

External assessment 2022

Stimulus book

Earth & Environmental Science

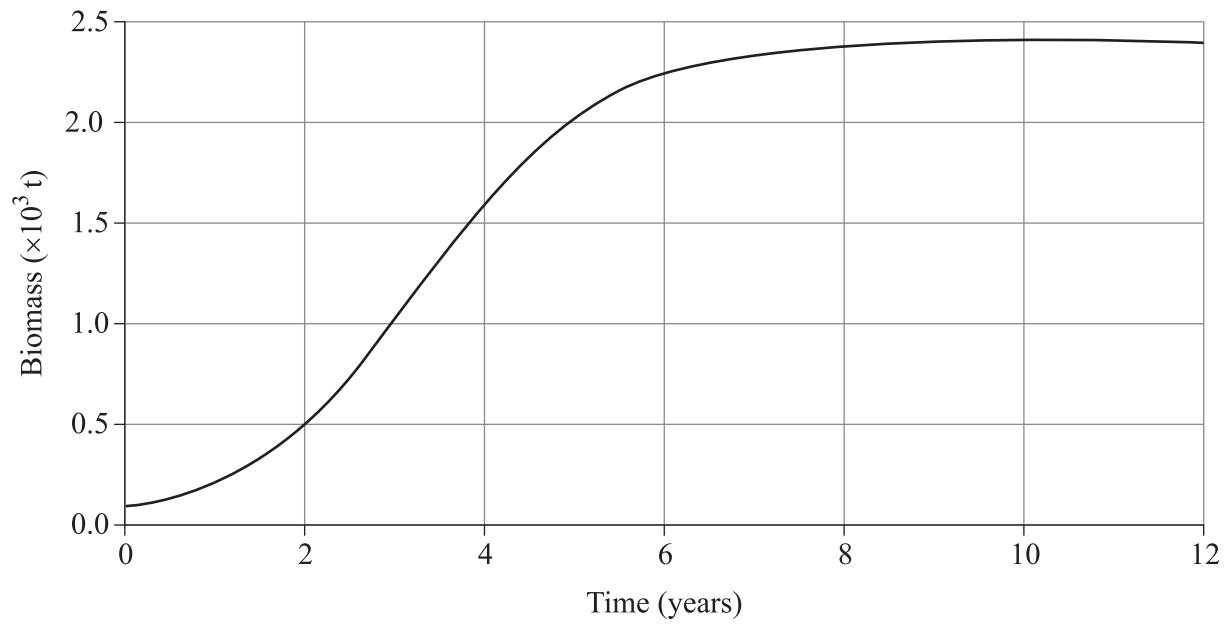
Paper 2

General instruction

- Work in this book will not be marked.

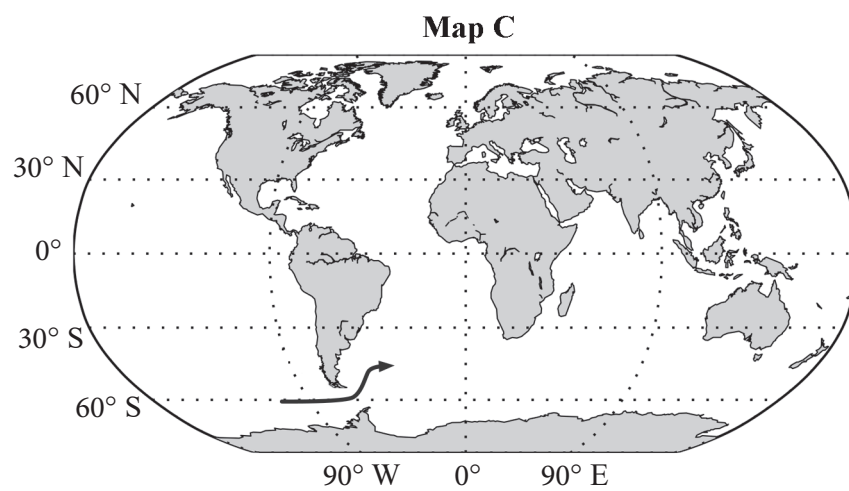
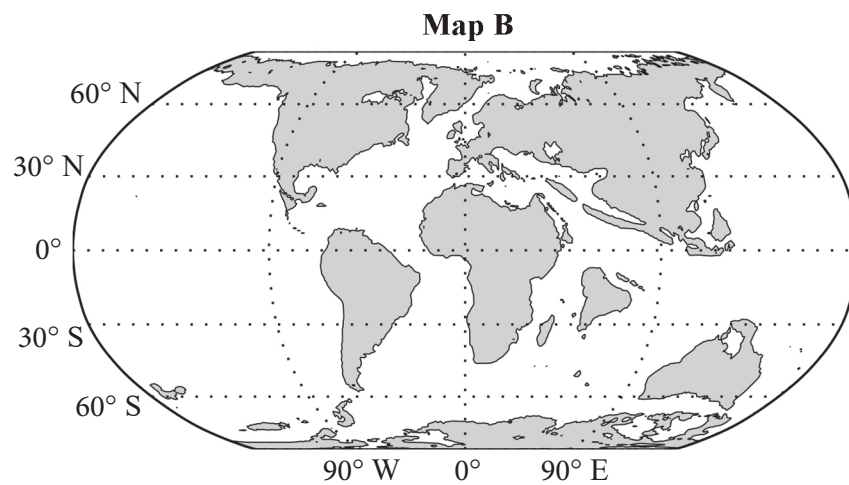
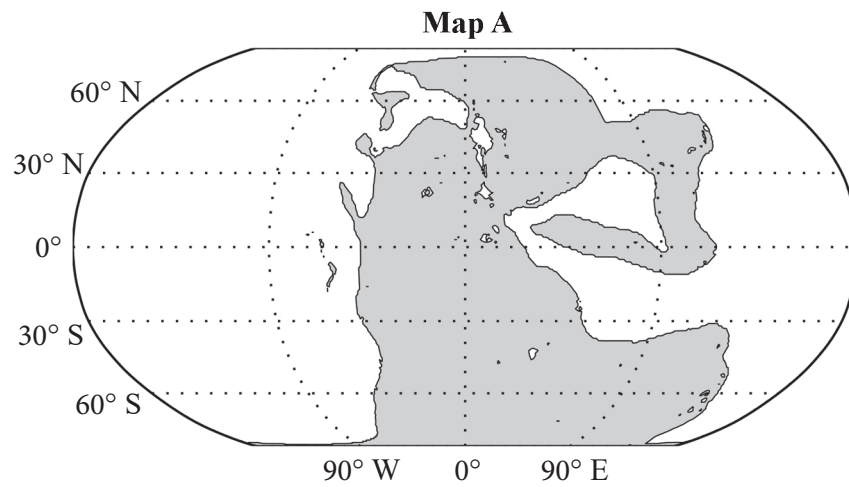
Stimulus 1

A population curve for a fishery is shown.



Stimulus 2

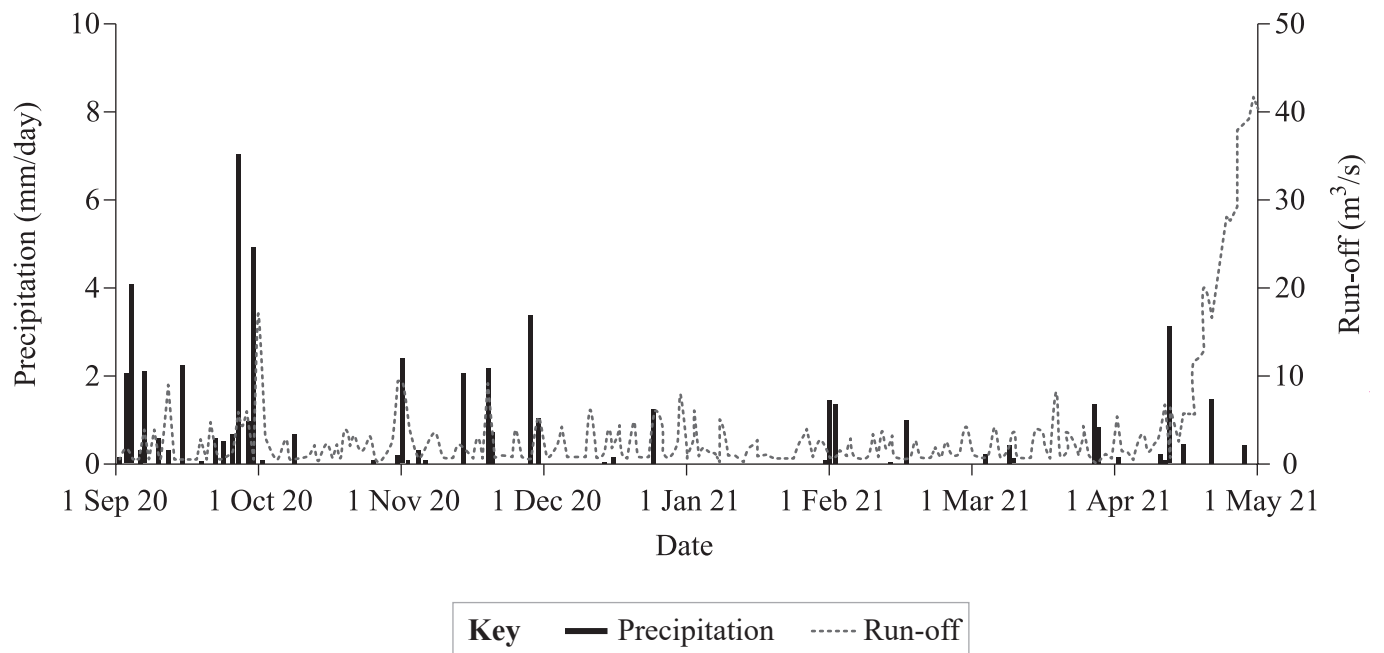
The maps show three continental configurations from Earth's geological history.



Arrow on Map C indicates the direction of the Antarctic Circumpolar Current through the Drake Passage.

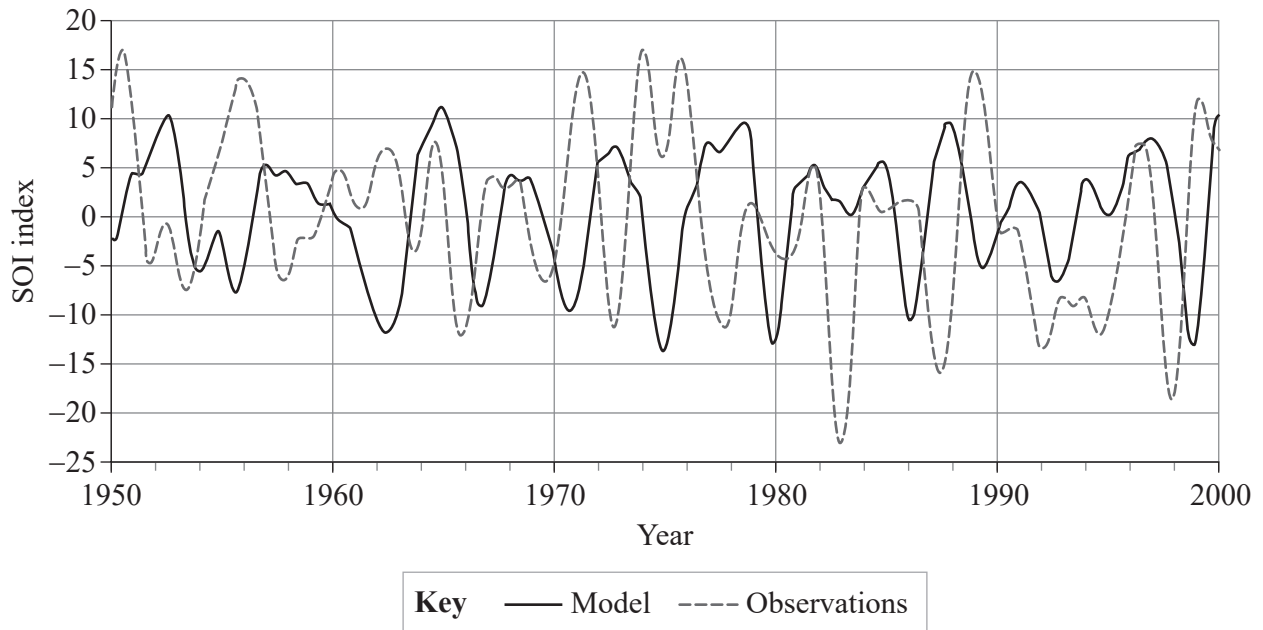
Stimulus 3

The graph shows run-off and precipitation for a local forest.



Stimulus 4

The graph shows the southern oscillation index (SOI) of a general circulation model (GCM). The average periodicity of the GCM's SOI is 4.5 years.

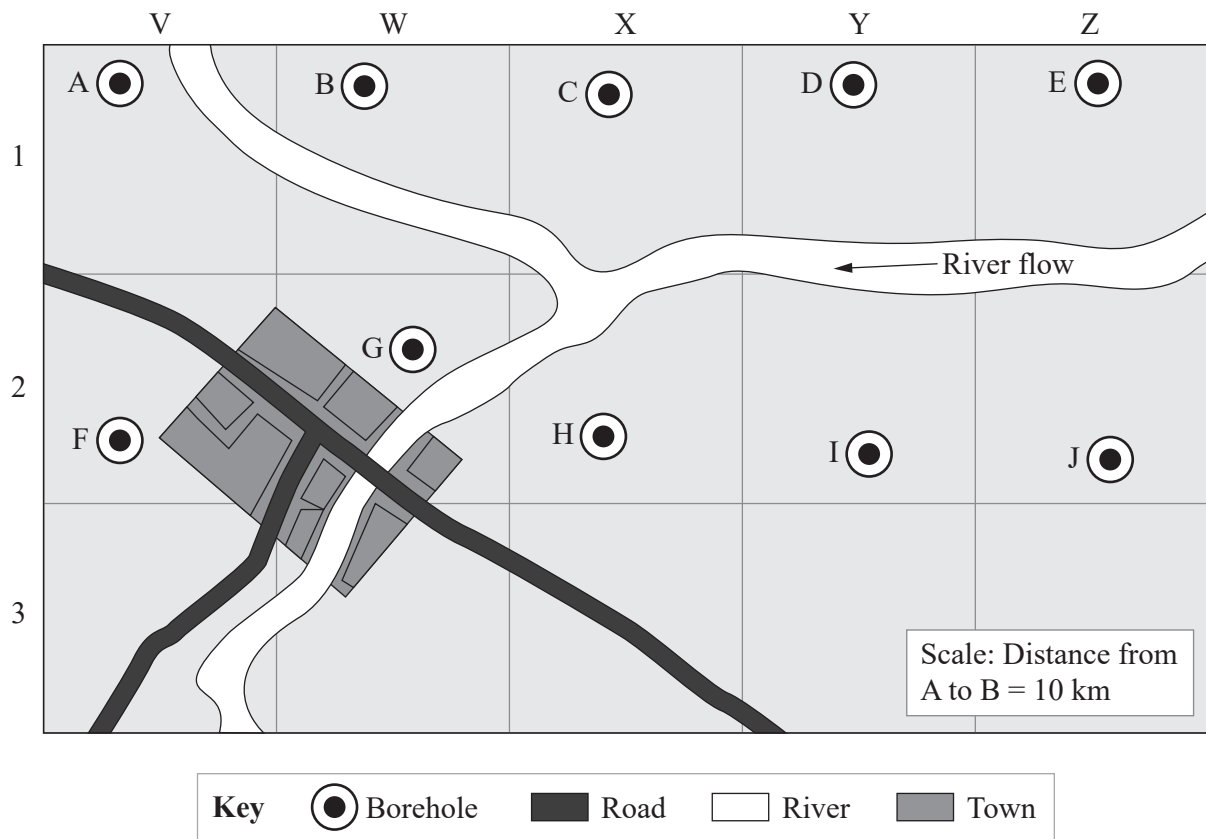


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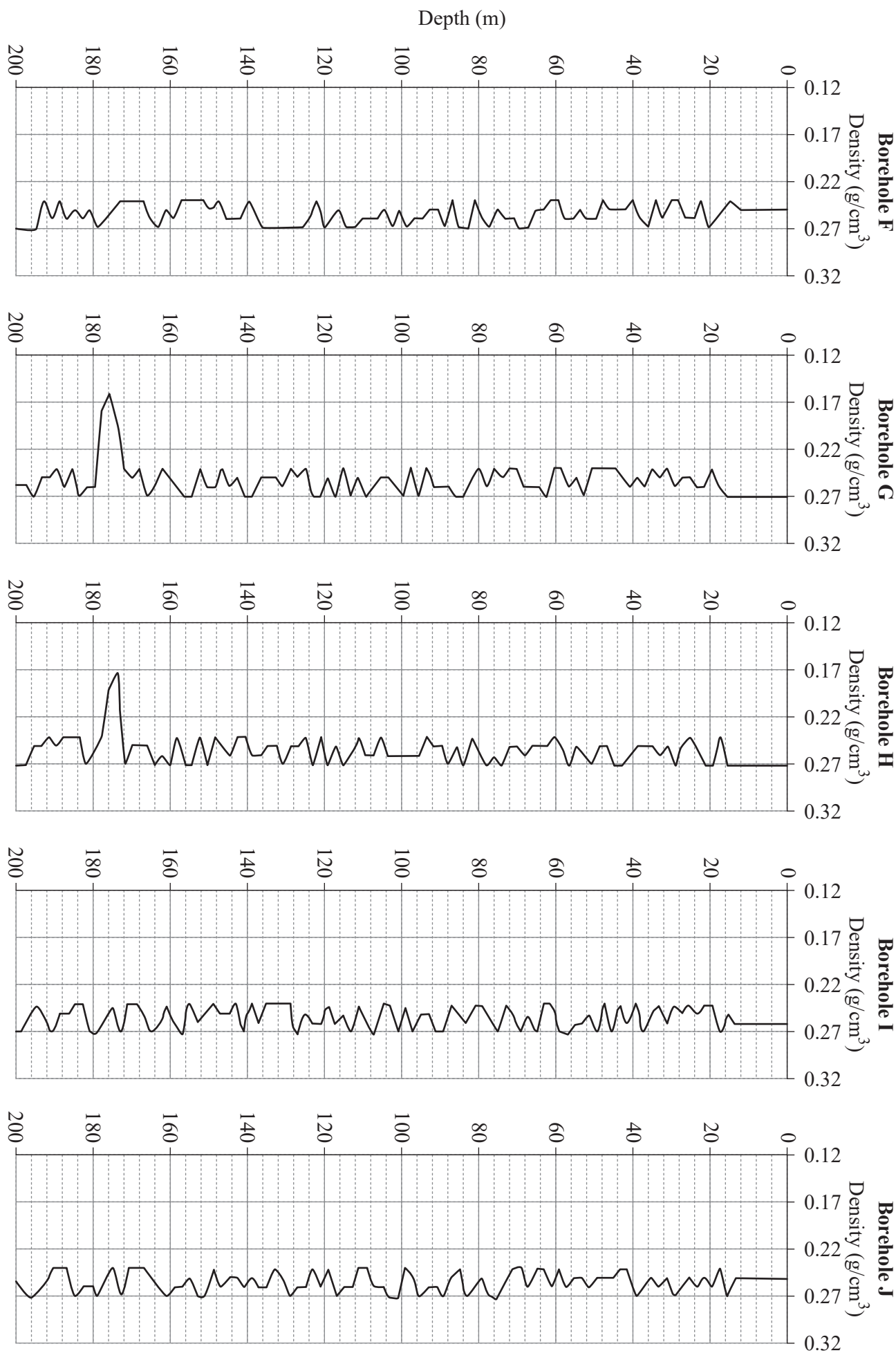
Stimulus 5

The figures show the location of boreholes (A–J) and associated borehole data from a mine survey area.

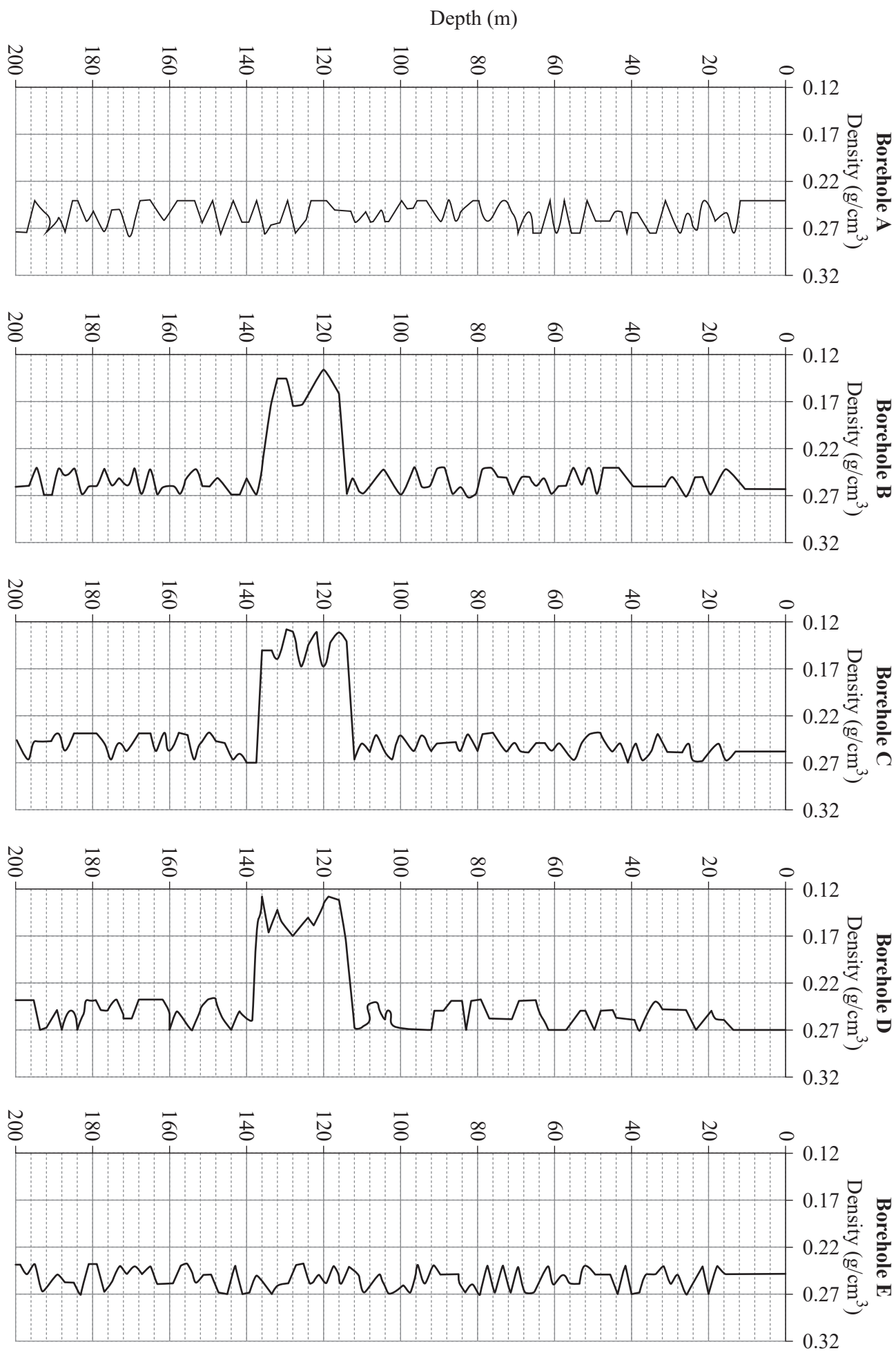


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Stimulus 5 continued



Stimulus 5 continued



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References

Stimulus 4

Adapted from Delworth et al. 2006, 'GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and simulation characteristics' *Journal of Climate*, vol. 19, no. 5, pp. 643–674.

Australian Bureau of Meteorology 2010, *Southern Oscillation Index since 1876*, www.bom.gov.au/climate/enso/soi.

Stimulus 5

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