

## ***Interactive comment on “Reconstruction of three-dimensional rockfall trajectories using remote sensing and rock-based accelerometers and gyroscopes” by Andrin Caviezel et al.***

**Andrin Caviezel et al.**

andrin.caviezel@slf.ch

Received and published: 19 November 2018

We thank the referee for his positive conception of our submission and his suggestions for improvements.

The manuscript has been amended to incorporate the referee's suggestions in the following way (and can be reviewed in the supplemented file):

- Title: We changed it to "four-dimensional" as the temporal dimension is of significant interest in the shown reconstruction, indeed.
- Abstract: We enlarged the significance statement, as the referee points out correctly,

C1

that a complete understanding of rockfall kinematics is an essential part of general cascading effects in gravitational sediment transport.

- The UAS methodology has been supplemented with additional technical information for the interested reader, such that the used settings and workflow is reconstructable.
- We amended all the minor unclaritys (P3,L6; P4,L19; P7,L2;P7,L21) with short additional explanations and additional references.

Additional changes: Figure 1 was amended, such that colorbar ticks are fully readable and the location of the test site is placed more accurately in the "Switzerland" inset. Any small inconsistencies or unclaritys in terms of the DCR work-flow should be phrased more clearly. Figure 4 has also been improved: Captions are amended, readability and self-explanatory style of figure improved.

On behalf of all of the authors, yours sincerely,

Andrin Caviezel

Please also note the supplement to this comment:

<https://www.earth-surf-dynam-discuss.net/esurf-2018-74/esurf-2018-74-AC1-supplement.pdf>

---

Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2018-74>, 2018.

C2