

VA #1 Joshua Tree National Park

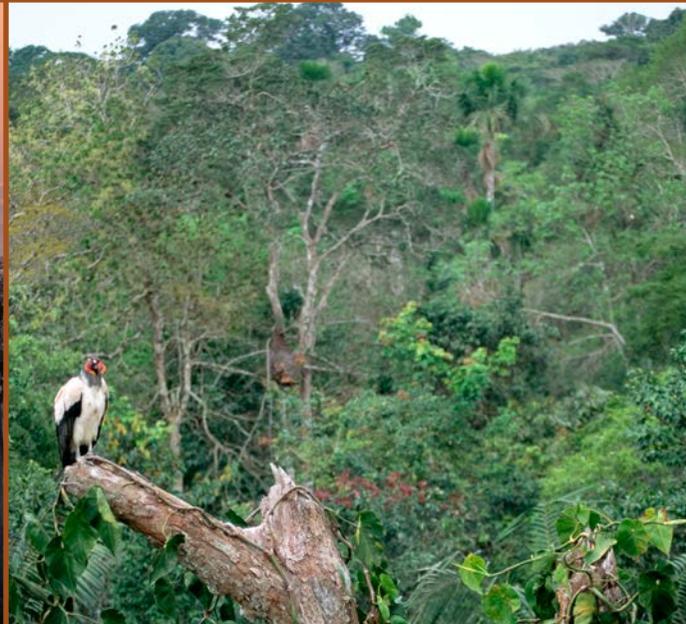


This photograph shows the landscape of Joshua Tree National Park. The Joshua tree (*Yucca brevifolia*) is the largest and most common plant in the park.

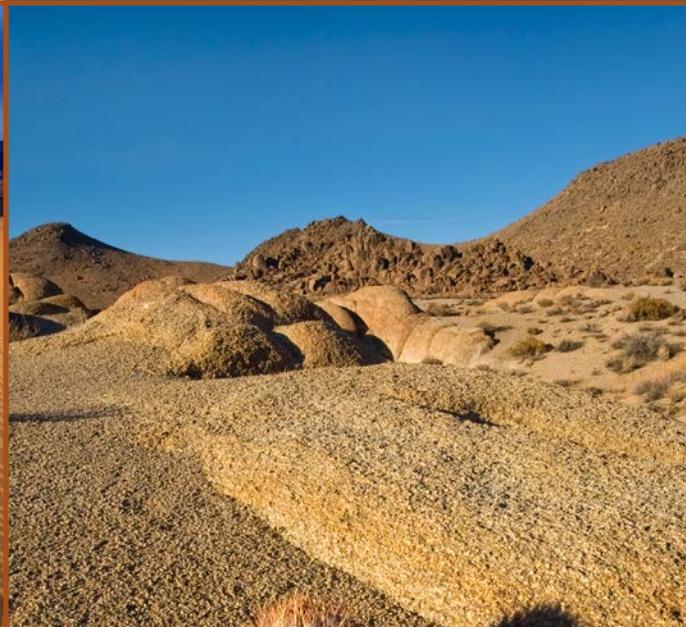
VA #2 Barstow-Vegas Wagon Trail



VA #3 Life in the Amazon Rainforest



VA #4 Life in the Mojave Desert

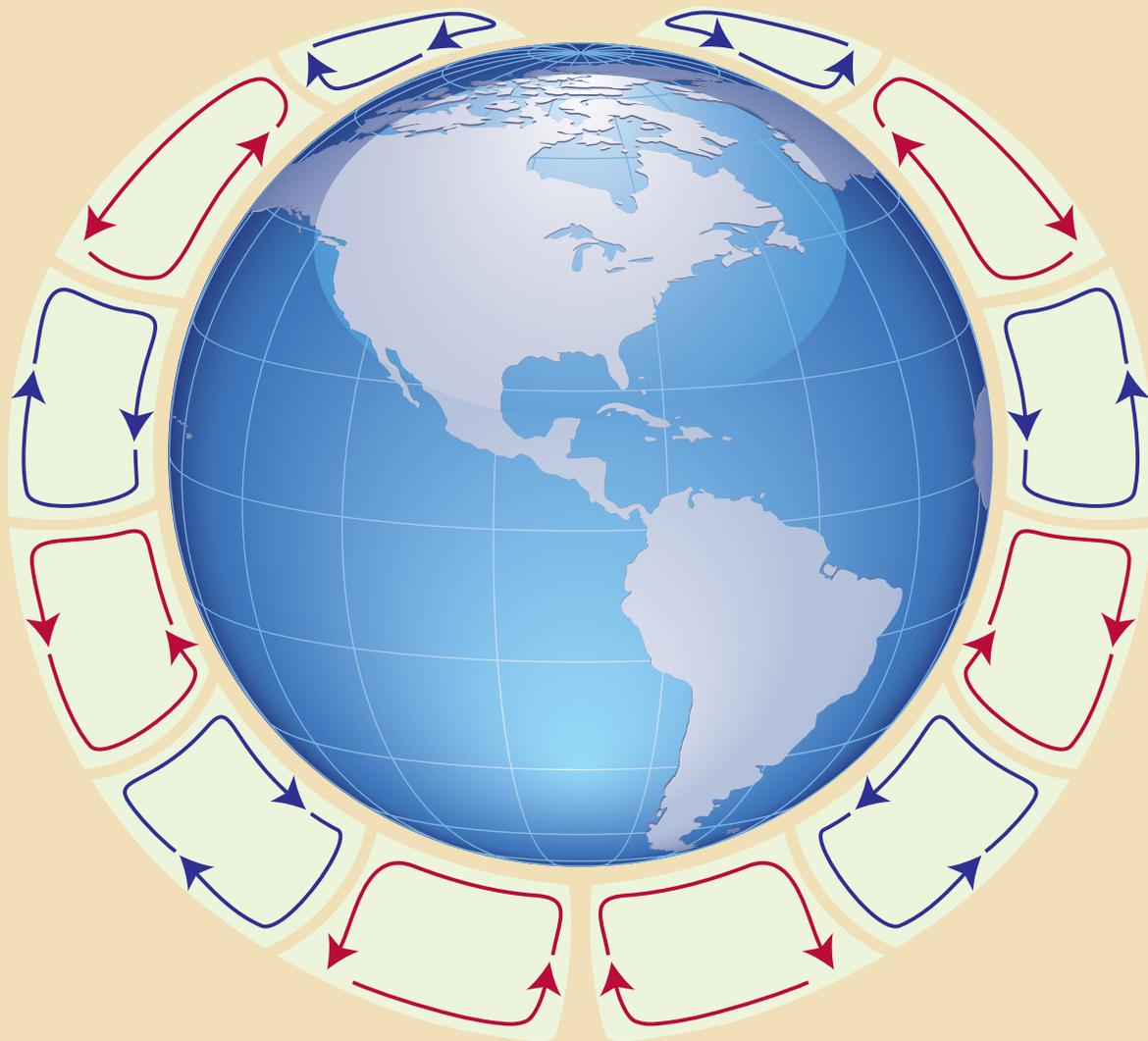


VA #5 Latitude

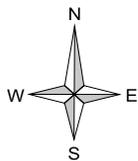
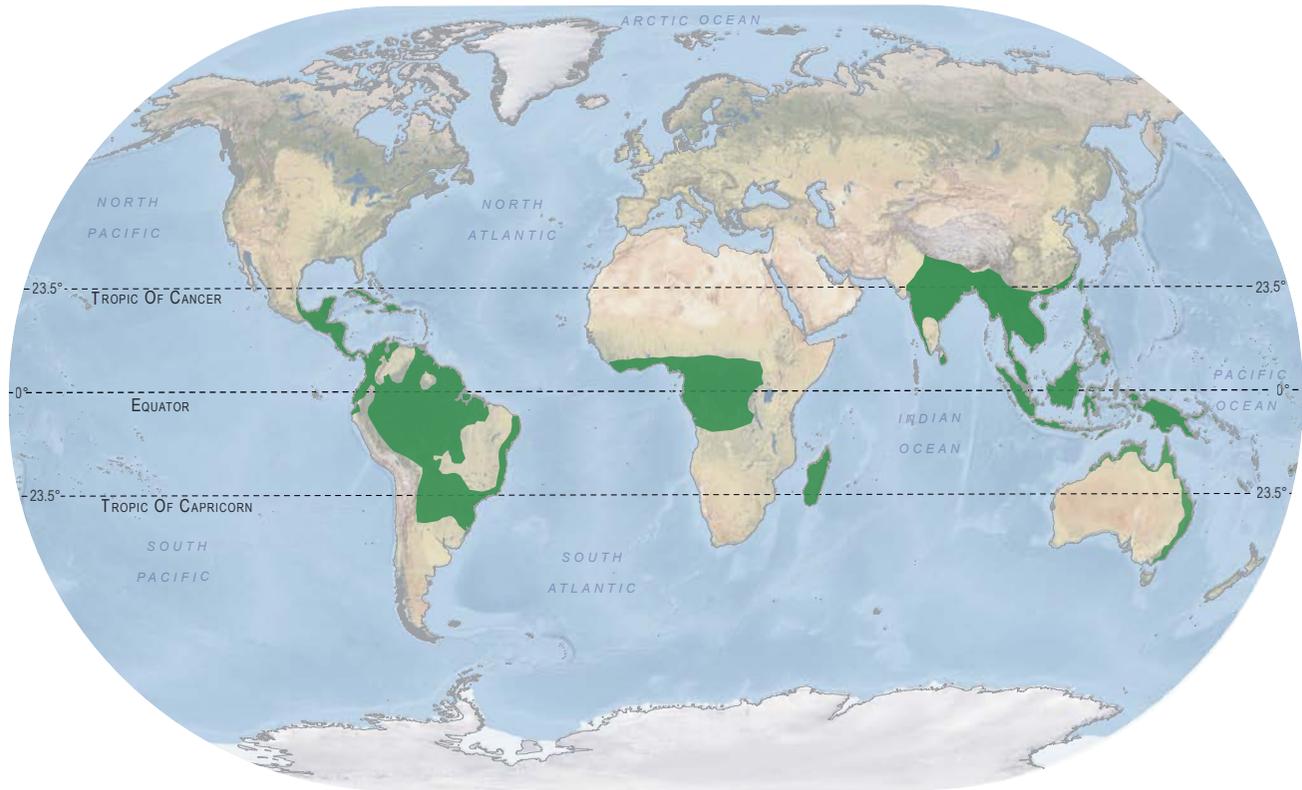
Latitude



VA #6 Global Convection Currents



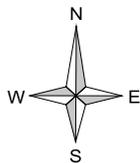
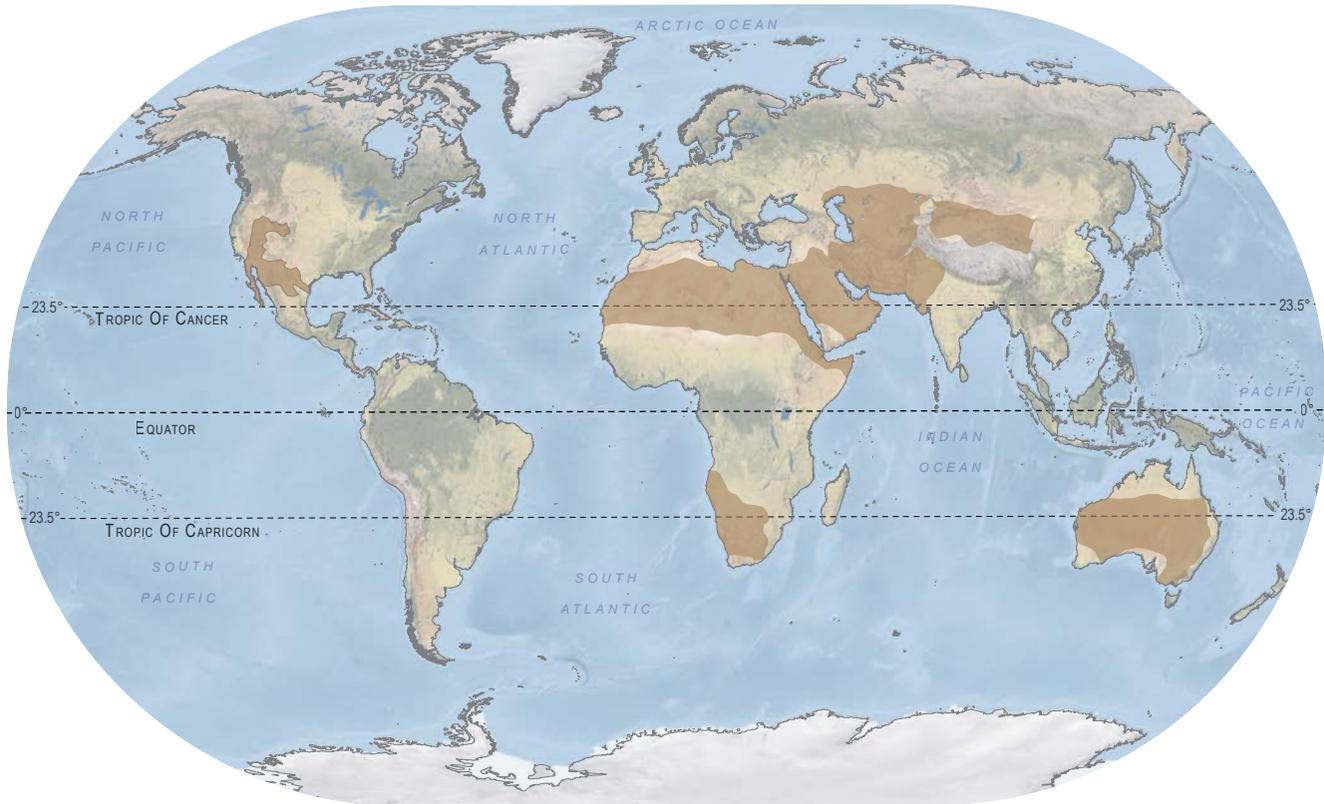
VA #7 Global Distribution of Rainforests



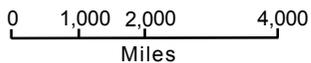
 Rainforests

0 1,000 2,000 4,000
Miles

VA #8 Global Distribution of Deserts



 Deserts



VA #9 Rainforest Uses

Ecosystems Goods (5 points)

Trees

Flowers

Soil

Water

Oxygen

Ecosystems Services (5 points)

Oxygen production

Carbon sequestration (long-term storage of carbon in forests, soil, and oceans)

Erosion control

Nutrient cycling

Regulation of water cycle

Human Uses (5 points)

Timber for construction

Agricultural crop seed sources

Pharmaceutical/medicinal discovery sources

Foodstuffs, including spices, nuts, and berries

Roots of plants keep soil in place and prevent erosion

VA #10 Solar and Wind Power from the Desert



Solar Collectors



Wind Turbines

VA #11 Desert Uses

Ecosystems Goods (5 points)

Land

Plants

Animals

Petroleum—crude oil

Minerals, precious metals, and gemstones

Ecosystems Services (5 points)

Atmospheric services (for example heat, wind)

Water supply/storage

Potential for solar and wind power

Erosion control

Pollination by insects

Human Uses (5 points)

Solar and wind energy

Recreation

Food production

Land for farming

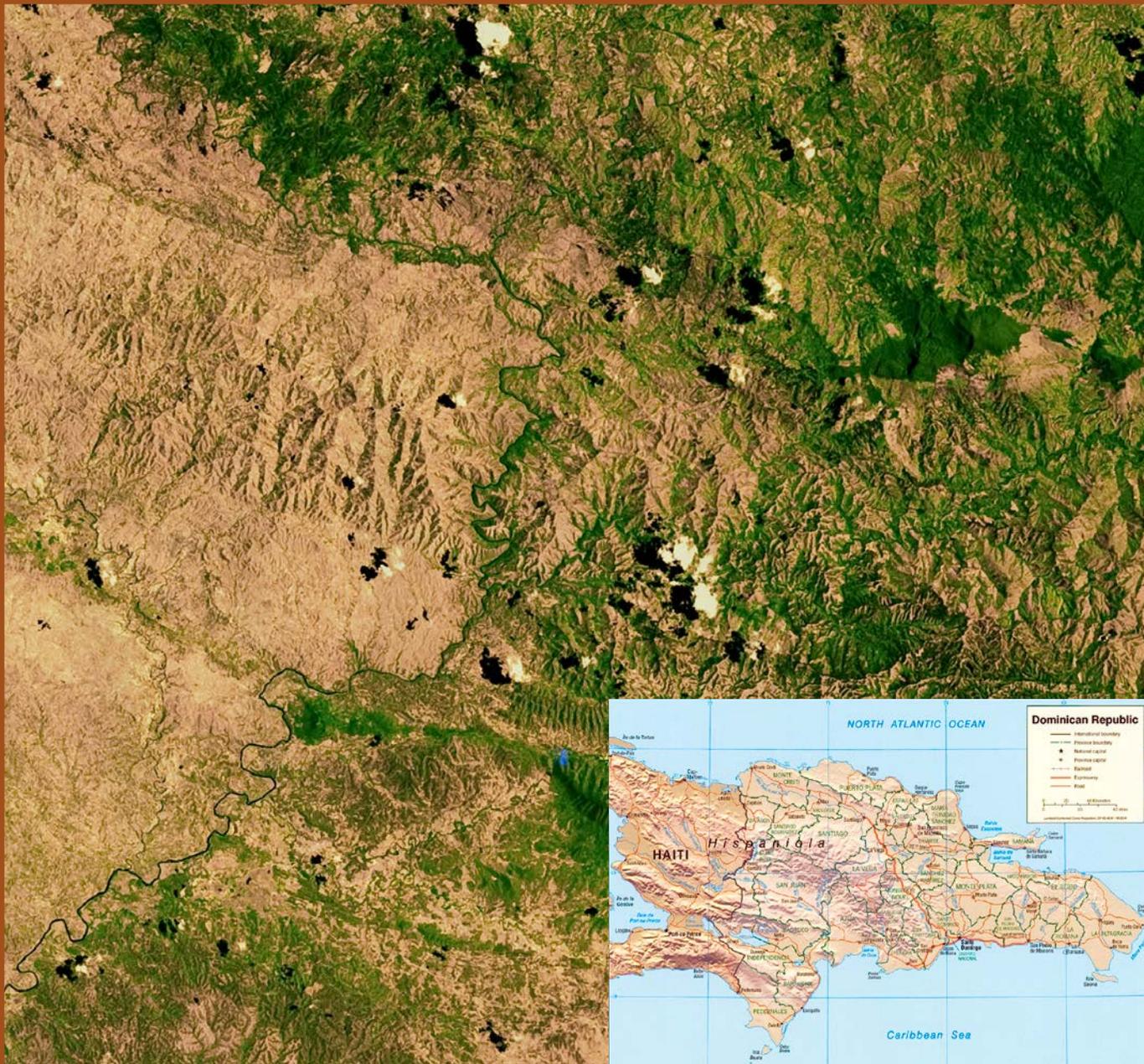
Habitat for plants and animals

Land for development and housing

VA #12 Human Activities in Rainforests



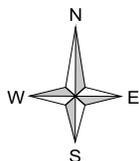
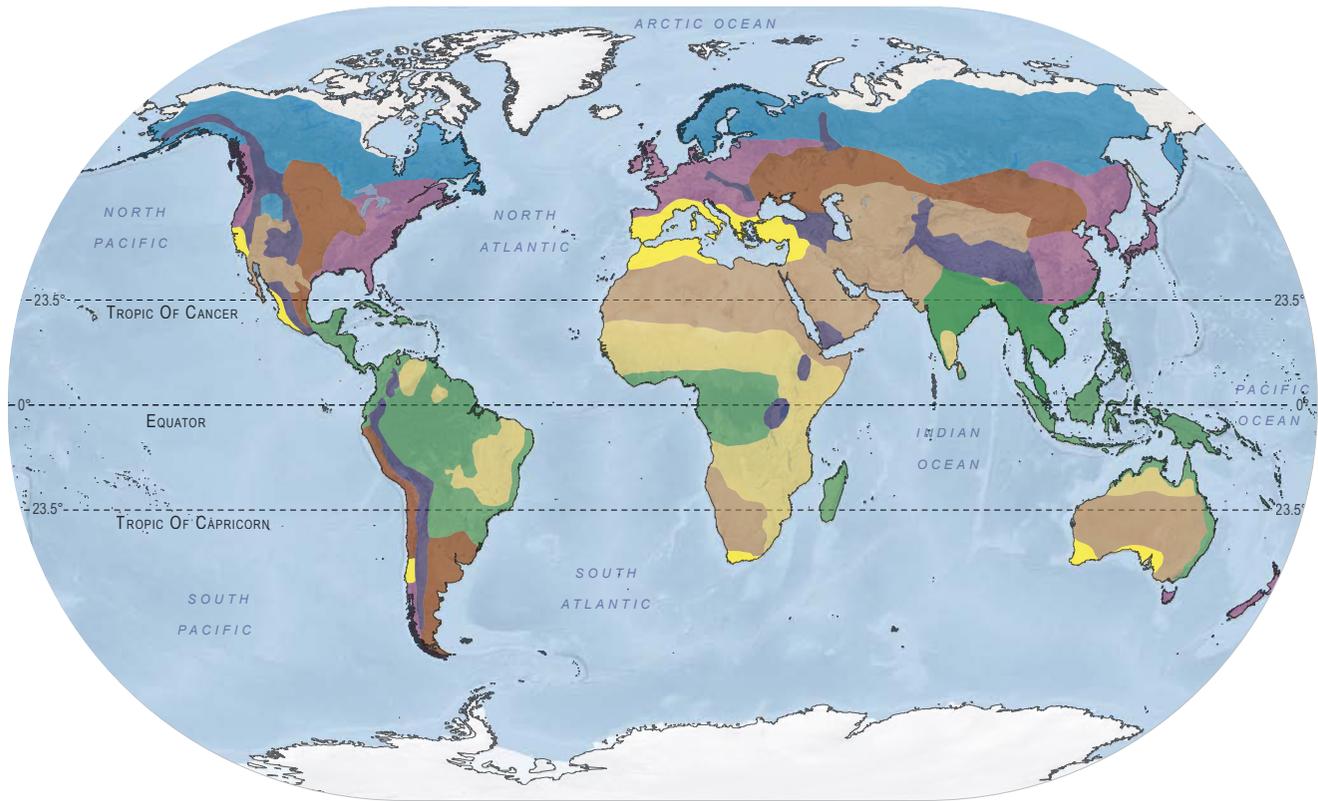
VA #13 Border Between Haiti and Dominican Republic



VA #14 Human Activities in Deserts



VA #15 World Biomes



Desert

Rainforest

Chaparral

Alpine

Taiga

Tundra/Polar

Deciduous Forest

Savanna

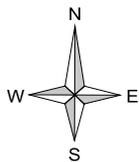
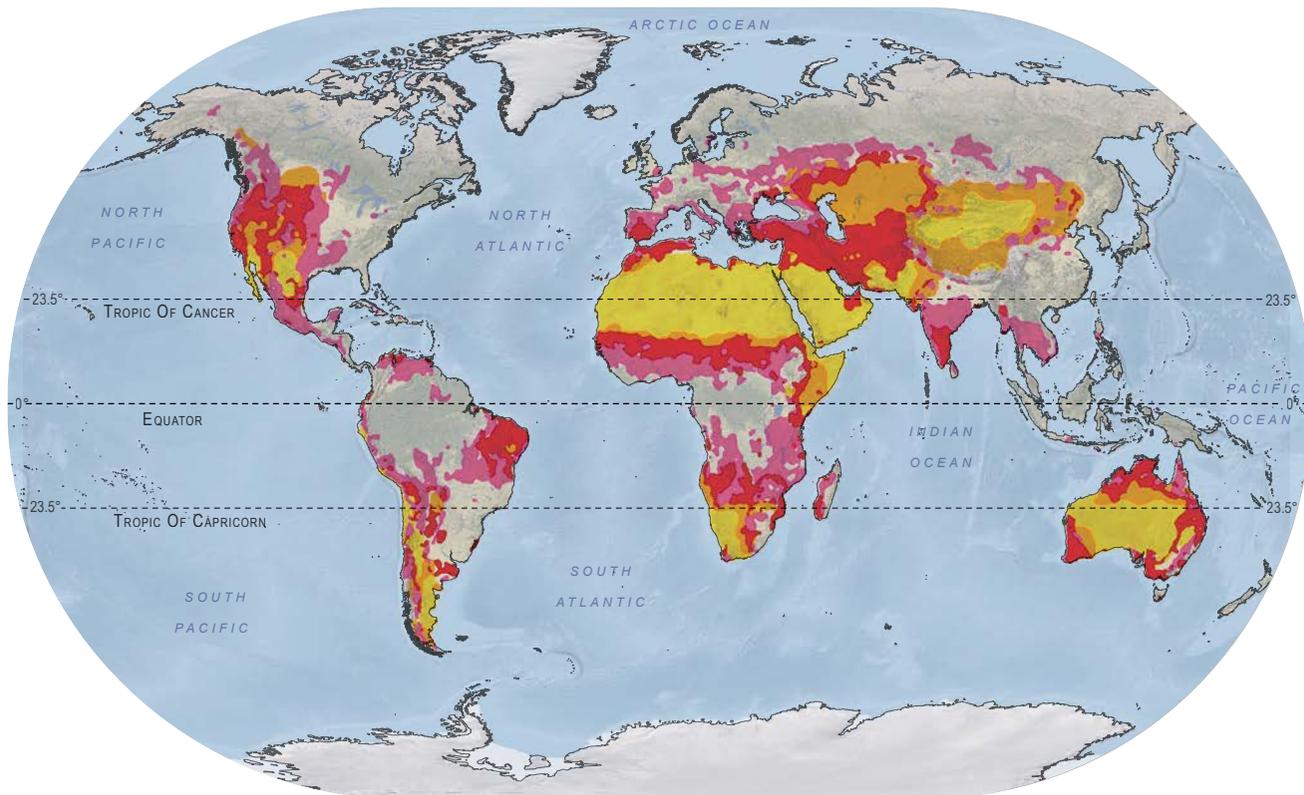
Grassland

0 1,000 2,000 4,000
Miles

VA #16 Ecosystem Recovery



VA #17 Global Desertification Vulnerability Map



0 1,000 2,000 4,000
Miles

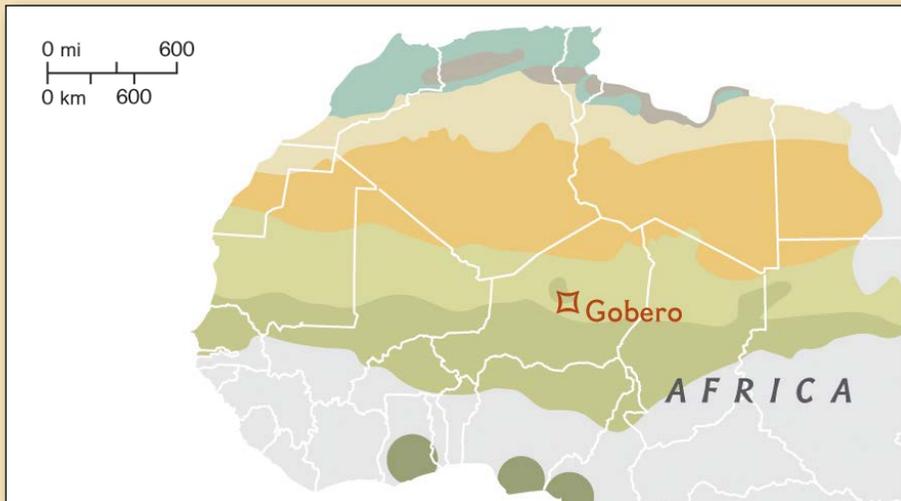
REGIONS

-  Arid
-  Semi-Arid

DESERTIFICATION VULNERABILITY

-  High
-  Moderate

VA #18 Changing Boundaries of the Sahara Desert

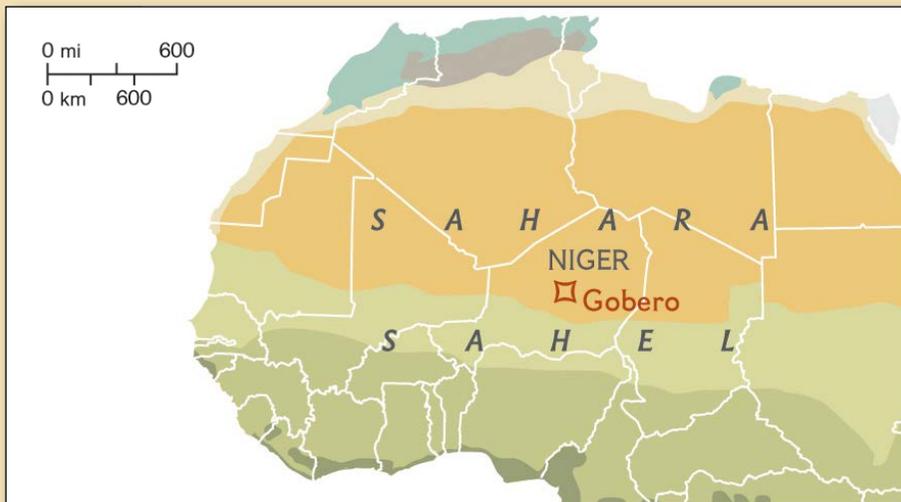


Vegetation

- Forest
- Steppe
- Semidesert
- Desert
- Savanna
- Savanna and forest
- Rain forest
- No data

Sahara 8,000 Years Ago

Gobero – Ancient Burial Site



Sahara Today

Gobero – Ancient Burial Site

VA #19 Artifacts of the Kiffian Culture



fishhook tool



spear tip

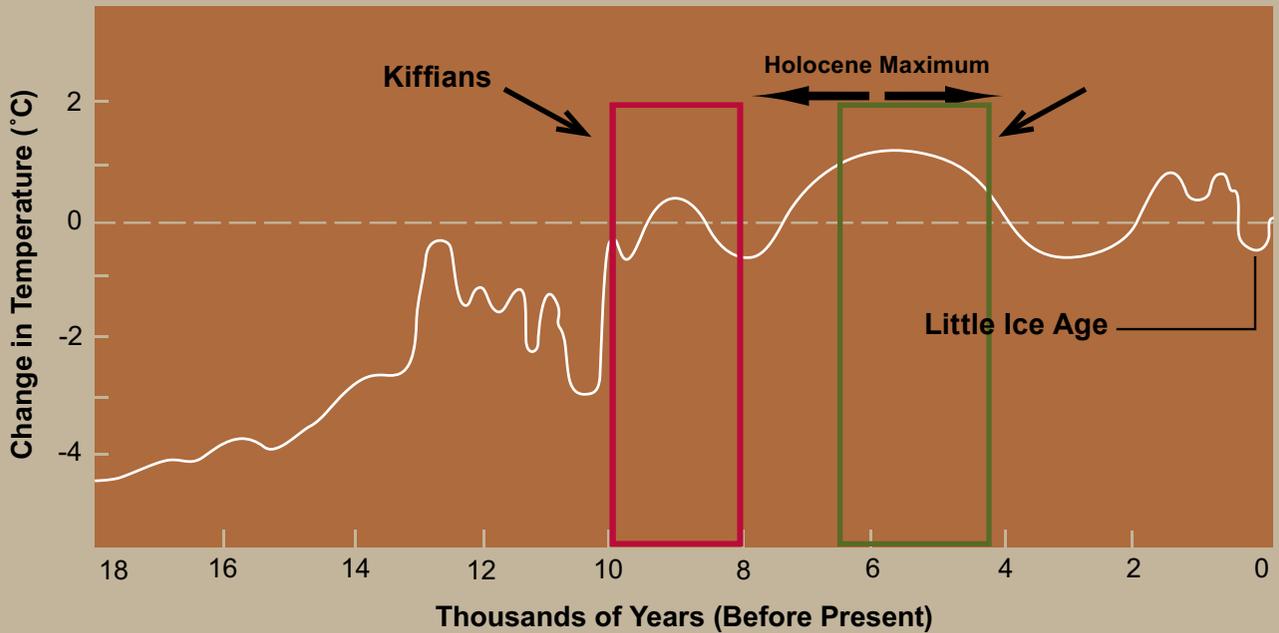


harpoon



harpoon

VA #20 Global Temperature Change



 Kiffian Culture lived in Green Sahara

 Tenerian Culture lived in Green Sahara

VA #21 Artifacts of the Tenerian Culture



arrowhead



tool from
antelope knuckles

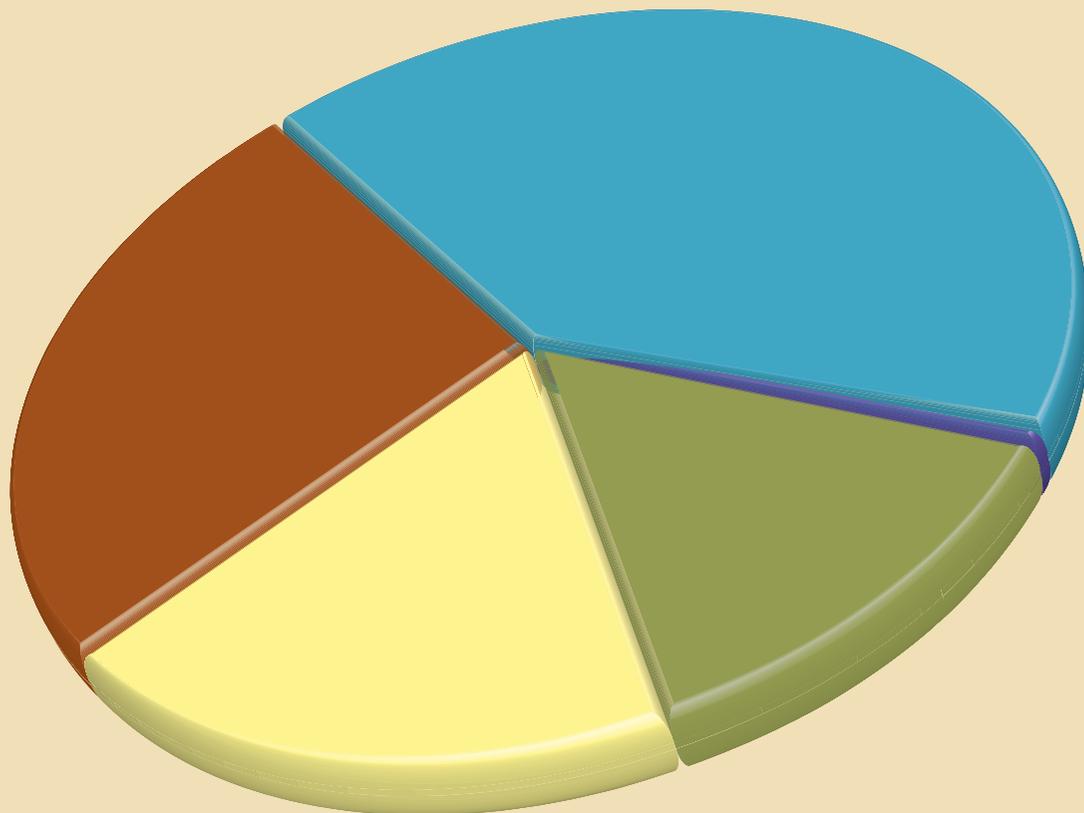


arrowhead

VA #22 Mojave Desert Ecosystem



VA #23 Who Manages California's Mojave Desert Lands?



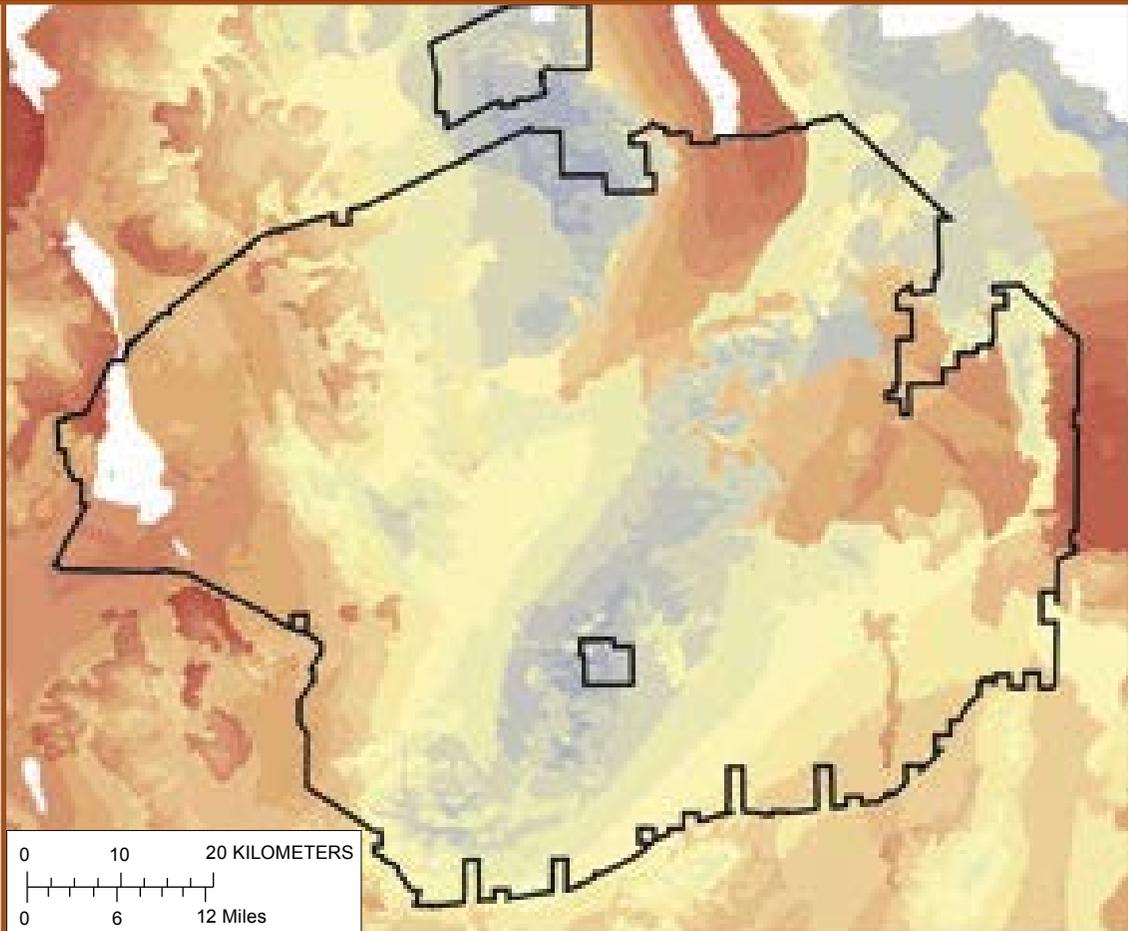
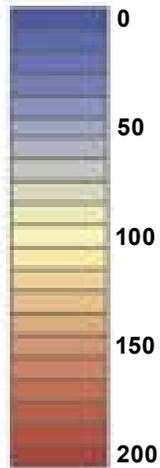
-  Bureau of Land Management
-  National Park Service
-  Private Landowners/Municipalities
-  Department of Defense
-  State Parks/Fish and Game

VA #24 Desert Crusts



VA #25 Spatial Map for Soil Compaction Recovery

YEARS



Geospatial map of the USGS Recoverability and Vulnerability of Desert Ecosystems (RVDE) study site in the Mojave Desert shows the time necessary to recover from soil compaction.

Source: Used with permission of the U.S. Geological Survey.