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2 **Early warning system for ice collapses and river blockages in the** 3 **Sedongpu Valley, southeastern Tibetan Plateau**

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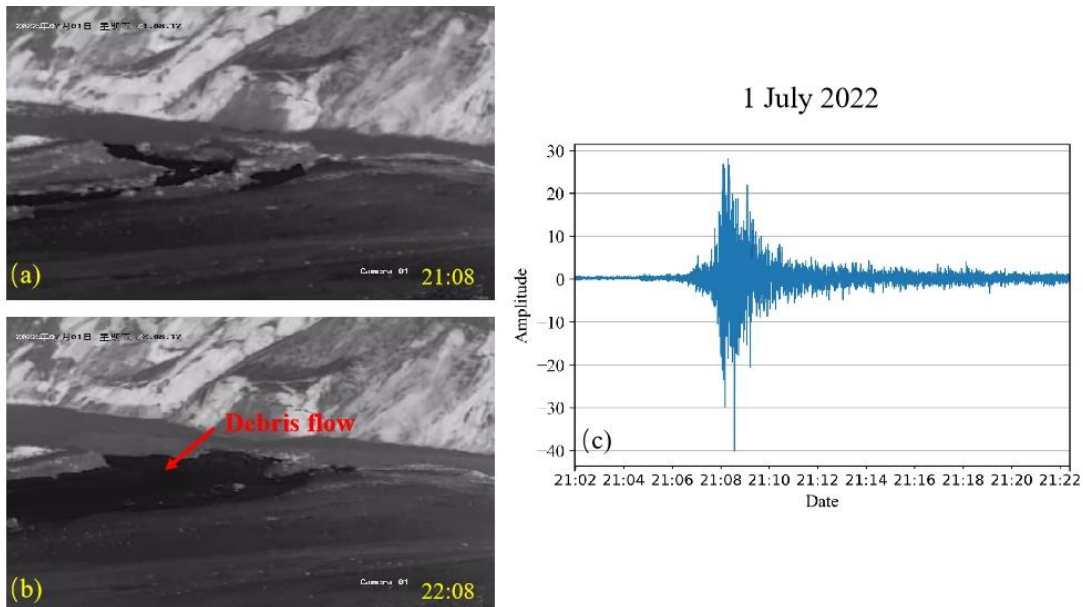
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13 The following figures show the comparing optical/thermal photography and geophone
14 waveform of the seven small-scale ice/rock collapse-debris flow events (1 July, 7 August, 9
15 September, 19 September, 24 September, 20 October, 2 November), which debris flows arrived at
16 the Sedongpu Valley outlet but did not significantly block the Yarlung Tsangpo River.

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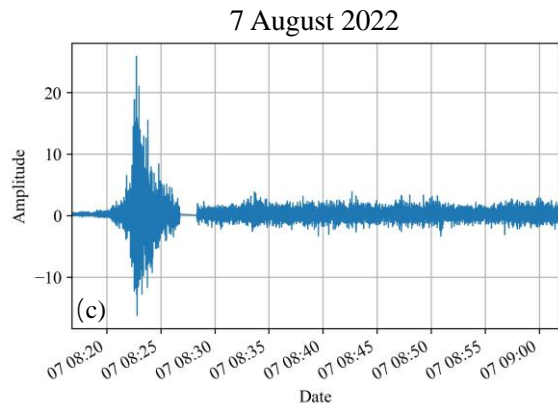


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19 **Figure S1.** Comparing images showing the occurrence debris flows at the Sedongpu Valley outlet
20 (a, b) and the related collapse-induced seismic waveform on 1 July 2022 which maximum amplitude
21 of geophone waveform was greater than 20 (c).

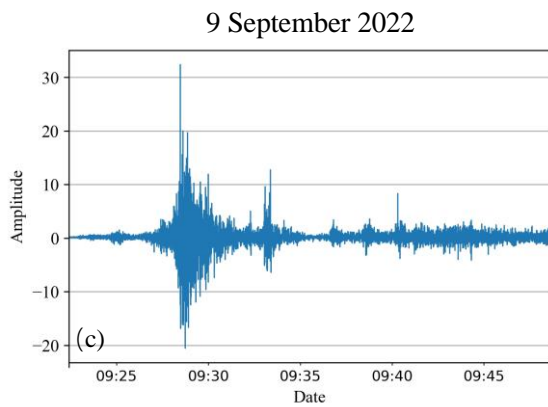
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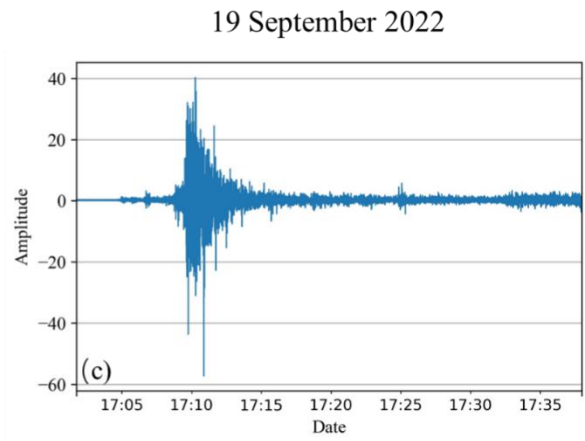
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Figure S2. Similar to the above figure but on 7 August 2022.



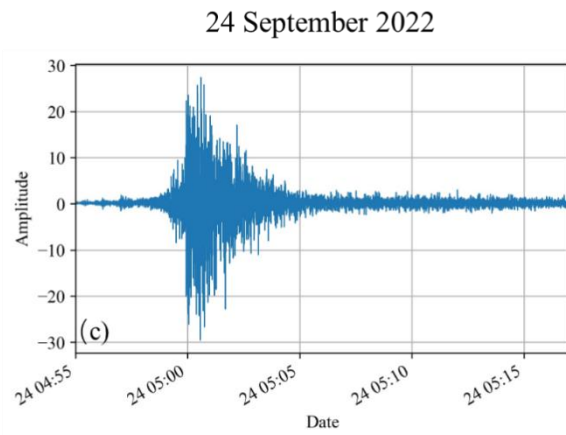
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Figure S3. Similar to the above figure but on 9 September 2022.



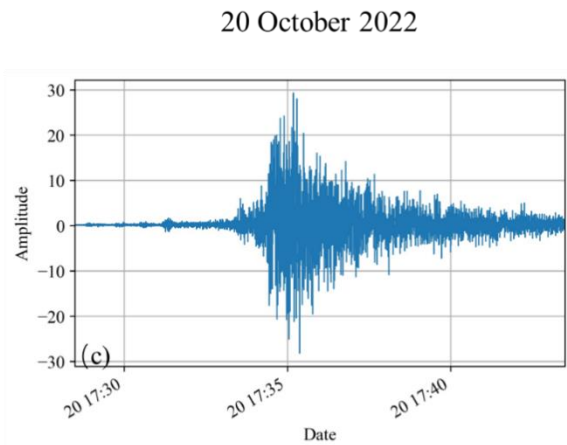
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Figure S4. Similar to the above figure but on 19 September 2022.



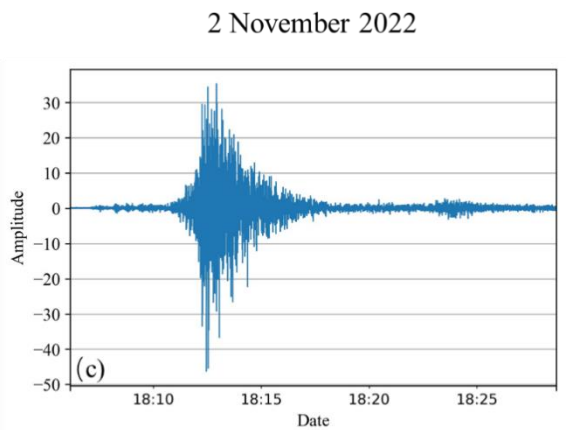
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Figure S5. Similar to the above figure but on 24 September 2022.



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Figure S6. Similar to the above figure but on 20 October 2022.



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Figure S7. Similar to the above figure but on 2 November 2022.