

Status and Change of the Glaciers in High Mountain Asia

Tobias Bolch

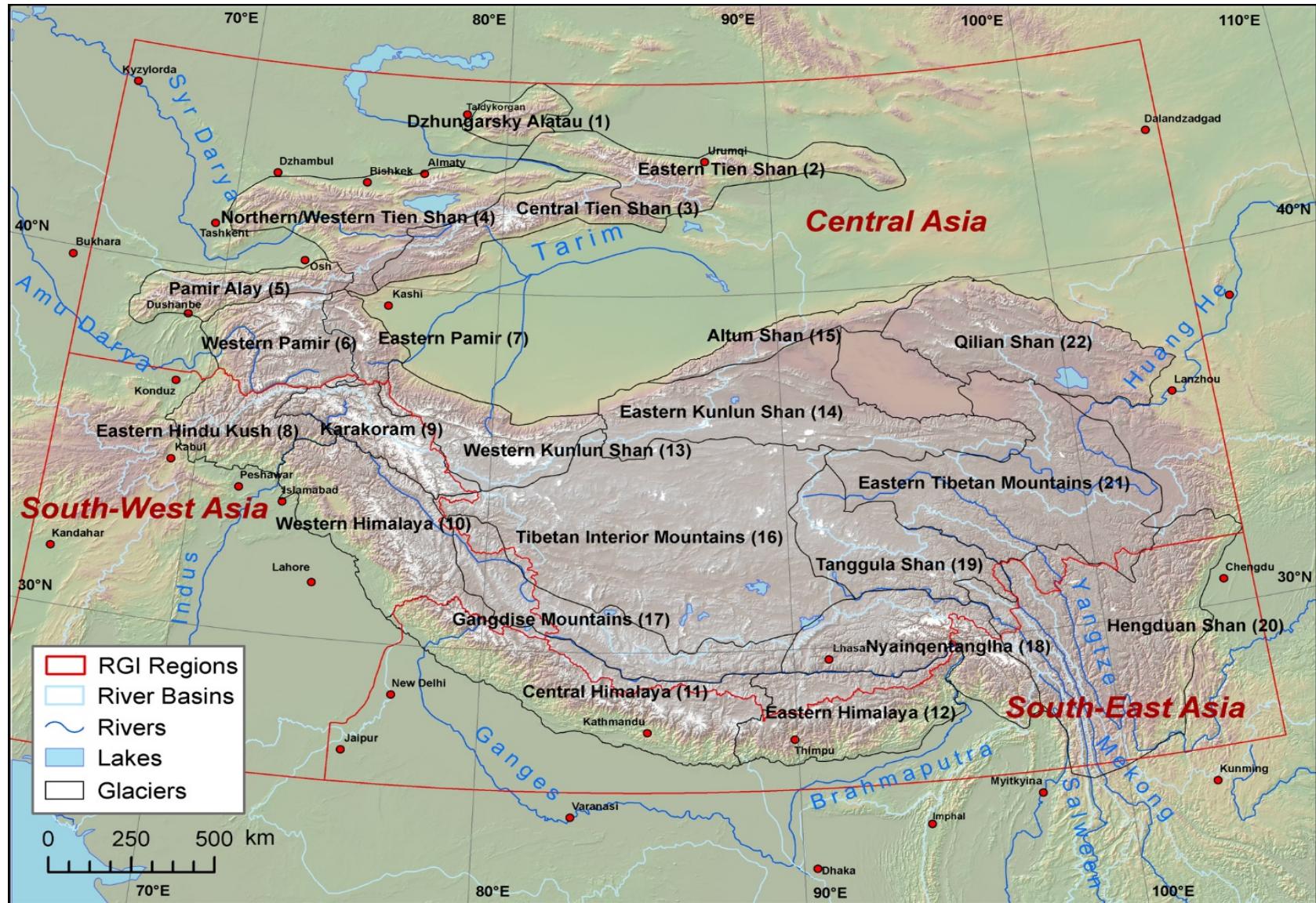
Mountain Cryosphere Research Group

University of Zurich, Switzerland

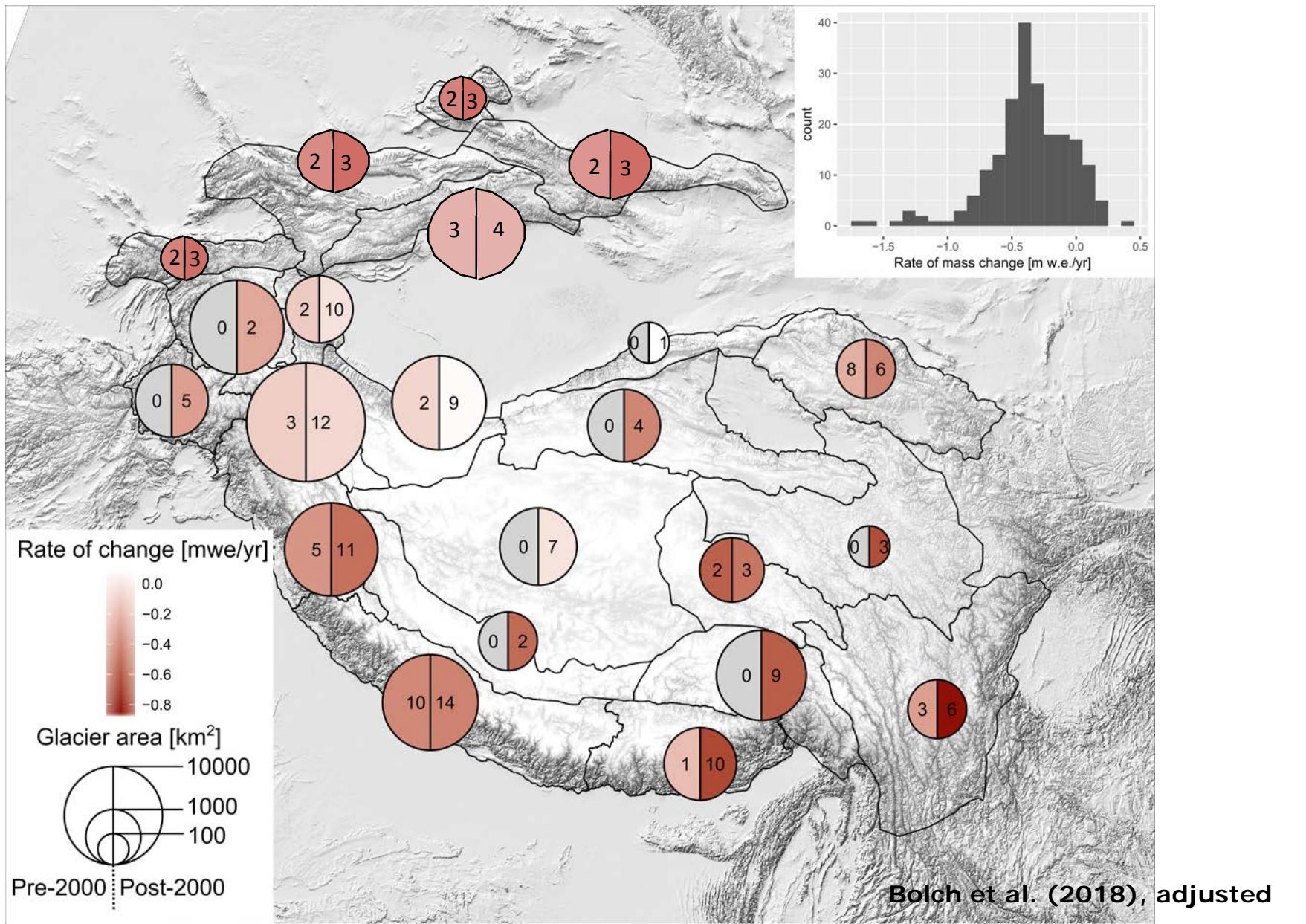
soon at: University of St. Andrews, UK

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Photo: T. Bolch 2017



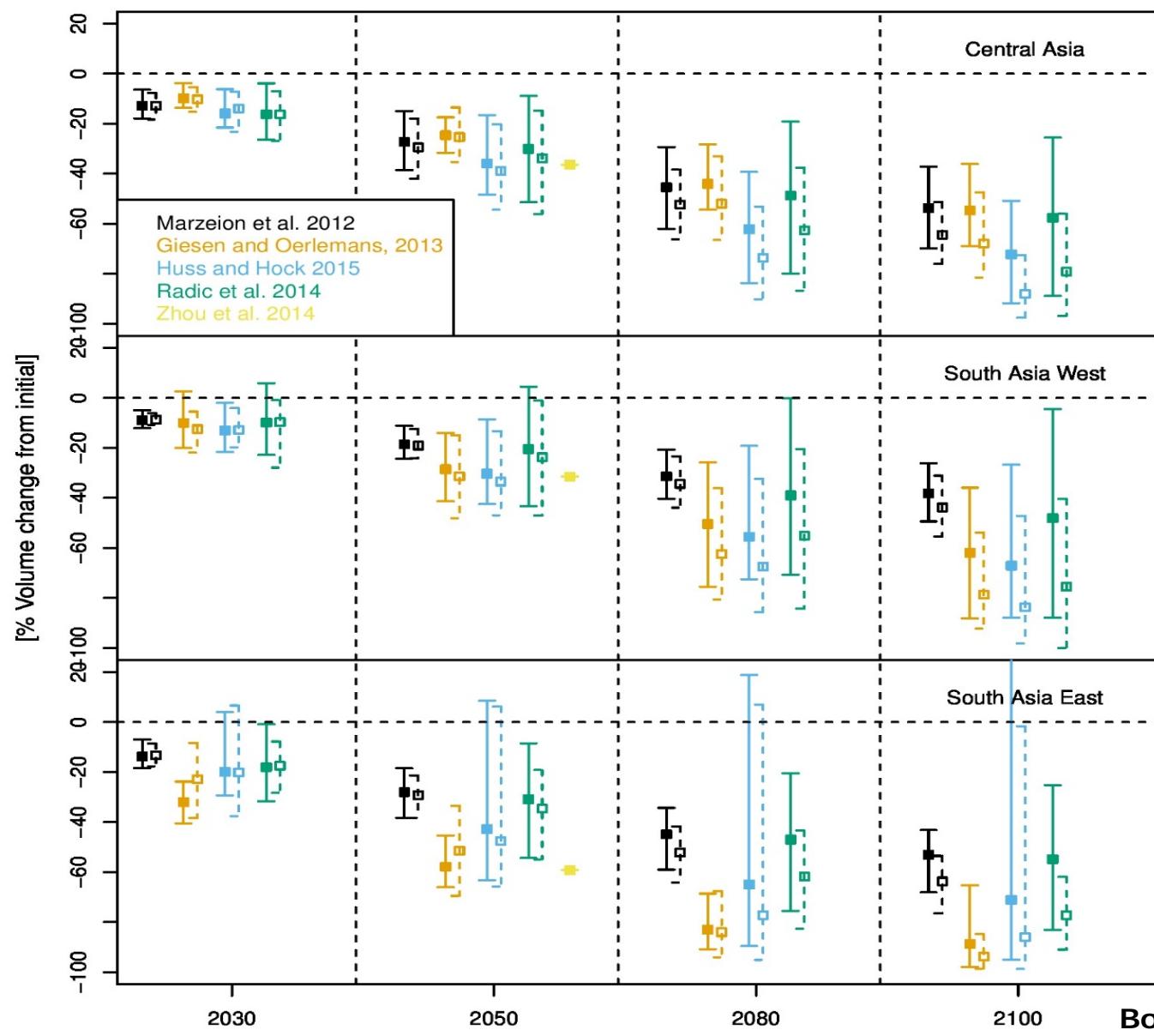
Defined subregions of HMA



Glacier mass changes [m w.e./yr., pre- & post-2000]

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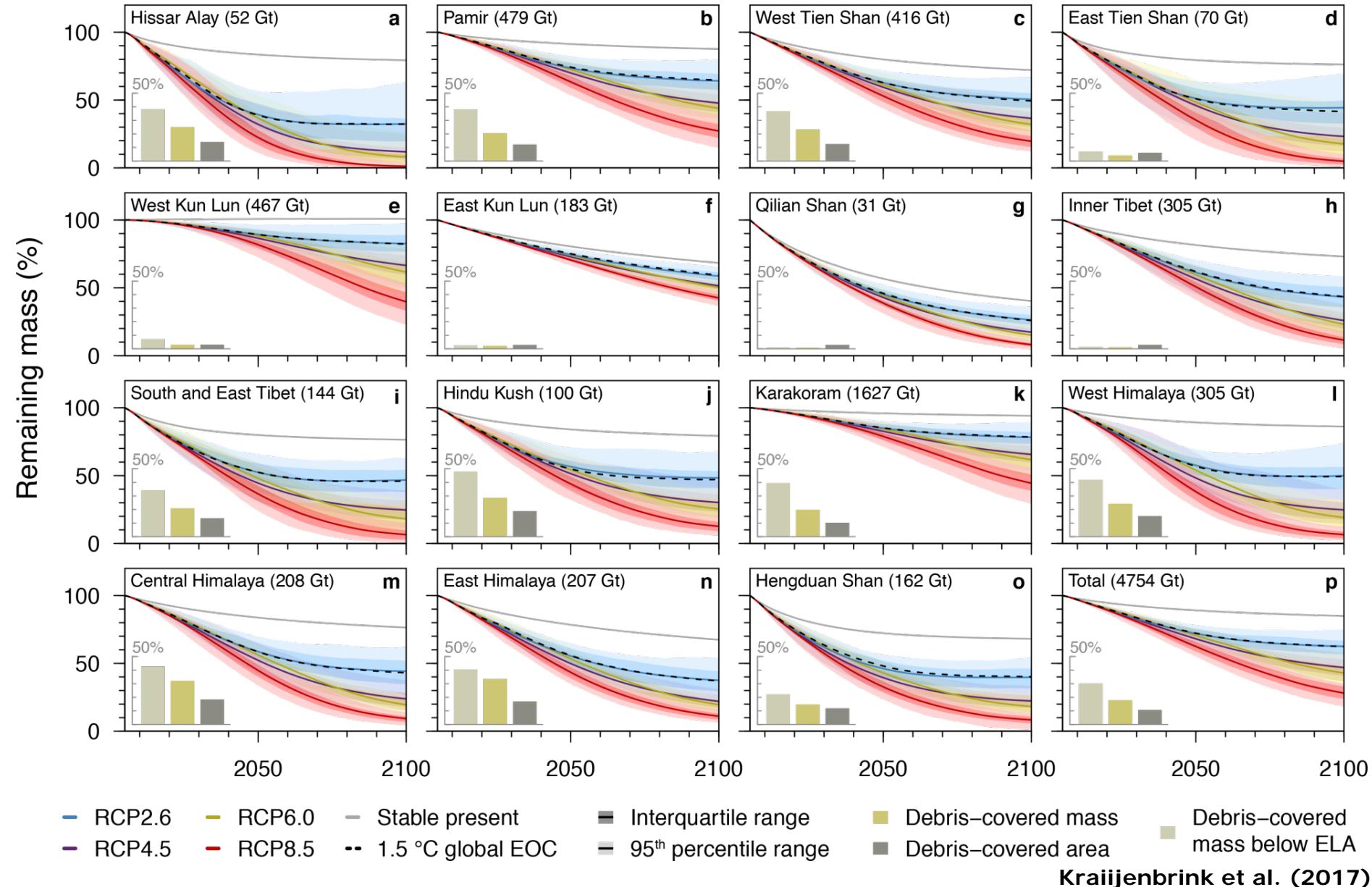
Bolch et al. (2018), adjusted



Bolch et al. (2018)

Projected future glacier changes [% from initial]

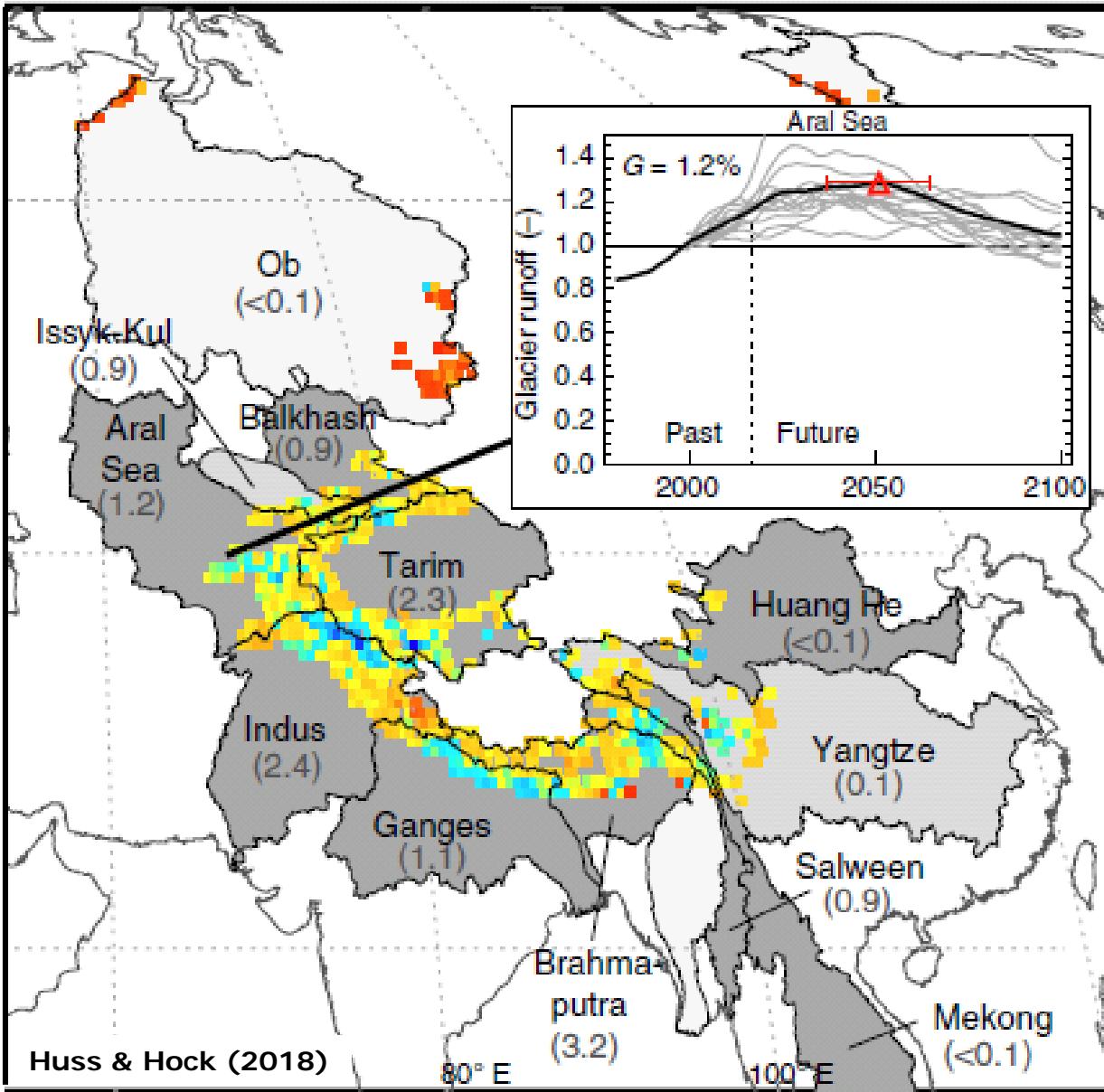
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Kraaijenbrink et al. (2017)

Projected future glacier changes [% from initial]

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Overall importance of glacier runoff

High:

Balkhash, Aral Sea, Tarim, Indus, Issyk-Kul/Chu

Medium:

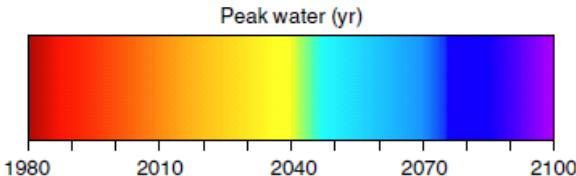
Ganges, Bramaputra

Low:

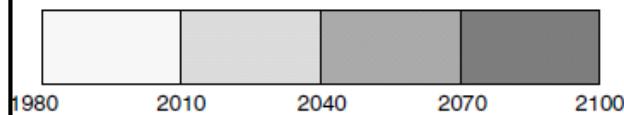
Huang He, Yangzte, Megong, Salween

Legend

Peak water (yr)



River basin Average (yr)



Timing of peak water flow from glaciers

T. Bolch