

Johnson, Lindley (HQ-DG000)

From: Mainzer, Amy (3266) <Amy.Mainzer@jpl.nasa.gov>
Sent: Wednesday, November 22, 2017 1:14 PM
To: Johnson, Lindley (HQ-DG000); Kelley, Michael S. (HQ-DG000); Fast, Kelly E. (HQ-DG000)
Cc: Fabinsky, Beth E (JPL-7240)[Jet Propulsion Laboratory]; Masiero, Joseph R (JPL-3224)[Jet Propulsion Laboratory]
Subject: NEOWISE status

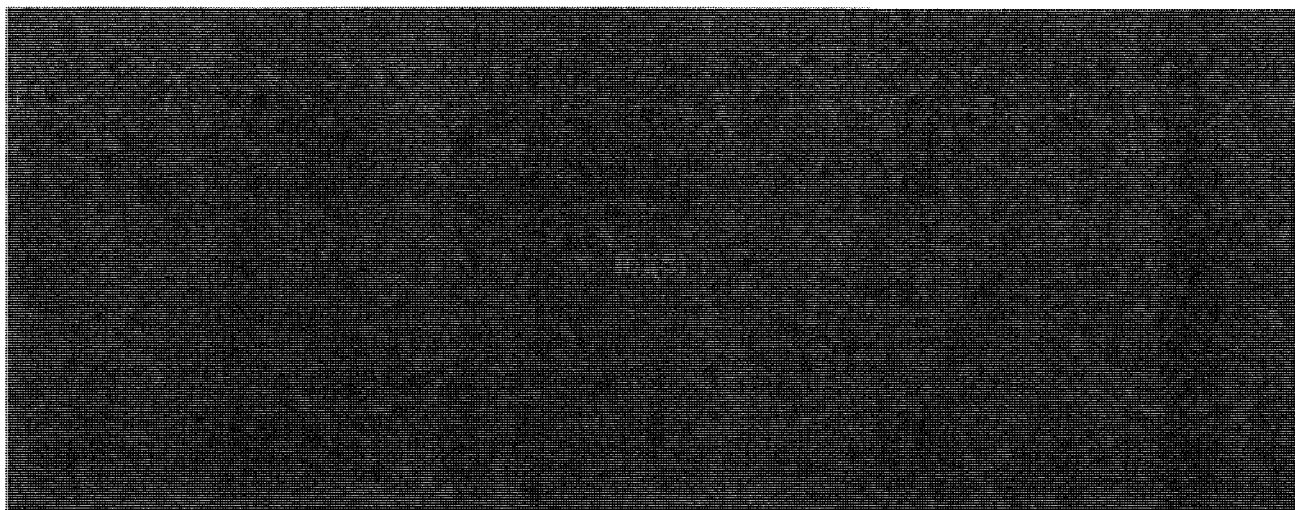
-NEOWISE discovery N00c79x has received followup and was designated in an MPEC as 2017 VT14. This object is a high-eccentricity NEO with Earth MOID=0.004 AU. This NEO has a close pass with Earth ($d=0.009$ AU = 3.5 LD) on 17 Dec 2017. Preliminary thermal fit gives $D\sim 200$ m, $pV\sim 4\%$. We have notified the JPL radar group in case this is a good target for radar observations.

-Candidate object N00c7sk has been posted to the NEOCP and awaits followup.

-A recent paper by Durech et al. (arXiv:1711.05987) uses cryogenic NEOWISE data combined with optical light curves to constrain the sizes and thermal inertias of near-Earth asteroids, allowing them to measure YORP acceleration rates for (161989) Cacus and (tentatively) for (1685) Toro, as well as confirm the previously published YORP rate for (3103) Eger and the measured Yarkovsky acceleration for (2100) Ra-Shalom.

-A recent paper by Marciniak et al. (arXiv:1711.01893) performs detailed thermophysical modeling of 5 large, slow-rotating MBAs using WISE, IRAS, AKARI, lightcurve inversion, and occultations to derive precise sizes and thermal inertias. The authors find that these objects have unusually large inertias for their size, and find sizes that are within 10% of the NEATM-derived values published by the NEOWISE team for 4 objects, and 15% for the last.





Subject: NEOCam: Shape effects on mean radius
Date: Monday, January 4, 2016 at 4:20:22 PM Mountain Standard Time

From: [REDACTED]
To: [REDACTED]
CC: [REDACTED]

Attachments: shape_effects_tss.pdf

Dear [REDACTED]

I've done some [REDACTED] previous [REDACTED] point. I attach [REDACTED] the [REDACTED] I offer this as a start to the discussion [REDACTED]

Best,

(b)(3) (10) USC 2 [REDACTED] (4) (b)(5) (b)(6)

Deletion Page

Requester: Ronald Lee (Arnold & Porter Kay Scholer LLP)
Request #: 18-JPL-F-00247

5 Page(s) is/are being withheld in full and the following marked exemption(s) is/are being claimed.

EXEMPTIONS CLAIMED:

FOIA: 5 U.S.C. § 552

b(1) b(2) b(3): 10 U.S.C. 2305(g)
 b(4) b(5) b(6) b(7)(A) b(7)(C) b(7)(D)
 b(7)(E) b(7)(F)

PRIVACY ACT: 5 U.S.C. § 552a

d(5) j(1) j(2) k(1) k(2) k(3)
 k(4) k(5) k(6) k(7)

Description of Document withheld: Draft report for NEOCam team entitled "shape_effects_tss.pdf."

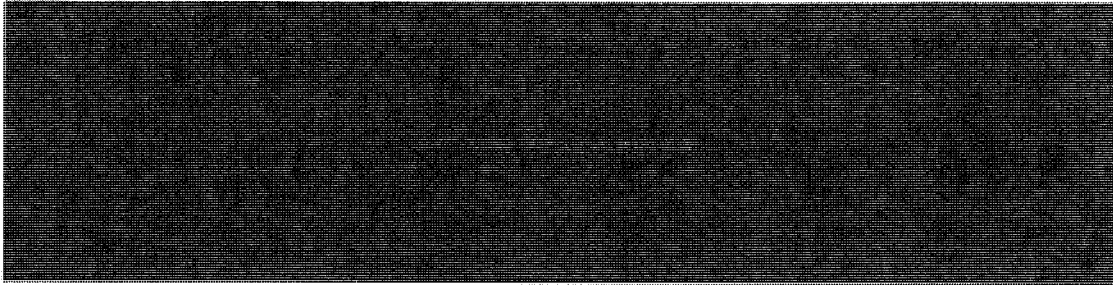
Subject: Re: NEOCam: Shape effects on mean radius

Date: Saturday, January 9, 2016 at 3:13:19 PM Mountain Standard Time

From:

To:

CC:



(b)(3) [FOUO] (b)(5), (b)(6)

Let's do that. If you can [redacted] (in the .det format [redacted], I can run the models.

(b)(3) [FOUO] (b)(5), (b)(6)

On Jan 8, 2016, at 10:01 PM, [redacted] wrote:

(b)(3) [FOUO] Hi [redacted] everyone,

This is really interesting. I'm curious [redacted] then that would be confirmation we are on the right track.

Also, I'm sending [redacted] with a larger sample size, especially), please chime in.

Have a good weekend,

(b)(3) [FOUO] (b)(5), (b)(6)

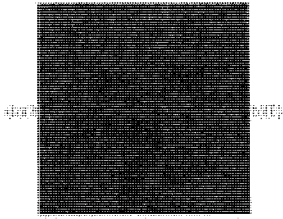
On Mon, Jan 4, 2016 at 3:20 PM, [redacted] wrote:

Dear [redacted],

I've done some [redacted] previous point. I attach [redacted] I offer this as a start to the discussion [redacted]

Best,

(b)(3) [FOUO] (b)(5), (b)(6)



APD Sig Events week end 2016-12-02.docx

Original view

5 pages (displayed on pages 176 to 180)

JET PROPULSION LABORATORY

INTEROFFICE MEMORANDUM

December 2, 2016

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Astrophysics draft FY 2017 CJ.docx

Original view

46 pages (displayed on pages 182 to 227)

(b) (5)

ASTRO-1

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ASTRO-2

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ASTRO-46

Re: NY Times vs NASA and asteroids
