Stardust Allocation Subcommittee report

CAPTEM Nov 9, 2016

Andrew Westphal, Berkeley, Chair Andy Davis, Chicago Philipp Heck, Field Museum Scott Sandford, NASA/ARC George Flynn, SUNY Plattsburgh Rhonda Stroud, Naval Research Lab

Requests and allocations summary Future of Stardust Research white paper

Request summary through 9 Nov16

- #170 Westphal+ 6 interstellar candidates in picokeystones for STXM analysis
- #171 Ebel+ SXRF and Raman analysis of cometary track
- #172 Frank+ Cometary tracks for O isotopes

Compendium maintained on a shared Papers collection

148 refereed publications

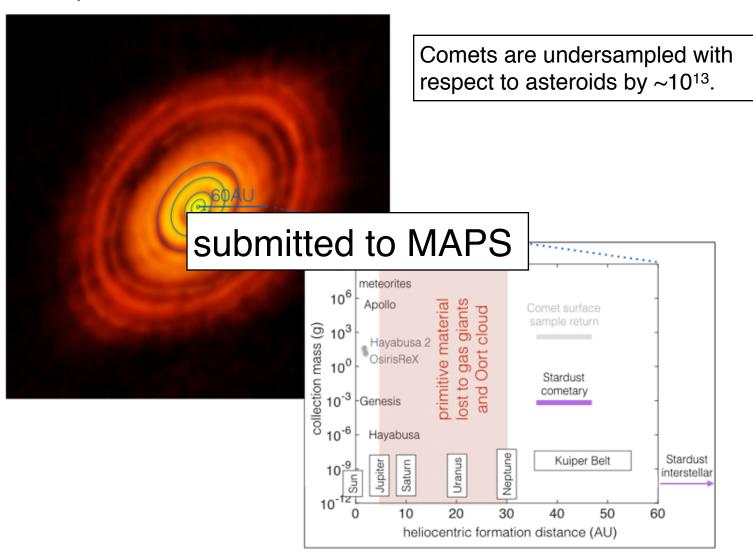


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The Future of Stardust Science A Special Report to NASA Feb 29, 2016

A. J. Westphal¹, J. C. Bridges², D. E. Brownlee³, A. L. Butterworth¹, B. T. De Gregorio⁴, G. Dominguez⁵, Z. Gainsforth¹, G. J. Flynn⁶, H. A. Ishii⁷, D. Joswiak³, L. R. Nittler⁸, R. C. Ogliore⁹, R. O. Pepin¹⁰, R. Palma¹⁰, T. Stephan¹¹, M. E. Zolensky¹²



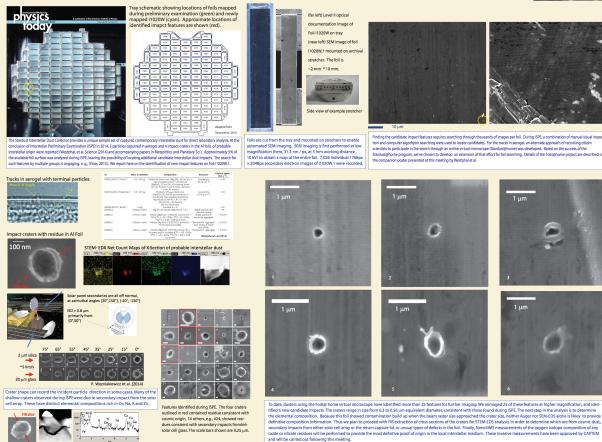
foils@home

crowd-sourced impact identification in Stardust Interstellar foil collectors

IDENTIFICATION OF CANDIDATE INTERSTELLAR DUST IMPACT FEATURES ON STARDUST FOIL 11020W.1

R. M. Stroud¹, B. T. De Gregorio¹, N. D. Bassim¹, A. J. Westphal², A. L. Butterworth², R. Lettieri², W. Marchant², D. Zevin², 90 stardust@home "dusters"³ ¹Naval Research Laboratory, Code 6366, 4555 Overlook Ave. SW, Washington, DC 20375, USA ²Space Sciences Laboratory, University of California at Berkeley, Berkeley, CA 94720, USA





tiphel et al (2014) Evidence for interstellar origin of seven dust particles collected by the Standust spacecraft, Science 348-786, 791, topical et al (2014) Final reports of the Standus threstellar Ptelminary Science 149-1720-1733. troud et al. (2014) Standust Interstellar Preliminary Examination XI: Identification and elemental analysis of impact craters on Al foils from the Standust Interstellar Dust Collector, teoritics & Pranetry Science 49-1720-183. trought et al. (2014) Micron-scale hypervelocity impact craters: Dependence of crater ellipticity and rim morphology on impact trajectory, projectile size, velocity, and shape, earlies of the Collection Science 49-1720-1917.

ss (2015) Identification of Impact Craters in Aluminum Foil from the Stardust Interstellar Dust Collector: An <u>Update, 46th LPSC,</u> Abstract #1005.







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CAPTEM Informatics Subcommittee

Current membership:

Andrew Westphal, Chair, Stardust Rep (Berkeley)
Tim McCoy (Natural History Museum)
Denton Ebel (American Museum of Natural History)
Conel Alexander (CIW), Meteorites rep
Dave Joswiak (UW), Hayabusa Rep
Larry Nittler (CIW), Cosmic Dust Rep
Jeff Taylor (Hawai'i), Lunar Rep
Dimitri Papanastassiou (Caltech), Genesis Rep

Recommendation for future of Informatics committee.

Charter:

The primary responsibilities of the Informatics Subcommittee of CAPTEM are:

- To develop a prioritized, long-term vision for capabilities of the external interface for JSC curation, in consultation with the PI community and JSC Curation.
- To support development of a strategic plan for Informatics, which may include different funding scenarios.
- To represent the PI community in the development of external requirements for the JSC databases and catalogs.
- To provide ongoing, periodic assessments of external aspects of JSC databases and catalogs.
- To provide findings to JSC Curation on the capability and sustainability of current informatics technology as applied to collections.

We propose to focus on the last three items on the charter in the next two years, in particular on Bullet 4. In this sense, the IC will play a role similar to the CAPTEM Facilities Committee.

Recommendation for future of Informatics committee.

Recruit one representative for each collection (Lunar, Meteorite, CD, Stardust, Genesis, Hayabusa, RSH) to the IC. This might be a past or current Committee member or Chair, or another experienced person from the community. Thus there will be 7 committee members (up from the current three).

For each collection, the responsible member will develop an assessment procedure for the online catalog, in collaboration with the Curator. An example of such a procedure might be:

- obtain a list of samples from the Curator in a spreadsheet
- randomly select a small number (<10) samples from the comprehensive list
- assess the catalog entries for the samples against a checklist of desired information and capability (e.g., discoverability, photodocumentation, allocation history, classification, basic mineralogy, etc.)

Because each collection has unique characteristics, each assessment procedure will be different, and will be compatible with community expectations of the catalog. The assessment procedures will be discussed, approved and documented by the committee, and presented to CAPTEM.

The IC members will carry out this assessment semi-annually, and will report the results at each CAPTEM meeting.

Catalog assessments

Complete document anticipated soon, draft available.

Concentrating on functionality and content, not yet on assessment of data quality and completeness.