

## **4. Symposium zur angewandten Satellitenfernerkundung:**

### **Anmeldung noch bis morgen möglich**

Vom **26. bis 28. Juni 2023** findet das 4. Symposium zur angewandten Satellitenerdbeobachtung „Neue Perspektiven der Erdbeobachtung“ im WCCB in Bonn statt. **Die Anmeldung ist noch bis morgen, 12. Mai 2023, geöffnet.** Das Anmeldeformular sowie weitere Informationen und das vorläufige Programm finden Sie auf der [Dialogplattform Erdbeobachtung](#).



## **Veranstaltungen**

### **DLR-Workshop für Value Adder**

Am **24. Mai 2023 von 13:00 bis 14:30 Uhr** veranstaltet das DLR einen Workshop zu dem Thema „Deutsche Value Adder im ESA-Programm“. Grund für die Veranstaltung ist die nach wie vor geringe Beteiligung deutscher Value Adder an den Ausschreibungen der ESA (ITTs). Sowohl die Raumfahrtagentur im DLR als auch die ESA wünschen sich hier eine deutlich stärkere Beteiligung. Falls Sie Interesse haben und in einer Value Adder Firma tätig sind, kontaktieren Sie uns unter Angabe Ihres Namens und Ihrer Firma unter [eo-conference@dlr.de](mailto:eo-conference@dlr.de) mit dem Betreff „Workshop: Deutsche Value Adder im ESA Programm“.

### **FRINGE 2023**

Vom **11.-15. September 2023** organisiert die Europäische Weltraumagentur (ESA) gemeinsam mit der Universität Leeds den 12. internationalen Workshop „Advances in the Science and Applications of SAR Interferometry and Sentinel-1 InSAR“ – FRINGE 2023. Die Anmeldung wird in Kürze freigeschaltet. Alle weiteren Informationen finden Sie auf der [Veranstaltungsseite](#).

### **12<sup>th</sup> Advanced Training Course on Land Remote Sensing**

Vom **25. bis 29. September 2023** veranstaltet ESA in Zusammenarbeit mit der Universität Wrocław einen Trainingskurs zur Landfernerkundung mit Schwerpunkt Hydrologie und Naturgefahren. Für eine Teilnahme an dem Kurs können sich Postgraduierte, Doktoranden, promovierte Wissenschaftlerinnen und Wissenschaftler sowie Fachleute bewerben. Mehr Informationen zu den Inhalten und der Bewerbungen finden Sie auf der [Veranstaltungsseite](#). Eine Bewerbung ist bis zum **1. Juni 2023** möglich.

### **EO for Carbon Markets Forum 2023**

Vom **3.-5. Oktober 2023** findet das EO for Carbon Markets Forum bei der ESA in Frascati, Italien statt. Die Veranstaltung fokussiert die Nutzung von Erdbeobachtungsdaten zur Verbesserung der Transparenz und Glaubwürdigkeit auf den Kohlenstoffmärkten. Abstracts für Poster können noch bis zum **26. Mai 2023** eingereicht werden. Weitere Informationen finden Sie auf der [Veranstaltungsseite](#).

## **Stellenausschreibungen**

### **Remote Sensing Scientist – Polarimetry (3MI) | EUMETSAT**

EUMETSAT schreibt eine Stelle als Remote Sensing Scientist im Bereich Polarimetrie (3MI) in Darmstadt aus. Weitere Informationen zur Ausschreibung finden Sie [hier](#). Die Bewerbungsfrist endet am **16. Mai 2023**.

## Spezialistin / Spezialist (m/w/d) Fernerkundung und 3D-GIS | Bayerische Staatsforsten

Das Unternehmen Bayerische Staatsforsten (BaySF) sucht für den Bereich Informations- und Kommunikationstechnik am Standort München zum nächstmöglichen Zeitpunkt unbefristet eine/n Spezialistin / Spezialist (m/w/d) Fernerkundung und 3D-GIS. Nähere Informationen entnehmen Sie bitte der [Stellenausschreibung](#). Bewerbungsschluss ist der **21. Mai 2023**.

## Wissenschaftliche Mitarbeiterin / Wissenschaftlicher Mitarbeiter | BGR

Die Bundesanstalt für Geowissenschaften und Rohstoffe (BGR) sucht ab dem 1. Juli 2023 oder früher, befristet für 2 Jahre, eine wissenschaftliche Mitarbeiterin / einen wissenschaftlichen Mitarbeiter (m/w/d) für das Copernicus Netzbüro Boden, welches die Potenziale des Erdbeobachtungsprogramms Copernicus für die zukunftssträchtige und umweltverträgliche Entwicklung der Ressource Boden erschließen soll. Nähere Informationen finden Sie in der [Stellenausschreibung](#). Bewerbungsschluss ist der **23. Mai 2023**.

## Copernicus Sentinel-3 and Sentinel-3 NG Optical System and Operations Manager | ESA

Das ESTEC in Noordwijk, Niederlande, schreibt eine Stelle als Copernicus Sentinel-3 and Sentinel-3 NG Optical System and Operations Manager im Directorate of Earth Observation Programmes aus. Weitere Informationen finden Sie [hier](#). Die Bewerbungsfrist endet am **29. Mai 2023**.

## Scientist – Coupled Land-Atmosphere Reanalysis | ECMWF

Das European Centre for Medium-Range Weather Forecasts (ECMWF) schreibt eine Stelle als Scientist im Bereich *Coupled Land-Atmosphere Reanalysis* in Reading, UK oder Bonn aus. Weitere Informationen finden Sie [hier](#). Bewerbungsschluss ist der **31. Mai 2023**.

## Senior Innovation Officer | ESA

Das ESRIN in Frascati, Italien, schreibt eine Stelle als Senior Innovation Officer im Directorate of Earth Observation Programmes aus. Weitere Informationen finden Sie [hier](#). Die Bewerbungsfrist endet am **1. Juni 2023**.

## Informationen zum Erdbeobachtungsprogramm der ESA

### Open Invitations To Tender der ESA (ITTs)

Activity	Description	Budget	Closing date
<a href="#">GDA-AID: TRANSPORT AND INFRASTRUCTURE</a>	This ITT will implement the new EO information developments that respond directly to IFI operations requirements for geo-information in the thematic sector of Transport/Infrastructure. An agile development approach is to be adopted consisting of three sequential development cycles each of 6 months duration to accommodate evolving requirements for new geo-information to be developed and tested.	> 500 K€	26.05.2023
<a href="#">GDA FFF FAST EO CO- FINANCING FACILITY</a>	The GDA FFF (Fast EO Co-Financing Facility) aims to implement a rapid-response mechanism for testing and aligned integration of satellite EO services in international development projects and programmes of International Financing Institutions (IFIs) and National Development Agencies (NDAs). The facility will be set up to directly connect with activities implemented using	> 500 K€	16.06.2023

	aligned development finance resources. It will rely on a technically pre-qualified team of EO service providers and satellite remote sensing experts in GDA participating states, ensuring flexibility and agility to meet potentially short delivery timescales required by the development partners and consequently guarantee optimal operational applicability. Close cooperation with IFI/NDA partners and associated programmatic setups will facilitate channelling internal demand and prioritisation of efforts.		
<a href="#">EO BALTIC PLATFORM FOR GOVERNMENTAL SERVICES</a>	With this ITT ESA aims at developing a platform to support coordinated access and exploitation of EO-based information services by the Governments stakeholders in the Southern Baltic Countries (Estonia, Latvia, Lithuania). The platform shall integrate a priority set of services addressing the needs of public sector stakeholders and build on regional cooperation, stimulate regional uptake of EO based information and foster mature capabilities within the growing "Baltic Space Economy". This ITT contributes to FutureEO Block 4 Regional Initiatives (Baltic), aiming at new application developments addressing regional priorities, innovative scientific investigations of regional Earth system science processes as well as addressing gaps in platform capabilities supporting key regional application and science priorities.	> 500 K€	16.06.2023
<a href="#">EO4HEALTH-RESILIENCE</a>	This procurement is dedicated to developing a health resilience virtual platform and two envisaged EO based services, integrating high volume data access, processing and information dissemination to establish innovative services and applications development, responding to stakeholders and user needs, including NGOs and in the field health related activities. Establishing health related information services for the global community using space assets will be achieved by enhancing and integrating existing monitoring and assessment frameworks in cooperation with international, national, regional and local stakeholders, including NGOs, medical facilities and citizens. The underlying IT infrastructure is envisaged as an open, non-monolithic and federated network of platforms, fuelled with European EO assets to be provided under the ESA Network of Resources and Euro Data Cube. This applications element will result in one contract.	> 500 K€	07.06.2023
<a href="#">Interoperable Building Block Evolution - coordination</a>	Ensuring continuity of common architecture and international engagement in interoperability, setting the framework for generic building block development for relevant use cases (e.g. reproducible science and application propagation environments, EE G/S migration to the cloud, ...)	~500 K€/year (3 years)	23.05.2023

## Intended Invitations To Tender der ESA (ITTs)

Activity	Description	Budget	Open date
Blue Carbon Coastal	The project aims at developing new methods and new EO-based products allowing to improve to estimate and monitor the changes of the Extent and Carbon Stock of major Blue Carbon coastal ecosystems, such as mangroves, tidal and salt marshes, seagrasses.	1 M€	Planned Q2/2023
World Ecosystem Extent	This activity line will focus on the development and demonstration of globally solutions (tools) for mapping the extent of ecosystems and monitoring their changes, with demonstrations at European and global levels, in accordance with the Ecosystem Accounting standards adopted at UN and European levels.	1,5 M€	Planned Q2/2023
Ecosystem Conservation "action" with CSOs/NGOs	The activity has the overall aim of developing a set of harmonised procedures with respect to high-priority Conservation and Restoration processes. The project will require the direct pro-active involvement of several NGOs. The first objective is related to already existing protected areas and nature-positive solutions, to establish the integration of EO assets into operational practices accepted by the community. The second parallel objective will address the process for sites suitability identification.	600 K€	Planned Q2/2023
World Coast Lines	On the experience of Coastal Erosion projects and the recommendation of the Climate Modelling User Group, this activity will scale-up the algorithms and methods for coastline mapping at global level. The final product and related analytics tools should take into consideration tidal changes and erosion/accretion processes. Primary data source will be Sentinel-2 complemented with Sentinel-1.	1 M€	Planned Q2/2023
<a href="#">Stakeholders Expansion Facilities</a>	The Stakeholder Expansion Facilities will accelerate the uptake of the EO Applications by the heterogeneous end-users communities and practitioners, ensuring: stewardship of EO deliverables developed by the single projects; sharing of knowledge/expertise and showcasing the projects' results and methodologies with the diverse end-users communities; cohesion across projects in specific themes/domains enhancing their complementarity; foster and facilitate links with the large and diverse network of experts and practitioners on the policy areas; and monitoring the evolutions of international and European policies and priorities.	1,8 M€	Planned Q2/2023
<a href="#">Project Communication Enhancement with Stakeholders</a>	The objective of this contract is to amplify the communication of the recently finished, on-going, and future Applications projects with enhanced material and innovative approaches, more attractive and more efficient. The task will have to capture the results of the EO projects that deal with a heterogeneous panel of stakeholders and end-users. The	600 K€	Planned Q2/2023

	activity will include testimonials, video/podcast interviews of stakeholders/users/consortium, story maps and interactive data visualization and virtual reality productions.		
SDG 2.4 & 6.4 Pathfinder Agri- Water productivity	Develop and showcase a set of agri-water indicators related to irrigated agriculture to ensure that food production moves toward sustainable water use practices. Such indicators shall enable the various stakeholders to understand crop and water use conditions and allow performance evaluation across agriculture production systems and crops.	300 K€	Planned Q2/2023
SDG 14.1 Pathfinder Coastal Eutrophication	In partnership with UNEP, CEOS and GEOBlue Planet, develop, validate and showcase innovative indicators on coastal eutrophication at appropriate scales with demonstration of method scalability and transferability. The novel indicators shall support countries to monitor eutrophication of coastal waters and reduce nutrient pollution from land-based anthropogenic sources.	300 K€	Planned Q2/2023
SDG 15.4 Pathfinder Mountain Forest and Grassland ecosystems	In partnership with FAO, develop innovative EO approaches for the production of indicators on the extent, changes and conditions of mountain Forest and Grassland ecosystems with demonstration pilots in diverse mountainous areas. The indicators shall allow countries to assess the status of conservation and restoration of these mountain ecosystems.	300 K€	Planned Q2/2023
EO Best Practices for Health	The aim is to develop and demonstrate pre-operational capabilities to develop and demonstrate use cases integrating EO, non-EO and customized models to support enhanced management of public health. The outcomes will be established best practices for the use of EO derived information in this domain.	600 K€	Planned Q2/2023
AI4Science	Expand set of AI activities responding to the recommendations of the $\Phi$ -week with special focus on AI and Earth system sciences.	n. a.	Planned Q2/2023
<a href="#">Large Language Models for EO</a>	This activity explores Natural Language Processing (NL) and Large Language Models to interact with EO.	n. a.	Planned Q2/2023
AI Explainability for large-scale EO analytics	The activity aims to foster uptake of AI-based EO solutions by quantifying better uncertainties and integrating explainability in the machine learning blackbox.	n. a.	Planned Q2/2023
Foundation Models for EO	This activity aims to explore how to best use such "foundations" models (e.g. large-scale self-learning models) to perform a variety of EO tasks, ranging from computer vision to coding of tools.	n. a.	Planned Q2/2023
<a href="#">Network of Resources - coordination</a>	Re-procurement to ensure continuity of sponsoring industrially operated Sharing platforms for R&D use. Will be accompanied by capacity building measures oriented towards the community.	~500 K€/year (3 years)	Planned Q2/2023

Application Propagation Environment	Use of interoperable building blocks on cloud-based platforms to keep application R&D source data and results available to the community as per programmatic review recommendations of guaranteeing availability of R&D results for reuse. This will be used for demonstration to further stakeholders (e.g. RACE) and propagation towards operational use (e.g. via GTIF precursors).	1500 K€/year (2 years)	Planned Q2/2023
Reproducible Open Science Environment	Creation and Evolution of open science environments supporting the long-term sharing, reproducibility and reuse of science project workflows, algorithms and data.	1500 K€/year (2 years)	Planned Q2/2023
Information Factory Pathfinders	Explore production chains requiring availability of shared local data to be used in connection with space data in support to AI training and information factories (1st pilot:drought/irrigation Danube region).	1500 K€	Planned Q2/2023
Close to Real-time End-to end Integrated Production Chains	Explore real-time production chains closely integrating commercial mission G/S and production chains hosting downstream 3rd party applications demonstrating technology synergy across the 2 domains (1st pilot: ship detection Atlantic/Baltic region).	1000 K€ (Phase 1)	Planned Q2/2023