

A-level GEOGRAPHY

Paper 1 Physical Geography

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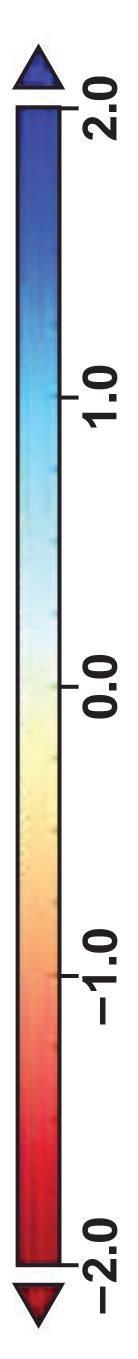
Insert

Changes in the terrestrial water system in response to human activity and climate change between 2012 and 2016 imate change between 2012 and 2016

KEY

- imate change impact Probable c
- imate change impact Possible cli
- Probable direct human impact
- O Possible direct human impact
- Probable natural variability

thickness/water level equivalent (cm/year) Change in ice



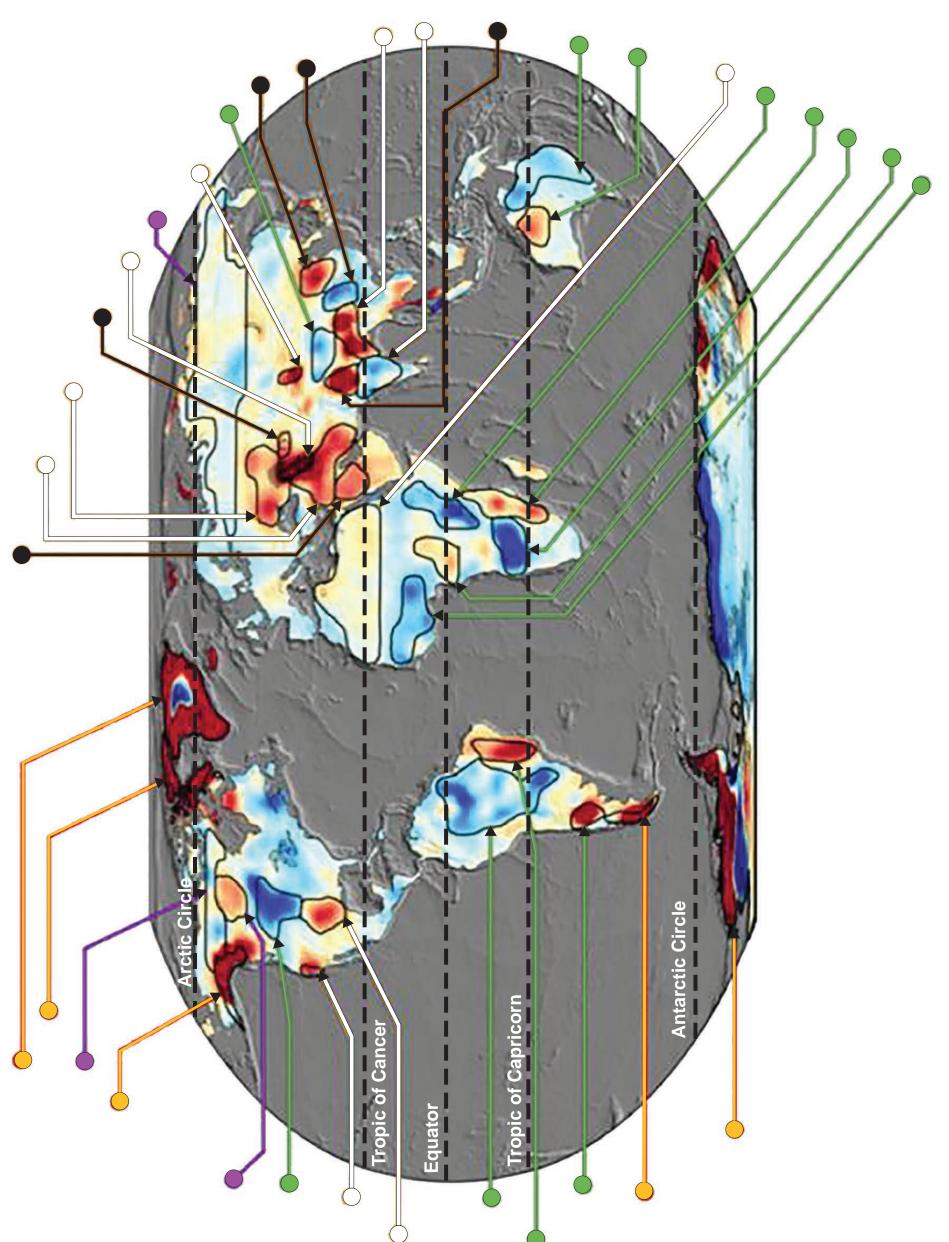
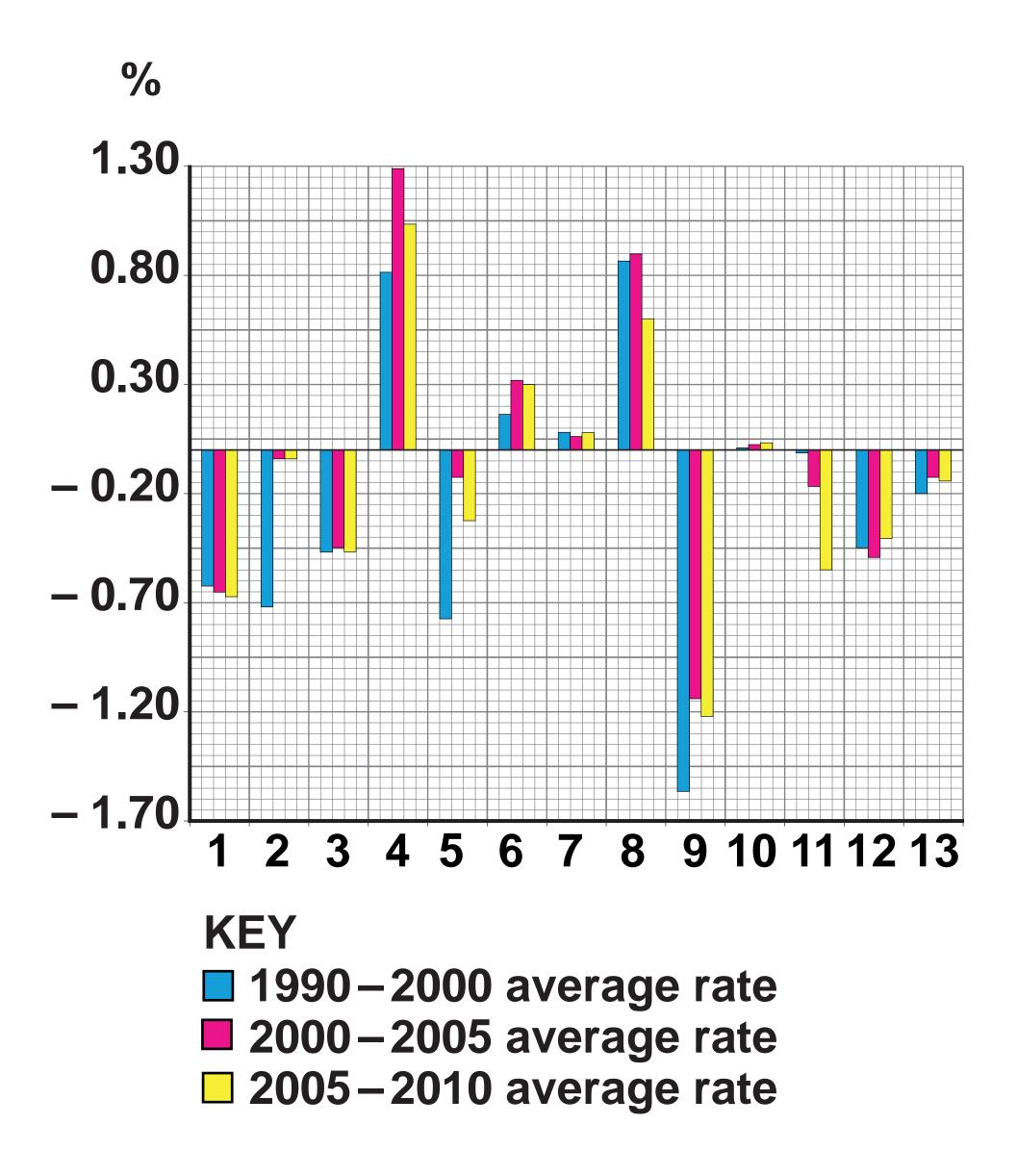


FIGURE 2
Regional changes in forest cover between 1990 and 2010

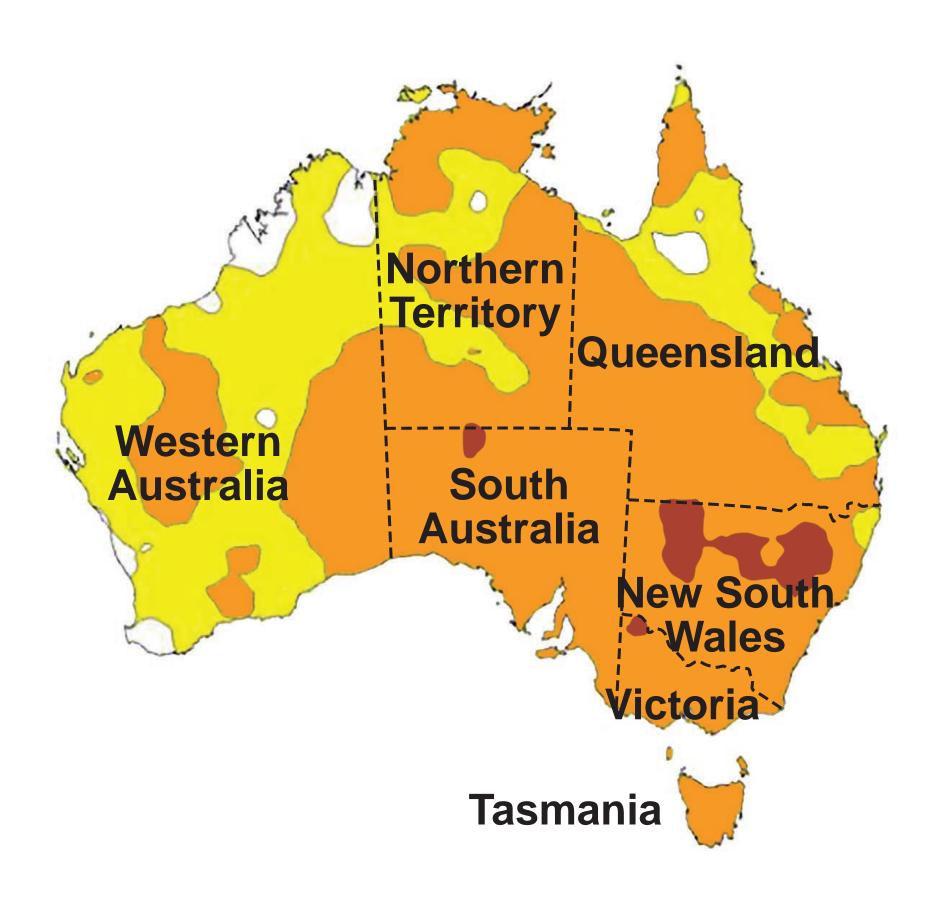


KEY

- 1 Eastern and Southern Africa
- 2 Northern Africa
- 3 Western and Central Africa
- 4 East Africa
- 5 South and South east Asia
- 6 Western and Central Asia
- 7 Europe
- 8 Caribbean
- 9 Central America
- 10 North America
- 11 Oceania
- 12 South America
- 13 World

FIGURE 3a

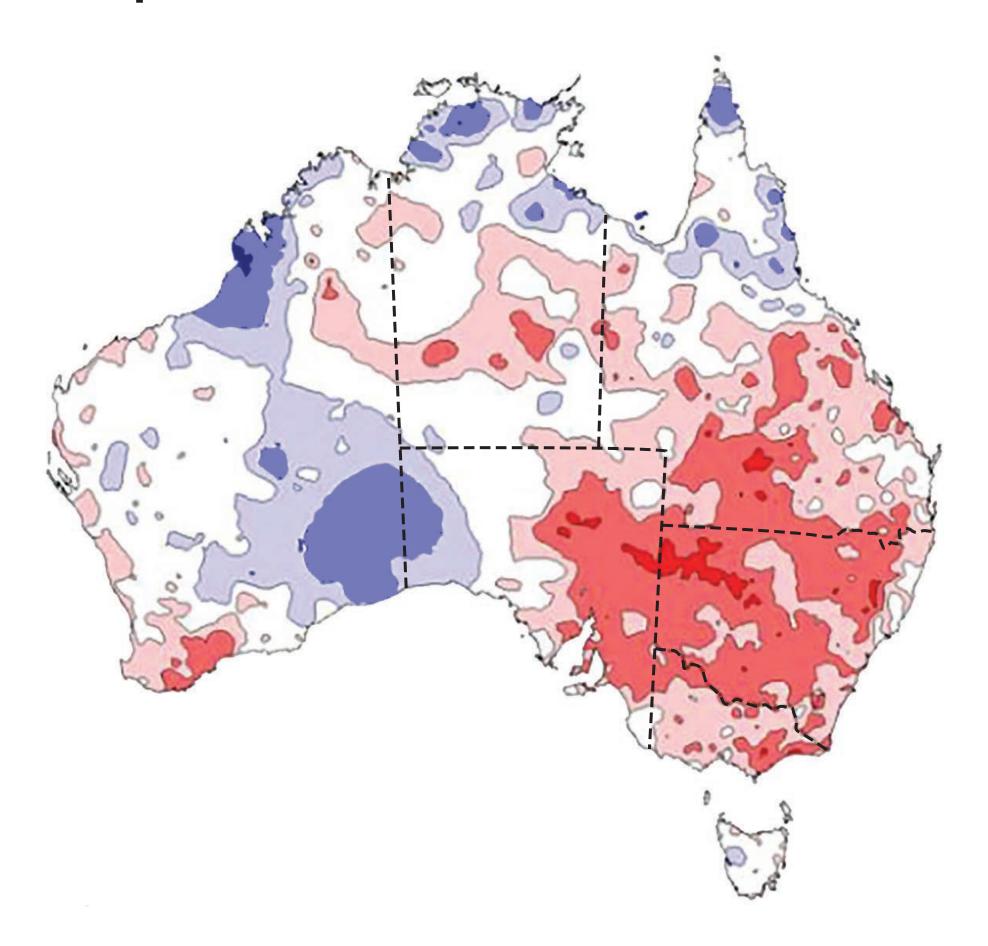
Annual mean temperatures in Australia in 2018 compared to historical temperature observations



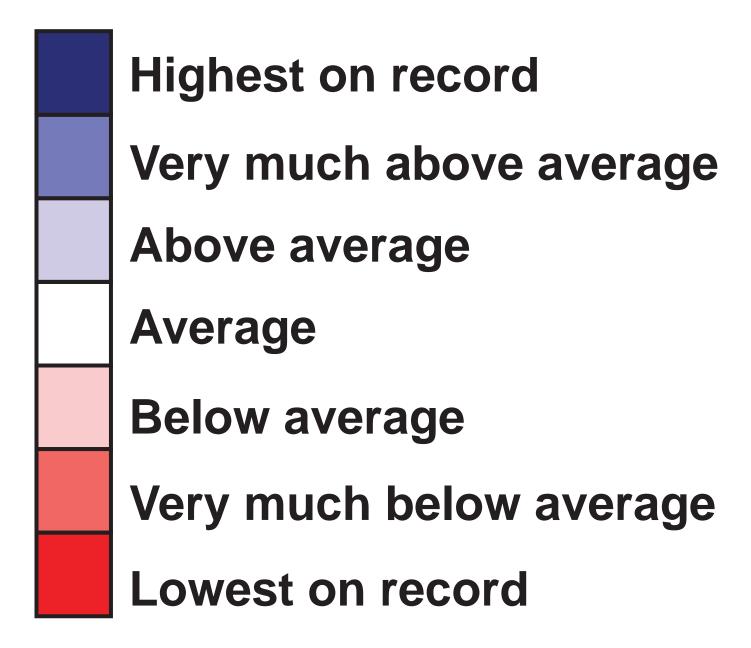
KEY Temperature

Highest on record
Very much above average
Above average
Average
Below average
Very much below average
Lowest on record

FIGURE 3b Annual rainfall in Australia in 2018 compared to historical rainfall observations



KEY Rainfall

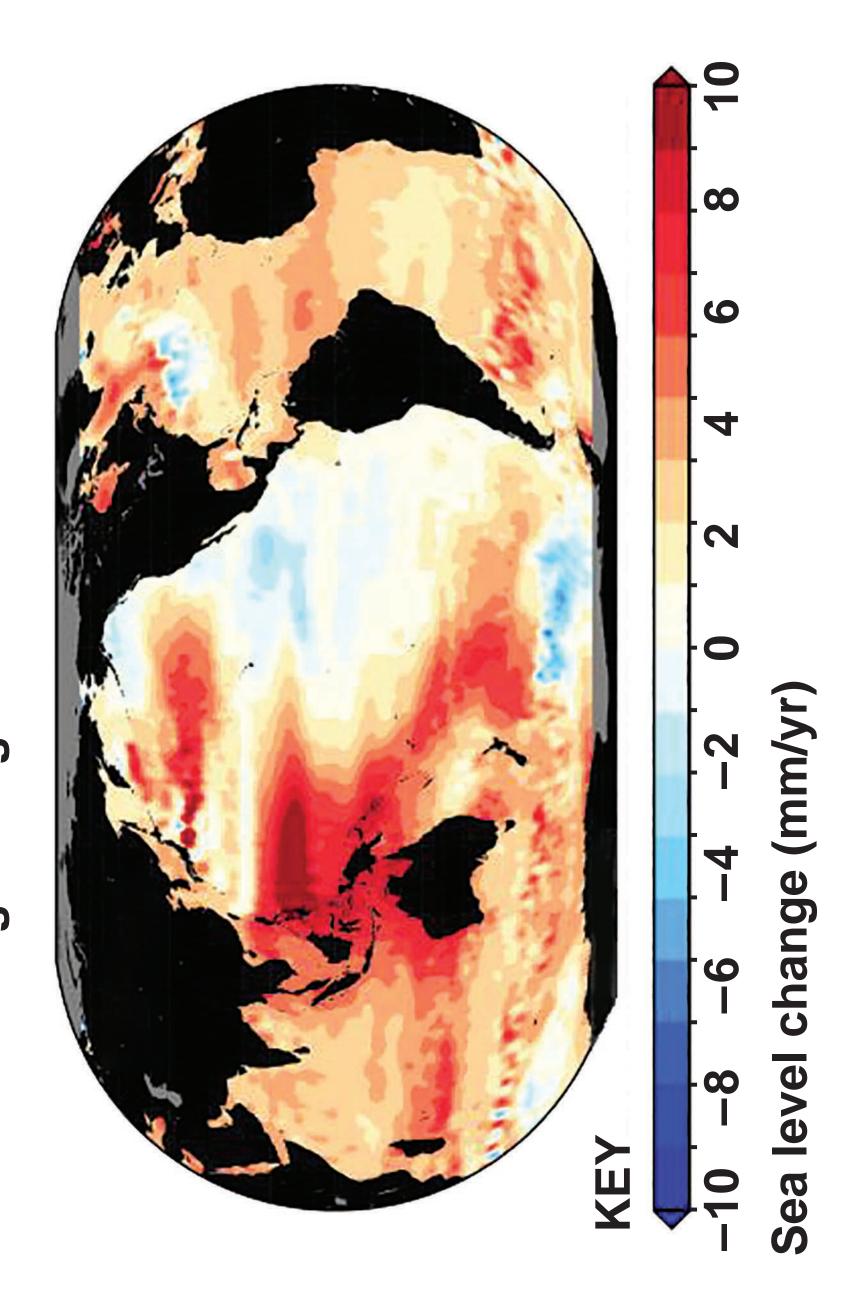




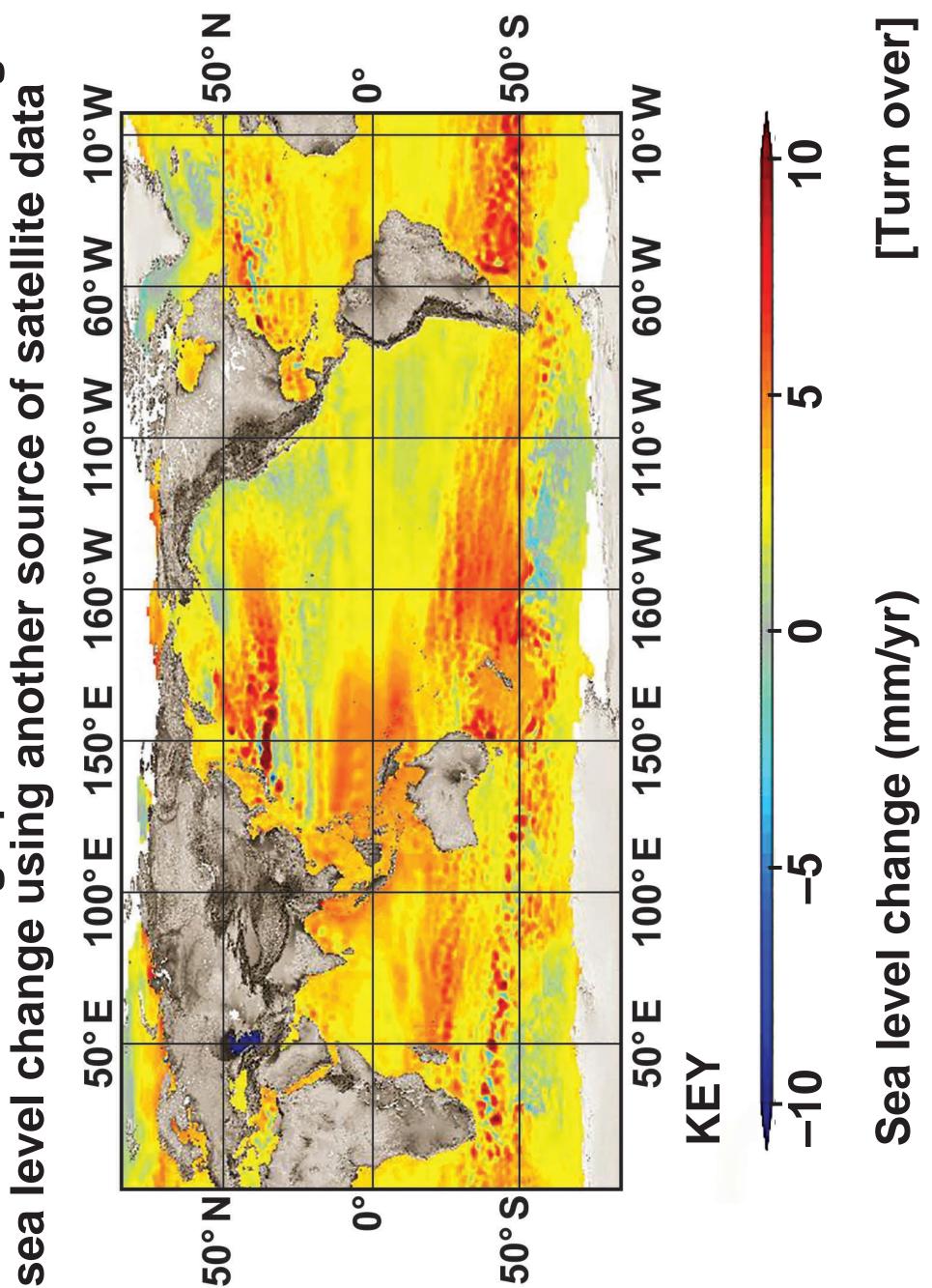
Note: The White Desert extends over 300 km² of the Egyptian Sahara Desert. Sedimentary rocks formed from oceanic deposition in an earlier geological era are now subject to hot desert conditions. Features such as those illustrated protrude above the landscape to give the White Desert its distinctive character. Mushroom-shaped formations can be as high as 4.5 metres.

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Seographical variation in the 1992-2014 global FIGURE 5a – Geographical variation sea level change using satellite data



Seographical variation in the 1992-2019 global ge using another source of satellite data sea level chan FIGURE 5b -





Note: Runcorn lies about 25 kilometres from the sea on the south bank of the tidal estuary of the River Mersey where the tidal range can be as high as 9 metres. This particular photograph was taken at low tide looking towards the north bank of the estuary. The River Mersey ends its approximately 110 km course in this tidal estuary.

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FIGURE 7a

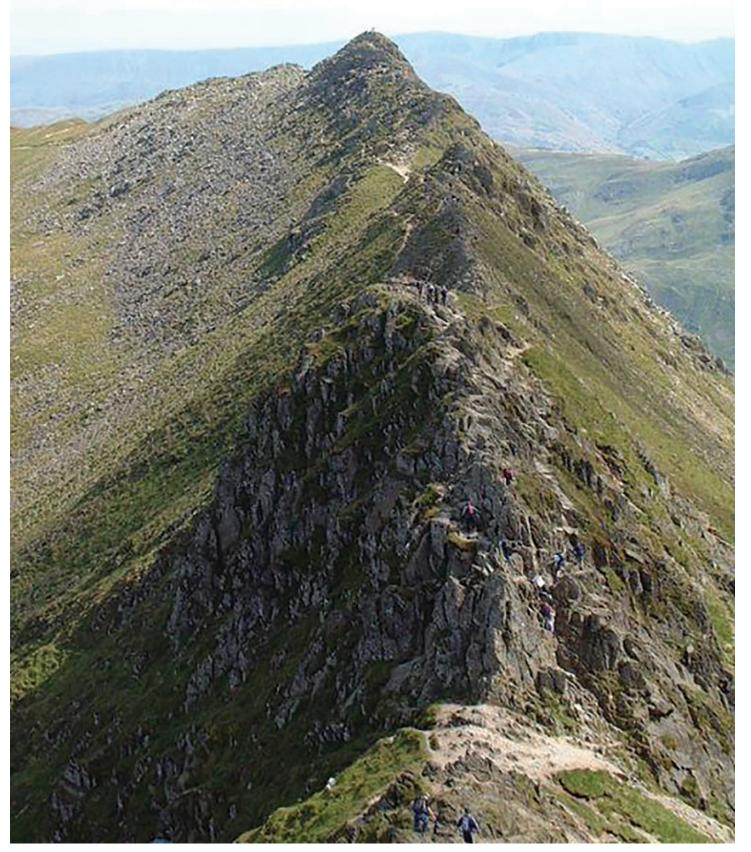
The distribution, size and type of selected Himalayan glaciers

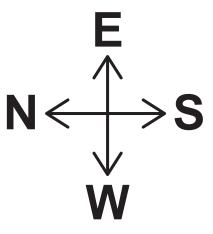
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FIGURE 7b

mass balance of the selected glaciers between The change in 2000 and 2016

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Note: Striding Edge runs for several kilometres from Helvellyn Peak (950 metres) in the west towards Ullswater in the east. To the north is Red Tarn, a large corrie lake. The predominant rock type is igneous and dates back to a period of vulcanicity around 450 million years ago.

some companies and individuals to the Haiti Responses by earthquake, 20

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FIGURES 10a, 10b and 10c

coastal flooding risk in Louisiana, USA, based Data related to coastal flooding risk in Louisiana, USA, bas upon a 2017 master plan. The information is based upon a 1 in 100 year extreme flood event.

FIGURE 10a

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rica. Tropical storms are regular occurrences in Note: Louisiana is located on the southern coast of the United States of America. Tropical storms are regular occurrences in the area. The local geomorphology is a contributary factor to the hazard.

FIGURE 10b

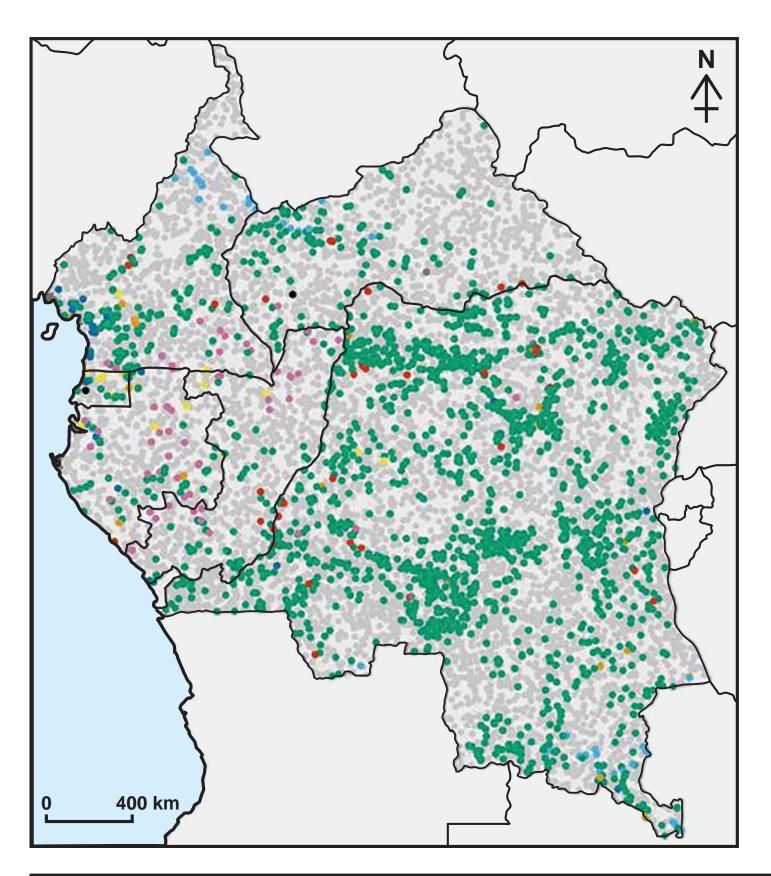
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FIGURE 10c

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capacity to anticipate, cope with, resist, or recover from the impact of the flood event. characteristics of a person or group that influences their Note: In broad terms, social vulnerability refers to the

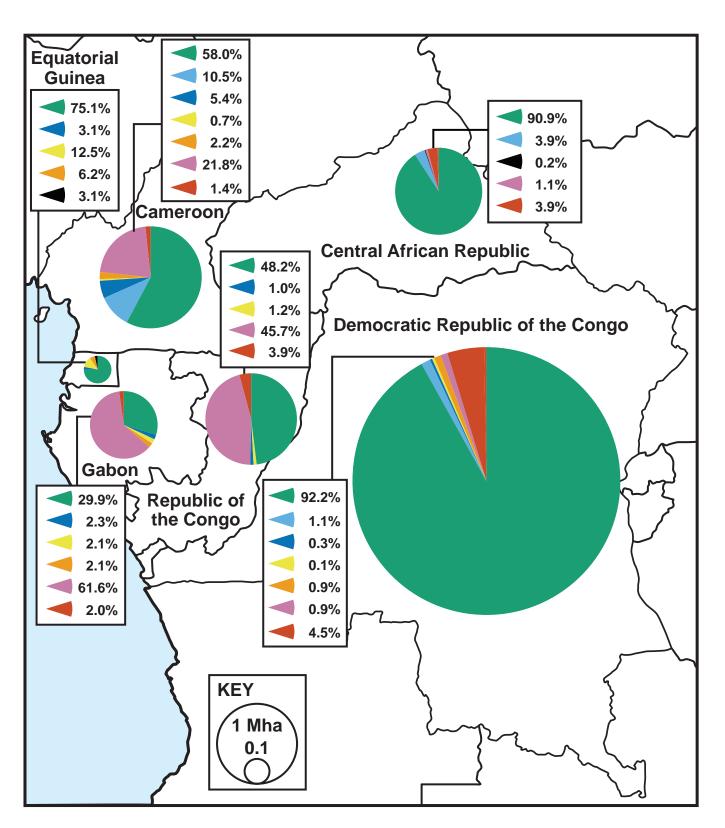
FIGURE 11a – The cause of deforestation in equatorial west Africa, 2000–2014



Reason for forest clearing					
Agriculture			Construction		
Small scale rotational	Small scale semi-permanent	Large scale	Roads	Residential and commercial	
•	•	•	•	•	

Reason for forest clearing			
Mining	Industrial selective logging	Natural fires	No forest loss
•		•	•

FIGURE 11b – National estimates of forest loss by area and cause in equatorial west Africa, 2000–2014



Reason for forest clearing					
Agriculture			Construction		
Small scale rotational	Small scale semi-permanent	Large scale	Roads	Residential and commercial	
•	•	•	•	•	

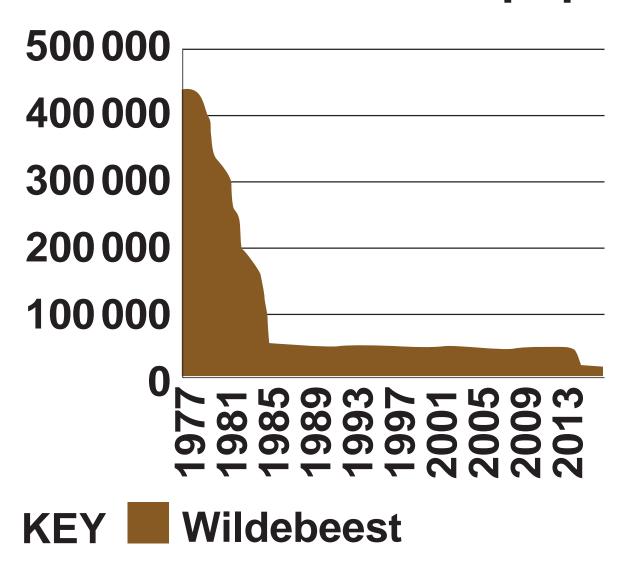
Reason for forest clearing			
Mining	Industrial selective logging	Natural fires	No forest loss
•		•	•

A range of issues facing game parks and reserves in Kenya, east Africa

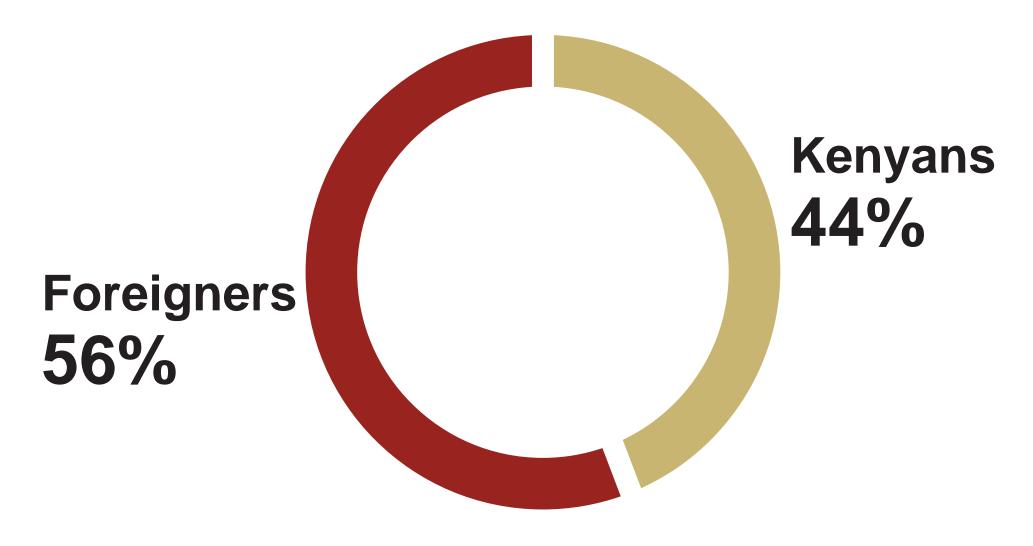


CONSERVATION – Researchers say human encroachment of protected areas should be ranked among major threats like poaching and climate change

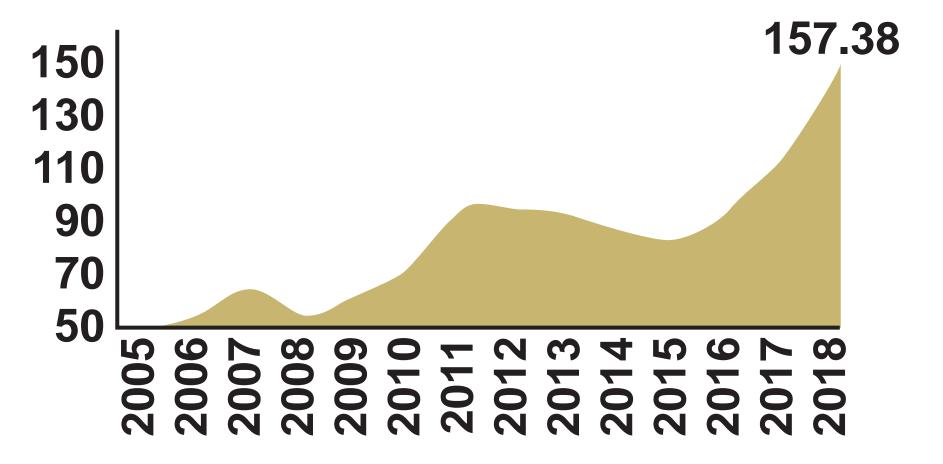
Reduced wildebeest population



Visitors to game parks and reserves



Tourism earnings (Billion Kenyan shillings)



How illegal grazing in the Masai Mara Game Reserve is hurting wildlife.

Comparative analysis from 1977 to 2016

- Cattle population is up by 1053%
- Sheep and goats up by 1174%
- Wildlife has gone down by up to 87.4%
- Only 174 269 wild animals migrate during the great migration, down from 477 560
- Zebras migrating have gone down by 20.4%

Park visitor traffic ('000s)

National parks and game reserves recorded visitor traffic of over 2.3 million annually.

367.7 Nairobi Orphanage

216 L. Nakuru

206.5 Hell's Gate

200.2 Impala sanctuary

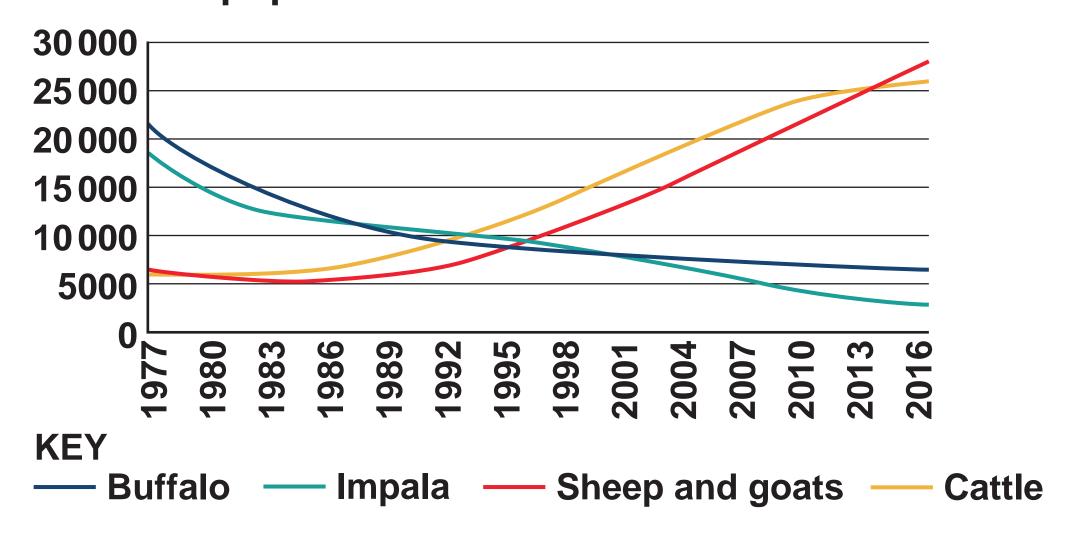
132.7 Masai Mara

154.5 Nairobi park

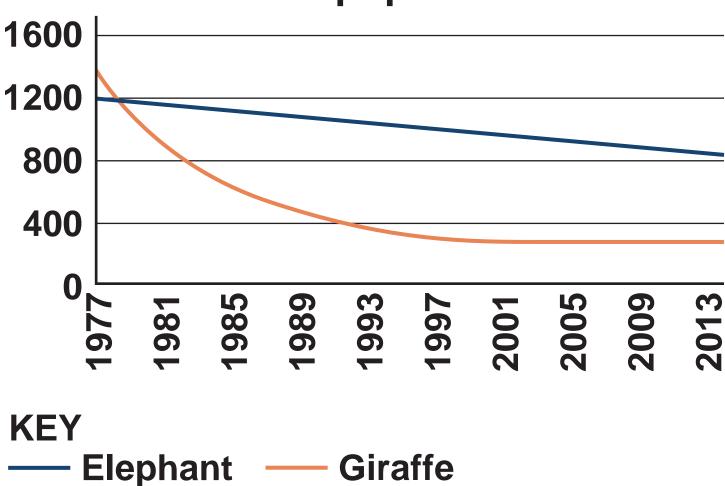
145.5 Amboseli

165.9 Nairobi Safari walk

Wild animal population has reduced while livestock population has increased



Reduced wildlife population



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