

Interactive comment on “Significant recent warming over the northern Tibetan Plateau from ice core $\delta^{18}\text{O}$ records” by W. An et al.

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Received and published: 7 November 2015

The revised manuscript and supplementary materials for the paper “Significant recent warming over the northern Tibetan Plateau from ice core $\delta^{18}\text{O}$ records” (CP-2015-69) by W. An et al. ” are in the attached zip file.

Please also note the supplement to this comment:

<http://www.clim-past-discuss.net/11/C2255/2015/cpd-11-C2255-2015-supplement.zip>

Interactive comment on Clim. Past Discuss., 11, 2701, 2015.

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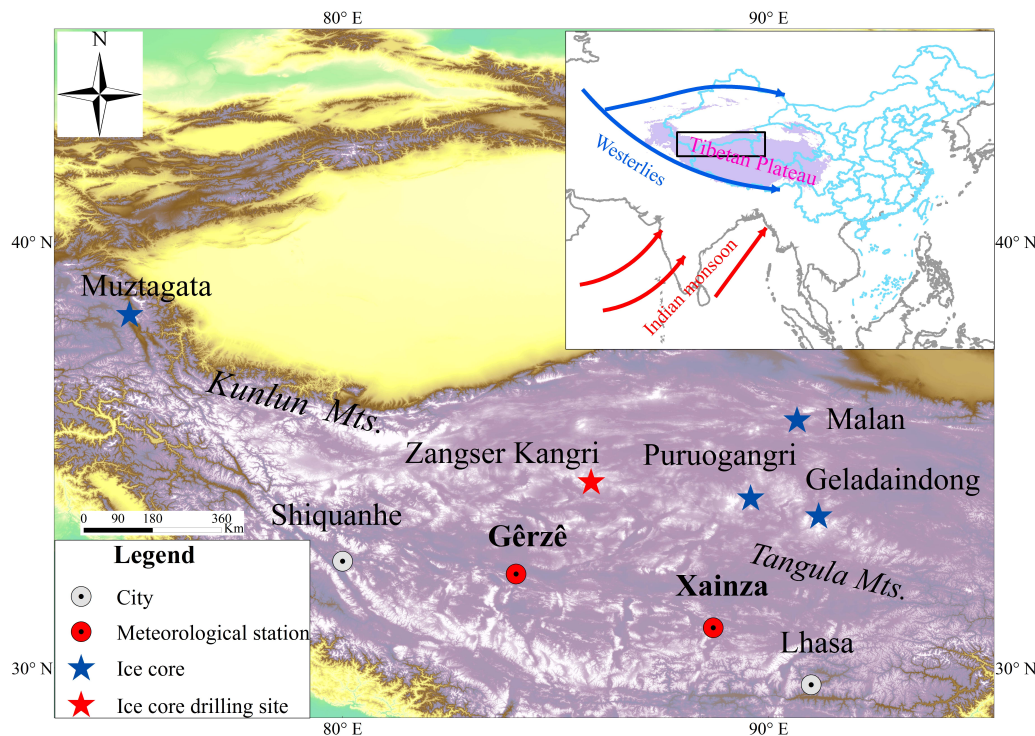


Fig. 1. Location of the ice core drilling site of ZK, two nearby meteorological station sites, and the location of other ice cores described in the text: Muztagata (Tian et al., 2006), Puruogangri (Yao et al

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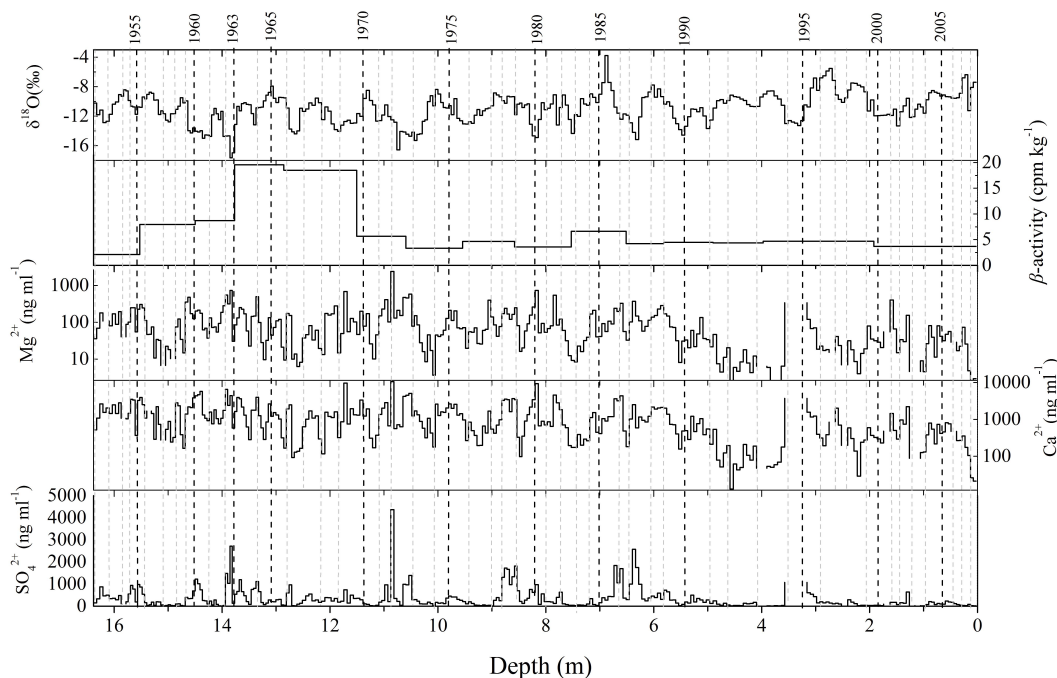


Fig. 2. Variations of $\delta^{18}\text{O}$ in the ZK ice core and other data used for dating, including beta activity and major ion concentrations. We calculated the logarithm to the base 10 for the concentrations of the Ca^{2+}

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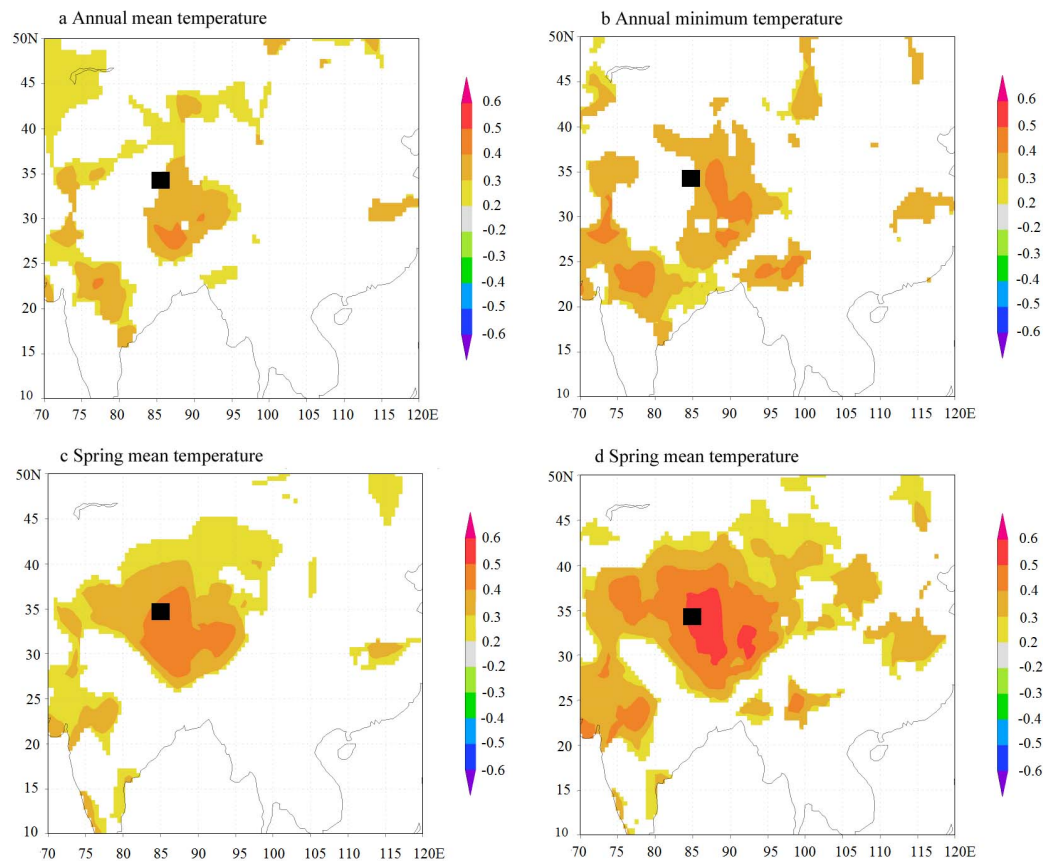


Fig. 3. Spatial correlations of ZK ice core $\delta^{18}\text{O}$ record with CRU-gridded (Mitchell and Jones, 2005) annual mean temperature (a), annual minimum temperature (b), spring mean temperature (c), and spring minimum (d).

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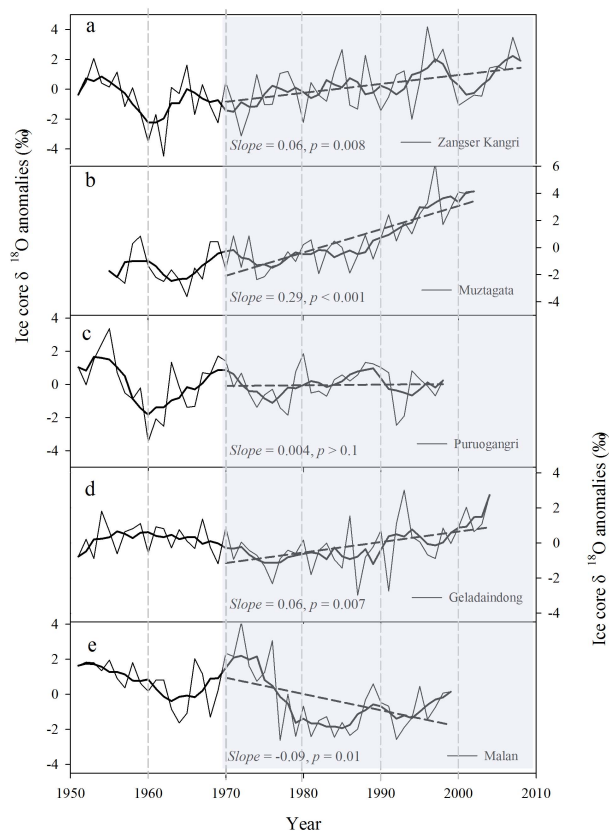


Fig. 4. Comparison of the anomalies of $\delta^{18}\text{O}$ records in the ZK ice core (a) with $\delta^{18}\text{O}$ records from Muztagata (b), Puruogangri (c), Geladaindong (d) and Malan ice cores (e). Thin lines represent annual values,

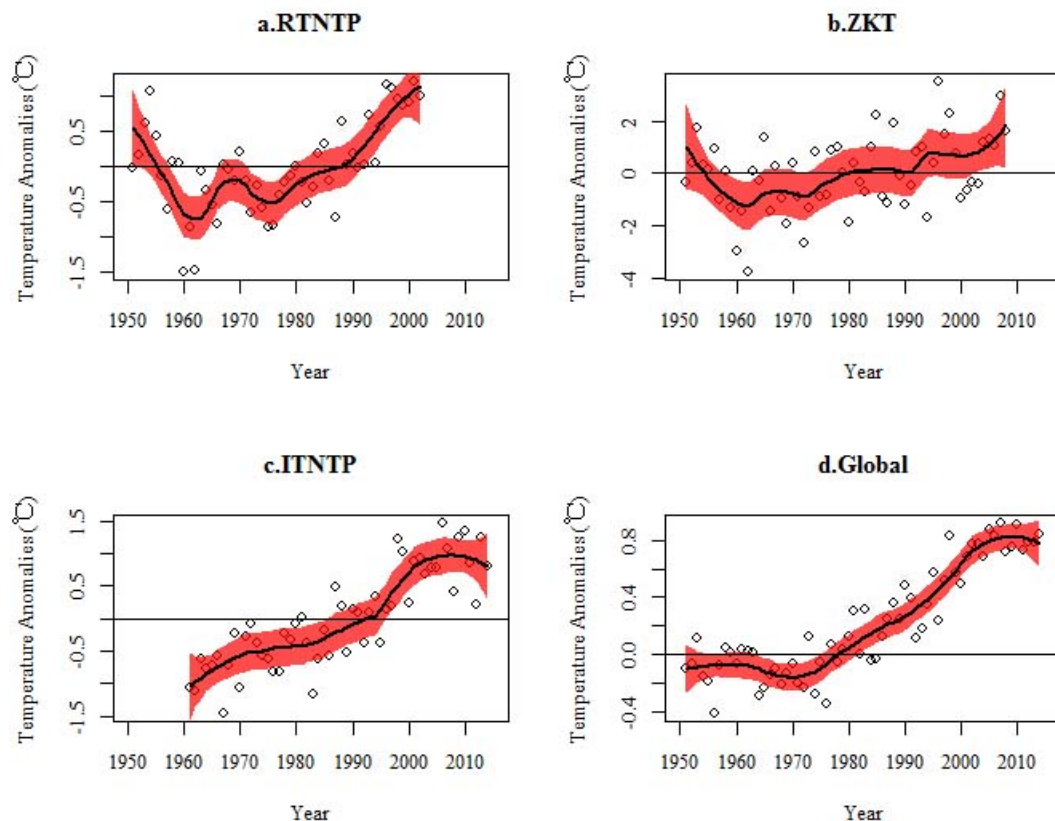


Fig. 5. The reconstructed regional temperature series for northern Tibetan Plateau (RTNTP) from ZK, Muztagata, Puruogangri and Geladaindong ice core $\delta^{18}\text{O}$ records (a), the reconstructed temperature series from

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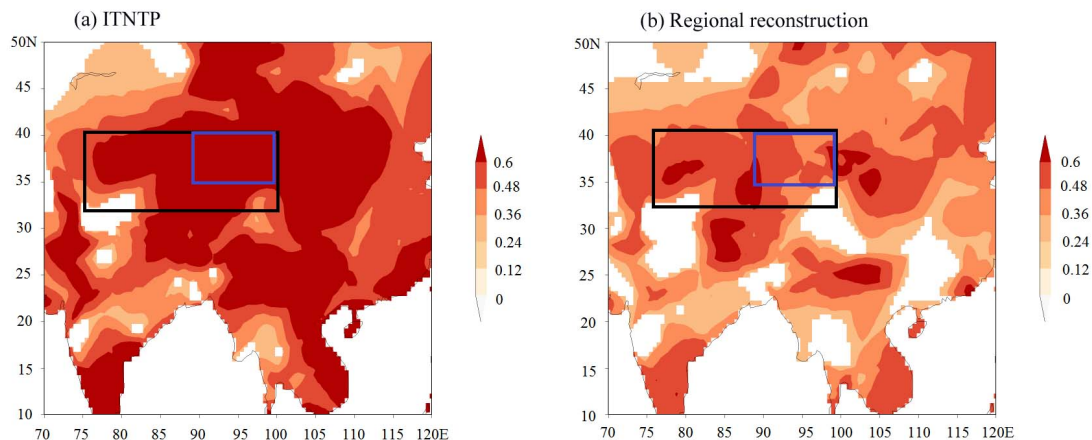



Fig. 6. Spatial correlations (r values in color, $p < 0.01$) between the gridded annual mean temperature data (the CRU 4 temperature time series, $0.5^\circ \times 0.5^\circ$ resolution, Mitchell and Jones, 2005) and the instru

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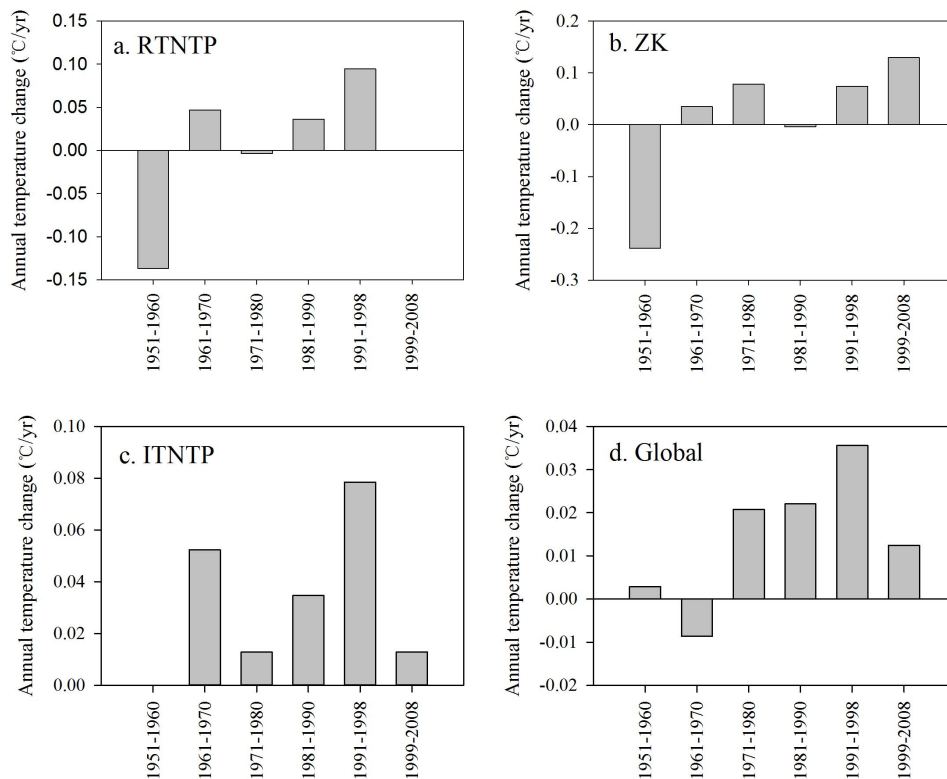


Fig. 7. Decadal mean annual change rates for the regional temperature reconstruction series for northern TP (RTNTP) (a), the temperature reconstruction from ZK ice core $\delta\text{A}\delta\text{18O}$ record (ZK) (b), the instrumental