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Ocean Science
Discussions

Interactive comment on "Monitoring of seasonally variability and movement of suspended sediment concentration along Thiruvananthapuram coast using OLI sensor" *by* Bismay Ranjan Tripathy et al.

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This article describe the seasonal variation in suspended sediment concentration along Thiruvananthapuram coast using remote sensing data. Authors also claim that movement of SSC during pre and post monsoon was monitored using wave direction and significant wave height data.

In abstract high concentration of sediment is 92 mg/l. But in the corresponding figure the maximum value is 0.92 mg/l. Is there any validation of these values reported ?

Very high concentration of sediment concentration is shown at -80 to -100 m depth

in Figure 5. Then how can you write the conclusion as "the suspended sediments were indirectly proportional to bathymetry and distance from the shoreline and directly proportion to wave direction and littoral current at off-shore". No data on littoral currents also presented in the manuscript.

In the methodology the source of wave data is not mentioned.

Reference to the annual rainfall (826 to 1456 mm) is to be added.

September cannot be a post-monsoon for the Kerala coast. It is a monsoon month

Figure 1. depth Legend is wrong. +50 to -160 m. +50 m and -160 m is in Ocean. Also in the -20 m contour also shows it value as 0.

Figure 4 shows the wave direction. Again pre-monsoon means which date & time ?

Again Figure 5 is for which date ?

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