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Geography
Higher level and standard level
Paper 1 – resource booklet

Wednesday 8 May 2019 (afternoon)

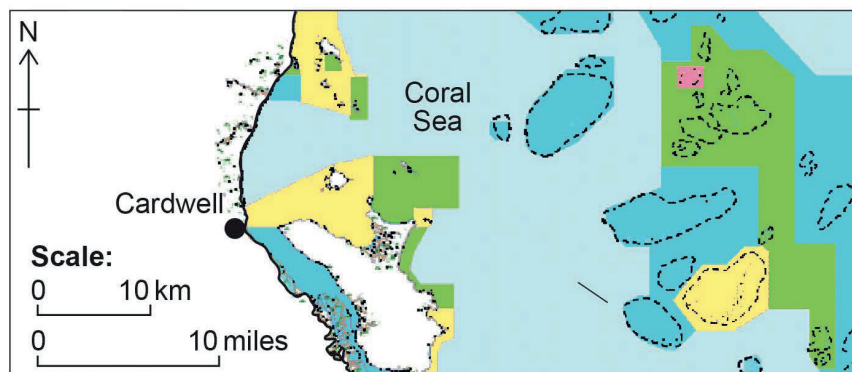
Instructions to candidates

- Do not open this booklet until instructed to do so.
- This booklet accompanies paper 1.

Option B — Oceans and coastal margins

3. The table and map show management zones created to control human activities along a nation's coastal margin that includes coral reefs.

| Activities allowed in different zones | Aquaculture | Diving | Line fishing | Research | Tourism |
|---------------------------------------|-------------|--------|--------------|----------|---------|
| General Use Zone | Permit | ✓ | ✓ | Permit | Permit |
| Habitat Protection Zone | Permit | ✓ | ✓ | Permit | Permit |
| Conservation Use Zone | Permit | ✓ | ✓ | Permit | Permit |
| Marine National Park Zone | X | ✓ | X | Permit | Permit |
| Preservation Zone | X | X | X | Permit | X |

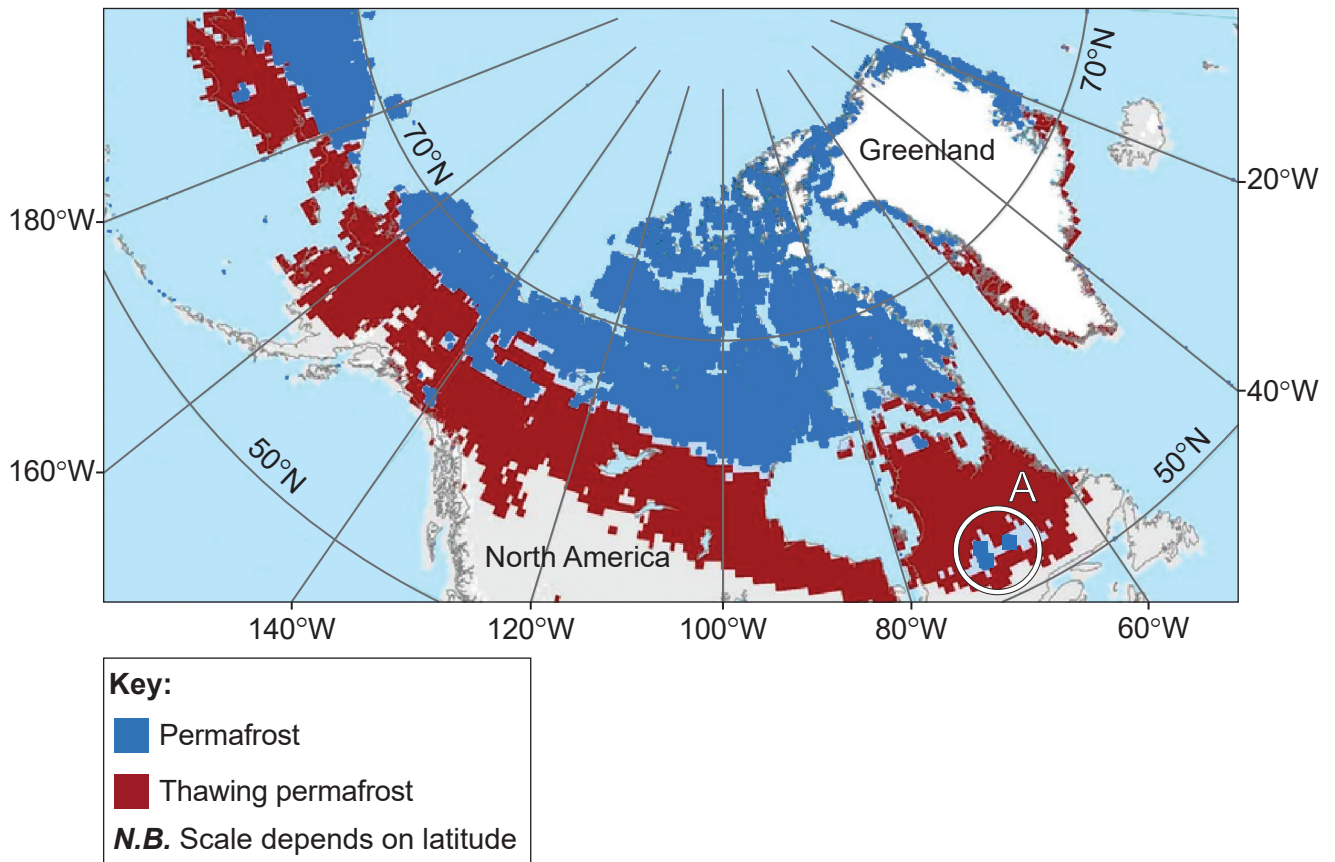


| Key: | |
|--------|--------------------------------------|
| | Shoreline |
| | Submerged coral reef |
| Permit | Allowed but permission must be given |
| ✓ | Always allowed |
| X | Never allowed |

[Source: Table: adapted from the Great Barrier Reef Marine Park Activity Matrix © Commonwealth of Australia (GBRMPA) 2005
Map: adapted from the Great Barrier Reef Marine Park Zoning Plan © Commonwealth of Australia (GBRMPA) 2005]

Option C — Extreme environments

5. The map shows predicted permafrost conditions in Greenland and North America in 2080.



[Source: Dr. Sergey Marchenko, Geophysical Institute, University of Alaska Fairbanks, USA]

Option E — Leisure, tourism and sport

9. The aerial photograph shows a growing coastal tourist destination in a middle-income country.



Scale:

0 500 m

[Source: DigitalGlobe via Getty Images]

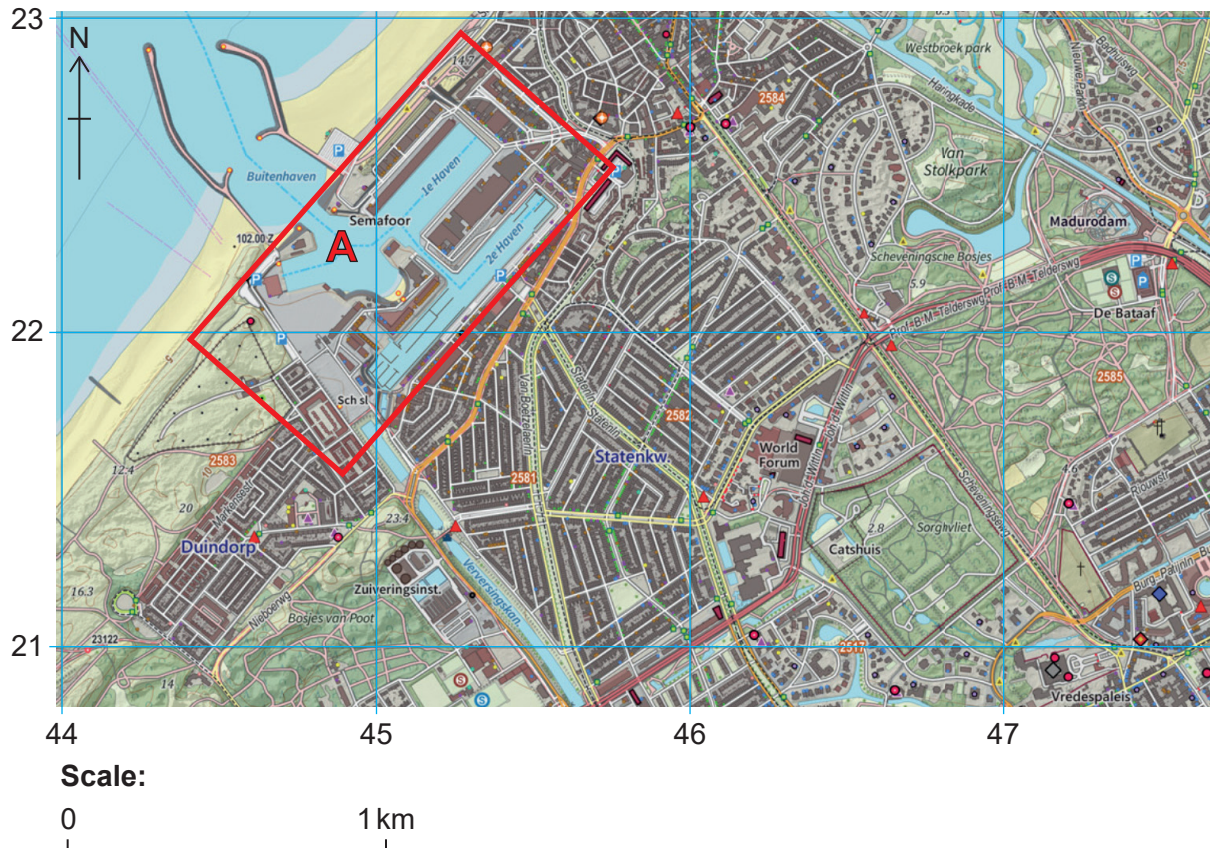
Option F — Food and health

11. The diagram shows projected changes in the total number of affluent people (those earning US\$10 a day or more) and their distribution for four world regions between 2009 and 2030.

Removed for copyright reasons














































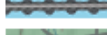











Option G — Urban environments

13. The map shows part of Den Haag (a post-industrial city in Europe).



[Source: adapted from Janwillemvanaalst/Wikimedia file licensed under CC BY-SA 3.0
(<https://creativecommons.org/licenses/by-sa/3.0/deed.en>)]

Key:

| | | | | |
|-------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|  | Buildings |  |  | Tower, church tower |
|  | Low rise, high rise |  |  | Water tower, lighthouse |
|  | Year of construction, old to new |  |  | Radar tower, radio tower |
|  | Greenhouse, oil tank |  |  | Air traffic control, viewpoint |
|  | Retail, office, education |  | | Miscellaneous symbols |
|  | Industry, lodging, sports |  | | Flare pipe, high chimney |
| | |  |  | Church, mosque, synagogue |
| | |  |  | Other religion, pumping station |
| | |  |  | Gas station, swimming pool |
| | |  |  | Wind turbine, landmark |
| | |  |  | Windmill, windpump |
| | |  |  | Telecom mast; C2000 mast |
| | |  |  | Monument, cemetery |
| | |  |  | Camping, chapel, cross |
| | |  |  | Sports, golf, skating, tennis |
| | |  |  | Telescope, telecom masts |
| | |  |  | Cycling waymark, bus stop |
| | | | | Labels |
| | |  | | ZIP code area |
| | | | | Amenities |
| | |  |  | Provincial hall, town hall |
| | |  |  | Fire station, ambulance |
| | |  |  | Police, milit. police, call centre |
| | |  |  | Civil service, palace |
| | |  | | Military |
| | |  |  | Hospital, mental institution |
| | |  |  | Courthouse, prison |
| | |  |  | Juvenile prison, public health |
| | |  |  | Water rescue, water rescue |
| | | | | Hazardous locations |
| | |  | | BRZO (high-impact risk) |
| | |  | | Gas; LPG |
| | | | | Roads |
|  | Trunk | | | |
|  | Primary road | | | |
|  | Secondary road | | | |
|  | Tertiary road | | | |
|  | Street, paved road | | | |
|  | Cycleway, footway/pedestrian | | | |
|  | Bus lane or bus area | | | |
|  | Parking | | | |
|  | Tunnel | | | |
|  | Bridge on piers | | | |
|  | Forest track | | | |
| | | | | Railways |
|  | Railway with station | | | |
|  | Tramway with station | | | |
| | | | | Hydrography |
|  | Water course, over 6 m wide | | | |
|  | Dam, culvert (siphon) | | | |
|  | Ferry, nautical nav. route | | | |
|  | Light beacon, mooring | | | |
|  | Quays, dock | | | |
|  | Kilometre mark along water | | | |
|  | Jetty, breakwater | | | |
| | | | | Terrain |
|  | Arable land | | | |
|  | Built-up area: residential | | | |
|  | Built-up area: industrial | | | |
|  | Tree nursery, garden centre | | | |
|  | Deciduous forest | | | |
|  | Coniferous forest | | | |
|  | Mixed forest | | | |
|  | Osier, willow | | | |
|  | Meadow, grasslands | | | |
|  | Sand, dune | | | |