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Copernicus Publications
The Innovative Open Access Publisher

You publish. We care.

Co-founder of **CRSRA** Member of **stm**

Steps of Copernicus Publications towards open science and reproducibility

Dr. Xenia van Edig

O2R project workshop
17 May 2016 | Münster

History of Copernicus Publications

- Founding of Copernicus in **1988** as a spin-off of the Max-Planck-Institute for Solar System Research
- Organization of scientific meetings & conferences since 1988
- **1994** start of Copernicus Publications
- **2001** start of the first **open-access** society journal, followed by the move of the other journals towards OA
- **2016** Copernicus Publications publishes **38** peer-reviewed open-access journals and **18** access-reviewed scientific discussion forums
- **33** journals owned by/affiliated to learned societies and other scientific organizations
- **50** staff members, offices in Göttingen/Germany
- Co-founder of OASPA, member of stm, member of ORCID

Open access 1.0

Free access to the paper



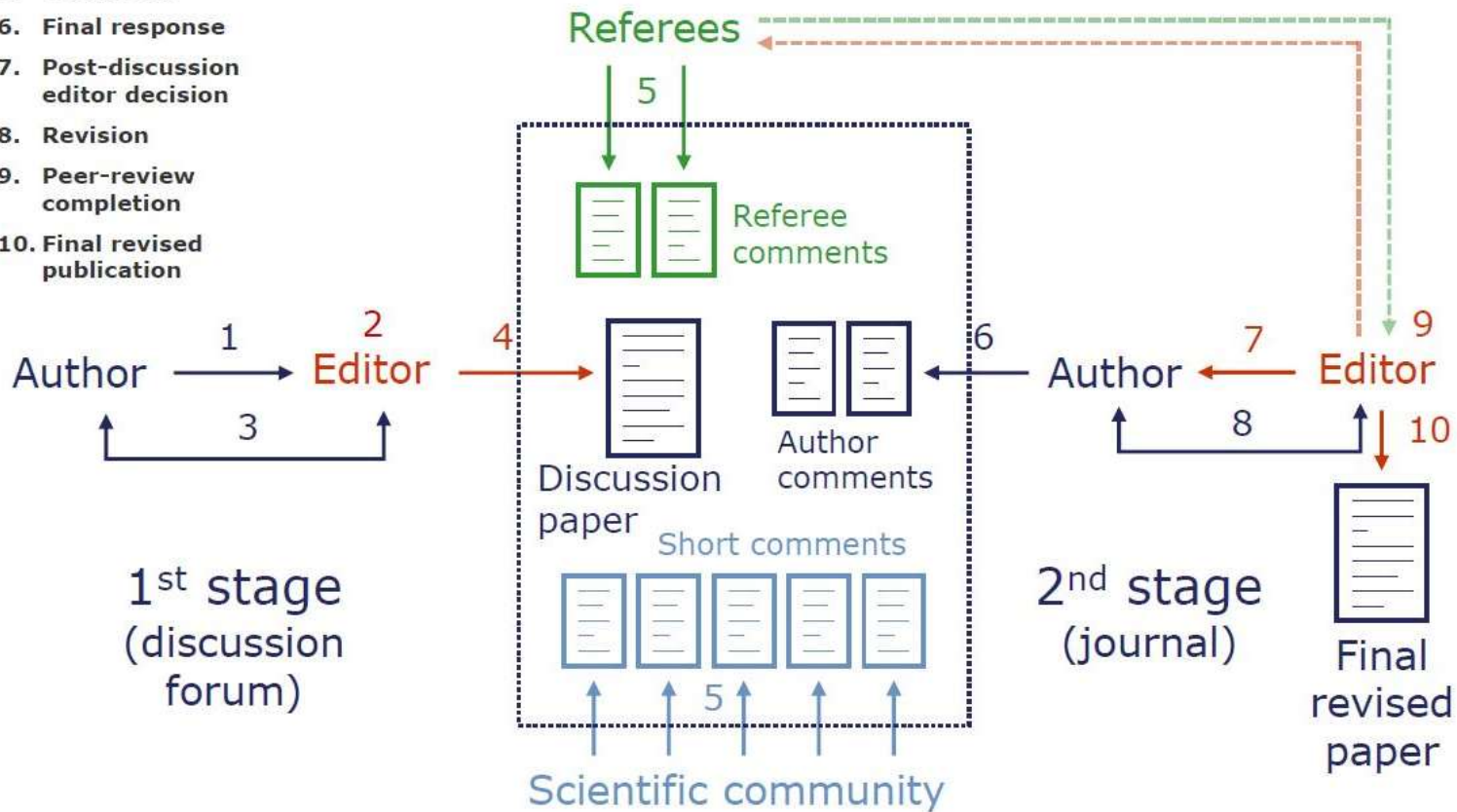
Open access 2.0

Free access to the peer review



Open access as the basis for new peer review models

1. Submission
2. Access review
3. Technical corrections
4. Publication as D-paper
5. Comments
6. Final response
7. Post-discussion editor decision
8. Revision
9. Peer-review completion
10. Final revised publication



Interactive Public Peer Review™

Rapid AND thorough

- Rapid publication as discussion paper
- Thorough peer review by discussion & revision

Win for authors, reviewers & readers

- Direct feedback & public recognition for authors;
- Higher quality submissions save reviewer capacities;
- Documentation of the review for readers.



Open access 3.0

Open science and reproducibility



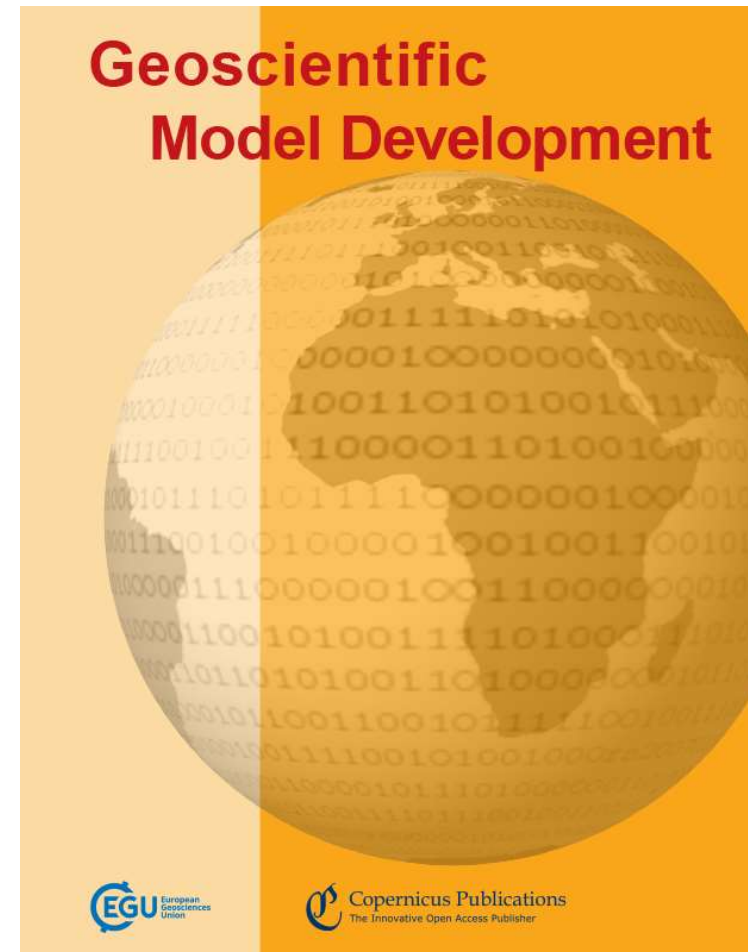
Data publication



- Launched in 2008
- Publication of articles on original research data (sets)
- Data is stored in reliable repositories
- Interactive Public Peer Review™
- Review also includes data quality, significance of data sets, their uniqueness, usefulness, and completeness
- Indexed in SCIE

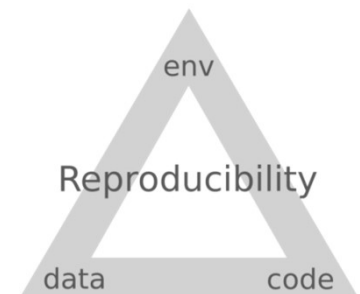
Publication of models and code

- Launched in 2008
- Publication and public discussion of the description, development, and evaluation of numerical models
- Interactive Public Peer Review™
- All papers must include a section “code and data availability”
- IF: 3.654 (2014)



Enforcing reproducibility

- Data Policy for all journals
 - encourage authors to deposit and cite data, model code, and other underlying material
 - data availability statement requested for all articles
- [Asset tab](#) to display and link underlying material for all articles
- Currently lacking: possibility to execute components



Open science as a principle

- The gold OA article is the trunk
- Data sets, model code, videos, samples, & other assets are branches
- Work becomes a publication cluster; all components are linked (DOI)
- Ideally, this cluster is executable



Thank you very much
for your attention!

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Reference

Reproducibility triangle, adapted from Fig. 1,
<http://www.nextflow.io/blog/2016/best-practice-for-reproducibility.html>