Dear Drs. McMillan, Coxon, Westerberg, and Senoner,

I am writing to submit our manuscript entitled “A Multi-sensor Evaluation of Precipitation Uncertainty for Landslide-triggering Storm Events” for your consideration as a Research Article in the Hydrological Processes special issue on "Impacts of observational uncertainty on analysis and modelling of hydrological processes". Our article examines uncertainty in precipitation measurements at the locations of landslides and the impacts of those uncertainties on the diagnosis of landslides on the basis of antecedent precipitation. In line with the goal of the special issue, we aim bring an analysis of observational uncertainty to the hydrological processes that result in natural hazards, specifically rainfall-triggered landslides.

In spite of the destructive nature of landslides, which cause tens of thousands of deaths each year these events remain challenging to diagnose, in part due to uncertainty in antecedent precipitation amounts. Practitioners and researchers must select among a wide range of precipitation products, often with little guidance. This analysis of the characteristics of different types of precipitation products drawn from multiple categories of precipitation measurements highlights the qualities of each precipitation product that make them more or less suitable for diagnosing landslides using intensity-duration thresholds in near real-time. We believe that this article will be of interest to the natural hazards community as well as providing a novel lens for precipitation inter-comparison.

All individuals listed as authors qualify as authors and have approved the submitted version. This work is original and is not under consideration by any other journal. All permissions required for the publication of this manuscript have been obtained.

Thank you for your consideration. I look forward to your reply.

Yours truly,

Elsa Culler