

RIO GRANDE DO SUL

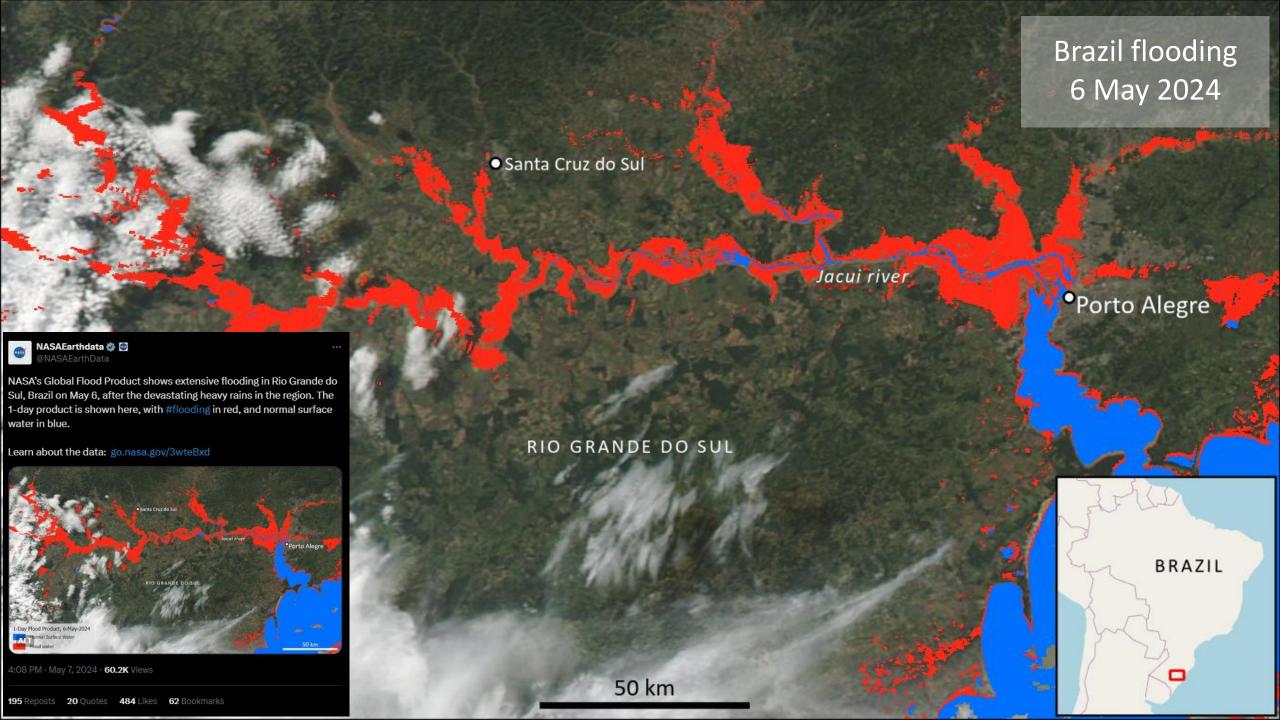
LANCE UWG 13 June 2024

Dan Slayback^{1,2}

(dan.slayback@nasa.gov)

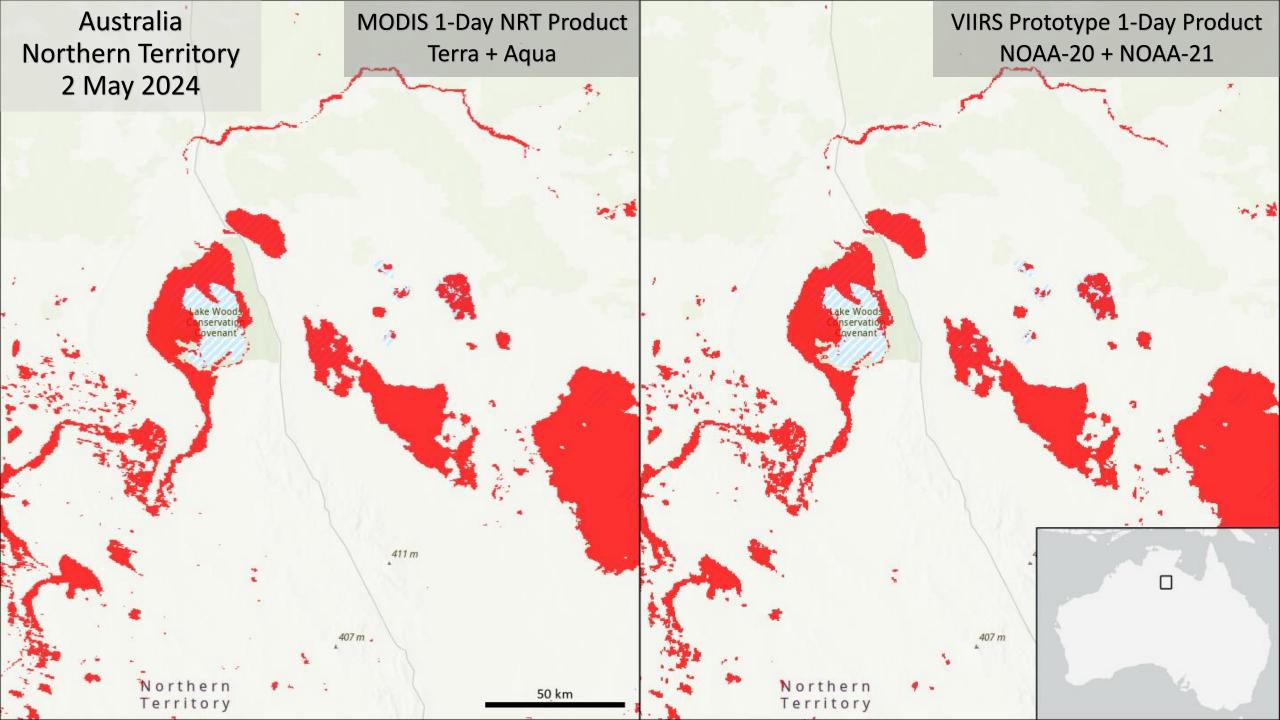
Diane Davies^{1,2}, Sadashiva Devadiga¹, Ranjay Shrestha^{1,2}, Tian Yao^{1,2} ¹NASA GSFC, ²SSAI

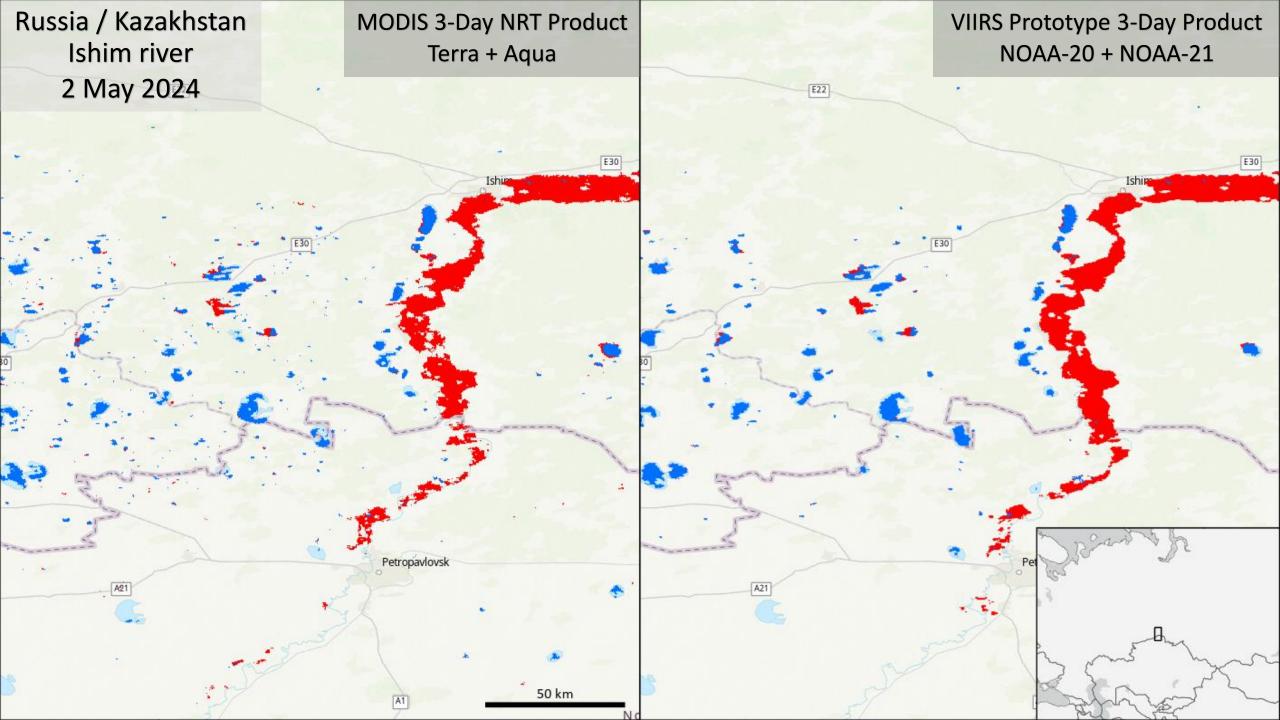
50 km

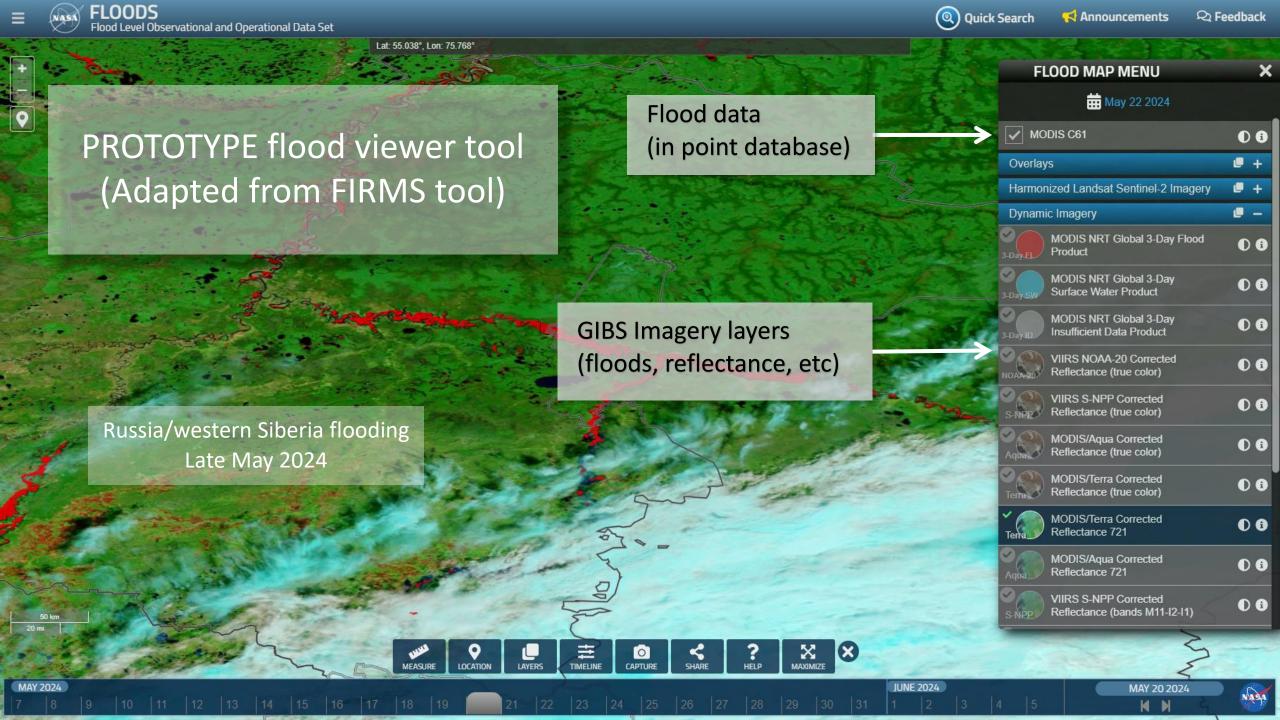


Flood Product Updates:

- Product "Release 1" published April 2024, including:
 - Updated thresholding
 - Significant reduction in false-positives at high latitudes
 - Updated Reference Water mask
 - Switched from original MOD44W land/water mask (increasingly out of date), to the new yearly MOD44W product
 - Improves accuracy of flood vs surface water reporting in areas where new reservoirs have been constructed, or other changes to surface water distribution have occurred
 - Additional tiles added to production
 - Allows monitoring of lakes and flooding at high latitudes (from 70-80° N)
- VIIRS product
 - Science code is complete, only pending configuration of which VIIRS datastreams to include (among SNPP, NOAA-20, NOAA-21)
 - Currently evaluating combinations, and comparing to MODIS product
 - Results will be presented in a report / proposal to begin production of a VIIRS flood product
 - All PGE code modules have been deployed and tested
 - With approvals, potentially could release product by end of 2024







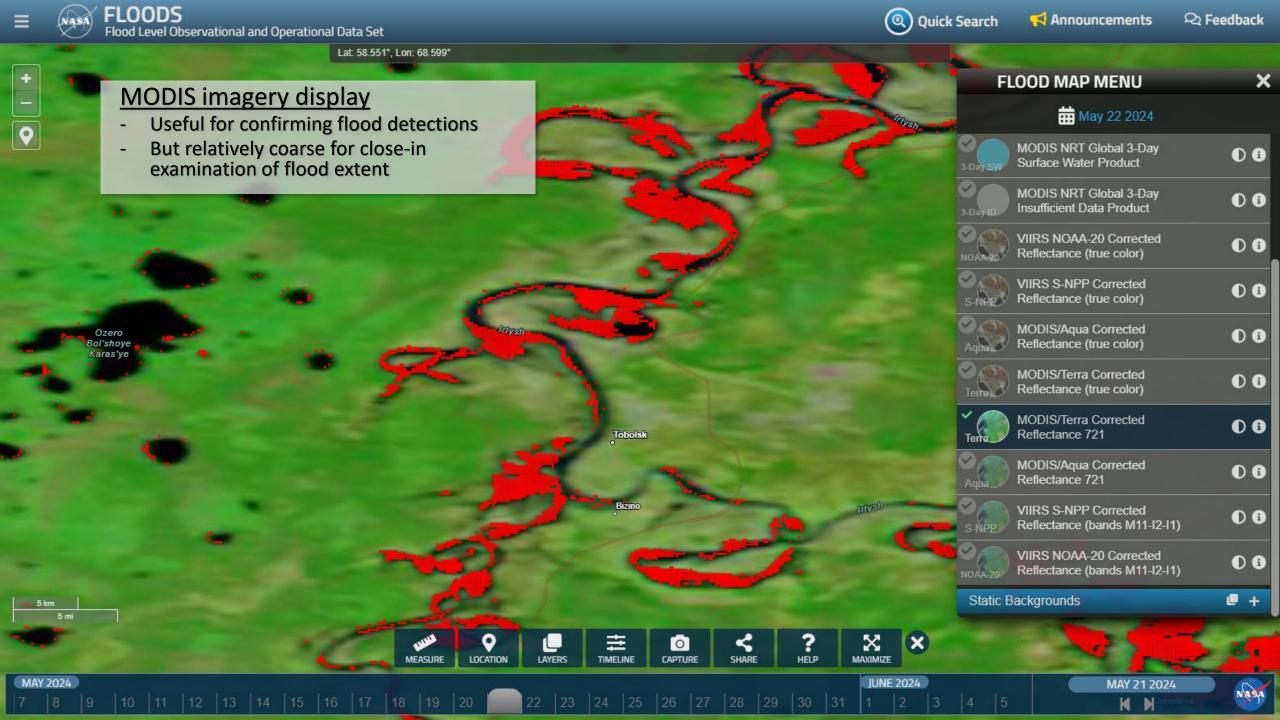










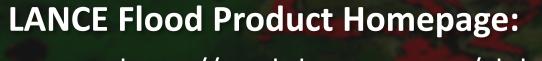






Flood viewer tool prototype

- Adapted from FIRMS viewer
 - Flood data loaded as points into point database
- Unique Capabilities:
 - Visually highlights floods (due to point nature of database)
 - Facilitates product QA/QC
 - Landsat/Sentinel-2 available for overlay, aiding evaluation
 - Potential to feed flood alert systems
- If fully supported and deployed publicly, has potential to fill a gap for more advanced users
 - Add access to 1-day product
 - Add additional flood products (NOAA, Copernicus, etc)
 - Add additional relevant layers (historical events or summaries, etc)



https://earthdata.nasa.gov/global-flood-product

- User Guide / FAQs
- Worldview links
- Download info

Questions: dan.slayback@nasa.gov