

93401R



# Scholarship 2019 Geography

2.00 p.m. Friday 22 November 2019

# RESOURCE BOOKLET

Refer to this booklet to answer the questions for Scholarship Geography.

Check that this booklet has pages 2–21 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

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# THE SIGNIFICANCE OF GEOGRAPHIC LOCATION IN A GLOBAL CONTEXT

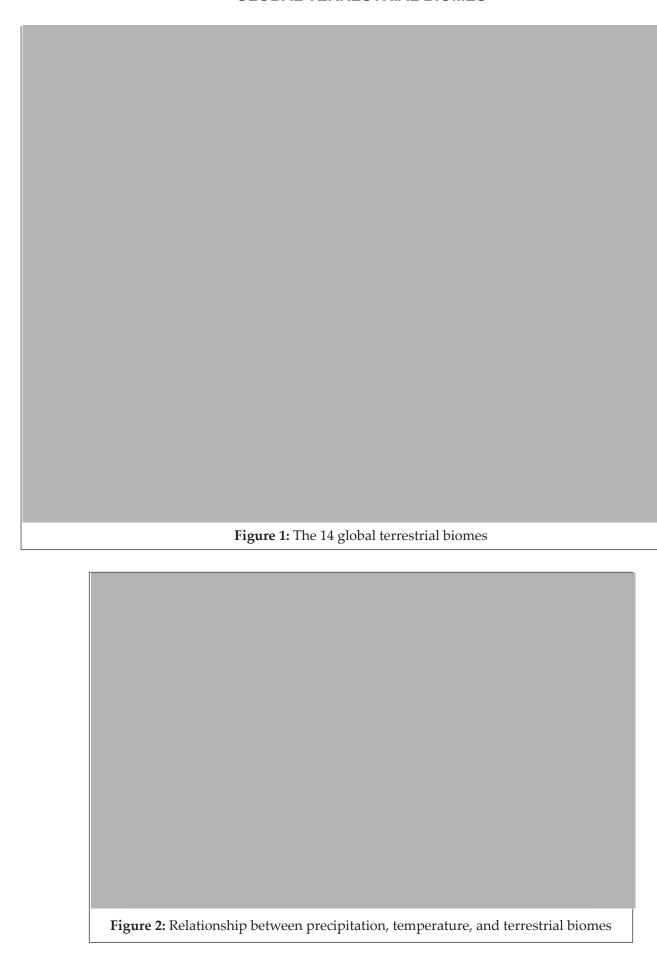
### INTRODUCTION: THE PREMISE OF GEOGRAPHY

Nothing can be adequately understood if separated from the place where it occurs. That is, no event, situation, or problem in human society has much meaning until it is examined against the characteristics of that part of the Earth that constitutes the background for it. For instance, if the first civilisations had arisen in Scandinavia instead of Mesopotamia, or if the Industrial Revolution had first occurred in Spain rather than in Britain, the meaning of these examples of behaviour in human society would have been vastly different, even if the events themselves remained the same. This connection between human affairs and the geographic location where they occur is the essence of Geography.

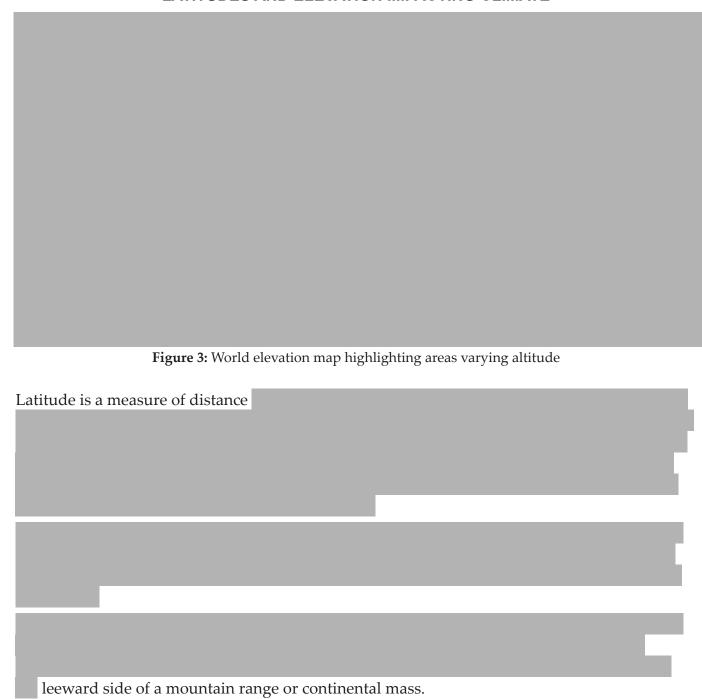
Geographic location controls the formation of natural environments. These natural environments affect large groups of people very directly and in a primary manner. Every community, tribe, state, and nation on Earth is affected by the natural environment directly, vigorously, and persistently. No major activity of human society is independent of its helps, hindrances, or directives. The National Geographic Society states the "natural environment does to human society what the social environment does to the human individual".

# **SECTION A: NATURAL GEOGRAPHY**

### **GLOBAL TERRESTRIAL BIOMES**



### LATITUDES AND ELEVATION IMPACTING CLIMATE



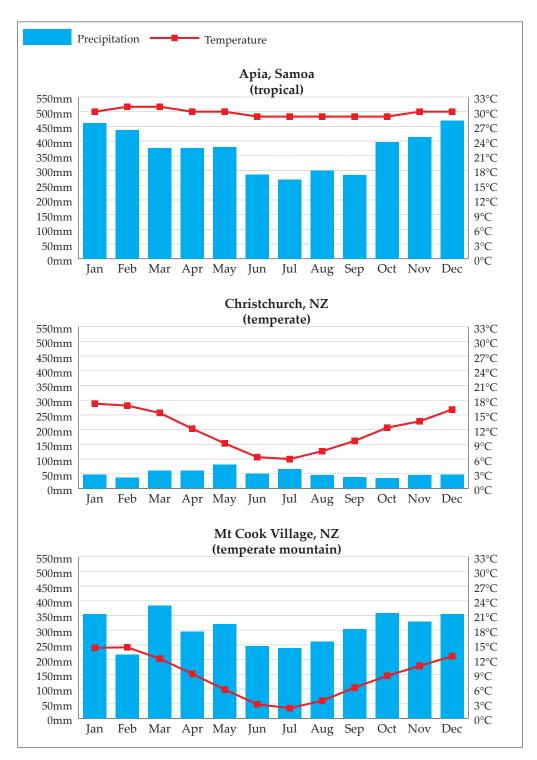
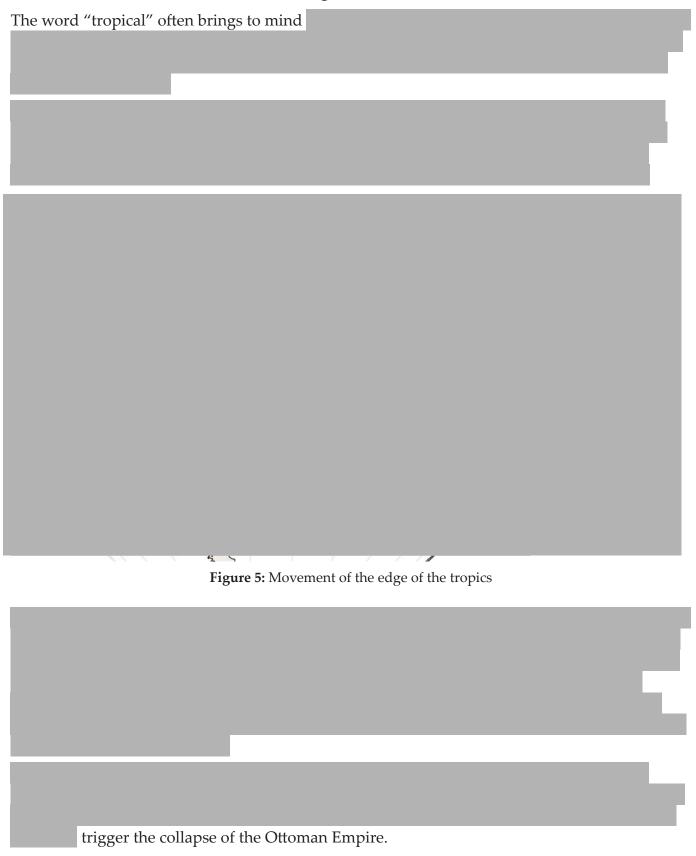


Figure 4: Three contrasting climate graphs of a tropical, temperate, and temperate mountain location

# **CONSTANT FLUCTUATIONS IN CLIMATE**

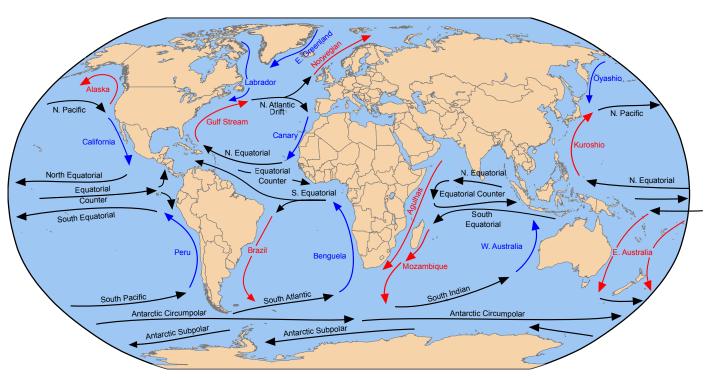
# Shifting climate zones



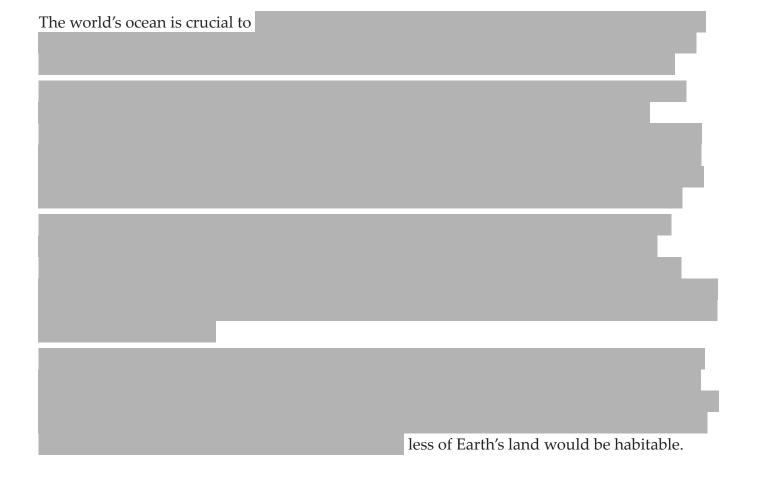


fluvial and coastal effects.

### Ocean currents



**Figure 10:** Illustration of major ocean currents throughout the globe. Ocean currents act as conveyer belts of warm and cold water, sending heat toward the polar regions and helping tropical areas cool off.



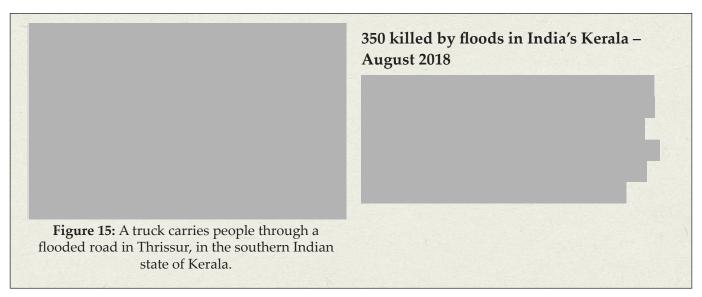
# **NATURAL HAZARDS Figure 11:** The location of plates shapes the Earth and leads to natural hazards Figure 12: Highlighting atmospheric natural hazards

**Figure 13:** Map estimating the levels of exposure of the different countries to natural hazards



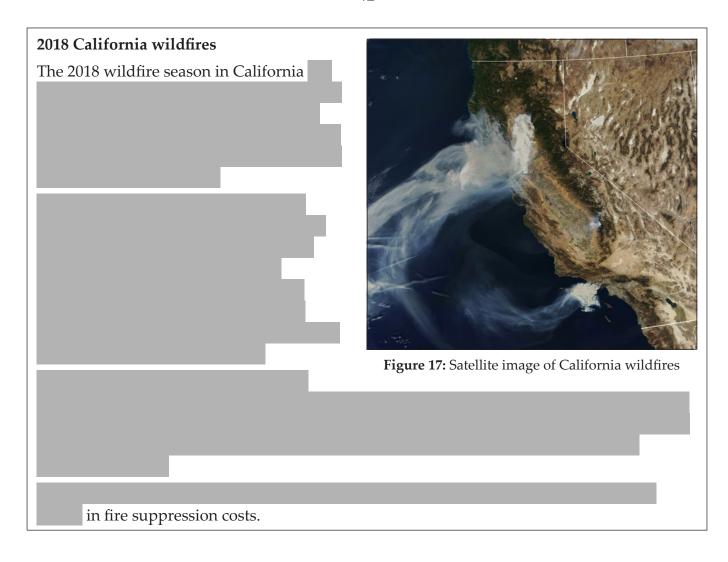
Some geographic locations are more prone to natural disaster. In March 2018, an Indonesian volcano in the Sulawesi region erupted shortly after the island was shaken by a fatal earthquake and tsunami.

Figure 14: Indonesian disasters





**Figure 16:** The world map shows the areas affected by large flood events occurring between 2001 and June 2016. Areas with multiple overlapping events are in darker blue.



### 2018 Storms

Hurricane Michael ploughed into the Gulf of Mexico on 10 October 2018, as a major Category 4 storm – the strongest hurricane ever to hit that region.

Simultaneously, the world's largest 2018 storm, Typhoon Mangkhut, slammed into the Philippines.

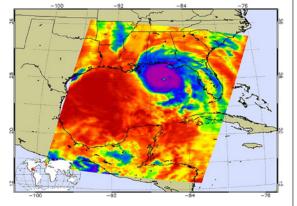


Figure 18: Hurricane Michael

Figure 19: Track of Typhoon Mangkhut

Figure 20: Typhoon damage

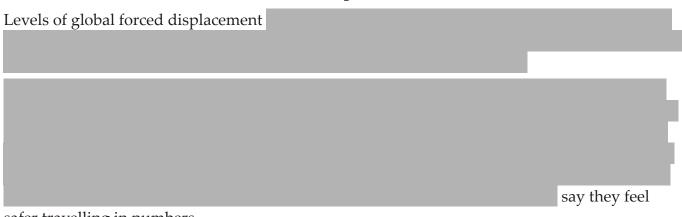
# **SECTION B: CULTURAL GEOGRAPHY**

### **MIGRATION**

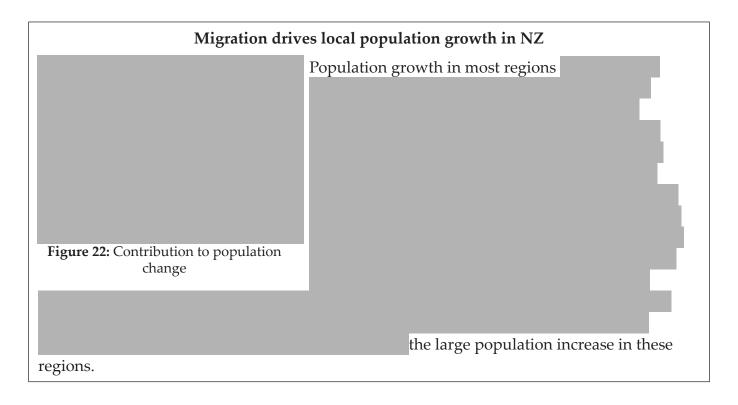


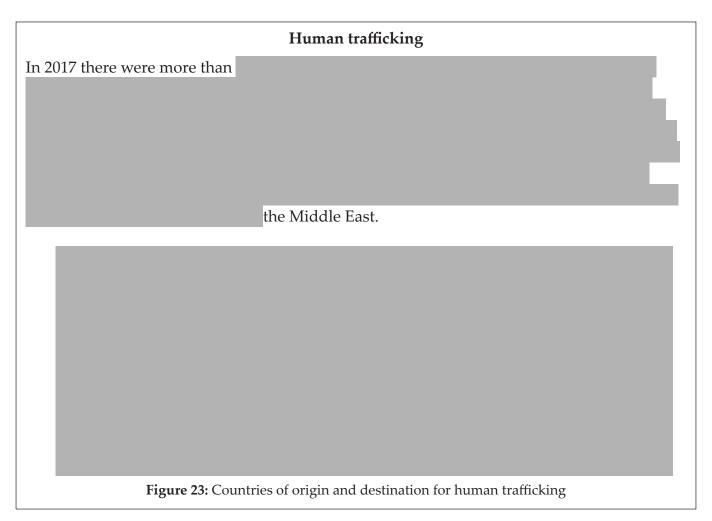
Figure 21: Global migration major transport routes

# Forced displacement



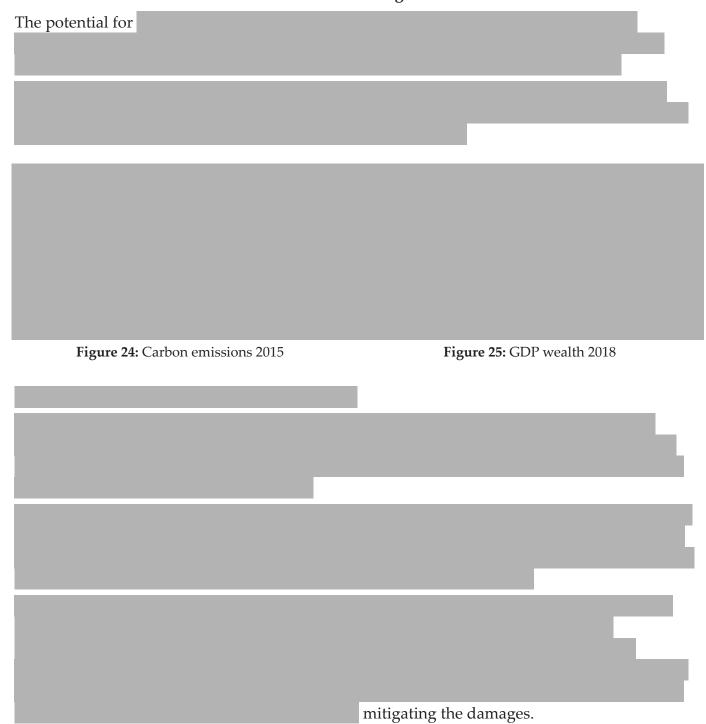
safer travelling in numbers.





# **INEQUALITY**

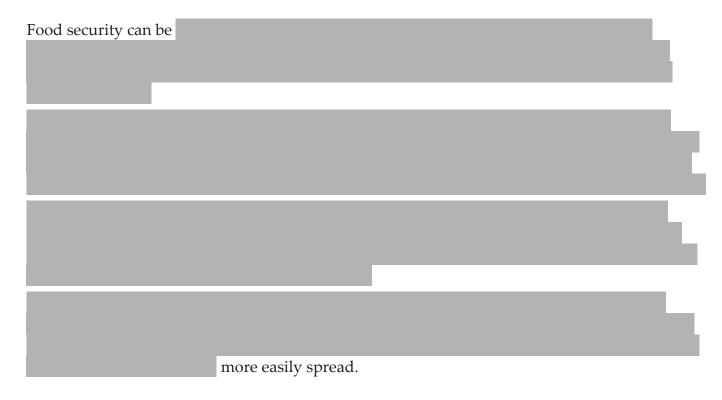
# Climate change



# Poverty



Figure 26: Where extreme poverty persists



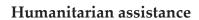
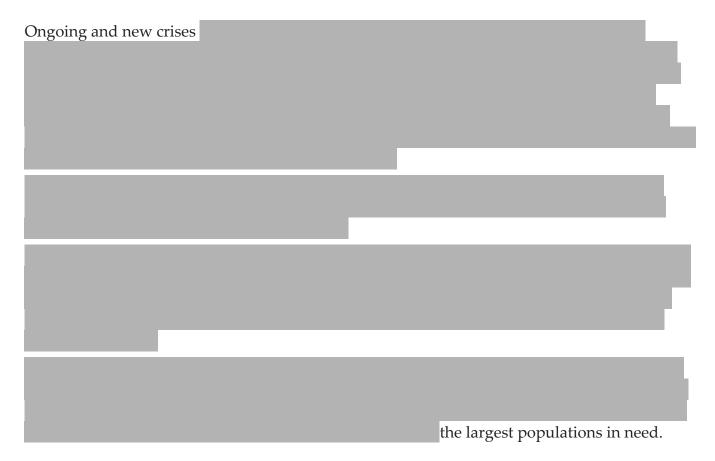




Figure 27: US foreign aid

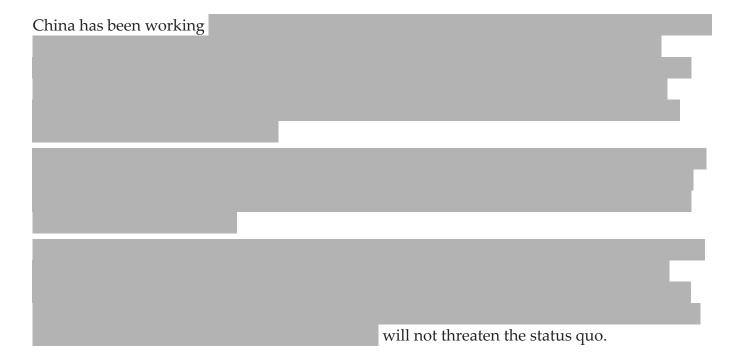


# **TRADE**

# **Economic links**



Figure 28: Top container ship routes



# Territorial disputes

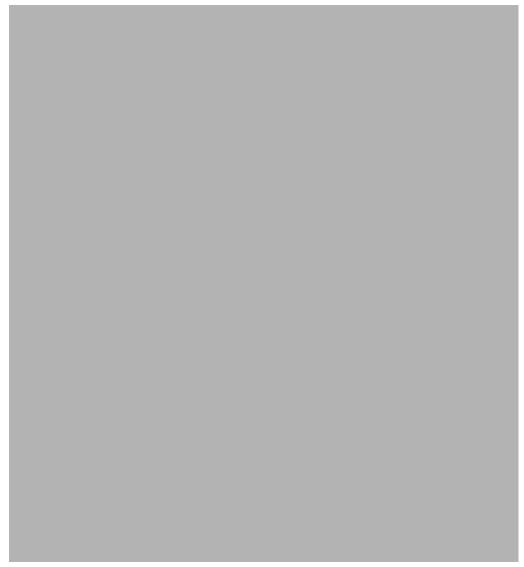


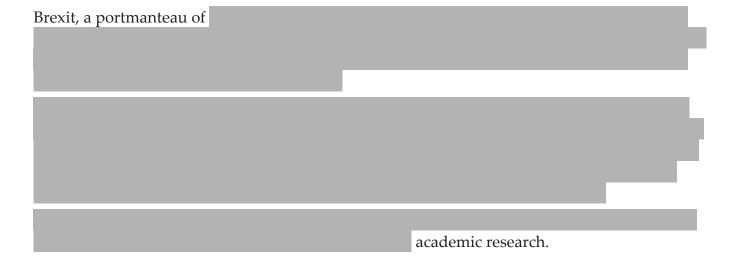
Figure 29: South China Sea claims



# Political change: Brexit



Figure 30: European Union membership



### Acknowledgements

Material from the following sources has been adapted for use in this examination:

### Page 4

Figure 1: https://commons.wikimedia.org/wiki/File:Biomes\_ of the world.svg

Figure 2: http://anamelissa-scienceclass.blogspot. com/2010/11/summary6-world-biomes.html

### Page 5

Figure 3: https://academic.oup.com/view-large/ figure/28106739/jtm12017-fig-0001-m.jpeg

Text: https://sciencing.com/effect-geographyclimate-9860.html

### Page 6

### Figure 4 data from:

http://hikersbay.com/climate-conditions/samoa/apia/climate-conditions-in-apia.html?lang=en

http://cdnisclimategraphs.blogspot.com/2010/03/ christchurch-new-zealand.html

https://en.climate-data.org/oceania/new-zealand/canterbury/mount-cook-village-204158/

### Page 7

Text & Figure 5: https://e360.yale.edu/features/redrawing-the-map-how-the-worlds-climate-zones-are-shifting

### Page 8

Figures 6 & 8: https://e360.yale.edu/features/redrawing-the-map-how-the-worlds-climate-zones-are-shifting

Figure 7: https://en.wikipedia.org/wiki/Tornado\_Alley#/media/File:Tornado\_Alley\_Diagram.svg

Figure 9: https://phys.org/news/2017-02-climate-driven-permafrost.html

### Page 9

Figure 10: https://commons.wikimedia.org/wiki/File:Corrientes-oceanicas-en.svg. Public domain image.

Text: https://oceanexplorer.noaa.gov/facts/climate.html

### Page 10

Figure 11: https://serc.carleton.edu/details/images/181641.

Figure 12: https://www.munichre.com/touch/naturalhazards/en/publications/world-map-natural-hazards/index.html

Figure 13: https://journals.openedition.org/ cybergeo/25297?lang=en

### Page 11

Figure 14: https://www.straitstimes.com/asia/se-asia/ indonesia-rocked-by-volcanic-eruption-afterdevastating-sulawesi-quake

Figure 15: https://www.stuff.co.nz/world/asia/106395742/350-killed-by-floods-in-indias-kerala

Figure 16: https://www.caliper.com/featured-maps/maptitudeflood-events-map.html

### Page 12

Figure 17: "2018 Nov 9 California Wildfires via TERRA" by NASA (https://commons.wikimedia.org/wiki/File:2018\_Nov\_9\_California\_Wildfires\_via\_TERRA.jpg). Public domain image.

Text: https://en.wikipedia.org/wiki/2018\_California\_ wildfires

Figure 18: "NASA's AIRS captures Hurricane Michael off Florida coast" by NASA / JPL-Caltech (https://www. nasa.gov/feature/jpl/all-eyes-on-hurricane-michael). Public domain image.

Figure 19: https://www.rappler.com/nation/special-coverage/ weather-alert/211701-typhoon-mangkhut-pagasaforecast-september-11-2018-11am

Figure 20: https://www.standard.co.uk/news/world/typhoon-mangkhut-deaths-at-least-12-killed-in-terrifying-storm-in-the-philippines-a3936776.html

### Page 13

Figure 21 and text: https://news.nationalgeographic. com/2015/09/150919-data-points-refugeesmigrants-maps-human-migrations-syria-world/

### Page 14

Figure 22 and text: https://www.stats.govt.nz/news/migration-drives-local-population-growth

Figure 23: https://commons.wikimedia.org/wiki/ File:Trafficking\_of\_women,\_children\_and\_men.png

Text (trafficking): https://humantraffickingawarness.weebly. com/global-trafficking.html and https://www. humanrightsfirst.org/

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Figure 24: https://worldmapper.org/maps/carbonemissions-2015/

Figure 25: https://worldmapper.org/maps/gdp-2018/

Text: https://www.opencanada.org/features/inequalityexplained-7-ways-climate-change-and-inequalityare-connected/

### Page 16

Figure 26: http://www.visualcapitalist.com/decline-extremepoverty-perspective/

### Page 17

Text: http://devinit.org/wp-content/uploads/2017/06/GHA-Report-2017-Executive-summary.pdf

Figure 27: http://www.infobarrel.com/US\_Foreign\_Aid\_A\_ Historical\_Overview

### Page 18

Text & Figure 28: https://geopoliticalfutures.com/top-containership-trade-routes/

http://www.worldshipping.org/about-the-industry/global-trade/trade-statistics

### Page 19

Text & Figure 29: https://commons.wikimedia.org/wiki/ File:South\_China\_Sea\_claims\_map.jpg

### Page 20

Text: https://en.wikipedia.org/wiki/Brexit

Figure 30: https://maproom.net/wp-content/uploads/Maproom-EU-countries.png