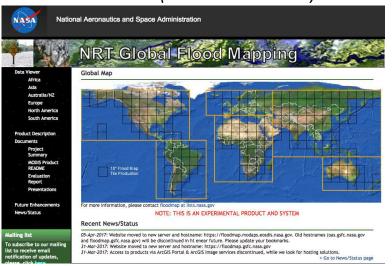
Satellite Earth Observation(EO)-based flood mapping

- 1. State-of-the-art in EO based flood mapping
 - Automated (daily) products: MODIS LandSat (on demand) VIIRS EnviSat ⁺ Sentinel-1
- 2. State of the usability of EO flood mapping
- 3. Availability of EO-based flood map products
- 4. Integration of map products of different temporal and spatial scales
- 5. Missing information in EO based flood mapping
- 6. Determine users & how to better involve them in developing a EO-based monitoring system
- 7. Validation of EO-based products, Communication of uncertainty of EO-based flood mapping?
- 8. Availability of spaceborne sensors
- 9. Visualize flood maps



MODIS & LandSat (Fritz Policelli et al.)

MODIS/LandSat/SAR/etc (Bob Brakenridge et al.)

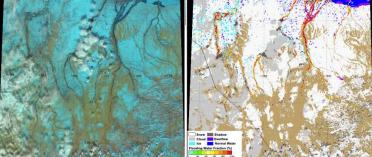
Whole Earth image from [HT's Planetary Pixel Emporium



River Watch

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VIIRS (Bill Sjoberg et al.)



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Application: Near real-time flood extent monitoring.

- ✓ Coverage: any regions between 80° S and 80° N.
- ✓ Spatial resolution: 375-m
- ✓ Flood types: supra-veg/bare soil flood and supra-snow/ice flood.
- ✓ Flood maps: In a flood map, there are cloud, snow, River/lake ice, shadow (cloud shadow and terrain shades), supra-snow/ice flood cover, normal open water and flooding water fractions of supra-veg/bare soil floods. 18

ENVISAT – Sentinel (Patrick Matgen et al.)

Envisat 02/01/2003 22h18

