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Study reveals that substantial local nitrogen pollution is caused by foreign demand

First-ever global map of nitrogen footprint shows that roughly a quarter of global nitrogen emissions are caused by demand from consumers in other countries, including Japan.

A new study by researchers at Yokohama National University's Graduate School of Environment and Information Sciences (YNU-GSEIS) and colleagues has found that large amounts of reactive nitrogen emissions are generated worldwide during the production of food, textiles and clothing that are exported mainly to Japan and other developed countries, by linking nitrogen emissions and economic data for 188 countries.

Doctoral candidate **Azusa Oita**, the lead author of the study and a member of YNU's Center for Oceanic Studies and Integrated Education, who has worked with Prof. Manfred Lenzen's group at the University of Sydney, **Dr. Shota Nishijima** of YNU-GSEIS, and Dr. Keiichiro Kanemoto of Kyushu University, said that their findings provide important support for international collaboration on reactive nitrogen emissions reduction and international integrated nitrogen management.

The title of the new study is "Substantial nitrogen pollution embedded in international trade." The study was published online 25th January, 2016 in *Nature Geoscience* and is available here:

<http://dx.doi.org/10.1038/ngeo2635>

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