



European Geosciences Union

Division on
Climate: Past, Present & Future



Division Meeting

Climate: Past, Present & Future

Division



Thomas Blunier and Didier Roche

Welcome



Agenda 2017

1. EGU
2. CL Organisation
3. Awarding of OSPP awards from EGU 2016
4. EGU and CL 2017 Statistics
5. Organization CL at GA 2017
6. Division medals
7. Reports from journals relevant to CL
 - Climate of the Past (Marie-France Loutre)
 - Earth System Dynamics (Axel Kleidon)
 - Geoscientific Model Development (Didier Roche)
8. Early Career Scientist in CL/ Outreach
9. Travel support
10. Union information
11. Any other business



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EGU, the European Geosciences Union, is Europe's premier geosciences union, dedicated to the pursuit of excellence in the geosciences and the planetary and space sciences for the benefit of humanity, worldwide. It was established in September 2002 as a merger of the European Geophysical Society (EGS) and the European Union of Geosciences (EUG), and has headquarters in Munich, Germany.

It is a **non-profit international union of scientists** with over 12,500 members from all over the world. Membership is open to individuals who are professionally engaged in or associated with geosciences and planetary and space sciences and related studies, including students and retired seniors.

The EGU has a current portfolio of **17 diverse scientific journals**, which use an innovative open access format, and **organises a number of topical meetings**, and **education** and **outreach activities**.

Its annual **General Assembly** is the largest and most prominent European geosciences event. In 2016 it attracted 13,650 scientists from all over the world.



•President: Jonathan Bamber



•Outgoing President: Hans Thybo



•General Secretary: Håkan Svedhem



•Treasurer: Patric Jacobs



EGU Executive Office



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EGU Election Autumn 2016

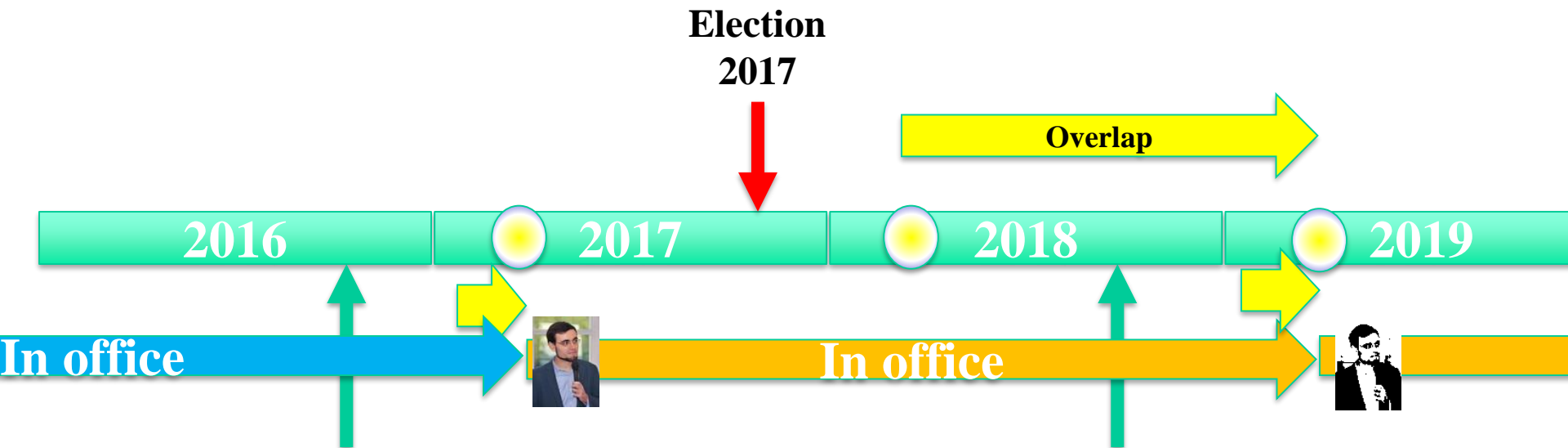
Climate: Past, Present & Future (CL)



	Votes	%
Didier Roche	199	42.1%
Olga Churakova	137	29.0%
Natalie Kehrwald	132	27.9%
Total	468	



Division president election 2017





European Geosciences Union

Division on
Climate: Past, Present & Future



CL Structure

President	Didier Roche	cl@egu.eu
Programme Group Chair	Didier Roche	cl@egu.eu
Deputy-president	Marc Luetscher	marc.luetscher@uibk.ac.at
Science Officers	Jules Hargeaves	juleswork@mac.com
	Jan-Berrend Stuut	jbstuut@nioz.nl
	Martin Wild	martin.wild@env.ethz.ch
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	Andrey Ganopolski	andrey@pik-potsdam.de
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European Geosciences Union

Division on
Climate: Past, Present & Future



CL Structure

Outreach	Célia Sapart Jennifer D. Stanford Kathryn Adamson Julie Durcan Caroline Jacques Carole Nehme	csapart@ulb.ac.be J.D.Stanford@swansea.ac.uk K.Adamson@mmu.ac.uk julie.durcan@ouce.ox.ac.uk Caroline.Jacques@ulb.ac.be cnehme@naturalsciences.be
OSPP Coordinator	NN	-



- Approval of team
- Additional team members?



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Outstanding Student Poster and PICO (OSPP) awards.

- 6 awards from EGU 2016
- Each laureate:
 - Has name, picture, poster published on EGU medals/awards homepage;
 - Appears in EGU newsletter;
 - **Receives conference fee waiver for the next EGU General Assembly.**



Ariadna Salabarnada Roset

Outstanding Student Poster and PICO (OSPP) Awards 2016

Climate: Past, Present & Future



The 2016 Outstanding Student Poster and PICO (OSPP) Awards is awarded to Ariadna Salabarnada Roset for the poster entitled:

Obliquity paced contourite cyclicity in Antarctic sediments from the Wilkes Land (Site U1356) during Late Oligocene (Salabarnada, A.; Escutia, C.; Nelson, C.H.; Roehl, U.; Jimenez-Espejo, F.; Evangelinos, D.; Ikehara, M.; McKay, R.; Lopez, A.).

Click [here](#) to download the poster/PICO file.

I am a PhD student at the department Marine Geosciences and Global Change, at the Instituto Andaluz de Ciencias de la Tierra (IACT-CSIC), Spain. My main scientific interests are related to the study of Antarctic Ice sheet and Southern Ocean palaeoceanographic evolution using sedimentological, physical properties, and geochemical data. The main focus of my research has been the study of late Oligocene warmth, the Oligocene-Miocene Transition, and the Holocene deglaciation.

The poster presented at the EGU 2016 studies the link between bottom current sedimentation during the late Oligocene and its relation with Antarctic ice sheet and paleoceanographic configuration in front of the East Antarctic Wilkes Land Margin. The study is done in cores collected by the Integrated Ocean Drilling Program (IODP) expedition 318 at Site U1356.



Benjamin Lehmann

Outstanding Student Poster and PICO (OSPP) Awards 2016

Climate: Past, Present & Future



The 2016 Outstanding Student Poster and PICO (OSPP) Awards is awarded to Benjamin Lehmann for the poster entitled:

Reconstruction of glacier fluctuations in the Western Alps since the LGM using OSL surface exposure dating
(Lehmann, B.; King, G.; Valla, P.; Herman F.).

Click [here](#) to download the poster/PICO file.



Christine McKenna

Outstanding Student Poster and PICO (OSPP) Awards 2016

Climate: Past, Present & Future



The 2016 Outstanding Student Poster and PICO (OSPP) Awards is awarded to Christine McKenna for the poster entitled:

The influence of regional Arctic sea-ice decline on stratospheric and tropospheric circulation (McKenna, C.; Bracegirdle, T.; Shuckburgh, E.; Haynes, P.).

Click [here](#) to download the poster/PICO file.

Christine McKenna is a PhD student at the British Antarctic Survey and Department of Applied Mathematics and Theoretical Physics, University of Cambridge. Her research uses climate modelling to investigate the dynamical mechanisms that may link Arctic sea-ice loss with changes in mid-latitude weather and climate. The EGU 2016 poster presented the results of some initial modelling experiments, which confirm that the mid-latitude winter response to Arctic sea-ice loss is highly sensitive to the region of sea-ice loss. However, key contrasts between the early and late winter response are also identified. Stratosphere-troposphere coupling may play a role in these differences.



Florian Ott

Outstanding Student Poster and PICO (OSPP) Awards 2016

Climate: Past, Present & Future



The 2016 Outstanding Student Poster and PICO (OSPP) Awards is awarded to Florian Ott for the poster entitled:

Refining the time span between the early Holocene Askja-S and Hässeldalen tephtras through differential dating based on varve counting from Lake Czechowskie (N Poland) (Ott, F.; Wulf, S.; Serb, J.; Słowiński, M.; Obremaska, M.; Tjallingii, R.; Błaszkiwicz, M.; Brauer, A.).

Click [here](#) to download the poster/PICO file.

Florian Ott is a PhD student at the section “Climate Dynamics and Landscape Evolution” at the GFZ German Research Centre for Geosciences in Potsdam (Germany). His research is part of ICLEA (Virtual Institute of Integrated Climate and Landscape Evolution Analyses) funded by the Helmholtz Association. In his research he focusses on the integration of chronological, sedimentological and geochemical data from the annually laminated (varved) Lake Czechowskie sediment record (N Poland) and aims on the understanding of climatic and environmental changes in the Northern Central European lowlands since the last deglaciation.

The poster shown at the EGU 2016 presents for the first time a differential dating between the early Holocene Hässeldalen and Askja-S tephtras based on varve counting to define the time span between them. It further discusses published age estimates between both tephtras and illustrates the possible sedimentological and geochemical signature of the Preboreal Oscillation (PBO), an early Holocene cold interval.



Klaus Vormoor

Outstanding Student Poster and PICO (OSPP) Awards 2016

Climate: Past, Present & Future



The 2016 Outstanding Student Poster and PICO (OSPP) Awards is awarded to Klaus Vormoor for the poster entitled:

Considering changing temporal structures in the construction of scenario-neutral runoff response surfaces (Vormoor, K.; Roessler, O.; Buerger, G.; Weingartner, R.; Bronstert, A.).

Click [here](#) to download the poster/PICO file.

Klaus is part of the Hydrology and Climatology group at the Institute of Earth- and Environmental Sciences, University of Potsdam (Germany). He recently submitted his PhD thesis which focuses on the changing role of snowmelt- and rainfall driven floods in Norway under climate change. The awarded PICO presentation results from collaboration with colleagues from the University of Bern (Switzerland) and illustrates a novel approach of creating response surfaces for climate change impact assessments that incorporates the influence of different temporal sequencing of climate data for four hydrological target variables.



Liv Heinecke

Outstanding Student Poster and PICO (OSPP) Awards 2016

Climate: Past, Present & Future



The 2016 Outstanding Student Poster and PICO (OSPP) Awards is awarded to Liv Heinecke for the poster entitled:

*Geochemical Analyses of Macrophytes (*Potamogeton* sp.) and ancient DNA from Lake Karakul, Tajikistan* (Heinecke, L.; Epp, L., S.; Mischke, S.; Reschke, M.; Stoof-Leichsenring, K.; Rajabov, I.; Herzsuh, U.).

Click [here](#) to download the poster/PICO file.

I am a PhD student at the Alfred-Wegener-Institute, Helmholtz-Centre for Polar- and Marine Research and the University of Potsdam.

In my current project, I investigate vegetation and climate changes in the eastern Pamir Mountains in arid Central Asia since the late Pleistocene. In the poster session at the EGU 2016 I presented recent outcomes of our investigations about aquatic vegetation shifts and lake internal changes in bioproductivity of Lake Karakul. A combined approach of ancient sedimentary DNA analyses and stable isotope measurements on macrophyte remains was used to gain insights into lake system changes over time and inferences about lake level changes can be made.



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EGU General Assembly 2017 facts

As of 19 April (17:01), the Assembly 2017 provides:

- 17,399 papers in programme | +7.87% (2016)
- 4,849 orals | 11,312 posters | 1,238 PICOs | ratio 28 / 65 / 7
- 11,331 registrations in advance | +3.55% (2016)
- 649 unique scientific sessions | 88 short courses | 322 side events*
- 383 out of 649 scientific sessions are co-organized (59%)
- The 383 co-organized include 12 IE sessions with 261 presentations

- Original sessions: 1,432; 1,059 still active, 373 withdrawn
- Withdrawn: 356 scientific sessions and 17 side events

*Side events include: SSE (w/o US), OEM (w/o EOS), STM (w/o SC), FAN, AM



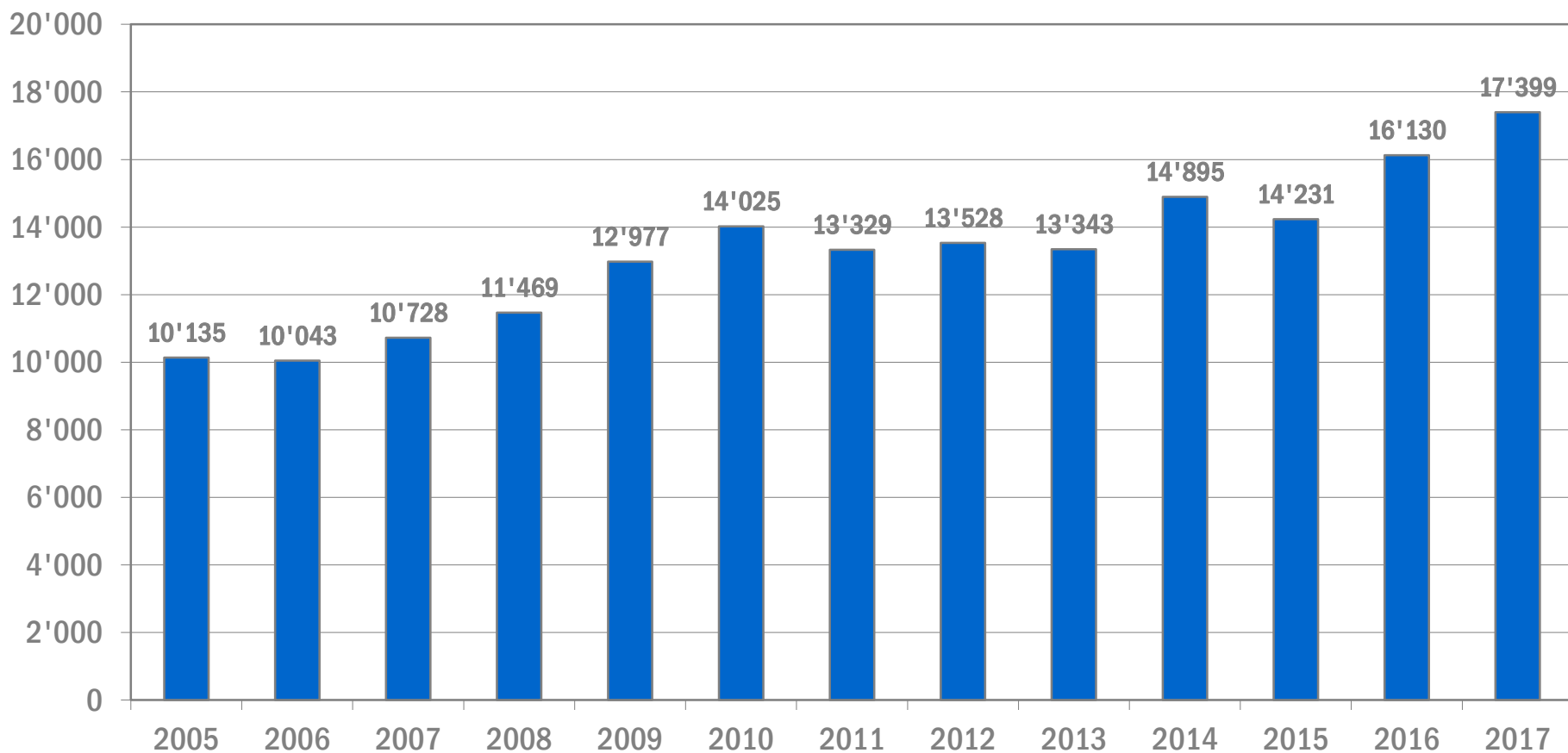
European Geosciences Union General Assembly 2017

Vienna | Austria | 23–28 April 2017

EGU.eu

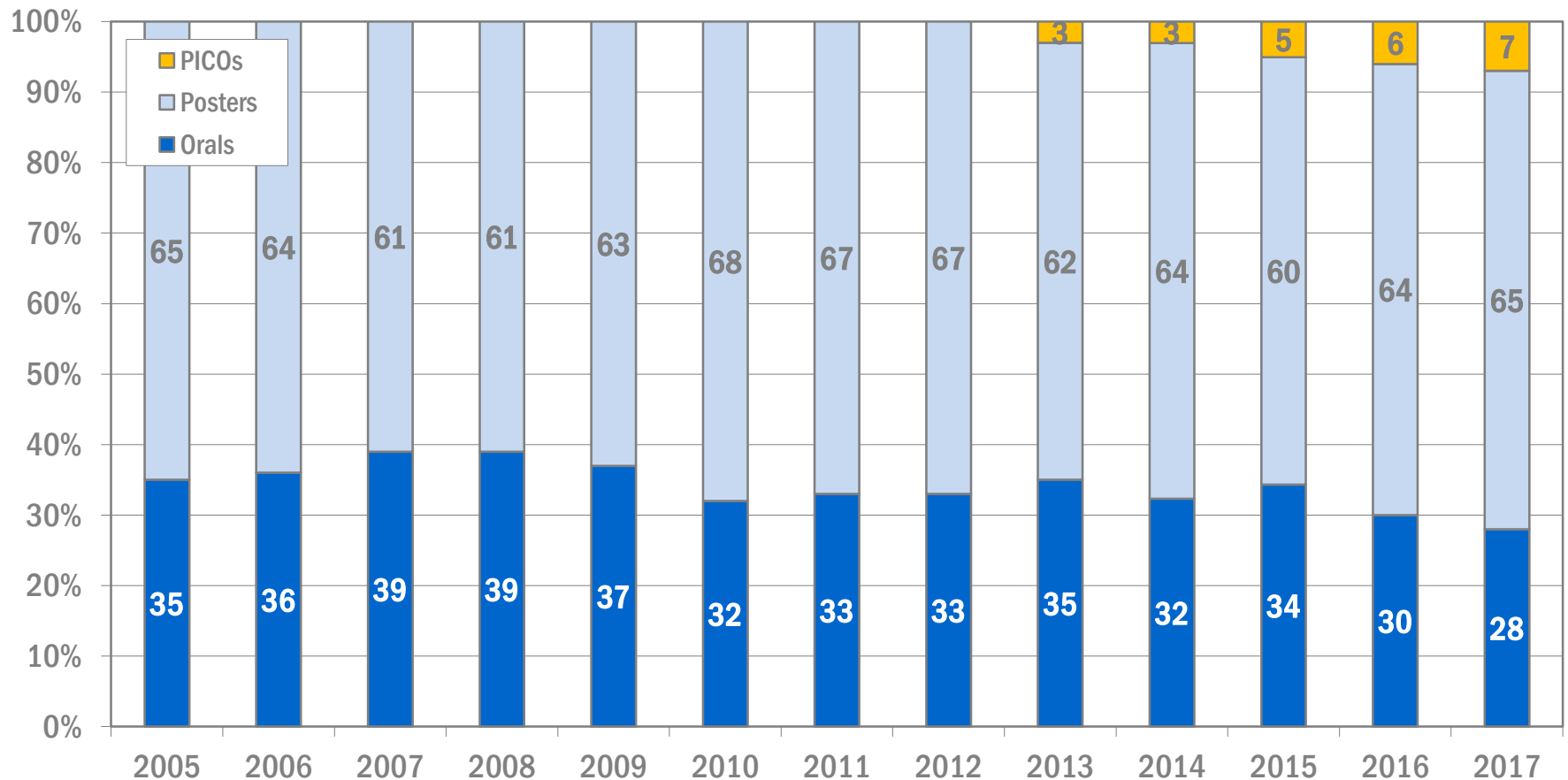


Papers in programme 2005–2017





Presentation ratio 2005–2017





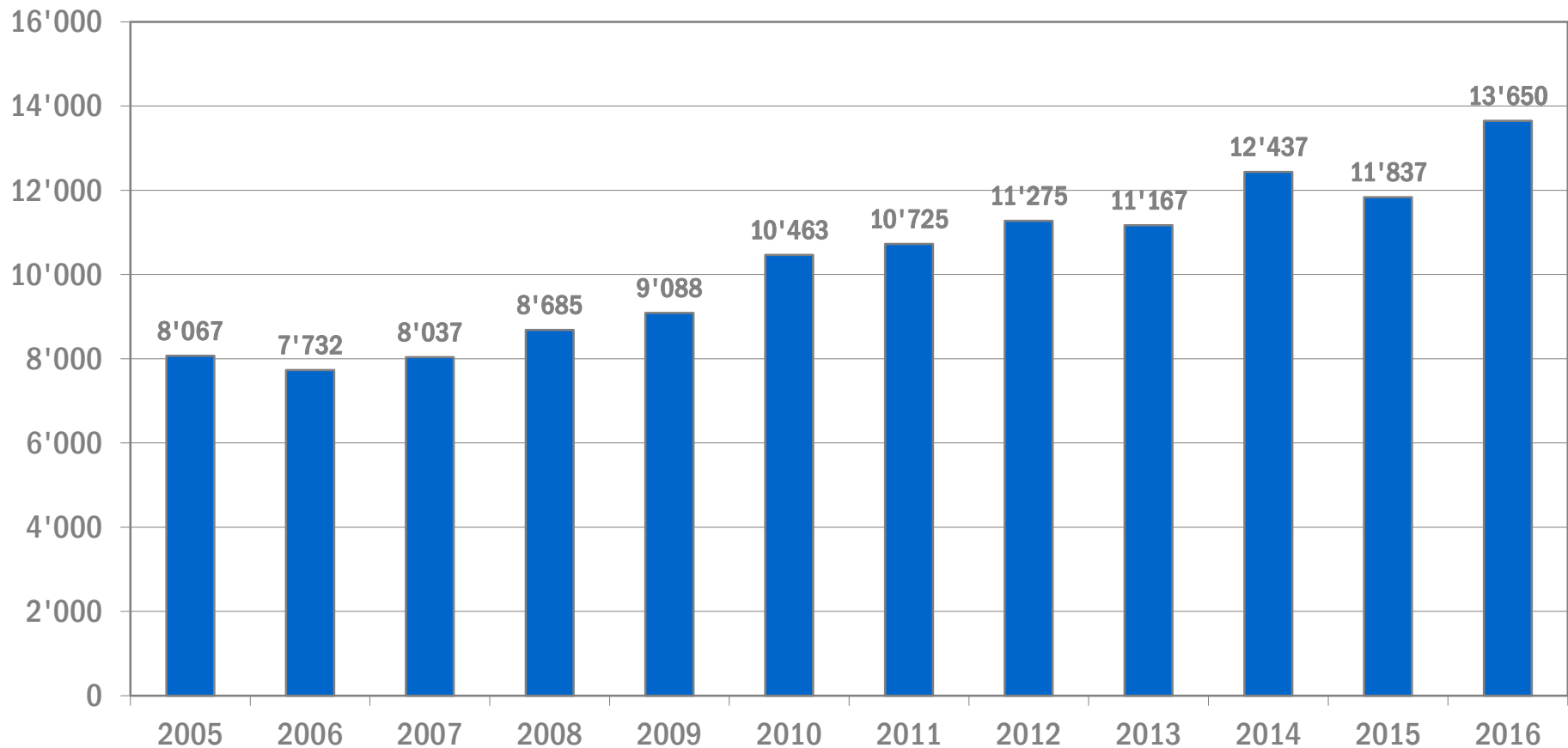
European Geosciences Union General Assembly 2017

Vienna | Austria | 23–28 April 2017

EGU.eu



Participants at EGU General Assemblies 2005–2016





Some CL 2017 statistics

Programme group statistics

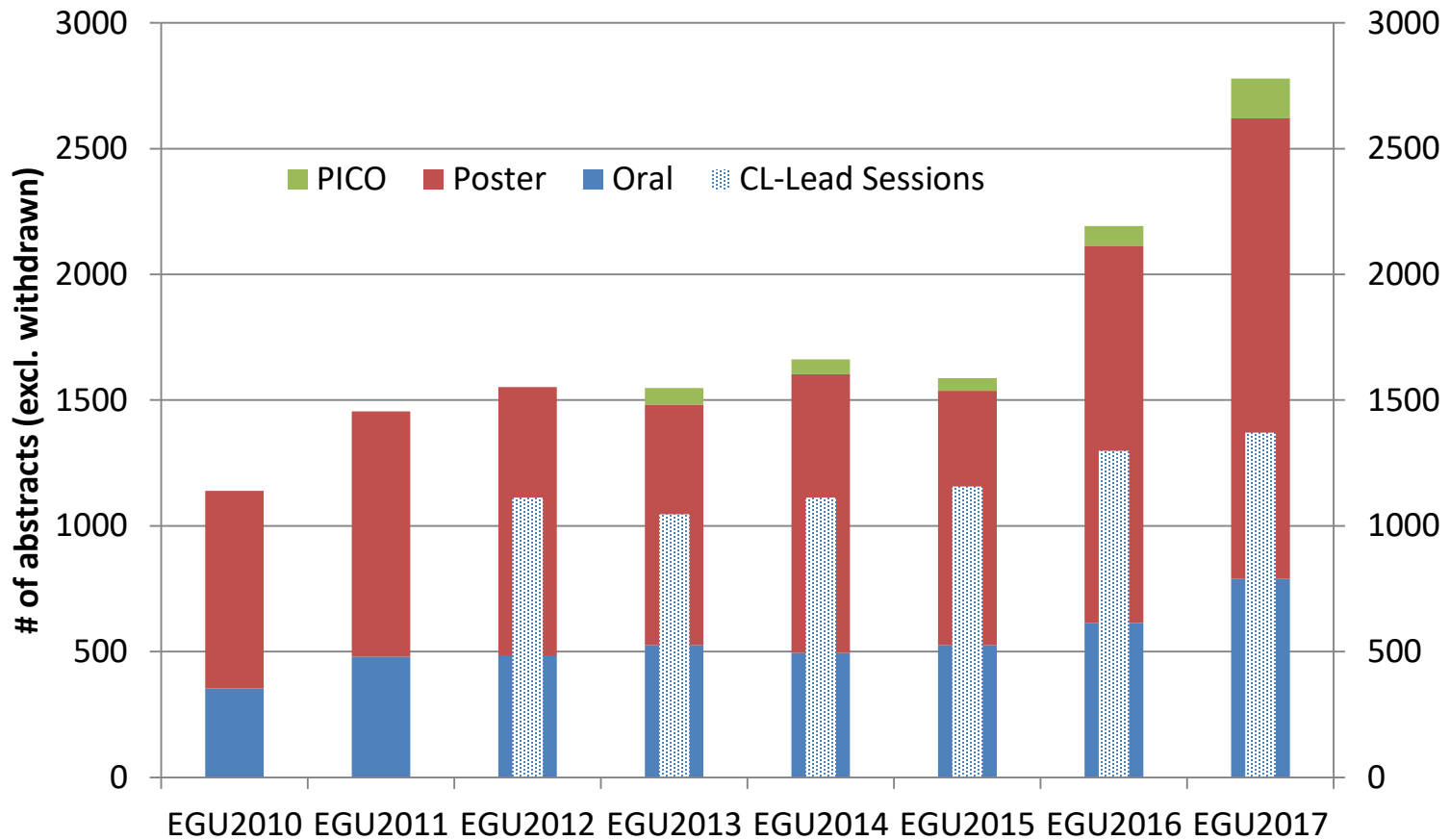
Active scheduled	2,776
Status	Total scheduled: 2,822 Withdrawn thereof: 46
Granted supports	None: 2,757 (99%) ESTS: 1 (0%) ECSTS: 18 (1%)
Presentations	Orals: 787 (28%) Posters: 1,831 (66%) PICOs: 158 (6%)
Author identification specifics	ECS: 1,349 (49%)

Meeting statistics

Active scheduled	17,490
Status	Total scheduled: 18,051 Withdrawn thereof: 561
Granted supports	None: 17,220 (98%) ESTS: 25 (0%) ECSTS: 245 (1%)
Presentations	Orals: 4,864 (28%) PICOs: 1,247 (7%) Posters: 11,379 (65%)
Author identification specifics	ECS: 8,965 (51%)



CL long term statistics (incl. co-organized)





2017

Programme Group	Lead sessions			Co-org. sessions		Total		
	#Abs.	%	#Ses.	#Abs.	#Ses.	#Abs.	#Ses.	
HS	Hydrological Sciences	2,319	0.13	85	1,399	68	3,718	153
SSS	Soil System Sciences	1,889	0.11	79	1,259	62	3,148	141
AS	Atmospheric Sciences	1,728	0.1	52	1,442	57	3,170	109
CL	Climate: Past, Present, Future	1,343	0.08	43	1,429	60	2,772	103
NH	Natural Hazards	1,141	0.07	48	1,404	60	2,545	108
TS	Tectonics & Structural Geology	933	0.05	32	602	26	1535	58
BG	Biogeosciences	789	0.05	29	1,102	48	1,891	77
GM	Geomorphology	738	0.04	30	839	38	1,577	68



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Organization of the scientific program in 6 subsections:

CL0 - General

CL1 - Past climates

CL2 - Present climate

CL3 - Future climate

CL4 - Past-Present-Future climates

CL5 - Tools for climate studies

CL6 - Short Courses (of interest to CL)



European Geosciences Union

Division on
Climate: Past, Present & Future



	Room	0.14	E1	E2	0.94	0.96	F2	5a	3
	PAX	120	494	494	110	105	494	150	59
								PICO spot (20)	PICO spot (10)
Monday	Block1	CL3.07	CL1.15				CL2.09		
	Block2	CL0.00	CL1.15				CL2.09		
	Block3	CL3.04	CL1.15				CL1.11		
	Block4	CL3.04					CL1.11		
Tuesday	Block1	CL4.08	CL5.10				CL1.13		
	Block2	CL4.18	CL5.10		CL3.08		CL1.13		
	Block3	CL1.28	CL5.10		CL2.05		CL1.03	CL4.01	
	Block4	CL1.28			CL5.11		CL1.03	CL4.01	
Wednesday	Block1	CL2.02	CL2.04			CL3.03	CL4.04		
	Block2	CL2.02	CL2.04			CL2.01	CL4.04		
	Block3	CL1.01		CL4.07		CL1.25	CL4.04	CL5.01	
	Block4	CL1.02		CL4.07		CL1.23	CL5.03		CL5.13
Thursday	Block1	CL5.08					CL4.10		
	Block2	CL5.08					CL4.10	CL4.03	
	Block3	CL5.05		CL1.12			CL4.15		
	Block4	CL5.05		CL1.12			CL4.15		
Friday	Block1	CL4.11			CL1.21		CL1.31		
	Block2	CL4.11			CL1.19		CL1.31	CL5.04	
	Block3	CL3.01			CL1.18		CL4.17		
	Block4	CL3.01			CL1.18		CL4.17		



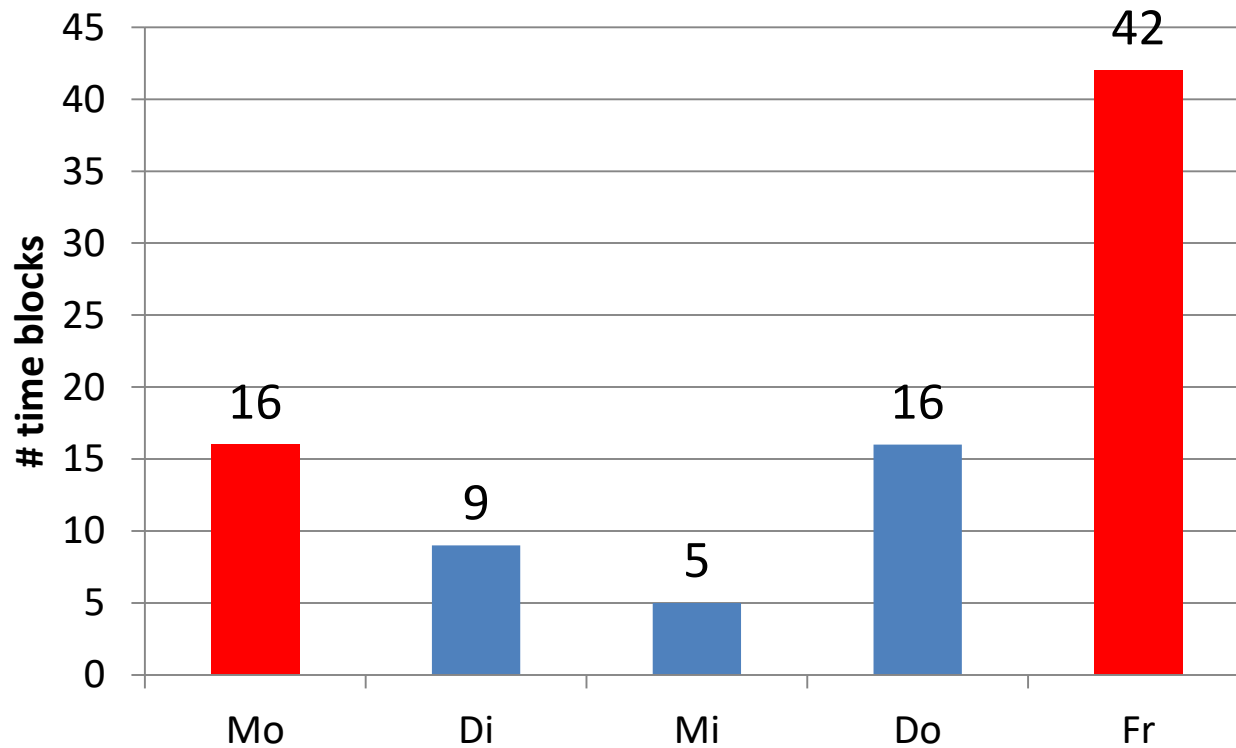
CL scheduling (CL lead, excluding co-organized)

WISHES	2013	2014	2015	2016	2017
Oral Preference	634	621	693	769	752
Poster Preference	447	473	501	578	619
Total	1081	1094	1194	1347	1371
(PICOs counted as posters)					
Received					
Oral Blocks	63	60	66	63	63
Orals	372	354	393	374	374
Success rate for oral	59%	57%	57%	49%	50%

Note: Numbers differ slightly from data presented before due to the moment they were collected in the scheduling process

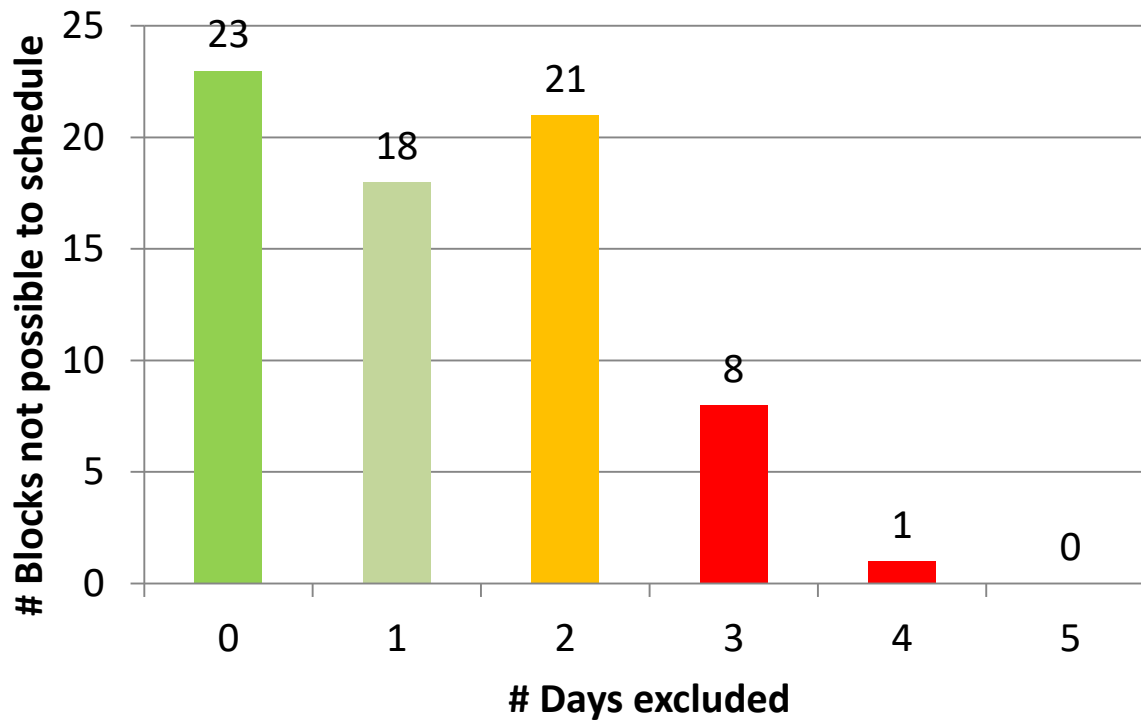


of time blocks excluded by conveners (out of 63)





Blocks excluded





Traditional poster sessions in block 5 every day



CL4.01/AS3.4/GM11.2 Aeolian dust: Initiator, Player, and Recorder of Environmental Change

Tue, 25 Apr, 13:30-15:00 / 15:30-17:00 / PICO spot 5a

CL5.01 Climate Services - Underpinning Science

Wed, 26 Apr, 13:30-15:00 / PICO spot A

CL5.13 Towards CMIP6 internationally coordinated climate modeling experiments: the role and use of modeling and observation research infrastructures

Wed, 26 Apr, 15:30-17:00 / PICO spot 3

CL4.03 Climate change and its impacts in the Baltic and North Sea regions: Observations and model projections

Thu, 27 Apr, 10:30-12:00 / PICO spot 5a

CL5.04 Synoptic climatology - methods and applications

Fri, 28 Apr, 10:30-12:00 / PICO spot 5a



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Medals at Division level:

- **The Division Outstanding Early Career Scientists Awards**
- **The Division medals for mid-career scientists.**



Francesco Muschitiello

Division Outstanding Early Career Scientists Award 2017

Climate: Past, Present & Future



The 2017 Division Outstanding Early Career Scientists Award is awarded to Francesco Muschitiello for his contributions to understanding mechanisms of abrupt climatic change in combination with observations across the North Atlantic region.

Francesco Muschitiello has challenged and contributed to important debates about the mechanisms of abrupt climatic change, as well as observations of the timing and nature of environmental responses across the North Atlantic region. Through the study of terrestrial sites in southern Sweden and marine records in the Norwegian seas during his PhD, Muschitiello's research has evaluated the role of Scandinavian Ice Sheet melt as a driver of hydroclimatic shifts across the northern north Atlantic at the onset of the cold climate conditions of the Younger Dryas (~12,800 years ago). In his research Muschitiello has applied traditional palaeoecological and novel palaeoclimatic methods and used climate model simulations to explore the connectivity between earth system processes during the last deglaciation. He has taken a rigorous approach to building chronologies for his records, which utilise radiocarbon dating, tephrochronology and varve counting. In doing so Muschitiello has precisely dated the first drainage of the Baltic Ice Lake, which he shows occurred synchronous to the start of Greenland Stadial 1, indicating a link between freshwater forcing in the northeast north Atlantic and abrupt changes in atmosphere-ocean circulation. Muschitiello has published extensively on a multitude of topics, applying a range of methodologies demonstrating a breadth of expertise. His intellectual curiosity, creativity and self-motivation make him a worthy recipient of the Climate Division's Outstanding Early Career Scientist Award.



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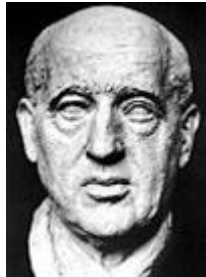
CL Division Outstanding ECS Award Lecture by Francesco Muschitiello

**The role of North Atlantic Ocean circulation and
biological sequestration on atmospheric CO₂ uptake
during the last deglaciation**

Tue, 25 Apr, 14:30–14:45 / Room 0.14



Milutin Milankovic Medal



This medal has been established by the Division on Climate: Past, Present & Future in recognition of the scientific and editorial achievements of Milutin Milankovic. This medal is reserved for scientists for their outstanding research in long term climatic changes and modeling.



Hans Oeschger Medal



This medal has been established by the Division on Climate: Past, Present & Future in recognition of the scientific achievement of Hans Oeschger. It is reserved for scientists for their outstanding achievements in ice research and/or short term climatic changes (past, present, future).





Hans Oeschger Medal



Denis-Didier Rousseau

Millennial oscillations in Greenland dust and Eurasian Aeolian records - a paleosol-loess perspective

Wed, 26 Apr, 10:30-11:30 / Room F2





Milutin Milankovic Medal



Axel Timmermann

Astronomical Theory of Early Human Migration
Thu, 27 Apr, 19:00-20:00 / Room F2





Proposal and Selection of Candidates

Who can nominate?

YOU (EGU members)

Whom can you nominate?

Anybody except active EGU officials and yourself

When?

NOW (deadline June 15)

How?

Online (www.egu.eu/user-area/nominations/form/)

What happens if you don't?

The EGU reserve the right to not confer the medal when there is only one nomination.



A nomination package for the Division and Union medals consist of the following:

- Nomination letter (1 page). ...
- Curriculum Vitae (2 pages). ...
- Selected bibliography (2 pages). ...
- Supporting letters. Between 3 and 5 letters of support (maximum 1 page each) ...

A nomination package for the Outstanding Early Career Scientists Awards consist of the following:

- Nomination letter (1/2 page) ...
- Curriculum Vitae (1 page) ...
- Selected bibliography (1/2 page)...



Selection of Candidates

Candidates for the Union and Division medals are evaluated by the respective Union and Division medal committees before final approval by the Council.

Candidates for the Outstanding Early Career Scientist Award are first evaluated by the relevant Division Officers who forward the best candidate to the Chair of the Union Award Committee. 4 candidates are then selected by the Council and awarded at the Union level (Union Award). The remaining best candidates are awarded by the relevant Division (Division Award).



Hans Oeschger medal committee for 2018

Name	Year	Remark
Thomas Stocker	2	Chair
Denis-Didier Rousseau	1	New
Paul A. Mayewski	2	
Sheri Fritz	4	

Milutin Milankovic medal committee for 2018

Name	Year	Remark
Andrey Ganopolski	4	Chair
Axel Timmermann	1	New
James C. Zachos	2	
Paul Valdes	3	
Maureen Raymo	4	

Ex-officio CL and Award committee presidents

Rotated off the medal committees after four years following best practice:
Myriam Bar-Matthews, Didier Paillard



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Climate of the Past

*Division Meeting
Climate: Past, Present & Future
Vienna, April 2017*



OPEN
ACCESS
MODERATE
PROCESSING CHARGES



INTERACTIVE PUBLIC
PEER REVIEW



ARTICLE LEVEL
METRICS

The editorial board

Co-editors-in-chief

- **Carlo Barbante** will step down as co- editor-in-chief
- **Marie-France Loutre** will retire as ‘chief of the chiefs’
- **Nerilie Abram** will take over as ‘chief of the chiefs’
- **Denis-Didier Rousseau**
- **Eric Wolff**

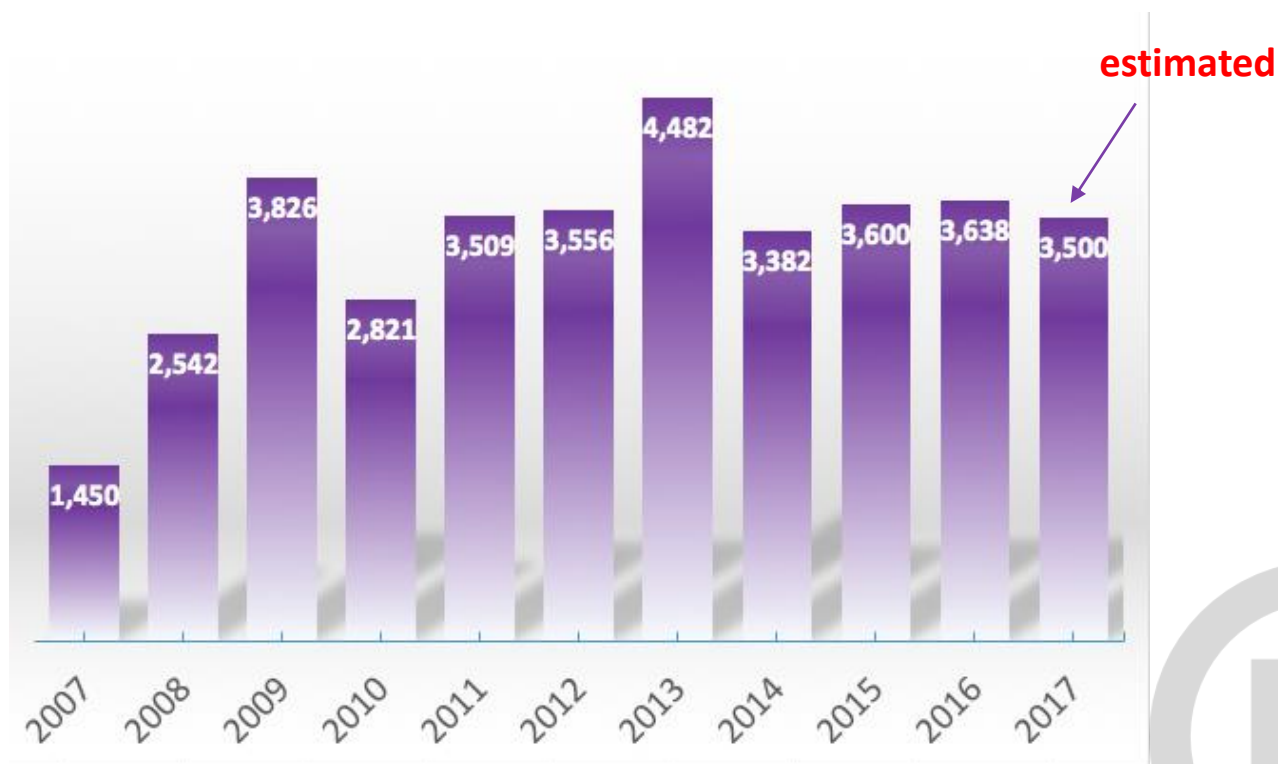
**32 regular editors (incl. the co-editors-in-chief editors)
plus guest editors for special issues**





Impact Factor Evolution

Launch of CP in 2005



Impact factor steady above 3





Climate of the Past

An interactive open-access journal of the European Geosciences Union



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Impact Factor 2016

Journal metrics



IF 3.382



IF 5-year
3.684



SNIP 0.979



IPP 3.298

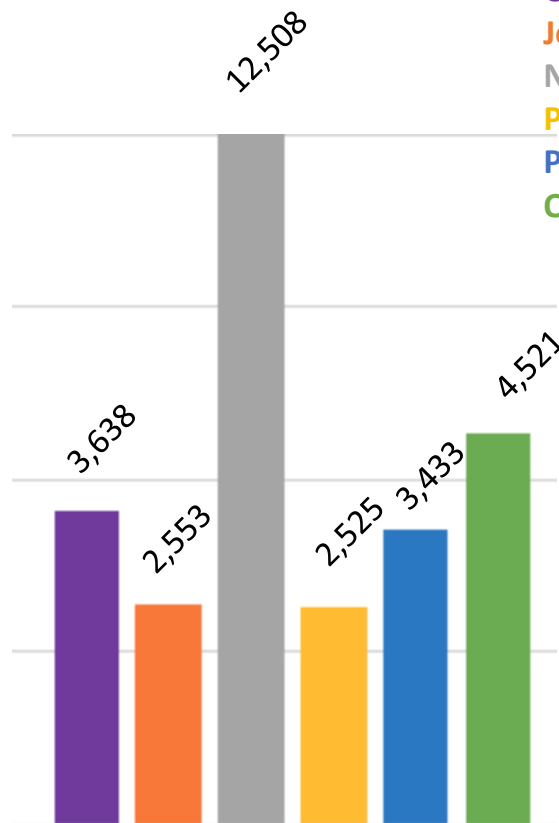


SJR 2.047



h5-index 35

▶ Definitions



Climate of the Past

Journal of Quaternary Science

Nature Geosciences

Palaeogeography, Palaeoclimatology, Palaeoecology

Paleoceanography

Quaternary Science Reviews





Statistics of publication

CP Discussions

	2016		2015	
	Papers	Pages	Papers	Pages
Total	127 (-15.3%)	3821*	150	5715
Regular papers	92	2710	115	4296
Special issue papers	35	1111	35	1419

CP

	2016		2015	
	Papers	Pages	Papers	Pages
Total	132 (+18.9%)	2232 (+26.5%)	111	1764
Regular papers	97	1582	92	1433
Special issue papers	35	650	19	331



2016

Special issues

- ▶ **Climate of the past 2000 years: global and regional syntheses, 2016**
Eds. H. V. McGregor, P. Francus, N. Abram, M. N. Evans, H. Goosse, L. von Gunten, D. Kaufman, H. Linderholm, M. F. Loutre, R. Neukom, and C. Turney
- ▶ **Climate-carbon-cryosphere interactions in the East Siberian Arctic Ocean: past, present and future (TC/BG/CP/OS inter-journal SI), 2016**
Eds. M. Jakobsson, C. Barbante, and T. Cronin
- ▶ **International Partnerships in Ice Core Sciences (IPICS) Second Open Science Conference (CP/TC inter-journal SI), 2016**
Eds. E. Wolff, M. R. van den Broeke, B. Stenni, E. Brook, K. Goto-Azuma, S. Hou, T. van Ommen, C. Ritz, and C. Barbante
- ▶ **Paleoclimate Modelling Intercomparison Project phase 4 (PMIP4) (CP/GMD inter-journal SI), 2016**
Eds. M. Kageyama, P. Braconnot, S. Harrison, J.H. Jungclaus, B.L. Otto-Bliesner, and M.F. Loutre
- ▶ **PlioMIP Phase 2: experimental design, implementation and scientific results, 2016**
Eds. A. M. Haywood, A. Dolan, and W.-L. Chan
- ▶ **Southern perspectives on climate and the environment from the Last Glacial Maximum through the Holocene: the Southern Hemisphere Assessment of PalaeoEnvironments (SHAPE) project, 2016**
Eds. A. Lorrey, S. J. Phipps, M. Rojas, H. Bostock, and N. Abram

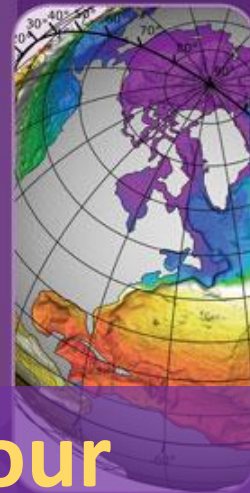
2017

- ▶ **10th International Carbon Dioxide Conference 2017 and of the 19th WMO/IAEA Meeting on Carbon Dioxide, other Greenhouse Gases and Related Measurement Techniques (GGMT-2017) (ACP/AMT/BG/CP/ESD inter-journal SI)**
Eds. F. Joos, H Fischer (not complete)



Climate of the Past

An interactive open-access journal of the European Geosciences Union



Thank you for your
attention



Earth System Dynamics

Earth System Dynamics

An international scientific journal dedicated to studies that take an interdisciplinary perspective of the functioning of the whole Earth system and global change

ISI Impact Factor (2016): 4.59

Chief editors:

Axel Kleidon

Somnath Baidya Roy

Anders Levermann (new)

Valerio Lucarini

Ning Zeng

Editorial board:

47 editors, international

Twitter: @EGU_ESD

Web: www.earth-system-dynamics.net


Examples of Highlighted Papers



Accounting for the climate–carbon feedback in emission metrics [Summary](#)

10 Apr 2017

Thomas Gasser, Glen P. Peters, Jan S. Fuglestvedt, William J. Collins, Drew T. Shindell, and Philippe Ciais



Drought and flood in the Anthropocene: feedback mechanisms in reservoir operation [Summary](#)

27 Mar 2017

Giuliano Di Baldassarre, Fabian Martinez, Zahra Kalantari, and Alberto Viglione



Towards improved and more routine Earth system model evaluation in CMIP [Summary](#)

01 Nov 2016

Veronika Eyring, Peter J. Gleckler, Christoph Heinze, Ronald J. Stouffer, Karl E. Taylor, V. Balaji, Eric Guilyardi, Sylvie Joussaume, Stephan Kindermann, Bryan N. Lawrence, Gerald A. Meehl, Mattia Righi, and Dean N. Williams



Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era [Summary](#)

30 Aug 2016

A. Gonsamo, J. M. Chen, D. T. Shindell, and G. P. Asner

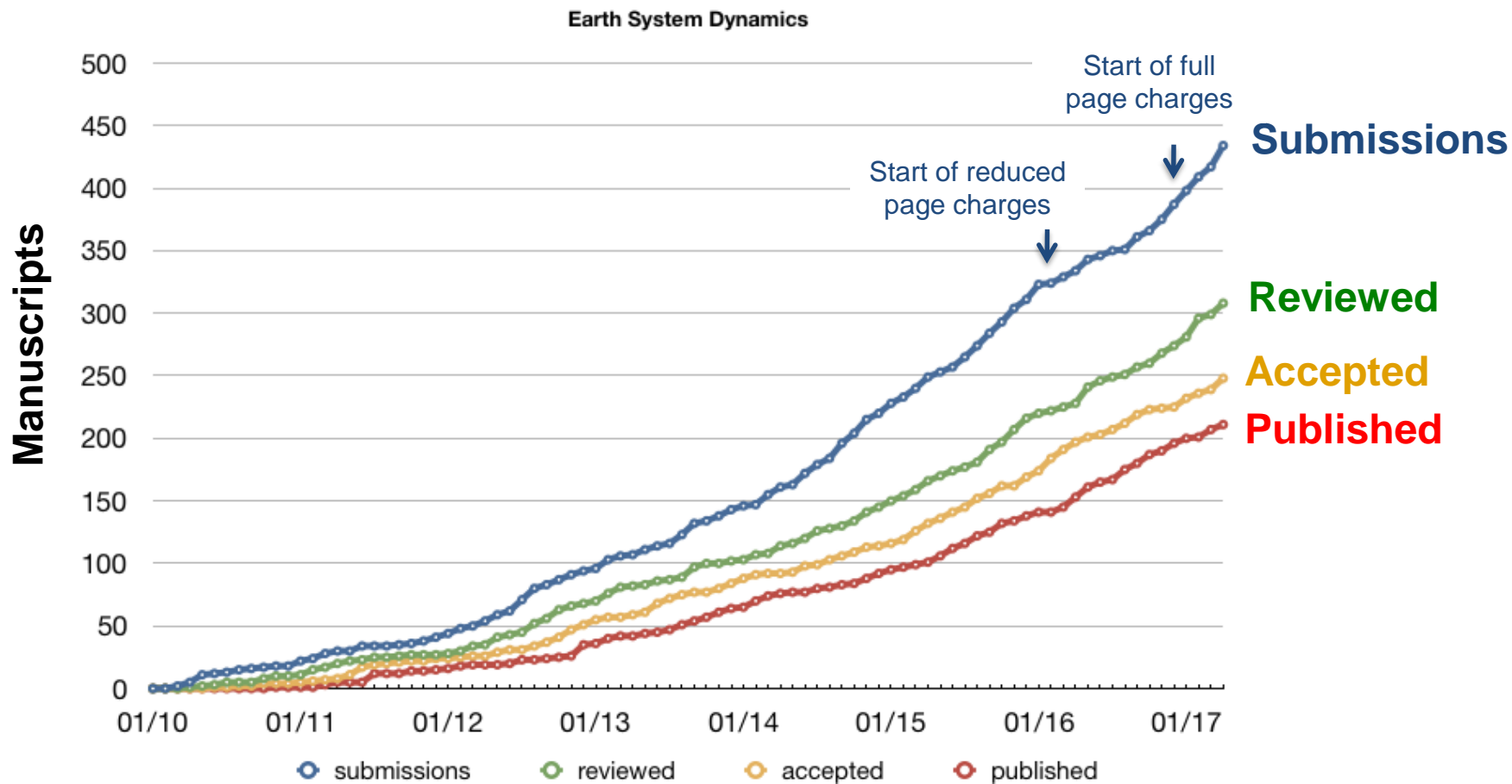


Why CO₂ cools the middle atmosphere—a consolidating model perspective [Summary](#)

29 Aug 2016

H. F. Goessling and S. Bathiany

Submissions since 2010





More Information

Chief editor contacts:

- Axel Kleidon (akleidon@bgc-jena.mpg.de)
- Anders Levermann (anders.levermann@pik-potsdam.de)
- Valerio Lucarini (v.lucarini@reading.ac.uk)
- Somnath Baidya Roy (drsbr@iitd.ac.in)
- Ning Zeng (zeng@umd.edu)

ask us about submissions, special issues, involvement, suggestions, questions, ...



“A journal dedicated to the description, development, and evaluation of numerical models of the Earth system and its components”

2016:

- impact factor = 3.5
- papers submitted = 317 (15% growth)
- maximum time before editor assignment reduced (now about 3 weeks)
- CMIP6 special issue, experiment description papers
 - 29 papers so far.
- acceptance rate ~ 82%
- Increase your happiness and save your time by reading the peer review criteria on the website *before* submitting!
 - Papers with non-GMD titles are slow to find editors
 - GMD has *14% rejection rate at initial editor's review (which can be a month after submission)!*



Geoscientific Model Development

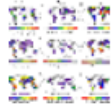
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Manuscript types :

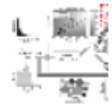
Model description papers / Development and technical papers
Methods for assessment of models / Model experiment description papers
Model evaluation papers



Representing nighttime and minimum conductance in CLM4.5: global hydrology and carbon sensitivity analysis using observational constraints [Summary](#)

23 Jan 2017

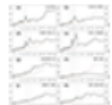
Danica L. Lombardozzi, Melanie J. B. Zeppel, Rosie A. Fisher, and Ahmed Tawfik



Linking hydraulic traits to tropical forest function in a size-structured and trait-driven model (TFS v.1-Hydro) [Summary](#)

24 Nov 2016

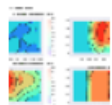
Bradley O. Christoffersen, Manuel Gloor, Sophie Fauset, Nikolaos M. Fyllas, David R. Galbraith, Timothy R. Baker, Bart Kruijt, Lucy Rowland, Rosie A. Fisher, Oliver J. Binks, Sanna Sevanto, Chonggang Xu, Steven Jansen, Brendan Choat, Maurizio Mencuccini, Nate G. McDowell, and Patrick Meir



Multi-annual modes in the 20th century temperature variability in reanalyses and CMIP5 models [Summary](#)

17 Nov 2016

Heikki Järvinen, Teija Seitola, Johan Silén, and Jouni Räisänen



Accounting for model error in air quality forecasts: an application of 4D-EnVar to the assimilation of atmospheric composition using QG-Chem 1.0 [Summary](#)

08 Nov 2016

Emanuele Emili, Selime Gürol, and Daniel Cariolle



GMMIP (v1.0) contribution to CMIP6: Global Monsoons Model Inter-comparison Project [Summary](#)

10 Oct 2016

Tianjun Zhou, Andrew G. Turner, James L. Kinter, Bin Wang, Yun Qian, Xiaolong Chen, Bo Wu, Bin Wang, Bo Liu, Liwei Zou, and Bian He

•Chief Executive Editor : Julia Hargreaves jules@blueskiesresearch.org.uk



Agenda 2017

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2. CL Organisation
3. Awarding of OSPP awards from EGU 2016
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7. Reports from journals relevant to CL
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Early career scientists in EGU

Julie Durcan (Outgoing ECS-CL representative)



- An Early Career Scientists (ECS) is an undergraduate or postgraduate (Masters/PhD) student or a scientist who has received his or her highest degree (BSc, MSc, or PhD) within the past seven years.
- Approximately 1/3 of EGU members are early career scientists – it's important that your voice is heard.
- The ECS website provides information for early career researchers at <http://www.egu.eu/ecs/> including careers, financial support, events & resources.
- There are ECS awards at division & assembly level.
 - Check the nomination guidelines at <http://www.egu.eu/awards-medals/checklist-for-submitting-nominations/> - you could be the next recipient.



Your ECS representative

- ECS rep provides a link between the ECS community & the EGU.
- They maintain & promote a supportive environment for early career scientists within the union.
- ... would you like to be involved?
- Contact the current new ECS rep, **Carole Nehme**, with questions, comments, feedback etc.
 - carole.nehme@univ-rouen.fr





European Geosciences Union

Division on
Climate: Past, Present & Future



What's going on this year?

Lots....



What's going on this year?

Just a taster...

- Introduction to isotope science in speleothem research , Wed 26 Apr, 17.30 – 19.00, Room -2.31
- Should early career scientists be judged by their publication record? A group debate, Wed 26 Apr, 19.00 – 20.00, Room G1
- Communicating climate change – blogging as a group, Wed 26 Apr, 13.30 – 15.00, Room -2.85
- How to write a successful ECR grant proposal, Tue 25 Apr 13.30 – 15.00, Room -2.91



What's going on this year?

- There are lots of other ECS courses and skills sessions organised. See: <http://meetingorganizer.copernicus.org/EGU2017/sessions-of-special-interest/ECS>
- Come and find out more about the ECS community by coming to the EGU Early Careers Scientist's Forum on Wed 26 Apr, 12:15–13:15, Room L2
- Meet the EGU CL division president, Thu 27 Apr 13.30 – 14.15, EGU Booth
- ECS Lounge, *Red level*
 - A relaxed, informal space to meet other early career scientists, enjoy a coffee, and recharge your laptop (and yourself).
 - You'll find lots of information about cultural and social activities in Vienna and there's also the opportunity to feedback via the suggestions board.



Outreach

Outreach reps:

Célia Sapart, Jenny Stanford, Kathryn Adamson, Julie Durcan, Caroline Jacques and Carole Nehme

We coordinate blog posts, Twitter feeds

- We welcome all contributions from across the division
- Blog posts on: climate 'basics', field and lab work, research findings
- Short (100-200 words) and longer articles, videos, photographs, cartoons...





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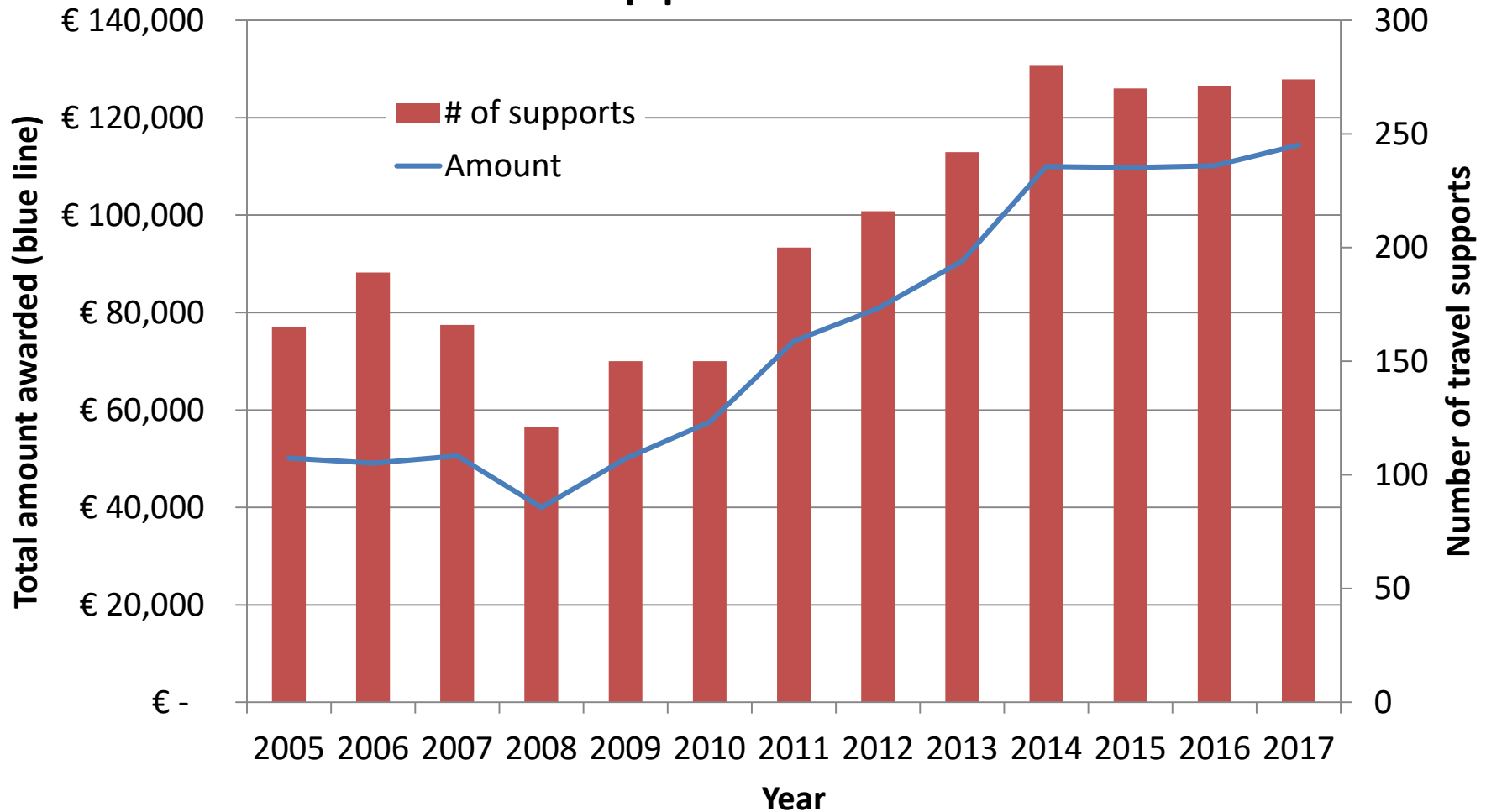
Rules for EGU2017

Scheme	Target audience	Approximate Funding allocation	Funding
Early Career Scientist's Travel Support (ECSTS)	Early Career Scientists (world wide with earmarked funds for European economically disadvantaged (EED) countries)	EED: 30-35%	<ul style="list-style-type: none"> • Registration • APC • Maximum of €300 travel expenses
	Other countries: 50-60%		
Established Scientist's Travel Support (ESTS)	Established scientists (low and lower middle income countries)	10-20% *	

- 1) * this number can be significantly lower. The success rate for ESTS should not be higher than for ECSTS
- 2) Support is maximally granted twice for each ECSTS and for ESTS.



Travel support 2005-2017





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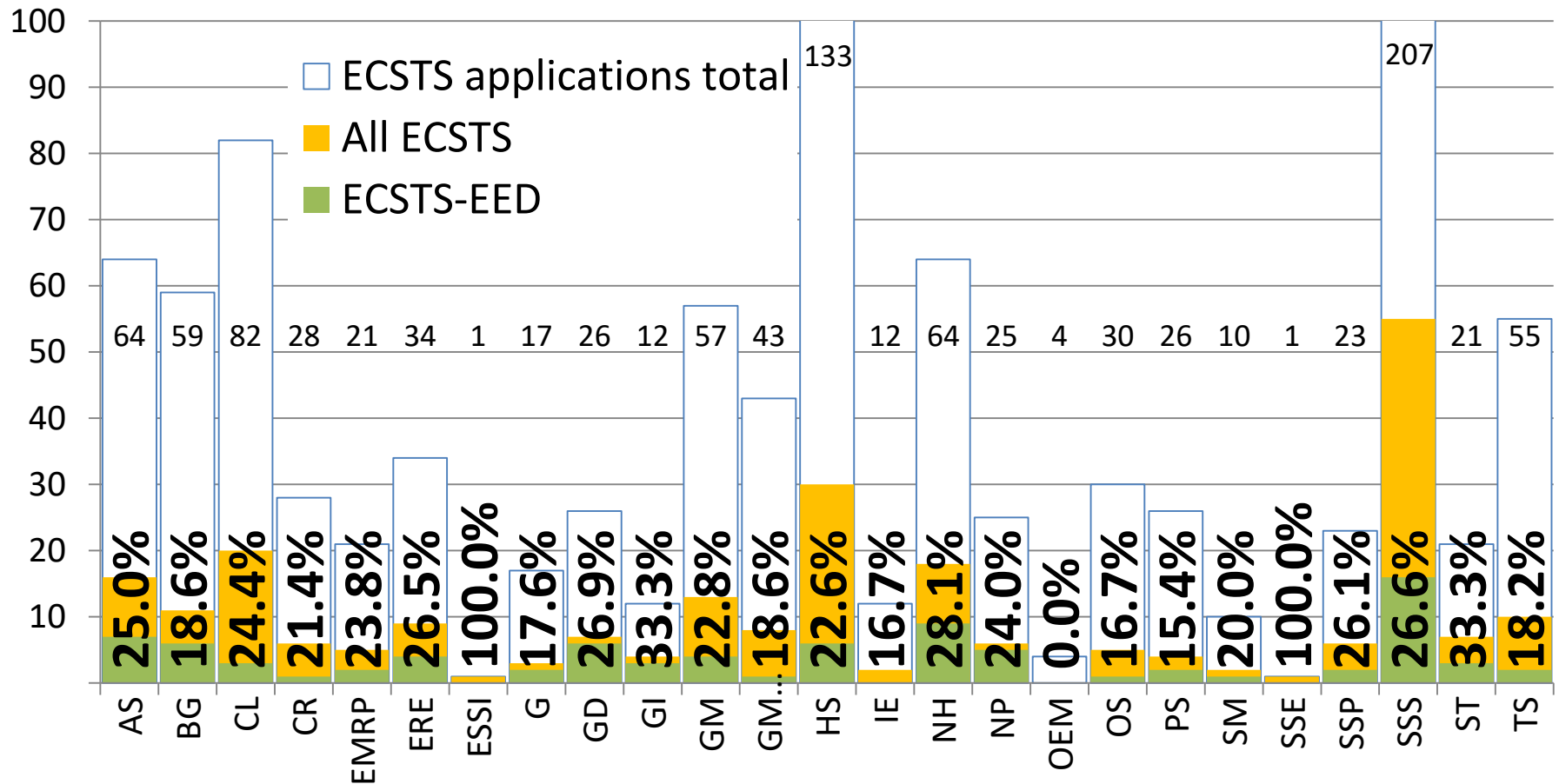


Category	Submitted applications	Eligible applications	Successful applications	Success Rate (of eligible applications)	%-age of selected applications
ESTS	115	80	25	31%	9%
ECSTS-EED	249	243	86	35%	31%
ECSTS-other	855	812	163	20%	59%
<i>ECSTS-ALL</i>	1104	1055	249	24%	
ALL	1219	1135	274	24%	

Success rate dropped from 31% in 2016 to 24% this year due to massive increase in submissions



ECSTA applications by PGs



In CL 82, 20, 3



Support application:

Prize to pay: Early submission (*typically 6 weeks before the normal deadline*)

How to increase chances?

- Chose the appropriate session
- Write a good abstract
 - Be concrete in what you are going to present



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Communication Activities at the General Assembly

EGU Today

- EGU Today is a daily newsletter highlighting interesting workshops, lectures and GeoCinema screenings, amongst activities at the Assembly
- Paper copies will be distributed daily and are available to download at http://www.egu2017.eu/egu_today.html

Blogs

- GeoLog, the EGU Blog Network & EGU Division Blogs will be sharing great sessions, research, interviews and more throughout the Assembly
- Follow them at geolog.egu.eu and blogs.egu.eu

Social Media

- Sessions will be advertised on Twitter (@EuroGeosciences) and Facebook (European Geosciences Union)
- For behind the scenes access to the conference follow us on Instagram (@EuroGeosciences)
- Participants can ask questions & keep updated by following #EGU17

GA Survey

www.egu2017.eu/feedback

- **Distribution:**
 - via email to participants and EGU members after the GA
 - links on social media & blog
 - egu2017.eu website
 - Flyers/cards in Vienna
- **Survey live during the General Assembly until mid June**



Purpose of Galileo conferences:

- Bring together up to 100 participants for a 3-5 days meeting to discuss a well-focused cutting-edge topic at the frontier of geosciences research in a stimulating environment

- Next Call: December to February 2018 for conferences in 2019
- Possibility to publish a special Galileo conference proceedings issue in one of the EGU journals

Support:

- EGU is putting at disposal the conference organization tools; web hosting, abstract, programme and registration management.
- EGU provides comprehensive organisational support by organizing e.g. venue, poster boards, catering, Wi-Fi facilities, etc. Thereby the organising committee can fully focus on the scientific aspects of the conference.
- Support for Early Career Scientists (up to 5000€)
- EGU is covering a potential deficit of the event.



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Any other business?



EGU 2018 Program

Planning is starting now!

- **Setting up SKELETON PROGRAM**
- **Call for Abstracts**
- **Decision on which sessions are realized**

Special sessions e.g. Union Sessions:

Please discuss ideas with Didier Roche here in Vienna or by e-mail cl@egu.eu.



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Important deadlines

- 1) June 15, 2017 Awards (open now)**
- 2) Session proposals (E-mail to cl@egu.eu or open call July to mid September)**

**Enjoy the 2017 meeting!
Have fun and see you at EGU2018
8-13 April 2018**

**Meet us at the EGU booth in the poster area X2
Thu, 27 Apr, 13:30-14:15**