Supplementary Material

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**Supplementary Figure S**1**.** Distribution of *Chla* in each month for the whole data series 1997 – 2019 at all locations.

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**Supplementary Figure S**2**.** Distribution of *a*tot(443)in each month for the whole data series 1997 – 2019 at all locations.

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**Supplementary Figure S**3**.** Distribution of *K*d(490)in each month for the whole data series 1997 – 2019 at all locations.

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**Supplementary Figure S**4**.** Anomalies of the summer median values of *Chla* each year in reference to the median value for all summer months 1997 – 2019 at all analyzed locations.

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**Supplementary Figure S**5**.** Anomalies of the summer median values of atot(443)each year in reference to the median value for all summer months 1997 – 2019 at all analyzed locations.

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**Supplementary Figure S**6**.** Anomalies of the summer median values of Kd(490)each year in reference to the median value for all summer months 1997 – 2019 at all analyzed locations.

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**Supplementary Figure S**7**.** The number of valid Rrs data that was used to compute *Chla*, *atot(443)* and *Kd(490)* values, plotted each month during 1997 – 2019 at all analyzed locations based on Rrs(490) product.