



SCIENCE

# Outer Planets Program Status

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OPAG Meeting

July 23, 2014



# The Big Picture: What's happened since January



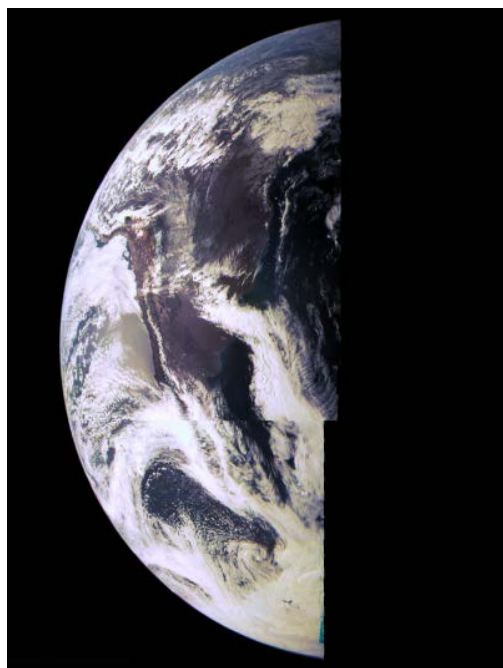
- President's FY15 budget released
  - Cassini funding restored (pending Senior Review results)
  - Europa mission included in President's budget *for the first time*
  - House and Senate FY15 budget bills continue trend of very strong Congressional support for Planetary Science, but the details need to be resolved by Congress as a whole
- Senior Review complete (see Bill Knopf's presentation)
- R&A
  - CDAPS Step-1 proposals are due July 28!
  - Solar System Workings Step-2 proposals are due July 25!
- Staffing changes
  - Kristen Erickson, PSD Strategic Communications, is moving to the SMD front office to oversee all SMD E/PO and Communications



# Mission Status – Juno and New Horizons



- Juno is healthy and operating nominally
  - Currently dealing with a side swap issue
- Spacecraft has covered ~78% of the 19-AU-long trajectory (12% further since last OPAG meeting)
- JOI in 2 years!



- New Horizons is in excellent health and operating nominally
- Spacecraft is 29.8 AU from the sun and 3.0 AU from Pluto system (1.4 AU closer than last OPAG meeting)
- HST search for KBO candidates selected and ongoing
- Flyby occurs in one year; encounter begins in 6 months

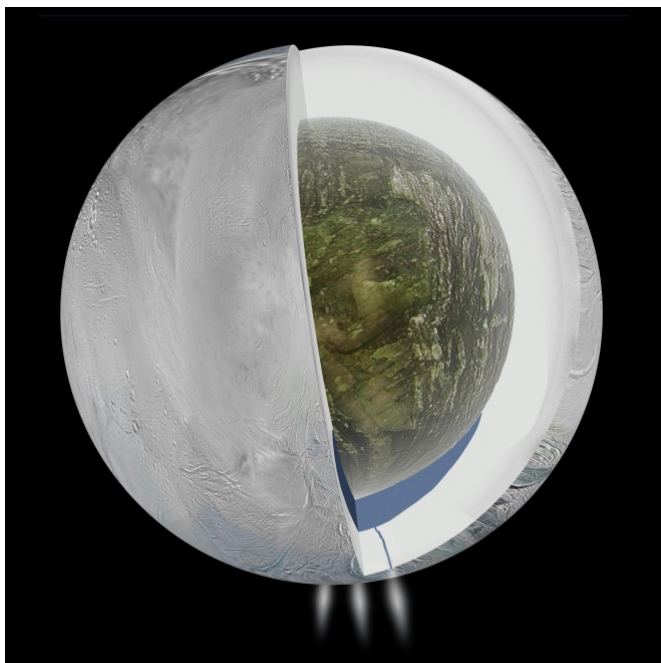




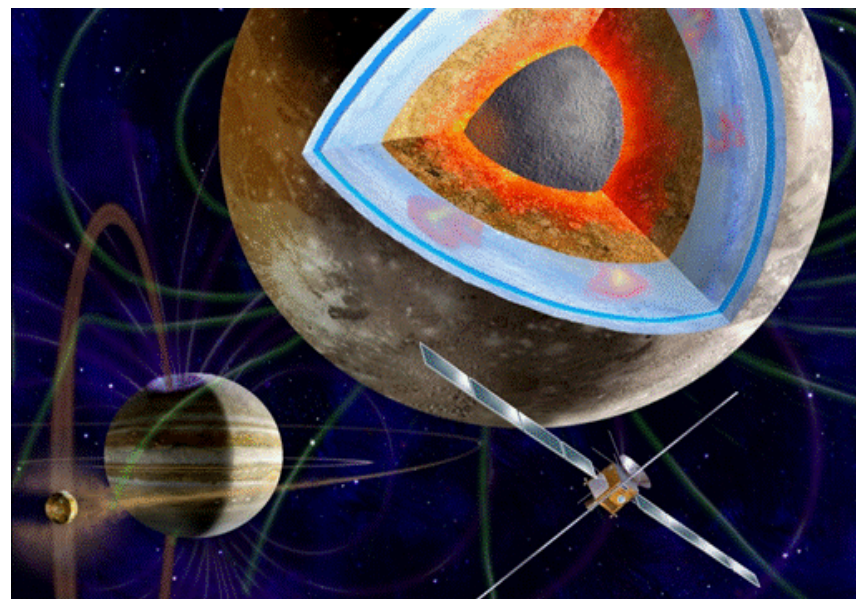
# Mission Status – Cassini and JUICE



- Cassini is in excellent health and operating nominally
  - Lowering inclination to enable more icy moon flybys
- Intensive planning for Proximal Orbit mission has begun
- Final Participating Scientist solicitation in ROSES 2015



- JUICE: no change. NASA contributions of UVS, portions of PEP and RIME
- Development is proceeding, the next major milestones are:
  - System Requirements Review (Fall 2014)
  - Formal Mission Adoption (Nov. 2014)



# Cassini Mission Overview

Four-Year Prime Tour, Equinox Mission, and Solstice Mission (Proposed), July 2004 - July 2017





# Recent and Ongoing Europa Activities



- Continue Europa Clipper mission pre-formulation and technology development work leading to MCR in September
- Released RFI to collect ideas on a <\$1B Europa mission
  - Potential to collect intriguing RFI responses meriting further study; all six responses are currently undergoing technical evaluation by Aerospace Corp.
- Continue to study various launch vehicle options including SLS
- Europa Plume HST campaign selected
- Europa in the news!
  - National Geographic cover
  - Planetary Society sponsored “Lure of Europa” event on the Hill; incredibly well attended





# AO for Europa Instrument Investigations



- On July 15 NASA released a PEA to solicit instrument investigations for a mission to Europa
- Proposed investigations will be evaluated and selected through a two-step competitive process
  - At any time, NASA may condense the evaluation and selection process to a single step competitive process
- Schedule
  - Pre-Proposal Conference: Late July 2014 via webex
  - Voluntary NOIs due: August 15, 2014
  - Proposals due: October 17, 2014
  - Step-1 selections announced: April 2015
  - Step-2 selections announced: April 2016
- Questions should be addressed to [curt.niebur@nasa.gov](mailto:curt.niebur@nasa.gov) with the subject line “Europa PEA”. Answers will be posted at the acquisition website (<http://soma.larc.nasa.gov/europa/>)



# Questions?

