



Diploma Programme
Programme du diplôme
Programa del Diploma

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International Baccalaureate®
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Geography
Higher level and standard level
Paper 1 – resource booklet

Friday 6 November 2020 (afternoon)

Instructions to candidates

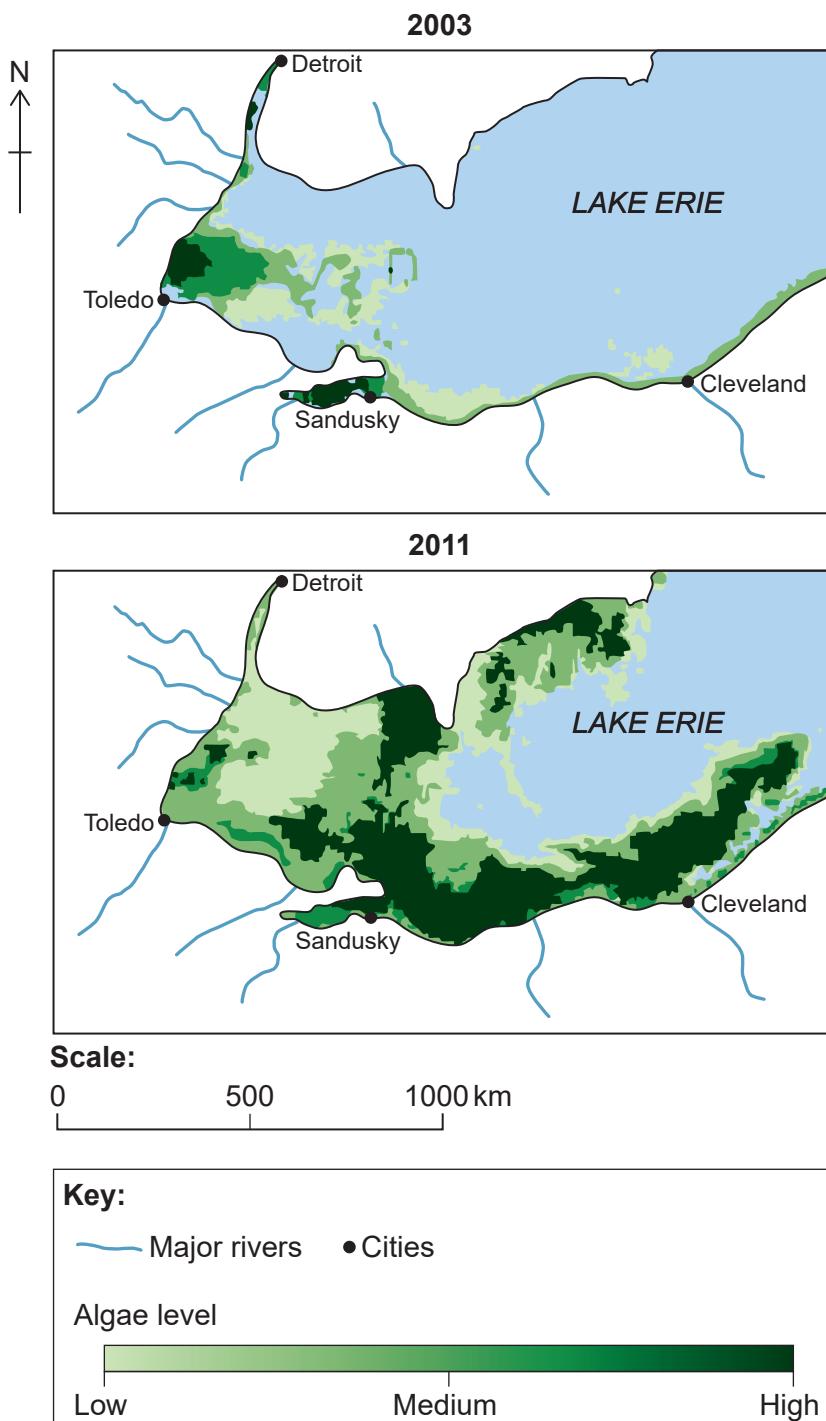
- Do not open this booklet until instructed to do so.
- This booklet accompanies paper 1.

7 pages

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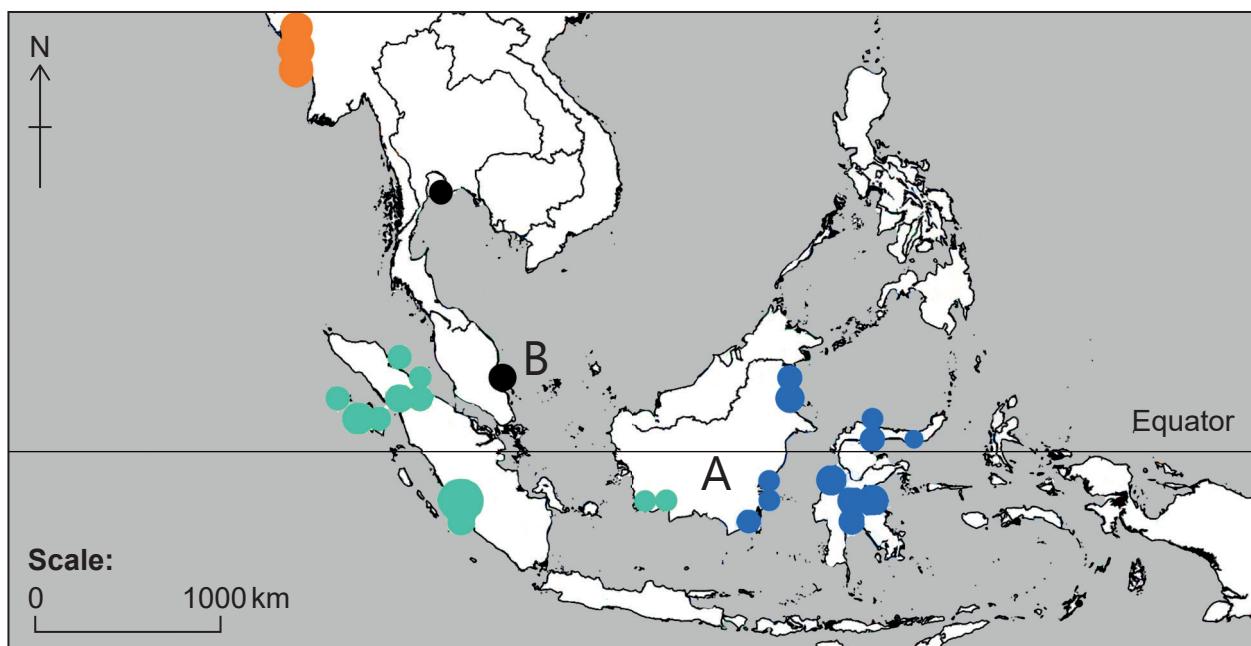
Option A — Freshwater

- The maps show the growth of algae in a freshwater lake where eutrophication is occurring. Algae growth is caused by high levels of nutrients.



Option B — Oceans and coastal margins

3. The map shows land use changes that led to the loss of mangrove swamps in selected Southeast Asian countries in 2012.



Key:

Land use

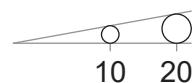
● Aquaculture

● Rice

● Oil palm

● Urban development

Mangrove swamp loss (%)



Option D — Geophysical hazards

7. The map shows Snæfellsjökull in Iceland. The scale of the map is 1:100 000 and the contour interval is 20 metres.





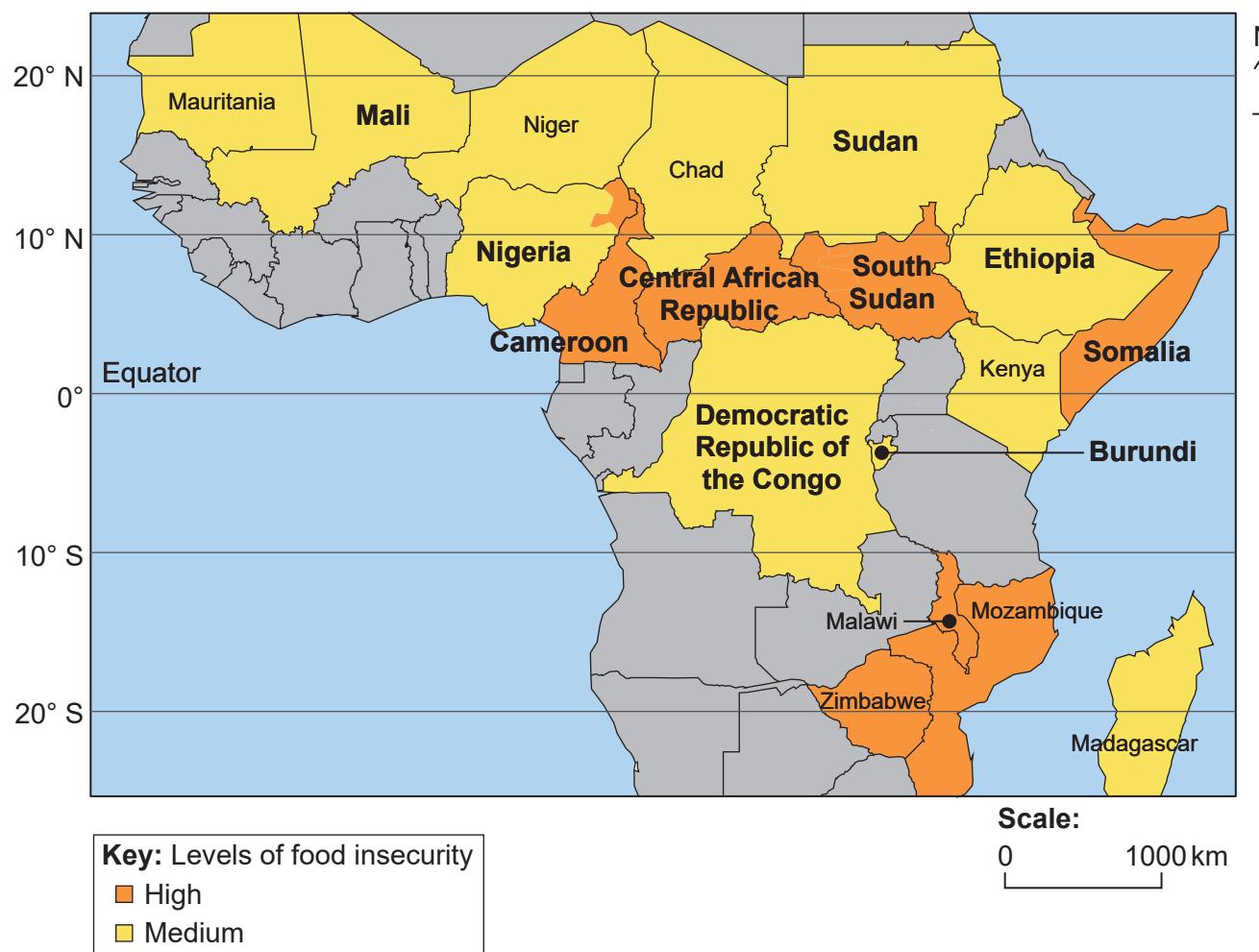
Key:

- ⓘ Information
- ⛰ Camp site
- ✈ Airfield
- ⚡ Bridle path
- ⚡ Foot path, marked
- ⚡ Foot path, unmarked
- ⚡ Town or village
- ⚡ Main road
- ⚡ Secondary road
- ⚡ Track
- ⚡ Nature reserve
- ⚡ Natural monument
- ⚡ National park
- ⚡ Glacier (*jökull*)
- ⚡ Block lava
- ⚡ Crater

Turn over

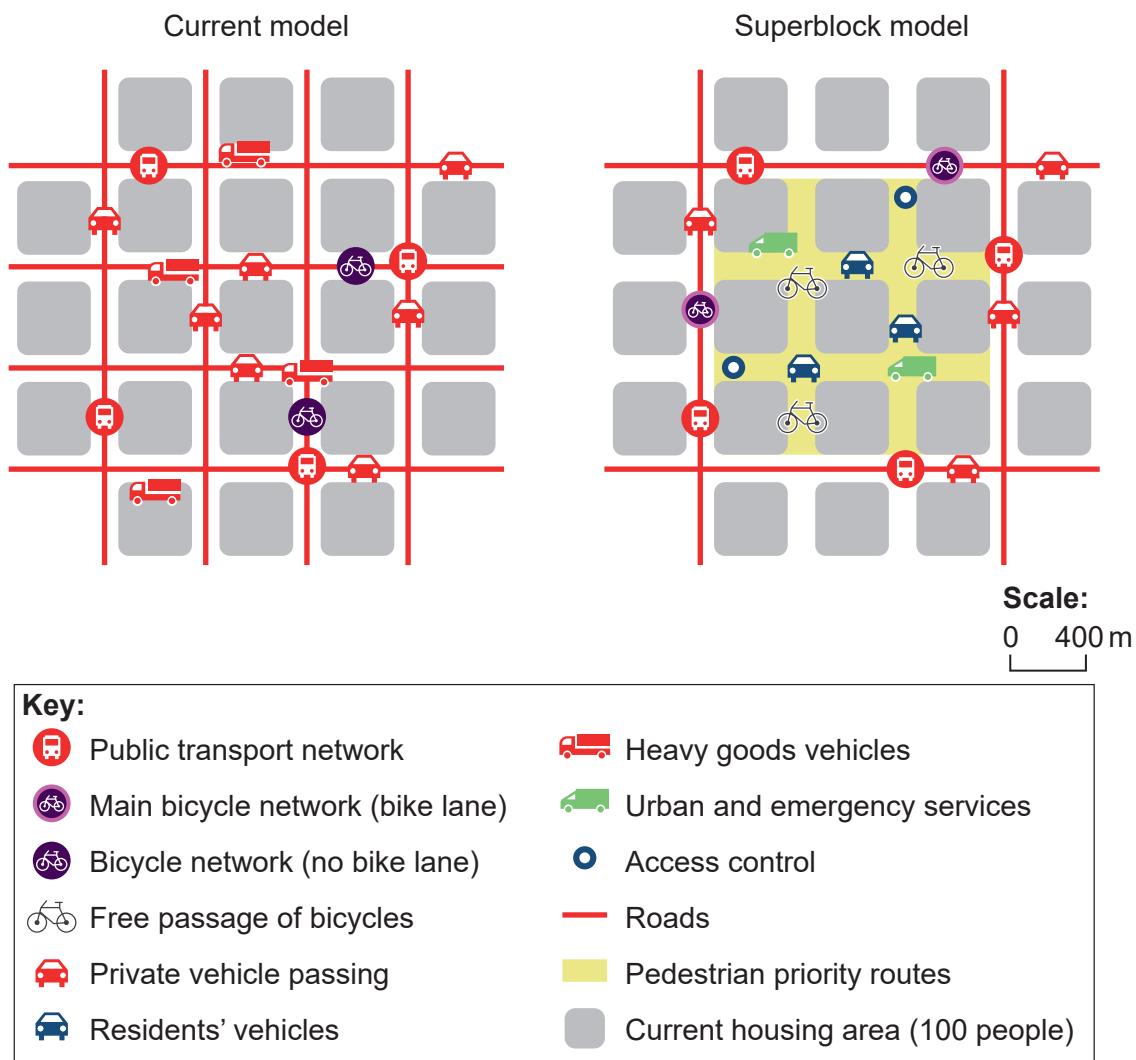
Option F — Food and health

11. The map shows selected African countries suffering from severe food insecurity in 2017.



Option G — Urban environments

13. The diagram shows a planned model of a superblock, part of an initiative to create sustainable smart cities.



References:

Option A NOAA.

Option B Drivers of mangrove loss in Southeast Asia, Daniel R. Richards, Daniel A. Friess, *Proceedings of the National Academy of Sciences* Jan 2016, 113 (2) 344–349; DOI: 10.1073/pnas.1510272113.

Option D Based on data from National Land Survey of Iceland.

Option F Courtesy Africa Center for Strategic Studies.

Option G Superblock Model diagram, Barcelona Urban Ecology Agency.