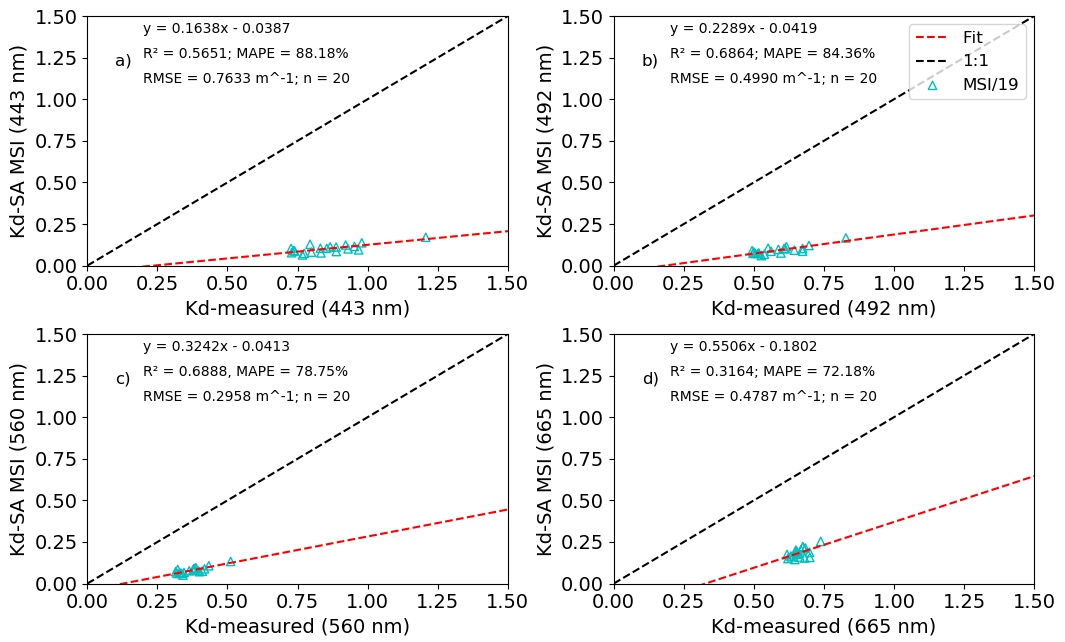
**Supplementary Data.**

**“FigureS1\_Kd-SA-QAAv6 derived from MSI Rrs.jpg”:**

Besides the fact that derived from the field combined with the original QAAv6 approach resulted in good accuracies, the results derived from MSI image were not good.

The accuracy of derived from the MSI image was assessed for each band from B1 to B4 (Figure 1). QAAv6 results for all bands (B1 to B4) showed low accuracies (Figure 1a-d), with R² of 0.57, 0.69, 0.69 and 0.32, MAPE of 88, 84, 79 and 72%, and RMSE of 0.76, 0.50, 0.30 and 0.49 m-1, for each band respectively.



**Figure 1**. derived from MSI bands validations for the original QAAv6 at: a) 443 nm; b) 492 nm; c) 560 nm; and, d) 665 nm.

**“Figure\_Time\_Series.xlsx”:**

Table content of the results of the time-series (Section 3.5.2) with coordinates of the control point.