

Hoppema comments

Dates: please use format 24 August 2017 all through the manuscript (many cases)
We have corrected all dates to this format

L38 Please use format $m\ s^{-1}$
We have gone through the manuscript and used this format throughout

Fig. 1: Delete a from 1a. What do the numbers mean and what are the units? Please define SW. Indicate Louisiana in the map.

Done. The numbers are explained in the caption., as is the 1.5 SW (a rain gauge). We have added (in Louisiana) to the caption rather than try and add it to the map and clutter it further.

L51-52 delete: more than 80 fatalities, and over \$150 billion in economic damage (as this is no scientific knowledge)
Done

L68 Please add when the website was accessed
Done throughout

L111 delete: additional (as this is already included in “added”)
Done

Methods section: Please provide precision and/or accuracy of all measurements. Data downloaded from websites: please add when the website was accessed.
Done (and see comment above about websites)

L176 (caption Fig. 3): delete the second “cruise”
Done

Fig. 3: I think the panels and current vectors and the labels are too small to be readily readable. Please try to enlarge it.

This is now as large as I can get it on a single page. If this is still considered too small, we could split the graphs into two pages. Please let me know about this.

L207 2°C (add C for Celsius)
Done

L250 Please do not use psu, since the salinity that you present is dimensionless. In

some cases you could also use the term practical salinity (to distinguish it from absolute salinity)

We have removed all references to psu

L258 Please delete 1.22 Mcfs, since these are unknown units and it suffices to present the SI units

Done. However, in the discussion of the flow rates in the rivers, we have kept cfs (cubic feet per second) as well as m^3s^{-1} as this is how the USGS records their data. I have added a line in the text to explain this.

L288 and further: It is mentioned that oxygen is generally saturated, but no saturation values are given. Please add those to the concentrations.

These have been added for 25°C and 30°C

Fig. 7 caption L485: Use data formats like 4 September 2017

Done

L515 and further: sub-section chlorophyll: A large part of this section gives and describes data (which could thus be moved to the Results section) There is not much discussion in this section.

We have moved most of this to the Results section (new section 3.5) as suggested. A short part is left in the Discussion.

L568 Write full: Gulf of Mexico

Done

L856 If the journal consists of only one word, it should be written out full:

Biogeochemistry

L864 idem ditto

All references checked for this

Shiller comments

The authors have satisfactorily revised their manuscript and I recommend publication. I do suggest a couple of minor technical corrections:

Fig. 1: The caption refers to 3 & 4, which are not shown on the image.
We don't understand this, as numbers 1-4 are shown on the figure and explained in the caption.

Line 265: should probably remove the word 'rates'.

Done

Figs. 5 and 6: The units shown on the images are 'umol/L' rather than $\mu\text{mol/L}$. In your spreadsheet, you can use Alt-230 (typed on the numeric keypad) to get a μ symbol. Alternatively, look in the ODV users' guide for how to type Greek letters.

We have corrected these figures and any others to show $\mu\text{mol/L}$

Fig 7: The image says ' $\mu\text{Mol/L}$ ', which should be $\mu\text{mol/L}$.

Corrected