

ESSDD

Interactive comment

Interactive comment on "Strong tidal variations in ice flow observed across the entire Ronne Ice Shelf and adjoining ice streams" by Sebastian H. R. Rosier et al.

R. Walker (Referee)

ryan.t.walker@nasa.gov

Received and published: 5 September 2017

This is an intriguing data set that I look forward to checking out for myself.

I have several comments, all of them relatively minor issues.

Page 1, Line 15) The citations are out of order here (and a few other places).

Figure 1) I'd like to see the ice front marked on this, if it doesn't make the figure harder to read. If that doesn't work, please give the distance between the amphidrome and ice front.

Figure 2) At least on the version I printed out, there's not that much color contrast

Printer-friendly version

Discussion paper



between medium and dark blue. Also, it would be good to give the ice stream names in this caption, so it's not necessary to look ahead to Figure 3.

Figure 3) Could you label at least one contour so it's easier to see ice velocity?

Page 3, Line 4 ff.) This paragraph should also mention Anandakrishnan et al (2003) on Bindschadler ice stream, which is a case of more or less diurnal forcing causing more or less diurnal response. Also, it's a bit odd to refer to FRIS in a paragraph about behavior different from your observations here, considering that FRIS is part of your domain.

Figure 7) Which components had SNR > 2? Just the ones in Table 1?

Page 12, Line 5) Carlson Inlet isn't shown on any of the maps.

Page 12, Line 6) More quantitatively, what are you considering to be fast or slow flow?

Interactive comment on Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2017-70, 2017.

ESSDD

Interactive comment

Printer-friendly version

Discussion paper

