

November 21, 2014: Planetary Science Subcommittee Nancy Chabot, SBAG Chair

### **Future SBAG Meetings:**

- January 6 7, 2015: 12<sup>th</sup> SBAG Meeting, Phoenix, AZ
  - January 8-10, 2015: **AstroRecon** (Conference on Spacecraft Reconnaissance of Asteroid and Comet Interiors), Phoenix, AZ
- June 29 July 1, 2015: 13<sup>th</sup> SBAG Meeting, Washington, DC



Meeting logistics, draft agenda at: http://www.lpi.usra.edu/sbag/

#### SBAG 12 MEETING – Day 1: Tuesday, January 6, 2015

8:30 am: Welcome & Logistics - Nancy Chabot 8:40 am: Review and discussion of SBAG 11 findings -Lindley Johnson 9:10 am: Planetary Science Division Update – Jim Gree

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<u>10:15 am: Mission Briefs – Updates and Recent Highlights</u>

New Horizons– Alan Stern

Dawn – Carol Raymond

11:00 am: Research and Analysis Program: – Jonathan Rall

11:45 am: Cartography Research & Analysis Group –

Samuel Lawrence

12:10 pm: LUNCH

<u>1:30 pm: Mission Briefs – Updates and Recent Highlights</u>

NEOWISE – James Bauer

OSIRIS-REx – Dante Lauretta

2:15 pm: NEO Program - Lindley Johnson

3:15 pm: BREAK

3:25 pm: Mission Briefs – Updates and Recent Highlights

Rosetta – Mike A'Hearn

Hayabusa 2 – Paul Abell

4:10 pm: Xtronaut – Dante Lauretta

4:30 pm: Discussion of SBAG documents

5:00 pm: Discussion of possible findings – Nancy Chabot



### <u>12<sup>th</sup> SBAG Meeting:</u> January 6 – 7, 2015, Phoenix, AZ

Meeting logistics, draft agenda at: http://www.lpi.usra.edu/sbag/

#### SBAG 12 MEETING – Day 2: Wed., January 7, 2015

8:30 am: Asteroid Redirect Mission Activities - Michele Gates 9:30 am: Candidate ARM Targets – Paul Chodas 10:15 am: BREAK 10:30 am: Accessible NEOs – Brent Barbee 11:00 am: Strategic Knowledge Gaps and Other SBAG Contributions to Exploration Goals – TBD (NASA Exploration Scientist?) 11:30 am: Continued discussion of SBAG documents 12.00 I UNCH 1:30 pm: SBAG Technology Activities – John Dankanich 2:15 pm: Planetary Balloon Missions **BOPPS** – Andy Cheng **OPIS** – Terry Hurford Future Program Plans – Lindley Johnson 3:05 pm: BREAK 3:15 pm: Status Updates NEA Scout – Julie Castillo-Rogez AIDA – Andy Cheng Cartographic Software for Small Bodies – Tim Titus NIAC Study for Planetary Defense – Bong Wie Mars Comet Siding Spring Encounter – Casey Lisse 5:00 pm: Discussion of possible findings – Nancy Chabot

6:00 pm: Meeting of the SBAG Steering Committee

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# **ROSES 2014:**

#### **Guest Investigator and Participating Scientist Opportunities**

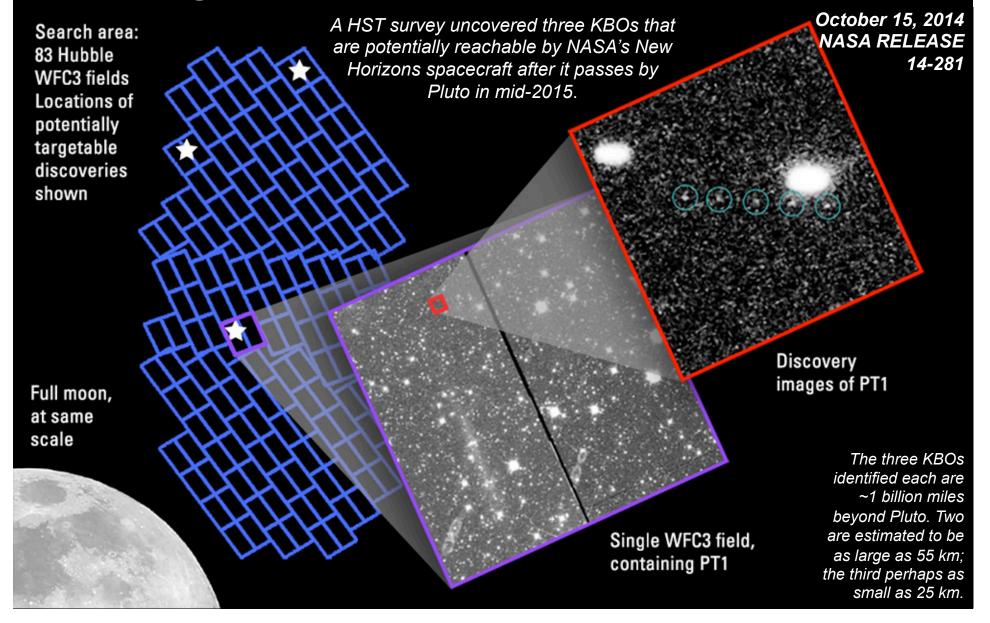
The SBAG community would appreciate specific updates on:

BODIES ASSESSMENT

1) <u>Dawn at Ceres Guest Investigator Program</u> – This program will contribute to maximizing the science at Ceres, but there is not a lot of time to get those selected in place prior to the start of the Ceres encounter. A status update on this and a timeline would be valuable for the community to hear.

2) <u>Hayabusa 2 Participating Scientist Program</u> - This has been listed as being in the ROSES 2014 call and the NSPIRES website says it will be out in December 2014. Having an update about when the community might expect this opportunity to be posted would be worthwhile.

## NASA's Hubble Telescope Finds Potential Kuiper Belt Targets for New Horizons Pluto Mission





# Dawn at Ceres



- The ice-rich dwarf planet is:
  - Twice the size of Enceladus
- Warm (surface temperature > 200K)
- Hydrostatic in shape
- Low Density: 2088 kg/m<sup>3</sup> (70% rock, 30% ice)
- Covered with altered minerals: Brucite [Mg(OH)<sub>2</sub>] and carbonates detected on surface (Milliken and Rivkin 2009)
- Dawn will orbit and comprehensively map the dwarf planet Ceres from March 2015 until mid-2016
- Its payload is well suited to searching for evidence of activity on Ceres' surface
  - Look for recent and past deposits of outgassed material (and ice)
  - Constrain the thermophysical properties
  - Link surface composition to geologic processes