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Eartharxiv: Today and Tomorrow

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EARTHARXIV: TODAY AND TOMORROW

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And special thanks to Chris Jackson for valuable discussions!

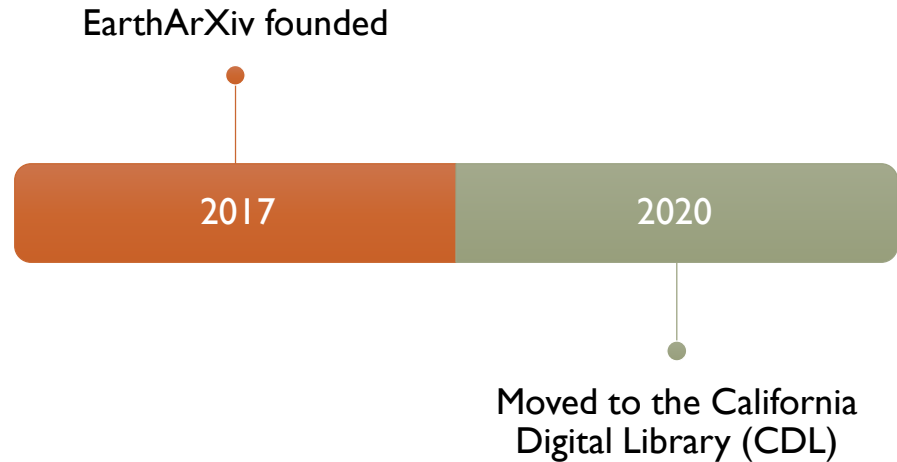
PREPRINTS

A **preprint** is a version of a scholarly paper that precedes publication in a peer-reviewed journal, typically prior to the formal, journal-led peer review process

Preprints are:

- i. **free** to submit;
- ii. **fast** to publish;
- iii. **open** access; and
- iv. **established** in many natural sciences

EARTHARXIV



A platform built to host pre/postprints for the Earth and Space Sciences

- CDL manages the technical infrastructure
- A global community of volunteers handles moderation and governance
- We do no peer-review. We moderate for scope/metadata

What does EarthArXiv accept?

- Research articles
- Review papers
- Case studies
- Technical notes (e.g. new instrumentation)
- Confirmatory studies
- So-called 'null' results (i.e. results that not supporting a hypothesis)
- Dataset description papers

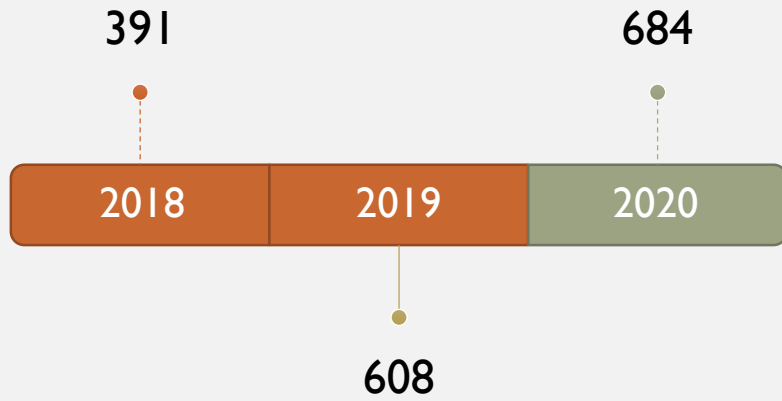
What does EarthArXiv not accept?

- Papers reading as a personal attack, airing of grievances, or insulting to a group/class of people. Racist and derogatory language **will not** be tolerated
- Commentaries and opinion pieces
- Posters (cf. ESSOAr)
- Theses and course projects (see www.thesiscommons.org)
- Software articles

EarthArXiv encourages the publishing of data and software alongside your paper

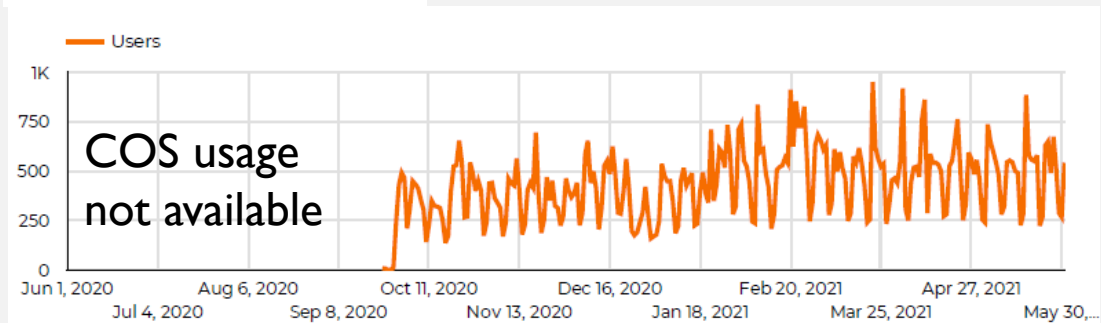


SUBMISSIONS PER YEAR

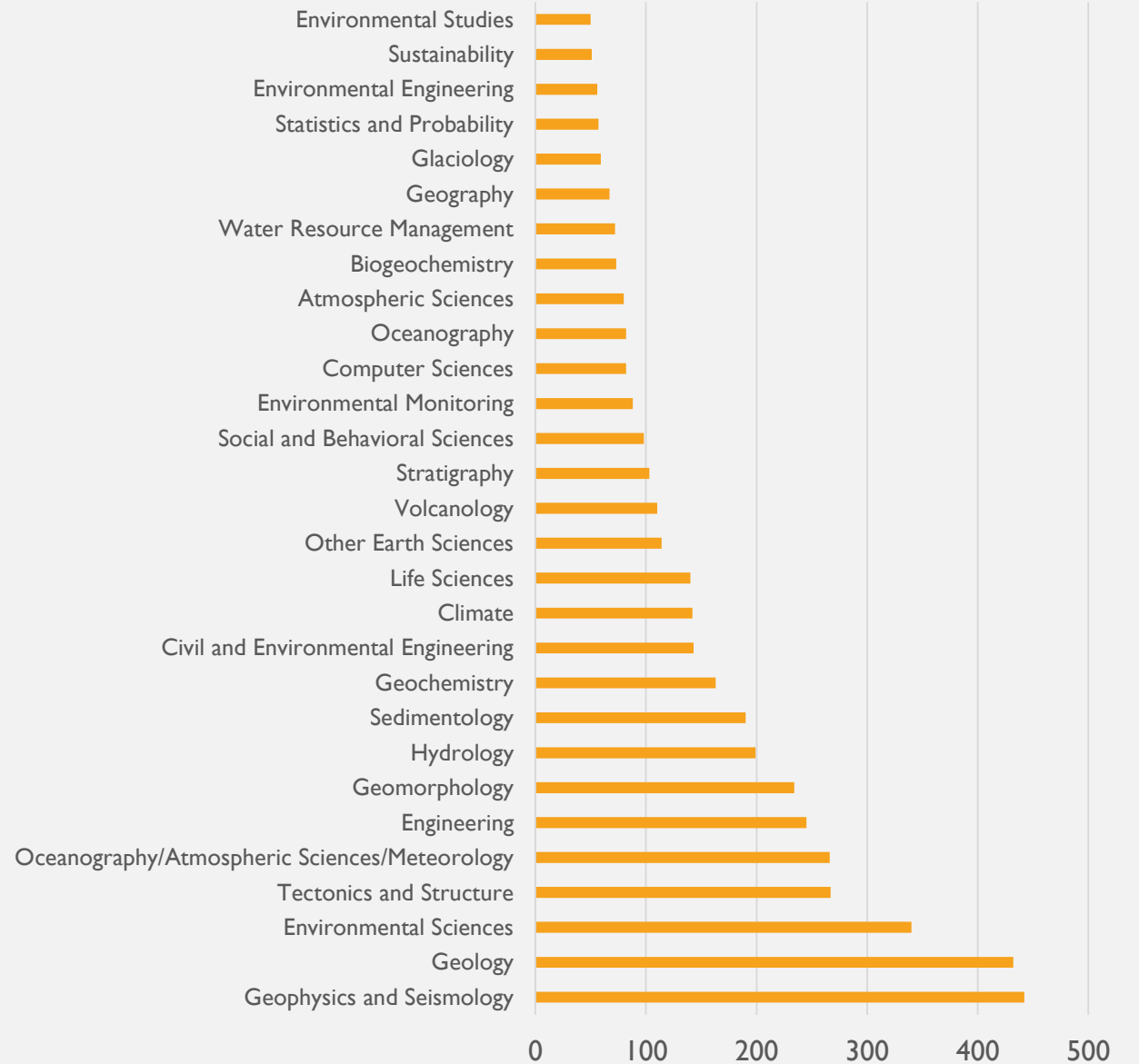


Continent	Users
1. Americas	30,417
2. Europe	28,608
3. Asia	14,744
... Oceania	2,652
5. Africa	1,301
6. (not set)	429

USAGE OVER THE PAST YEAR



Topical Areas with at Least 50 Submissions





Join us, follow us!
Make your work BETTER!

@eartharxiv



Alice-Agnes Gabriel
@InSeismoland

Following

Replying to @DocTerremoto @EarthArXiv and 2 others

Definitely - our dynamic earthquake model is only matching key observations if rupturing supershear, without the preprint we would have assumed this to be very unlikely. Early data and analysis sharing is especially crucial in data sparse regions

1:36 AM - 18 Mar 2019



Christopher Dean
@PrincessQuatris

Follow

Today, I received an email from a researcher who'd read my recent preprint on @EarthArXiv. He'd taken the time to provide (excellent) constructive criticism and suggest additional literature which is going to substantially improve the final paper.

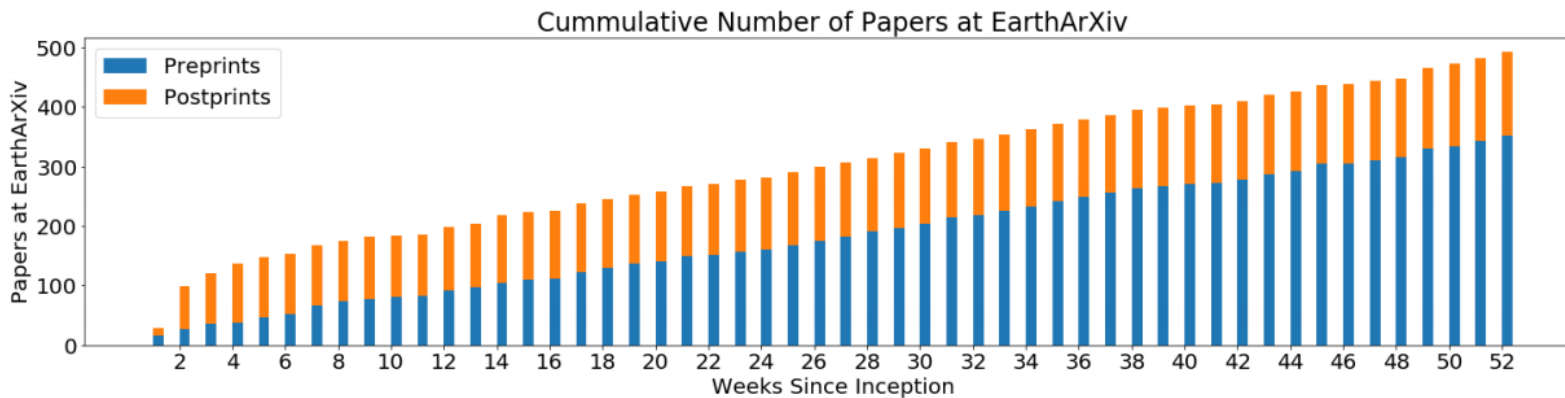
Pre-prints work people!

7:09 AM - 22 Jun 2018

Preprints lead to feedback
& improve your work



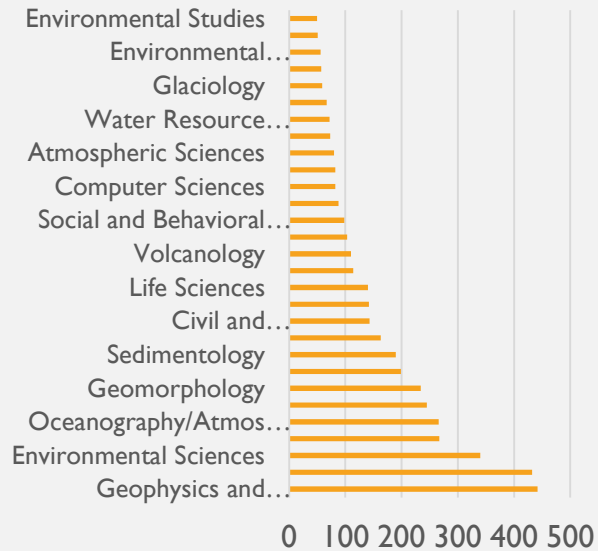
PUBLISHING AFTER EARTHARXIV



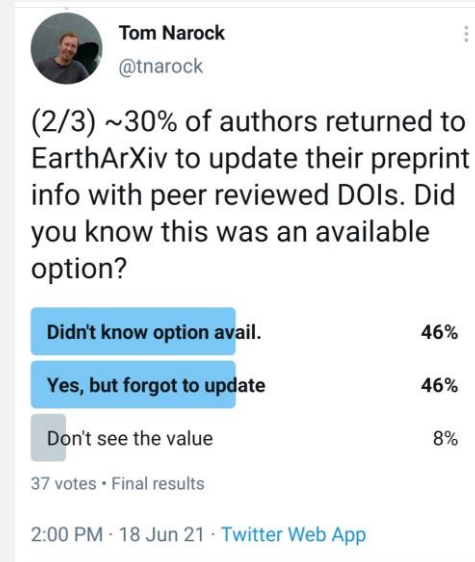
- Initially, EarthArXiv saw more postprints than preprints.
- Now, preprints dominate

- 728 first authors (~30%) returned to EarthArXiv to update preprint info with peer reviewed DOIs
- 116 of those 728 DOIs (16%) are in Open Access journals of the Directory of Open Access Journals (via UnPaywall API)
- 598 of those 728 DOIs (82%) are in non-OA journals
- 84 of those 728 DOIs (12%) did not have complete information via UnPaywall API
- Open Question: What drives peer-reviewed publication decisions?

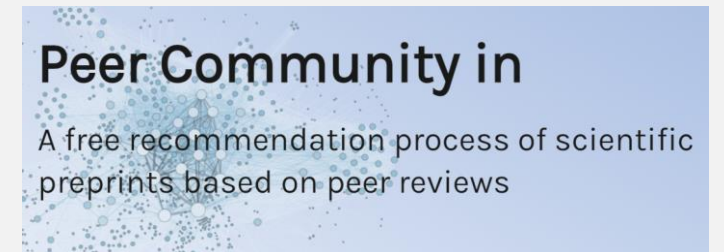
THE EARTHARXIV OF TOMORROW



- Outreach to more Earth science disciplines



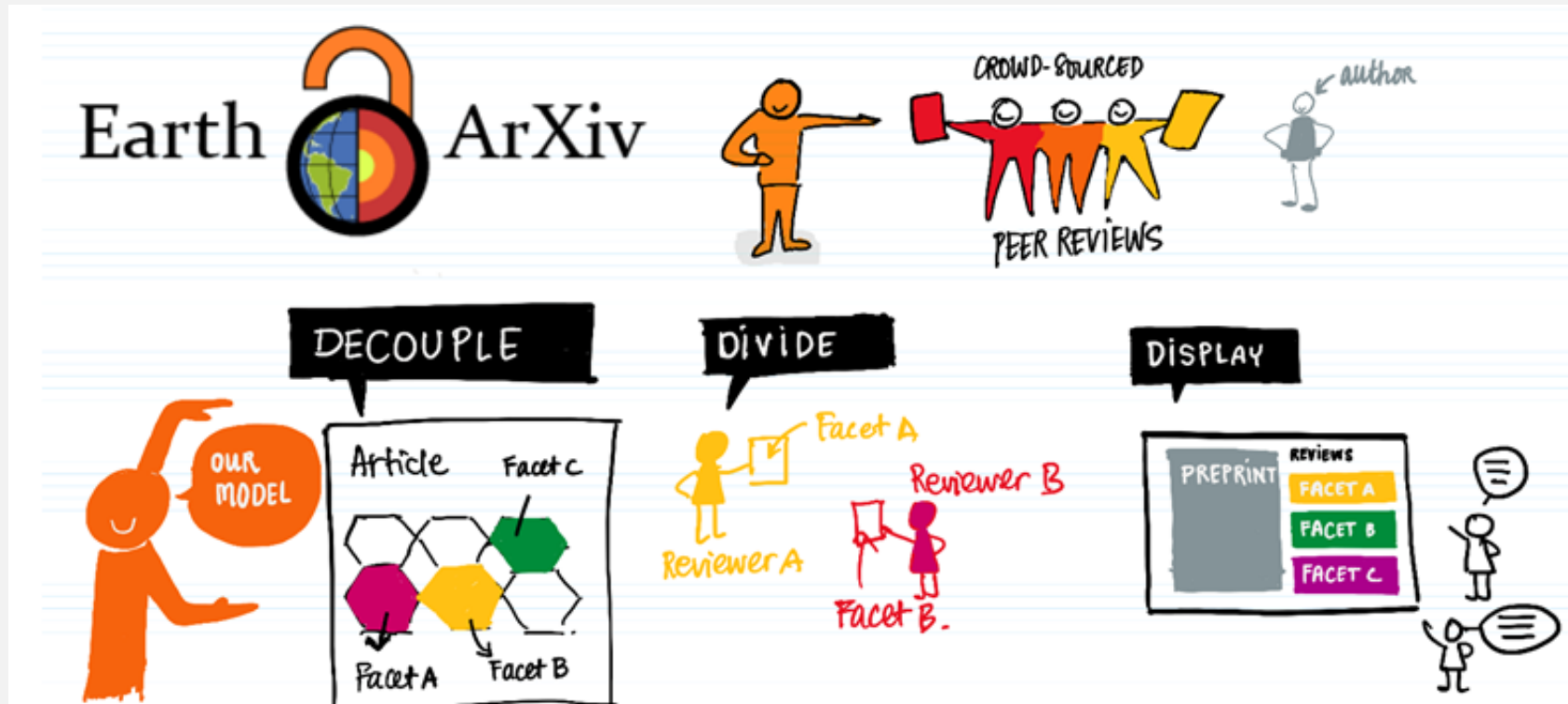
- Better post publication support



- Community review and faceted feedback

EARTHARXIV COULD SUPPORT...

- Decoupled crowdsourced peer-review, e.g. (Boston, 2020, see: zenodo.org/record/4362655)
- Connections with journals that enable automated submission (along with reviews)



Amazing artwork by: Dasapta Erwin Irawan



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@eartharxiv



<http://eartharxiv.org> – submit/read preprints

<https://eartharxiv.github.io/index.html> - community resource repository

