Program at a Glance

Time (CDT)	Day 1 – Tuesday, May 19, 2026
2:00 - 2:30 PM	Arrival at Jackson Center and Registration
2:30 - 3:00 PM	Opening Remarks - Nicolas Longepe and Rahul Ramachandran
3:00 - 4:30 PM	Agency Perspectives
4:30 - 5:30 PM	Technical Keynotes
6:00 - 8:00 PM	Non-Host Social Dinner at USSRC Saturn V Hall

Time (CDT)	Day 2 – Wednesday, May 20, 2026			
7:00 - 8:00 AM	Arrival at Jackson Center and Registration			
8:00 - 8:30 AM	Classroom A Intro and Keynote		Classroom B Intro and Keynote	
8:30 - 10:30 AM	Good practices for GFM development and deployment Oral Session		Science-based approaches to benchmarking and evaluating FMs in EO Oral Session	
10:30 - 11:30 AM	Poster Session		Collaborative Discussion	
11:30 - 1:00 PM	Lunch			
1:00 - 3:00 PM	Agentic AI for EO and its integration with FMs Oral Session	From Operational Needs to FM Design: A Co-Design Lab for Disaster-Ready EO FMs Hands-On Session	Operational Geospatial AI: Fine-Tuning, Inference, and Scalable EO	Collaborative Discussion

3:00 - 5:00 PM	Building Agentic Earth Intelligence: A Hands-On Tour of the EVE Platform and Tool Ecosystem Hands-on Session	Earth Embeddings for EO: Retrieval, Discovery, and Change-Oriented Search Hands-On Session	Model Serving Hands-On Session	
5:00 - 5:30 PM	Closing Remarks			

Time (CDT)	Day 3 – Thursday, May 21, 2026	
7:00 - 8:00 AM	Arrival at Jackson Center and Registration	
8:00 - 8:30 AM	Classroom A Intro and Keynote	Classroom B Intro and Keynote
8:30 - 10:30 AM	Latest advances in AI FMs Oral Session	Adapting FMs to geospatial data (multimodal, multiresolution, etc. including Language Models, VLMs) and specific EO tasks Oral Session
10:30 - 12:30 PM	Latest advances in AI FMs Oral Session	Towards Operational and Commercial use of FMs in EO Oral Session
12:30 - 2:00 PM	Lunch	
2:00 - 3:00 PM	Poster Session	Collaborative Discussion
3:00 - 5:00 PM	Exploring embedding space for causality, science discovery, semantic data mining and data volume reduction Oral Session	Science-based approaches to benchmarking and evaluating FMs in EO Oral Session
5:00 - 5:30 PM	Closing Remarks	

Time (CDT)	Day 4 – Friday, May 22, 2026			
7:00 - 8:00 AM	Arrival at Jackson Center and Registration			
8:00 - 8:30 AM	Classroom A Intro and Keynote		Classroom B Intro and Keynote	
8:30 - 12:30 PM	Building a GeoAI Agent: A Hands-On Tutorial on Agentic Foundation Models for Earth Observation Hands-On Session	Building Scalable AI EO Workflows: TerraTorch Embedding Workflows & TerraTorch Iterate for Zero-Invasive HPO and NAS Hands-On Session	Quantitative Evaluation and Science-Driven Use of Weather Foundation Models Hands-On Session	Collaborative Discussion
12:30 - 1:00 PM	Closing Remarks			

Detailed Program

Day 1 – Tuesday, May 19, 2026

2:00 - 2:30 PM Arrival and Registration

Arrival at Jackson Center
Sign in at Registration Table
Receive Name Tag

2:30 - 3:00 PM Opening Remarks

Nicolas Longepe - 1st ESA/NASA Workshop Success
Rahul Ramachandran - 2nd ESA/NASA Workshop Goals

3:00 - 4:30 PM Agency Perspectives

Speakers to be announced

4:30 - 5:30 PM Technical Keynotes

Speakers to be announced

6:00 - 8:00 PM No-host Social Dinner

United States Space and Rocket Center Saturn V Hall

Day 2 – Wednesday, May 20, 2026

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8:00 - 8:30 AM Classroom A Introduction and Keynotes

Speakers to be announced

8:00 - 8:30 AM Classroom B Introduction and Keynotes

Speakers to be announced

8:30 - 10:30 AM Classroom A Oral Session: Good practices for GFM development and deployment

Geospatial Exploration and Orchestration Studio: An integrated platform for fine-tuning, inference, and orchestration of geospatial AI models by Edwards et al

TerraKit: An Open-Source Python Library for Streamlining Multimodal and Multiresolution Data Access for Geospatial Foundation Models by Lickorish et al

TerraTorch: A Standardized Open-Source Framework for Embedding Generation and Fine-Tuning of Geospatial Foundation Models by Kienzler et al

Benchmarking and Scaling Earth Observation Foundation Models with vLLM and Kubernetes Orchestration by Gazzetti et al

Hawaii Cropland Data Layers (HCDL) V2.0: Leveraging Satellite Embeddings for Operational Crop Mapping by Li et al

Cross Sensor Emerging Thermal Hotspot Dynamics for Urban Climate Intelligence Using Multi-Resolution Earth Observation Data by Patel et al

Enhanced onboard autonomy, versatility and performance by geospatial foundation models by Longepe et al

8:30 - 10:30 AM Classroom B Oral Session: Science-based approaches to benchmarking and evaluating FMs in EO

GEO-Bench-2: From Performance to Capability, Rethinking Evaluation in Geospatial AI by Fraccaro et al

Toward Holistic Benchmarking of Earth Observation Foundation Models - N. LaHaye et al

Benchmarking Geo-Foundation Models for Glacial Lake Mapping: supporting global scale applications by Kaushik et al

Do EO foundation models encode land-use semantics? A distance-based evaluation with seasonal Harmonized Landsat–Sentinel data by Islam et al

WaterBench & MMOcean: Benchmarking and Pretraining Foundation Models for Coastal and Marine Earth Observation by Prasad et al

Benchmarking Geospatial Foundation Models for LULC Segmentation Under Resolution and Sensor Shifts by Hucko et al

SkySpector: From Caption Matching to Archive Search with a Multi-Positive Benchmark by Tomoiaga et al

10:30 - 11:30 AM Poster Session and Collaborative Discussion

Collaborative Discussion Topic: Embeddings

Poster Sessions:

Earth Embeddings as Products: Taxonomy, Ecosystem, and Standardized Access by Corley et al

RasterFlow: A Planetary-Scale Inference Engine for Earth Observation Data by Corley et al

Advancing Climate-Resilient Coastal Habitat Monitoring with Earth Observation Foundation Models by Jones et al

Semantic Change Detection: Leveraging Low-Dimensional Embedding Distances for Phenological Invariance by Ralser et al

Prototype-based metric learning for crop type segmentation by Kustura et al

Frontier Models on the Frontier: Applying the Newest Class of Vision Transformer Foundation Models to Monitor the Boreal-Tundra Vegetation Gradient in Alaska by Frost et al

From Consensus to Completeness: Advancing Geospatial Foundation Models for Sparse Global High Resolution Land Cover Mapping by Brovelli et al

Multi-Task Pre-training Recipe for RS Foundation Model by Leifman et al

Foundation Models for Operational Land Cover Mapping: Integrating Semantic Embeddings with Consensus Priors by Brovelli et al

Deep CNN-Driven Lithological Mapping Using HHO-Optimized ResNet-18 and GoogleNet Architectures by Bahrami et al

Mapping Earth's ecology from space with Prithvi-EO and TerraMind by Watson et al

Delivering Rapid, Low-Cost Atmospheric Composition Forecast Guidance: A Fine-Tuned Prithvi WxC System for End-User Decision Support by Raman et al

Beyond the Beam: Scaling ICESat-2 Canopy Heights with Earth Embeddings by More et al

Benchmarking Prithvi-WxC for flash drought prediction by Kansara et al

Lessons learned comparing the Downstream Outputs of the Prithvi EO Foundational Model and land cover classifications based on Google's AlphaEarth Foundations data by Cherrington et al

Sat2SSC: Integrating Satellite-based Remote Sensing and Machine Learning for Suspended Sediment Monitoring by Talchabhadel et al

Fine-Tuning AlphaEarth for Accurate Mapping of Humidity-Driven Andean Ecosystems by Narvaez et al

Adapting Earth Observation Foundation models for Cloud to surface projections by Avinashe et al

Foundation Vision Model for Aquatic Systems: Example of Algal Bloom Mapping Using Harmonized Landsat-Sentinel-2 by Lima et al

SpotDiff: Zero-Shot Change Detection via Foundation Model Composition by Upadhyaya et al

Scalable Cropland Extent Mapping using Google Satellite Embedding and Vision Transformers by Araujo et al

Geospatial Foundation Models for Environmental Monitoring by Margolis et al

Geospatial Foundation Models: Insights from Mining Detection and Forest Architecture Modelling by Redana et al

Extrapolating Wildfire Fuel Fuel Models to Novel Geographies Using Earth Observation Foundation Model Embeddings by DeMilt et al

Risk-Aware Guardrailing for Agentic Scientific Synthesis: A Taxonomy, Benchmark, and LLM-Based Risk Agent for Operational AI Workflows in Earth Observation by Tchrakian et al

Advantages of Biome-Specific Foundation Models for Autonomous Savanna Management and Economic Modeling by Hylind et al

TerraMind for agricultural damage mapping: benchmarking foundation-model transfer across hazards and regions by Van Den Hoek et al

Creating Cloud-Free, Gap-Filled HLS Data Using Prithvi HLS and GeoNEX by Cherrington et al

Prithvi WxC-Guided Bias Correction of GEOS-FP PM2.5 Forecast over the Continental United States by Salman et al

Science-Based Benchmarking of Machine Learning Approaches for Seasonal Sea Surface Temperature Anomaly Forecasting in Coastal Systems: A Case Study of Delaware Bay, USA by El Safty et al

Guardrails for GeoAI: An Agentic Validation Framework for Geospatial Foundation Model Outputs by Pantha et al

Agentic UI for GeoAI: An Intent-Driven Framework for Iterative Geospatial Analysis by Pantha et al

Axiom: A Benchmarking Platform for Science-Based Evaluation of AI Foundation Models in Earth Observation by Pantha et al

Testing the Promise of Earth Observation Foundation Models for Drought Early Warning and Food Security by Shukla et al

A Flexible Foundation Model Framework for Early Warning Earth System Digital Twins by Sleeman et al

Operational Parameter Efficient Adaptation and Uncertainty Estimation on NASA HLS and ESA Sentinel Multisensor Data by Moreno et al

Operational Evaluation of Multisensor EO Models Under Perturbation and Domain Shift Using NASA HLS, ESA Sentinel Data and BenchEO-Ops by Moreno et al

Leveraging Earth Observation Foundation Model Embeddings for Characterizing Soil Properties by Qu et al

Satellite Embedding Fields for Landscape Change Attribution: The Role of Representation Format and Training Design by Burns et al

Towards Near-Real-Time Land Cover Digital Twins Using the Prithvi Geospatial Foundation Model by Shumilo et al

Reconciling Global Greenhouse Gas Budgets with Quantum-Enhanced Artificial Intelligence by Gay et al

HLS-GPT: A Generative Pretrained Transformer (GPT) Model for Accurate Harmonized Landsat and Sentinel-2 (HLS) Reflectance Time Series Reconstruction by Zhang et al

Capacity Building Via NASA EarthRISE Applied Artificial Intelligence and Deep Learning Book by Mayer et al

11:30 - 1:00 PM Lunch

1:00 - 3:00 PM Oral Session: Agentic AI for EO and its integration with FMs

A Knowledge Graph-Enhanced Pipeline for Scalable and Traceable Gap Analysis in Earth Observation Literature by Moses et al

EVE: An Open Agentic Platform for Earth Intelligence by Atrio et al

Earth AI Agents: Operationalizing Downstream Use of Geospatial Foundation Models with Agentic Workflows by Bell et al

Hydrology Copilot: A Cloud-Native AI System for Hydrological Data Analysis by Hashemi et al

Agents for Science: A Framework for Verifiable Evaluation and Correction of Scientific Text by Barry et al

GeoAI agents for Earth Observation: from questions to insights by Thomas et al

Agentic AI for Bridging Earth Foundation Models and Process-Based Benchmarking in ILAMB by Wang et al

1:00 - 3:00 PM Hands-On Session: From Operational Needs to FM Design: A Co-Design Lab for Disaster-Ready EO FMs

1:00 - 5:00 PM Hands-On Session: Operational Geospatial AI: Fine-Tuning, Inference, and Scalable EO Model Serving

1:00 - 5:00 PM Collaborative Discussion

3:00 - 5:00 PM Hands-On Session: Building Agentic Earth Intelligence: A Hands-On Tour of the EVE Platform and Tool Ecosystem

3:00 - 5:00 PM Hands-On Session: Earth Embeddings for EO: Retrieval, Discovery, and Change-Oriented Search

5:00 - 5:30 PM Closing Remarks

Day 3 – Thursday, May 21, 2026

7:00 - 8:00 AM Arrival and Registration

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8:00 - 8:30 AM Classroom A Introduction and Keynotes

Speakers to be announced

8:00 - 8:30 AM Classroom B Introduction and Keynotes

Speakers to be announced

8:30 - 10:30 AM Classroom A Oral Session: Latest advances in AI FMs

COP-GEN: Stochastic Generative Modelling of Copernicus Data by M. Espinosa et al

Ranking the Changes: Reinforced Best-of-N Ranking with Retrieval-Augmented Vision-Language Models for Semantic Change Captioning by R. Kazoom et al

Open-World Change Detection via Natural Language by F. Yu et al

TerraVerse: Simulating Future Satellite Mission Imagery by B. Blumenstiel et al

Towards Knowledge Guided Pretraining Approaches for Multimodal Foundation Models: Applications in Remote Sensing by P. Ravirathinam et al

SatVision-Pix4D: Toward Improved Cloud and Convection Prediction via Spatiotemporal Foundation Modeling by J. Caraballo-Vega et al

Logit–Koopman Priors for Stable, Multiscale Generative Forecasting and Transfer Diagnostics in Earth-System Foundation Models by M. Pena et al

8:30 - 10:30 AM Classroom B Oral Session: Adapting FMs to geospatial data (multimodal, multiresolution, etc. including Language Models, VLMs) and specific EO tasks

8:45 - 9:00 AM *Geospatial Foundation Models Scaling on the MajorTOM and FastTOM Datasets: Evaluation on the PhilEO Bench* by N. Dionelis et al

9:00 - 9:15 AM *Beyond Backscatter: The Case for Phase-Aware Temporal Foundation Models in Conflict Damage Mapping* by P. Barthelme et al

9:15 - 9:30 AM *A Contrastive Self-supervised Learning Model for Soil Moisture Retrieval from P-band PolSAR* by S. Khallaghi et al

9:30 - 9:45 AM *Enhancing Earth Observation Foundation Models with Sparse and Asynchronous In Situ Air Pollution Data* by G. Arvanitakis et al

9:45 - 10:00 AM *From Satellite Data, GFMs and Geo-tagged Field Photos to Reliable Agricultural Reference Data* by R. Cartuyvels et al

10:00 - 10:15 AM *Spaceborne ICESat2 and AI Foundation Model highlight asymmetric canopy height change across southeastern US forests* by C. Alvites Diaz et al

10:15 -10:30 AM *A regional-scale assessment of a foundation model approach to monitoring above-ground biomass* by M. Truong et al

10:30 - 12:30 PM Classroom A Oral Session: Latest advances in AI FMs

THOR: A Versatile, Compute-Adaptive Foundation Model for Earth Observation by A. Salberg et al

PDE foundation models are skillful AI weather emulators for the Martian atmosphere by J. Schmude et al

GeospatialVLM: Bridging Pixel-Level Reasoning and Natural Language for Operational Earth Observation by G. Mutreja et al

SpecTM: Spectral Targeted Masking for Trustworthy Foundation Models by S. Imtiaz et al

Zero-shot regional weather forecasts by B. Lutjens et al

TerraMind 2.0 by J. Jakubik et al

SHRUG-FM: Reliability-Aware Foundation Models for Earth Observation by R. Cartuyvels et al

10:30 - 12:30 PM Classroom B Oral Session: Towards Operational and Commercial use of FMs in EO

Practical application of Prithvi-EO-2.0 to real world tasks: evaluating mapped predictions of forest biomass, land use, and landscape change agent by R. Kennedy et al

Hierarchy-Native EO Foundation Models for Real-Time Digital Twins by M. Pena et al

Dense MWIR Embeddings for Ultra-Low-Latency Wildfire Detection in Commercial EO by M. Rotzer et al

Global Monitoring and Risk Assessment of Mining and Human Activity for Decision Making at Both Scale and Speed Using Foundation Models by R. Lav et al

From Earth Foundation Models to Operational Decision Support: Application of GFT in Real-World Power Grid Operations by S. Flampouris et al

From Static Indices to Adaptive Multi-Hazard Vulnerability Models: EO-Informed, Uncertainty-Aware Risk Stratification for Urban Response by D. Johnson et al

EarthDaily FM - High-Cadence Geospatial Foundation Models for Real-World Agricultural Forecasting by C. Rampersad et al

12:30 - 2:00 PM Lunch

2:00 - 3:00 PM Poster Session and Collaborative Discussion

Collaborative Discussion Topic: Benchmarking

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Deployable Learned Compression for Satellite Imagery on MPSoC/FPGA Payloads Using Hardware-Aware Transforms and Bit-Exact Entropy Coding by Bui et al

Context-Aware Multimodal Representation Learning for Spatio-Temporally Explicit Environmental Modelling by Peters et al

Text-Aligned Earth Observation Embeddings for Natural Language Search and Discovery by Gilman et al

Reinforcement Learning for Adaptive Environmental Sensing with Self-Supervised Hyperspectral Foundation Representations by Nasr Azadani et al

Foundation Model Embeddings as Contextual Priors for Hyperlocal Near-Surface Air Temperature Mapping by Devajji et al

Embeddings to Action: Scalable Workflows and Insights from Global-Scale Earth Observation Foundation Models by Shah et al

3:00 - 5:00 PM Classroom B Oral Session: Science-based approaches to benchmarking and evaluating FMs in EO

Towards Disaster-Ready Earth Observation Foundation Models by J. Van Den Hoek et al

Benchmarking Geospatial Foundation Models For Dynamic Irrigation Mapping by E. Jalilvand et al

GELOS: An Embedding-Centric Benchmark for Geospatial Foundation Models by S. Khallaghi et al

TerraMind vs. THOR: A comparative analysis of two Geospatial Foundation Models by N. Longepe et al

SciBench-EO: Physics-Aware Benchmarking of Foundation Models for Earth Observation by R. Rizk et al

Operational Trust through 20ESP: A Rigorous Taxonomy for Science-Based EO Foundation Model Benchmarking by J. Cardille et al

Adversarial Robustness in Earth Observation: A Unified Benchmark Across Tasks, Models, and Datasets by V. Marsocci et al

5:00 - 5:30 PM Closing Remarks

Day 4 – Friday, May 22, 2026

7:00 - 8:00 AM Arrival and Registration

Arrival at Jackson Center
Sign in at Registration Table
Receive Name Tag

8:00 - 8:30 AM Classroom A Introduction and Keynotes

Speakers to be announced

8:00 - 8:30 AM Classroom B Introduction and Keynotes

Speakers to be announced

8:30 - 12:30 PM Hands-On Session: Building a GeoAI Agent: A Hands-On Tutorial on Agentic Foundation Models for Earth Observation

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8:30 - 12:30 PM Hands-On Session: Quantitative Evaluation and Science-Driven Use of Weather Foundation Models Hands-On Session

8:30 - 12:30 PM Collaborative Discussion

12:30 - 1:00 PM Closing Remarks