

SUPPLEMENTARY INFORMATION

SUBJECT AREAS ENVIRONMENTAL SCIENCES

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Predictability of the dispersion of Fukushima-derived radionuclides and their homogenization in the atmosphere

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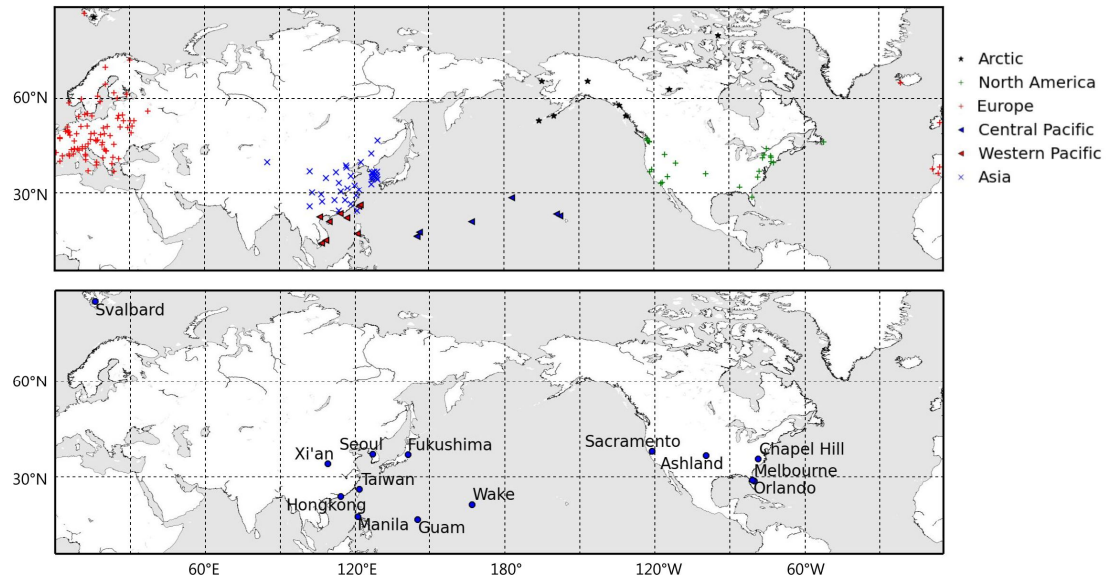
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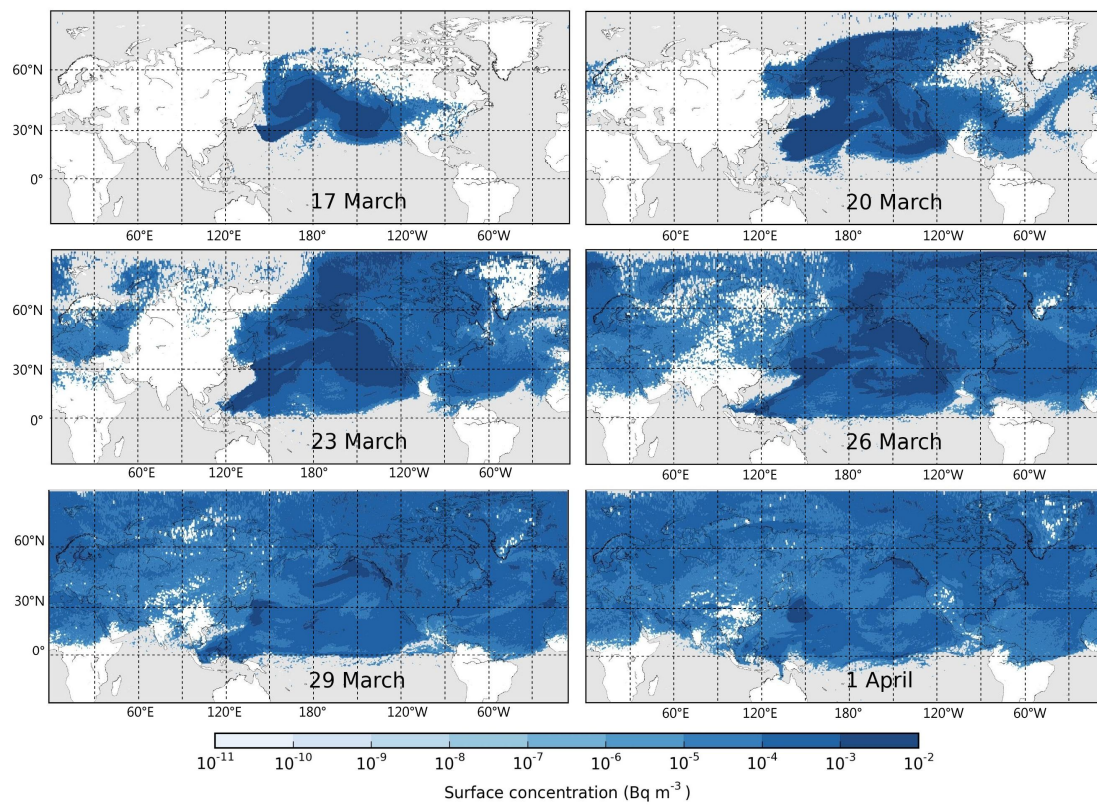
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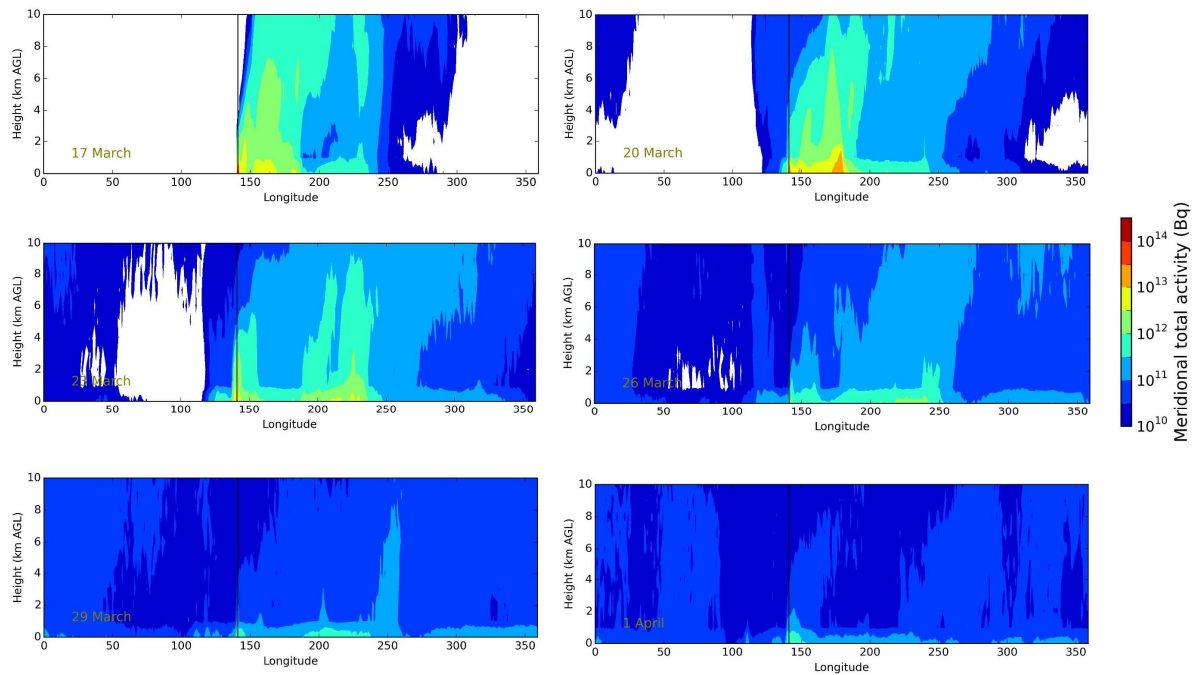
Supplementary Figures



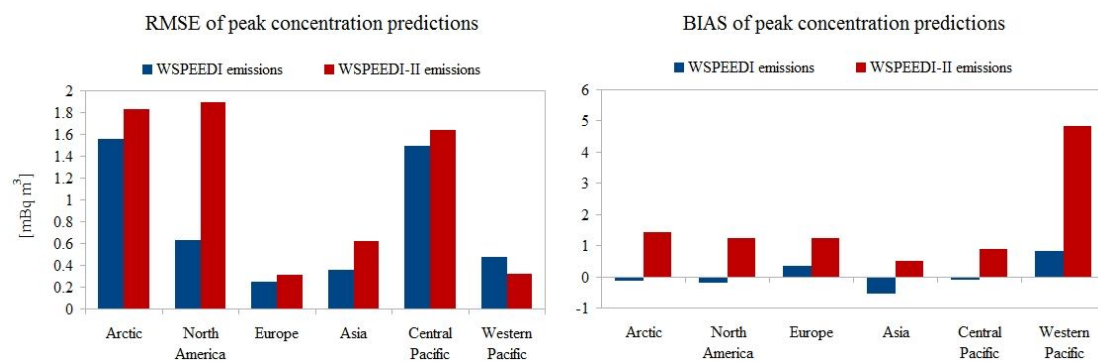
Supplementary Figure S1. Location and classification of measurement sites (up) and map of a few locations explicitly mentioned in the paper (down). The figure was made with the Matplotlib Basemap package.¹



Supplementary Figure S2. Modelled ^{131}I activity concentrations in the surface layer (0 – 100 m) on 6th, 9th, 12th, 15th, 18th and 21st days after the initial release. The figure was made with the Matplotlib Basemap package.¹



Supplementary Figure S3. Vertical profile of meridionally integrated ^{131}I activity in the troposphere (0 – 10,000 m) on 6th, 9th, 12th, 15th, 18th and 21st days after the initial release. The figure was made with the Matplotlib package.¹



Supplementary Figure S4. Comparison of peak concentration results for particulate ^{137}Cs concentration between WSPEEDI and updated WSPEEDI-II emission scenario.

Supplementary Movies

Supplementary Movie S1

Modelled ^{131}I activity concentrations in the surface layer (0–100 m) on the 6th, 9th, 12th, 15th, 18th and 21st days after the initial release. The figure was made with the Matplotlib Basemap package.¹

Supplementary Movie S2

Modelled vertical distribution of meridionally integrated particulate ^{131}I activity in the atmosphere on the 6th, 9th, 12th, 15th, 18th and 21st days after the initial release. The figure was made with the Matplotlib package.¹

References

1. Hunter, J. D. Matplotlib: A 2D Graphics Environment. *Computing in Science Engineering* **9**, 90–95 (2007).