

## ***Interactive comment on “The Antarctic sea ice cover from ICESat-2 and CryoSat-2: freeboard, snow depth and ice thickness” by Sahra Kacimi and Ron Kwok***

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Some additional CS-2 studies exist which support the uncertainty surrounding CS-2 freeboard retrievals which would support the study.

Fons, S. W. and Kurtz, N. T.: Retrieval of snow freeboard of Antarctic sea ice using waveform fitting of CryoSat-2 returns, *The Cryosphere*, 13, 861–878, <https://doi.org/10.5194/tc-13-861-2019>, 2019.

Price, D., Soltanzadeh, I., Rack, W., and Dale, E.: Snow-driven uncertainty in CryoSat-2-derived Antarctic sea ice thickness – insights from McMurdo Sound, *The Cryosphere*,

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13, 1409–1422, <https://doi.org/10.5194/tc-13-1409-2019>, 2019.

Price, D., Beckers, J., Ricker, R., Kurtz, N., Rack, W., Haas, C., . . . .  
Langhorne, P. (2015). Evaluation of CryoSat-2 derived sea-ice freeboard over fast ice in McMurdo Sound, Antarctica. *Journal of Glaciology*, 61(226), 285-300. doi:10.3189/2015JoG14J157

Schwegmann, S., Rinne, E., Ricker, R., Hendricks, S., and Helm, V.: About the consistency between Envisat and CryoSat-2 radar freeboard retrieval over Antarctic sea ice, *The Cryosphere*, 10, 1415–1425, <https://doi.org/10.5194/tc-10-1415-2016>, 2016.

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Interactive comment on *The Cryosphere Discuss.*, <https://doi.org/10.5194/tc-2020-145>, 2020.

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