

# A-level GEOGRAPHY

Paper 1 Physical geography

## Insert

#### This insert contains:

- Figures 1a and 1b for use with Question 1
- Figure 2 for use with Question 1
- Figures 3a and 3b for use with Question 2
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Figure 1a

Change in lake and river surface water temperature by global distribution between 1970 and 2010

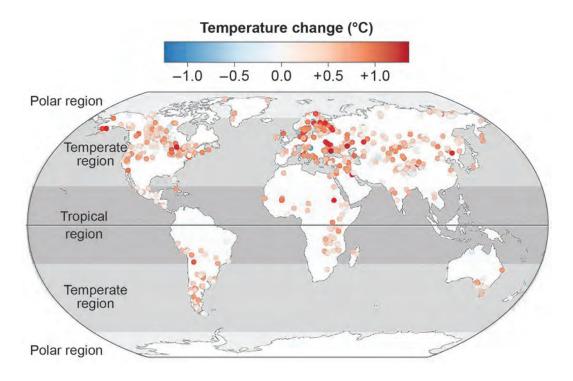


Figure 1b

Change in lake and surface water temperature by latitude between 1970 and 2010

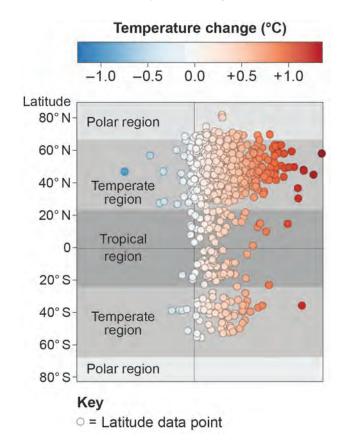


Figure 2

River flow data measured at various gauging stations across parts of the UK on 7 November 2019

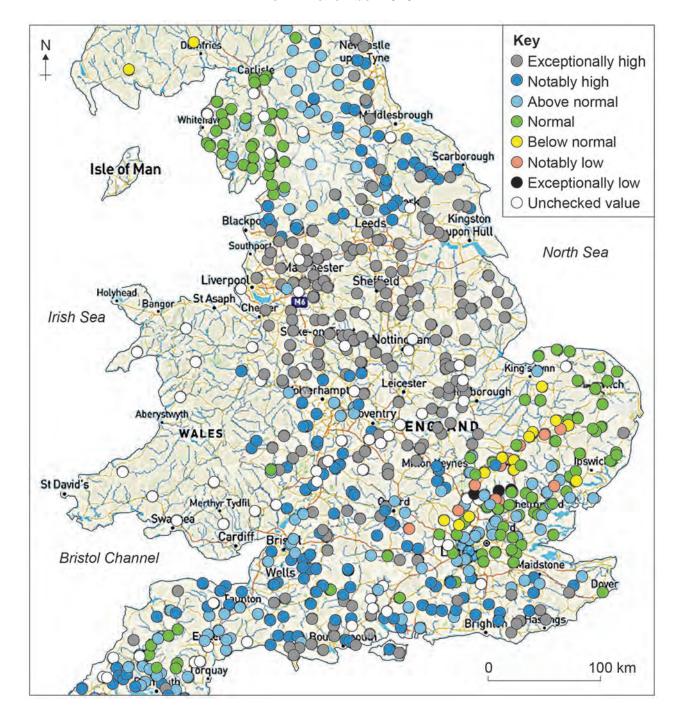


Figure 3a

Average rainfall and current extent of the Sahara Desert and other vegetation types in central and north Africa

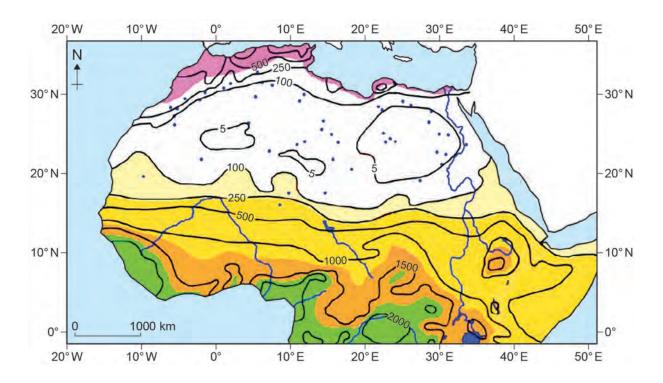
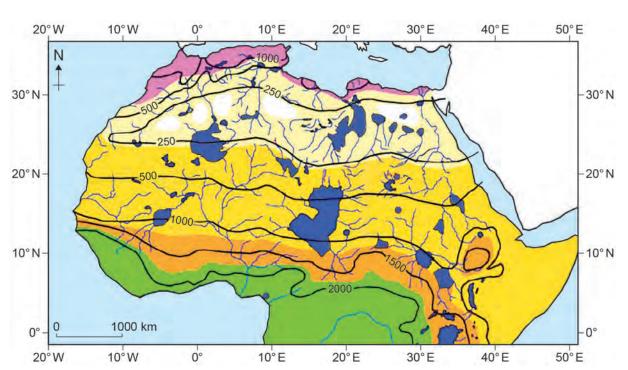


Figure 3b

Average rainfall and vegetation types in central and north Africa around 6000–10 000 years ago



### Key for Figure 3a and Figure 3b

Key	
Mediterranean and sub-Mediterranean	River
Desert	Lake/oasis  —500 — Isohyet (mm/year)
Grassland (<10% woody cover)	
Wooded grassland (11-40% woody cover)	
Woodland (41-80% woody cover)	Isohyet: a line joining places
Forest (>80% woody cover)	with the same annual rainfall

Figure 4

Some of the factors causing desertification in selected locations

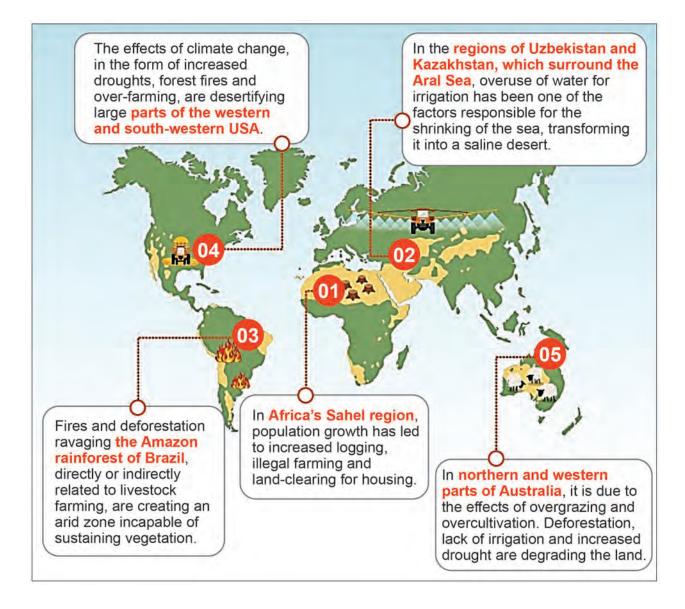


Figure 5a - Coastal zones of Vietnam



Figure 5b - coastal vulnerability due to erosion in Vietnam as a whole and by coastal zone

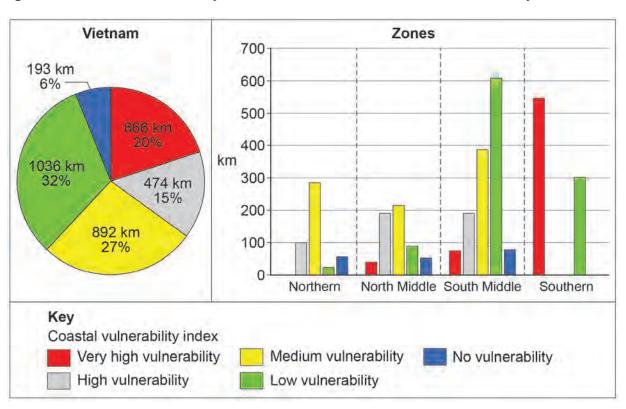


Figure 6
Some challenges facing West Africa's coastal resources



Figure 7a

Cumulative length change in selected Scandinavian glaciers, 1896–2016

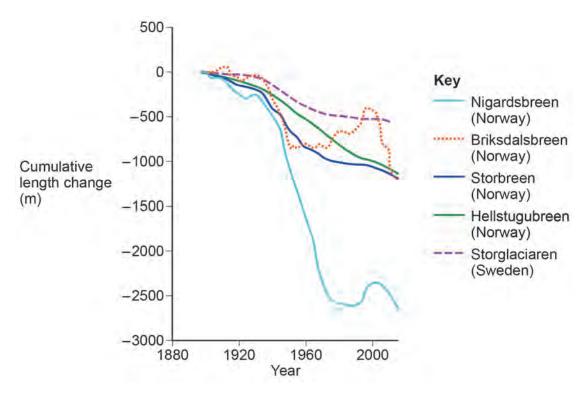


Figure 7b

Cumulative mass balance change in selected Scandinavian glaciers, 1960–2014

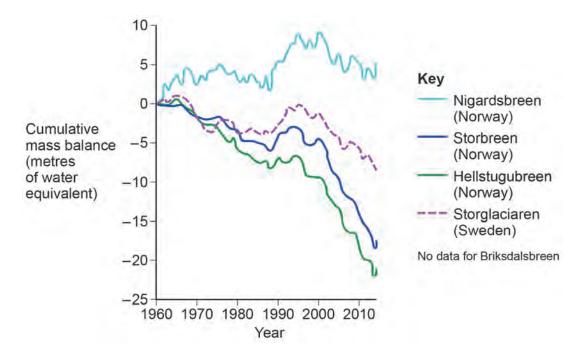


Figure 8

Future challenges and opportunities in the Alps as the climate changes

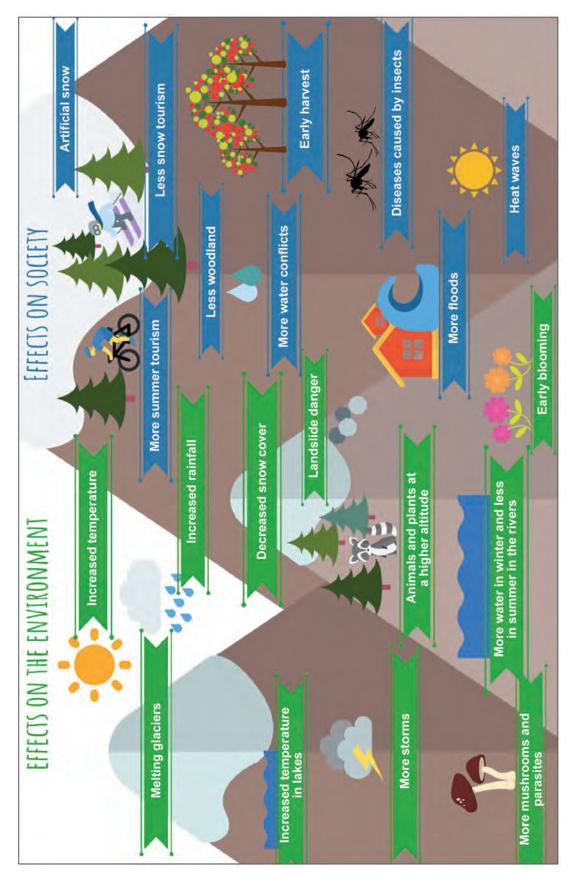


Figure 9

Data related to the changing frequency of tropical storms between 1980 and 2018

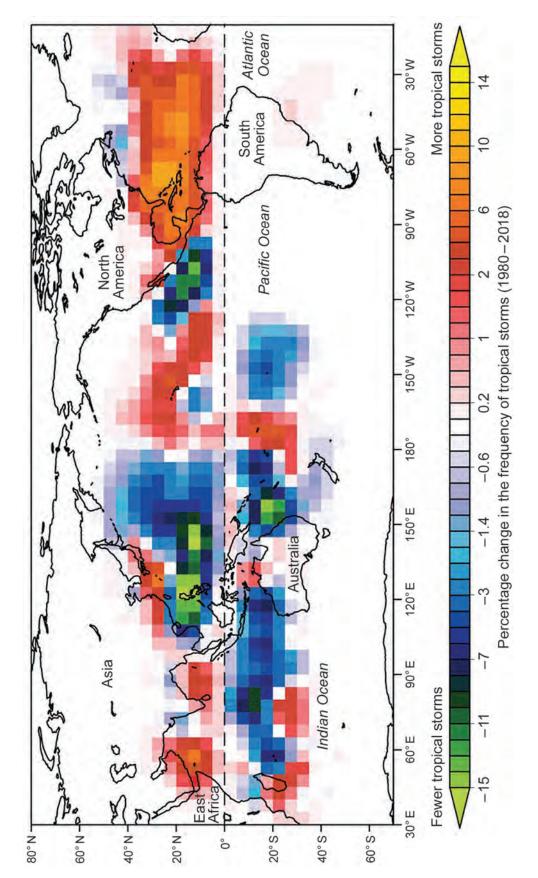


Figure 10 - data related to the Hunga Tonga-Hunga Ha'apai submarine volcanic eruption and tsunami on 14 January 2022

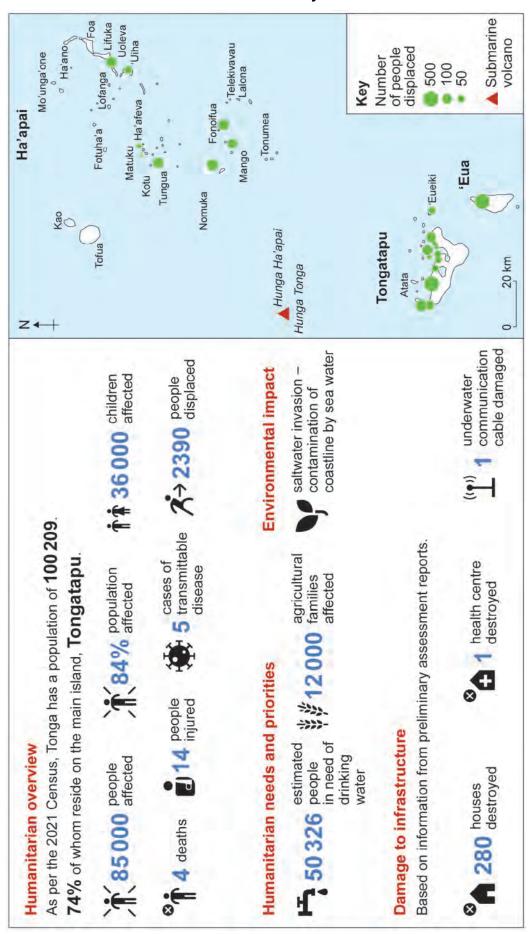
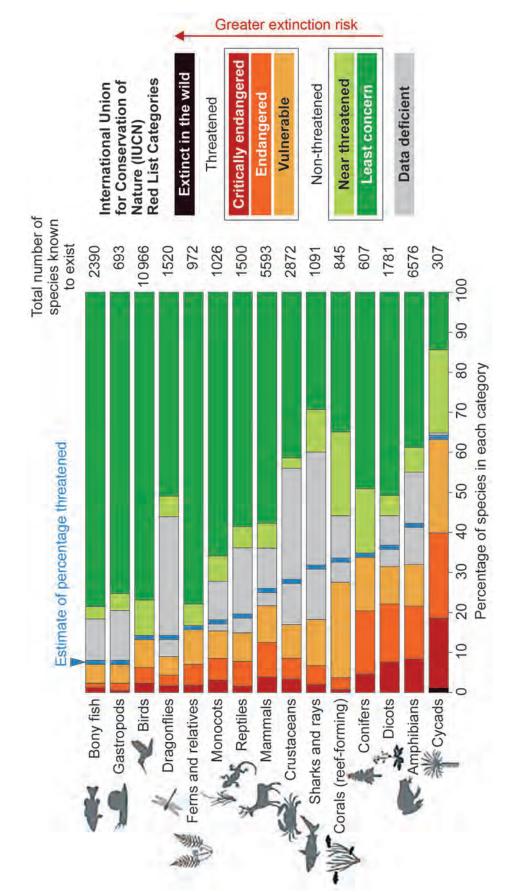


Figure 11
Information about global biodiversity by species category measured in 2019



Ulva sp. Carnivorous macrobenthos Herbivorous macrobenthos macroalgae Other Clam harvesting Manila clam Seagrass Manila clam Seabream Epiphytes feeder Pilchards Seabream Filter Phytoplankton Fish-eating birds Zooplankton Bacterioplankton Seabass Species affected by clam harvesting Species unintentionally affected by Species affected by fisheries Sand smelt Detritivorous macrobenthos Gobies Organic matter in bottom sediment Links in food web clam harvesting Fisheries predators Benthic macrobenthos -Omnivorous Meiobenthoa Seabass Key Mullet 4 3 2 Trophic level

Figure 12
Food web diagram of a coastal lagoon in Italy

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