

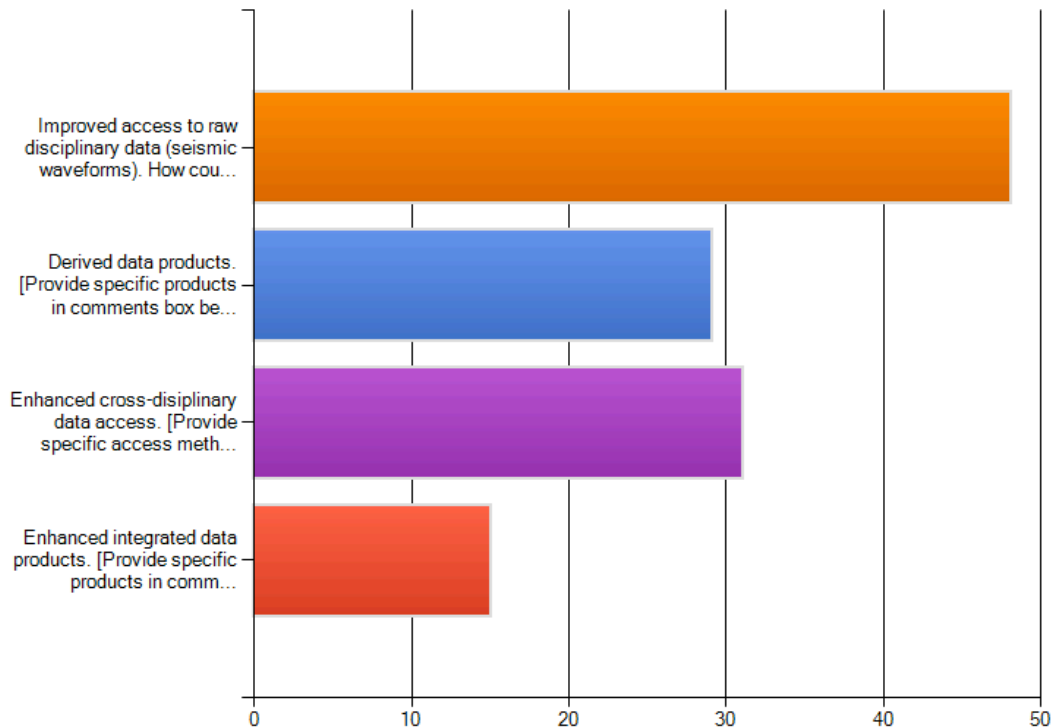
Results from an IRIS Initiated Survey of the Earth Sciences Community Related to EarthCube

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Preface: In an attempt to better understand the solid earth community's needs from the EarthCube system, IRIS initiated a 25-question survey of our community. A total of 74 individuals completed the survey. 54 respondents were from the US. 20 respondents listed their country as not being the US. 84% of the respondents were seismologists. We believe there were several areas where the answers to the survey provided insight into the type of EarthCube this community wants. We capture the most important conclusions from the survey in this white paper and we hope others find the results of interest, as we did.

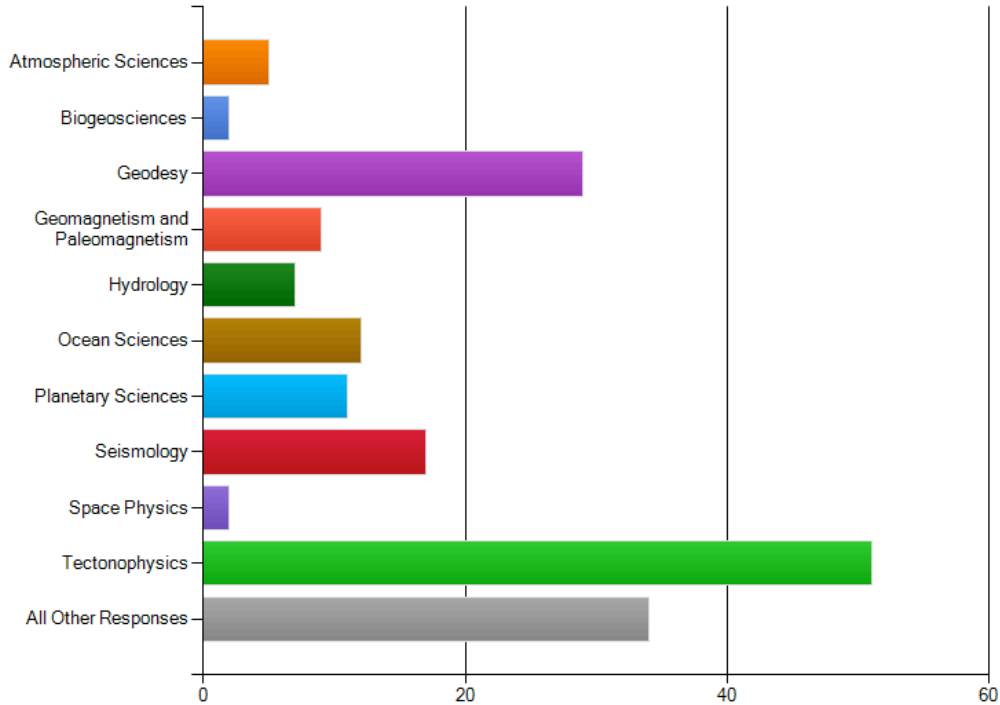
Survey Question #1. The community wants EarthCube to help gain access to raw disciplinary data more than any of the other options, including better access to cross-disciplinary data.

If EarthCube can provide additional resources to improve access to data and information across the Geosciences, which of the following areas are most important.



Survey Question #3. Interest in data from other earth science domains was high. The categories were those that are sections in the AGU.

What other geoscience areas are you interested in?

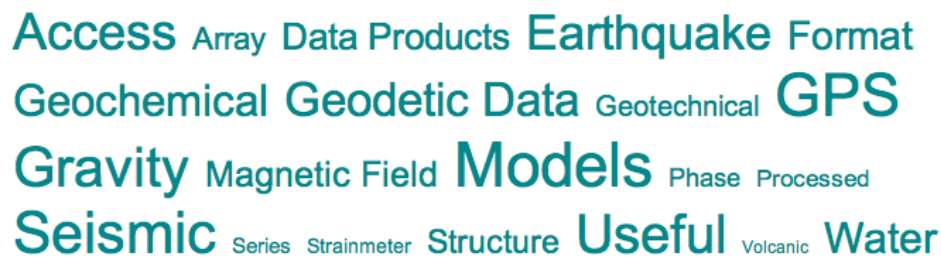


Survey Question #4. What types of digital data do you regularly use in your research? A cloud view of the 15 most cited data types is below. The size of the letters is proportional to the number of times the word was mentioned.

Showing 15 Most Important Words and Phrases

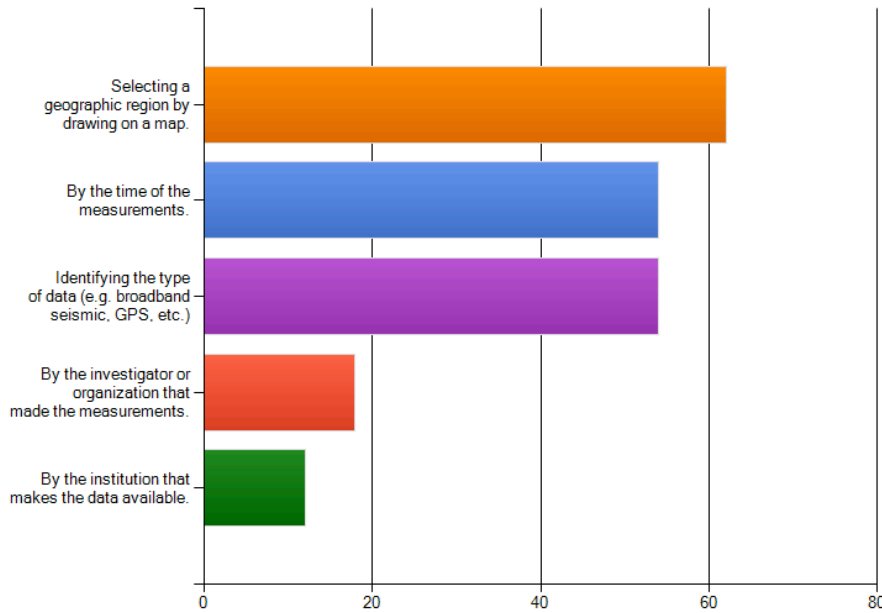


Survey Question #5. What other data types would you like to be able to discover use in your research?

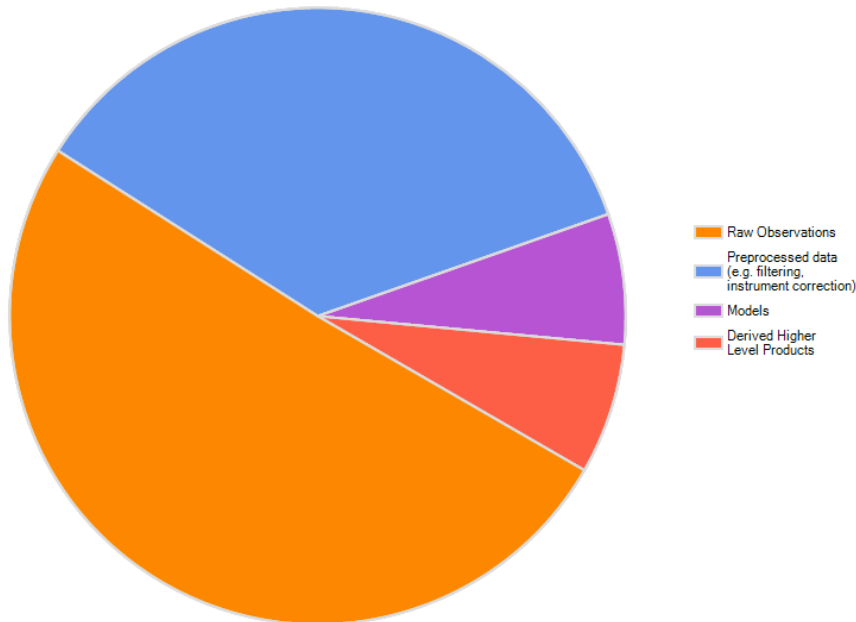


Survey Question #6. Which of the following describes how you would want to discover data that are available? Select all that apply. Data discovery using space-time and instrument type are dominant discovery wishes.

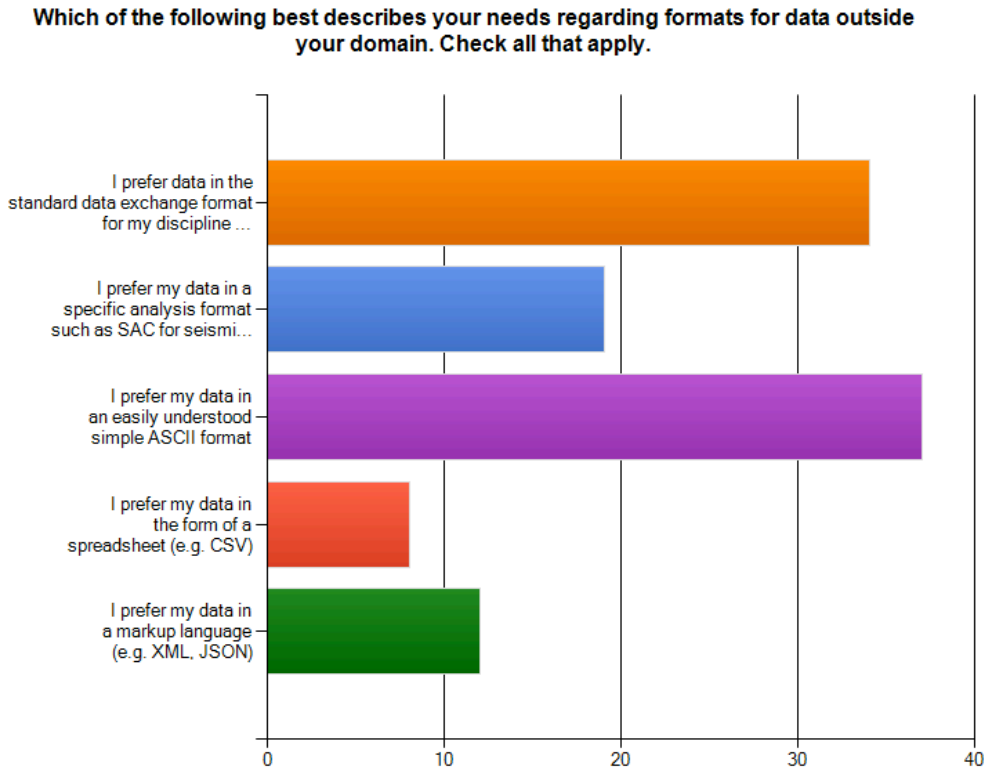
Which of the following describes how you would want to discover data that are available? Select all that apply



Survey Question #7. Are you most interested in (select one). Access to raw data and then preprocessed data dominated the responses.



Survey Question #9. Which of the following best describes your needs regarding formats for data outside your domain. Check all that apply. We believe it is very significant that the dominant format wish for data outside their domain is a simple ASCII representation, followed by the format used within the domain.

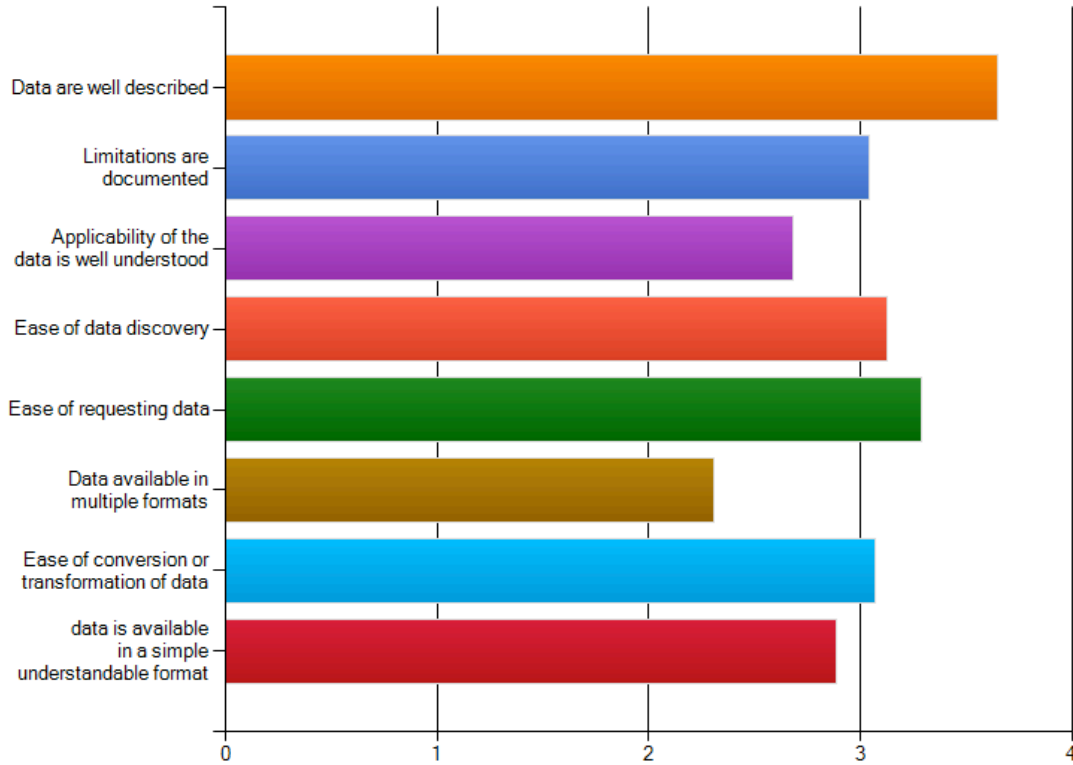


Survey Question #11. What Specific disciplinary data do you most often use in your research?

Bathymetry Broadband Earthquake Field GPS Data
 IRIS Magnetotelluric Results Sac Format Satellite
Seismic Data Seismic Waveforms
Seismograms Seismology Topography

Survey Question #12. When accessing interdisciplinary data how important are the following factors.

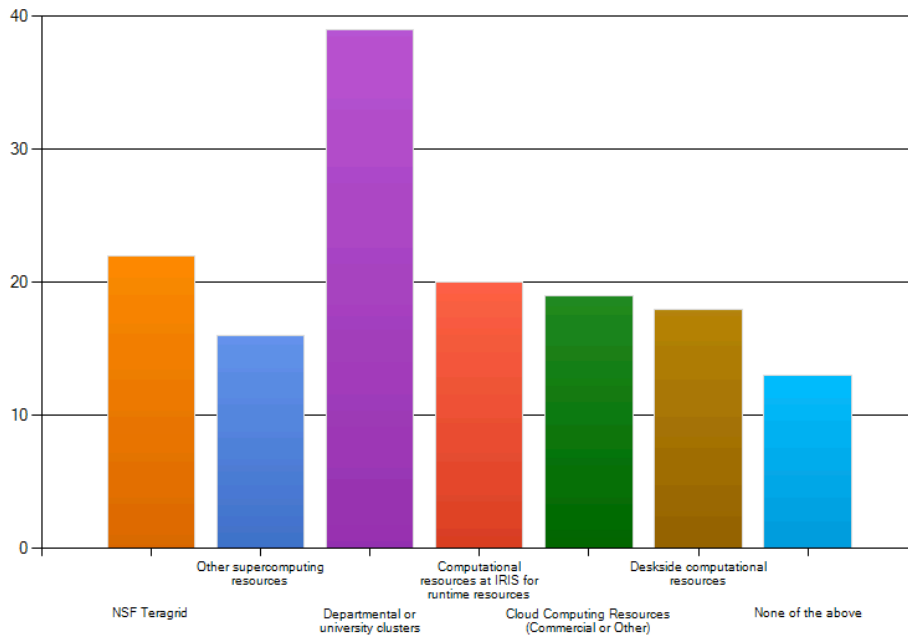
When accessing interdisciplinary data how important are these factors



Survey Question 13. What non-geoscience interdisciplinary data would you like to be able to use in your research?

Atmospheric Data Engineering Data Geoscience
 Infrastructure Maps Mind Models Population
 Sciences Seismic Space Think Wave

Survey Question 15. Do you want simplified access to large computing resources in your research? This community primarily wants access to local clusters instead of HPC access.



Survey Question #19. How important are the following in terms of impediments you currently have in accessing and using data from other disciplines? Data integration is a key need of our community and the ability to convert between formats also has importance.

