Chapter 8

Paper:

Claire M. Belcher, Luke Mander, Guillermo Rein, Freddy X. Jervis, Matthew Haworth, Stephen P. Hesselbo, Ian J. Glasspool, and Jennifer C. McElwain. "Increased fire activity at the Triassic/Jurassic boundary in Greenland due to climate-driven floral change." *Nature Geoscience* 3, no. 6 (2010): 426-429.

Questions:

1. **Why does increased global temperature result in an increased prevalence of wildfires?**

2. **What is the main aim of the paper?**

3. **What is a Global Boundary Stratotype Section and Point (GSSP)? Where is the GSSP for the Triassic-Jurassic (T-J) boundary? Why was it important to correlate the Greenland section with the T-J GSSP?**

4. **What trend in fire activity is inferred from the proxy charcoal record?**

5. **What factors can potentially bias the fossil record of charcoal and how have these biases been minimized or eliminated in this study?**

6. **How can vegetation influence fire activity?**

7. **How did the authors investigate the potential influence of Triassic-Jurassic vegetation on palaeo fire activity?**