



Cartography and Imaging  
Sciences Node

Jet Propulsion Laboratory

U.S. Geological Survey

# Europa Clipper Mission: Status of Mission Interface

**Lisa Gaddis**

**PDS IMG: USGS, Astrogeology**

*PDSMC F2F, April 20, 2017*

# Europa Clipper Mission MI

- Haje Korth ([Haje.Korth@jhuapl.edu](mailto:Haje.Korth@jhuapl.edu)) replaces Louise Prockter as Deputy PI and leadership POC for data archiving
- Elmain Martinez is Archive Lead at JPL
  - [Elmain.Martinez@jpl.nasa.gov](mailto:Elmain.Martinez@jpl.nasa.gov)
  - Manages DAWG, collaboration Web site
- **Delivered PDS information in April, 2016**
  - PDS and PDS4 information and contacts, sample docs
  - Proposed schedule
  - PDS Instrument Leads (POCs)
- **ECM identified instrument POCs in July 2016**
- **MOU signed by IMG and ECM representatives in early April 2017**

# Europa Clipper Mission MI

- ◎ **Updated archiving schedule available**
  - Delayed because of budget reductions
  - IMG continues informal monthly telecons with Elmain
  - Pre-PSG DAWG meeting TBD (**soon?**)
    - ECM and PDS Instrument POCs, if possible
  - ECM PSG meeting in May 17-19 in Columbia, MD
    - I will attend for PDS
  - First formal DAWG scheduled for ~**Sept 2017**
- ◎ **Elmain now working on:**
  - Updates to Europa Clipper Science Data Sharing, Management, and Archive Plan (DSMAP)
  - Setting up collaboration Web site
  - Will attend PDS4 training at 3<sup>rd</sup> Planetary Data Workshop on June 14, 2017

# Current Archiving Schedule



Europa Mission: Planned Archiving Schedule	
May 2016 - Phase A	Identify archiving POC, Inst & PDS POCs
March 2017 - Phase B	Start draft of Data Sharing, Management & Archive Plan (DSMAP)
May 2017 - Phase B	Start DAWG meetings (bimonthly in Phase B)
	Start drafts of ICDs
Instrument PDRs (Sep 2017 - May 2018)	High-level Instrument/PDS interface overview (for early instrument PDRs)
Mission Systems PDR (18 May 2018) - Phase B	Preliminary DSMAP ready
	Draft ICD for each team ready
Mission Systems CDR (19 Jun 2019) - Phase C	Final DSMAP ready
	Final ICDs ready
	Draft SIS documents ready
	Start peer reviews
Launch minus 6 mo (22 Dec 2021)	Final SIS documents ready
	Peer reviews complete
Launch (22 Jun 2022) - Phase D	
TBD	First data acquisition period (# days/months)
	Number of days, months
TBD	First data release
	End of data acquisition + 3 months?
TBD	Subsequent releases
	Every 3 months?
As of 4.04.17	

# ECM: Instrument Team POC Assignments



Instrument Team	Instrument Archiving Lead	PDS Node	Primary Node POC	Secondary Node POC (if any)
Plasma Instrument for Magnetic Sounding (PIMS)	Joe Westlake (sjoy@igpp.ucla.edu)	PPI	Joe Mafi (jmafi@igpp.ucla.edu )	
Interior Characterization of Europa using Magnetometry (ICEMAG)	Steve Joy (BTrantham@swri.edu)	PPI	Joe Mafi (jmafi@igpp.ucla.edu )	
Mapping Imaging Spectrometer for Europa (MISE)	Sarah Lundeen (sarah.r.lundeen@jpl.nasa.gov)	GEO	Ed Guinness (guinness@wunder.wustl.edu)	Matt Tiscareno (matt@seti.org)
Europa Imaging System (EIS)	Wes Patterson (Gerald.Patterson@jhuapl.edu)	IMG	Moses Milazzo (moses@usgs.gov)	Matt Tiscareno (matt@seti.org)
Radar for Europa Assessment and Sounding: Ocean to Near-Surface (REASON)	Duncan Young (duncan@ig.utexas.edu)	GEO	Ed Guinness (guinness@wunder.wustl.edu)	
Europa Thermal Emission Imaging System (E-THEMIS)	Kim Murray (kim.murray@asu.edu)	IMG	Jordam Padams (Jordan.H.Padams@jpl.nasa.gov)	Matt Tiscareno (matt@seti.org)
Mass Spectrometer for Planetary Exploration/Europa (MASPEX)	Rebecca Perryman (rperryman@swri.edu)	ATM	Lyle Huber (lhuber@nmsu.edu)	
Ultraviolet Spectrograph/Europa (UVS)	Brad Trantham (BTrantham@swri.edu)	ATM	Lyle Huber (lhuber@nmsu.edu)	
Surface Dust Mass Analyzer (SUDA)	David James (David.James@lasp.colorado.edu)	SBN	Carol Neese (neese@psi.edu)	
TECH DEVELOPMENT: Space Environmental and Composition Investigation near the European Surface (SPECIES)	None	(ATM)	Lyle Huber (lhuber@nmsu.edu) Richard Simpson	
Gravity Science	TBD	RS	(radiosci@att.net)	

# Europa Mission: PDS TBD

- PDS POCs to contact Instrument POCs
  - Additional examples of docs (ICDs, etc.)
  - Assistance with reviewing
  - Any sample labels, PDS4 guidance, tools
- Stay tuned for information on
  - Introductory DAWG in **April/May 2017 (?)**
  - Collaboration Web site or Wiki