Welcome & Report

SBAG 5, Pasadena CA
August 25-26, 2011

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Planetary Science Institute
Activities Since SBAG 4 (Jan 24-26, 2011, in DC)

- SBAG Roadmap Draft, Ongoing
- Target NEO Workshop, Feb 22
  (report posted at http://www.lpi.usra.edu/sbag/documents/)
- SBAG Response to Planetary Decadal Survey, April 21
  (posted at http://www.lpi.usra.edu/sbag/reports/sbagAssessmentDecadalSurvey.pdf)
- PSS Meeting focusing on Decadal Survey, April 18-19
- PSS Telecon June 22 (review PSD response to decadal; AG alignments)
- Revision of SBAG Terms of Reference, June 2011
- Lunar Forum – Panel to discuss synergies for human exploration among asteroids, the Moon, Mars – July 21
- International Primitive Bodies Exploration Working Group meeting – Aug 22-24
The Small Bodies Assessment Group (SBAG) is responsible for providing science input for planning and prioritizing human and robotic exploration activities for the small bodies of the Solar System. In this context, “small bodies” refer to Asteroids, Comets, Near-Earth Objects, Meteorites, Interplanetary Dust and Meteors, Trojans (of all the planets), Centaurs, Trans-Neptunian Objects (TNOs), Dwarf Planets, small planetary satellites (including Phobos, Deimos, and the irregular satellites of the Giant Planets), and samples from any of these objects. The SBAG serves as a community-based, interdisciplinary forum for analysis in support of small bodies exploration objectives. It provides findings of analyses to NASA through the NASA Advisory Council's (NAC) Exploration and Science Committees, and the SBAG Chair is a member of the Planetary Science Subcommittee (PSS) of the NAC Science Committee.
TERMS OF REFERENCE

To carry out its role, the SBAG will:

• Regularly evaluate solar system small bodies robotic and human exploration goals, objectives, investigations and required measurements on the basis of the widest possible community outreach. *(Roadmap)*

• Provide findings, analysis, and other information that can be used to inform decisions on the science, technology, commercial, and operational content and priorities of small bodies robotic and human missions. *(Roadmap)*

• Provide a regular forum for broad discussion of small bodies exploration science, technology, commerce, and operational issues, which will allow a conduit for community input into small bodies exploration activities and planning. *(Meetings, etc.)*

• Perform focused analyses in response to requests from the Exploration Systems Mission Directorate (ESMD), the Science Mission Directorate (SMD), the Space Operations Mission Directorate (SOMD), or the Committees of the NAC.
Roadmap for Small Bodies Exploration

• GOAL: To generate a primary source document for the future of small bodies robotic and human exploration in the context of NASA strategic goals and the questions needed to address those goals.

• A living document, updated with the availability of new studies, such as the decadal survey, and new discoveries.

• The generation and maintenance of the document is transparent and open to community participation.
Roadmap for Small Bodies Exploration

• Science Issues
• Population Identification and Characterization
• In-situ Study
• Sample Return
• Laboratory Studies
• Theoretical Studies
• Human Exploration
• Technology Capabilities and Needs
• Data Archiving and Access
Roadmap for Small Bodies Exploration
TODAY

• Reports on most sections
• Defining the path to maintenance mode
  ➢ A subcommittee (3) to create a uniform and coherent document
  ➢ Timescale – a few months
  ➢ Post for public comment
  ➢ Formal adoption before next SBAG meeting
Other Agenda Items for SBAG 5

- Report on IPEWG (Grogan)
- Proposal for a Small Bodies Colloquium Series (Castillo-Rogez)
- Target NEO Recommendation Discussion (Abell)
- Session on co-chartering of SBAG with HEOMD; expansion of NLSI to include small bodies; and synergies among SBAG, LEAG and MEPAG
Steering Committee – Rotating Membership

Mark Sykes (PSI), Chair (8/11-8/13)
Paul Abell (NASA JSC) (8/11-8/14)
Yan Fernandez (UCF) (8/11-8/14)
John Dankanich (NASA Glenn) (8/11-8/14)
Amy Mainzer (JPL) (8/11-8/13)
Nancy Chabot (JHU/APL) (8/11-8/13)
Hal Weaver (JHU/APL) (8/11-8/12)
Anita Cochran (UT Austin) (8/11-8/12)
Keith Noll (STScI) (8/11-8/12)

Maintain expertise across the various small body populations, missions and ground-based experience, and include a technologist/engineer.
Create an open process to nominate and bring people onto the Committee.