

Interactive comment on “Greenland annual accumulation along the EGIG line, 1959–2004, from ASIRAS airborne radar and detailed neutron-probe density measurements” by T. B. Overly et al.

G. Catania

gcatania@ig.utexas.edu

Received and published: 1 February 2016

This paper presents radar-derived accumulation rates along a line where numerous ground measurements were acquired previously. The goal is to test the sensitivity of layer depth/age (and thus estimated accumulation) to estimates in density using Herron and Langway. The authors discuss how their results fit into that from others along the same line, and thus provide a way for further use of radar layers to derive ice-sheet wide accumulation rates from radar. I think they did a good job of comparing their results to others and understanding how to best use radar to derive accumulation.

C2928

I am not a specialist on radar-derived accumulation or the region of interest so I cannot provide detailed comments on that aspect of this work. It seems to me that the work presented here is logical and sufficient detail is presented to understand what has been done. I found the manuscript difficult to read with redundant/repetitive sentences, missing words, undefined symbols etc. I have annotated the manuscript in the attachment, but it would serve the author to proof-read manuscripts with a reader's eye several times before submission. When it's difficult to read something it's hard to get past the grammatical errors and really review the science.

Please also note the supplement to this comment:

<http://www.the-cryosphere-discuss.net/9/C2928/2016/tcd-9-C2928-2016-supplement.pdf>

Interactive comment on The Cryosphere Discuss., 9, 6791, 2015.