

Regression tests between MKL3 v4.0 and globCOLOUR processor v1.0

Issue 1 revision 0

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Some regression tests consists into comparing scatter plots obtained by using:

1. *MERIS L3 ISIN products at 9 km computed by MKL3 v4.0, MODIS and SeaWiFS SMI products at 9 km downloaded from the NASA Ocean Color web server.*
2. *MERIS, MODIS and SeaWiFS L3 ISIN products at 4 km computed by globCOLOUR v1.0. MERIS L2 products from the second reprocessing (MEGS 7.4.1). SeaWiFS & MODIS L2 products from NASA Ocean Color web server.*

These tests show that the globCOLOUR v1.0 processor results are equivalent to the results obtained by the MERIS MKL3 v4.0 software and NOAA level 3 generation tools.

Two days have been selected: 14/03/2003 and 15/06/2003.

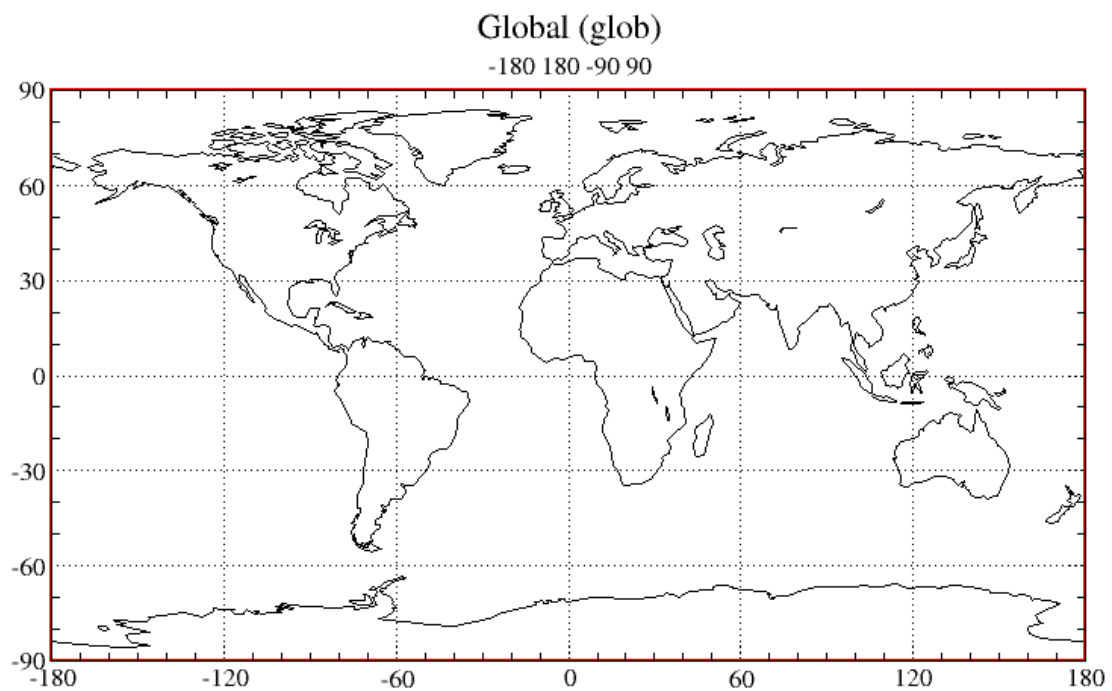
In the comparison tables, the left columns contain plots generated from MERIS MKL3 results and NASA L3 data. The right columns contain plots generated from globCOLOUR processor results (L3 ISIN 4 km products).

Note that in the MKL3 and NASA L3 products, N560 is truncated to 1.27.

MERIS / MODIS / SeaWiFS comparisons

Chlorophyll concentration (CHL1) and nLw (N560/L551/L555)

Global Earth analysis

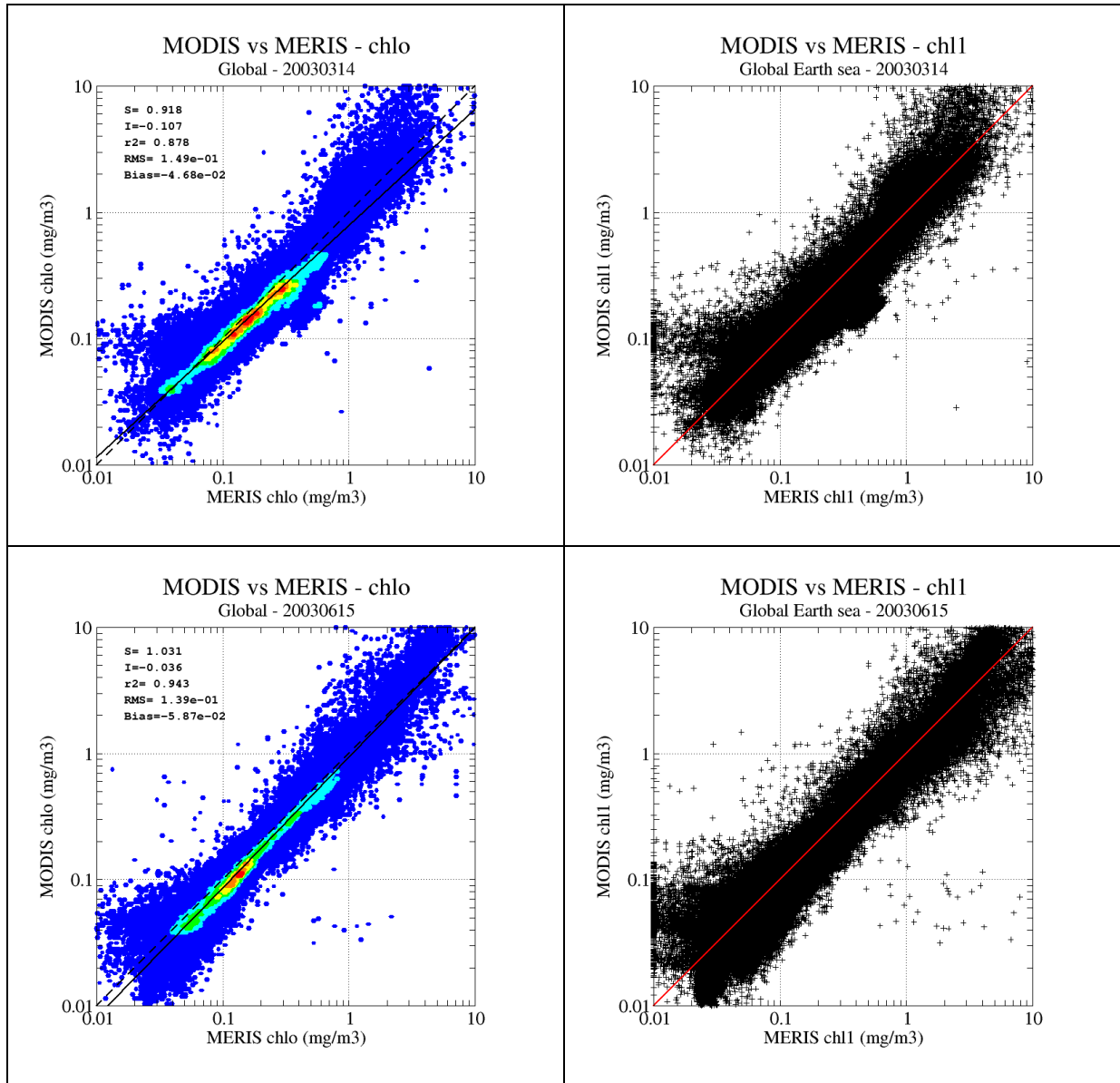


Longitude range: -180° to $+180^{\circ}$

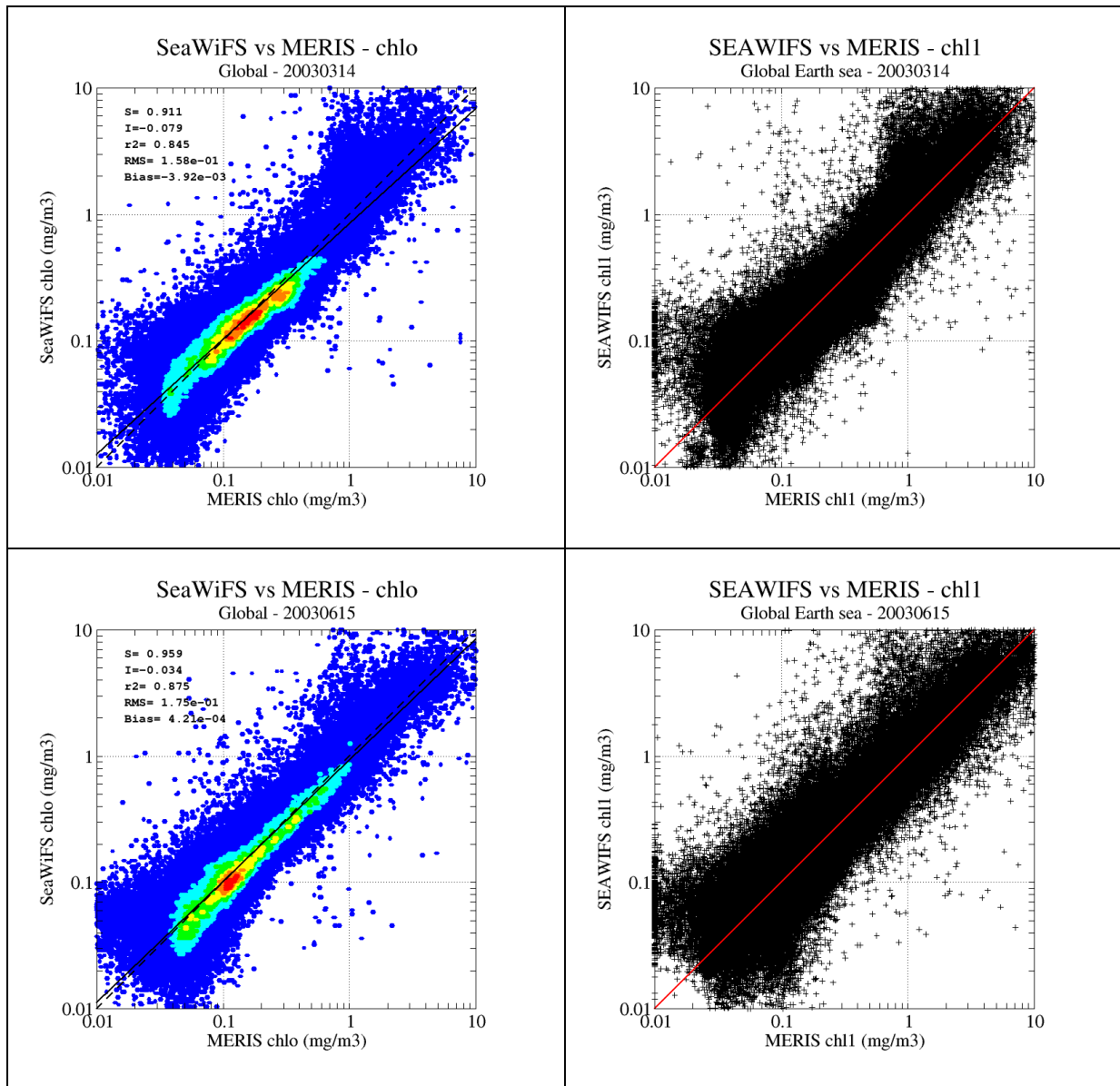
Latitude range: -90° to $+90^{\circ}$

Dates: 14/03/2003, 15/06/2003, 15/09/2003 and 15/12/2003

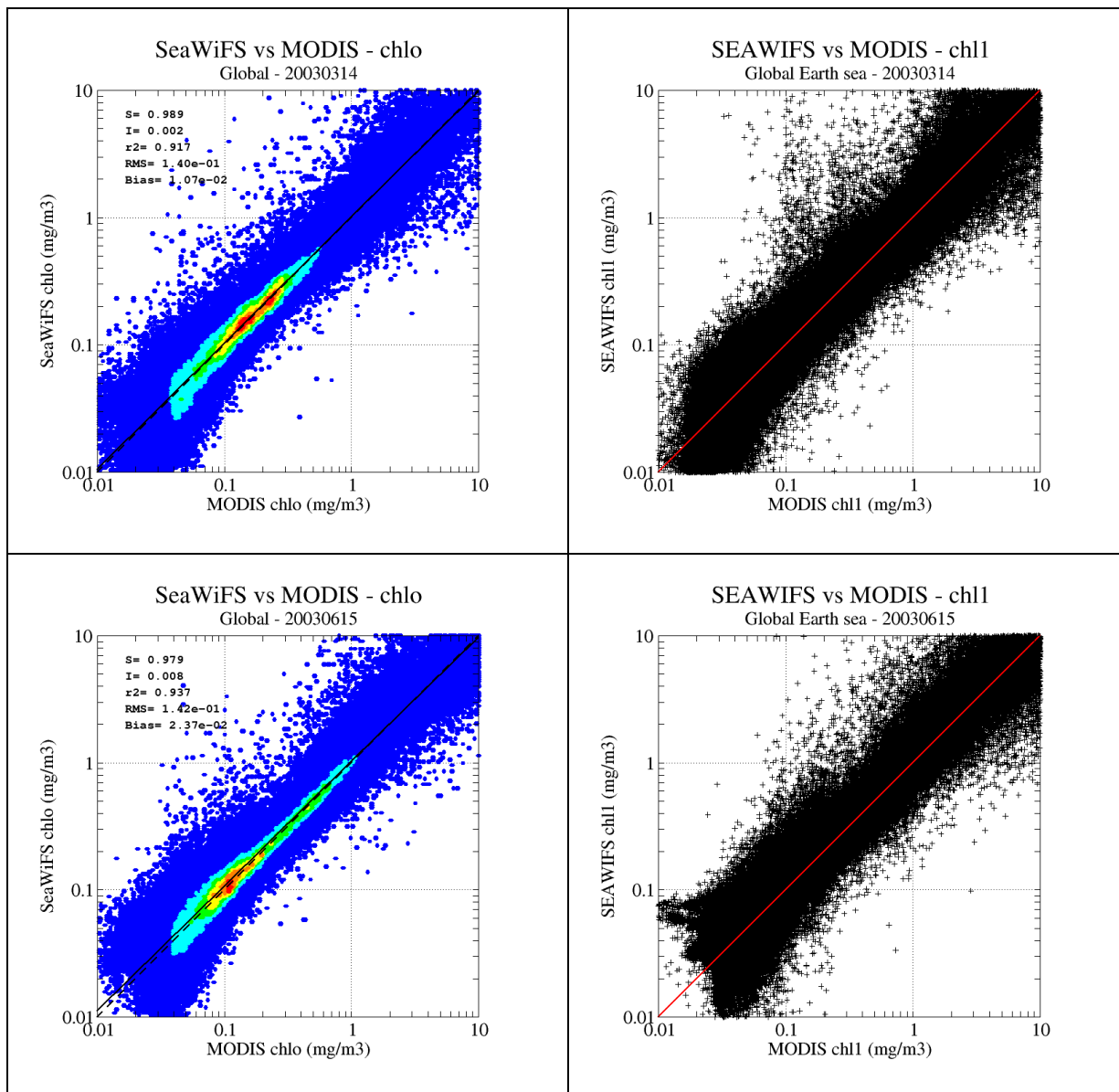
MERIS/MODIS comparison - Chlorophyll concentration - Global Earth analysis



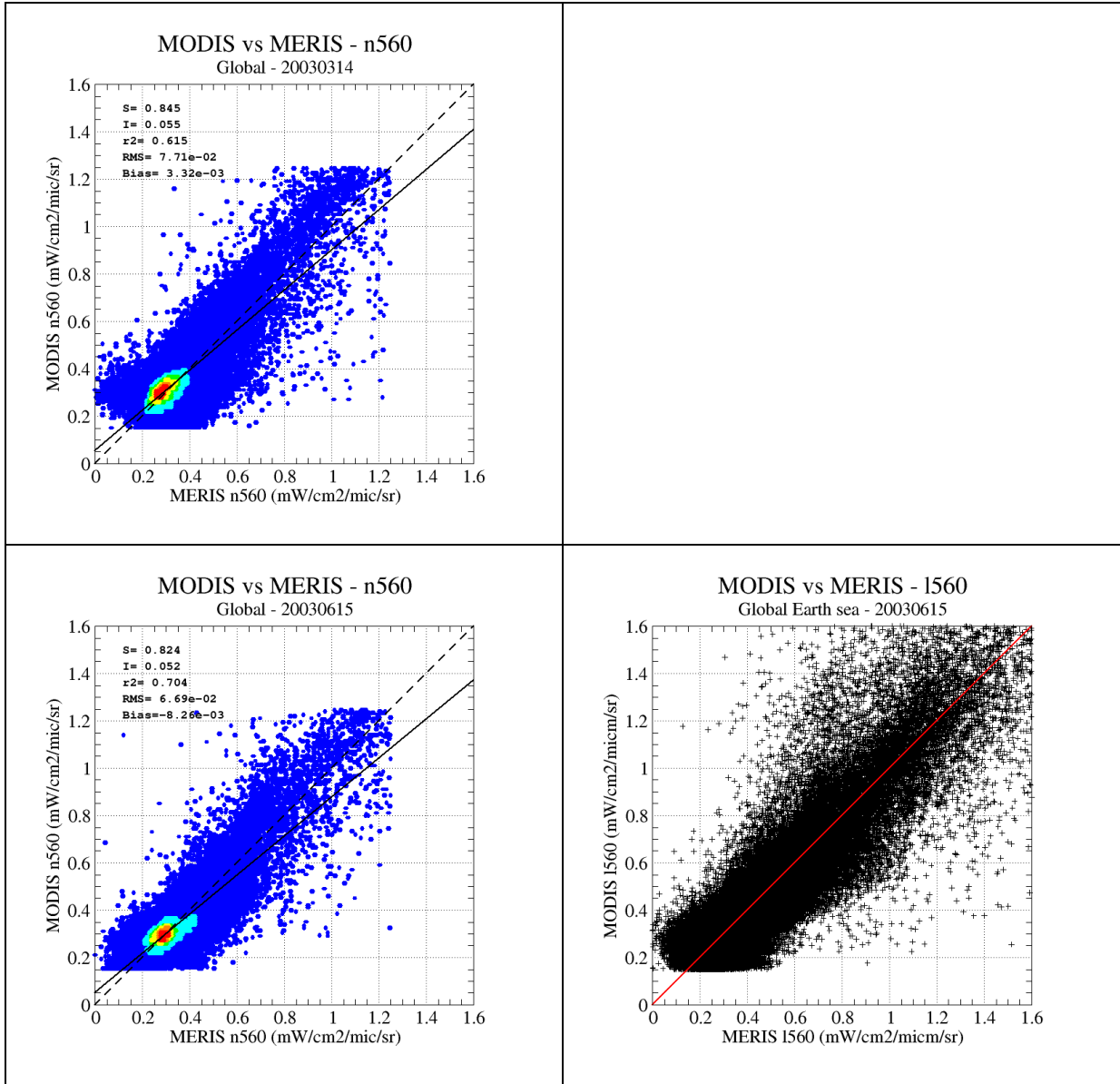
MERIS/SeaWiFS comparison - Chlorophyll concentration - Global Earth analysis



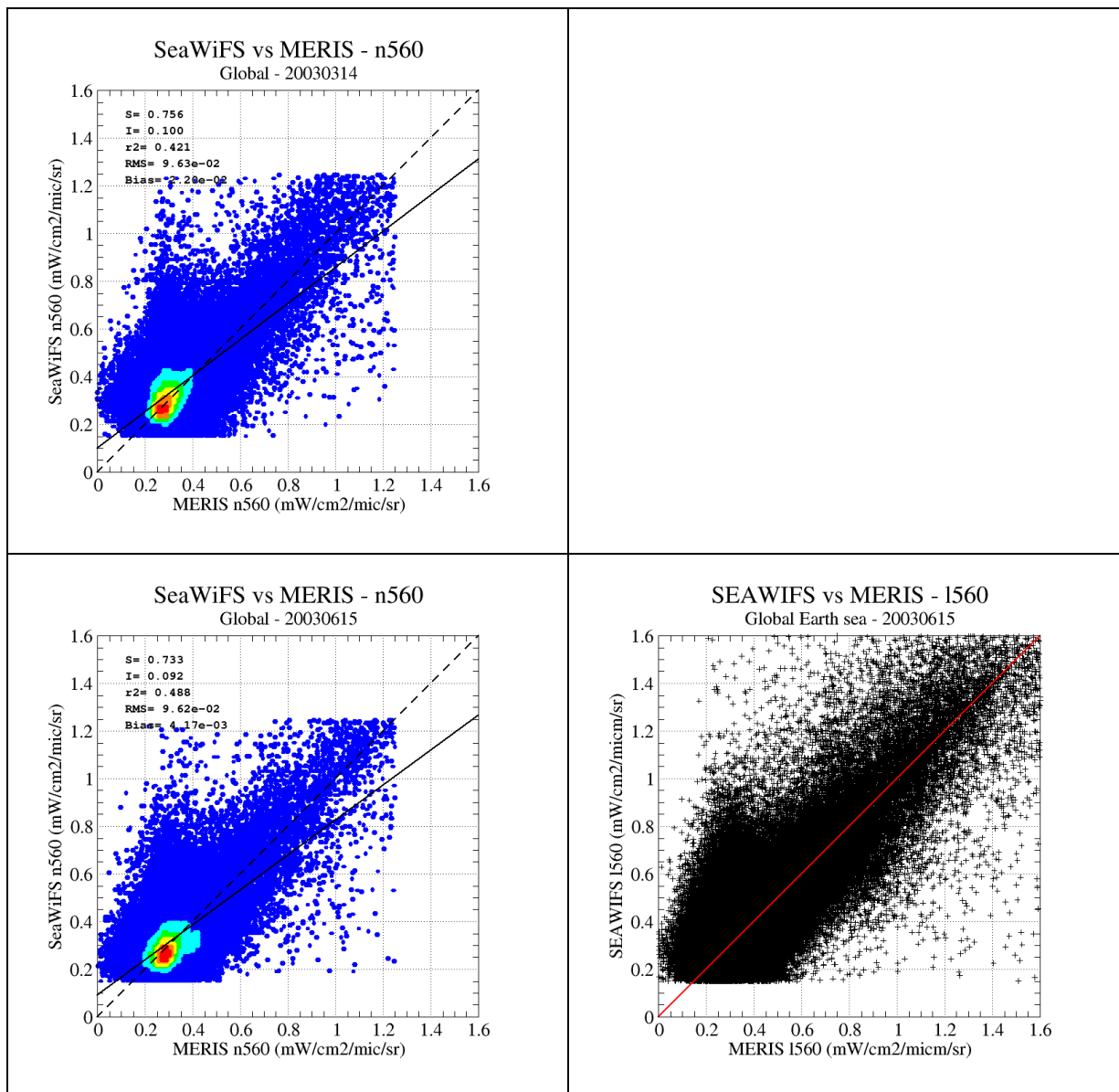
MODIS/SeaWiFS comparison - Chlorophyll concentration - Global Earth analysis



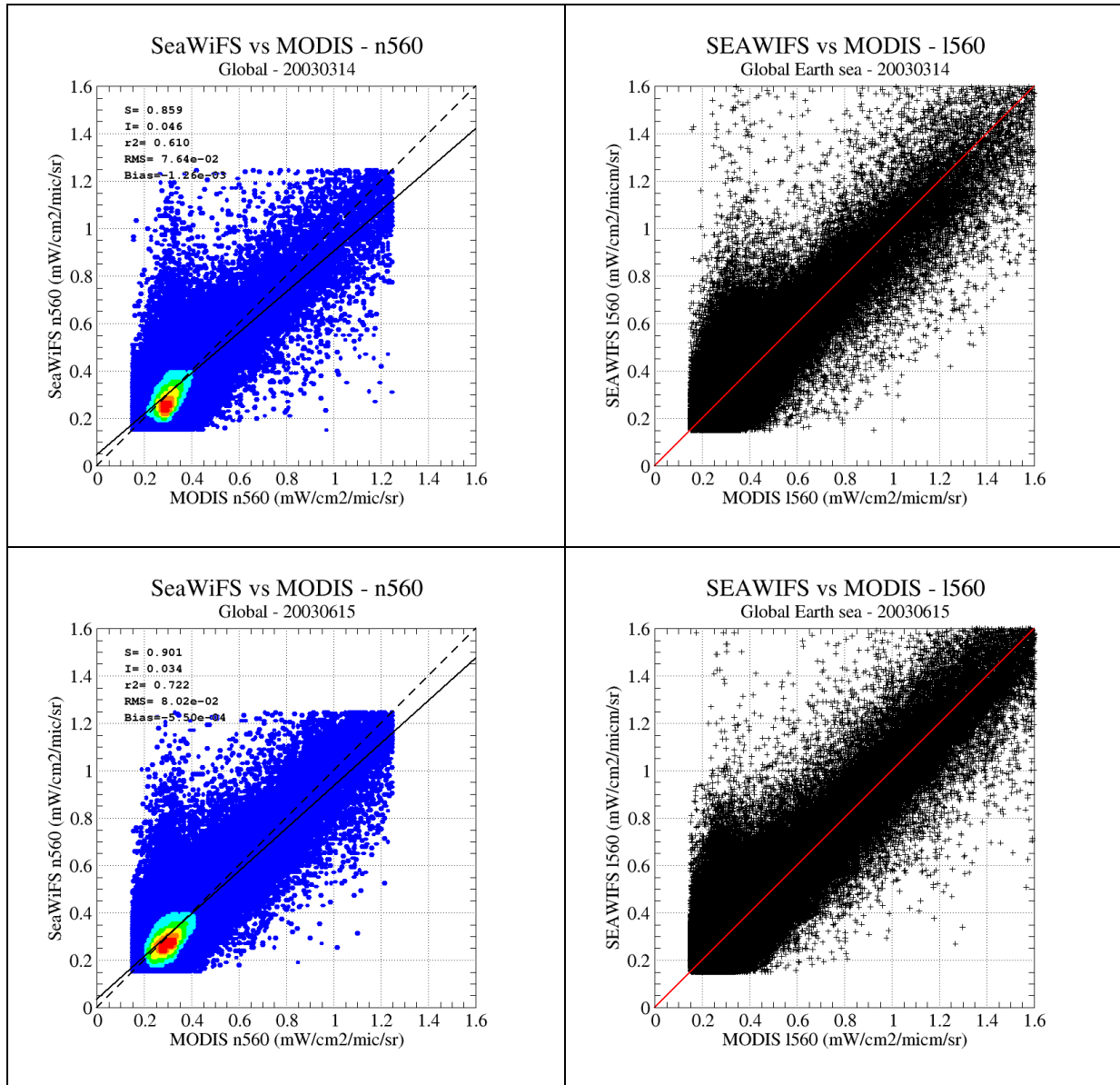
MERIS/MODIS comparison - nLw 560/551 nm - Global Earth analysis



MERIS/SeaWiFS comparison - nLw 560/551 nm - Global Earth analysis



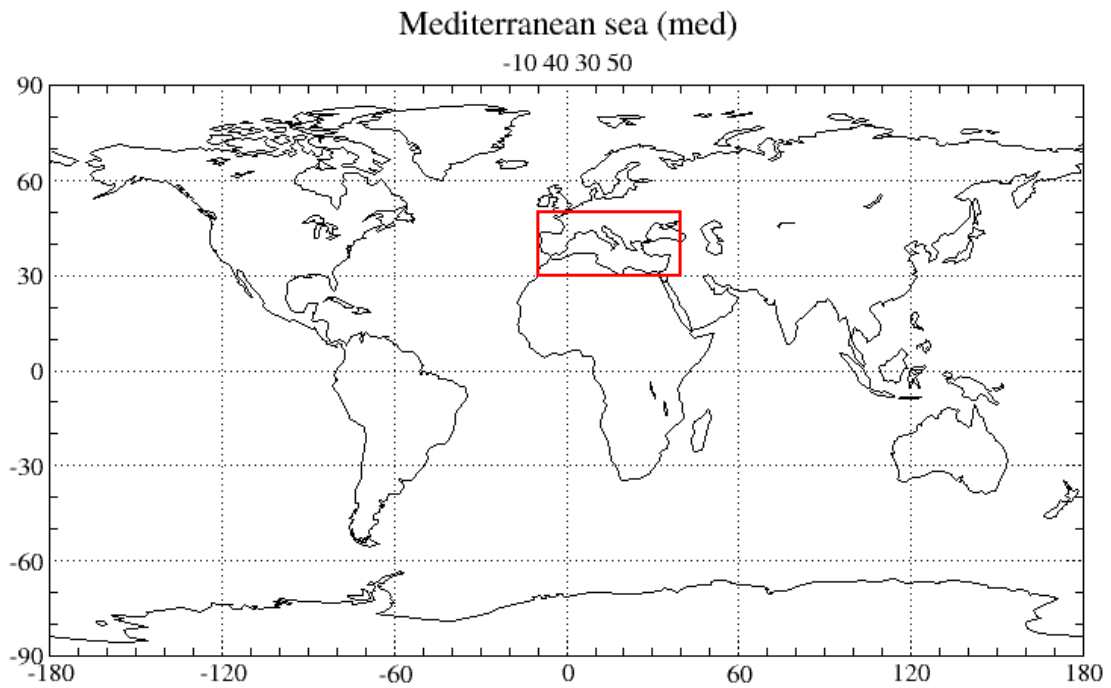
MODIS/SeaWiFS comparison - nLw 560/551 nm - Global Earth analysis



MERIS / MODIS / SeaWiFS comparisons

Chlorophyll concentration (CHL1) and nLw (N560/L551/L555)

Mediterranean sea

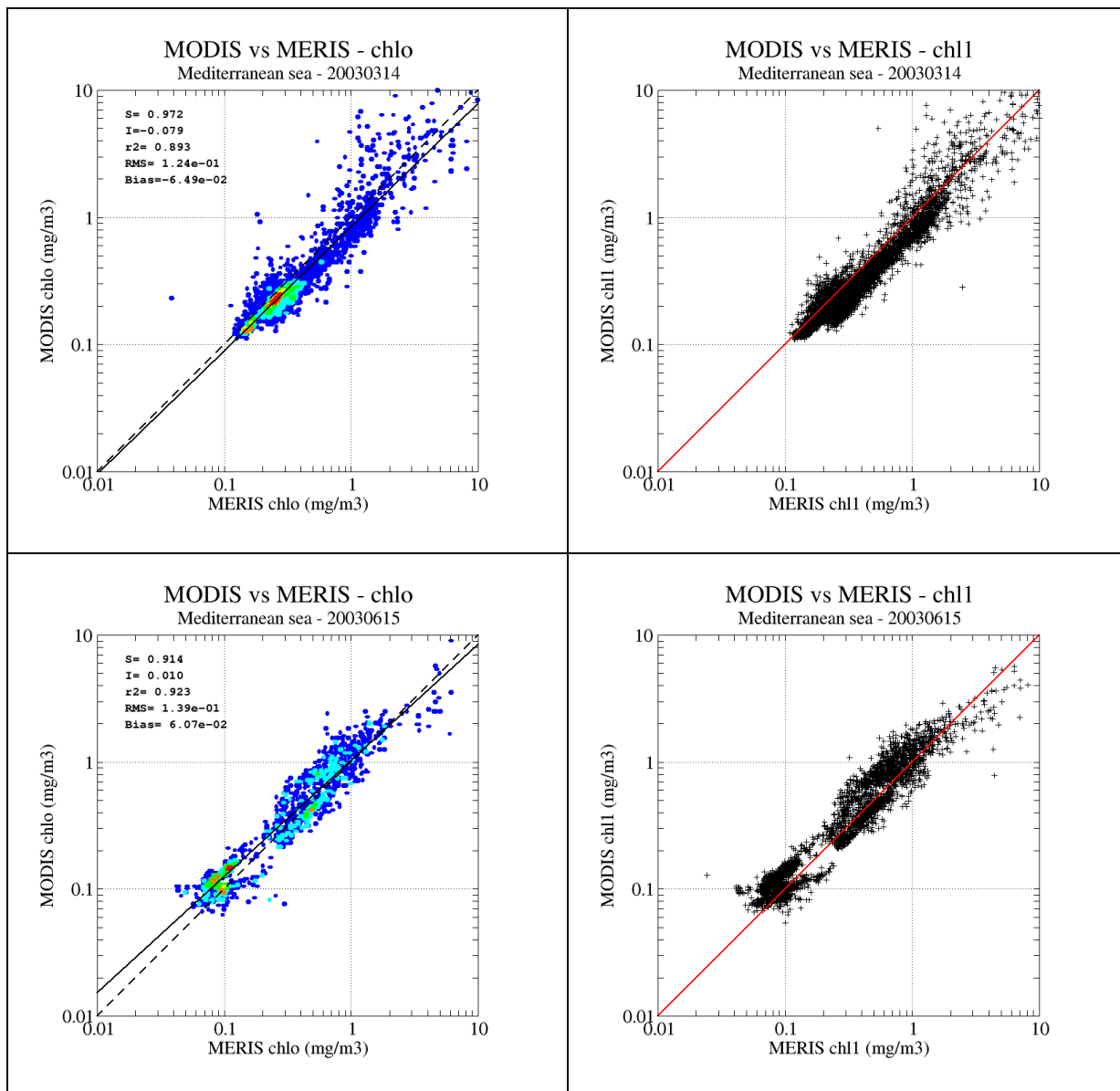


Longitude range: -10° to +40°

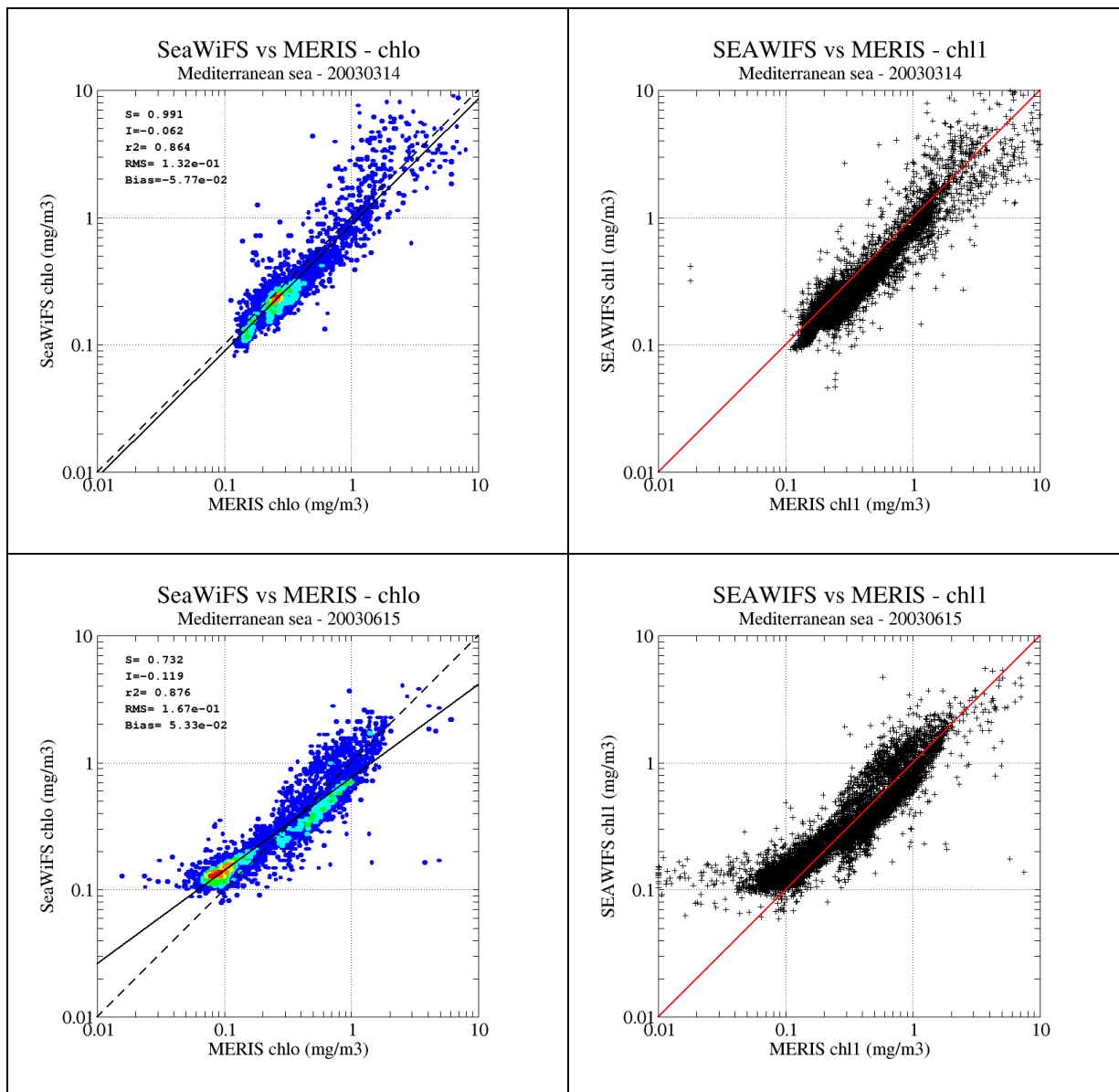
Latitude range: +30° to +50°

Dates: 14/03/2003, 15/06/2003, 15/09/2003 and 15/12/2003

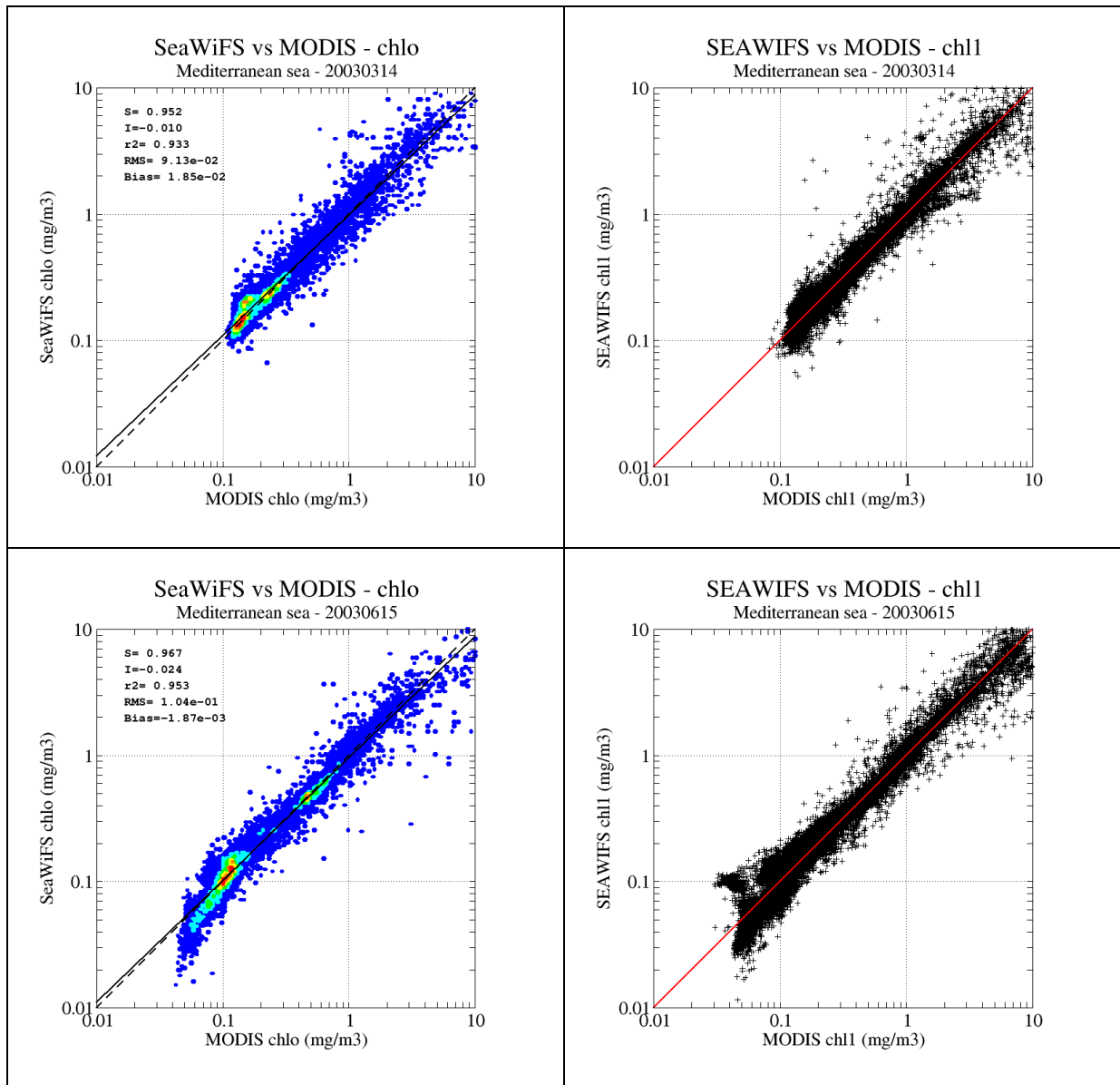
MERIS/MODIS comparison - Chlorophyll concentration - Mediterranean sea



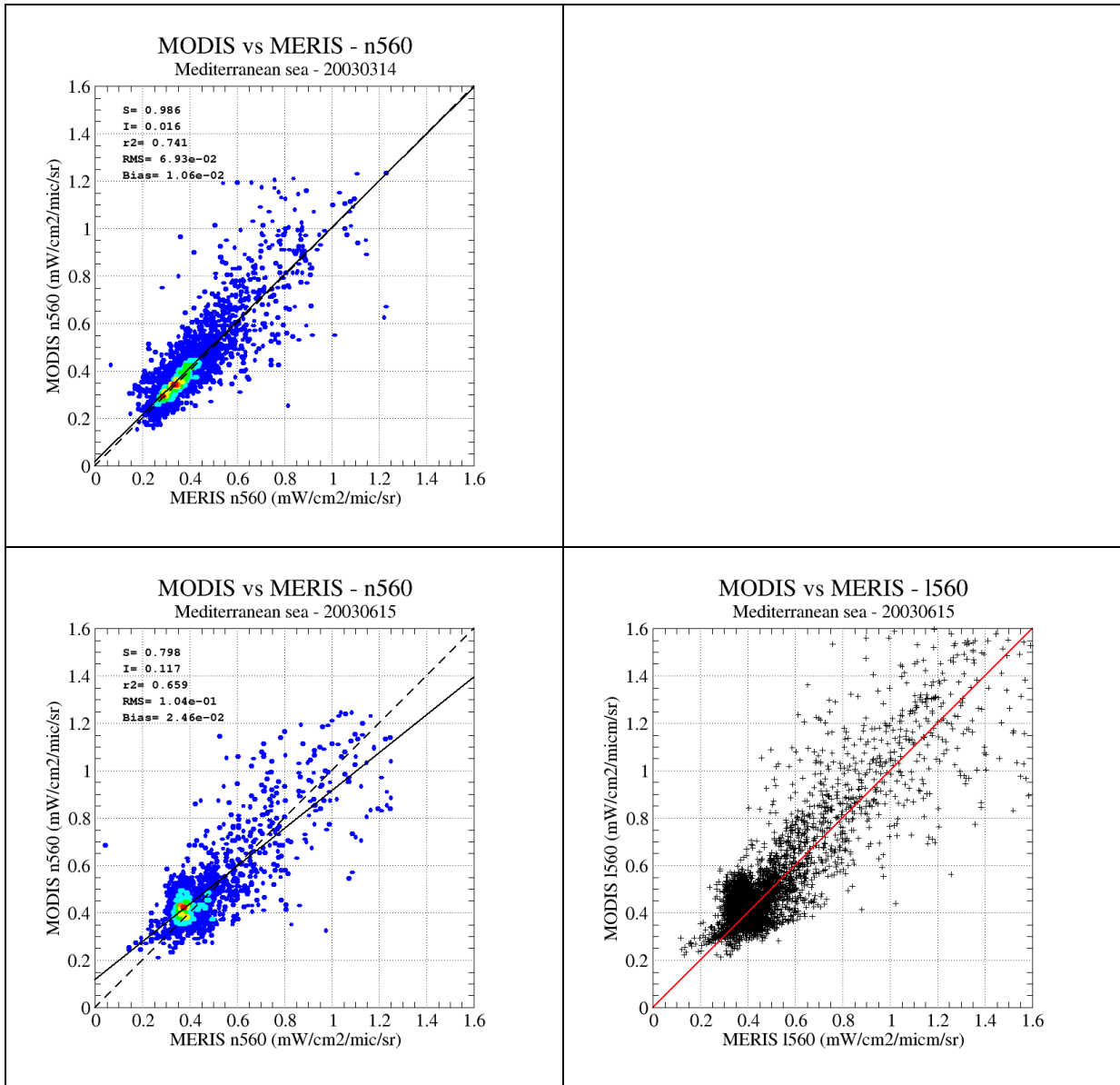
MERIS/SeaWiFS comparison - Chlorophyll concentration - Mediterranean sea



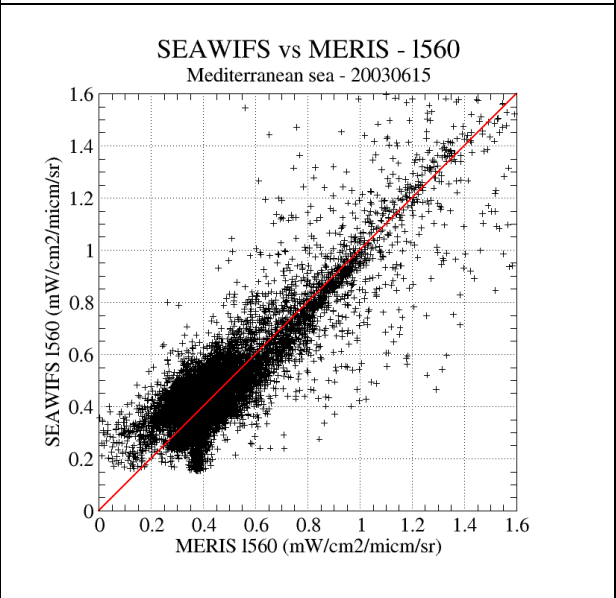
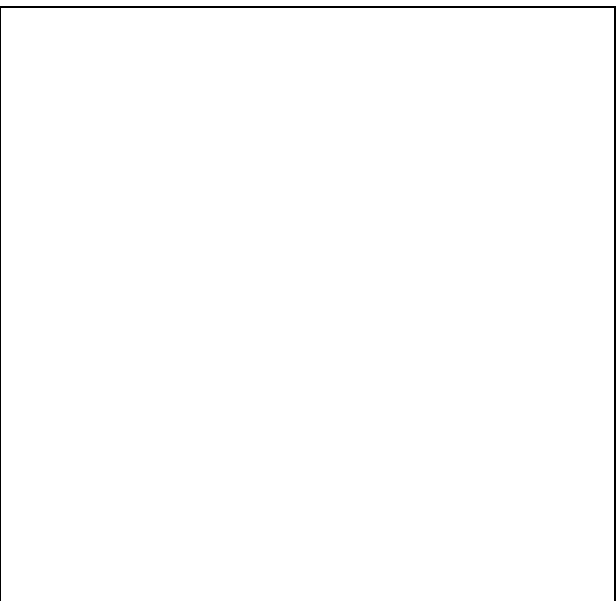
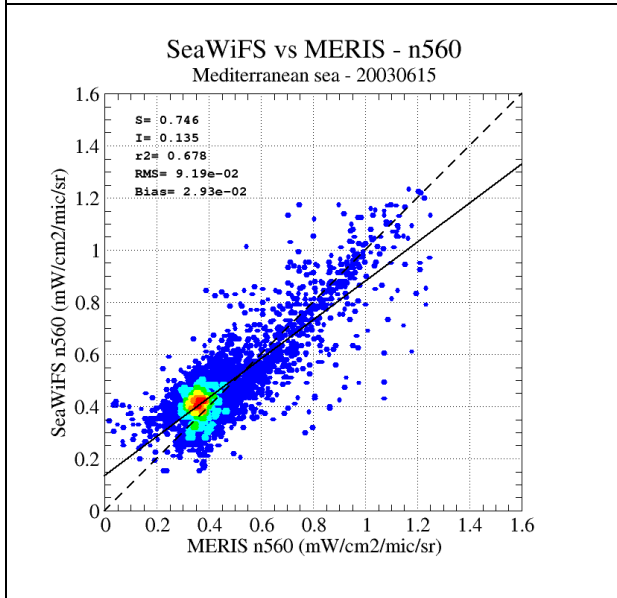
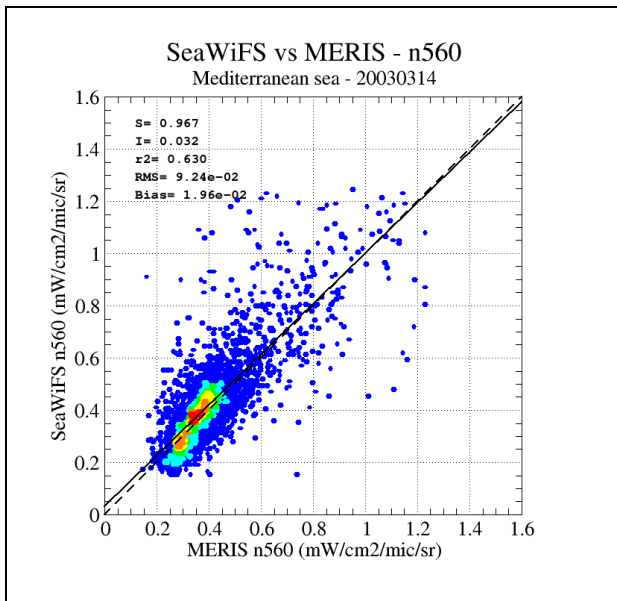
MODIS/SeaWiFS comparison - Chlorophyll concentration - Mediterranean sea



MERIS/MODIS comparison - nLw 560/551 nm - Mediterranean sea



MERIS/SeaWiFS comparison - nLw 560/551 nm - Mediterranean sea



MODIS/SeaWiFS comparison - nLw 560/551 nm - Mediterranean sea

