



HyspIRI Science Workshop

Objectives and Approach

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Workshop Objectives



- Review and validation of HypsIRI science questions
- Review and validation of HypsIRI Level 1 requirements
- List of Level 2 HypsIRI Mission data products
- List of potential Level 3 HypsIRI User data products (with on-line tools)
- Address and consider options for resolving key issues affecting HypsIRI science, including:
 - Sun glint
 - Spatial resolution in the coastal zone
 - Data processing (on board and ground)
 - Partnership opportunities
- Identification of key pre-launch science activities
- Plans to collate the findings/discussions from the 2nd HypsIRI Science Workshop and for next Workshop Report



Workshop Approach – Day 1



Tuesday, August 11 AM

- Overview of Decadal Survey Missions and Context for HypsIRI - LaBrecque
- Review of Current Baseline HypsIRI Science Measurements Characteristics
 - VSWIR Current Science Measurement Baseline - Green
 - TIR Current Science Measurement Baseline - Hook
- Review of HypsIRI Mission Characteristics - Bruce, Foote, Oaida, Mandl (with HypsIRI Mission Current Science Measurement Acquisition Baseline - VSWIR, TIR)
- Low latency Data Capture and Downlink - Mandl, Chien
- ***Draft Preliminary HypsIRI Mission Level 1 Requirements*** – Green, Hook

Tuesday, August 11 PM

- Parallel Reviews of VSWIR and TIR Questions – Questions Leads and Others
 - Review questions, sub-questions, and associated science—noting DS alignment
 - Review Science Traceability Matrices
 - Identify any higher-level (Level 3) associated products and validation approaches
 - Necessary precursor science
- Gathering



Workshop Approach – Day 2



Wednesday, August 12 AM

- HypsIRI Preparatory Activities: ROSES and Airborne Activities – Turner
- Science Prototype Activities with Hyperion/other data – Middleton
- 1st Round of Talks on Specific Scientific and Technical Challenges

- Space Grant Student Presentation during Lunch

Wednesday, August 12 PM

- Reviews of Combined Questions (both VSWIR and TIR)
 - Review questions, sub-questions, and associated science—noting DS alignment
 - Review Science Traceability Matrices
 - Identify any higher-level (Level 3) associated products and validation approaches
 - Necessary precursor science
- 2nd Round of Talks on Specific Scientific and Technical Challenges

- Gathering



Workshop Approach – Day 3



Thursday, August 13 AM

- Potential Partnerships and Related International Missions
- HypsIRI Ground Data Processing Baseline and Options – Bogdan Oaida
- Level 1 Validation of On-orbit Radiance Calibration - Bruegge, Geier, Green, Hook, Ungar
 - VSWIR, TIR, and Hyperion Lessons Learned
- Level 2 Product Validation – Green, Turpie, Hook
 - VSWIR and TIR

Thursday, August 13 PM

- 3rd Round of Talks on Specific Scientific and Technical Challenges
- Key Results and Discussion of VSWIR, TIR, and Combined Science Questions – Green, Hook, Muller-Karger, WGs
- Review and Discussion of Draft Preliminary HypsIRI Mission Level 1 Requirements – Green, Hook
- Review of Workshop and Next Steps – LaBrecque, Turner, Green, Hook