What is your career stage? (n=183)
- Early Ph.D. student (i.e., pre-candidacy): 29%
- Ph.D. candidate: 16%
- 0-3 years post-doc: 26%
- 4+ years post-doc: 11%
- Assistant professor: 7%
- Tenured: 9%
- Temporary/adjunct position: 1%

Where is your current host institution? (n=183)
- Africa: 55%
- Asia: 39%
- Australia: 4%
- Europe: 3%
- North America: 1%
- South America: 1%

In what field(s) do you work? (n=183)
- Climate/Earth system modeling/numerical modeling: 23%
- Terrestrial records (pollen, charcoal, tree rings, lake sediments, speleothems): 4%
- Marine records (coral, sclerosponge, marine sediment): 4%
- Glacier ice records: 4%
- Archaeology: 3%
- Other (please specify): 5%

Do you primarily collect/generate data (e.g. field- and laboratory-based, climate model output) or re-analyze existing data? (n=183)
- Collect/generate data: 45%
- Re-analyze existing data: 11%
- Both: 1%
- Other (please specify): 1%

Which of the following best describes your research? (n=183)
- Strongly driven by and dependent on quantitative data: 60%
- Reliant on quantitative data: 11%
- Primarily qualitative: 11%
- Other (please specify): 28%
Results reported in percentages (n=183). Some percentages do not add up to 100% due to rounding errors.

**S1 What is your career stage?**

- **Student**: 100%
- **Ph.D. candidate**: 62%
- **Early Ph.D. student (i.e., pre-candidacy)**: 38%
- **Assistant professor**: 24%
- **Lecturer/instructor (i.e., primarily teaching role)**: 18%
- **Post-doc**: 13%
- **Tenured**: 7%
- **0-3 years post-doc**: 5%
- **4+ years post-doc**: 4%
- **Tenure**: 0%
- **Nontenure**: 100%

**S2 Where is your current host institution?**

- **Africa**: 33%
- **Asia**: 6%
- **Australia**: 62%
- **Europe**: 5%
- **North America**: 33%
- **South America**: 7%
- **North America**: 100%
- **Asia**: 7%
- **Europe**: 1%
- **Africa**: 0%
- **Student**: 100%
- **Post-doc**: 67%
- **Tenure**: 5%
- **Faculty**: 1%
- **Nontenure**: 0%

**S3 In what field(s) do you work?**

- **Archaeology**: 6%
- **Earth system modeling/numerical modeling/glacier ice records**: 6%
- **Marine records (coral, sclerosponge, marine sediment)**: 6%
- **Terrestrial records (pollen, charcoal, tree rings, lake sediments, speleothems)**: 6%
- **Earth system modeling/climate/archaeology**: 6%
- **Other (please specify)**: 6%
- **Sclerosponge, marine sediment**: 53%
- **Lake sediments, speleothems**: 36%
- **Other (please specify)**: 7%
- **Glacier ice**: 0%
- **Terrestrial records**: 0%
- **Ocean records**: 0%
- **Climate model output**: 0%
- **Other (please specify)**: 0%
- **Sedimentary records**: 0%
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- **Other (please specify)**: 0%
If you use previously published paleo data from a 3rd party in your research, what has been your experience with data access?

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Yes, I regularly archive data for public access.

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Yes, I have not archived data for public access.

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S12 What describes best your experience with data archiving?

- nontenure: 12 (0%), 20 (17%), 30 (24%), 20 (24%), 7 (20%)
- tenure: 24 (75%), 19 (75%), 28 (93%), 24 (93%), 19 (64%)

S14 Do you add metadata or other supplementary information (e.g., code used for analysis) to your data before sharing it?

- nontenure: 9 (0%), 30 (10%), 46 (15%), 12 (4%), 12 (4%)
- tenure: 26 (84%), 10 (32%), 40 (13%), 12 (4%), 7 (2%)

S15 In your opinion, what products should be made publicly available in order to guarantee reproducibility?

- code (e.g., data analysis scripts): 35 (0%), 35 (10%), 39 (13%), 34 (11%), 35 (11%)
- data: 39 (13%), 37 (12%), 39 (13%), 34 (11%), 39 (11%)
- metadata: 25 (8%), 28 (9%), 28 (9%), 26 (8%), 24 (8%)

S16 Do you endorse the FAIR guiding principles on data sharing?

- Yes: 16 (5%), 30 (10%), 0 (0%), 0 (0%), 13 (4%)
- Yes, with reservations: 84 (27%), 65 (21%), 90 (30%), 78 (26%), 87 (29%)
- No: 39 (13%), 37 (12%), 39 (13%), 34 (11%), 39 (11%)
- I am not familiar with the FAIR guiding principles: 12 (4%), 20 (7%), 19 (6%), 23 (7%), 15 (5%)

S17 If you primarily generate new data, does your primary lab have an established protocol or SOP (standard operating procedure) for data formatting and accessibility?

- Yes: 10 (33%), 15 (50%), 6 (21%), 14 (47%), 7 (26%)
- No: 47 (15%), 45 (15%), 49 (16%), 47 (16%), 40 (13%)
- In progress/under discussion: 23 (7%), 25 (8%), 26 (8%), 15 (5%), 40 (13%)
- I don't work in such a lab: 20 (6%), 15 (5%), 19 (6%), 23 (7%), 13 (5%)
If your research group generates new data, what lab resources are allocated for preparing data to be open access at the end of the project’s cycle?

If you generate new data, do you feel there are enough lab and institutional resources dedicated to preparing these data to be open access at the end of your project/degree/contract?

Does your lab/institution provide support for training and professional development (including travel) for learning best data practices in your area of research expertise?

In your publishing experience, have journals required that data be open-access?

In your opinion, at which stage of the data cycle is appropriate to make data open access?
Have you ever felt pressured to share your data prior to publication?

Where did that pressure come from?

Are you familiar with the option to embargo uploaded data with repositories?

How likely are you to consider using a data embargo?

What aspect of paleo data is most important to your research?
S28 Which of the following describes your attitude towards open paleo data?

- 10%: I'm happy to share my data, but only after being contacted.
- 11%: I'm happy to share my data in a repository along with publication (no DOI).
- 9%: I'm happy to share my data in a repository prior publication as long as I have a data citation for it.
- 10%: I will share my data in a repository when ready, regardless of the stage of research (no DOI).
- 8%: It's important to me that the data I generate are available for future use.

S29 Do you feel that sharing your data openly is advantageous or disadvantageous to your long-term scientific objectives?

- 95%: Advantageous
- 5%: Disadvantageous

- 90%: Advantageous
- 10%: Disadvantageous

- 96%: Advantageous
- 4%: Disadvantageous

- 93%: Advantageous
- 7%: Disadvantageous

- 100%: Advantageous