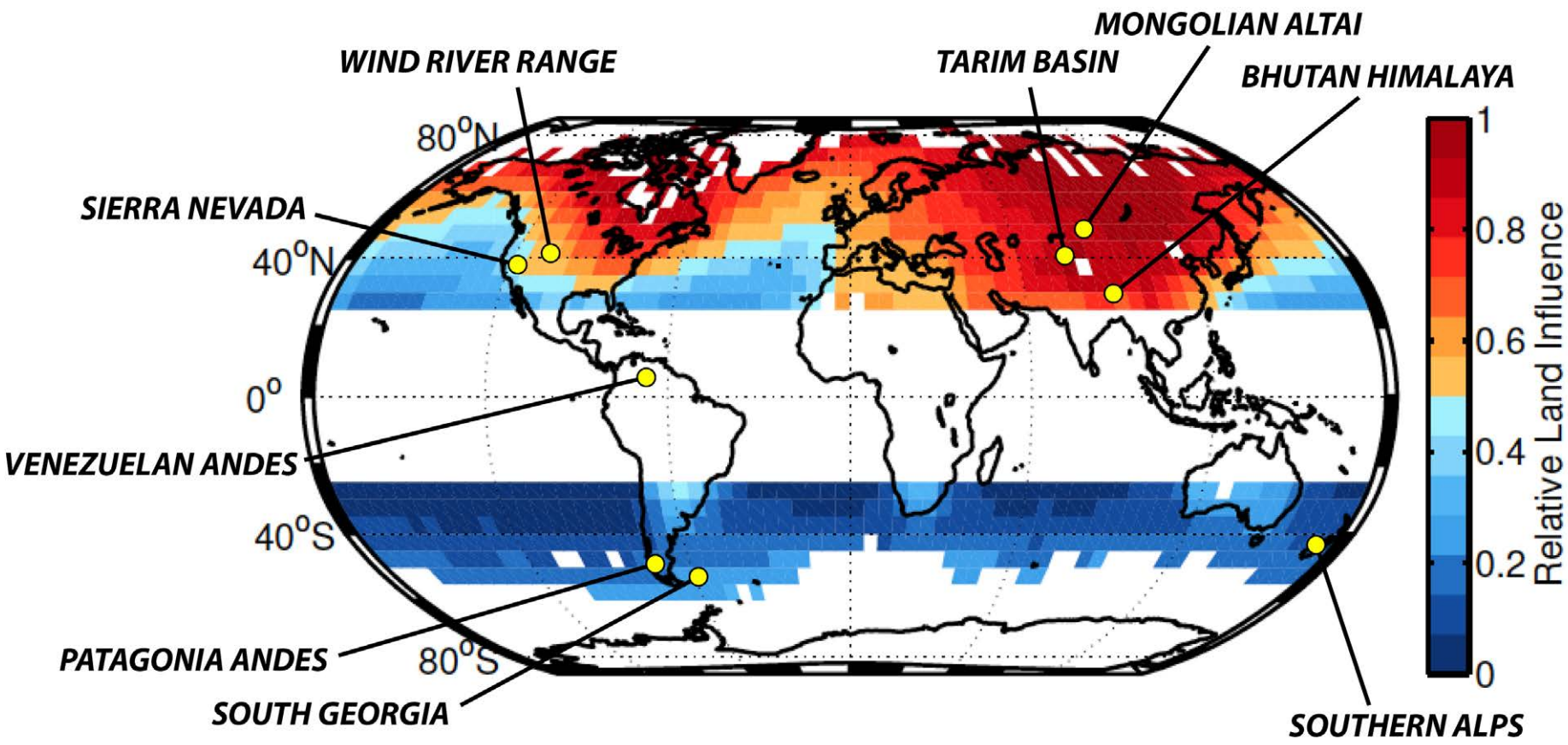


Glacier fluctuations in the Monsoonal Himalaya during the pre-industrial Holocene

Aaron E. Putnam

Lamont-Doherty Earth Observatory

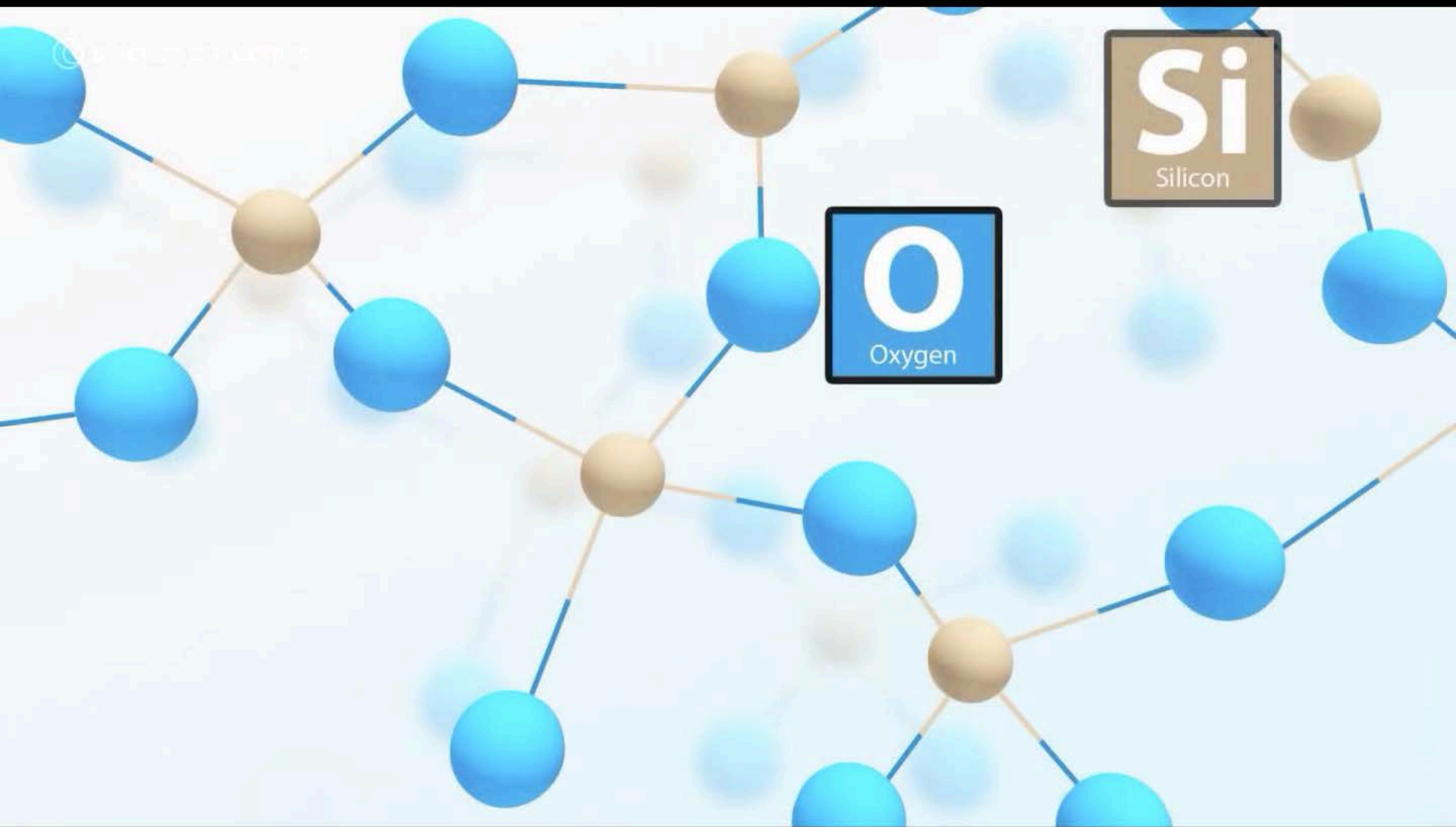


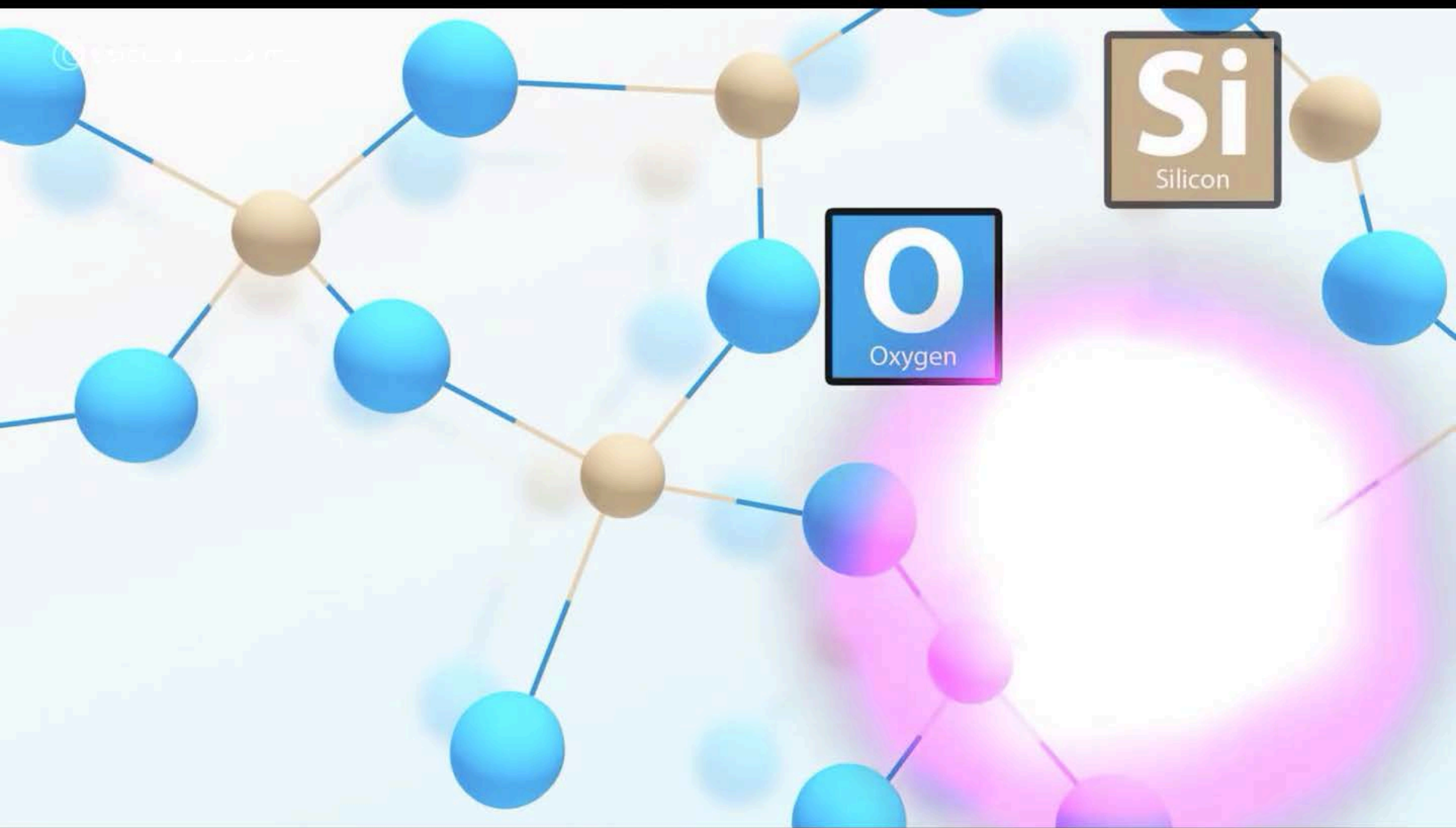




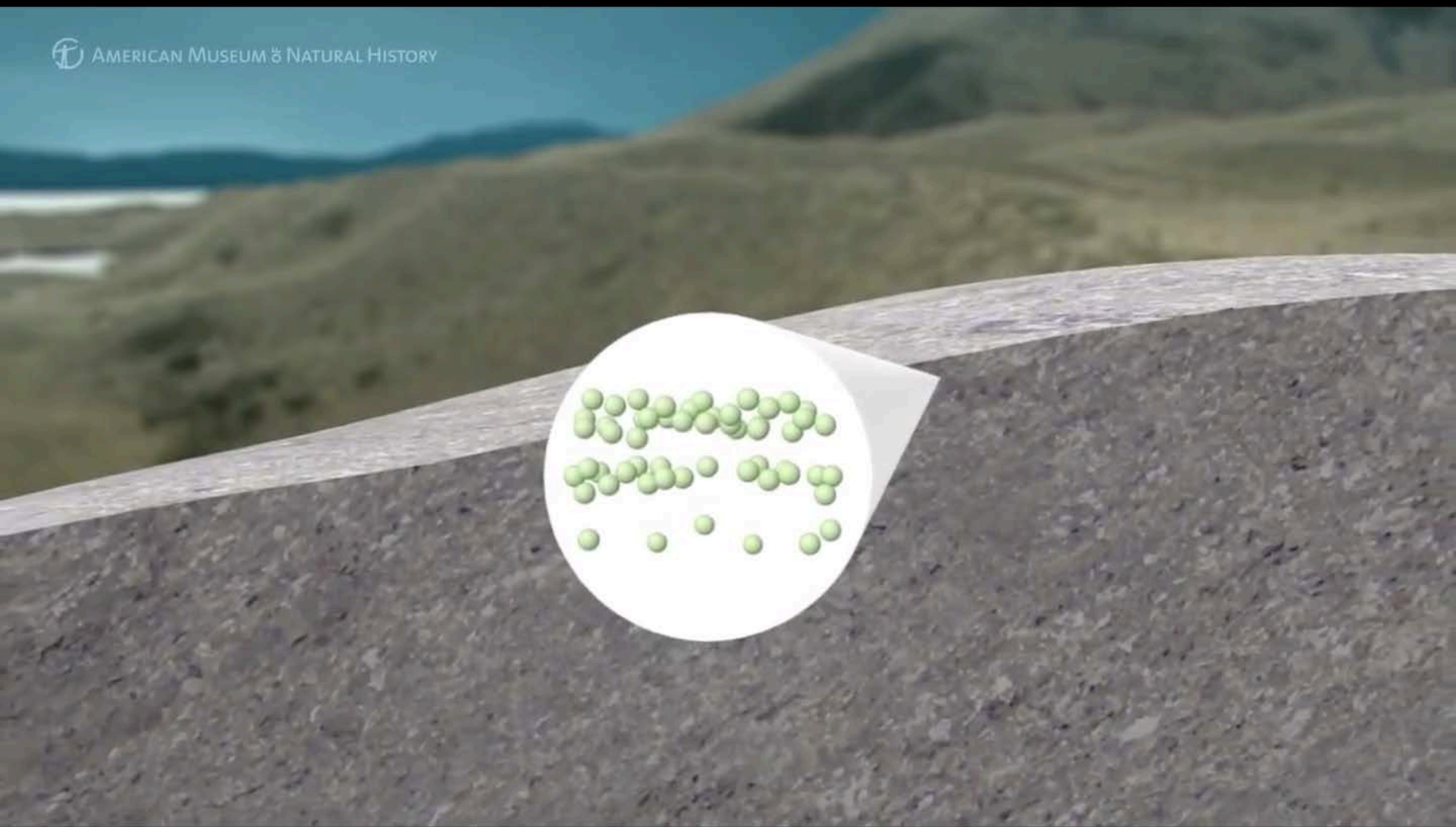


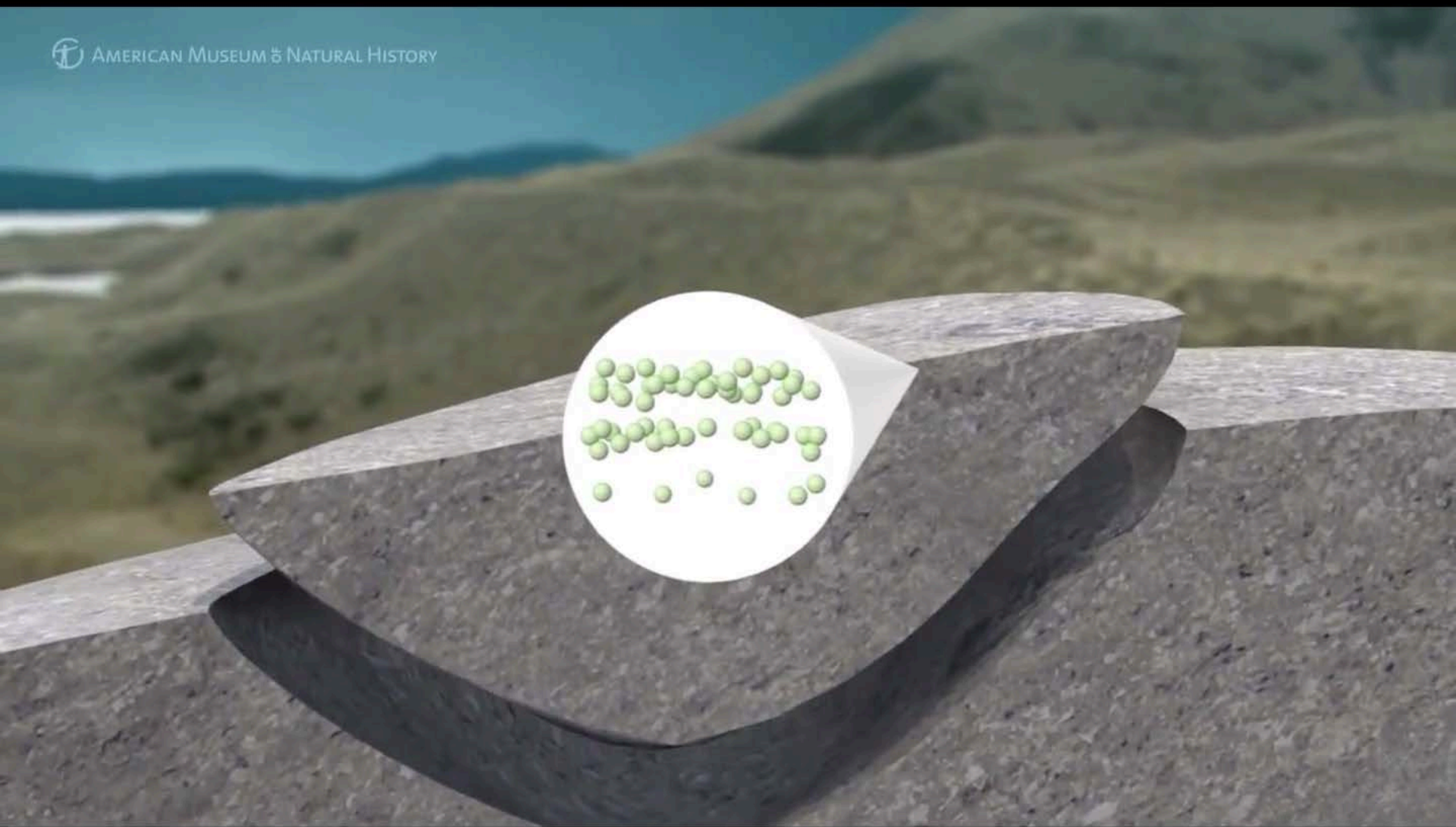


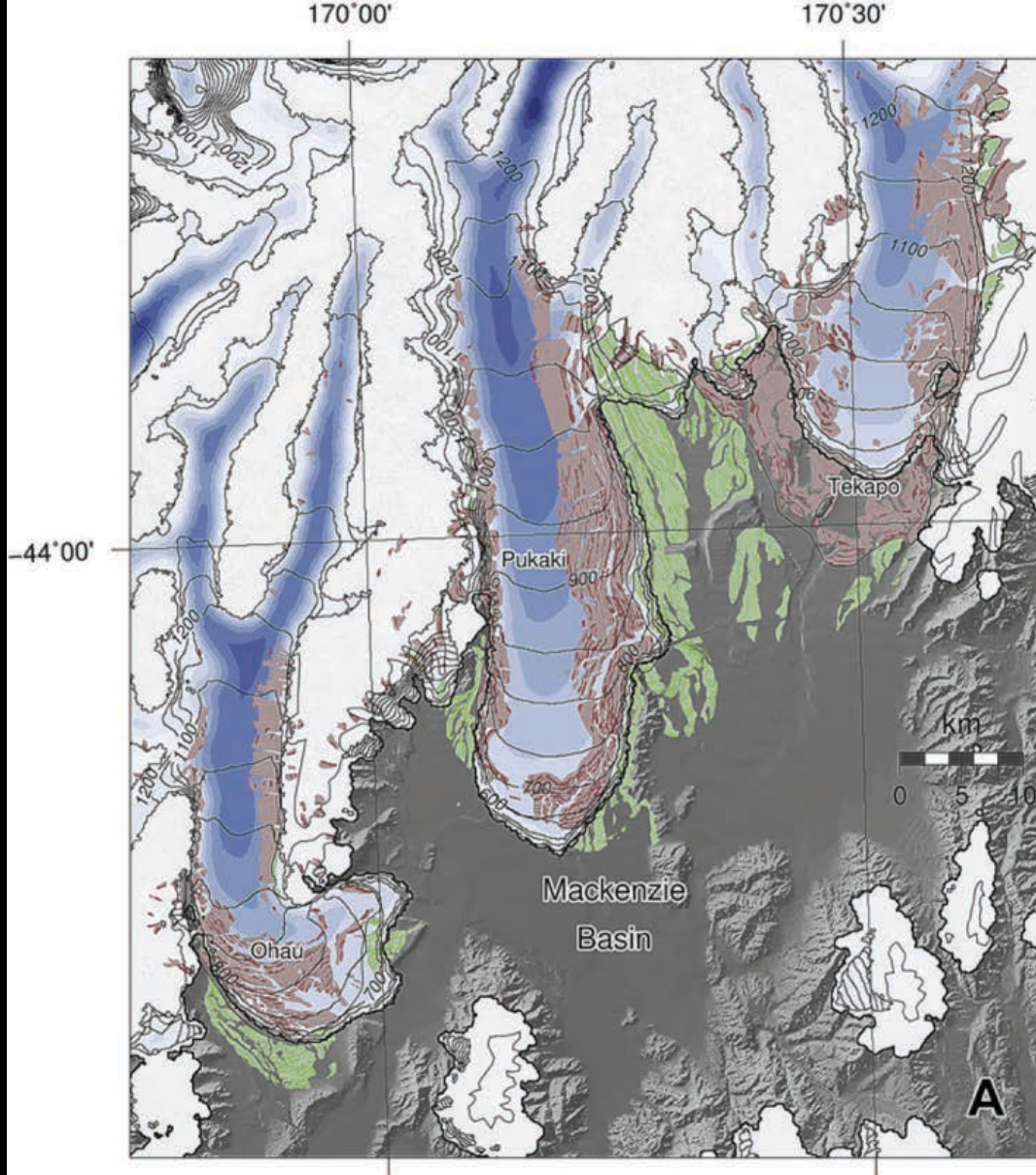








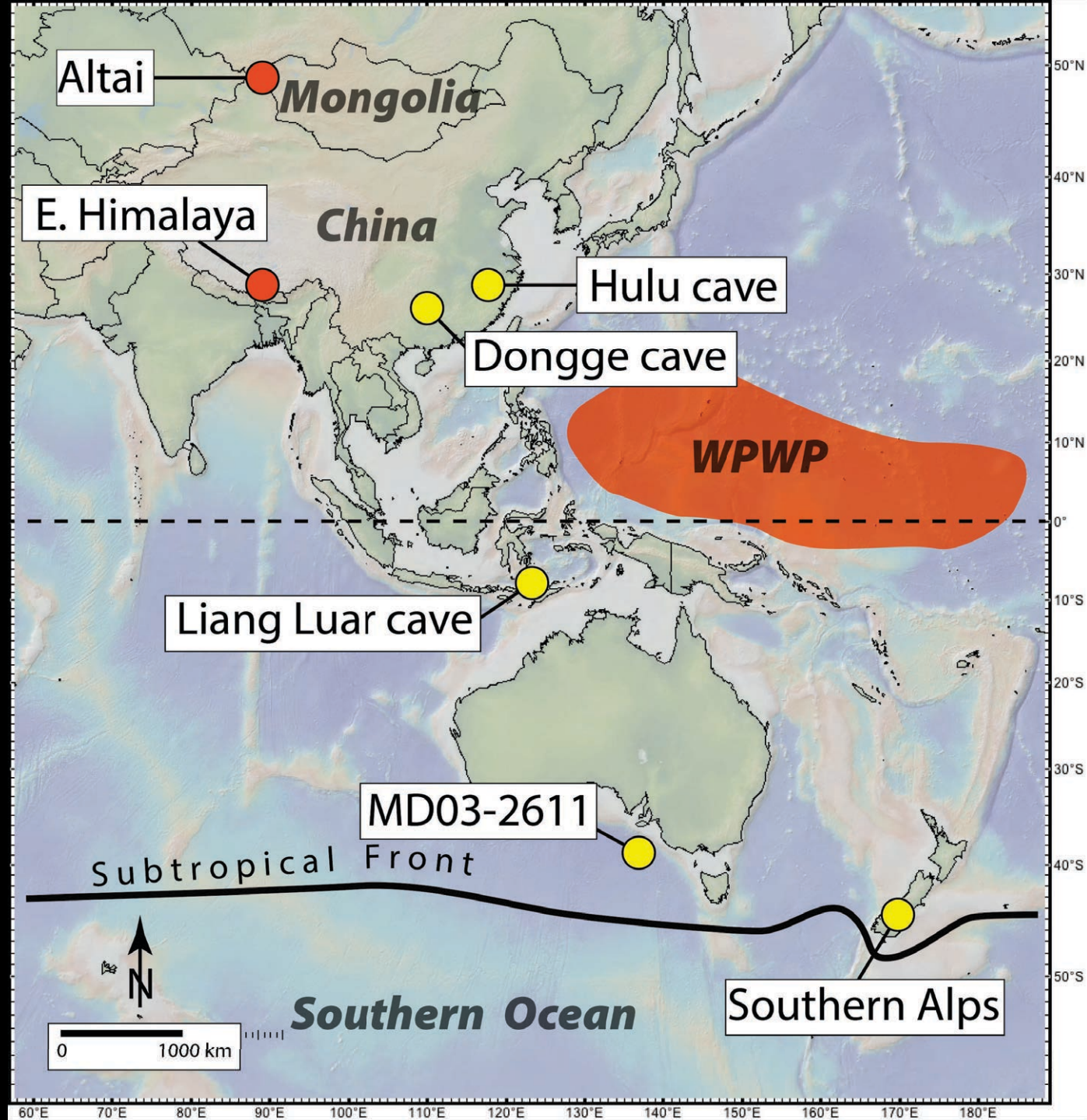




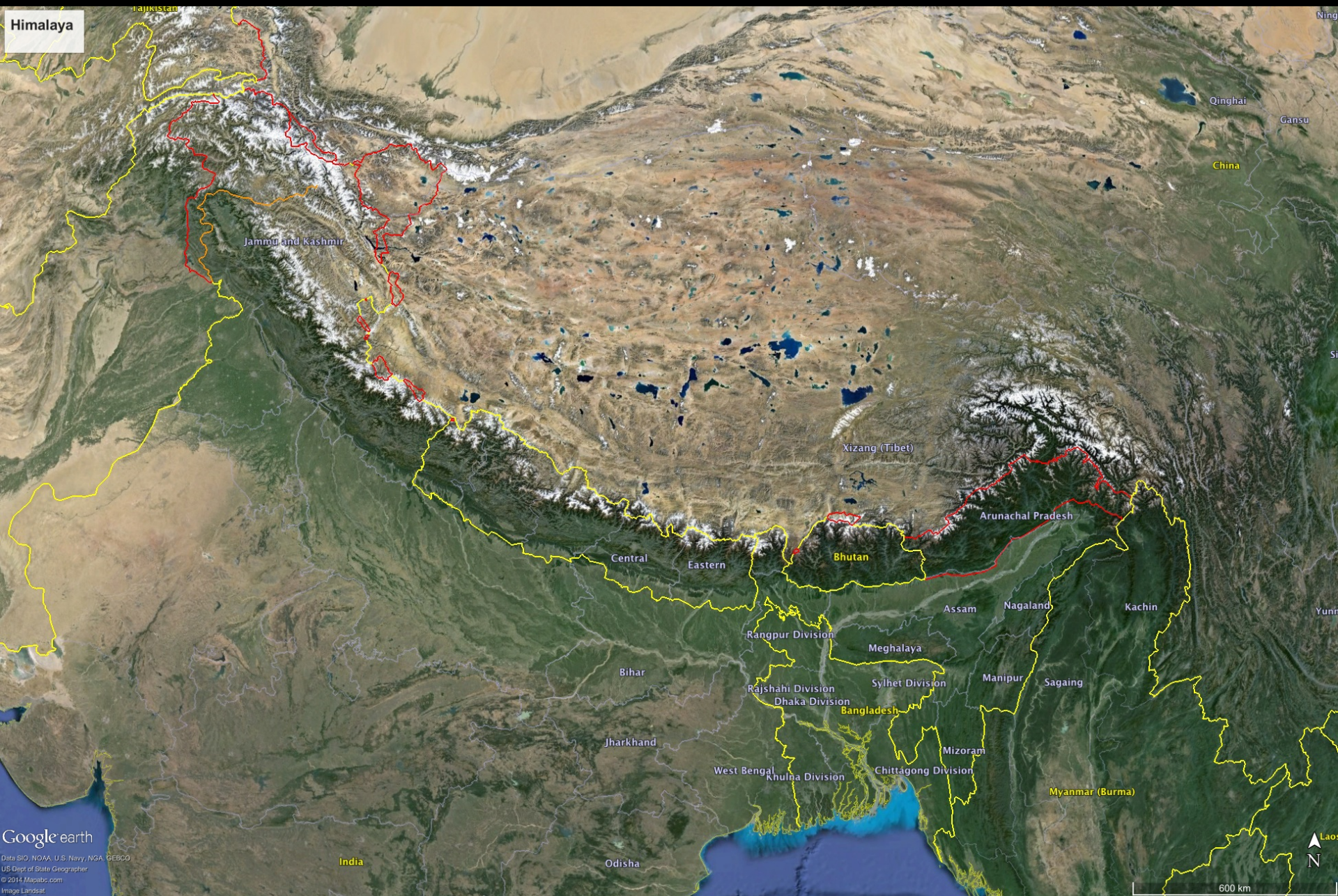
$\Delta T: -6.25 \pm 0.5^{\circ}\text{C}$

Golledge *et al.*, 2012
Birkel *et al.*, 2012

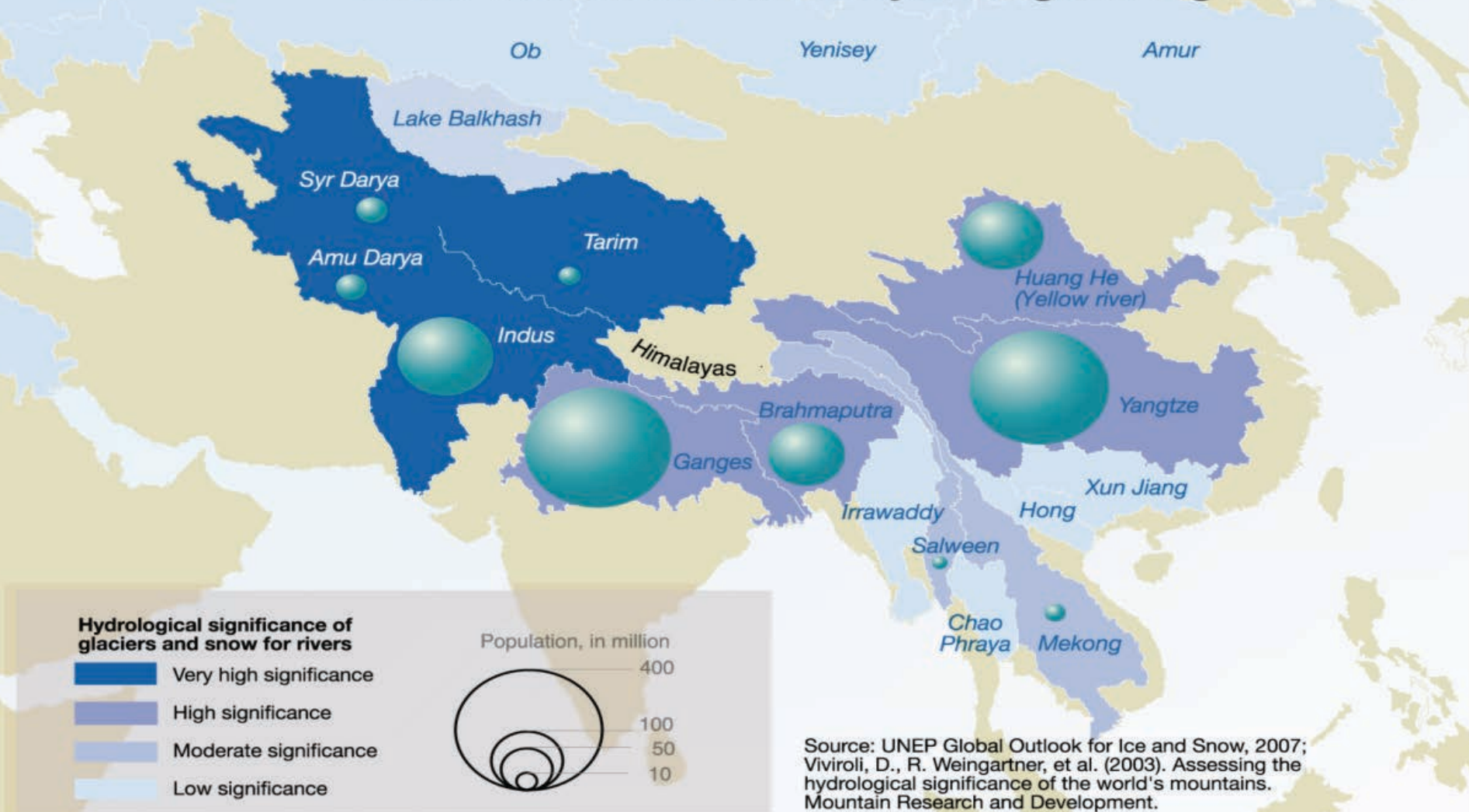
- LGM moraines
- pre-LGM moraines
- modelled ice surface
- geologically inferred LGM limit



HIGH ASIA

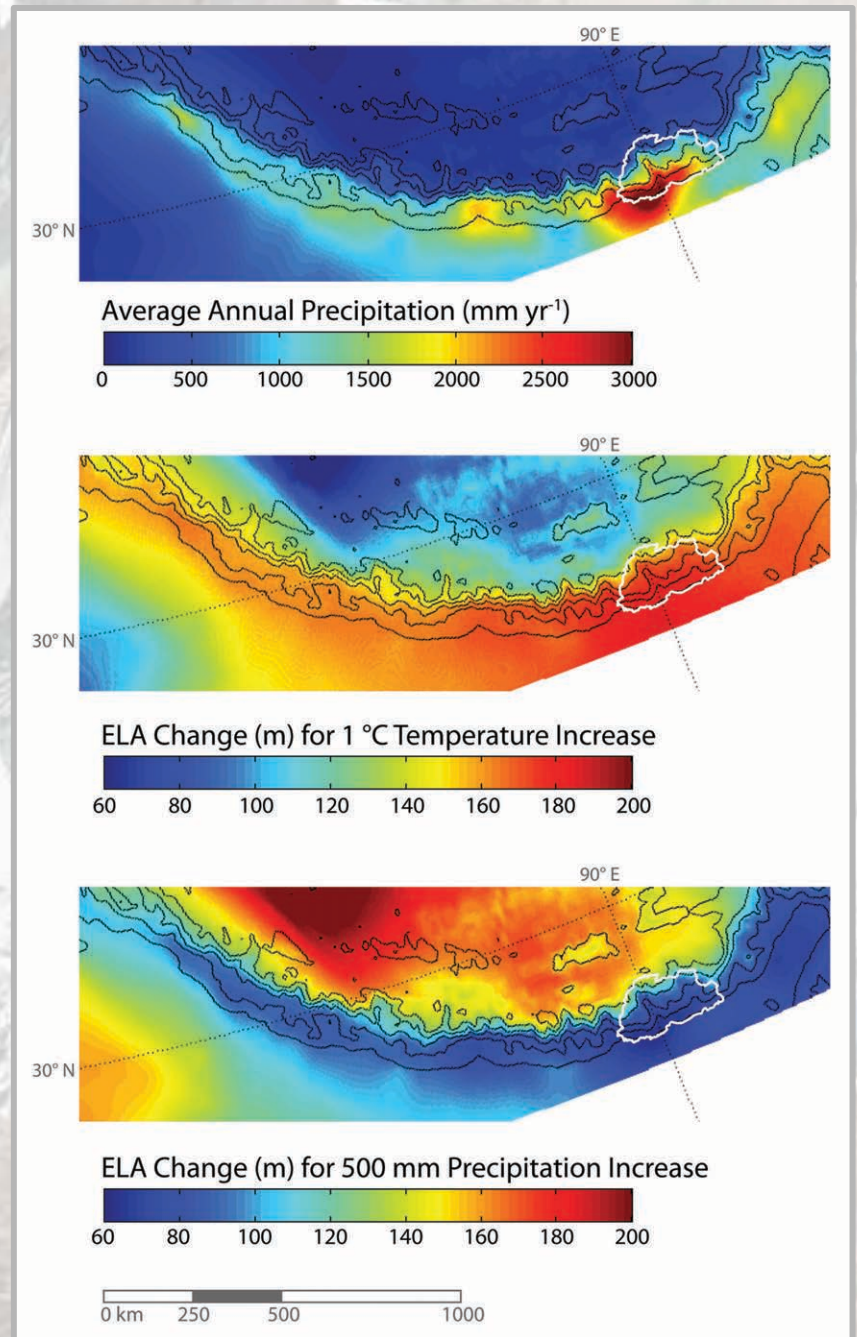


River basins and their hydrological significance



Glacier Sensitivity

High accumulation glaciers are most sensitive to temperature.



BHUTAN HIMALAYA





















**Sampling the Tachanggay Tso
Moraine at 5,200 m or
17,060 ft. asl.**



TGT-12-41

10-8-12 AEP DEP TR PPS 5

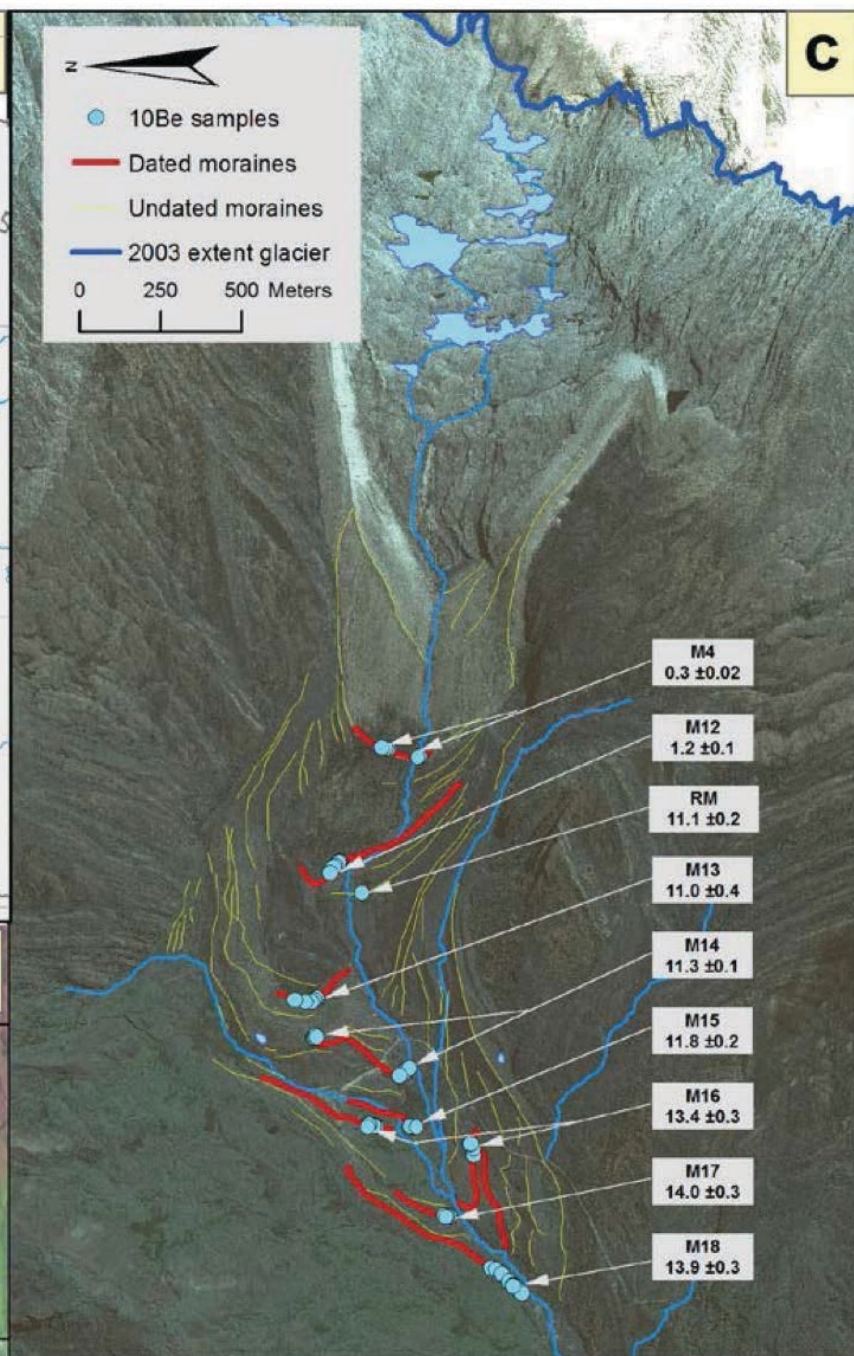
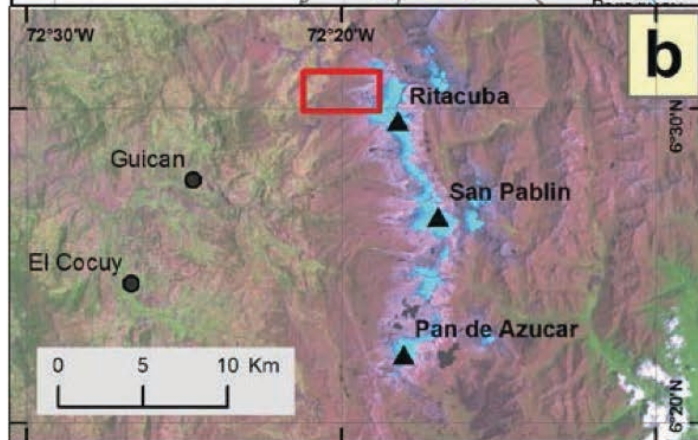
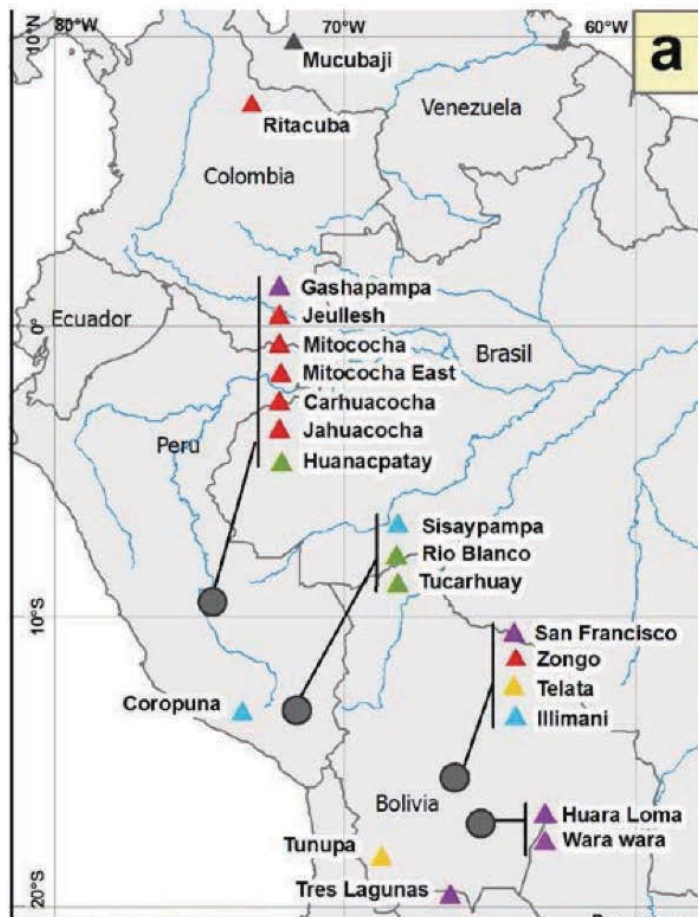
ROUNDED BOULDER IMBEDDED IN ICE-CONTACT
SLOPE OF CREST W.

LAT/LONG N27.8680 E90.2790

EL. 5068 m

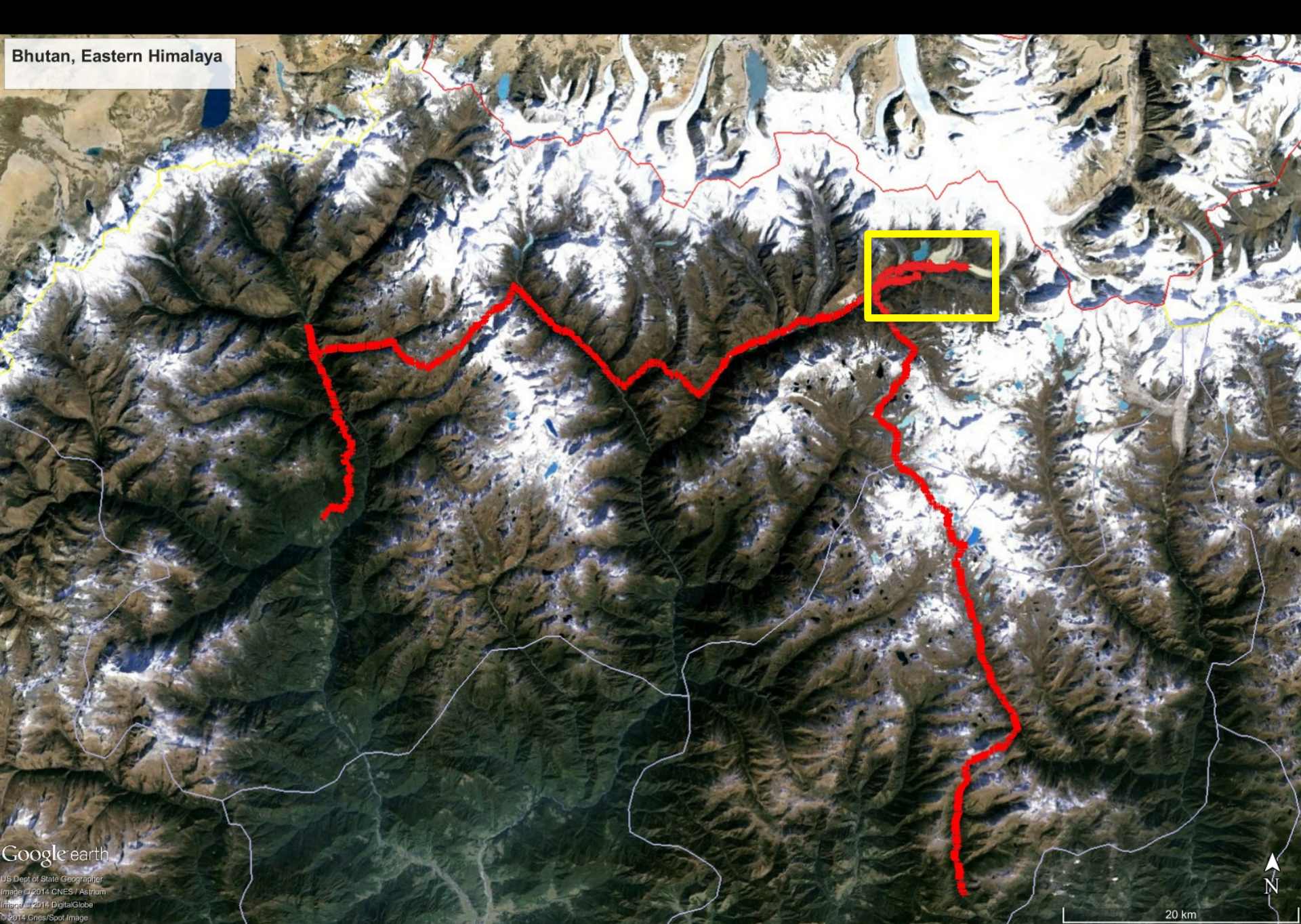
TGT-12-41 10-8-12

AEP DEP TR PPS 5





Bhutan, Eastern Himalaya

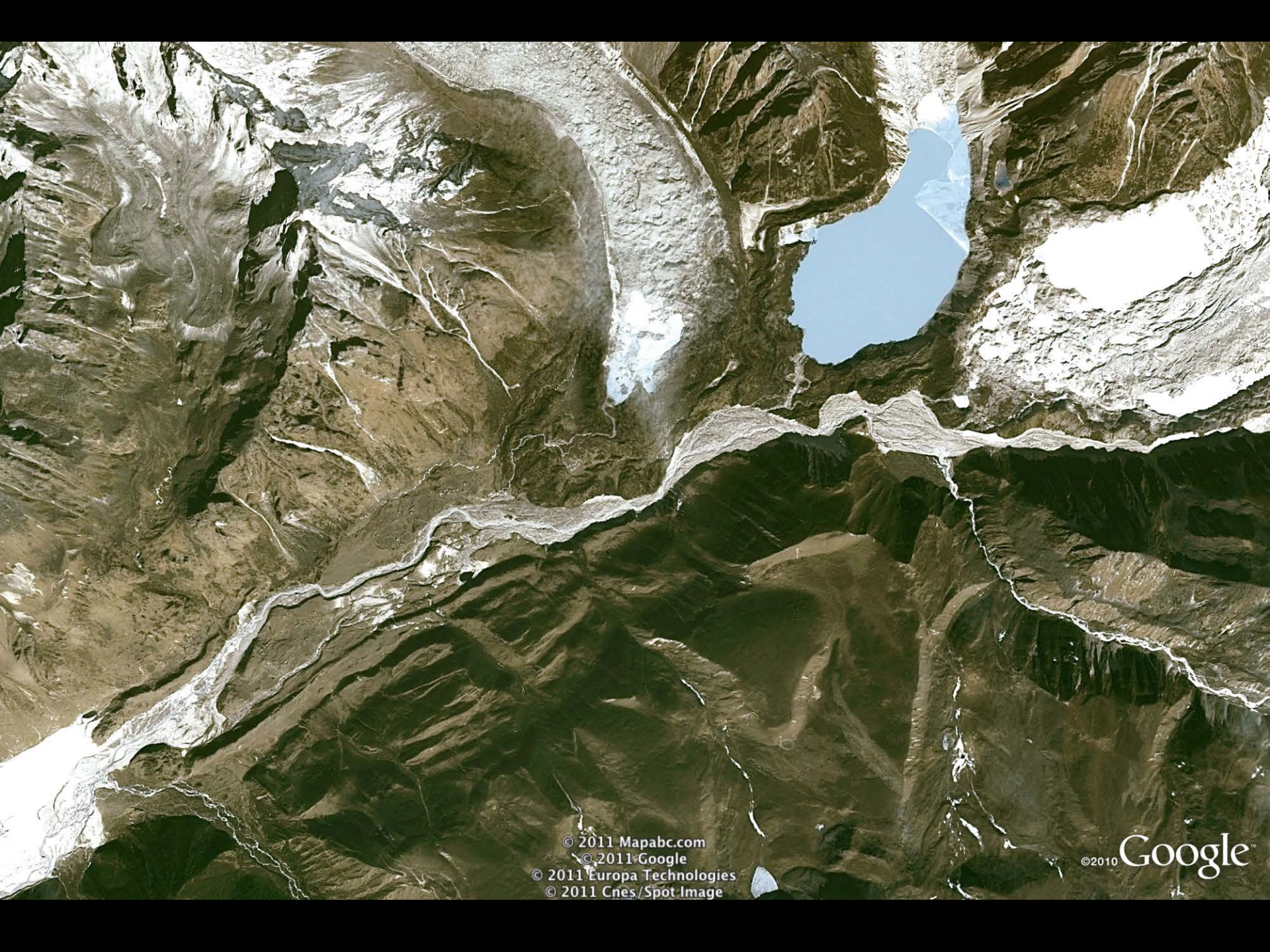


Google earth

US Dept of State Geographer
Image © 2014 CNES / Astrium
Image © 2014 DigitalGlobe
© 2014 Cnes/Spot Image

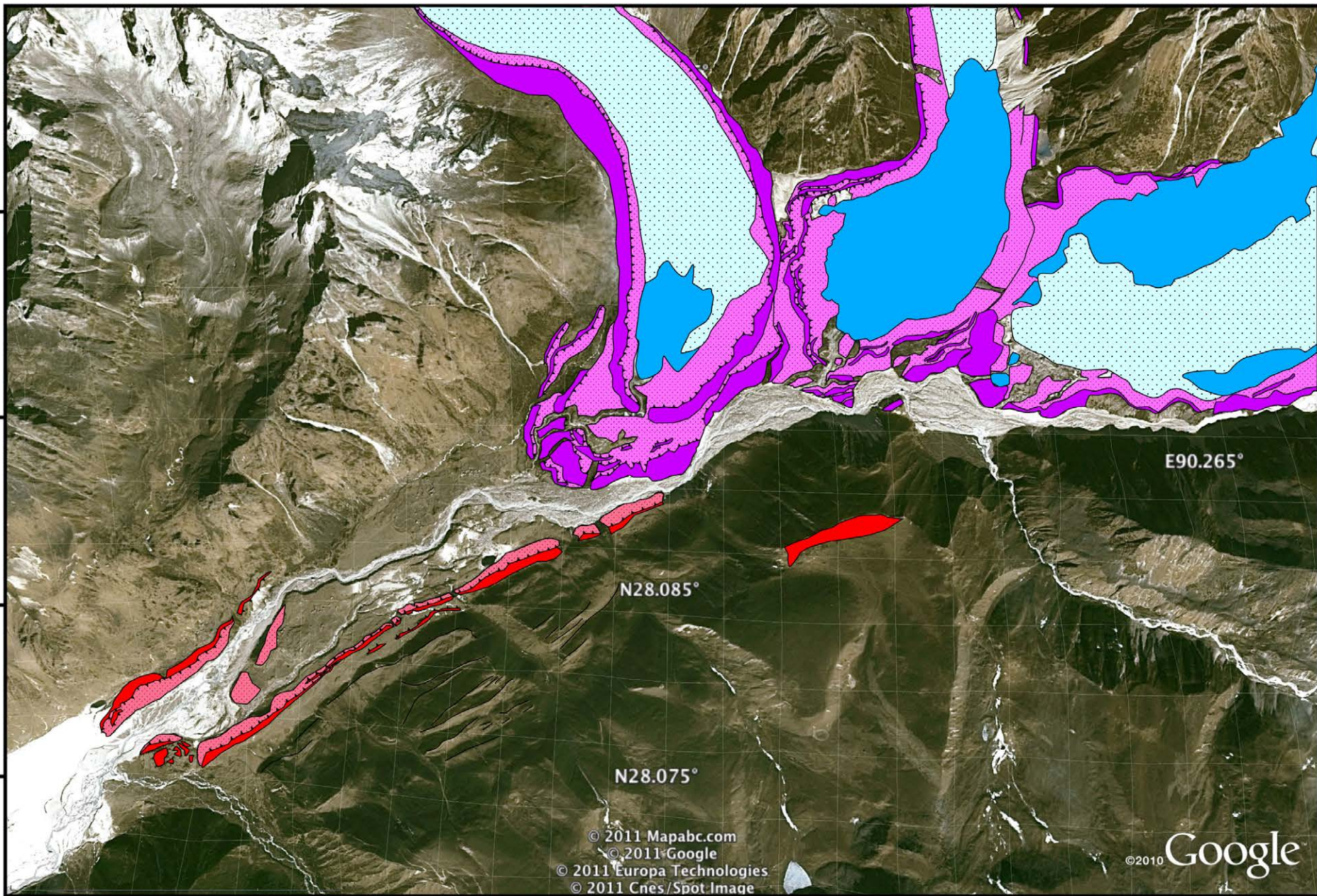
20 km





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©2010 Google™



E90.265°

N28.085°

N28.075°

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