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Radiation Monitoring Data from Fukushima Area March 22, 2011 15 hours ago

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Radiological Assessment March 22, 2011

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Radiation Monitoring Data from Fukushima Area March 22, 2011 - Presentation Transcript

1. Radiological Assessment March 22, 2011

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2. AMS Summary

2

Ops Summary

Aerial Measurement Systems totaled more than 40 hours of flying

Plot interpretation

AMS data is presented as exposure rate 1 meter from the ground at the time the measurements occurred.

3. 3

Guide to Interpretation

US radiological assessments are composed of aerial and ground measurements and indicate the amounts of radiological material that has settled on the ground.

Each measurement corresponds to the radiation a person receives in one hour at that location.

These calculations account for multiple variables. For instance, radiation is most intense in the first days following its release. Therefore, dose reduction may be achieved by evacuating early in the response.

All measurements in this plot are below 0.03 Rem per hour – a low level. And nearly all elevated readings are within 25 miles of Fukushima Daiichi.

Measurements also show an area of greater radiation extending northwest from the accident. This area may be of interest to public safety officials and responders.

4. 4

5. 5

6. Context

The Nuclear Regulatory Commission estimates that the average American absorbs 620 mRem a year* (or 0.071 mRem/hour)

An average transatlantic flight produces an exposure of 2.5 mRem*

A typical chest x-ray produces 10 mRem per image

EPA guidelines call for public health actions if exposure exceed 1000 mRem over 4 days

* Source: NRC: <http://nrc.gov/images/about-nrc/radiation/factoid2-lrg.gif>

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7. 7

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