

## Comment on os-2021-45

Anonymous Referee #2

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Referee comment on "Distribution of suspended particulate matter at the equatorial transect in the Atlantic Ocean" by Vadim Sivkov and Ekaterina Bubnova, Ocean Sci. Discuss., <https://doi.org/10.5194/os-2021-45-RC2>, 2021

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This MS is a nice presentation of the data collected during one expedition supplemented with literature review. The Coulter counter data is a big plus. My recommendation will be to publish this MS after minor review, addressing few technical issues listed below.

General remark – I am not a native English speaker myself, but I can feel that some parts of the text might benefit from re-wording/re-writing some sentences, which sometimes reads as direct translation from Russian (see for example lines 213-214, etc.).

Fig. 2:

- A) It would be useful to add the approximate depth to the 1/2/3 notations, i.e. (numbers are just for illustration – please use the real ones): 1-surface currents (0-100m), 2-subsurface currents (100-300m), 3-deep surface currents (300-500m)
- A) and B): looks like isobaths are not at every 500m as stated in the caption. I see 1000, 2000, 3000, 4000, 4500, 5000. Please correct either capture or plots.

Lines 95-100: the sentence "The main existence conditions for GD existence is a cyclonic circulation composed of the eastward NECC and NEUC along with the westward NEC (Stramma and Schott, 1999)."

could use some editing to eliminate a repetition of word "existence"

Fig. 3: search radii? Show the mixed layer depth?

Lines 179-180: use station # for better location reference?

Line 195 – typo ‘occered’

Line 197: “So the local SPM maximum in the GD area within the Ioffe-2000 transect correlate with this data” - show the correlation

Line 255 – typo ‘incresed’

Line 280 – typo ‘depthe’

Line 290 – typo ‘creatint’

Line 336 – typo ‘sized’

Line 363 – typo ‘incresed’