

HAQAST Update22

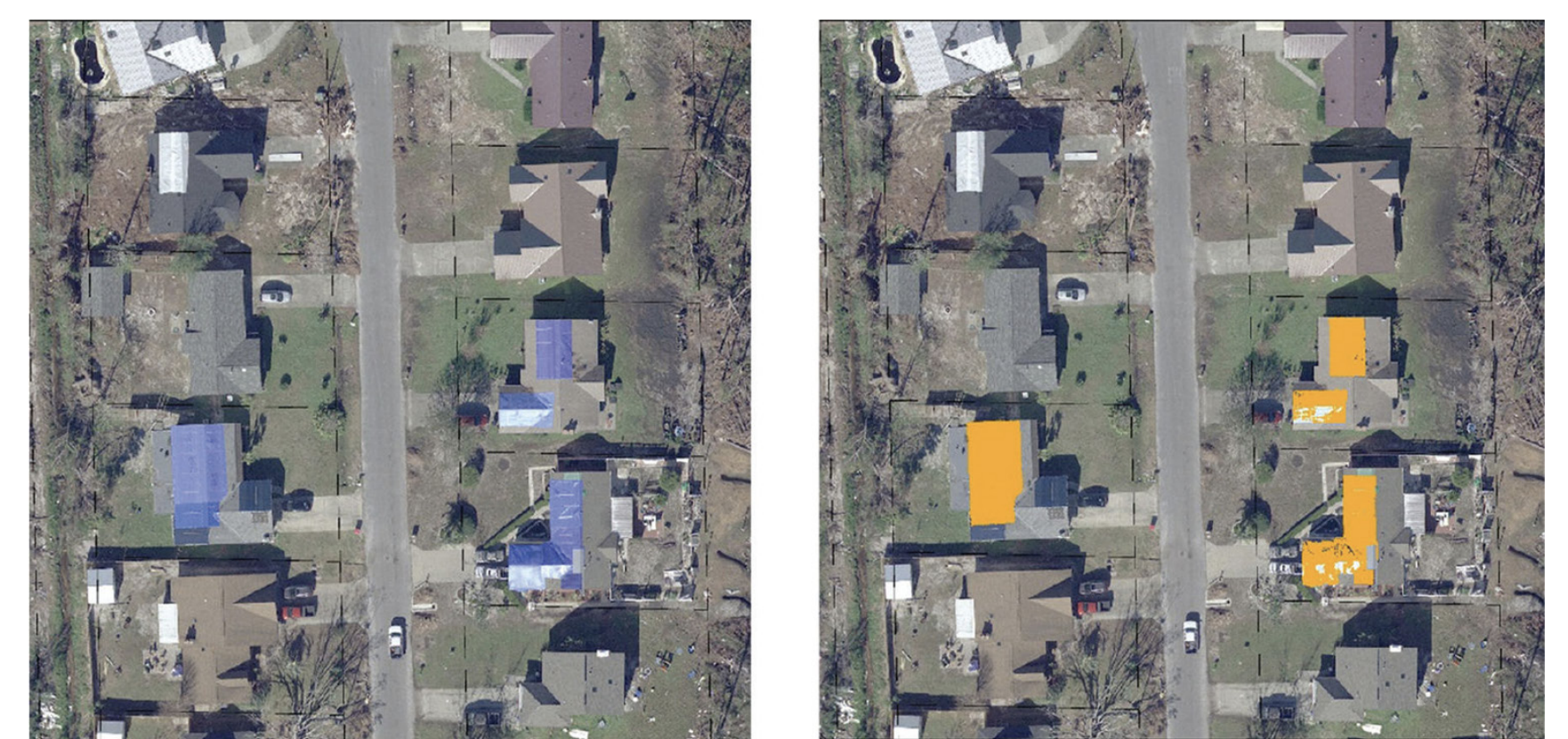
HAQAST Online and Engaged



- Update22 was scheduled as an in-person meeting, but an upswing in COVID led to a virtual meeting.
- Making the most of our online format, we were able to engage new audiences.

Satellite Data for Disasters

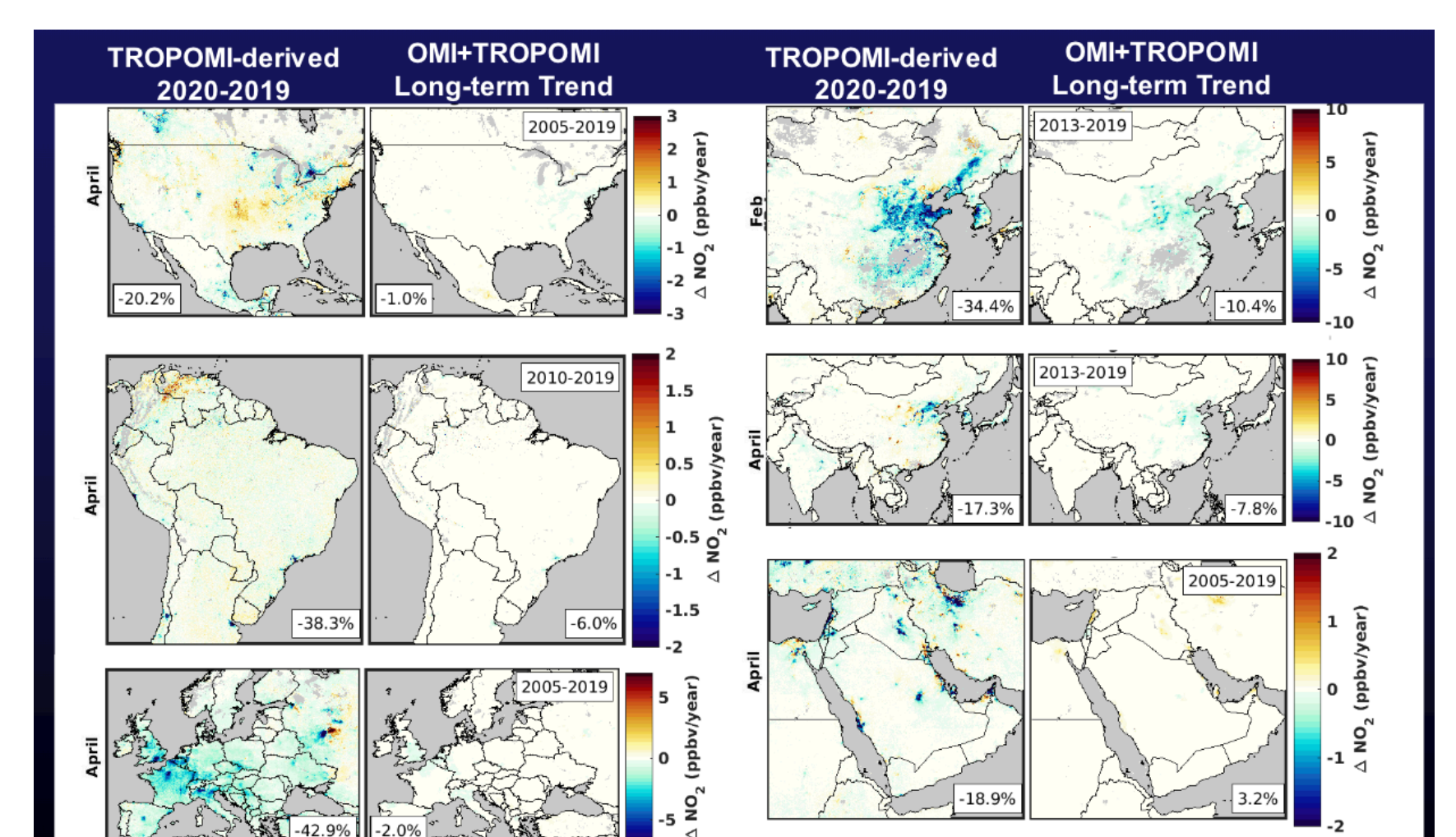
- Wildfires, dust storms, volcanic eruptions, extreme heat, and more - satellite data offers a powerful lens to understand and respond to disasters. Update22 meeting addressed these high-impact applications of satellite data, considering the role for Earth Observations to support forecasting, decision-making during disasters, and planning to mitigate risk.
- HAQAST Member Chris Uejio presented early work, later published as Gonsoroski et al., 2023, classifying roof damage in the Florida Panhandle impacted by Hurricane Michael in 2018. The study aimed to provide a cost-effective complement to on-the-ground damage assessments.



Unaltered aerial photograph (left) and results of roof damage classification overlaid in orange (right) in Florida. Image by Gonsoroski et al., 2023.

Tracking COVID-19 Impacts on Air Quality

- Lockdowns in 2020 in response to COVID-19 changed human activity and air emissions around the world. Evaluating these air quality changes, as detected with satellite data, was a common theme of the Update22 meeting.
- HAQAST Member Randall Martin spoke about the reduction of surface NO₂ across the world during COVID-19 lockdowns as a result of decreased economic activity (right).



Across the world, OMI and TROPOMI satellite data reveal decreases in surface NO₂ during COVID-19 lockdowns. Graphic by Cooper et al. (2022), presented by Randall Martin.

Learn more about the meeting:

