JACIE 2026 Workshop Agenda

Monday Morning

All times are in Eastern US Time Zone

Required	8:30 - 12:00	**Attendee Registration at Entrance**
Optional	8:30 - 11:30	**Uncertainty Workshop (USGS Dallas Peck Auditorium)** **Registration Required**
Optional	9:00 - 12:00	**Exhibit/Poster Setup in Art Hallway** **** Exhibitors can store items in Room 1B215 in the evening****

Monday Afternoon

All sessions will be held in the USGS Dallas Peck Auditorium & all times are in Eastern US Time Zone

Welcome Address	12:00 - 12:15	**JACIE 2026 Welcome Address:** Cody Anderson, USGS
Agency 1 Session **Chairs:** **Cody Anderson, USGS** **Dan Opstal, USGS**	12:15 - 12:30	USGS Overview / Agency Update: Mike Tischler, USGS
	12:30 - 12:50	NASA Overview / Agency Update: Melissa Martin, NASA
	12:50 - 1:10	USDA Overview / Agency Update: Michael Cosh, USDA
	1:10 - 1:30	NOAA Overview / Agency Update: Natalie Laudier & Gerry Peltzer, NOAA
	1:30 - 1:50	NRO CSPO Update: Justin Langlois, NRO/CSPO
	1:50 - 2:10	ESA Update: Valentina Boccia, ESA
Group Picture	**2:10 - 2:45**	**Group Picture (Dallas Peck Auditorium)**
Break	**2:45 - 3:00**	**Break**
Agency 2 Session **Chairs:** **Jeff Clauson, USGS** **Sarah Brothers, NOAA**	3:00 - 3:15	VH-RODA Summary ESA: Leo De Laurentiis, ESA
	3:15 - 3:30	VH-RODA /JACIE Joint Update: Valentina Boccia, ESA & Jim Vrabel, ITC-USGS
	3:30 - 3:45	GA Update: Matthew Adams, Geoscience Australia
	3:45 - 4:00	CIDR: Ryan Longhenry, USGS
	4:00 - 4:15	EROS and NCAC Imagery Collection Support - 2025 Progress Report: Ross Rogers, USGS
	4:15 - 4:45	National Land Imaging and Landsat Update: Tim Newman, USGS & Dan Opstal, USGS
	4:45 - 4:50	Thank You: Ned Mamula, USGS Director
Panel	**4:50 - 5:30**	**Agency 1 & 2 Panel**

Networking Event at USGS Reston (Art Hallway)

Tuesday Morning

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Optional	**7:30 - 8:30**	**Exhibit/Poster Setup in Art Hallway** **** Exhibitors can store items in Room IC113 in the evening****
ARD & Interoperability **Chairs:** **Cody Anderson, USGS** **Matthew Adams, GA**	8:30 - 8:45	SWIRSAT: A New Era of High-Resolution Spaceborne SWIR for GHG Intelligence: Wolfgang Lueck, EOIntelligence
	8:45 - 9:00	Multi-Modal Mapping Synergies: Integrating Satellite-Derived Bathymetry with Airborne Lidar for Enhanced Data Acquisition in Civilian and Military Maritime Applications: Michael Wernau, EOMAP
	9:00 - 9:15	Enabling Timely Water-Quality Monitoring Using High-Resolution Commercial Satellite Observations: Akash Ashapure, NASA GSFC / SSAI
	9:15 - 9:30	From MODIS to VIIRS: Maintaining Continuity for Planet's Surface Reflectance Products: Alan Collison, Planet Labs PBC
	9:30 - 9:45	World Average Intercomparison Method: An approach to compare Landsat 8 OLI to Landsat 9 OLI: Mehran Yarahmadi, SSAI
Break	**9:45 - 10:00**	**Break**
Resources for Data Quality & Calibration **Chairs:** **Esad Micijevic, USGS** **Valentina Boccia, ESA**	10:00 - 10:15	Dense Time Series for Assessment of Photosynthetic Function and Productivity - Cal/Val and Algorithms for New Satellite Products: Petya Campbell, GSTAR II UMBC and NASA GSFC
	10:15 - 10:30	Development of a unified framework for quality control of imagery produced by a >20 satellite constellation: Emidio Bueno, Satellogic
	10:30 - 10:45	Streamlined Calibration for Small Satellite Optical Payloads: Deron Scott, Space Dynamics Laboratory
	10:45 - 11:00	Synthesizing Long-Range Sensor Models for 3-D Exploitation of Non-Earth Imagery: Brian J. Roberts, BAE Systems
	11:00 - 11:15	Spectroradiometric Evaluations of Commercial Data for NASA CSDA: Mohammad Tahersima, George Washington University
	11:15 - 11:30	Radiometric Calibration Round Robin for Earth's Reflective Spectral Range: Boryana Efremova, GeoThinkTankLLC
	11:30 - 11:45	A DIRSIG-based CONUS model to support LandIS sensor trade-studies: Aaron Gerace, Rochester Institute of Technology
	11:45 - 12:00	Products and Services Beyond RadCalNet: Custom RadCaTS Results and Emerging Upgrades: Jeff Czapla-Myers, University of Arizona

Tuesday Lunch

Lunch & Exhibits	**12:00 - 1:00**	**Lunch & Poster/Vendor Viewing**
Optional	**12:30 - 1:30**	**RADCALNET SIDE MEETING** **Room 1C400 (Right outside auditorium doors near podium)**

Tuesday Afternoon

Afternoon Sessions Begin at 1:30 pm following lunch

Hyperspectral **Chairs:** **Jeff Clauson, USGS** **Mark Bowman, NRO-CSPO**	1:30 -1:45	Pixxel's Image Calibration Odyssey: From Raw Data to Decision-Ready Intelligence: Spencer Wahrman, Pixxel
	1:45 - 2:00	The Application of Precisely Calibrated Hyperspectral Imagery to Real-World Problems: Josh Magarick, Orbital Sidekick, Inc.
	2:00 - 2:15	Wyvern HSI Surface Reflectance Across the Dragonette Constellation: Anudeep Bildfell, Wyvern Inc.
	2:15 - 2:30	Performance Assessment of Wyvern Dragonette Hyperspectral Constellation: Chad Bryant, Wyvern Inc.
	2:30 - 2:45	Tanager-1 Surface Reflectance Validation: Dominic LeDuc, Planet Labs
	2:45 - 3:00	Impact of spectral and spatial uniformity on subpixel target detection performance when using imaging spectrometers that have spectral/spatial non-uniformities: Tom Chrien, Matter Intelligence, Inc.
	3:00 - 3:15	Tanager-1: Calibration Improvements and On-Orbit Performance Monitoring: Norberto Hernandez, Planet Labs
Break	**3:15 - 3:30**	**Break**
AI & Automation **Chairs:** **Mike Choate, USGS** **Gerry Peltzer, NOAA**	3:30 - 3:45	CATALYST's Edge processing solution for band-aligned, geometrically calibrated, and Orthorectified, AI-ready images in near-real-time.: Joe Lovick, CATALYST (PCI Geomatics Inc)
	3:45 - 4:00	BRDF: A Nuisance or an Additional Information Source for Quantitative Optical Image Analysis?: Wolfgang Lueck, EOIntelligence
	4:00 - 4:15	GAIA: A Cloud-Hosted Annotation System for Evaluating Commercial Satellite Imagery for Whale Detection: Lauren Connor, NOAA Northeast fisheries science center
	4:15 - 4:30	Scaling Expert Intuition: Automating Imagery Quality Control with Multimodal Large Language Models: Lucas Antonel, Satellogic
	4:30 -4:45	A Game-Theoretic and Model Predictive Control Framework for Fallback Autonomy in Satellite Mega-Constellations: Daniel Reynolds, United States Space Force
Panel	**4:45 - 5:30**	**AI & Interoperability Panel**
No-Host Dinner at Sully's Pour House		
Wednesday Morning		
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Calibration Validation **Chairs:** **Leonardo De Laurentiis, ESA** **Cody Anderson, USGS**	8:30 - 8:45	The Muon Space GNSS-Reflectometry Constellation: Clara Chew, Muon Space
	8:45 - 9:00	Calibration and validation of SpaceEye-T1: Moongyu Kim, SI Imaging Services
	9:00 - 9:15	EarthDaily Mission and Post-Launch Cal/Val Progress: Fraser Parlane, EarthDaily Analytics
	9:15 - 9:30	Absolute Radiometric Calibration Sensitivity analysis of Vantor's surface reflectance product: Tina Ochoa, Vantor
	9:30 - 9:45	MTF tests for optical sensors before launch: Guoqing (Gary) Lin, NASA Goddard Space Flight Center
Retirement Farewell	**9:45 - 10:00**	**Retiring Long-time JACIE Planning Team Member and Lead: Jon Christopherson** **Free Agent as of April 1, 2026**
Break	**10:00 - 10:15**	**Break**

Techniques & Tools **Chairs:** **Brian Feathers, NGA** **Melissa Martin, NASA**	10:15 - 10:30	Angstrom: An Imaging Star Photometer Camera Update: Calibration Processes and Applications: Robert Ryan, Innovative Imaging & Research
	10:30 - 10:45	Effective spatial resolution of a satellite image with a few to tens of meter GSD using causeways: Minsu Kim, KBR
	10:45 - 11:00	NASA's CSDA Evaluations of True Spatial Resolution: Alana Semple, SSAI/NASA
	11:00 - 11:15	A laboratory-based spectrometer intercomparison for the measurement of snow spectra: Christopher Crawford, U.S. Geological Survey Earth Resources Observation and Science Center
	11:15 - 11:30	JACIE Data Quality Assessment Interoperability with EDAP+ and Progress Toward a Landsat EDAP+ Evaluation: Jeffrey Clauson, U.S. Geological Survey (USGS)
	11:30 - 11:45	Expanding the SPARC/FLARE Methodology: Toward a Unified Point Source Irradiance-Based Calibration Metric for Earth Remote Sensing Systems: Stephen Schiller, Cal/Val Research
	11:45 - 12:00	An Overview of the RIT Open Community eXperiment (ROCX 2025): Nina Raqueno, RIT
Wednesday Lunch		
Lunch & Exhibits	**12:00 - 1:00**	**Lunch & Poster/Vendor Viewing**
Optional	**12:30 - 1:30**	**ROCX SIDE MEETING** **Room 1C400 (Right outside auditorium doors near podium)**
Wednesday Afternoon		
Afternoon Sessions Begin at 1:30 pm following lunch		
Lightning Talk Session **Chairs:** **Cody Anderson, USGS** **Jeff Clauson, USGS**	1:30 - 1:35	Crop Water Productivity (crop per drop) and Crop Water Savings of Cotton Crop in California's Central Valley using 3-30 m Remote Sensing Data: Daniel Foley, USGS
	1:35 - 1:40	Dark Ship Identification with the Wyvern Dragonette Hyperspectral Constellation: Ellie Jones, Wyvern
	1:40 - 1:45	Microsoft's Planetary Computer: Building a Planetary-Scale Data Platform: Taylor Corbett, Microsoft
	1:45 - 1:50	Multi-Domain Geospatial Fusion: Integrating LiDAR, 3D Analytics, and AI from Terrain to Orbit: Shawana Johnson, Global Marketing Insights, Inc. & Mark Schubert, Aerial Surveys
	1:50 - 1:55	Assessment of Photosynthetic Function with ESA's FLEX and CHIME, and NASA's SBG and PACE products: Petya Campbell, NASA/GSFC and UMBC/GESTARII
	1:55 - 2:00	Anchoring Reality: Strengthening Modern Remote Sensing Through Real-World GCPs and Geodetic Rigor: Philipp Hummel, CompassData
	2:00 - 2:05	US Space Force Commercial Remote Sensing: Merrick Garb, USSF
Break	**2:05 - 2:15**	**Break & 1-on-1 Lightning Talk Q&A (in auditorium or hallway)**
	2:15 - 2:30	Geometric Calibration of Hydrosat Data Products: Ian McGreer, Hydrosat
	2:30 - 2:45	HotSat imagery and calval activities - ensuring product quality at SatVu: Joshua Chadney, SatVu

Thermal **Chairs:** **Esad Micijevic, USGS** **Valentina Boccia, ESA**	2:45 - 3:00	Radiometric Calibration and Validation of Hydrosat's Dual-Payload Thermal Missions for High-Resolution Land Surface Temperature Retrieval: Tania Kleynhans, Hydrosat
	3:00 - 3:15	FireSat: From Orbit to Action: Michael Falkowski, Earth Fire Alliance
	3:15 - 3:30	Calibration and Performance of OroraTech's Level-1 Thermal Data Products: Andrea Spichtinger, OroraTech
	3:30 - 3:45	On-Orbit Radiometric Calibration and Validation of the FireSat0 Instrument: Stephen Maxwell, Muon Space
	3:45 - 4:00	Status and Progress in the Cal/Val activities and Data Quality of the thermal and VNIR Constellation HiVE: Andreas Brunn, constellr GmbH
	4:00 -4:15	Landsat TIRS L1T Product Radiometric Pixel Uncertainty Update: Robert Ryan, Innovative Imaging & Research
	4:15 - 4:30	Calibrating and Validating Satellite Datasets using the JPL Mid and Thermal Automated Radiometer Network aka Hooknet: Simon Hook, NASA/JPL
Panel	**4:30 - 5:30**	**Cal/Val Panel**
Happy Hour at Jackson's Mighty Fine Food and Lucky Lounge		
Thursday Morning		
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Characterization Results **Chairs:** **Dave Case, USGS** **Mark Bowman, NRO-CSPO**	8:30 - 8:45	Cross-Calibration Challenges and Strategies for Multi-Spectral Constellations with 20+ Spectral Bands: Keith Beckett, EarthDaily Analytics
	8:45 - 9:00	Early Radiometric Calibration Performance of Hydrosat's VNIR Instruments on VZ-1 and VZ-2: Pre-Launch Characterization and Initial On-Orbit Cross-Calibration: William Thomas, Hydrosat
	9:00 - 9:15	High-Precision 3D Geometric Calibration and Validation Sites from Multi-Modal Satellite and Airborne Elevation Datasets: Shashank Bhushan, NASA Goddard Space Flight Center & University of Maryland
	9:15 - 9:30	EROS Cal/Val Center of Excellence and Partners Level 2 Validation 2025 Annual Comparison: Garrison Gross, USGS-KBR
	9:30 - 9:45	Consideration of Correlations in Radiometric Measurements of the Environment: Julia Marrs, NIST
Break	**9:45 - 10:00**	**Break**
	10:00 - 10:15	Geometric Correction and Radiometric Validation of Landsat Lunar Images: Jie Shan, Purdue University
	10:15 - 10:30	Geometric Validation and Refinement of Landsat 8/9 Orthoimage Products: Jie Shan, Purdue University

Spatial, Geometry, & Elevation **Chairs:** **Mike Choate, USGS** **Jeff Irwin, USGS**	10:30 - 10:45	Beyond Geometric Error: A Physics-Based Integrity and Accuracy Rating for Next-Generation Remote Sensing Data: Shawana Johnson, Global Marketing Insights, Inc
	10:45 - 11:00	Forensic Satellite Archeology of Historic Calibration Sites: Mark Abrams, Exquisite Geolocation Systems
	11:00 - 11:15	A Semi-Monte Carlo Technique for Evaluating True Image Spatial Resolution: Bin Tan, GSFC/SSAI
	11:15 - 11:30	Preliminary Geometric Performance of the Pelican Constellation: Saif Aati, Planet Labs
	11:30 - 11:45	Geolocation Accuracy Assessment of National Agriculture Imagery Program (NAIP) Orthoimages Across State Boundaries: Paul Bresnahan, USGS-KBR
	11:45 - 12:00	NOAA's SatBathy Desktop Tool: Gretchen Imahori, NOAA
Thursday Lunch		
Break	**12:00 - 1:00**	**Lunch & Poster/Vendor Viewing**
Optional	**12:30 - 1:30**	**CEOS Side Meeting** **Room 1C400 (Right outside auditorium doors near podium)**
Thursday Afternoon		
Afternoon Sessions Begin at 1:30 pm following lunch		
Active Sensors **Chairs:** **Brian Feathers, NGA** **Dath Mita, USDA**	1:30 - 1:45	Developments in the Umbra SAR constellation: Paul Woodford, Umbra Space
	1:45 - 2:00	Automating the Ground Control Process with AI-Generated Synthetic Imagery in the ESA EDAP+ Assessment: Mark Abrams, Exquisite Geolocation Systems
	2:00 - 2:15	Watching the Earth Change: How Reliable Revisit Enables Time-Series Science: Vincent Hurley, ICEYE US
	2:15 - 2:30	Global elevation data from NASA's ICESat-2 mission: Denis Felikson, NASA Goddard Space Flight Center
	2:30 -2:45	Advantages of Third-Party Processing for High Resolution Commercial SAR CPHDs: Jeff Pennings, Wolverine Radar
Break	**2:45 - 3:00**	**Break**
Quality & Accuracy Impacts to Data Fusion **Chairs:** **Dave Case, USGS** **Christa Johnson, NGA**	3:00 - 3:15	System Characterization and Evaluation of Remote Sensing Imagery- Lessons Learned from EDAP Evaluation: Aparajithan Sampath, KBR Contractor to US Geological Survey, EROS Data Center
	3:15 - 3:30	Uncertainty-Aware Modeling of Remote Sensing Data: From measurement uncertainty to Decision Analytics: Afreen Siddiqi, Massachusetts Institute of Technology
	3:30 - 3:45	Satellite derived bathymetry vertical accuracy independence on satellite mission and processing method: Monica Palaseanu-Lovejoy, USGS / Geology, Minerals, Energy and Geophysics (GMEG) Science Center
Panel	**3:45 - 4:30**	**Quality & Fusion Panel**
Friday Morning		
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Trust, Traceability, &	8:30 - 8:45	US Engagement with Technical Content for International Geospatial Standards: David Stolarz, GeoSDO

Standards **Chairs:** **Jeff Clauson, USGS** **Dana Ostrenga, NASA**	8:45 - 9:00	Landsat Next Near-lossless Image Compression Strategy: Matthew Montanaro, NASA Goddard Space Flight Center
	9:00 - 9:15	Towards a Scalable, Trust-Based Certification System for Earth Data: Zorana Jelenak, UCAR/UPC/CPAESS
	9:15 - 9:30	Advances in Commercial EO Imagery Product Standards: Monica Rios, NGA/ QS
Break	**9:30 - 9:45**	**Break**
Calibrating Satellite Constellations **Chairs:** **Mike Choate, USGS** **Esad Micijevic, USGS**	9:45 - 10:00	Update on calibration & validation of Newsat constellation: Emidio Bueno, Satellogic
	10:00 - 10:15	WorldView Legion Geolocation Accuracy Calibration and Performance: Ryder Whitmire, Vantor
	10:15 - 10:30	WorldView Legion Constellation Instrument Geometric Calibration: Steven Hartung, Vantor
	10:30 - 10:45	Building a thermal digital twin - operational results from OroraTech's high revisit constellation: Ignacio Zuleta, OroraTech GmbH
Atmospherics **Chairs:** **Gerry Peltzer, NOAA** **Melissa Martin, NASA**	10:45 - 11:00	Earthnet data assessment project (EDAP+) - Latest assessments using the Maturity Matrix and Guidelines tailored for the Atmospheric domain: Leo De Laurentiis, ESA & Chloe Helenè Martella, Serco for ESA
	11:00 - 11:15	The NOAA NESDIS Commercial GNSS-R Ocean Surface Winds Pilot Project: Gerard Peltzer, NOAA NESDIS Commercial Data Program, Science and Technology Corporation (STC)
	11:15 - 11:30	Greenhouse Gas Emission Monitoring with the GHGSat Constellation: Progress and Performance: Jason McKeever, GHGSat
Closing Remarks	11:30 - 11:45	**JACIE 2026 Closing Remarks**: Cody Anderson, USGS