

Log In



My Schedule




My Favorites





My Contacts


NAVIGATION

[Home](#)[Section/Focus Group](#)[Events](#)[Co-Sponsored](#)[Cross-Listed](#)[SWIRL Themes](#)[AGU On-Demand](#)[EPoster](#)[Index Terms](#)[Meeting Resources](#)[Meeting Website !\[\]\(5a351309c3b87e4420622c1f0e57efc0_img.jpg\)](#)[Technical Support](#)

Click  to add an item to 'My Schedule'.

Click  to add/remove an item to 'My Favorites'.

Click  to add/remove a person to 'My Contacts'.

Click  to access your Schedule

Due to a known issue with Firefox, it is recommended that any printing be done in an alternate browser.

 **AGU FALL MEETING** 

San Francisco | 14 - 18 December 2015

P53E-2180: Preliminary Geological Map of the Ac-H-13 Urvara Quadrangle of Ceres: An Integrated Mapping Study Using *Dawn* Spacecraft Data

ABSTRACT

**Friday, 18 December 2015****13:40 - 18:00***Moscone South - Poster Hall*

Log In



My Schedule



My Favorites



My Contacts

NAVIGATION[Home](#)[Section/Focus Group](#)[Events](#)[Co-Sponsored](#)[Cross-Listed](#)[SWIRL Themes](#)[AGU On-Demand](#)[EPoster](#)[Index Terms](#)[Meeting Resources](#)[Meeting Website](#) [Technical Support](#)

Click to add an item to 'My Schedule'.

Click to add/remove an item to 'My Favorites'.

Click to add/remove a person to 'My Contacts'.

Click to access your Schedule

Due to a known issue with Firefox, it is recommended that any printing be done in an alternate browser.

Quadrangle of dwarf planet Ceres. This region, located between 21°S-66°S and 180-270°E, is dominated by the Urvara basin in the east and cratered plains in the west. The elevation of the cratered plains is intermediate between the identified "highland" and "lowland" units of Ceres. Plains in the SW corner of the quadrangle are hummocky and heavily cratered, while the NW corner is smoother and less densely cratered. Features of note include 1) the 200 km diameter Urvara basin, which includes a degraded northern rim and smooth interior and exterior material that hosts a significantly lower impact crater density than most of the rest of Ceres' surface; 2) semi-radial curvilinear structures extending to the east and west of Urvara; 3) two large-scale dome structures 10s of km in diameter exterior to Urvara; and 4) numerous small-scale domical structures (<12 km diameter) associated with the smooth material interior to the basin. Key goals of the ongoing mapping are to assess the types of resurfacing processes that might be responsible for producing the smooth units, and to assess the processes responsible for the development of large and small dome structures.

At the time of this writing geologic mapping was performed on Framing Camera (FC) mosaics from the Approach (1.3 km/px) and Survey (415 m/px) orbits, including clear filter and color images and digital terrain models derived from stereo images. In Fall 2015 images from the High Altitude Mapping Orbit (140 m/px) will be used to refine the mapping, followed by Low Altitude Mapping Orbit (35 m/px) images starting in December 2015.

Support of the Dawn Instrument, Operations, and Science Teams is acknowledged. This work is supported by grants from NASA, the Max Planck Society and from the German and Italian Space Agencies.



Log In



My Schedule





My Favorites





My Contacts

NAVIGATION[Home](#)[Section/Focus Group](#)[Events](#)[Co-Sponsored](#)[Cross-Listed](#)[SWIRL Themes](#)[AGU On-Demand](#)[EPoster](#)[Index Terms](#)[Meeting Resources](#)[Meeting Website !\[\]\(aff7c69c44a5e015f18c35867ef3f5c3_img.jpg\)](#)[Technical Support](#)

Click  to add an item to 'My Schedule'.

Click  to add/remove an item to 'My Favorites'.


Click  to add/remove a person to 'My Contacts'.


Click  to access your Schedule


Due to a known issue with Firefox, it is recommended that any printing be done in an alternate browser.


[Maria Sizemore](#)*Planetary Science
Institute Tucson*[David Williams](#)*Arizona State
University*[Thomas Platz](#)*Max Planck Institute for
Solar System Research*[David O'Brien](#)*Planetary Science
Institute Tucson*[Scott Mest](#)*Planetary Science
Institute Tucson*[R Aileen Yingst](#)*Planetary Science
Institute Tucson*[David Crown](#)*Planetary Science
Institute Tucson*[Debra Buczkowski](#)*JHU Applied Physics
Laboratory*[Paul Schenk](#)*Lunar and Planetary
Institute*[Jennifer Scully](#)*NASA Jet Propulsion
Laboratory*[Ralf Jaumann](#)*German Aerospace
Center DLR Berlin*[Thomas Roatsch](#)*German Aerospace
Center DLR Berlin*[Frank Preusker](#)*German Aerospace
Center DLR Berlin*[Andreas Nathues](#)*Max Planck Institute for
Solar System Research*[Maria Cristina De](#)

[Log In](#)[My Schedule](#)[My Favorites](#)[My Contacts](#)**NAVIGATION**[Home](#)[Section/Focus Group](#)[Events](#)[Co-Sponsored](#)[Cross-Listed](#)[SWIRL Themes](#)[AGU On-Demand](#)[EPoster](#)[Index Terms](#)[Meeting Resources](#)[Meeting Website !\[\]\(40770d9ed6ed4f1222ebf89a1396e8b2_img.jpg\)](#)[Technical Support](#)

Click  to add an item to 'My Schedule'.

Click  to add/remove an item to 'My Favorites'.

Click  to add/remove a person to 'My Contacts'.

Click  to access your Schedule

Due to a known issue with Firefox, it is recommended that any printing be done in an alternate browser.

Session: [Vesta and Ceres as Seen by Dawn and Earth-Based Instruments II Posters](#)

Section/Focus Group: [Planetary Sciences](#)

Day: [Friday, 18 December 2015](#)

