

# FRONTIERS OF GEODETIC SCIENCE 2024

Vortragsprogramm (v070824)  
Raum: M24.01

## Donnerstag

<b>26.09.2024</b>	<b>10:30-12:00</b>	<b>S. Glaser</b>	<b>3. Geodätische Referenzsysteme und Erdrotation</b>
	10:45-11:00	Lara Börger	A possible imprint of ENSO on polar motion excitation
	11:00-11:15	Anton Reinhold	On simulations studies for novel combination strategies of space geodetic techniques
	11:15-11:30	Jungang Wang	Investigating the VLBI Scale w.r.t. ITRS Realizations 2020
	11:30-11:45	Yertay Yeskali	Imaging of ICRF3 sources with European VLBI Network for phase-referencing

### Mittagspause

<b>13:00-15:00</b>	<b>D. Dettmering, J. Müller</b>	<b>5. Umweltmonitoring und Fernerkundung</b>
13:00-13:15	Peyman Saemian	Satellite Altimetry-based Extension of global-scale in situ river discharge Measurements, SAEM
13:15-13:30	Daniel Blank	Revisiting drought cascades with daily satellite observations of soil moisture and terrestrial water storage
13:30-13:45	Shahin Khalili	Fault tolerant approach to regenerate Level 1B SAR altimetry waveforms for enhancing Level 2 retrackerers performance
13:45-14:00	Zulfikar Adlan Nadzir	Sea Level Rise in Indonesia: Insights from GNSS-IR and Tide Gauges
14:00-14:15	Shuhua Yu	Improving inland water altimetry based on analyzing dual-frequency altimeter waveform data
14:15-14:30	Chinh Nguyen	Status of GFZ Global Ionospheric Disturbances Monitoring System and Initial Results
14:30-14:45	Danyang Zhao	Detecting water bodies using SWOT and ICESat-2 measurements
14:45-15:00	Bruce Enki Oscar Thomas	Ship-based GNSS contribution to tsunami warning in the North Eastern Atlantic and Mediterranean region

### Pausenkaffee

<b>15:30-17:30</b>		<b>Postersession</b>
	Yixiati Dilixiati	Next Generation Gravity Mission Simulation for Mantle Viscosity
	Charlotte Gschwind	On the use of kinematic orbits for time-variable gravity field determination
	Lingke Wang	A New Tropospheric Delay Model for High-Resolution Regional Integrated Water Vapor Retrievals Using Gaussian Mixture Long Short-Term Memory Network
	Nico Sneeuw	Remote Sensing-Based Extension of GRDC Discharge Time Series - A Monthly Product with Uncertainty Estimates
	Omid Elmi	Long-term Analysis of Global Surface Water Volume Change Using Remote Sensing Data
	Ahmed Emam	Foundation model reliability for satellite imagery
	Siqi Ke	A Method for Estimating Daily Discharge Using Space-based Discharge Estimates
	Tianqi Xiao	AI4GNSS-R: Implementing and Interpreting AI for GNSS-R Applications in Ocean and Atmosphere
	Loudi YAP	Retrieving the root-zone soil moisture from GRACE/FO-based global assimilation model GLWS2.0 and validating its dynamics using in-situ data over West Africa region

## Freitag

<b>27.09.2024</b>	<b>08:30-10:00</b>	<b>N.Sneeuw</b>	<b>1. Theoretische Geodäsie &amp; 2. Schwerefeld(1/2)</b>
	08:30-08:45	Lukas Jendges	Iterative Signal Separation with AR Processes
	08:45-09:00	Kunpu Ji	Extended Principal Component Analysis for Spatiotemporal Filtering of Incomplete Heterogeneous GNSS Position Time Series
	09:00-09:15	Klara Middendorf	Utilizing Extreme Value Theory for determining the intensity of extreme events in monthly water storage time series
	09:15-09:30	Zhourun Ye	Calculating the full tensor gravity gradient of the ocean using the SWOT satellite observations
	09:30-09:45	Clara Beck	Systematic disturbances of superconducting gravimeters – An investigation of sensor differences
	09:45-10:00	Thomas Grombein	Gravity field recovery with nano-satellites of the Spire constellation

### Pausenkaffee

<b>10:30-12:00</b>	<b>A. Eicker, T. Grombein</b>	<b>2. Schwerefeld(2/2)</b>
10:30-10:45	Hengyang Guo	Validation of SWOT L2 KaRIn Beta Prevalidated Data Based on Restore the Marine Gravity Field and Its Application
10:45-11:00	Alexey Kupriyanov	Benefits of Optical Accelerometry and Satellite Formations for Future Gravimetry Missions
11:00-11:15	Moneeshwar Srinivasan	Validation of Mass Changes Based on Recent GRACE and GRACE-FO Monthly Gravity Field Solutions
11:15-11:30	Asha Vincent	Clock-based Networks for Monitoring Global Sea Level
11:30-11:45	Viviana Wöhnke	Regional modelling of water storage variations from combined GRACE/FO and GNSS data in a Kalman filter framework