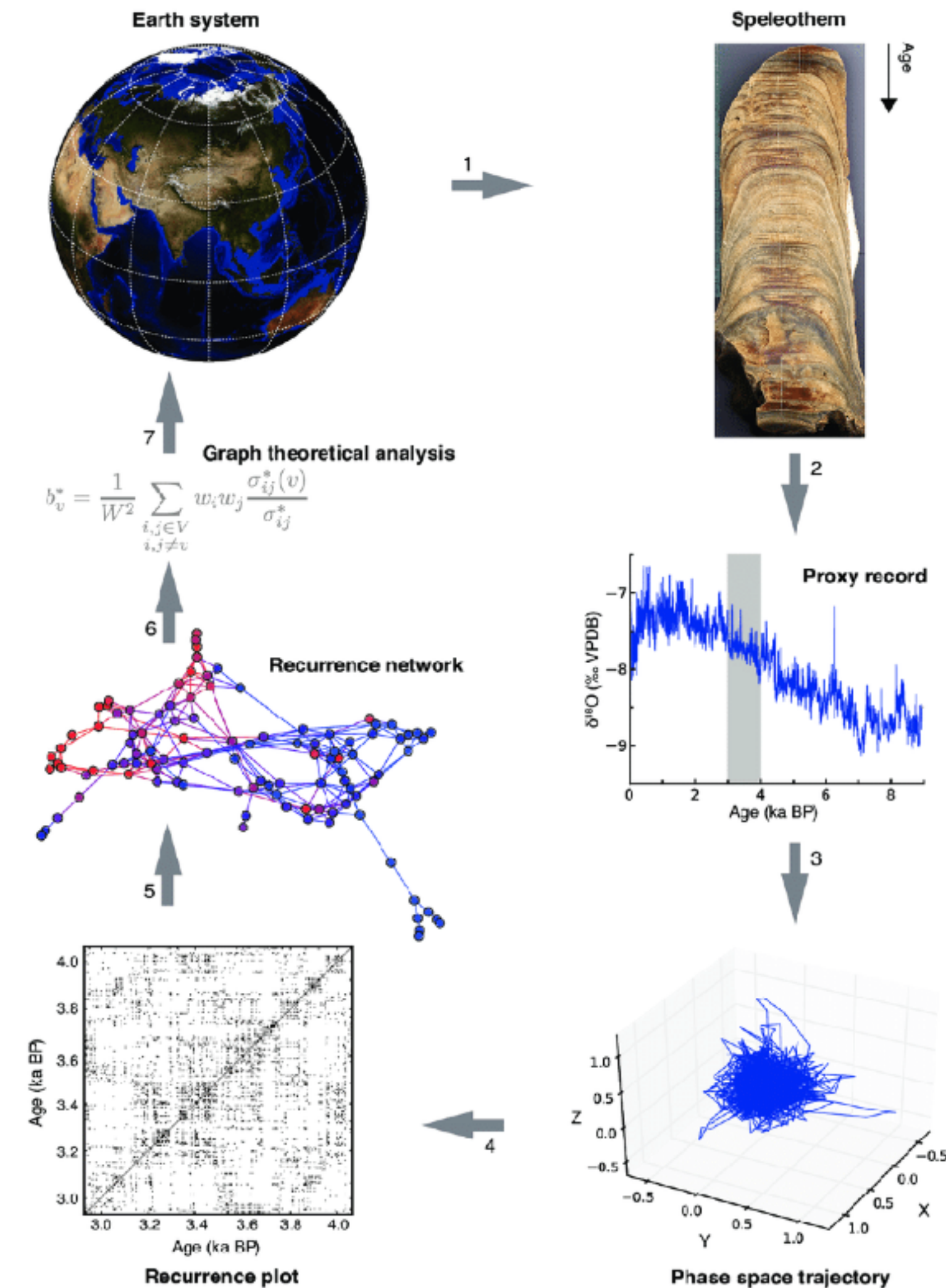


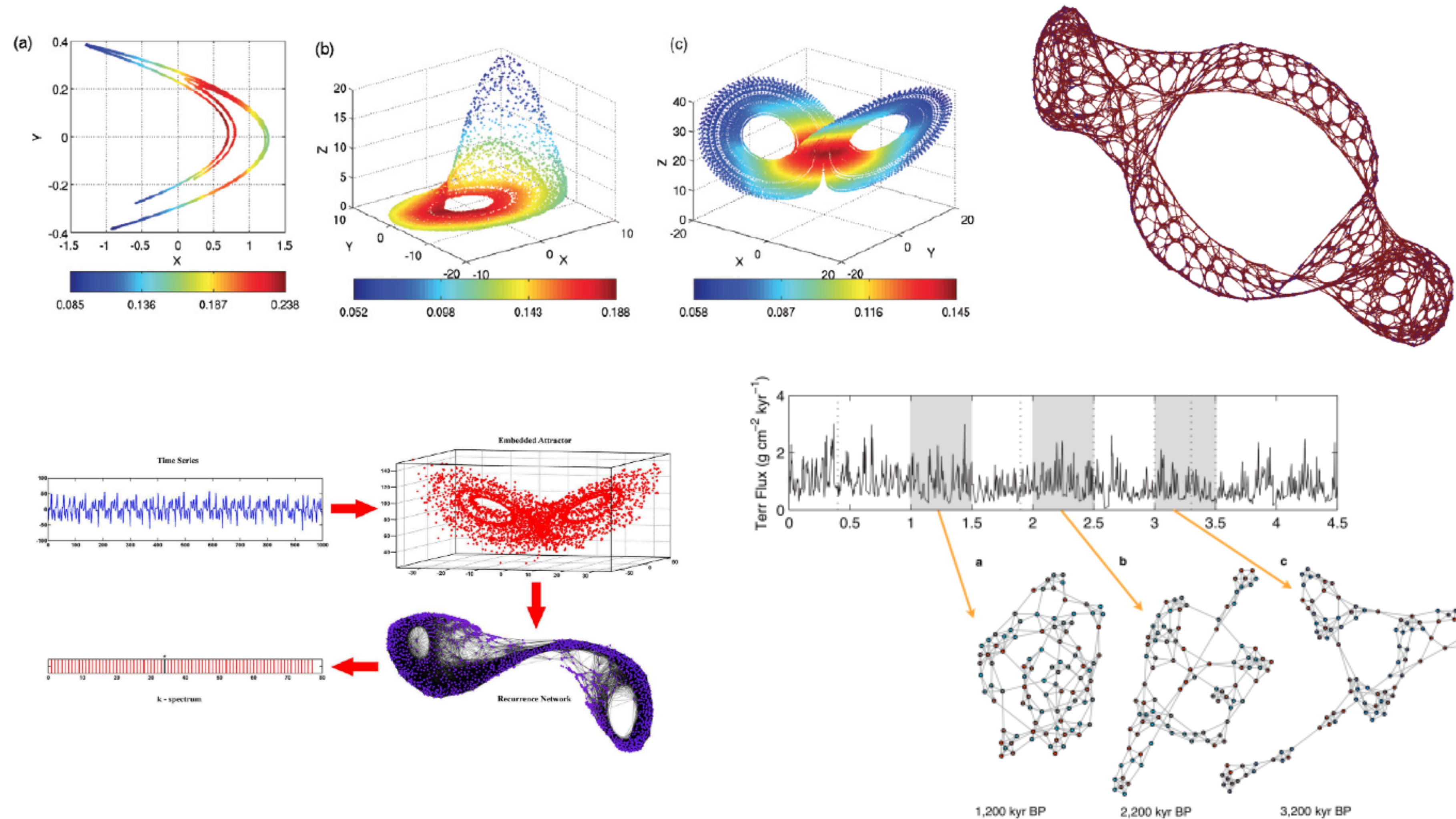
# Recurrence/Incidence/Adjacency Matrix

- Time points are nodes (vertices)
- Nodes are connected by lines (edges) if they recur at some later point in time
- Network measures can be interpreted as quantifying aspects of the temporal dynamics, some are equivalent to RQA measures... some are different (e.g. weighted and/or directed network measures)





# Recurrence/Incidence/Adjacency Matrix



Small, M., Zhang, J., & Xu, X. (2009). Transforming time series into complex networks. *Complex Sciences*, 2078–2089.

Jacob, R., Harikrishnan, K. P., Misra, R., & Ambika, G. (2015). How does noise affect the structure of a chaotic attractor: A recurrence network perspective. *arXiv preprint arXiv:1508.02724*.