

Zoom Meeting

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Recording...

The pollen footprint of the Asian Summer Monsoon on the Tibetan Plateau

Jinfeng Li

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The pollen footprint of the Asian Summer Monsoon on the Tibetan Plateau

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Page 1 of 1 0 words English (United States)

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The Tibetan Plateau



Rooftop of the World
With an area of 2,500,000 square kilometres and an average elevation exceeding 4,500 metres.

Third Pole
Its ice fields contain the largest reserve of fresh water outside the polar regions.

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Herbaceous pollen is predominant

- Cyperaceae: 25.45% (0–99.98%)
- Artemisia*: 11.45%, (0–98.24%)
- Poaceae: 7.17% (0–63.19%)
- Chenopodiaceae: 6.10% (0–100%)



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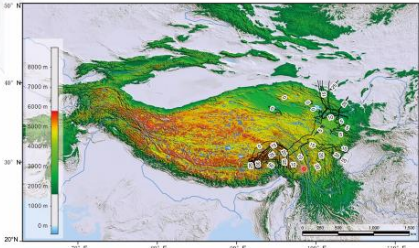
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Angiospermous tree pollen distribution



The distribution of the angiospermous tree pollen is more concentrated.

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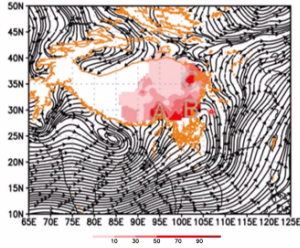
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Further proof

(c) JJA 850hPa streamline



Climatological mean streamlines (1980-2016) at 850 hPa

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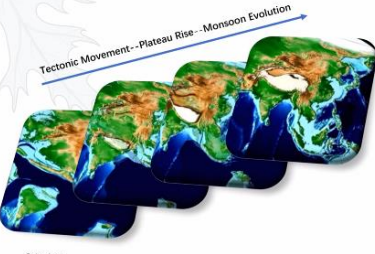
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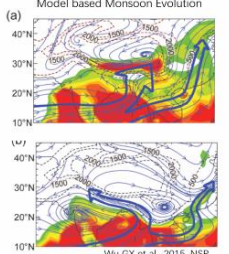
Important basis for the study of monsoon evolution in the past



Tectonic Movement--Plateau Rise--Monsoon Evolution

PaleoAtlas

(a) Model based Monsoon Evolution



Wu GX et al., 2015, NSR

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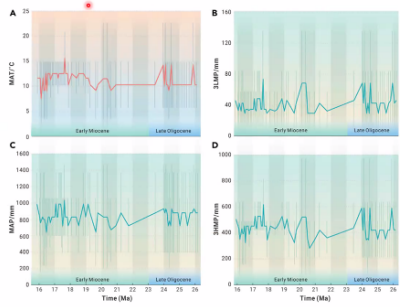
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Climate data for central Tibet from 26 to 16 Ma



A Mean Temperature (°C)

B Precipitation (mm)

C Mean Temperature (°C)

D Precipitation (mm)

Time (Ma)

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Temperature curves for central Tibet, central Europe, and the global deep sea during ca. 26–16 Ma

White line: MAT in central Europe, from Mosbrugger et al., 2005.

Blue line: benthic foraminiferal oxygen-isotope curve (δ) in the deep sea, from Westerhold et al. 2020.

Red line: MAT in central Tibet.

Time (Ma)

δ¹⁸O (‰)

Early Miocene

Late Oligocene

26 25 24 23 22 21 20 19 18 17 16

25 20 15 10 5 0

1.6 2.0 2.4

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Palaeo-monsoon

- How to define the monsoon?
- Modern monsoon:
 - range of precipitation: summer – winter > 180 mm
 - Proportion of summer precipitation (Jun to Aug) > 35%
 - 3HMP and 3LMP

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Conclusions

- Reconstructed the precipitation changes in central Tibet during 26-16 Ma.
- Depicted the early evolution of Asian monsoon using the modern monsoon definition.
- Explained the occurrence of the paleo-monsoon by paleoclimate modeling.
- Revealed that long-period orbital forcings is responsible for the monsoon evolution.

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Reconstructed ecosystem around the Lunpola paleolake

(g)



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Correction of paleoaltitude

$$\Delta H = (\Delta T1 + \Delta T2) / 6.74 \text{ to } 6.9 \times 1000$$

ΔH is the correction value of the paleoaltitude;
 $\Delta T1$ is the temperature difference caused by the latitude difference;
 $\Delta T2$ is the surface sea temperature difference between ~24.1 Ma and the present

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