



Milankovitch-scale climate in Australasia

Hello Quaternary Geologists!

Welcome to our next reading - Kershaw et al., 2003! We'll use this article to discuss Milankovitch cycles, and Quaternary climate proxies such as marine sediment cores. Take your time and soak up the details! Lots of examples and applications in this reading.

Your answers should summarize information from the article in your own words - this takes time, but is a highly useful skill. Avoid simply listing every example from the article, or cutting and pasting article text into the form.

Please complete this form by the end of the day Sunday, January 30th, so I can review your responses before class Monday morning.

Can't wait to discuss this research with you!!

Claire

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* Required

Email *

Your email

Section 1 - What is the authors' research question? What terrestrial and marine * processes are related to this question?

Your answer

Section 2 - The authors describe the four core sites used for this article. What * distinguishes these sites from each other, and why are these differences important? (Note - practice synthesizing article information into your own words; do not just list each site and its characteristics)

Your answer



Section 3 - What measurements or data are collected from the sediment cores? How do the authors connect these measurements to Milankovitch cycles? [Hint - this second question is our first encounter with a numerical technique! Take the time to think about this and provide a clear explanation!]

Your answer

Section 4 - Marine sediment core research requires very, very careful observations and analysis of the core material - why? Use specific information in this section to explain the challenges of assembling a paleoclimate record from marine sediment cores.

Your answer

Section 5 - Why do some measurements reflect Milankovitch cycles more than others? For example, why do oxygen isotope measurements reflect Milankovitch cycles very closely, while some pollen and charcoal records do not? Include specific examples as part of your answer.

Your answer

Section 6 - What other forcings (in addition to Milankovitch Cycles) are relevant to late Quaternary climate in Australasia?

Your answer

Section 7&8 - How might paleoclimate records discussed in this article be influenced by human activities? Why do the authors downplay the significance of human activities in their findings?

Your answer

What interested you most about this article? *



