



IAG Scientific Assembly 2025: Geodesy for a changing environment

Scientific Organizing Committee (SOC):

Daniela Thaller (chair), Urs Hugentobler, Srinivas Bettadpur, Rebekka Steffen, Pawel Wielgosz, Laura Sanchez, Annette Eicker, Mattia Crespi, Valérie Ballu, Jürgen Müller, Szabolcs Rózsa

LOC representatives: Stefano Gandolfi, Susanna Zerbini

Symposia	Sessions within Symposia	Conveners
G01 Reference Frames		Urs Hugentobler
	G01-1: Space Techniques: Prerequisites for current and future terrestrial and lunar missions	Krzysztof Sosnica
	G01-2: International Terrestrial Reference Frame: Challenges, future developments and applications	Mathis Bloßfeld
	G01-3: Regional Reference Frames: Status, Challenges and Applications	Fernand Bale
	G01-4: The International Celestial Reference Frame for Geodetic Applications: Requirements, Challenges, and Future Prospects	Maria Karbon
G02 Gravity Field – Science Inference		Srinivas Bettadpur
	G02-1: Gravity Field and Reference Systems in Physical Geodesy	Georges Vergos, Tao Jiang, Ismael Foroughi, Hartmut Wziontek, Hussein Abd-Elmotaal, Daniela Carrion
	G02-2: Hydrological and Cryospheric Applications from Gravity and Satellite Altimetry	Wei Feng, Shin-Chan Han, Eva Boergens, Tyler Sutterley
	G02-3: Oceanography and Solid Earth Science from Gravity and Satellite Altimetry	Cheinway Hwang, Robert Tenzer, Mirko Reguzzoni, Daocheng Yu, Lan Zhang
G03 Gravity Field – Technology and Techniques		Srinivas Bettadpur
	G03-1: Next Generation Technologies	David Wiese, Luca Massotti, Jürgen Müller,

		Derek van Westrum
	G03-2: Terrestrial Gravimetry	Przemyslaw Dykowski, Ezequiel Antokoletz, Sylvain Bonvalot, Derek van Westrum, Vojtech Palinkas, Neda Darbeheshti
	G03-3: Spaceborne Gravimetry	João Encarnação, Adrian Jäggi, Aleš Bezdek, Nadège Pie
	G03-4: Analysis, algorithms, and Models	Athina Peidou, Khosro Ghobadi-Far, Rebecca McGirr, Sinem Ince
G04 Earth Rotation and Geodynamics		Rebekka Steffen
	G04-1: Geodetic Constraints and Modeling of Glacial Isostatic Adjustment and Cryospheric Deformation Across Time Scales	Karen Simon, Matthias Willen, Carsten Ludwigsen, Lambert Caron, Ingo Sasgen
	G04-2: Tidal and non-tidal mass signatures in space and surface geodetic observations	Severine Rosat, Carla Braitenberg, Xiaoming Cui, Henryk Dobslaw
	G04-3: Monitoring and Modelling of Earth Orientation Parameters Across Temporal Scales	Henryk Dobslaw, Sigrid Böhm, Sadegh Modiri, Jolanta Nastula, Chengli Huang
	G04-4: Open Session on Earth Rotation and Geodynamics	Rebekka Steffen, José Manuel Ferrandiz, Anna Riddell, Chikondi Chisenga, Benjamin F. Chao
G05 Advances in GNSS, Positioning Technologies, and Engineering Geodesy		Pawel Wielgosz, Artur Fischer
	G05-1: Emerging Positioning Technologies and GNSS Augmentations	Heidi Kuusniemi, Fabricio S. Prol, Dinesh Manandhar, Mahmoud Elsanhoury
	G05-2: Multi-frequency, Multi-constellation GNSS	Jianghui Geng, Pawel Wielgosz
	G05-3: GNSS for Troposphere	Cuixian Lu, Galina Dick, Ningbo Wang, Jonathan Jones
	G05-4: Engineering Geodesy	Janis Kaminskis, Janina Peplinska

G06 Global Geodetic Observing System		Laura Sanchez, José Rodriguez, Detlef Angermann
	G06-1: Contribution of geodesy to Earth observations	Laura Sanchez, Richard Gross, Hansjörg Kutterer
	G06-2: Global geodetic infrastructure for Earth System Monitoring	José Rodriguez, Martin Lidberg, Lucia McCallum, Cornelia Eschelbach
	G06-3: Standardization, integration and optimization of geodetic products	Detlef Angermann, Robert Heinkelmann, Nicholas Stamatakos, George Vergos
	G06-4: Enhancement of GGOS collaboration at regional level	Claudia Tocho, Esther Azcue, Aletha de Witt
G07 ICCT – Advances in Geodetic Theory		Mattia Crespi Amir Khodabandeh Pavel Novák
	1: Gravitational field modelling and analysis for the Earth and for oblate and prolate planetary bodies and irregularly shaped celestial bodies	Michal Šprlák, Zhi Yin, Dimitrios Tsoulis
	2: Geoid/quasigeoid modelling approaches in view of cm-precision/cm-accuracy	Ropesh Goyal Sten Claessens
	3: Height datum: definition, new concepts, and standardization	Xiaopeng Li Marcelo Santos
	4: High-precision GNSS theory and algorithms	Dimitrios Psychas
	5: Geodetic quality/integrity modelling, monitoring and design	Safoora Zaminpardaz
G08 Geodesy for Climate Research		Annette Eicker, Carmen Blackwood, Balaji Devaraju, Frank Ghomsi, Maria Fernanda Camisay
G09 Seafloor Geodesy, Marine Positioning and Undersea Navigation		Valérie Ballu, Heidrun Koop
G10 Modern Concepts and Quantum Technology for Geodesy		Jürgen Müller, Jakob Flury, Marcelo Santos, Marvin Reich, Öykü Koç
G11 Geodesy for Society: Data Management, Policy Networking and Public Engagement		Martin Sehnal, Szabolcs Rózsa

	G11-1: Data Management, Dissemination of Results, and Stakeholder Networking	Anna Riddell , Roger Fraser, Markus Bradke, Taylor Yates
	G11-2: Geodesy at the Intersection of Science and Policy	Allison Craddock , Basara Miyahara
	G11-3: Communication, Education and Outreach in Geodesy	Martin Sehnal , Szabolcs Rozsa, Öykü Koc, Sujata Dhar
Joint Symposia		
J01: Geodetic Space Weather Research		Michael Schmidt , Ehsan Forootan, Fabricio Dos Santos Prol, Ningbo Wang, Andrès Calabia Aibar
J02: Artificial Intelligence and Machine Learning in Geodesy		Benedikt Soja , Maria Kaselimi
	J021: Geodetic machine learning: Theoretical challenges and opportunities for geodesy	Lotfi Massarweh , Mostafa Kiani Shahvandi, Alireza Amiri-Simkooei
	2: AI for Deformation Analysis and GNSS Remote Sensing: Earth, Atmosphere and Natural Hazards	Milad Asgarimehr , Ashutosh Tiwari, Monique Kuglitsch
	3: Decoding Earth's Dynamics: Machine Learning Frontiers in EOP and Gravity Field Assessment	Sadegh Modiri , Santiago Belda, Fupeng Li, Justyna Śliwińska-Bronowicz, Zhangli Sun
J03: Geohazards Monitoring through Geodesy		Tim Melbourne , Susanna Ebmeier, Jean-Mathieu Nocquet, Masayuki Kano, Michela Ravanelli
Highlight Sessions		
H01 Future Geodetic Satellite Missions and new Technologies		Susanne Glaser , Johannes Böhm, Carmen Blackwood
H02 Northeast Italy with focus on the Po Plain – Impacts of changing climate on the region		Stefano Gandolfi , Susanna Zerbini

H03 Geodetic Monitoring for Geohazards		Tim Melbourne, Laura Sanchez, Jean-Mathieu Nocquet
	No Call-for-Abstracts; Presentations will be by invitations only	
H04 Geodesy for Climate and Water		Carmen Blackwood, Annette Eicker, Jay Famiglietti
	No Call-for-Abstracts; Presentations will be by invitations only	