

The authors addressed most of my comments from the first round of revisions. I now have a much better understanding of the wave tank experiments and the presentation of the results which, in my opinion, can still be shortened. I suggest focusing the results on the wind experiments in which the wind was stepwise increased over time (strategy I) and delete those from strategy II as they do not add much to the discussion (strategy I has the bubbling effect as well). I also strongly encourage the authors to add more detail on sample volume and possible replicates (see below and my comments in the first round of the revision).

Methods:

p. 6: I do not think that the results from the experiments in which the wind speed was kept constant (strategy II) add much to the conclusions of the paper, or do they? I suggest taking them out. If the results need to be kept in the paper, you need to justify in the methods why the two different strategies were chosen (strategy I vs II).

p.6, l. 23 – p.7, l.3: This text needs to be moved into the results section.

p.7, l.7 – l. 10: Same thing: results, not methods.

p.7 – Sampling

The authors need to add more info on the quantity of samples taken from the SML and bulk water (I already mentioned that in the first round of revisions). I still don't know how much water was taken with the glass plate each sampling. You mention the numbers of dips but not the volume. Was the water from the 25 dips pooled into one sample or were those replicate samples? How about the bulk water samples? How much water was taken out? Replicates?

p. 8 - Analytical methods

How many replicate filters were prepared for the TEP and CSP analysis?

p. 9, l. 17: Average values of $n = ?$

Results:

Text on page 10: these results are not necessary and should be taken out. They do not add anything to the conclusions of the manuscript. Focus your manuscript on the results of the 7 wind experiments (i.e. days 2, 4, 9, 11, 15, 22, 24 - strategy I).

Discussion

p. 14, l.6 – 11: this was already mentioned in the intro – shorten the text here.

p. 16, l. 6 – 10: this info is mainly introduction – needs to be shortened.

p. 18: l. 11 – 14: as above, needs to be shortened.

Typos/wording:

p. 2, l. 9-10: change to 'smaller sizes'

l. 10-11: delete 'of the experiment'

l. 17: change to 'during low wind speeds.'

p. 3, l. 25: delete both 'the'

p. 4, l.2: 'Gel PSD ...', new line

l. 14: change 'the' to 'a'

l. 19: 'TEP enrichment ...', new line

p. 5, l. 15-17: delete this sentence

l. 23: change to '... Poseidon: ~14000 L ...'

p. 6, l. 3: change to 'Aeolotron (Heidelberg, Germany)'

p. 9, l. 14: add space between 'distribution' and 'after'

l. 15: delete 'from a previous experiment'

l. 16-17: change to 'assuming a normal distribution of the data.'

p. 11, l. 8: change 'excluding' to 'except for' (and hereafter)

l. 21: change 'speed wind' to 'wind speed'

p. 12, l. 9: change 'identified also as' to 'the'

p.19, l. 2: change to 'gel particles'