

Interactive comment on “First ice thickness measurements in Tierra del Fuego at Glacier Schiaparelli, Chile” by Guisella Gacitúa et al.

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The manuscript reports new radar-detected ice thickness measurements from Glacier Schiaparelli in Tierra del Fuego. These are important and fundamental measurements from a remote site on the west coast of South America (S54.38, W70.87); measurements from the region are sparse and difficult to obtain. The study is a contribution to an international collaboration to evaluate climate variability and climate change in Patagonia and Tierra del Fuego.

Ice thickness and surface elevation data from the study have been archived and are available at: <https://doi.org/10.1594/PANGAEA.919331>. This report provides details of the methods and results. The manuscript is well written and clear – nice work.

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As an aside, I am interested to know whether the depth of proglacial Lago Azul been sounded? If not, might that be possible to do that from a small boat in the future?

A question about data processing: I am surprised that a bandpass filter to eliminate high- and low-frequency signals was not mentioned in the results section. I am speculating that a filter might help improve the resolution of the bed reflection, thereby reducing the uncertainty in the bed picks. Does the software package allow you to apply a bandpass filter and adjust the bandwidth of the filter?

And two spelling corrections - Line 19: “multidisciplinary” rather than “multidiciplinary”
- Figure 2 Caption “Triangulated” rather than “Triagulated”

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