

APRIL 24, 2017

Sit anywhere

Get out stuff for notes

Physical Geo of Oceania

Map Quiz Thursday

Both Maps due

Landforms of Oceania

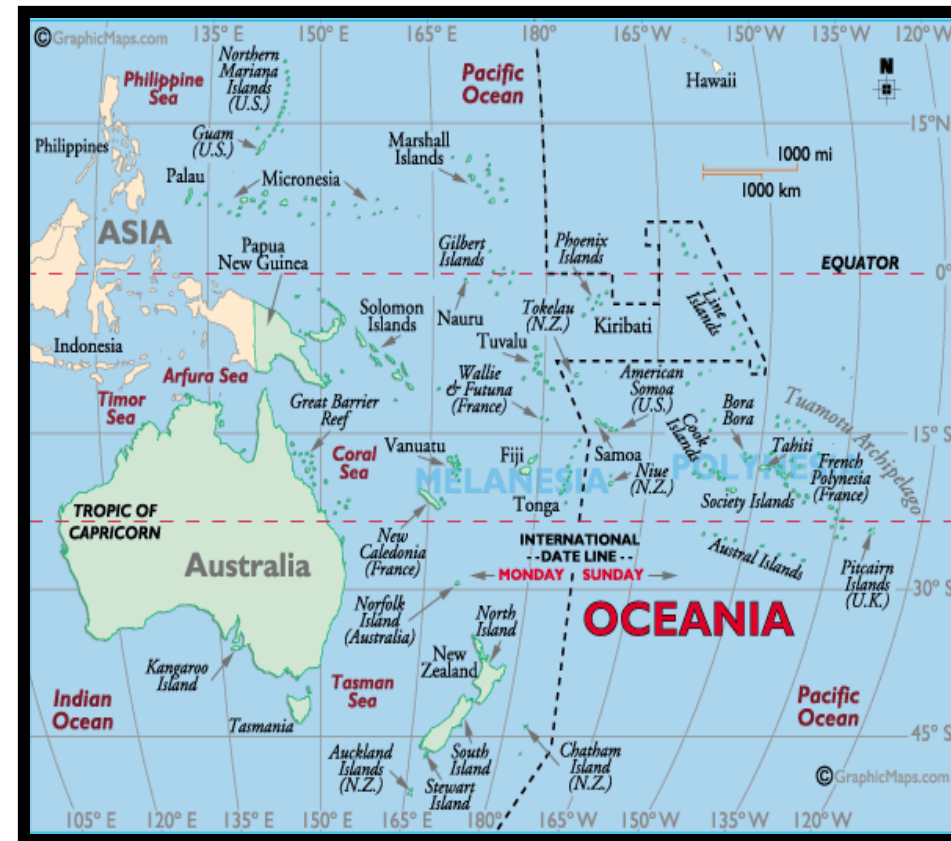
Estimate: more than 20,000 island not including Philippines and Indonesia.

New Zealand

Australia

Micronesia

Melaneisia



Oceania's Many Islands

High Islands

- created by Volcanoes



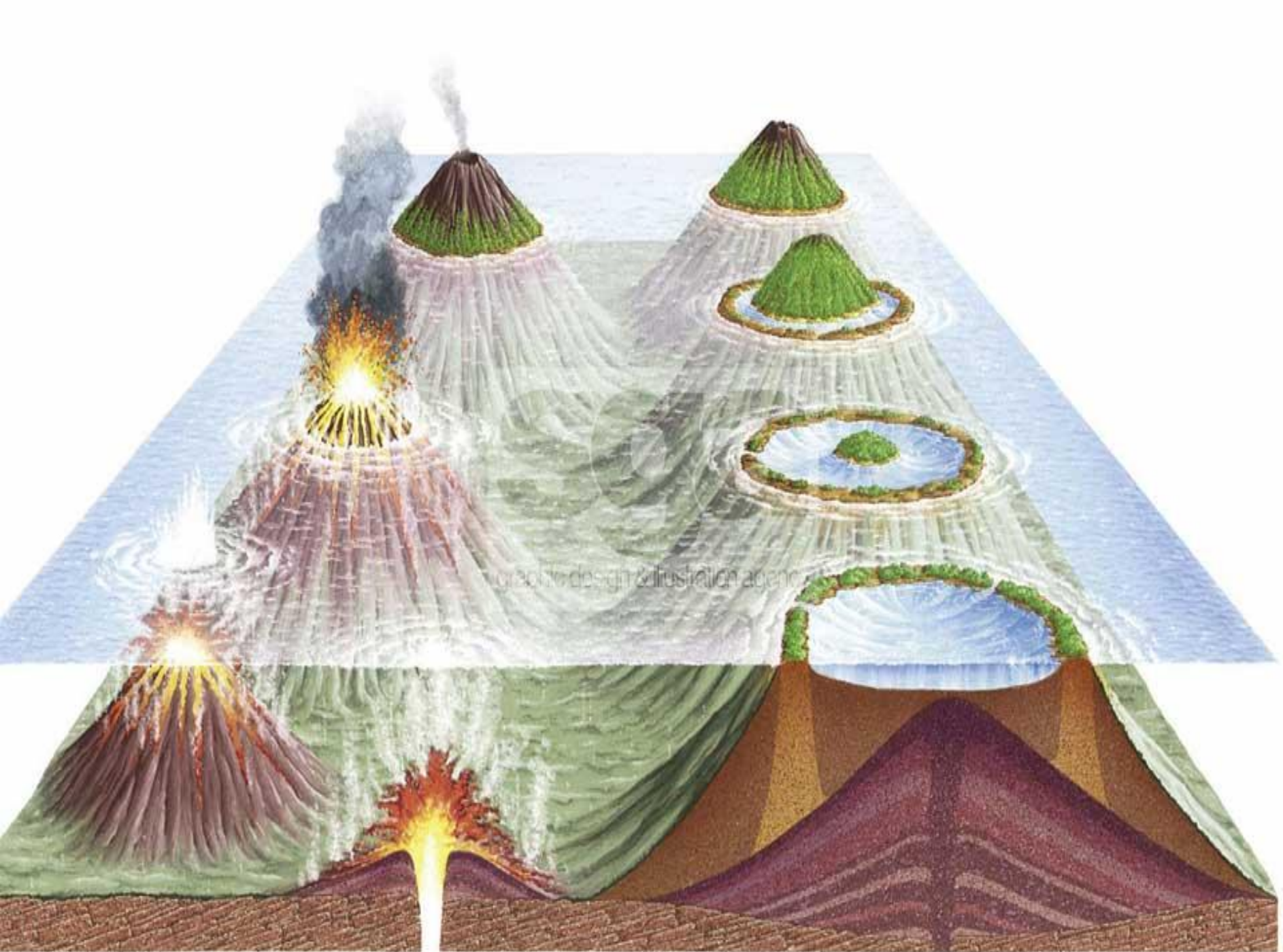
Low Islands (Atolls)

- created by coral reefs

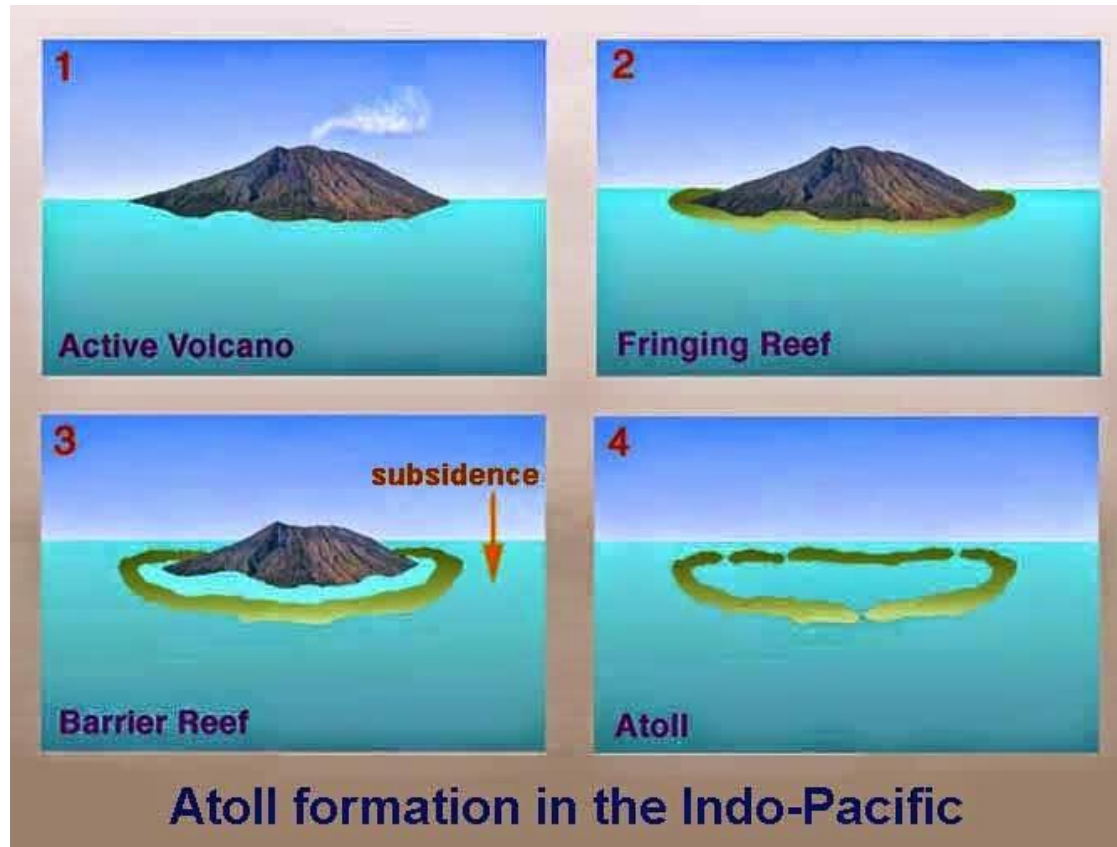
Cays

- Sand islands created by ocean currents





Stages of a Volcanic Island



Big Island, Hawaii



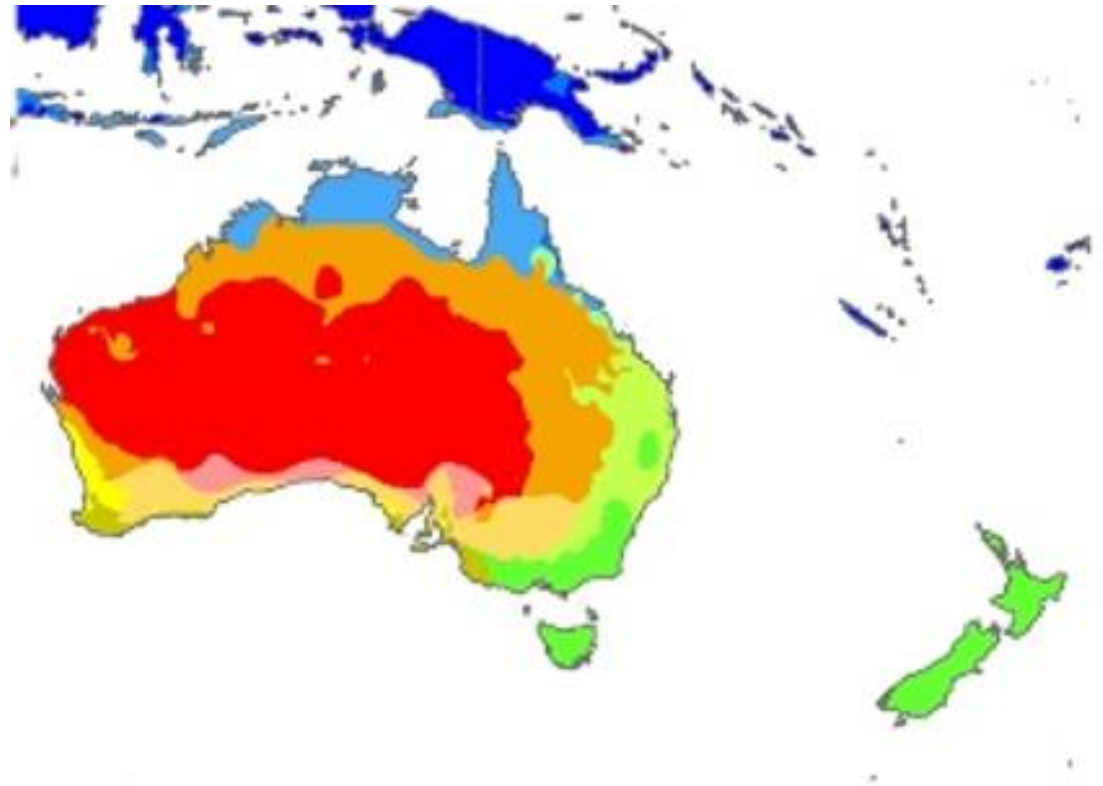
Bora Bora



Marshall Islands



Climate Zones



Moderate Climate Regions

Found in NZ and coastal Australia (Great Dividing Range)

Cool temperate forests

Mild Summers and Winters



Deserts

Outback

Central Australia

Characterized by less than
10" of rainfall a year



Highland Climate

Southern Alps of NZ



New Zealand

Two Islands

- North Island
 - Hilly mountains
 - Volcanic plateau
 - Fertile farmland
 - Forests
 - rivers
- South Island
 - Southern Alps
 - 360 glaciers
 - Forests
 - rivers



Australia

Smallest continent on earth

- Great Dividing Range
- Few Rivers
- Outback
- Great Barrier Reef
- Tasmania



Australia's Geographic Challenge

<https://www.youtube.com/watch?v=quNdaS895gE>

Great Barrier Reef

Largest reef in the world

Over 2500 separate reefs

Off the eastern coast of
Australia



Antarctica

Mountains

- Transantarctic Mountains
- East Antarctic Plateau
- Technically a desert



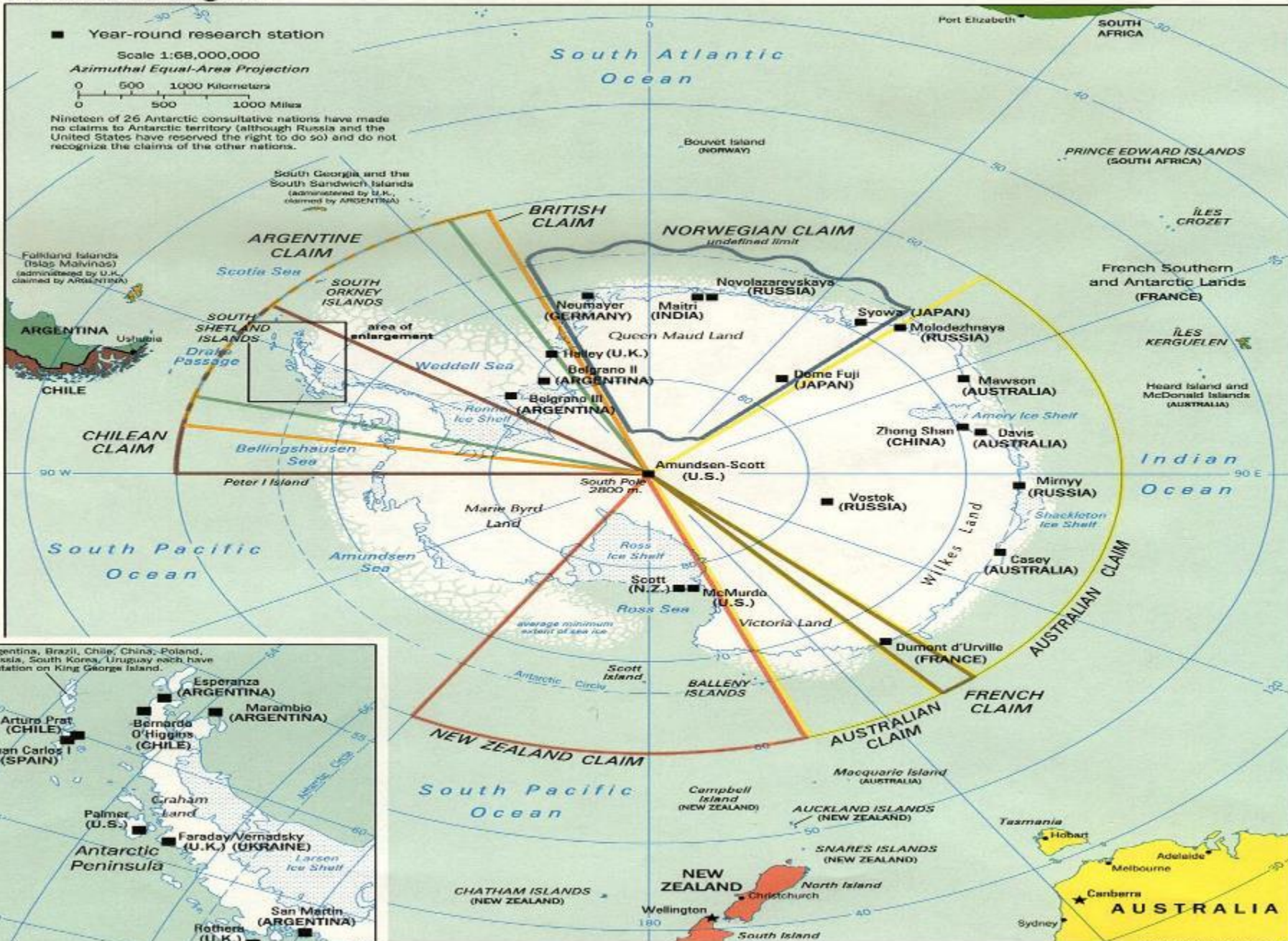
Neutral Antarctica

Antarctica is the largest supply of fresh water in the world.

Many geologists believe there is a wealth of mineral resources below the ice.

In 1991, 26 nations agreed not to mine Antarctica for 50 years.

Antarctic Region



Human-Environment Interaction

Navigating the Pacific

- Use of stars, sun, and ocean currents to navigate
- Settle thousands of isolated islands
 - Develops many unique cultures
- Voyager canoes with sails and two hulls



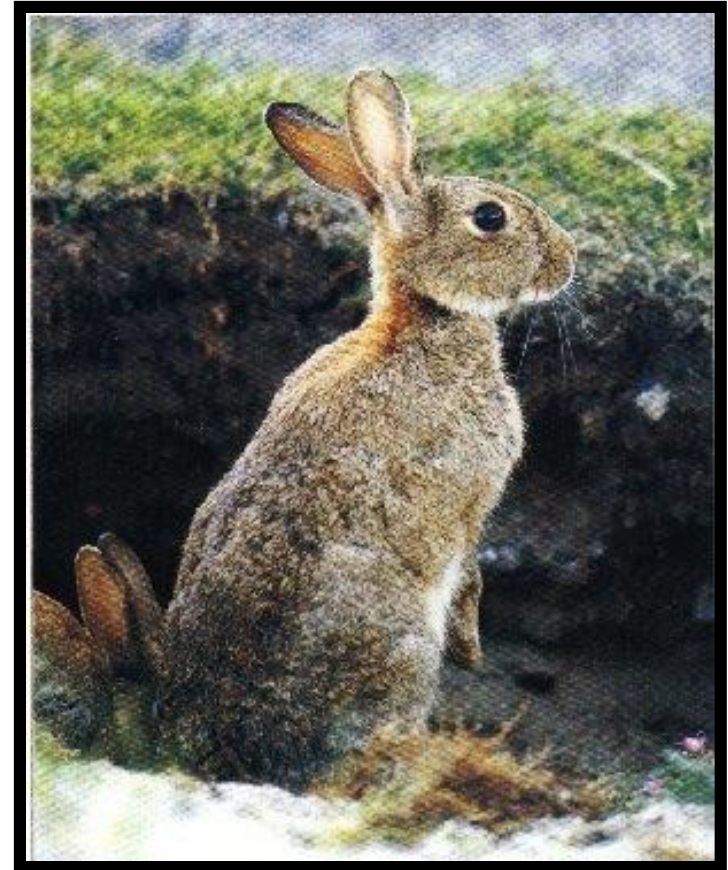
Invasion of Rabbits

Rabbits introduced in 1859 for hunting

Invasive species

Reproduced very quickly

No natural predators



Control Measures

Disease

Introduction of foxes

Rabbit Proof Fence



Rabbit Rebound

90% of rabbits killed by disease

Survivors develop immunity and population rebounds



Threat of Invasive Species

https://www.youtube.com/watch?v=spTWwqVP_2s

Nuclear Testing

In the 1940s the United States conducted nuclear testing in the Marshall Islands.

The Bikini Atoll was the designated test site.

The U.S. removed 167 inhabitants and conducted over 60 nuclear tests.



Long Term Effects

The testing vaporized several small islands and contaminated the entire area with high levels of radiation.

In the 1960s, the U.S. government declared the Bikini Atoll safe for human habitation however, after the people moved back, many became ill or died.

In 1978, doctors discovered dangerous levels of radiation in the islanders' bodies and they were again removed from the islands.

