



## HIGHLIGHTS AT A GLANCE

- 08:30 – Stable isotopes in biogeosciences (BG1.1: Room 2.20); COST actions in geosciences (GI0.2: Room 0.49); GIFT workshop for teachers (EOS1: Room L4/5)
- 10:30 – Hands on or hands off? (GDB2: Room E1); Big data and machine learning in geosciences (IE4.1: Room N2); State of the cryosphere (CR1.1: Room N1); Understanding marine records and sedimentary processes (SSP3.2/ GM11.8: Room D1)
- 12:15 – EGU plenary (PCN2: Room E1)
- 13:30 – The future of Earth and planetary observations from space (US2: Room E1); Earth observation with Swarm (EMRP2.2/ST3.10: Room K1); Deciphering human-environmental interactions (GM6.3/CL1.30/SSP2.11/ SSS13.29: Room 0.96)
- All day – Medal lectures (various rooms: see right); Short courses & ECS events (various rooms: see right); Meet EGU (EGU Booth: see opposite page)

EGU Today helps you keep up with the many activities at the General Assembly by highlighting sessions and events from the programme. If you have comments, email the editor Bárbara Ferreira at [media@egu.eu](mailto:media@egu.eu). The newsletter is also available at [egu2018.eu/egu\\_today.html](http://egu2018.eu/egu_today.html) and on the EGU2018 app.

## Welcome message from the EGU Programme Chair

Welcome to the 2018 EGU General Assembly! The Programme Committee is proud to present an exciting and diverse programme built from your 18,000 abstracts covering the widest range of Earth, planetary and space sciences. This year we include over 600 poster, oral and PICO scientific sessions, more than 70 short courses, many townhall meetings, as well as the EGU2018 exhibition. I'd encourage you to participate in the union-wide Union Symposia and Great Debates on topics covering future challenges for the geosciences, the Cassini mission, ocean drilling, geoengineering, and natural versus anthropogenic threats.

This year's programme also features many exciting activities between arts and science: keep an eye out for our poet- and cartoonist-in-residence. We hope this week will offer you great opportunities for building new collaborations and enhancing existing joint research in open discussions. Please stop by the EGU Booth in Hall X2 for Meet EGU to give feedback to division presidents, editors, committee chairs and ECS representatives. I wish you an enjoyable and fruitful week!

**Susanne Buitter, EGU 2018 Programme Committee Chair**



Italy from space. Contains modified Copernicus Sentinel data (2016), processed by ESA

## The future of Earth and planetary observations from space

This Union Symposium will highlight flagship missions observing the Earth and other planetary bodies and discuss the challenges of organising future missions in an international framework. It includes contributions from ESA and NASA representatives.

**US2: 13:30–17:00 / Room E1**

## Short courses & early career scientist events

- How to navigate the EGU: tips and tricks (SC2.1: 08:30–10:00 / Room -2.91)
- Help! I'm presenting at a scientific conference! (SC2.2: 13:30–15:00 / Room -2.16)
- Debunking myths and fake news: how geoscientists can fight misinformation & false claims (SC2.12: 15:30–17:00 / Room -2.91)
- Speed-dating: research matchmaking, (SC3.19/NH10.3: 15:30–17:00 / Room -2.31)
- **ECS Networking and Careers Reception (by invitation only, PCN8: 19:00–20:30 / Room F2)**

## Stable isotopes in biogeosciences

This session, co-organised with the European Association of Geochemistry, features contributions in biogeochemistry and ecology where stable isotope techniques are used as analytical tools, with a focus on stable isotopes of light elements.

**BG1.1: Orals / 08:30–10:00 / Room 2.20  
Posters / Attendance 17:30–19:00 / Hall A**

## Medal lectures

- Julius Bartels Medal Lecture by Ilya G. Usoskin (ML19/ST: 11:00–12:00 / Room G2)
- SM Division Outstanding ECS Lecture by Martin van Driel (ML45/SM: 15:30–15:45 / Room -2.47)
- Fridtjof Nansen Medal Lecture by Rainer Feistel (ML12/OS: 16:00–17:00 / Room L3)
- Jean Baptiste Lamarck Medal Lecture by James L. Best (ML17/SSP: 16:00–17:00 / Room D1)
- Louis Agassiz Medal Lecture by Frank Pattyn (ML21/CR: 19:00–20:00 / Room K2)

## EGU plenary

This session (PCN2) is the main meeting for bringing forward new ideas to the EGU and for members to keep up-to-date with EGU activities. Join us in **Room E1** (yellow level) from **12:15** today. Free snacks and soft drinks will be served.

## Meet EGU

EGU Booth, Hall X2



- Executive Secretary (Philippe Courtial), 09:15–10:00
- Executive Editor of Non-linear Processes in Geophysics (Olivier Talagrand), 10:00–10:30 and 15:00–15:30
- Division President of Atmospheric Sciences (Annica Ekman), 13:30–14:15
- Chief Executive Editor of Solid Earth (Charlotte Krawczyk), 14:15–15:00

## EGU Photo Competition

We received 660 entries for this year's competition! You can find the finalists, and vote for the winners by Thursday evening, in Hall X2 (basement, on the left when you come from Foyer D). Winners are announced on Friday 12:15 by the EGU Booth.



Symbiosis of fire, ice and water, by Michael Grund, one of the 2017 winners

## EGU2018 mobile app

Download by scanning the QR code or go to [app.egu2018.eu](http://app.egu2018.eu) on your iPhone or Android.



## The Assembly Online



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**BLOGS**

[blogs.egu.eu](http://blogs.egu.eu)  
[geolog.egu.eu](http://geolog.egu.eu)

## Great Debate: Hands on or hands off?

In recent years there has been a growing distrust of experts in the public imagination. This gives rise to questions about the role of scientists in policy making and the political sphere. Some key questions for this debate are: Should geoscientists restrict themselves to knowledge generation and stay out of the policy world? Or should we be getting involved and making change happen?

**GBD2: 10:30–12:00 / Room E1**

## State of the cryosphere

This session presents the latest results of changes in the cryosphere from satellite, and terrestrial observations and modelling studies investigating the origin and explanation for these changes.

**CR1.1: Orals / 10:30–12:00 / 13:30–15:00 / Room N1**

**Posters / Attendance 17:30–19:00 / Hall X4**

## Big data and machine learning in geosciences

This session brings together researchers working with big data sets generated from monitoring networks, extensive observational campaigns and extremely detailed modeling efforts across various fields of geosciences.

**IE4.1: Orals / 10:30–12:00 / 13:30–17:00 / Room N2, Posters / Attendance 17:30–19:00 / Hall X3**

## GIFT workshop for teachers

The EGU Geosciences Information For Teachers (GIFT) programme offers school teachers the opportunity to upgrade their geoscience knowledge. This year's workshop focuses on 'Major events that shaped the Earth'.

**EOS1: Mon, 08:30–12:00 / 13:30–17:00; Tue, 08:30–15:00; Wed, 08:30–12:00 / Room L4/5**



Credit: MSG/ESA/  
EUMETSAT/M. Reuter

## COST actions in geosciences

COST (European Cooperation in Science and Technology) is a EU-funded programme that enables researchers to set up their interdisciplinary research networks (the 'Actions'). This session is an opportunity for different Actions to identify possible synergies and establish new collaborations.

**GIO.2: Orals / 08:30–11:45 / Room 0.49**  
**Posters / Attendance 17:30–19:00 / Hall X1**

## Earth observation with Swarm

Swarm, an European Space Agency mission, offers one of the best-ever surveys of the Earth's main and crustal magnetic field as well as the near-Earth electromagnetic environment. This session features contributions about recent scientific results from the mission.

**EMRP2.2/ST3.10: Orals / 13:30–17:00 / Room K1**  
**Posters / Attendance 17:30–19:00 / Hall X2**

## Deciphering human-environmental interactions during the late Quaternary as lessons for the Anthropocene

Geoarchaeology is a cross-disciplinary discipline at the interface between all subjects of geosciences and archaeology that integrates concepts and methods from these disciplines to investigate past human-environmental interactions. This session focuses on prospects and challenges in geoarchaeology. Sallie Burrough (Oxford University) is an invited speaker.

**GM6.3/CL1.30/SSP2.11/SSS13.29: Orals / 13:30–17:00 / Room 0.96**  
**Posters / Attendance 17:30–19:00 / Hall X1**

## Understanding marine records and sedimentary processes

This session aims to bring together a broad range of researchers including experimentalists, numerical modelers, marine geologists and field geologists, to focus on our current understanding of sedimentary processes and products of deltas, canyons, submarine fans and subaquatic sediment gravity flows.

**SSP3.2/GM11.8: Orals / 10:30–12:00 / 13:30–16:00 / Room D1**

**Posters / Attendance 17:30–19:00 / Hall X1**

## What's on tomorrow

- Past achievements and future challenges for the geosciences (US1: 09:00–12:00 / Room E1)
- Low-risk geo-engineering: are techniques available now? (GDB4: 13:30–15:00 / Room E1)
- The Early Career Scientists' Great Debate: Should early career scientists use time developing transferrable skills? (GDB3: 19:00–20:30 / Room E1)