

This manuscript presents a dataset of seven meteorological stations in the Khumbu Valley, Nepalese Himalaya. The oldest of these stations dates back to 1994, and as such it is some of the very little data available at high-elevation in the Himalaya, and contains invaluable long timeseries of climate data. I commend the authors on their efforts to archive this data in way that is available to the scientific community. It will be a resource of considerable scientific importance.

As this manuscript is presenting a new geoportal to share this data, some of my comments are in relation to the portal itself, as I believe there are a few technical changes to make before it is ready for publication.

### **Comments on the data and data portal**

On the data portal, it is possible to output the data as a table or a graph, but not to download the csv links from here. The zenodo links in the manuscript do contain the data, so perhaps these could be linked to the data portal? In addition, I think there is a problem with the metadata, as the html link reports an error and is not easily readable. On my screen, the metadata is also written in white text on a white background.

As the data being presented in this manuscript is the same as that used in Salerno et al., 2023, I have a question from that manuscript relating to this one, namely in Fig. 3 of Salerno et al., 2023, the authors refer to northerly flow as  $90^{\circ}$ – $270^{\circ}$  (and later to this degree range as ‘southward’). This seems non-standard, so could the authors confirm that the data from the anemometers described in this manuscript are oriented in the standardised setup, with  $0^{\circ}$  pointing north and representing northerly wind (southerly flow being represented by values  $90^{\circ}$ – $270^{\circ}$ )? If not, please list a clear clarification in both this manuscript and with the wind direction data.

Could the authors please add a timezone to the data (this may be in the metadata, but it is not currently available).

### **Comments on this manuscript**

Line 109-111: The authors refer to strong diurnal katabatic winds, but the windrose shown in Salerno et al., 2023 Fig. 3 suggests predominantly anabatic winds (most strong winds are South Easterly i.e. up-glacier). Is there some evidence from the data in this manuscript of the strong katabatic winds above 4500 m?

Looking at the precipitation timeseries in figure 5, the decrease in precipitation appears to be a step change around 2001, when the new AWS was installed. Could the authors comment on whether they consider this trend reliable, or potentially due to the new instrumentation? In the interpretation of precipitation trends on line 250, what is the reference period for the 41% reduction?

Figure 5: This figure is a little hard to interpret due to the many different plots and the very small size. Could the authors please enlarge the figure and label the figure (a, b, c etc, or

perhaps a) i), a) ii) etc) so that it is easier to refer to the different plots in the figure caption. The figure caption should refer to temperature for the initial reference to “a) maximum, b) mean, c) minimum”. Including colour bar labels and axis labels referring to the variable being shown would also help interpretation. Please also change ‘the top graph....shows the monthly trend’ to ‘the top graph....shows the monthly timeseries’.

Line 223: Should this trend be  $-0.031 \pm 0.015 \text{ } ^\circ\text{C y}^{-1}$ ? It seems out by an order of magnitude compared with figure 5.

Line 229-230: the authors mention a decreasing trend in the cold months, but in line 224-227 they discuss increases/no trend in the cold months. Please clarify this.

Line 238: For the minimum air temperature, fig. 5 shows a positive (rather than negative) trend, statistically significant with  $p < 0.01$ .

Figure 1: The location of Changri Nup station does not match the location in the table 1. Could the authors please check all the station locations in figure 1.

Line 262: please clarify in the conclusions that this decreasing trend in air temperature only holds for maximum air temperature in certain months.

**Minor comments:**

103 and figure 4 caption: typo cumulated precipitation -> cumulative precipitation

Table 3: Please standardise the names of the stations e.g. include the AWS4 etc IDs in table 3. It would also be helpful to explicitly state that the Z naming convention relates to elevation of the AWS, as it's not immediately obvious.

Line 212: I think it would be more applicable to reference the minimum temperature being mostly above 0 here, as in principle the mean temperature could be above 0 but precipitation fall as snow during the night.

247: typo period -> periods