

Checklist for Reporting results of tests and validations and bugs of MERIS Case2R BEAM Plugin

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1 General information

Tester and Institute:

Date of report:

Repeat the following items for each scene tested

scene ID:

Pixel positions or transect file extract:

Parameter file used, e.g. with and without polarisation correction, smile correction, inverse NN, LvMq iteration, used neural networks

Provide general information under which conditions good or bad results/agreement was found

2 Installation, usage and Documentation of program

2.1 ATBD

2.2 User Manual

2.3 This test check file

2.4 Installation

2.5 Handling of program

3 Verification test without specific ground truth

Check and list environmental conditions (if available): wind, hor. visibility, or aerosol optical properties, surface pressure, clouds incl. thin cirrus, etc.

3.1 Flags

Check under which conditions flags are switched on

3.2 Negative reflectances

Check under which conditions negative reflectances occur

3.3 Land and cloud detection

check performance

3.4 Comparison with MERIS MEGS 7.4 or IPF 5 products incl. algal_1

Compare results with corresponding standard L2 data of the same scene

3.5 Check separation between path radiance and water leaving radiance reflectance

Check transects which cross plumes of turbid water or fronts and check if water leaving radiance reflectance remains constant

3.6 Sun glint correction incl. comparison with standard product

Compare transects of L1 toa reflectances with path radiance and water leaving radiance crossing sun glint areas

3.7 Comparison with RLw standard product

Compare RLw with standard product

3.8 Comparison between backward NN and Optimization procedure algorithms

compare the results of the two alternative algorithms

3.9 Any other tests and observations

Describe any other test and results

4 Validation with in situ data (match ups, near match ups)

4.1 Comparison with in situ truth

Report positions of match up data and results

4.2 Comparison with Ferry Box transect data

Describe variables (e.g. fluorescence, turbidity index, discrete water samples etc.), depth of water input