



HIGHLIGHTS AT A GLANCE

- 10:30 – Beyond the case study: concepts in Earth sciences (GM1.1/CL5.15/SSS0.20: Room K1)
- 13:30 – Geosciences in the Anthropocene (US5: Room L6); Plan it Earth (GBD3: Room E1); Active Outer Shell of Earth (TL4: Room 0.93); Coevolution of soils, landforms and vegetation (SSS9.1/BG1.19/GM5.5/NH3.18: Room -2.20); Earthquakes: from slow to fast, from the field to the lab (EMRP1.4/SM2.5/TS1.6: Room -2.50); Extreme events and impacts (CL3.03/AS4.27: Room E2); Precipitation uncertainty and variability (HS7.2/AS1.10/CL2.20/NH1.20/NP10.4: Room B); Ten years of Lusi eruption (SSP3.16/GMPV8.10: Room M2)
- 15:30 – Active Solid Earth (TL2: Room 0.93); Outer planets, icy satellites and rings (PS3.1: Room E1)
- 17:30 – Lecture on outcome of Paris climate talks (SMP69: Room 2.31)
- All day – Medal lectures (various rooms: see right); Short courses & ECS events (various rooms: see right); Meet EGU (EGU Booth); GeoCinema (Room 0.90)

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 or questions, email Bárbara Ferreira at media@egu.eu. The newsletter is also available online at egu2016.eu/egu_today.html.

Active Planet Lectures

Today's programme features two lectures celebrating this year's theme:

- The Active Outer Shell of Earth, by Antje Boetius (Alfred Wegener Institute, Max Planck Institute for Marine Microbiology & U. Bremen, Germany) – This lecture will focus on what remains to be explored in carbon and life interactions (TL4: 13:30–15:00 / Room 0.93)
- The Active Solid Earth, by Cynthia Ebinger (University of Rochester, US) – This lecture will focus mainly on the earthquake-volcano deformation cycles that occur over human time scales. (TL2: 15:30–17:00 / Room 0.93)



Melting summer ice. Credit: Mikhail Varentsov/imagegeo.egu.eu

Geosciences in the Anthropocene

This Union Session will bring together geoscientists, historians, social scientists and journalists to explore and debate not only the geological questions, but also the political, cultural and economic implications of living in the Anthropocene and what it means for the future.

US5: 13:30–17:00 / Room L6

Plan it Earth: is there enough resource for all? Is it just a matter of planning for the future?

Discussion of natural resource depletion has been widespread for decades, yet there still seems to be little consensus on what to do about it. Some argue that we should all consume less. Others believe the only limit to resources is our imagination. How do we as the geoscientists engage with these highly differing positions? These and other issues will be discussed in today's Great Debate.

GBD3: 13:30–15:00 / Room E1

Short courses & early career scientist events

- Meet the EGU ECS Representatives (EGU6: 09:15–10:30 / Room EGU Booth)
- Finding funding: how to apply for a research grant (SC46: 12:15–13:15 / Room -2.61)
- Rhyme-your-research: Composition (SC27/EOS16: Tue, 12:15–13:15 / Room -2.85) and Performance (SC28/EOS17: Wed, 12:15–13:15 / Room -2.85)
- Meet the experts: the future of solar-terrestrial research (SC61: 13:30–15:00 / Room -2.85)
- The communicating geoscientist (SC44: 15:30–17:00 / Room -2.85)
- Supervising and tutoring students (SC11/GM13.2: 17:30–19:00 / Room -2.85)
- Complex systems methods for data analysis and modeling in geosciences (SC7/NP9.2: 17:30–20:00 / Room -2.16)
- ERC funding opportunities (TM2: 19:00–20:00 / Room -2.85)
- **EGU Medallists and ECS Reception (FAN4: 19:00–20:30 / Room F2)**

Today's medal lectures

- Arne Richter Award for Outstanding Young Scientists Lecture by Christian Moestl (ML7: 09:45–10:15 / Room E1)
- Plinius Medal Lecture by Benjamin Horton (ML27: 10:30–11:30 / Room L3)
- Christiaan Huygens Medal Lecture by Karl U. Schreiber (ML11: 11:00–12:00 / Room -2.31)
- Jean Baptiste Lamarck Medal Lecture by Lucas Lourens (ML18: 11:00–12:00 / Room L6)
- Stephan Mueller Medal Lecture by Renée Heilbronner (ML31: 11:00–12:00 / Room B)
- Vilhelm Bjerknes Medal Lecture by Maria Kanakidou (ML33: 11:00–12:00 / Room F1)
- Arthur Holmes Medal by Trond H. Torsvik (ML3: 12:15–13:15 / Room E1)
- Hans Oeschger Medal by Paul A. Mayewski (ML15: 19:00–20:00 / Room E2)
- Henry Darcy Medal Lecture by Yoram Rubin (ML16: 19:00–20:00 / Room B)
- Louis Néel Medal Lecture by Philip Meredith (ML23: 19:00–20:00 / Room E1)
- Philippe Duchaufour Medal Lecture by Heike Knicker (ML26: 19:00–20:00 / Room G1)

GeoCinema Highlights

Room GeoCinema (0.90)



Dziani, Jurassic lake (Active Planet) / Thinking like a bird – portrayal of Dutch migrations, 14:00–15:00

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Lake Superior and the Midcontinent Rift: the billion year story / VolcaArray mapping the inside of a volcano, 15:30–16:00

Meet EGU at the EGU Booth

- Editor-in-Chief of Annales Geophysicae (Christoph Jacobi), 09:15–10:30
- Early Career Scientists (ECS) Representatives (Laura Roberts, Lena Noack, Wouter Berghuijs), 09:15–10:30
- Division President of Earth Magnetism & Rock Physics (Angelo De Santis), 10:30–11:15
- Division President of Seismology (P. Martin Mai), 11:15–12:00
- Division President of Planetary & Solar System Sciences / Incoming Award Committee Chair (Özgür Karatekin), 13:30–14:15
- Deputy President of Seismology (Charlotte Krawczyk), 13:30–15:00
- Topical Events Committee Chair (Fabrizio Storti), 13:30–15:00
- Division President of Soil System Sciences (Saskia Keesstra), 14:15–15:00
- Division President of Climate: Past, Present, Future / Galileo Conferences Coordinator (Thomas Blunier), 15:00–15:30
- Division President of Geodynamics (Irina Artemieva), 16:15–17:00

The Assembly Online



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Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds

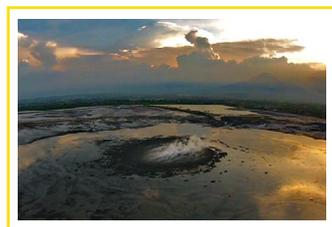
A session featuring studies addressing the organisation of vegetation and coevolving soils and landforms, including contributions on the soil erosion-vegetation relationships that rule the formation of landscape-level spatial patterns. Some presentations will focus on describing the implications of these spatial patterns of soils and vegetation for the resilience and stability of ecosystems under the pressure of climate change and/or human disturbances. Erkan Istanbuluoglu (U. Washington) is an invited speaker.

SSS9.1/BG1.19/GM5.5/NH3.18: Orals / 13:30–17:15 / Room -2.20; Posters / Attendance Thu, 17:30–19:00 / Hall X1

Earthquakes: from slow to fast, from the field to the lab

An interdisciplinary session at the frontiers between rock mechanics, seismology, volcanology, tectonics and mineralogy.

EMRP1.4/SM2.5/TS1.6: Orals / 13:30–17:00 / Room -2.50; Posters / Attendance Wed, 17:30–19:00 / Hall X2



Lusi from the sky. Credit: Giovanni Romeo/imaggeo.egu.eu

NEW: Lecture on outcome of Paris climate talks

In this talk, just added to the EGU 2016 programme, Kevin Anderson (U. Manchester) will revisit the scale of the climate challenge, arguing that whilst the science of climate change has progressed, we obstinately refuse to acknowledge the rate at which our emissions from energy need to be reduced.

SMP69: 17:30–19:00 / Room 2.31

Ten years of Lusi eruption

The spectacular Lusi eruption started in northeast Java, Indonesia, on May 29 2006, and it has been erupting mud, water, gas and clasts ever since. It has provided the unprecedented opportunity to study a piercement structure from its birth. This session will focus on lessons learned about modern and ancient piercement systems.

SSP3.16/GMPV8.10: Orals / 13:30–15:00 / Room M2; Posters / Attendance 17:30–19:00 / Hall X1

Extreme events and impacts

This session will focus on observed extreme events in the recent past, how these extremes are linked to changing global/regional climate during the 20th century, and how they may shift under enhanced radiative forcing, as expected in the 21st century.

CL3.03/AS4.27: Orals / 13:30–17:00 / Room E2; Posters / Atten. 17:30–19:00 / Hall X3

Outer planets, icy satellites and rings

A session featuring papers about the outer planets and Pluto systems, including their satellites, with special emphasis on observations, modelling, and theoretical interpretation.

PS3.1: Orals / Tue, 15:30–19:00 / Room E1; Wed, 08:30–10:15 / Room B & 10:30–12:15 / Room 0.49; Posters / Atten. Wed, 17:30–19:00 / Hall X4

Precipitation uncertainty and variability: observations, ensemble simulation and downscaling

This session gathers contributions on research, application advances, and future needs in the understanding and modelling of precipitation variability, and its sources of uncertainty. Confirmed invited speakers include the AGU Hydrology Section President Efi Foufoula-Georgiou (U. Minnesota), and Simone Fatichi (ETH Zurich).

HS7.2/AS1.10/CL2.20/NH1.20/NP10.4: Orals / 13:30–17:00 / Room B; Posters / Attendance 17:30–19:00 / Hall A

Beyond the case study: concepts in Earth sciences

This session features contributions from various fields of Earth surface research. It includes presentations on new techniques, methodological advances, (re-)evaluations of established paradigms, and more. Jane Willenbring (U. Pennsylvania) is an invited speaker.

GM1.1/CL5.15/SSS0.20: Orals / 10:30–12:00 / Room K1; Posters / Attend. 17:30–19:00 / Hall X1

What's on tomorrow

- Is global economic growth compatible with a habitable climate? (GDB4: 08:30–10:00 / Room K1)
- Chasing a comet with the ESA Rosetta mission (TL1/EOS0: 10:30–12:00 / Room B)
- EGU Award Ceremony (US0: 17:30–19:00 / Room E1)