

ATTACHMENT C-21

**MAPS OF RATIOS OF DIFFERENT GROUND
DEPOSITION DATASETS**

UNSCEAR 2013 Report, Annex A, Levels and effects of radiation exposure due to the nuclear accident after the 2011 great east-Japan earthquake and tsunami, Appendix C (Assessment of doses to the public)

Contents

This attachment provides the maps of the ratios of different ground deposition densities in datasets for ^{137}Cs , ^{134}Cs and ^{131}I that were derived using direct measurements on the ground (see attachments C-1 and C-2), airborne survey [USDOE, 2013] and as estimated using the NOAA-GDAS atmospheric transport, dispersion and deposition modelling (ATDM) undertaken during this assessment. Attachment C-20 provides the spreadsheets that compare the ground deposition densities from the ATDM modelling, the MEXT ground survey and the NNSA airborne survey results.

USDOE. US DOE/NNSA Response to 2011 Fukushima Incident – raw aerial data and extracted ground exposure. US Department of Energy. [Internet] Available from (<https://explore.data.gov/d/prm-6s35>) on 21 March 2013.

Notes

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

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This publication has not been formally edited.

Figure I. Ratio of ^{137}Cs ground deposition densities for NNSA airborne survey to those of the MEXT ground deposition dataset (decay corrected to 14 June 2011)

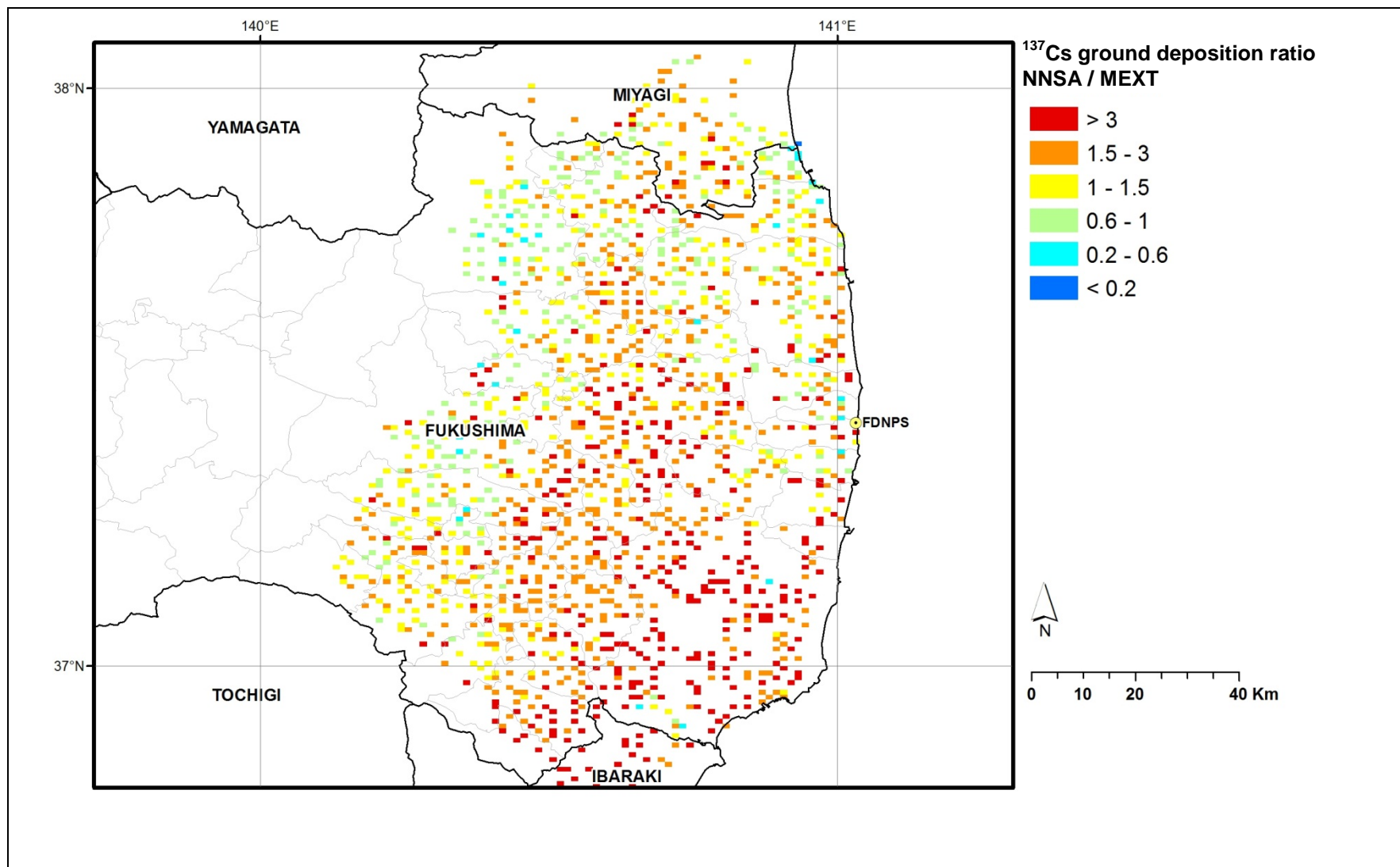


Figure II. Ratio of ^{137}Cs ground deposition densities derived from atmospheric transport, dispersion and deposition modelling (NOAA-GDAS Model) to those of the NNSA airborne survey (decay corrected to 14 June 2011)

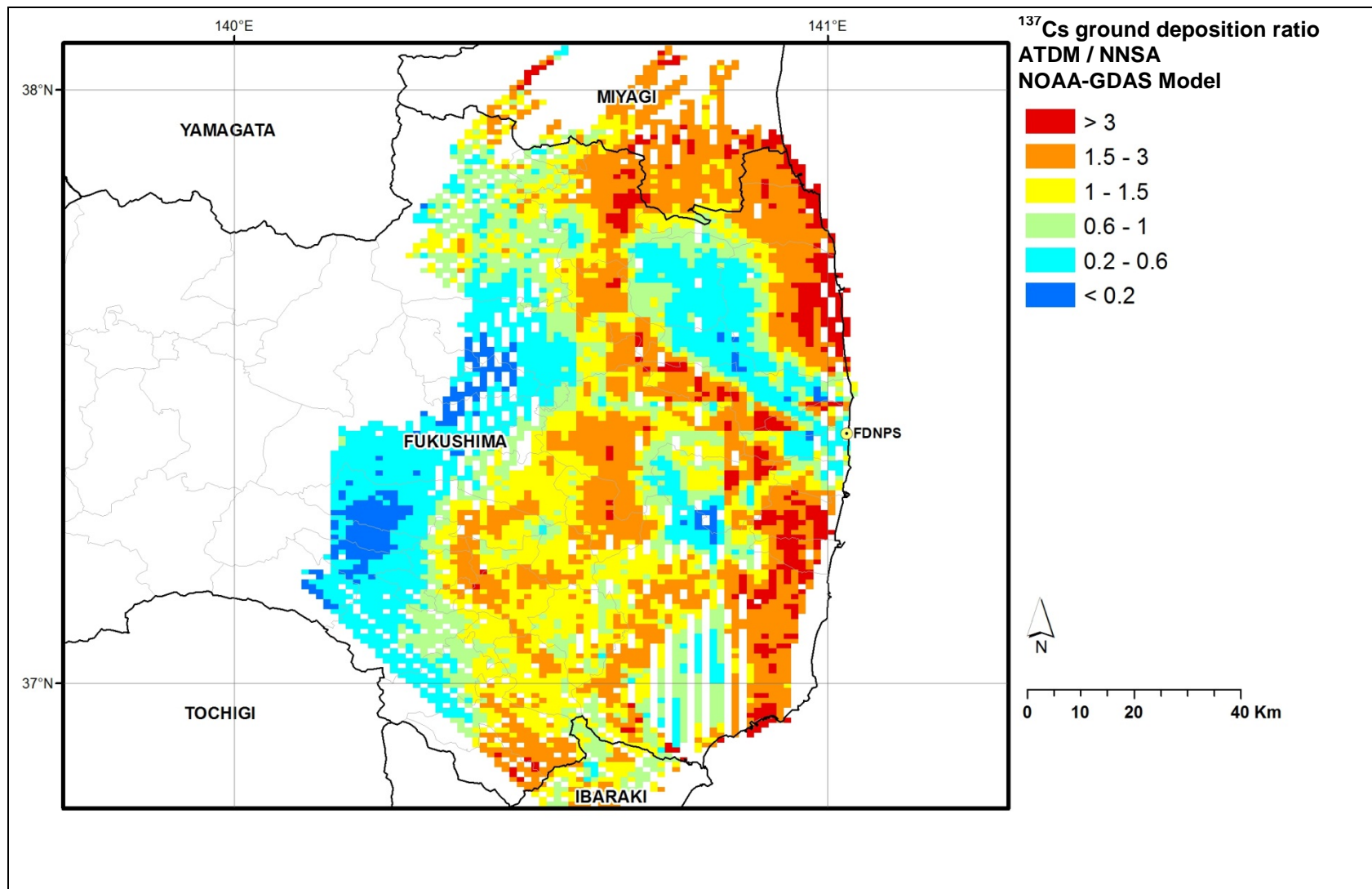


Figure III. Ratio of the ^{137}Cs ground deposition densities derived from atmospheric transport, dispersion and deposition modelling (NOAA-GDAS Model) to those of the MEXT ground deposition dataset (decay corrected to 14 June 2011)

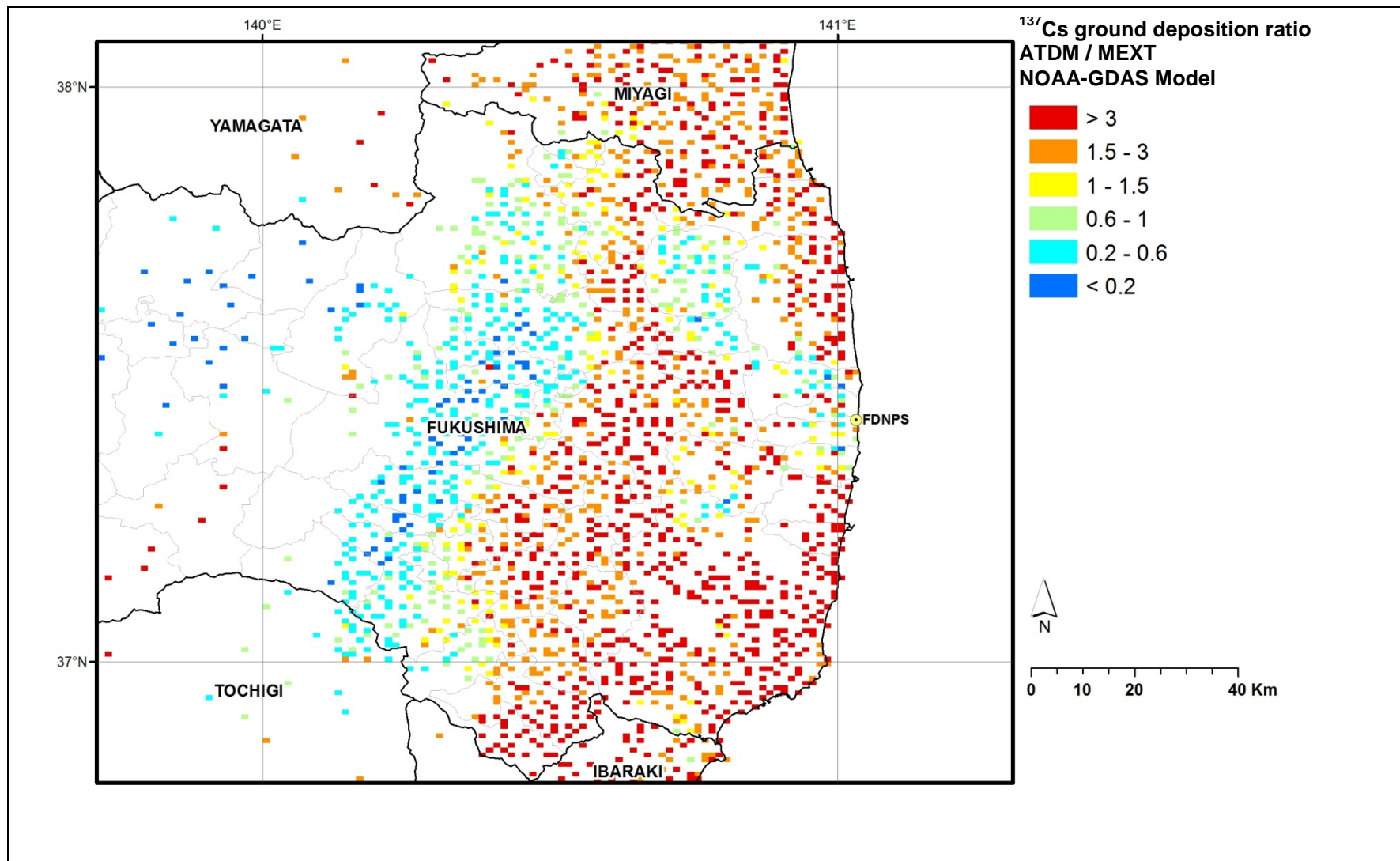


Figure IV. Ratio of the ^{134}Cs ground deposition densities for the NNSA airborne survey to those of the MEXT ground deposition dataset (decay corrected to 14 June 2011)

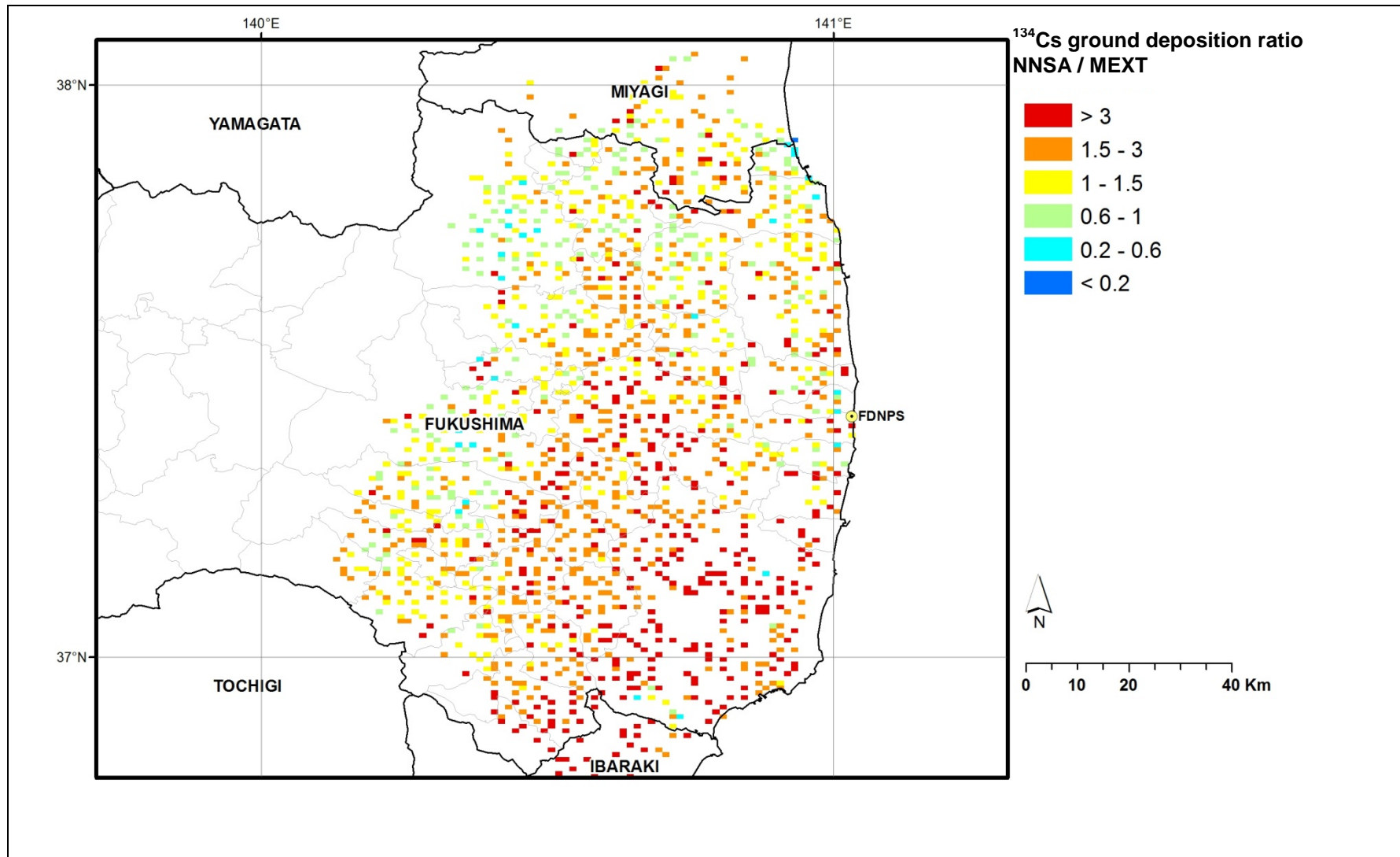


Figure V. Ratio of the ^{134}Cs ground deposition densities derived from atmospheric transport, dispersion and deposition modelling (NOAA-GDAS Model) to those of the NNSA airborne survey (decay corrected to 14 June 2011)

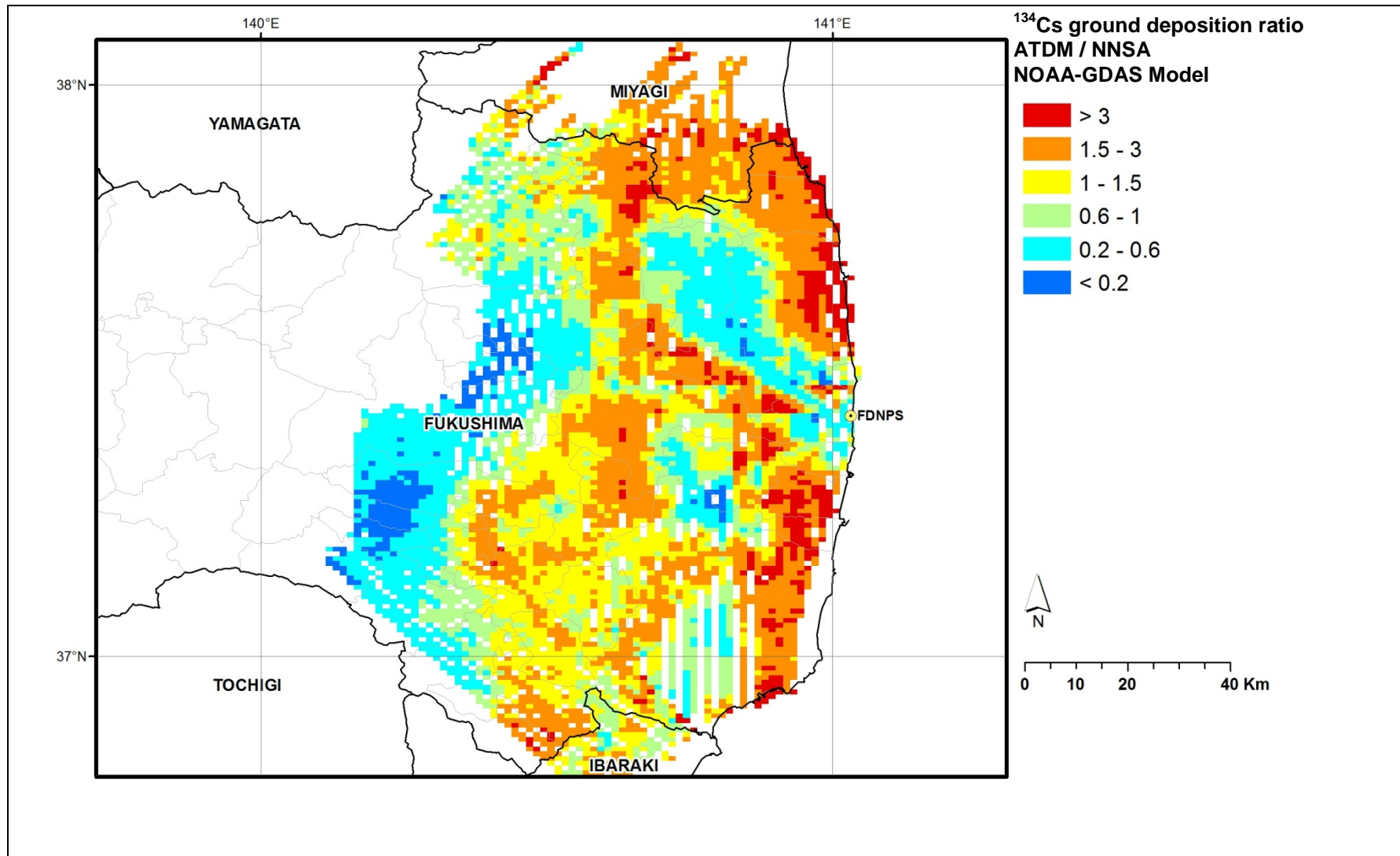


Figure VI. ^{134}Cs ground deposition ratio - atmospheric transport, dispersion and deposition modelling (NOAA-GDAS Model) to the MEXT ground deposition dataset (decay corrected to 14 June 2011)

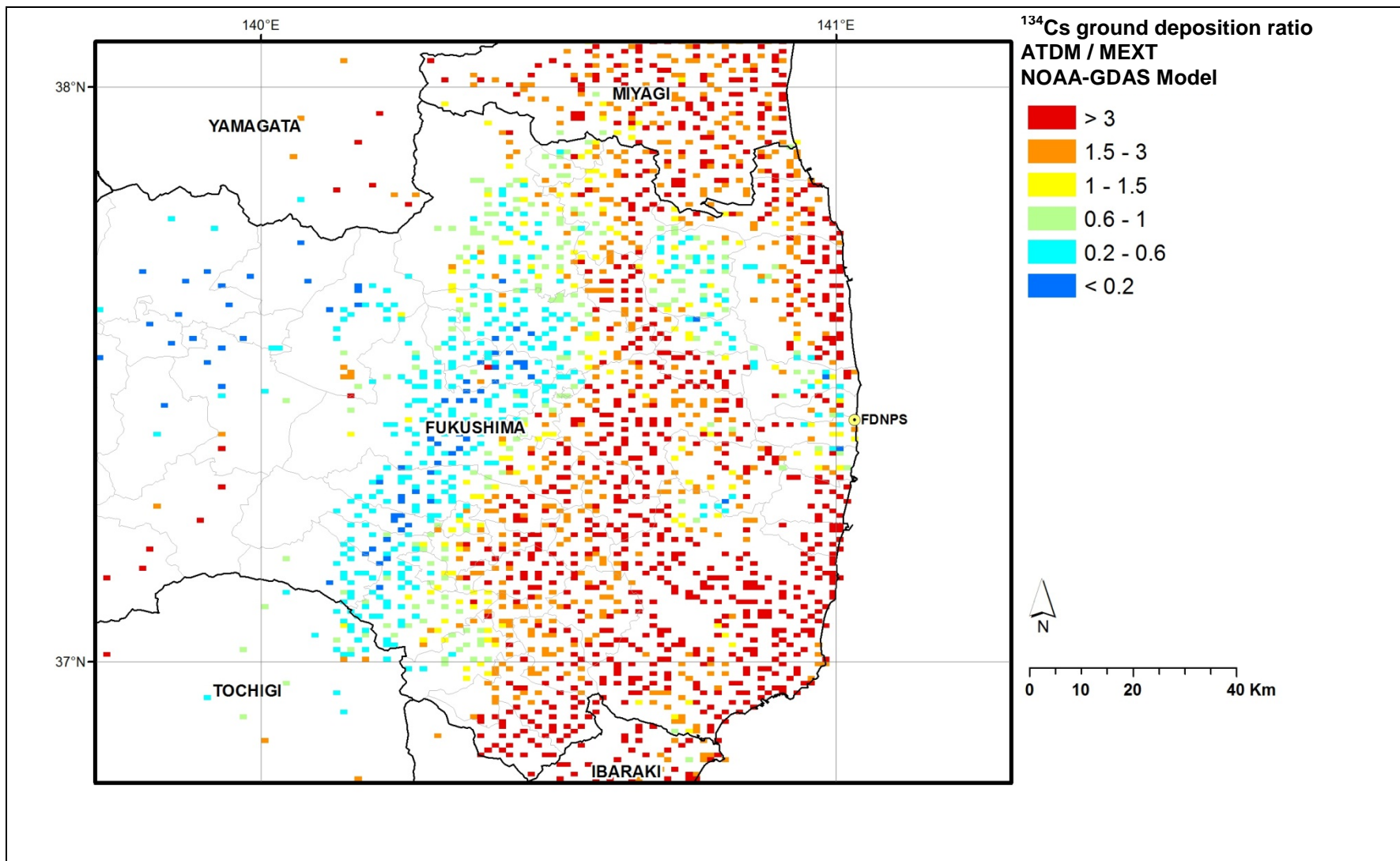


Figure VII. Ratio of the ^{131}I ground deposition densities derived from atmospheric transport, dispersion and deposition modelling (NOAA-GDAS Model) to those of the MEXT ground deposition dataset (decay corrected to 14 June 2011)

