

## Response to final comment

We would like to thank again the Editor and the guest Associate Editor for handling our manuscript. We would like also to thank all reviewers for their time and constructive feedbacks.

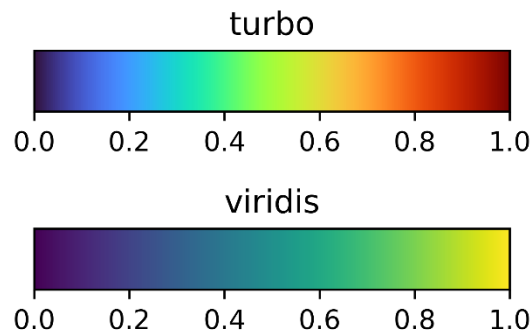
We have corrected the error indicated by the Reviewer and guest Associate Editor. The sentence now reads: “*A Chezy coefficient of  $65 \text{ m}^{1/2}\text{s}^{-1}$  returns a better match with the AirSWOT observations except for the third acquisition on 06 April 2010 UTC (Figure S2C), where slightly better results were found for a Chezy coefficient of  $65 \text{ m}^{1/2}\text{s}^{-1}$ .*”

We ran another grammar check and found another error in the Acknowledgements. In the final sentence at line 472 we removed ‘that’, so the last part of the sentence reads: “*and all Delta-X team members that contributed to the conceptualization of the Delta-X mission and the data included in this study*”.

## Colormaps and colors update

As recommended, we have modified all figures to ensure readability for readers with color vision deficiencies. After the modifications, readability was tested using the open source Color Blindness Simulator by Matthew Wickline and the Human-Computer Interaction Resource Network at <https://www.color-blindness.com/coblis-color-blindness-simulator/>.

In Figures 2, 4, 5, 6, 7, 8, 9, and 10 the diverging ‘RdBu’ colormap was not modified because already colorblind safe. The major change was the switch from the ‘turbo’ to the ‘viridis’ colormap, but there were additional changes to other figures.



## MAIN TEXT

Figure	Modification
Figure 1	We changed color of the domains with more distinguishable tones: <b>green</b> , <b>orange</b> , <b>purple</b> .
Figure 2	Colormap in subplots (b) and (c) changed to the colorblind safe ‘viridis’. In subplot (c), colorbar range was slightly modified from 0-150 to 0-130 mg/L for a better contrast.
Figure 3	We changed the colors of the domain to be consistent with Figure 1 and changed the line type to a dotted line to better separate with flight-lines. Flight-lines

	extensions colors were changed ensure readability. <b>Pink</b> for UAVSAR, <b>yellow</b> for AirSWOT, and <b>green</b> for AVIRIS-NG.
Figure 4	Colormap changed to 'viridis'
Figure 5	Colormap changed to 'viridis'
Figure 6	Subplots (f) and (g) colormap changed to 'viridis'
Figure 7	Colormap changed to 'viridis'
Figure 8	Colormap changed to 'viridis'
Figure 9	Colormap changed to 'viridis'
Figure 10	Colormap changed to 'viridis'

## SUPPLEMENTARY INFORMATION

Figures S1, S3, S5, S6, and S7 readability was verified and no change was necessary. Figures S4 and S8 were improved by changing **red** and **blue** with **green** and **orange**. In Figure S2, colormap was changed from 'turbo' to 'viridis'.