



Data Introspection

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HAQAST

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Thoughts about incorporating remote sensing into the regulatory framework:

- Air quality management is built upon the federal Clean Air Act.
- Public health is at the surface.
- Resources are strained.
- Satellite concepts and terminology are unfamiliar.

Assistance needed, inquire within.

NASA's Understanding Needs to Broaden Outside Use of NASA Data for Air Quality (UNBOUND-AQ)

<https://www.earthdata.nasa.gov/unbound-air-quality-report>

Three-day workshop to identify barriers for accessing and using NASA data.



"The biggest challenge users identified for using NASA air quality data was data accessibility."

UNBOUND-AQ Workshop Objectives

<https://www.earthdata.nasa.gov/unbound-air-quality-report>

1. Can you find and download the data?
2. Can you open and understand the data?
3. Can you apply the data to your work?

UNBOUND-AQ Workshop Outcomes

<https://www.earthdata.nasa.gov/unbound-air-quality-report>

- Use plain language.
"I would have to read several academic papers to understand how the data were arrived at."
- Make data available in csv and GIS file formats. Offer code snippets in multiple programming languages.
"Some datasets ... I couldn't even find a format that I recognized or understood."
- Give metadata and allow subsetting before downloading.
"How much of this will I have to download to know if I'm getting what I want?"
- Consider user hardware, software policy, and bandwidth limitations.
"I don't think my internet is that bad, but it took four and a half hours to download."
- Add data to clearinghouses (ArcGIS Living Atlas, Kaggle, Google Earth Engine)

Contact

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