

5th NEWSLETTER, MAY 2026

With this 5th newsletter, we share the latest activities, updates, and achievements from our growing network. Over the past months, **PANGEOS** has continued to strengthen collaboration among researchers, stakeholders, and young professionals working in **remote sensing, agriculture, forestry and Earth observation**. This issue highlights recent meetings, scientific exchanges, training activities, outreach efforts and new opportunities for cooperation across Europe and beyond during first part of GP3. We hope this newsletter provides a useful overview of our recent progress and reflects the shared commitment of the PANGEOS community to advancing innovative, inclusive, and impactful research.

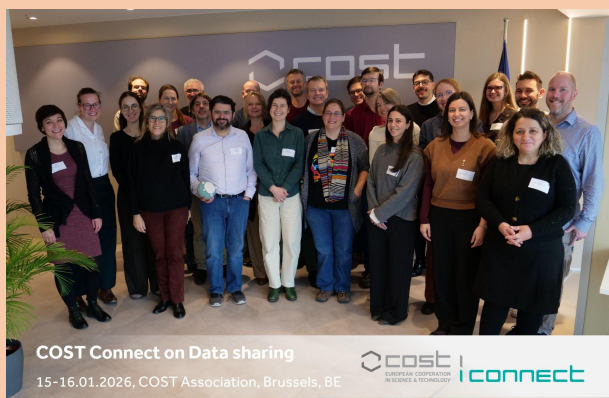
WG1+4 Meeting and Field Day (5-6 February, Marrooco)

On 5–6 February 2026, the **PANGEOS COST WG1+4 Meeting – Field Day & Deliverable Papers** was hosted at **UM6P - University Mohammed VI Polytechnic**, bringing together participants both on-site and online. The two-day meeting provided an excellent opportunity for productive discussions, knowledge exchange, and coordination of ongoing deliverables within the PANGEOS COST network. As part of the programme, participants also visited the **PHENO_MA platform** at UM6P, where they had the opportunity to learn more about its advanced research infrastructure and ongoing activities related to phenology, agriculture, and environmental monitoring. The meeting strengthened collaboration among working group members and opened new opportunities for future joint activities within the PANGEOS COST Action.



COST Connect on Data Sharing (15–16 January 2026, Brussel, BE)

Representatives from 13 COST Actions gathered at the COST Connect on Data Sharing to discuss how responsible data sharing can better support science, innovation, and interdisciplinary collaboration. The event highlighted the importance of transparent and reusable research data while addressing the different challenges and practices across scientific disciplines. PANGEOS's Science Communication team members, Emine Tanır Kayıkçı and Gordana Kaplan, actively participated in the meeting and contributed to the discussions on responsible data management and sharing practices. The gathering provided an excellent platform for exchanging experiences, strengthening cooperation among COST Actions, and exploring practical solutions for improving data accessibility and visibility in research.



Meeting in Athens- WP2 Deliverable Paper Writing (18-20 March, Athens, Greece)

A productive meeting was held in Athens focusing on the preparation of the paper for the WP2 deliverable titled *"Integrated EO and CGM: Preparation for Exploiting Current and Upcoming Data Streams."*

The discussions highlighted the importance of interdisciplinary collaboration in developing innovative approaches for data integration and analysis. Participants also reviewed timelines, task distribution, and publication strategies to ensure the successful completion of the WP2 deliverable.





PANGEOS 2nd Training School (13-18 April, Nitra, Slovakia)

The PANGEOS COST Action Training School entitled “**Remote Sensing Methods on Determining Evapotranspiration**” was successfully held in **Nitra** from 13–18 April 2026, with online pre-lectures organized on 23 March 2026.

The training school brought together researchers and young innovators to explore remote sensing approaches for estimating evapotranspiration in the context of plant phenotyping, precision agriculture, and sustainability. Participants gained practical knowledge on integrating UAV, proximal, and satellite-based observations, as well as best practices for data standardization, calibration, validation, and uncertainty analysis through case studies from the different PANGEOS Working Groups.

The event further strengthened international collaboration, capacity building, and the involvement of Young Researchers and Innovators within the PANGEOS network.



EGU General Assembly 2026 (3 – 8 May, Vienna, Austria)

EGU General Assembly 2026 session on “**BG.9.9. Data Science, Earth Observation & AI for Sustainable Agroecosystem Monitoring and Management**” brought together researchers working on innovative solutions for climate-resilient and sustainable agriculture. The session focused on advanced Earth observation technologies, machine learning, environmental monitoring networks, and data-driven approaches aimed at improving agroecosystem management and reducing environmental impacts. Discussions covered large-scale agroecosystem mapping, integration of multi-modal remote sensing data, soil–plant–water interactions, climate change impacts, and AI-based agricultural monitoring systems. Chair of PANGEOS, Shawn Kefauver was **session co-convenor** contributed valuable expertise to discussions on sustainable and data-driven agricultural management.

Science Communication Meeting (8 May, Trabzon, Türkiye)

On 8 May, the **PANGEOS COST Science Communication Meeting** was hosted at the **Karadeniz Technical University, Trabzon, Türkiye**. More than ten participants attended **face-to-face and online**. At the meeting we discussed how we can improve the visibility of the action. Also, several ideas were proposed about how the engagement of stakeholders and involvement of young researchers can be increased. Productive discussions focused on communication approaches, outreach activities, and innovative ways to strengthen engagement through social media, academic events, and collaborative initiatives.

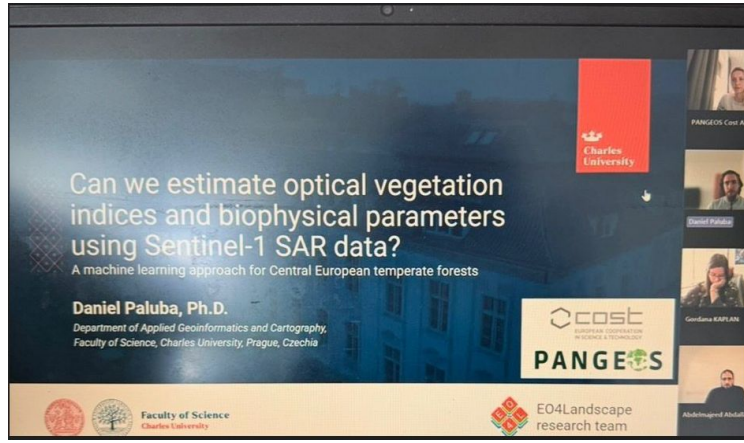


The meeting provided valuable insights into how PANGEOS can expand its impact and become more widely recognized within the scientific community.



PANGEOS WEBINAR SERIES

The PANGEOS webinar series continues to bring together experts and early-career researchers from across the network on a monthly basis. Held every month except during the summer break, each session features two presenters sharing their latest work and insights relevant to the Action's goals. To date, we have hosted 12 webinars with 23 presenters, building a growing repository of knowledge and fostering connections among members. All recordings are freely available on our [YouTube](https://www.youtube.com/@PANGEOS_COST) channel. https://www.youtube.com/@PANGEOS_COST.





3COST 2026 "Cultivating connections" Interdisciplinary insights from RECROP, Diversicrop, and PANGEOS- Prague, Czech Republic (4th to 6th May 2026)



Prague hosted "Cultivating Connections" - the **joint conference** of three COST Actions: **RECROP**, **DIVERSICROP**, and **PANGEOS**. The event brought together more than 100 participants from across Europe and beyond. Under the unifying question - How do we ensure that crops and agricultural systems are ready for a climate that is already changing? the three Actions presented complementary approaches from molecular biology to remote sensing. PANGEOS was strongly represented with **30 members** actively contributing across various formats: 1 Chair 1 Keynote 9 Talks 5 Flash Talks 14 Posters PANGEOS members showcased cutting-edge tools including UAV-borne hyperspectral imaging, AI-driven crop mapping, and high-throughput 3D phenotyping to monitor stress responses and key traits at scale. The conference highlighted excellent cross-pollination between the molecular focus of RECROP, the agrobiodiversity emphasis of DIVERSICROP, and PANGEOS' remote-sensing and phenotyping expertise a perfect example of what COST Actions can achieve when working together. A key message emerged from the final roundtable: the science exists. The real bottleneck is effective knowledge transfer to farmers, breeders, industry, and policymakers.



CA22136 - Pan-European Network of Green Deal Agriculture and Forestry Earth Observation Science.

GRANTS








The call for **PANGEOS** grants in **GP3** is closed.



In GP3 we approved **25** out of 29 submitted applications.



The new grant period for **GP4** starts in **November**. The call for GP4 grants will be open from **December** till the funds are used.

	Type	Funded	In progress
	STSM	3	4
	VM	1	3
	ITCG	-	1
	DCG	2	-
	YRIG	2	9



Details for the funded grants and the application procedure are available on the webpage



<https://pangeos.eu/grants/>

Upcoming Events in the GP3



PLANNED MEETINGS AND ACTIVITIES IN THE SECOND HALF OF GP3



	18 JUNE 2026	WG1+2 Meeting, Hackathon, and Paper Workshop	 Kaunas, Lithuania	
	29 JUNE 2026	WG3 Meeting on Deliverable Writing	 Abisko, Sweden	
	10 SEPTEMBER 2026	WG4 Meeting on Deliverable Writing	 Varna, Bulgaria	
	25 SEPTEMBER 2026	PANGEOS CORE Hybrid Meeting	 Barcelona, Spain	
	09 OCTOBER 2026	WG3 Stakeholder Field Day	 UK (TBA)	

 Strengthening collaboration, advancing deliverables, and connecting the PANGEOS community across Europe.



These planned activities will continue to strengthen collaboration, support deliverable development, and promote interdisciplinary knowledge exchange across the PANGEOS network.

PANGEOS Acknowledgements



PANGEOS was acknowledged in 8 papers in 2025 and already 5 papers in 2026.



 More info

 <https://pangeos.eu/publications/>



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News...

PANGEOS has a GitHub page <https://github.com/pangeos-cost> for forking repositories relevant to the aims of the action and for the distribution of training materials. PANGEOS has a GitHub page for forking repositories relevant to the aims of the action and for the distribution of training materials. Our flagship <https://github.com/pangeos-cost/uq-training> repository has the material from the first joint summer school held in Romania in 2024. Learn, contribute, feedback!

General Information on STSM and ITC GRANTS !!!

Contact Dr. Egor Prikaziuk (email: e.prikaziuk@utwente.nl)

Follow us!

Join us in advancing remote sensing solutions for a more sustainable future!



@PANGEOS_CA22136



<https://pangeos.eu/>

PANGEOS COST



The PANGEOS COST Action aims to leverage state-of-the-art remote sensing (RS) technologies to advance field phenotyping workflows, precision agriculture/forestry practices and larger-scale operational assessments for a more sustainable management of Europe's natural resources.



Chair of the Action

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