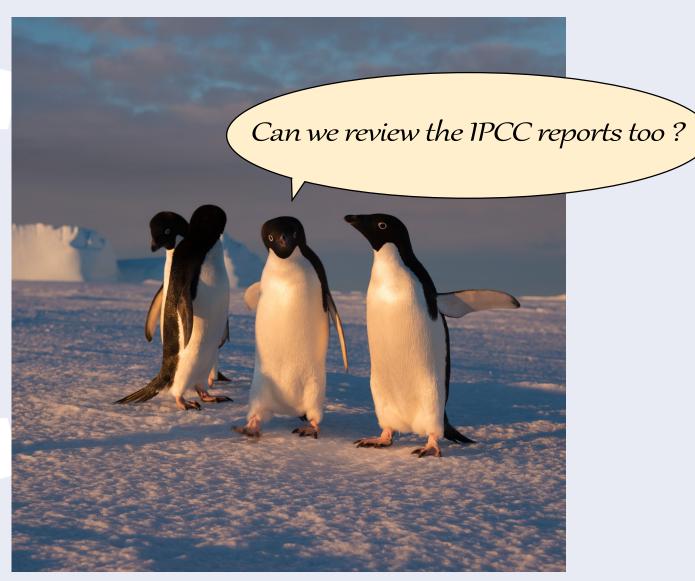
The benefits to climate science of including Early Career Scientists as reviewers



Mathieu Casado, Gwenaëlle Gremion, Jilda Alicia Caccavo, APECS IPCC review working group

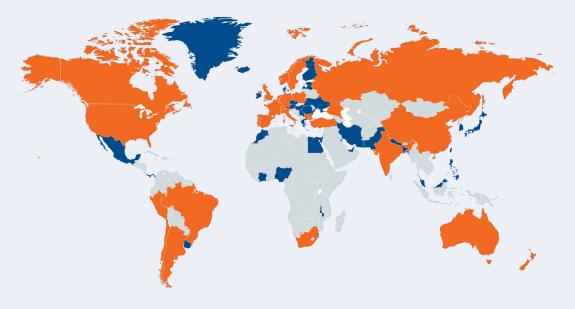
Who is APECS?

APECS is an international and inter-disciplinary organization

for **early career researchers** working in the **Polar** and **Alpine Regions** and the **wider Cryosphere**.

Membership includes:

- undergraduate and graduate students,
- postdoctoral researchers,
- early faculty members,
- young professionals,
- educators...



Maps of APECS membership: orange are the countries who also have an APECS National Committee (NC), and blue are countries with members, but no NC.

Current membership: 2778 from 69 countries

APECS contributes to the IPCC!

The diversity of disciplines covered by the members of APECS (the Association of Polar Early Career Scientists) were a perfect match for the Special Report on Ocean and Cryosphere in a Changing Climate (SROCC).

List of relevant chapters:

Chap 2: High Mountain Areas

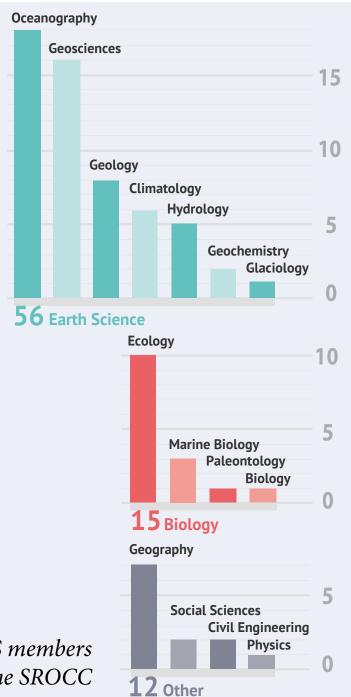
Chap 3: Polar Regions

<u>Chap 4:</u> Sea Level Rise and Implications for Low Lying Islands, Coasts and Communities

<u>Chap 5:</u> Changing Ocean, Marine Ecosystems, and Dependent Communities

<u>Chap 6:</u> Extremes, Abrupt Changes, and Managing Risks

Various disciplines representend by the APECS members involved in reviewing the first order draft of the SROCC





Oct 2017:

APECS approves the creation of a working group to review the First Order draft (FOD) of the SROCC





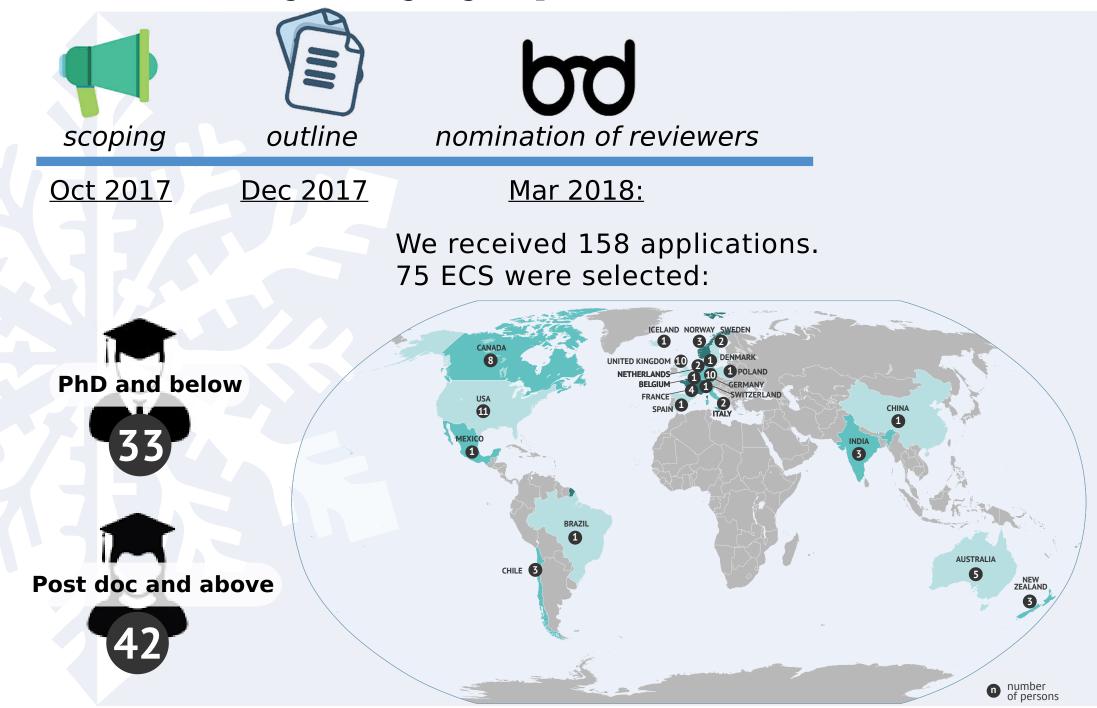
Oct 2017

Dec 2017:

APECS council organises a project group to prepare the group review:

the outline of the report is used to plan the group structure

Call for applications through APECS networks











Oct 2017

Dec 2017

Mar 2018

Mar to May 2018

Two training sessions were organised

Initiative supported by the IPCC WG I and WG II

Session 1: General introduction of IPCC procedures Session 2: Q&A with authors and vice chairs

Speakers included:



Sarah Connors Science Officier WGI



Andreas Fischlin vice-chair **WGII**



Greg Flato vice-chair WGI



Carlos Mendez vice-chair WGII



Katja Mintenbeck Elvira Poloczanska Director of Science WGII



Science advisor **WGII**

EGU session EOS5.1 - Thursday 06 May 2020









Oct 2017

Dec 2017

Mar 2018

Mar to May 2018

Our team produced up to 2155 comments,

These were checked and sorted, and 2012 were sent to the authors of the SROCC,

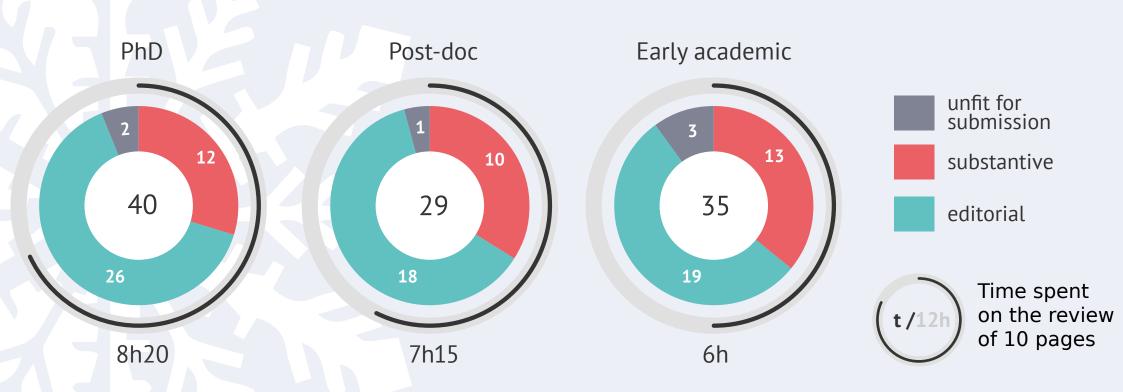


May - June 2018

Co-signed by all 75 ECS involved.

Everyone has something to offer

The number of comments per person is not linked with career level.



Comparing the average number of comments per person for different career levels

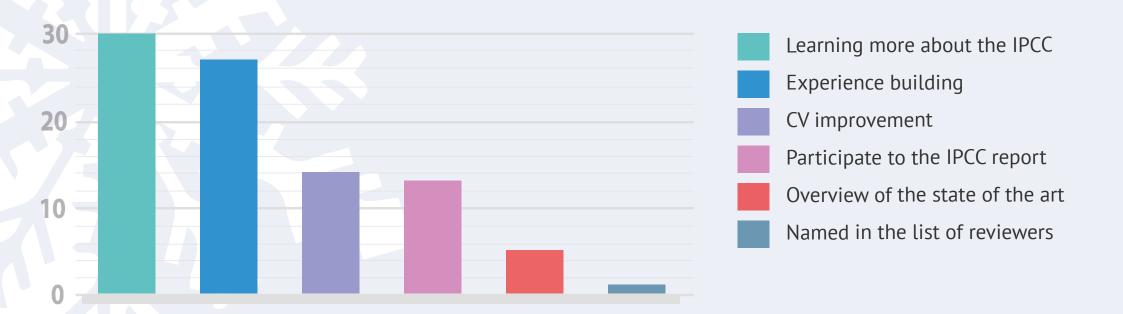
Casado et al, Geosciences Communication, 2020

EGU session EOS5.1 - Thursday 06 May 2020

Personal feelings of ECS

Being able to contribute to IPCC reports

Learn and get review experience



Motivations of the participants to take part in our group review

Casado et al, Geosciences Communication, 2020

EGU session EOS5.1 - Thursday 06 May 2020

Conclusions and perspective

Get involved in the IPCC reports by participating in the review of the report.

IPCC is committed to including motivated Early Career Scientists in their process. APECS supports Early Career Scientists who want to participate by:

- In fall 2020: organising a group review of the SOD of the WGI

Our experience shows that ECS are capable, and engaged reviewers.

Material produced:

- a guide,
- videos of our webinars,
- our communications in journals.

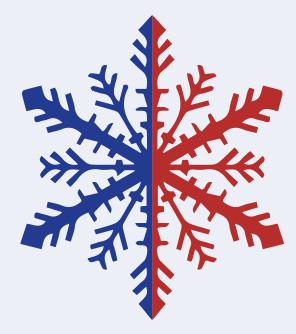
Ask us to access any of it!

Contact us at ipcc-review@apecs.is !!!

See also:



M. Casado, G. Gremion, P. Rosenbaum, J. A. Caccavo, K. Aho, N. Champollion, S. Connors, A. Dahood, A. Fernandez, M. Lizotte, K. Mintenbeck, E. Poloczanska, G. Fugmann, *The benefits to climate science of including early-career scientists as reviewers*, Geoscience Communication, 2020, doi: 10.5194/gc-3-89-2020



Thank you!

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We thank the members of the APECS IPCC review working group, Kelsey Aho, Nicolas Champollion, Sarah Connors, Adrian Dahood, Alfonso Fernandez, Gerlis Fugmann, Martine Lizotte, Katja Mintenbeck, Elvira Poloczanska, Paul Rosenbaum for their contribution to this presentation.