High Mountain Asia
Snow Trends

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Analysis of snow cover using “snow cover days”

Figure 2. Daily gap-filled MODSCAG data (left) are aggregated annually (i.e. the number of snow covered days in each pixel per year) over the MODIS record (2002-2017) to determine snow covered days (center). 500-meter elevation bands are also applied (right). Annual trends are then assessed across basins and elevation classes.

Data: Karl Rittger
Analysis: Chelsea Ackroyd & Mckenzie Skiles
Snow cover trends in the Hindu Kush Himalaya

Figure 3. Each map displays the mean between the maximum and minimum frequency years; high values show persistent snow (present in both years) and lower values show sensitive snow (present in high year but not low year). The mean frequency of snow covered days is displayed for each basin, as well as for each elevation band (solid lines are negative trends). Trends for each basin, and the full HKH (see above).
Snow cover trends in the Brahmaputra

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Snow cover trends in the Amu Darya

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