagraphs have detected over 20

ently observed by SOHO and the twin STEREO spacecraft passages were considered. We found SOHO-2388, to be nominally within the detection limit (g~23.5). At the fainter end of the theoretical "bottom-line" light curves considered by Marsden et al. (2010, AJ, 139, 926), we concluded that the fainter end of the theoretical estimates is not deeper searchers with facilities in the observing condition of Kreutz comets).

Thanks, Jason Jill and Reto Musci for their discussion and CEA/DAPNIA, at the Canada-France-Hawaii Telescope Sciences de l'Univers of the Centre National de la Recherche Scientifique.

helion. However, due to the
Kreutz-family objects, the states
when they are away from the sun are
about these objects because:

between comets, asteroids and meteoroids
inter-size are poorly studied.

of Kreutz comets, such as their common
members, making detection and further inv

physical properties of these objects will
comets, asteroids and meteoroids.

HOME WORK

e are the sn

Quanzhi Ye¹, Paul A.

University of Western Ontario, L

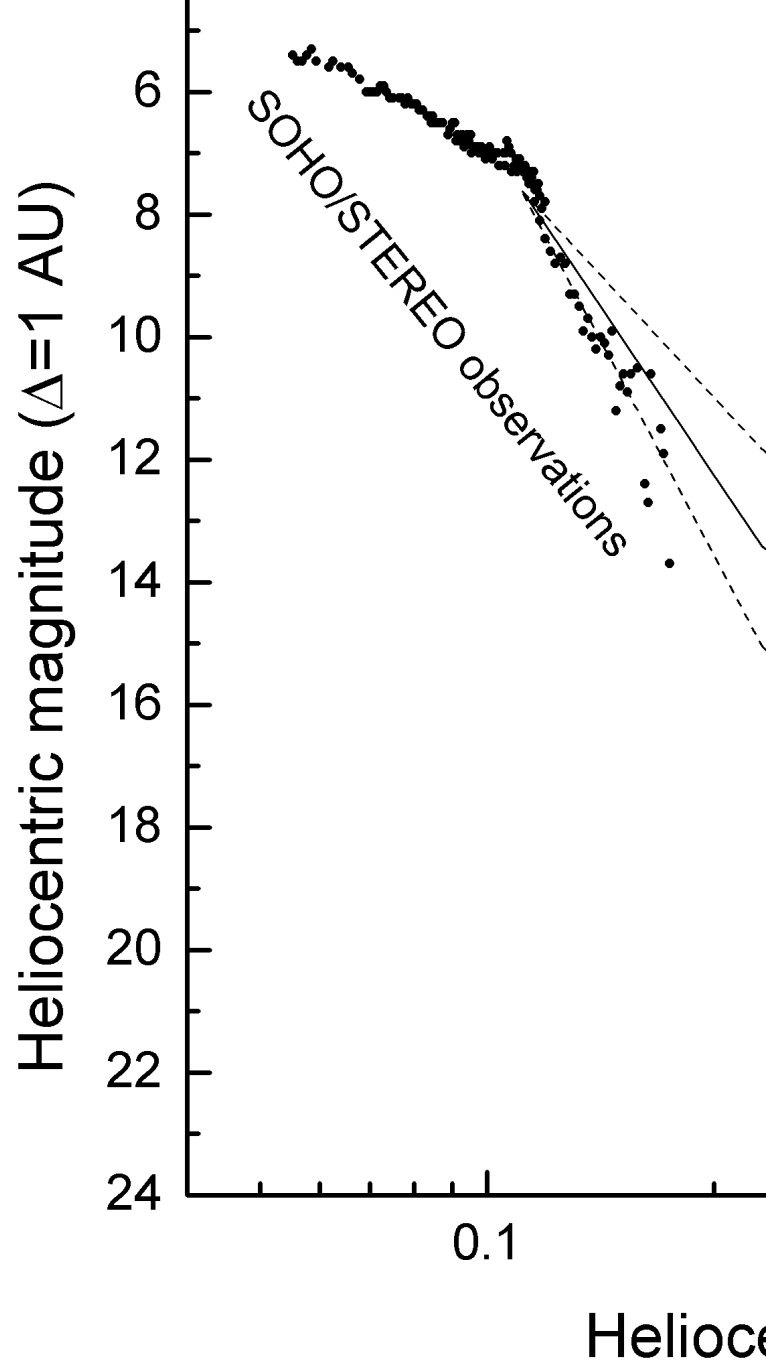
e of the best-known comet
e most spectacular comets in
phs launched in recent
000 Kreutz members, mostly

STEREO

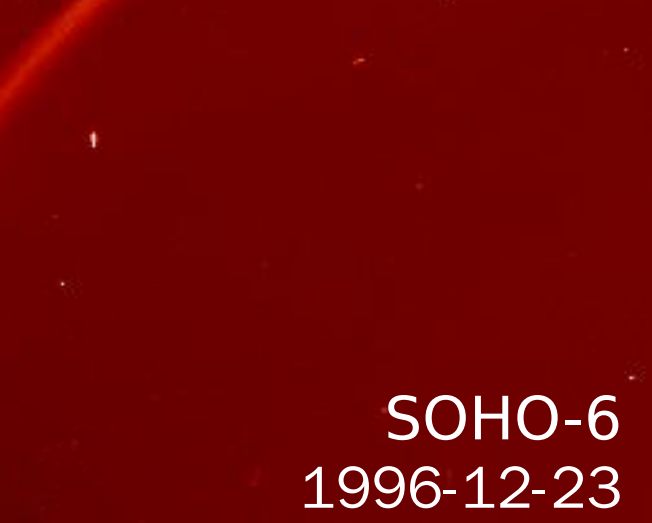
and two such
in our CFHT
().

constructed based
that ten-meter-
mates.

southern



ussion and help. This work based on observ
awaii Telescope (CFHT) which is operated b
nal de la Recherche Scientifique of France,



ds.

orbit and the
vestigation easier.

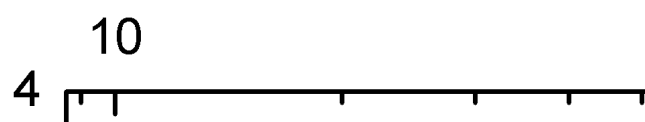
give new insights

detected bright
constraining the

APPRO

Due to the diver
based on the ~ 2
selected regions
have small solar
to $g \sim 23$ with CFHT
allow timely follow
SOHO or STEREO
our CFHT data.

Heliocentric



Small Kreutz-f

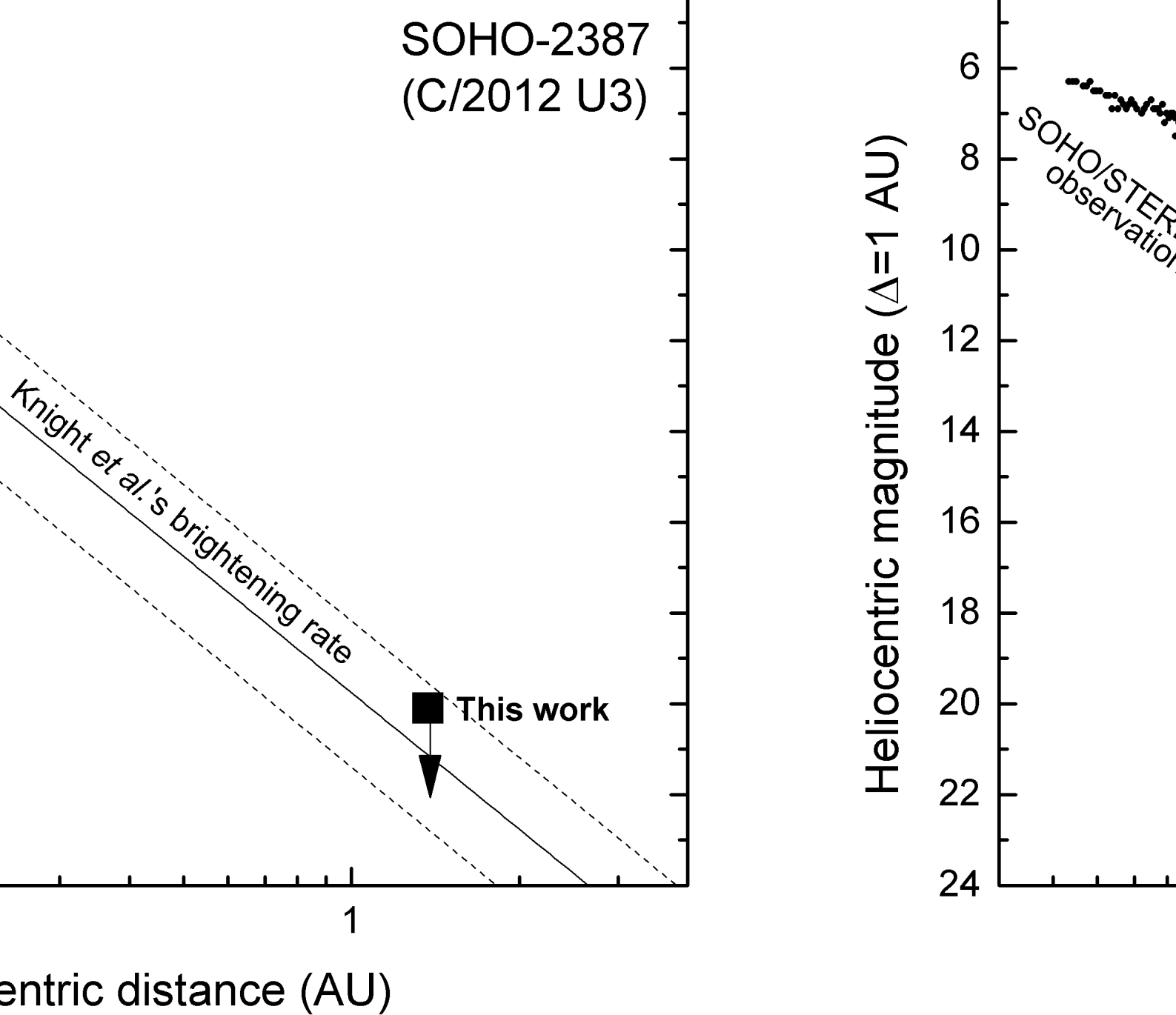
Wiegert¹, Man-To Hui

London, ON, Canada. 2. Guang

AIM



We attempted g
mini Kreutz mem
their brightening
observations we



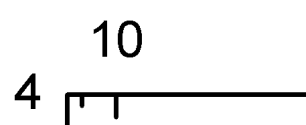
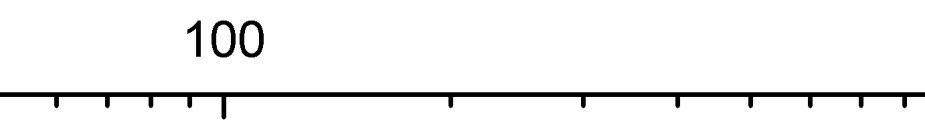
ations obtained with MegaPrime/
by the National Research Council (NRC)
and the University of Hawaii.

members for further
their physical state.

DACH

sity of the orbit of the Kreutz family, we
2000 Kreutz comets detected by space
s that (i) are statistically more likely to c
elongations (~ 50 deg). We were able t
HT/MegaCam. The data was inspected
ow-up of bright comets. Later, after the
spacecrafts, we constructed the orbit

c distance (solar radius)



family members

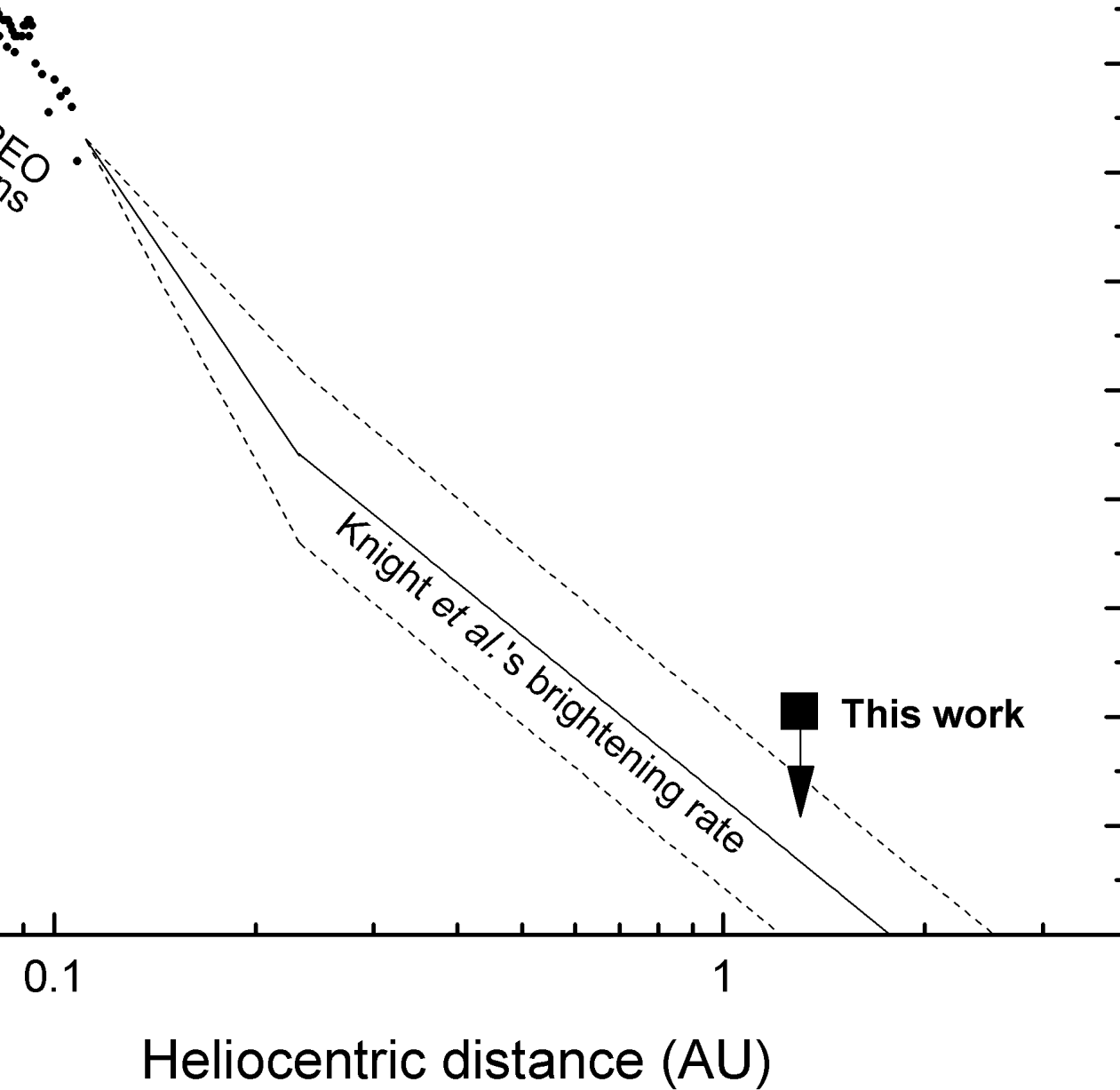
², and Rainer Kracht³

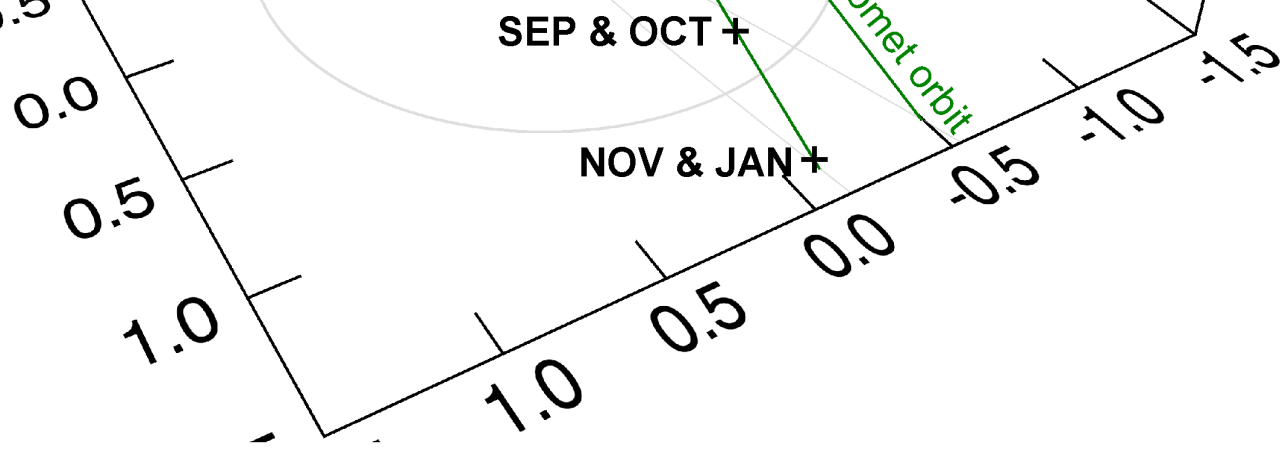
gzhou, China. 3. Elmshorn, Ger

ground-based detections of
bers, hoping to constrain
rate. Follow-up
re planned for any



SOHO-2388





constructed a statistical model
 -based coronagraphs. We then
 contain Kreutz comets, and (ii)
 to cover ~ 10 sq. deg. per night
 and shortly after the acquisition to
 these comets were discovered by
 to determine their visibility in

Heliocentric distance (solar radius)

100

ders?

many.

