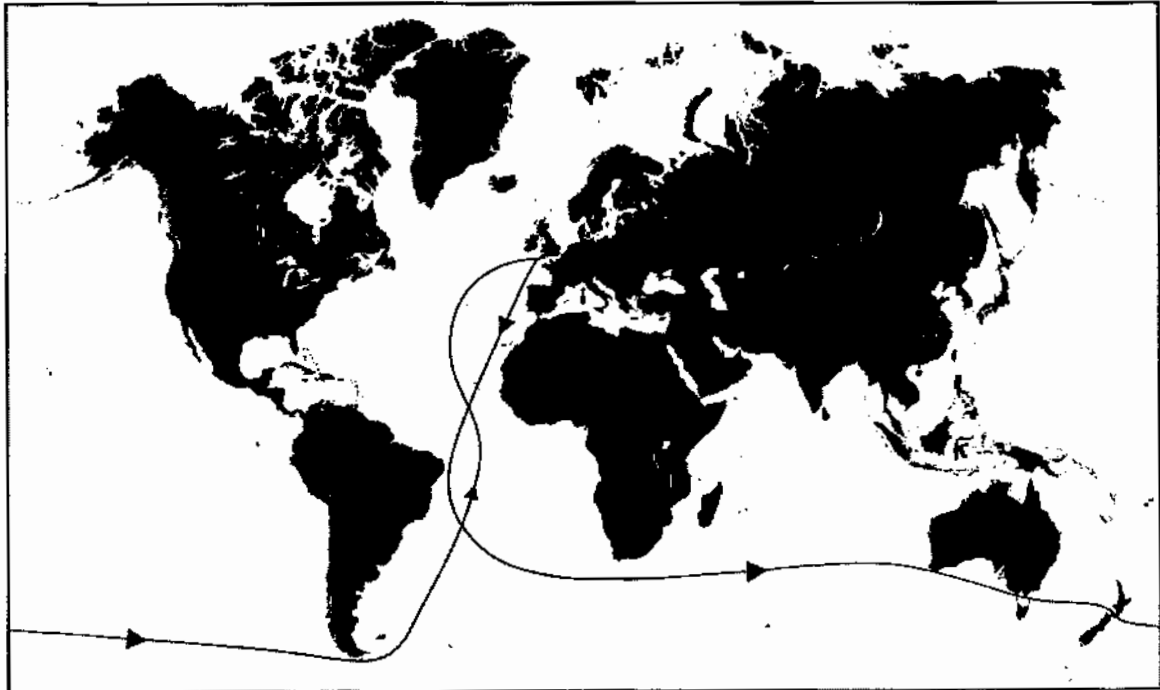


Section D: Wind Speed

1.5m

1. Study the figure below: The sailing ships route.
Describe where and explain why sailing ships experienced the highest (wind) speeds?



The sailing ships route

(original: <https://upload.wikimedia.org/wikipedia/commons/1/17/ClipperRoute.png>,
cartographic base: <http://www.vectorworldmap.com/vectormaps/vector-world-map-v2.2-blank.jpg>).

Area:

Reason:

.....

3m

2. From the figure: The sailing ships route (map above),
describe where and explain why they experienced decreased (wind) speeds?

Area 1:

Reason:

.....

Area 2:

Reason:

.....

2m

3. Study the figure below: The approximate plane flight routes.
- a) Explain why route A is usually used when flying from America to Asia.
 - b) Explain why route B is usually used when flying from Asia to America.



The approximate plane flight routes

(original: https://en.wikipedia.org/wiki/...#/media/File:..._routes.svg,
cartographic base:

https://en.wikipedia.org/wiki/Template:Location_map_Pacific_Ocean#/media/File:Pacific_Ocean_1aea_location_map.svg).

a)

.....

.....

b)

.....

.....

2.5m

4. Study Resource Booklet Figure D1: Wind speed and wind turbine power output.
- a) What is the minimum wind speed necessary for a wind turbine to produce electricity?
 - b) Specify in which wind conditions a wind turbine can produce the greatest power output.
 - c) Why is no electricity produced at very high wind speeds?

a)

b)

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c)

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