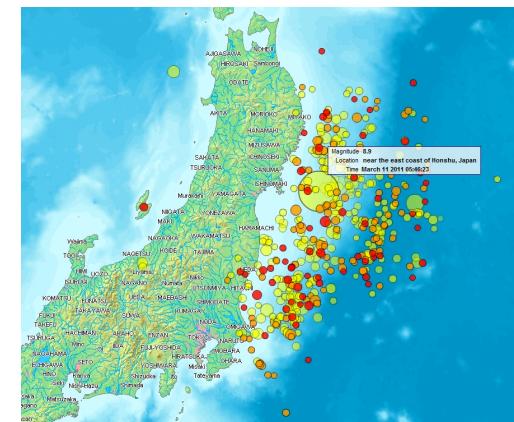




Fukushima Radiation Measurements: Government Cover Up?

Matt Tweardy

<https://github.com/mtwe>



The Question

- Radiation can be harmful to human health and the environment if the activity is high enough
- Allegations that the Japanese government has downplayed the risk from radiation release in surrounding areas
- How do the Japanese government's radiation measurements compare to independent measurements?
- Do the levels even matter? Are they dangerous?

Data Sources



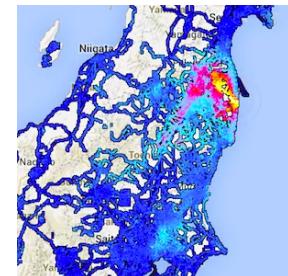
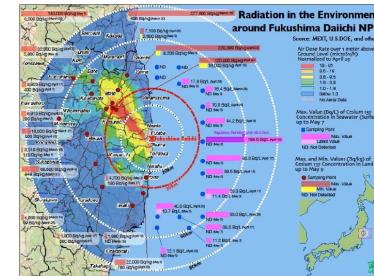
M E X T

MINISTRY OF EDUCATION,
CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY-JAPAN

- Japanese government official database
- Looking at radiation measurements in air
- Both data sources have been downloaded from online resources
- Both give timestamp, latitude, longitude, radiation activity records

Other potential sources of data:

- Soil, water, food measurements
- US government measurements



SAFECAST

- “pro-data” project to collect independent measurements and communicate them to the public

Analysis Approach

- Parsing two (or more) databases to find “equivalent measurements” at the same time and place
- Statistical analysis of time series of “equivalent measurements”
 - Are they different? How different?
- Data visualization interface on map tile overlay
- Open to any other ideas!

**Q: This is a weird project for CS.
Why are you doing it?**

A: I am a nuclear engineering graduate student and I think this is interesting

Still Interested?

- Contact me (Matt) at
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- <https://github.com/mtwe>