



gaps to be filled
~~New~~ mission needs
to support water quality applications

Communication with stakeholders

- Improved interaction with the communities we want using our satellite data

For missions:

- Stakeholders (should) define mission objectives
- Objectives need to be cleanly translated into science products, then **precisely translated into radiometric & observatory engineering capabilities**

For stakeholders:



- **What is good enough? What do you really need?** Uncertainty requirements translate directly into radiometric & observatory engineering capabilities.



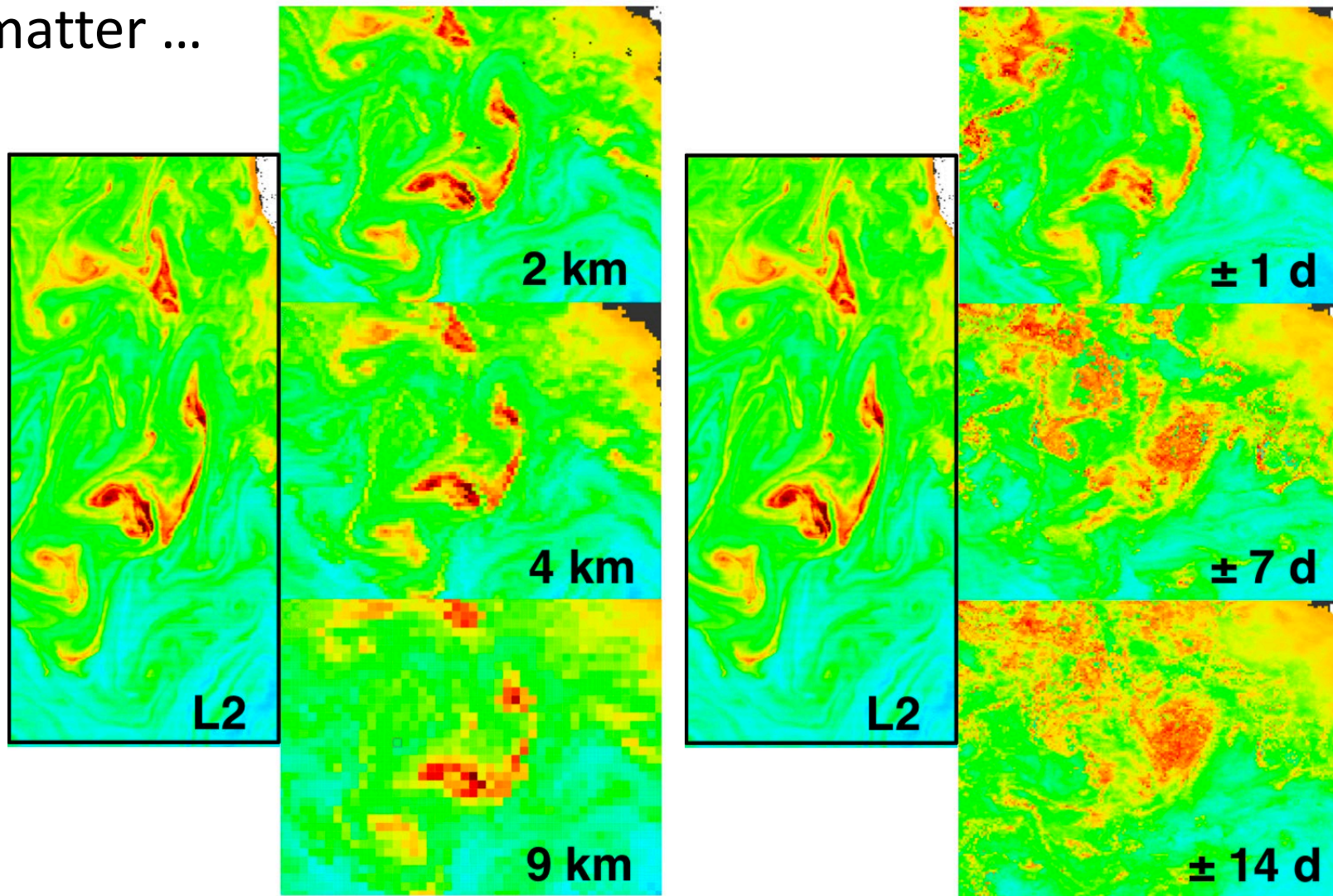
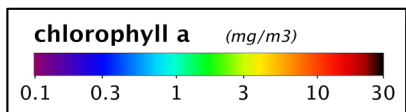
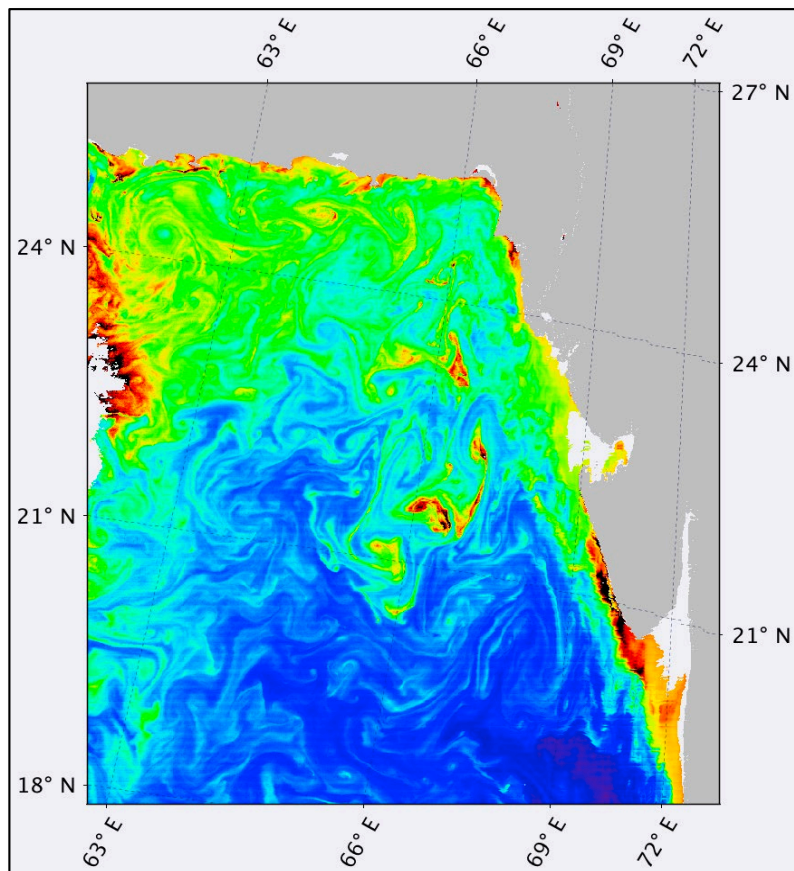
“Sometimes RGB is good enough ...”



Communication with stakeholders

- Mutual appreciation of the satellite consumer's market that has emerged
- Sustainable mission applications & Early Adopters programs
- Sustainable training programs
- Accessible & open data
- Compromise & mutual appreciation for the need to do so

choices in compositing matter ...



Datasets

- Many missions carry success-defining uncertainty requirements
- Assessment of core remotely-sensed products requires high quality truth
 - “direct validation”
 - 1) Adherence to community-defined protocols
 - 2) Inclusion of uncertainties + metadata
 - 3) High volume, particularly just after launch, particularly radiometry
- Assessment of data product algorithms requires “complete” data sets
 - “proxy validation”
 - #1 and #2 above plus
 - 4) Co-located data for algorithm development & verification



Datasets

- Knowledge (e.g., SOPs) sharing to support field work



Water quality validation: new mission needs

