

**To:** Natural Hazards and Earth System Sciences  
Dr. Veit Blauhut, Editor  
**Re:** Technical Corrections to Accepted Manuscript (nhess-2021-193)  
**Date:** 26-Jan-2022

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Dear Dr. Blauhut,

Thank you for noting the issue with line 113 in the tracked changes version of the revised manuscript. The citations "Montecinos et al., 2017; Shortridge et al. 2019." overrunning the margin appears to be an issue with the diff function in LaTeX during the compiling process to create the tracked changes version. I was able to remedy this issue by forcing a newline (see Figure 1 below). The revised and clean (no tracked changes) manuscript looks good with no overrunning (see line 104; Figure 2).

Thank you again for your support throughout the submission and revision process, we greatly appreciate it. Sincerely,  
Benjamin Hatchett

110 **3.1.1 Creating the Snow Drought Phase Diagram**

For each station, we calculated daily percentiles of accumulated precipitation and SWE from 1 November to 30 April (or 31 May) using a seven-day moving window centered on each calendar day ~~to reduce seasonality effects~~ (Montecinos et al., 2017; Shortridge et al., 2019). Results were not sensitive to moving windows sized between zero and 15 days. We calculated percentiles using the period of record. Following Huning and AghaKouchak (2020a), we used the U.S. Drought Monitor "D scale" (Svoboda et al., 2002) to characterize snow drought as abnormally dry (D0), moderate drought

Figure 1: Forced newline fixed the overrunning issue in the tracked changes version.

**3.1.1 Creating the Snow Drought Phase Diagram**

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105 percentiles using the period of record. Following Huning and AghaKouchak (2020a), we used the U.S. Drought Monitor "D scale" (Svoboda et al., 2002) to characterize snow drought as abnormally dry (D0), moderate drought (D1), severe drought

Figure 2: Clean version of manuscript compiles correctly and has no overrunning.