

Interactive comment on “Overview of NASA’s MODIS and VIIRS Snow-Cover Earth System Data Records” by George A. Riggs et al.

Anonymous Referee #3

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The manuscript presents an overview of the latest MODIS and VIIRS dataset which is very important for cold region study. This dataset is absolutely unique and significantly useful since the previous versions of MODIS snow cover dataset has been widely used over the world. I look forward to use this new dataset and hope this manuscript can be published as early as possible. Only two technical suggestions: 1) In the abstract, line 12, an abbreviation ‘Suomi-NPP’ is used but it is changed to ‘S-NPP’ in line 26. 2) In page 8, line 15-20, the authors discussed ‘it was common in spring and early summer on some mountain ranges for mixed pixels that included snow to have surface temperatures above 283K and thus a great deal of spring or summer snow on mountains was not mapped’. But in line 22-25, the authors say similar sentences again: ‘They showed that snow cover in the seasons of autumn, spring and summer on some mountain ranges was not mapped in the MOD10A1 C5 FSC data product’. I suggest the section

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3.1.1 can be reorganized for better understanding for readers.

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