



Asian Monsoon History over the last 640,000 years, implications for orbital and millennial-scale climate change around the world.

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We now have continuous records of the Asian Monsoon covering the last 640,000 years. The records, largely from Chinese Caves, are precisely dated with U-Th methods and have multi-decadal or better oxygen isotope resolution. The monsoon has millennial-scale and centennial-scale features as well as a clear orbital-scale response. Furthermore, the monsoon record can be correlated with some marine and ice core records. I will discuss the implications of this record with regard to the timing and causes of orbital-scale climate change, sub-orbital scale climate change and glacial terminations, including the last 7 terminations.