



2023 浜通り環境放射線研修

下旬飯舘組 A 班

成果発表会
10/28/2023

Outline of the Presentation

- Sampling and Measurement
- Iitate Village Community
- Current State of 3/11 Disaster
- Conclusions

Sampling and Measurement

Insights and impressions:

- We noticed the changing radiation levels during each area visited (farm, mountain, power plant) and observed that the radiation is already localized.
- The experience served as a good training ground for measuring amount of contamination using real samples, as opposed to pure radioactive materials. The field work sampling collection and packing, together with the measurement activity, is replicable and simple enough to be done by anyone regardless of background.
- We interpreted the difference in the radiation measurement of our samples (soil vs. plant) and explained the statistical uncertainties.

Sampling and Measurement



Who to tell and why:

- Students and Colleagues - to generate interest and further research in nuclear physics and disaster prevention.
- Public and Community - to raise awareness and correct misinformation about the current radiation in Fukushima, the safety of their products, and the consequences of the nuclear disaster.

Iitate Village Community

Insights and impressions:

- The Yamatsumi shrine stands as a hub of the community where people can visit and appreciate the folk art of wolf paintings that speak a lot about different seasons of emotion/expression. This shrine also serves as a landmark where residents of the area can gather together to connect and keep their traditions alive.
- We were deeply saddened to learn that most of the elderly people at the Day Care facility are living alone. We hope that they receive more frequent visits and engage in a greater variety of activities and tasks aimed at improving their cognitive well-being and overall happiness.
- The venue where we process our samples is a local grade school, currently serving as the Regional Disaster Prevention Center. This only shows that it may take some more time for the community to return to its usual size and functionality.

litate Village Community



Who to tell and why:

- The Mayor of litate Village - sharing our close encounter experience with the community could provide new insights for improving the current situation.
- Family and Community - to promote the significance of our elders in safeguarding the cultural heritage and to ignite the desire in creating a healthy and happy environment for the old people.

Current State of 3/11 Disaster

Insights and impressions:

- The disaster was due to human oversight and failing to consider the environmental conditions where the power plant was built. As a result, so much time, effort, and money are being sacrificed to the decontamination and decommissioning work.
- The 1F tour emphasized that the radiation levels inside are safe and exposure is constantly being monitored. We also learned of the safety of the discharged ALPS-treated water, having tritium concentrations way lower than the regulation level.
- We contemplated on whether the work of the Interim Storage facility on the decontaminated soil is sustainable and should be further recycled for use.

Current State of 3/11 Disaster



Who to tell and why:

- Family and Friends - to reestablish trust and confidence in Fukushima and the decommissioning of 1F.
- Future generations of Students and Leaders - to avoid the mistakes of the past that led to the disaster, and to encourage them to listen to all sides and be involved in matters of environmental safety.

Conclusions

- This fieldwork enables us to experience firsthand the current situation in Fukushima and understand it from both social and scientific perspectives.
- Processing and gathering the samples ourselves not only lends greater credibility but also instills confidence when sharing the results with others.
- We have acquired a valuable scientific skills in measuring, analyzing, and interpreting the data of radioactivity in the area.
- We have also come to recognize the significance of engaging every segment of the community in efforts to enhance the recovery of the place.
- Lastly, we enjoyed doing the activity with our group!