

PROPOSED SCIENTIFIC SESSION PLAN

12–14 October 2026 | 9:00 a.m.–5:00 p.m. | Single-track programme

Planning note. The attached abstract sheet lists 61 oral and 37 poster contributions. At 20 minutes per oral contribution (15 minutes presentation plus 5 minutes Q&A), the three-day programme with daily lunch and two high-tea breaks provides full oral slots.

Poster and oral distribution by session: Based on the final-decision column in the attached abstract sheet, the 97 classified contributions break down as follows:

Session	Oral presentations	Poster presentations	Total
Session 1: Reference Systems, Frames, and Height Systems in Physical Geodesy	6	6	12
Session 2: Innovative Technologies in Terrestrial, Airborne, and Satellite Geodesy: Instrumentation and Analysis	17	8	25
Session 3: Satellite Gravity Missions and Global Gravity Field Modelling	7	6	13
Session 4: Geodesy for Climate, Natural Hazards and Earth System Processes – Regional and Global Perspectives	9	5	14
Session 5: Regional and Local Geodetic observations and their Geophysical Interpretation with special emphasis on the Indian Tectonic Plate	13	9	22
Session 6: Challenges and Solutions in Modernization of Reference Datums	6	5	11
Total	58	39	97

Daily timetable: 12-10-2026

Time	Activity-I	Activity-II
9:00–11:00	Oral presentations 1–6 (Session 1/6)	Poster Display of Session 1/6
11:00–11:20	Forenoon high tea	
11:20–13:00	Oral presentations 7–11 (Session 3)	
13:00–14:00	Lunch	
14:00–16:00	Oral presentations 12–17 (Session 1/6)	Poster Display of Session 3
16:00–16:20	Afternoon high tea	
16:20–17:00	Oral presentations 18–20 (Session 3)	

Daily timetable: 13-10-2026

Time	Activity-I	Activity-II
9:00–11:00	Oral presentations 1–6 (Session 2)	Poster Display of Session 2
11:00–11:20	Forenoon high tea	
11:20–13:00	Oral presentations 7–11 (Session 2)	
13:00–14:00	Lunch	
14:00–16:00	Oral presentations 12–17 (Session 2)	Poster Display of Session 2
16:00–16:20	Afternoon high tea	
16:20–17:00	Oral presentations 18–20 (Session 5)	

Daily timetable: 14-10-2026

Time	Activity-I	Activity-II
9:00–11:00	Oral presentations 1–6 (Session 5)	Poster Display of Session 5
11:00–11:20	Forenoon high tea	
11:20–13:00	Oral presentations 7–11 (Session 5)	
13:00–14:00	Lunch	
14:00–16:00	Oral presentations 12–17 (Session 4)	Poster Display of Session 4
16:00–16:20	Afternoon high tea	
16:20–17:20	Oral presentations 18–20 (Session 4)	
Valedictory Function		

Day 1 — Monday, 12 October 2026

Session 1/6: Reference Systems, Frames, and Height Systems in Physical Geodesy

Time	ID	Presenter	Title
9:00–9:20	29	Jaakko Mäkinen	Absolute-gravimeter comparison is not absolute-gravimeter calibration
9:20–9:40	92	Homood Alotaibi	Establishing an Absolute Gravity Network for the Gulf Region: Traceability, Metrology, and Geodetic Applications
9:40–10:00	95	Yagyesh Chander	Towards a New Indian National Gravity Datum for High-Accuracy Geoid Realization
10:00–10:20	20	Georgios Vergos	Recent progress in establishing the International Height Reference Frame (IHRF)
10:20–10:40	77	Jianliang Huang	Second Solution for Geopotentials at IHRF Sites in Canada
10:40–11:00	52	Ole Andersen	A global vertical lowest astronomical offshore reference datum – DTU25LAT

Forenoon high tea (11:00 -11:20) & Interaction of Posters

Session 3: Satellite Gravity Missions and Global Gravity Field Modelling

Time	ID	Presenter	Title
11:20–11:40	3	Yunzhong Shen	A Regularized Static Gravity Field Estimation from GOCE, GRACE and Swarm observations based on Full Signal Variance-Covariance Regularization Matrix
11:40–12:00	15	Hugo Lecomte	High-Resolution GRACE Gravity Field Determination over Queen Maud Land Using Geographically Weighted Regression
12:00–12:20	18	Tao Jiang	WHU-CASM-UGM2025: A Degree-10800 Global Gravity Field Model Augmented by High-Resolution Topography
12:20–12:40	23	Aishwarya Beena	Assessing the improvements in monitoring hydrological extremes through line-of-sight gravity differences in the context of the MAGIC constellation
12:40–13:00	66	Bjarke Nilsson	Derivation of a global SWOT-derived gravity with regional optimization

Lunch (13:00 – 14:00)

Session 1/6: Session 6: Challenges and Solutions in Modernization of Reference Datums

Time	ID	Presenter	Title
14:00–14:20	17	Tobias Bauer	Geodetic infrastructure for height determination in Europe
14:20–14:40	16	Hugo Lecomte	Finnish Regional Chrono-Geoid Determination Using Least-Squares Collocation
14:40–15:00	41	Somalin Nath	Towards a Unified Vertical Datum for India: Challenges and Future Perspectives
15:00–15:20	86	Chokila NA	DrukGeoid: Modernizing Bhutan's National Geoid Model Using Airborne Gravimetry and Advanced Global Geopotential Models
15:20–15:40	21	Sushmita Timilsina	Towards modernizing the height system of Nepal: Leveraging GNSS and gravity observations for global compatibility
15:40–16:00	93	Neeraj Gurjar	Redefinition of Indian Vertical Datum

Afternoon high tea (16:00 -16:20) & Interaction of Posters

Session 3: Satellite Gravity Missions and Global Gravity Field Modelling

Time	ID	Presenter	Title
16:20–16:40	75	Chethan Varadaganahalli Anandagowda	Assessing Ocean Tide Model Errors and Their Implications for Satellite Gravity Field Recovery
16:40–17:00	81	Padmavathi Bevara	Projection of Long-Term Variations in Total Water Storage Across the Indian Subcontinent Utilizing GRACE Satellite Data and Climate Variables Through Machine Learning Techniques.

Day 2 — Tuesday, 13 October 2026

Session 2: Innovative Technologies in Terrestrial, Airborne, and Satellite Geodesy: Instrumentation and Analysis

Time	ID	Presenter	Title
9:00–9:20	38	Adam Ciesielski	Gravity measurements in remote Arctic conditions with an absolute quantum gravimeter
9:20–9:40	39	Ole Andersen	BathDNN25: Global Bathymetry Prediction From SWOT-Derived Gravity Features Using Deep Neural Networks
9:40–10:00	40	Sreejith KM	Retrieval of global Vertical Gravity Gradient (VGG) from Surface Water Ocean Topography (SWOT) data: New insights into the ocean floor tectonics
10:00–10:20	43	Ole Andersen	Improving Coastal and Shallow-Water Marine Gravity Recovery Using 250 m SWOT Unsmoothed Data
10:20–10:40	45	Ole Andersen	Lake geoid correction grids based on the SWOT Raster product.
10:40–11:00	51	Asha Vincent	Towards a Next-generation Clock-based Height System

Forenoon high tea (11:00 -11:20) & Interaction of Posters

Session 2: Innovative Technologies in Terrestrial, Airborne, and Satellite Geodesy: Instrumentation and Analysis

Time	ID	Presenter	Title
11:20–11:40	22	Christian Voigt	Realisation of a Superconducting Gravimeter Network in Germany
11:40–12:00	30	Eveliina Nuttunen	Absolute quantum gravimeter comparison within the EQUIP-G project
12:00–12:20	34	Adam Ciesielski	Tidal analysis using data from an absolute (quantum) gravimeter
12:20–12:40	36	Chandra Prakash Dubey	Tripartite Lithospheric Nature Beneath the Segmented Western Ghats Escarpment, India
12:40–13:00	37	Robert Szymko	Assessment of ambient seismic noise impact on the AQQ-B07 absolute quantum gravimeter stability in different environments (within the QuGrav Project)

Lunch (13:00 – 14:00)

Session 2: Innovative Technologies in Terrestrial, Airborne, and Satellite Geodesy: Instrumentation and Analysis

Time	ID	Presenter	Title
14:00–14:20	55	Vadim Vyazmin	Strapdown airborne gravimetry in East Antarctica: First results from the AGP-Grav system
14:20–14:40	57	Przemysław Dykowski	European QUantum Infrastructure Project for Gravimetry
14:40–15:00	58	Przemysław Dykowski	Testing the AQG-B07 absolute quantum gravimeter within the QuGrav Project
15:00–15:20	60	Bjarke Nilsson	Status on global marine geodesy from the introduction of wide-swath altimetry
15:20–15:40	80	Ismael Foroughi	Spatial resolution gain from airborne vector gravimetry for geodesy and geophysics
15:40–16:00	91	Anish Mishra	Physics-Informed CNN Conditional Variational Autoencoder for 3D Gravity Inversion: Application to the Singhbhum Banded Iron Formation Belt, Eastern India

Afternoon high tea (16:00 -16:20) & Interaction of Posters

Session 5: Regional and Local Geodetic observations and their Geophysical Interpretation with special emphasis on the Indian Tectonic Plate

Time	ID	Presenter	Title
16:20–16:40	74	Ashutosh Srivastava	Thermomechanical Structure of the Indian Plate Revealed by Spectral Estimates of Effective Elastic Thickness and Flexural Moho Geometry
16:40–17:00	76	Gayatri Mokashi	Towards Geologically Realistic Three-Dimensional Gravity Inversion through Adaptive Regularization and Monotonic Density Constraints

Day 3 — Wednesday, 14 October 2026

Session 5: Regional and Local Geodetic observations and their Geophysical Interpretation with special emphasis on the Indian Tectonic Plate

Time	ID	Presenter	Title
9:00–9:20	4	Pavel Mikhailov	Combined Use of Marine Gravimetry and Global Gravity Models with Accounting for Local Model Errors
9:20–9:40	32	Ravi Prakash Mishra	Subsurface Density Distribution and Lithospheric Compensation Architecture of the Southern Indian Shield: Insights from Gravity Modeling and isostatic analysis
9:40–10:00	33	Niraj Kumar	Geopotential Constraints on Lithospheric Architecture of the Eastern Indian Shield: Insights from Integrated Gravity, Geoid, Heat Flow and Topography Modelling
10:00–10:20	54	Anike Majumdar	Gravity Inversion of Bouguer Anomaly Data for Investigating the Crustal Density Structure of the Deccan Volcanic Province, India
10:20–10:40	59	Sreejith KM	Structural control on rupture propagation due to 28 March 2025, Mw 7.7 Mandalay (Myanmar) earthquake: Insights from SAR, Optical and gravity data
10:40–11:00	71	Joshi Cathernie K	Geodetic Strain Rates Using a Physics Based Approach in the Nepal and Garhwal Kumaun Himalaya

Forenoon high tea (11:00 -11:20) & Interaction of Posters

Session 5: Regional and Local Geodetic observations and their Geophysical Interpretation with special emphasis on the Indian Tectonic Plate

Time	ID	Presenter	Title
11:20–11:40	78	Xiaopeng Li	Advanced Methodologies for Regional Geopotential Modeling: Topographic Density Variations, Vector Gravimetry, and Stochastic Interpolation
11:40–12:00	81	Anurag Chaurasia	Present-day deformation and fault slip rate across the Godavari Failed Rift, India: Constraints from continuous GPS observations
12:00–12:20	85	Nidhi Parashar	The Mw 6.4 Nicobar earthquake of July 28, 2025: constraints from GNSS and strong motion accelerograph observations
12:20–12:40	97	Ch. Swarnapriya	Lithospheric Heterogeneity Beneath the Cambay Rift and Adjacent Regions Revealed by Gravity Modelling
12:40–13:00	98	R Yadav	Tectonic Stress of the Indian Plate and the Surrounding Region with Satellite Gravity Gradient and Geoid Data

Lunch (13:00 – 14:00)

Session 4: Geodesy for Climate, Natural Hazards and Earth System Processes – Regional and Global Perspectives

Time	ID	Presenter	Title
14:00–14:20	7	Yilin Sun	Reconstruction of basin-scale terrestrial water storage anomalies using a water-balance framework and multi-dataset fusion strategy
14:20–14:40	14	Ellen Poli	Deep Learning Spatial Downscaling of Daily GRACE/GRACE-FO Terrestrial Water Storage Anomalies
14:40–15:00	25	George Vergos	Evaluating Scale-Separated GRACE Downscaling for Drought-Scale Terrestrial Water Storage Monitoring in the Amazon
15:00–15:20	28	Darsana Lekshmy Raj	Enhancing Separation of Low-Amplitude Signals in Temporal Gravity Data Using Neural Networks
15:20–15:40	35	Kosuke Heki	Coseismic and Early Postseismic Gravity Changes of the 2025 Mw 8.8 Kamchatka Earthquake from High-Temporal-Resolution Satellite Gravimetry
15:40 – 16:00	46	Ole Andersen	Satellite Geodesy for the ESA ARCFRESH and FRESH4BIO Arctic Freshwater projects

Afternoon high tea (16:00 -16:20) & Interaction of Posters

Session 4: Geodesy for Climate, Natural Hazards and Earth System Processes – Regional and Global Perspectives

Time	ID	Presenter	Title
16:20–16:40	63	Nidheesh Gangadharan	Geodesy for Separating Tectonic and Deep-Ocean Contributions to Regional Sea-Level Change
16:40–17:00	84	Dwijendra N. Pandey	Elastic and Seasonal Crustal Response to Contemporary Surface Mass Changes Revealed by GRACE, Satellite Altimetry, and GNSS
17:00–17:20	87	ANSHUMAN PANDEY	Monitoring Spatio-Temporal Variability of GPS-Derived Precipitable Water Vapour Associated with Heavy Rainfall and Severe Cyclonic Storm OCKHI (2017) over the Indian Shield region
Valedictory Function			

Poster programme

Poster Group/Session	ID
Session 1/6	1, 2, 6, 8, 19, 24
Session 2	41, 43, 47, 48, 56, 68, 71, 78
Session 3	5, 9, 10, 11, 53, 61
Session 4	27, 50, 62, 64, 69
Session 5	12, 13, 31, 65, 67, 72, 82, 89, 95
Session 1/6	26, 49, 87, 88, 93