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Interactive comment on "Inter-hemispheric linkages in climate change: paleo-perspectives for future climate change" *by* J. Shulmeister et al.

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Understanding of glaciation-degalcitaion in Himalaya is still an enigma. The understanding of climatic conditions at Pole-Equator-Pole in a broader perspective may provide some insight to the climatic oscialltions during late Pleistocene-Holocene, but the role of orographic highs, such as Himalaya in bringing in the changes in climatic oscialltions on a regional scale cannot be ruled out. It is therefore, imperative to consider the studies undertaken on the glacial history of Himalaya while broadly understanding the global changes in climate during late Pleistocene-Holocene. The limited, but siginificant work on the metereological studies of the parts of NW Himalaya (Uttaranchal, Himachal Pradesh, Jammu Kashmir and Uttar Pradesh)provides sufficient information on the inter- and intra- annual variation in the weather parameters on local and regional scale. Although it is premature to mention any relationship between these inter- and intra-annual variation and strengthing and/or weakening of SW monsoon (a diagnostic

regional climatic event) in the region, yet it cannot be completely ruled out that both the phenomenon are interdependent. Extrapolating the above fact from the present day studies of the glaciated regions of NW Himalaya,it can be said that such variation in the weather pattern may have been responsible for the early degalciation in the Himalaya. The study of glacial lake sediments from NW Himalaya further add to the view that periodic cooling and warming events occured from the early phase of Holocene in Himalaya that was also responsible in causing fluctuation in the advance and retreat of the tree line in Himalaya and also affecting the health of glaciers.

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