

POLYMER validation update

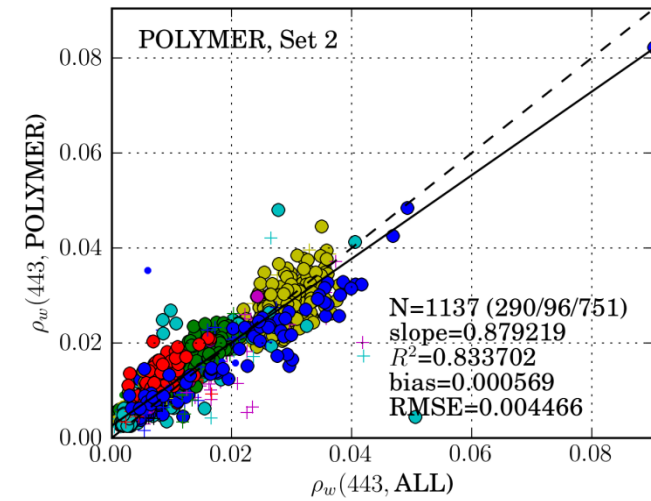
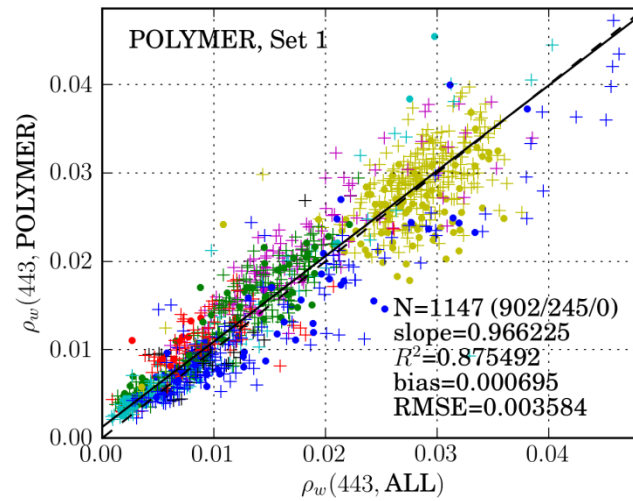
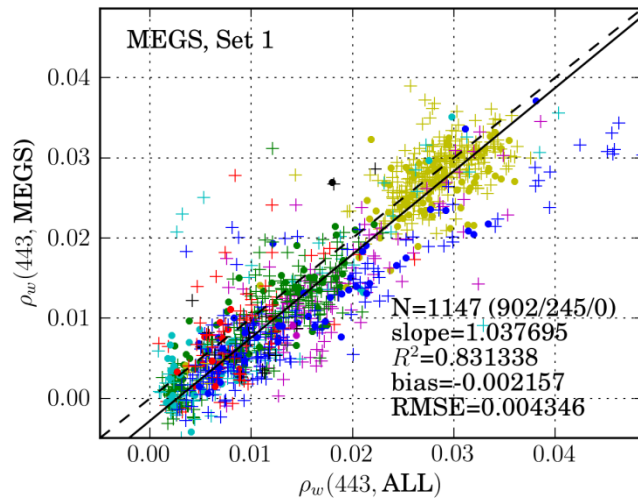
François Steinmetz, Pierre-Yves Deschamps and Didier Ramon



Validation method

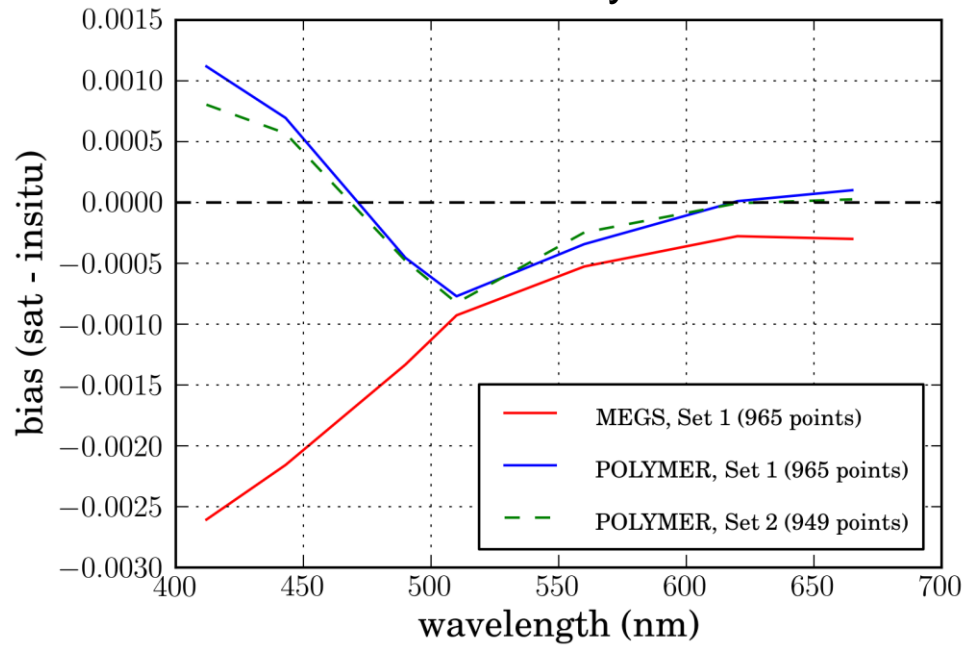
- Validation results updated with 3rd reprocessing:
 - Polymer results updated
 - MEGS level 2 updated
- Using full Mermaid database: NOMAD, SIMBADA, Palgrunden, EastEngChannel, AAOT, AbuAlBukhoosh, GustavDalenTower, NWBalticSea, PlumesAndBlooms, MOBY, HelsinkiLighthouse, CaliforniaCurrent, Algarve, 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)

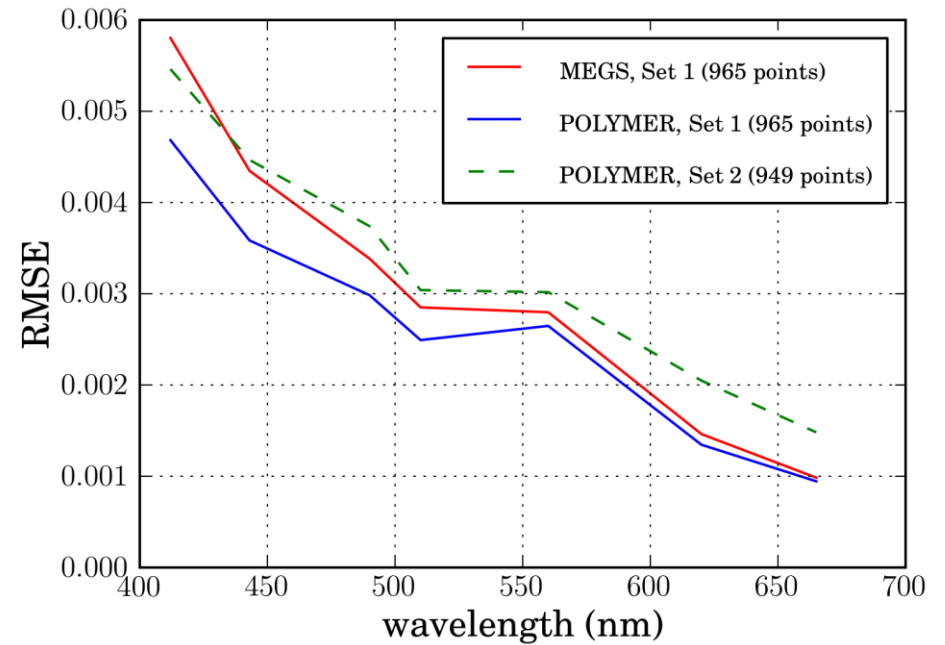


Global validation – water reflectance

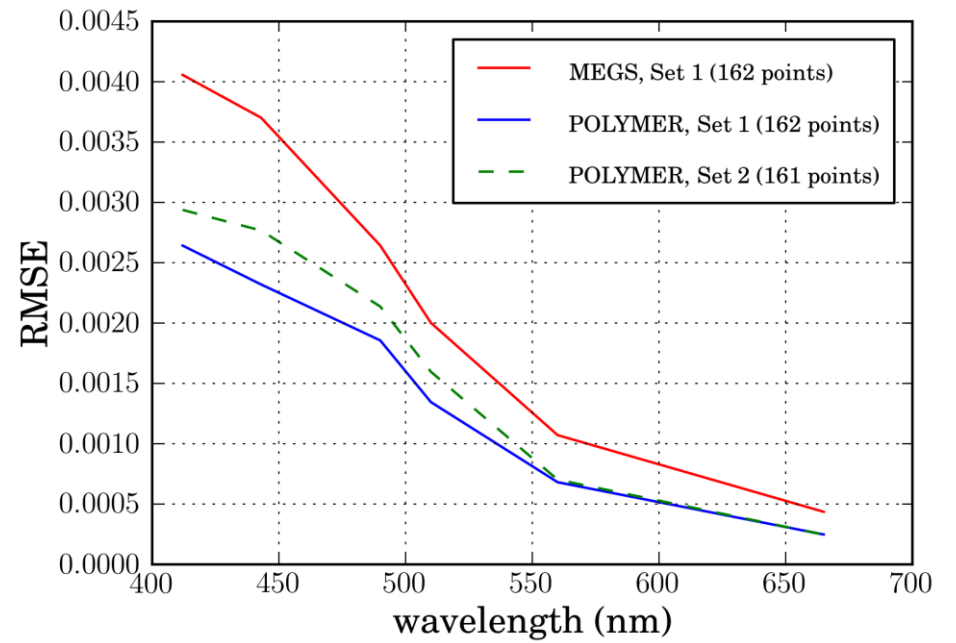
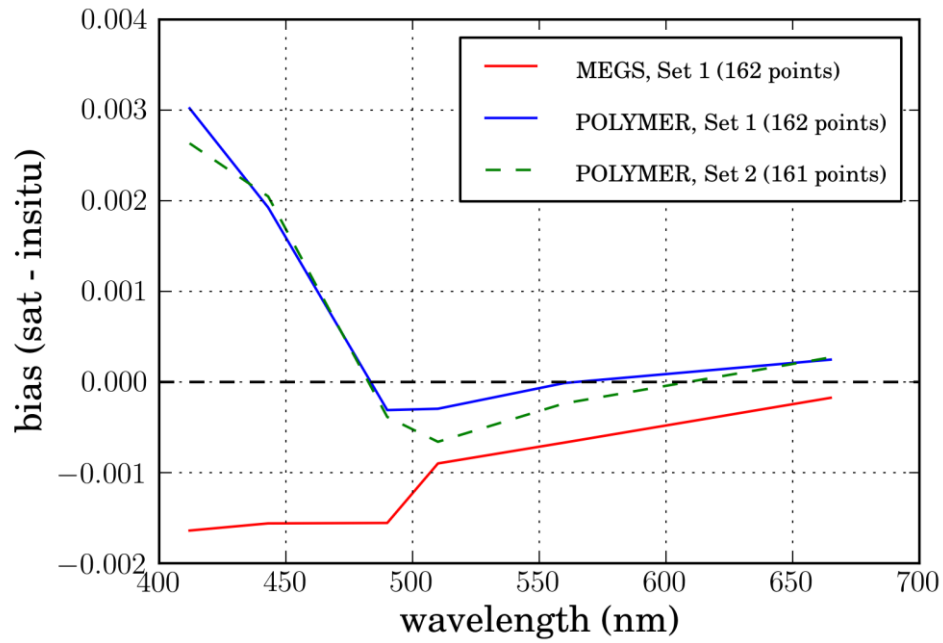
Accuracy



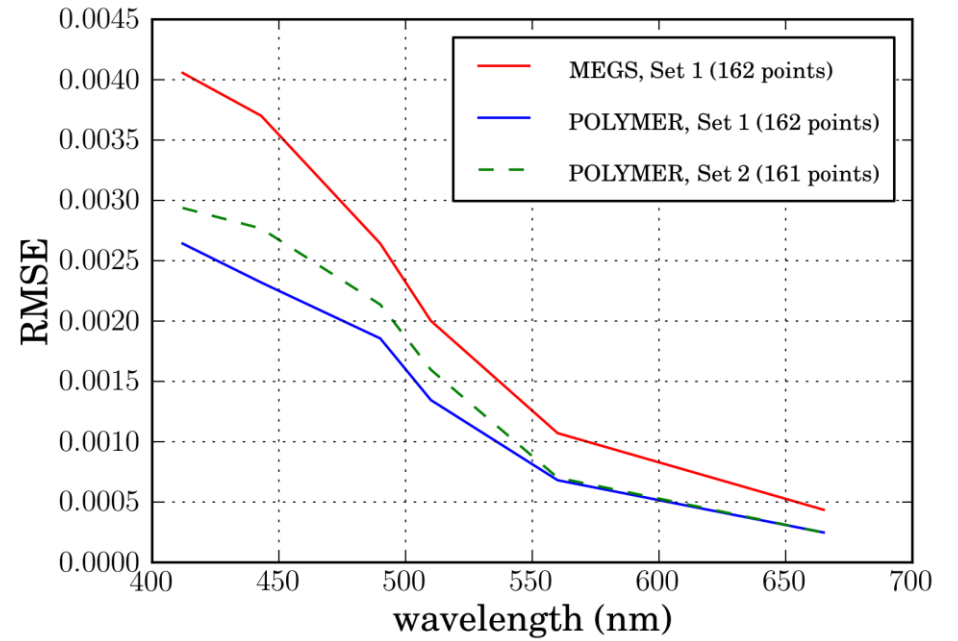
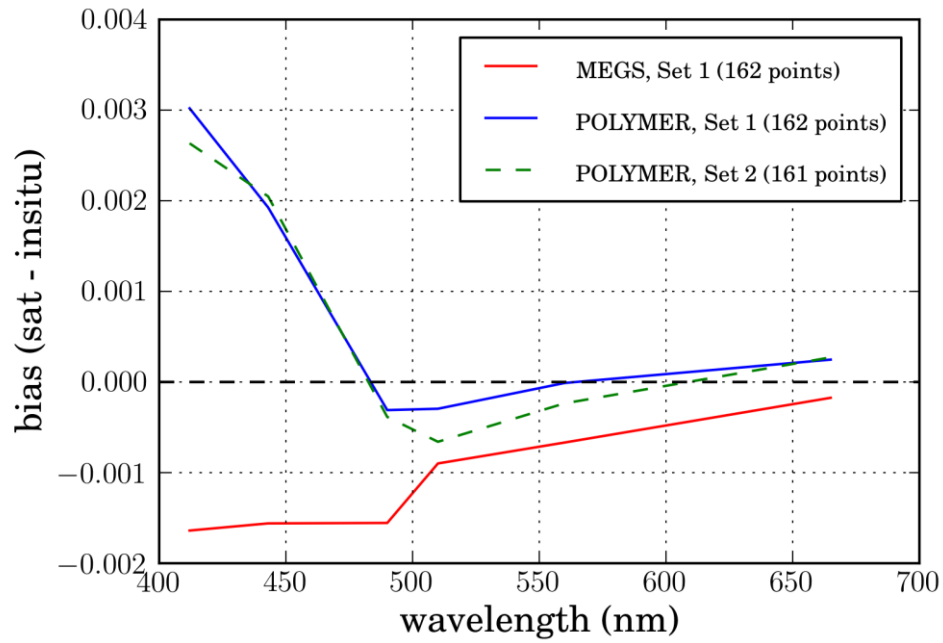
Precision



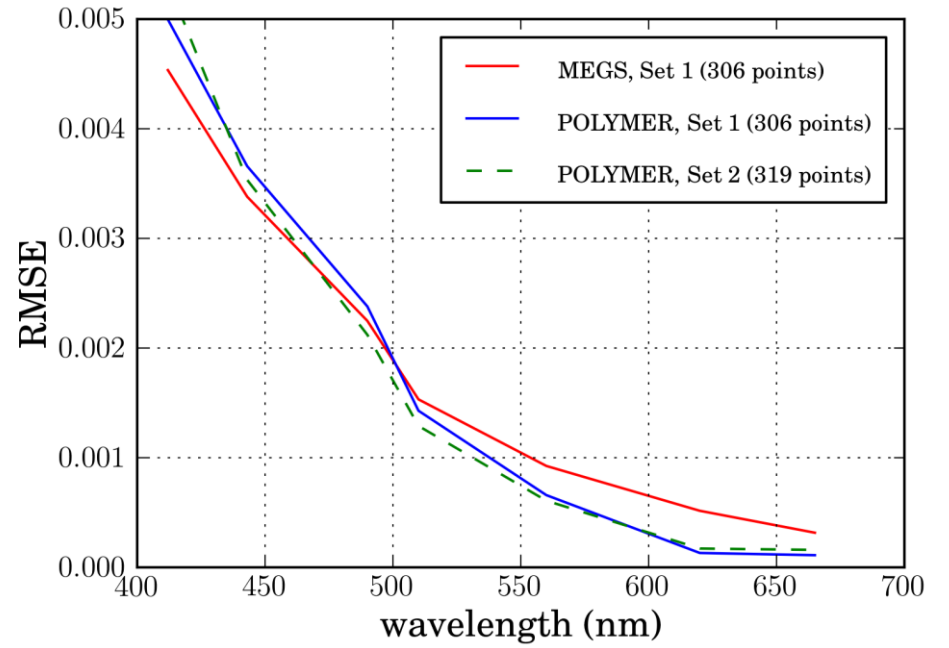
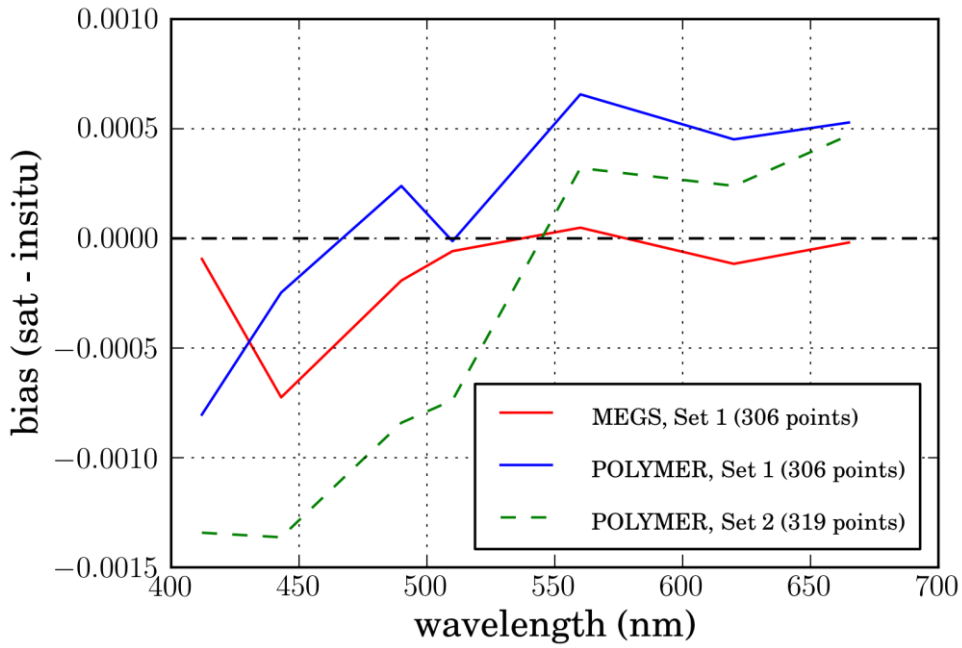
Boussole



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