POLYMER validation update

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Validation method

- Validation results updated with 3rd reprocessing:
  - Polymer results updated
  - MEGS level 2 updated
- Using full Mermaid database: NOMAD, SIMBADA, Palgrunden, EastEngChannel, AAOT, AbuAlBukhoosh, GustavDalenTower, NWBalticSea, PlumesAndBlooms, MOBY, HelsinkiLighthouse, CaliforniaCurrent, Algarve, MVCO, BOUSSOLE, BristolIrishSea
- Two validation datasets:
  1) Set 1 (No glint): no HIGH_GLINT and no PCD_1_13
  2) Set 2 (Glint, Polymer only): HIGH_GLINT or PCD_1_13
Validation of the reflectances at 443nm (global)
Global validation – water reflectance

Accuracy

Precision

bias (sat - insitu)

RMSE

wavelength (nm)

wavelength (nm)
Boussole
Boussole
MOBY
Conclusion

- Spatial coverage compared to standard processing: +100%
- Good precision and accuracy after 2000 match-ups
- No vicarious calibration
- Polymer is being evaluated in the Ocean Colour CCI Round-Robin
- Applied in NRT applications at D+1 in several projects (ICESCAPE, ship campaigns, SHIVA FP7 project, fisheries)
- Work in progress: application to MODIS, SeaWiFS and GOCI