

Interactive
Comment

Interactive comment on “Global Hawk dropsonde observations of the Arctic atmosphere during the Winter Storms and Pacific Atmospheric Rivers (WISPAR) field campaign” by J. M. Intrieri et al.

Anonymous Referee #1

Received and published: 21 May 2014

The manuscript describes the potential of a high-altitude UAS observing system. The text is well-written, interesting, and in-scope of the Journal. I enjoyed reading it and recommend accepting it for publication with minor revisions, as follows:

1. (Intro, lines 1-16): Focusing exclusively on the Arctic sea ice misleads reader from the main point of the paper. I suggest motivating the need of this observing system, for instance, with the lack of high-resolution in situ profiles in poorly observed regions for diagnosis of atmospheric structures, and less emphasis on climate monitoring.
2. Intro: I suggest adding a short review on how Global Hawk relates to other existing

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UASes in terms of performance, coverage, etc.

3. page 4072, line 17: Is RD94 the standard sonde or the one deployed in Global Hawk. Please clarify.

4. page 4073, line 13: You mention surface; I wonder how you obtain the sfc pressure, and does the sonde float and continue transmitting?

5. Fig 4: I suggest displaying differences rather than absolute values (same in Fig. 6; Figure 7 is nice!).

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 4067, 2014.

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