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Response of downstream lakes to Aru glacier collapses on the western Tibetan Plateau

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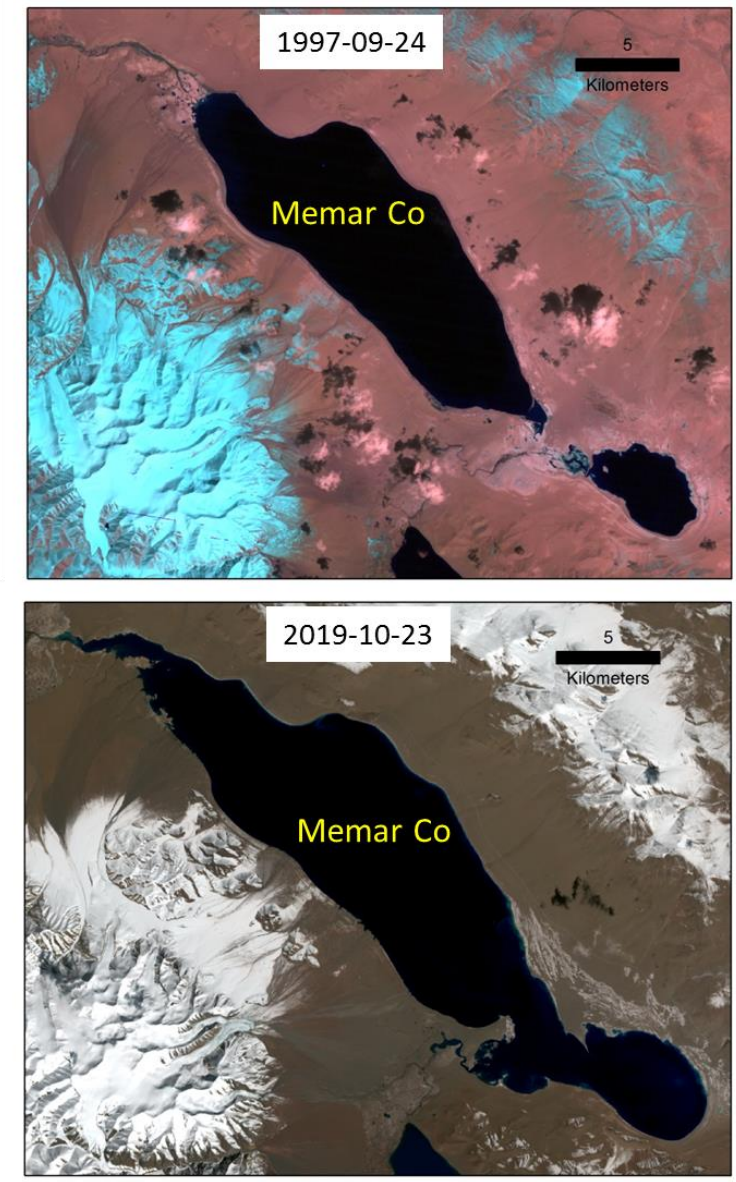

Fig. S1 Changes in lake extent of Memar Co between 1997 and 2019

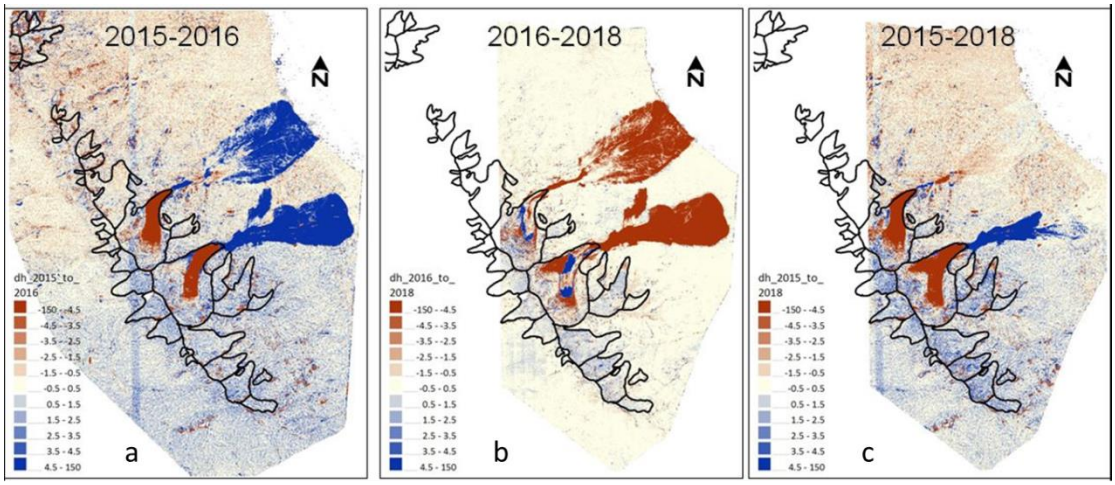

Fig. S2 Elevation changes of the two ice avalanches derived from SPOT7 and Pléiades. a: 25 November 2015 to 1 October 2016, b: 1 October 2016 to 28 August 2018, c: 25 November 2015 to 28 August 2018.

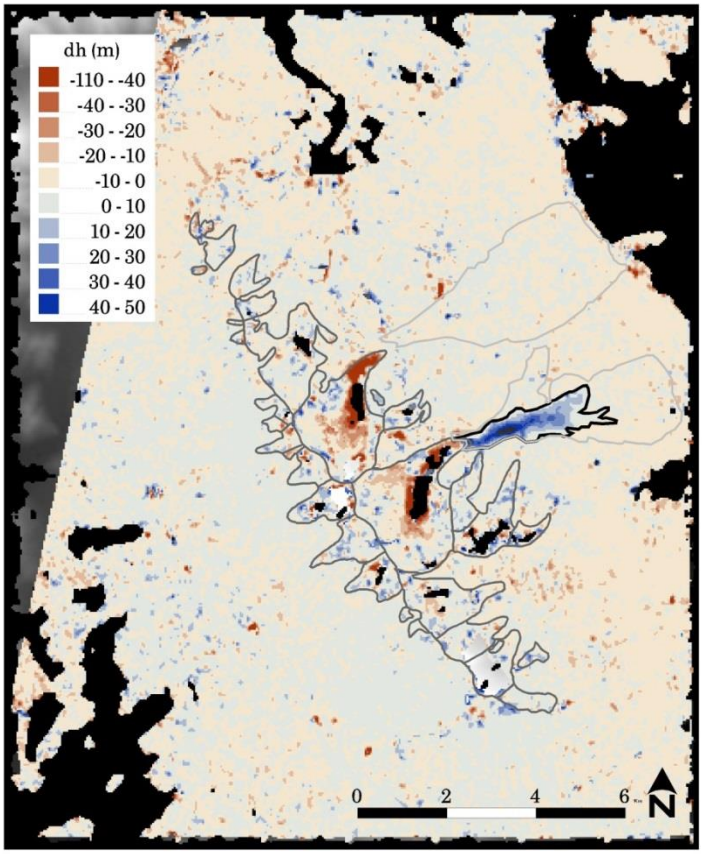

Fig. S3 Elevation changes of the ice avalanche area derived from ASTER DEMs between November 2011-2012 and January 2020. A mosaic of two ASTER DEMs is used in November 2011-2012.

Fig. S4 Photos of the Aru-2 ice avalanche deposit in October 2019 (taken by Dr. Huabiao Zhao)

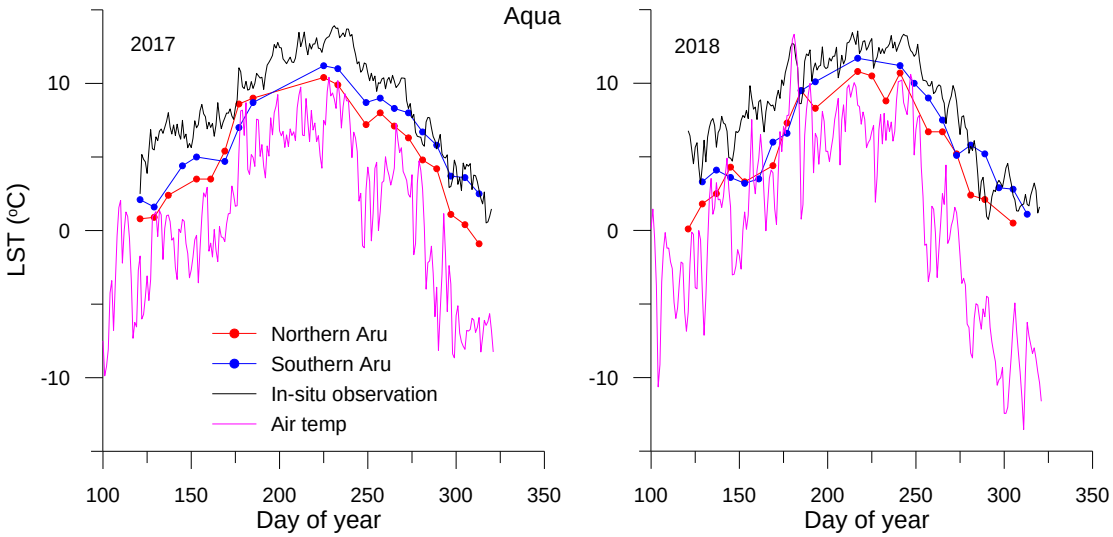

Fig. S5: Comparison of MODIS derived lake surface temperature with in-situ measurement at the shoreline and daily air temperature from AWS station.

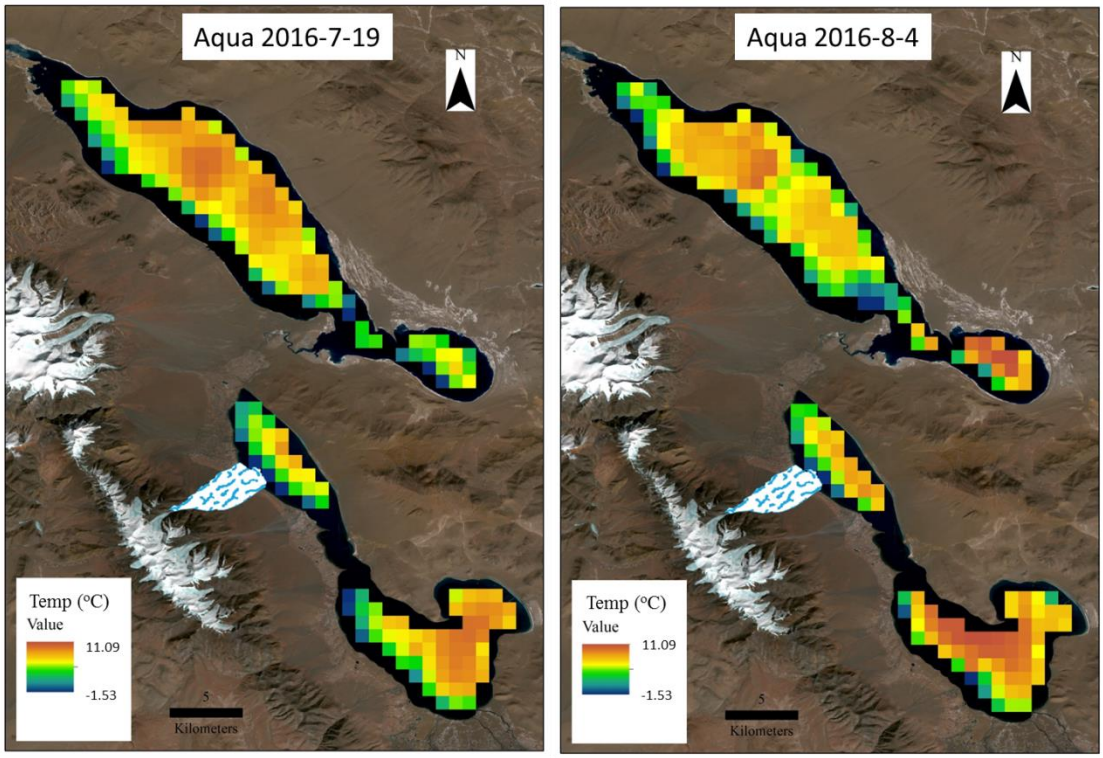

Fig. S6: Spatial distribution of nighttime lake surface temperature (LST) at Aru Co and Memar Co after the Aru-1 glacier collapse (19 July and 4 August 2016).