

A view of Earth from space, showing the blue oceans, green continents, and white clouds. A bright yellow star is visible in the dark background of space to the right of the Earth.

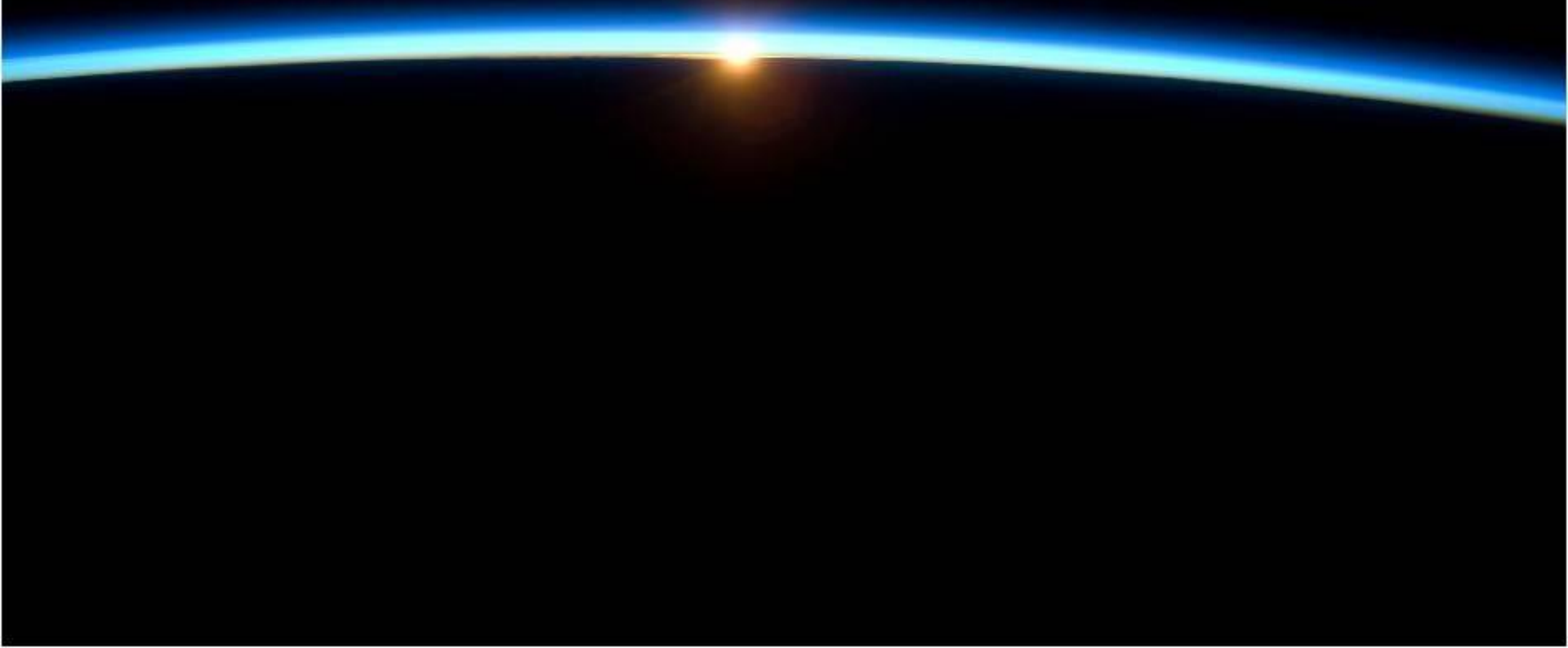
CONCEPTOS GENERALES DE CIRCULACIÓN ATMOSFÉRICA

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CeNAT

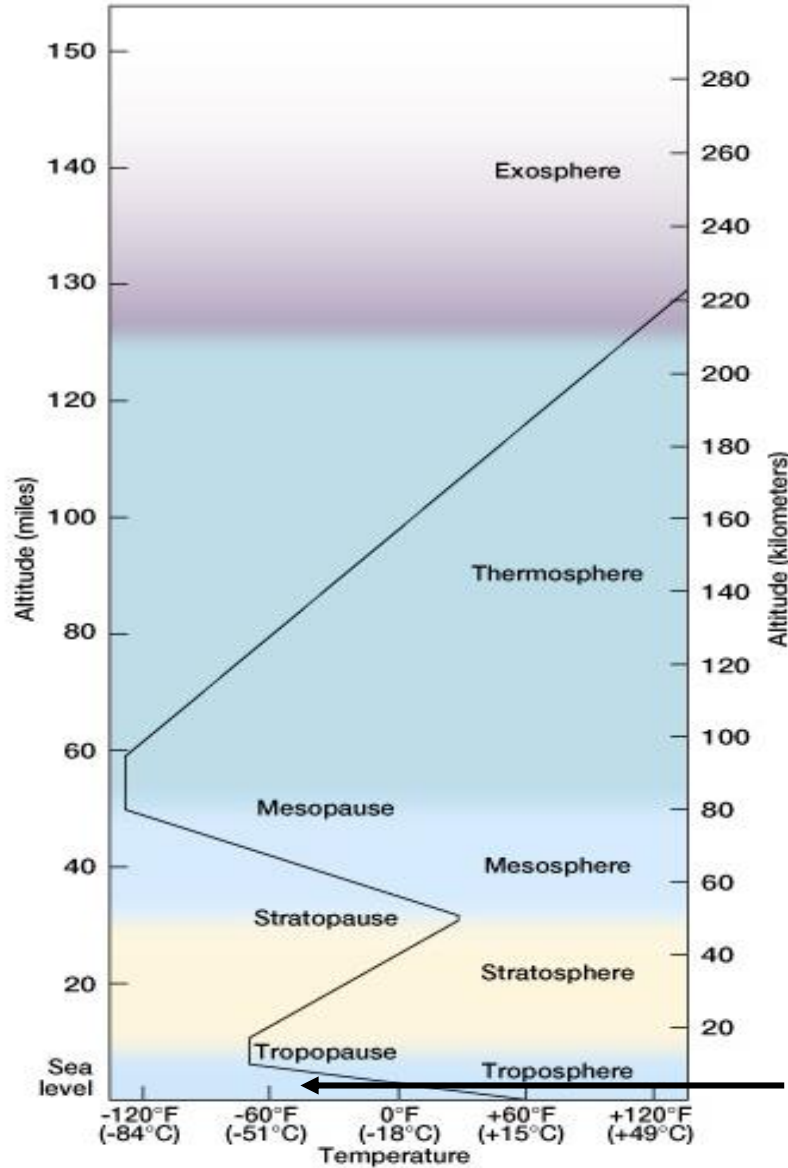
katchan@cenat.ac.cr

Estructura Vertical de la Atmósfera

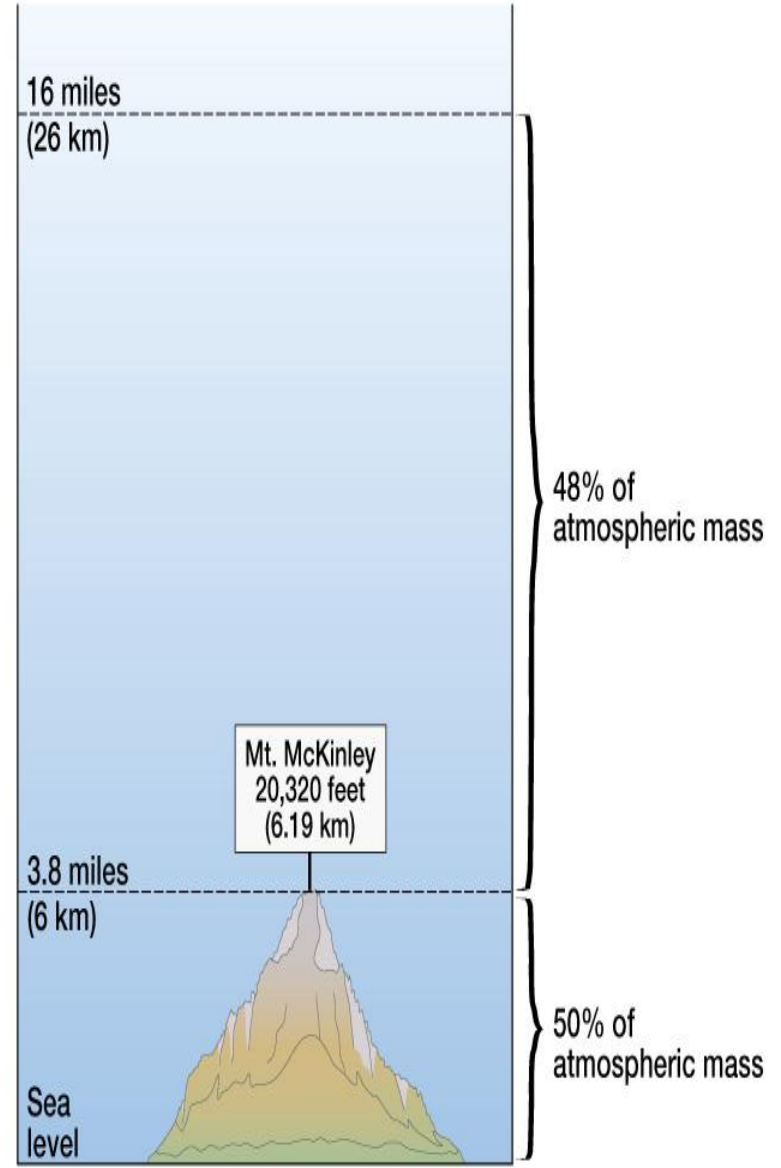
- Temperatura
- Presión
- Composición



Estructura Vertical de la Atmósfera



A.

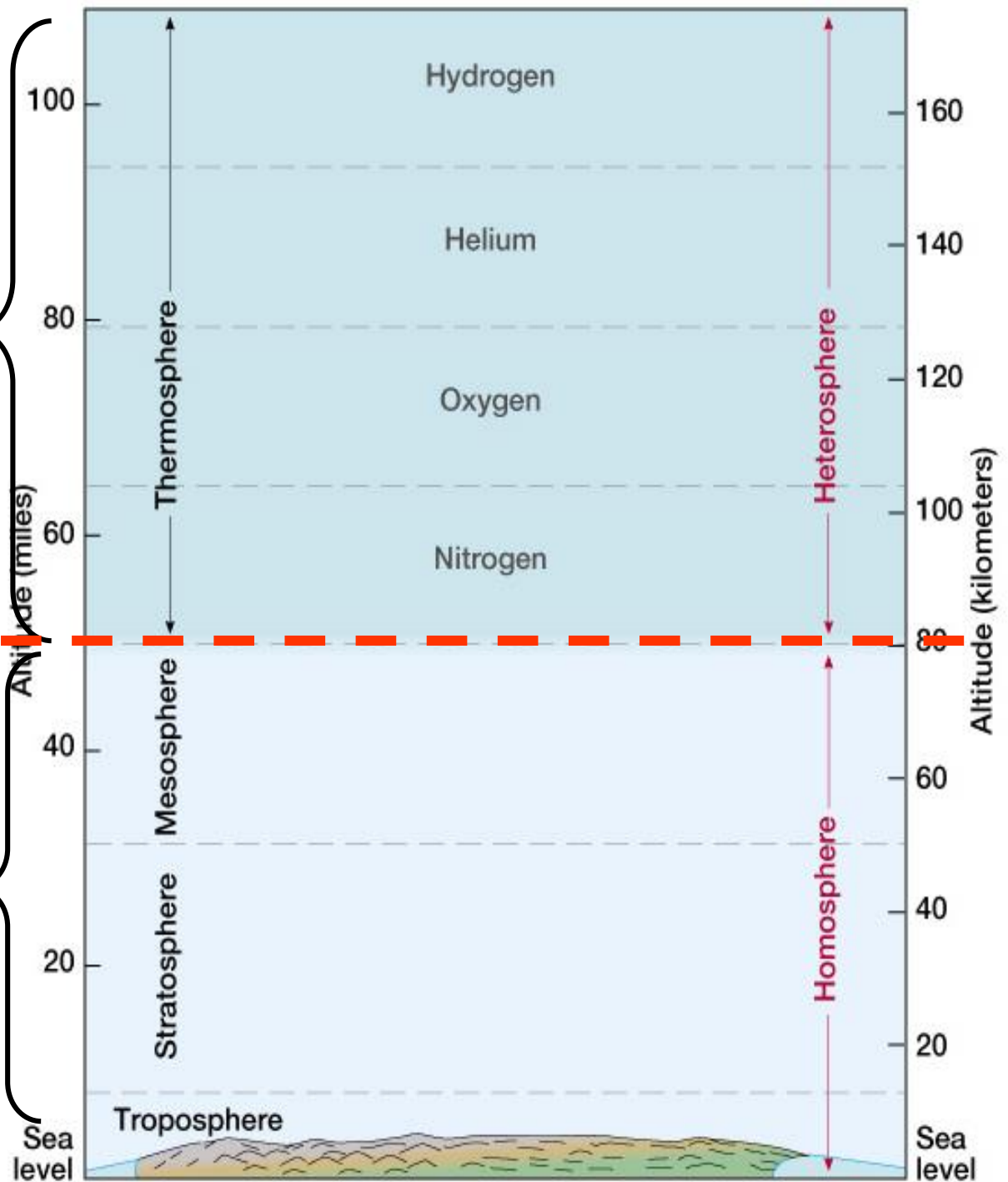


B.

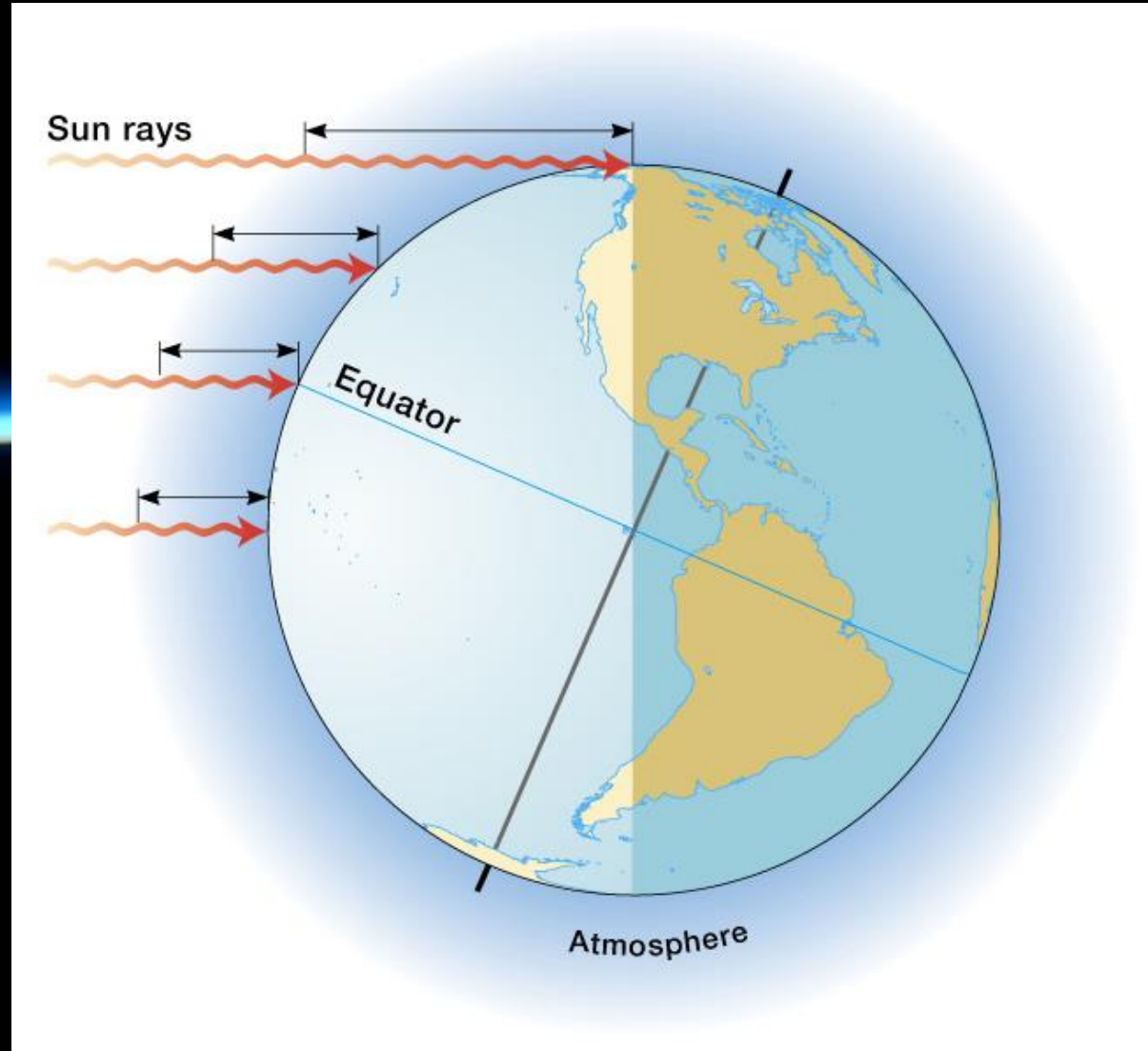
Composición Atmosférica

Not mixed = layered

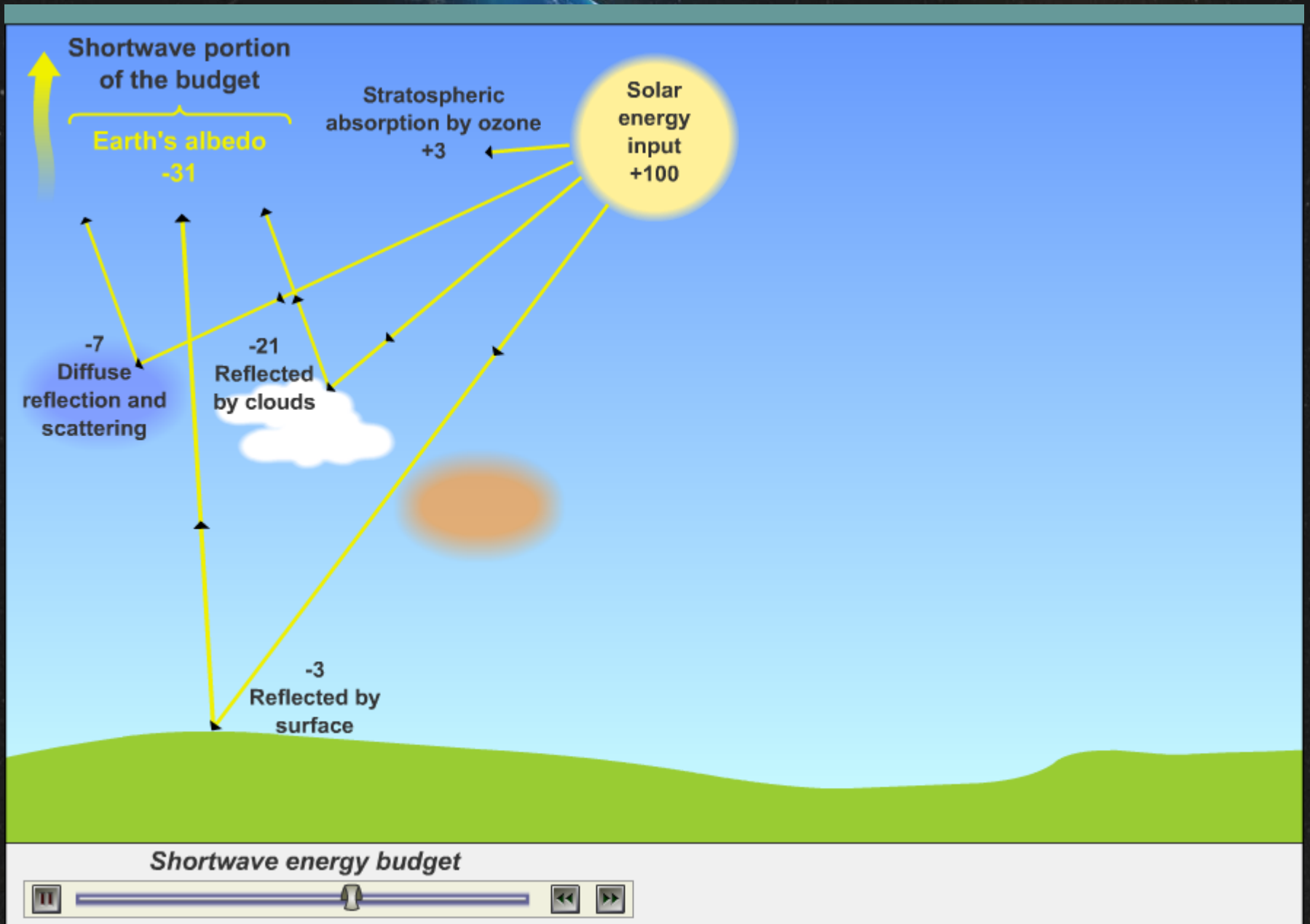
Good mix = uniform distribution



Obstrucción Atmosférica



Balance Térmico



Elementos & Controles

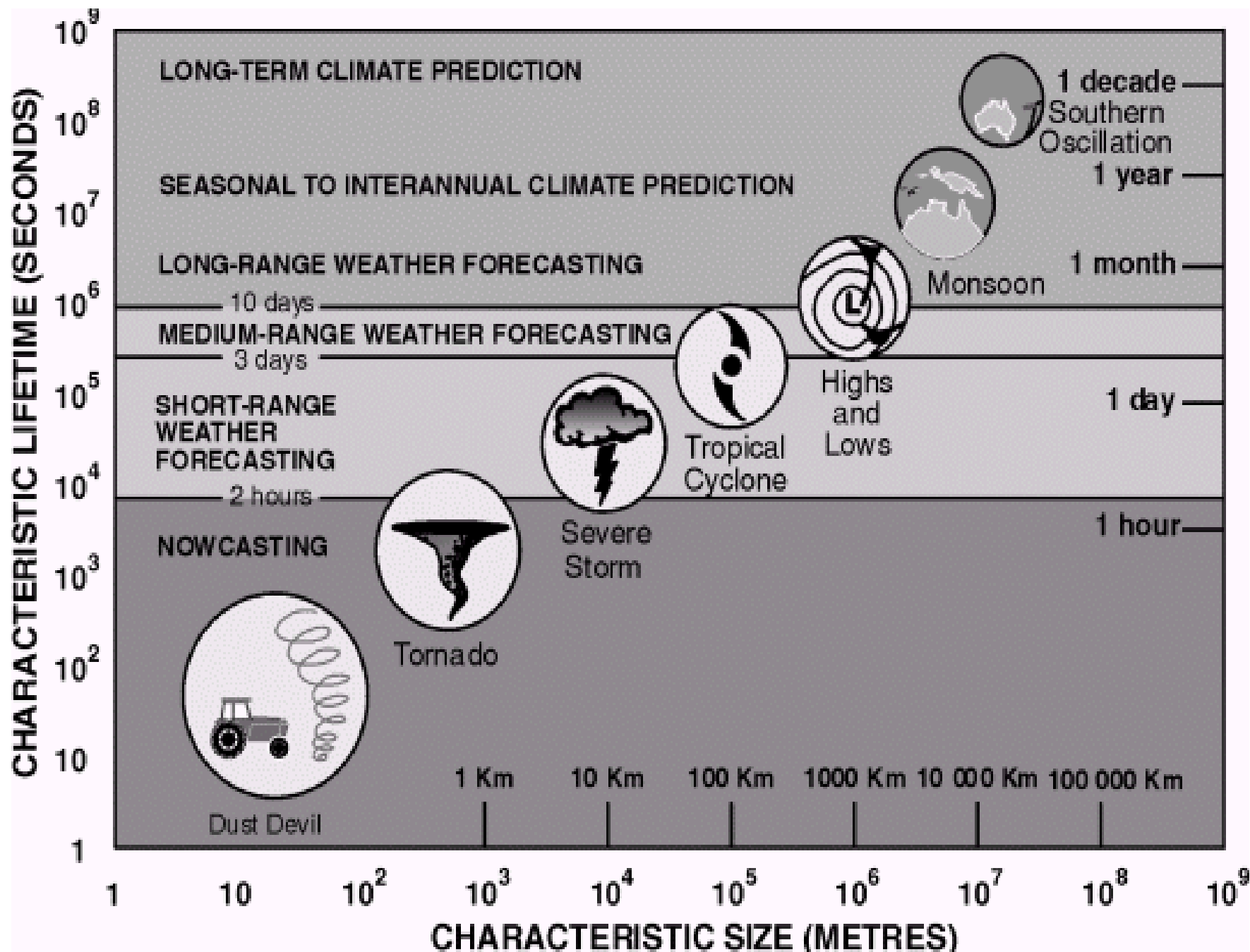


ELEMENTOS

- Temperatura
- Presión
- Viento
- Humedad
- Radiación

CONTROLES

- Latitud
- Distribución de tierra y agua
- Circulación General de la atmosfera
- General circulación de oceanos
- Elevación
- Barreras Topograficas
- Tormentas



Circulación General de la Atmósfera

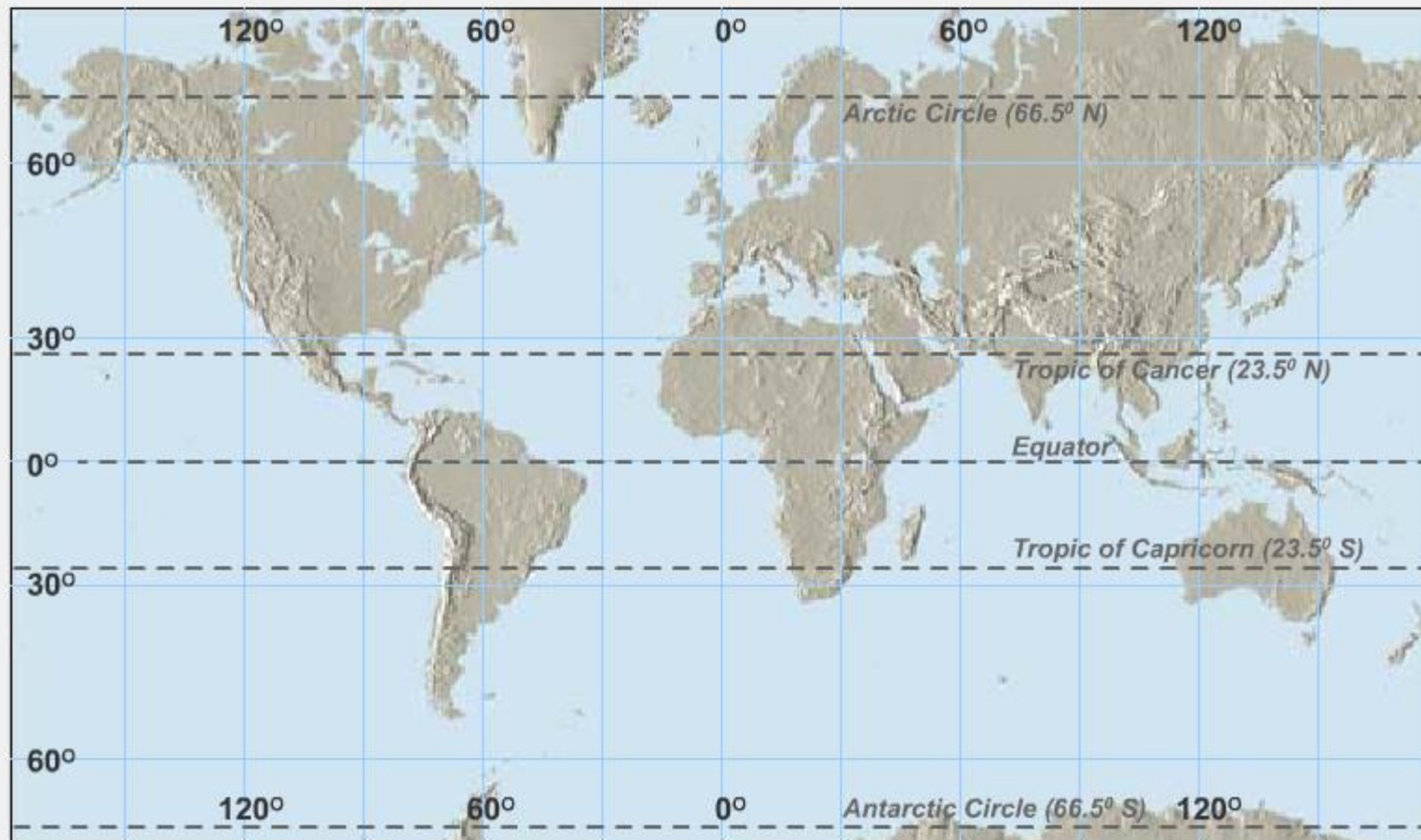
A photograph of Earth from space, showing the Americas and the sun in the background. The Earth is partially illuminated, with the sun visible as a bright yellow star in the upper right quadrant. The background is a dark, starry space.

- Celdas Hadley
- Componentes de Circulación General
- Jet Streams

Circulación General de la Atmósfera



Patrones Estacionales de Presión y Precipitación



Labels Off

Show Hadley
Cells Profile

Show
ITCZ

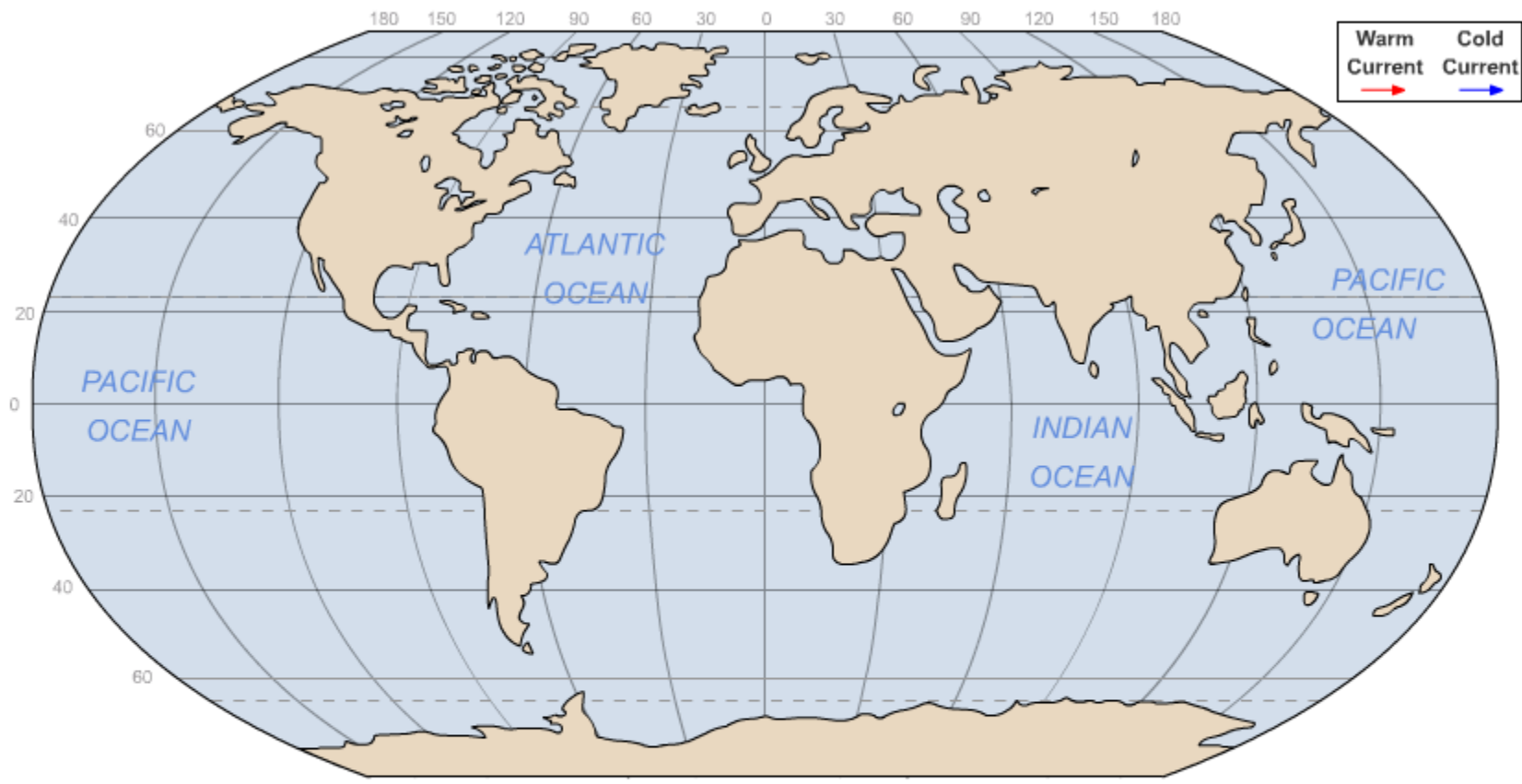
Show
Pressure

Show
Precipitation



Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec.

Circulación General del Océano



Show Subtropical Gyres Labels

Show Equatorial Currents Labels

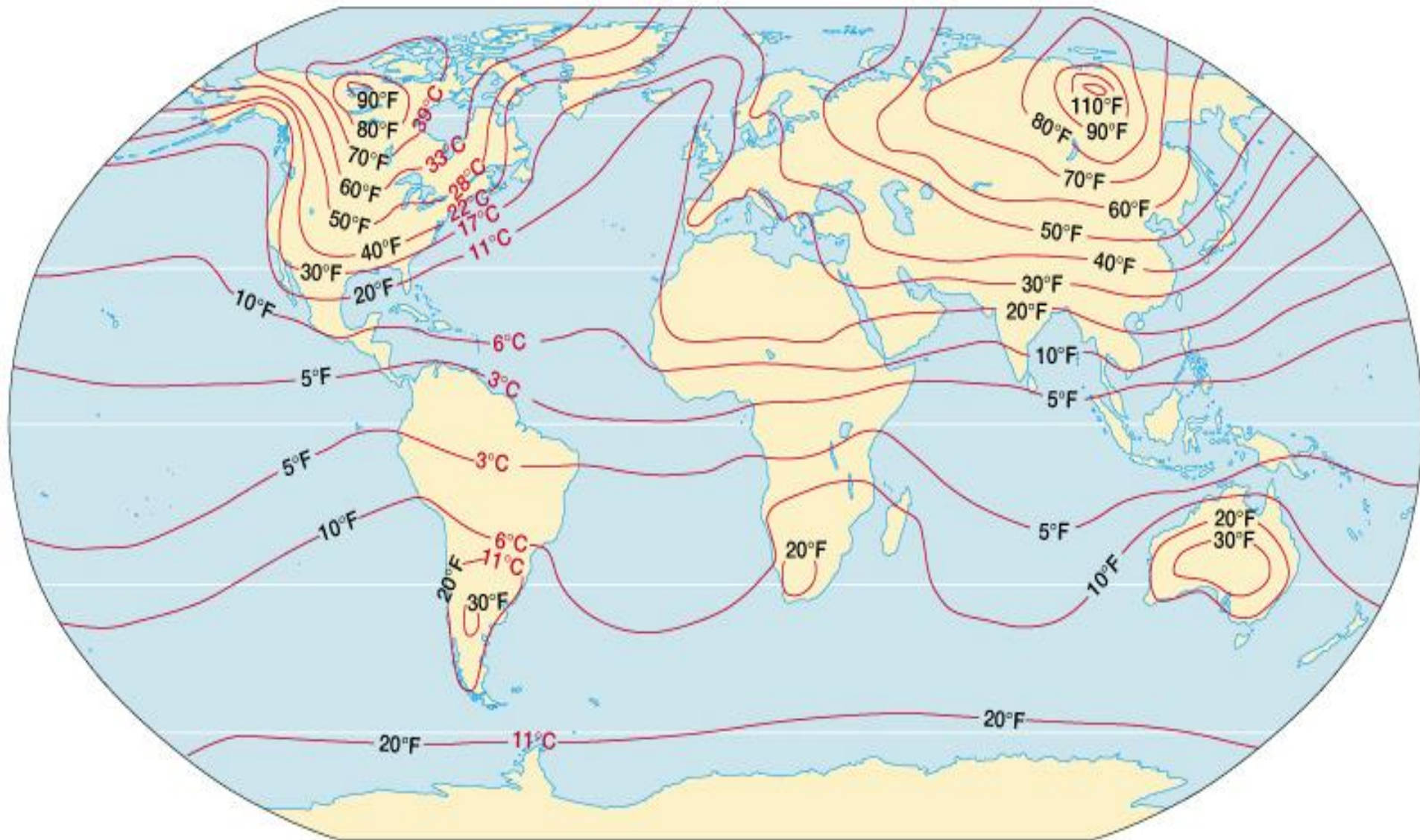
Show High Latitude Currents Labels

Show Wind Belts Labels

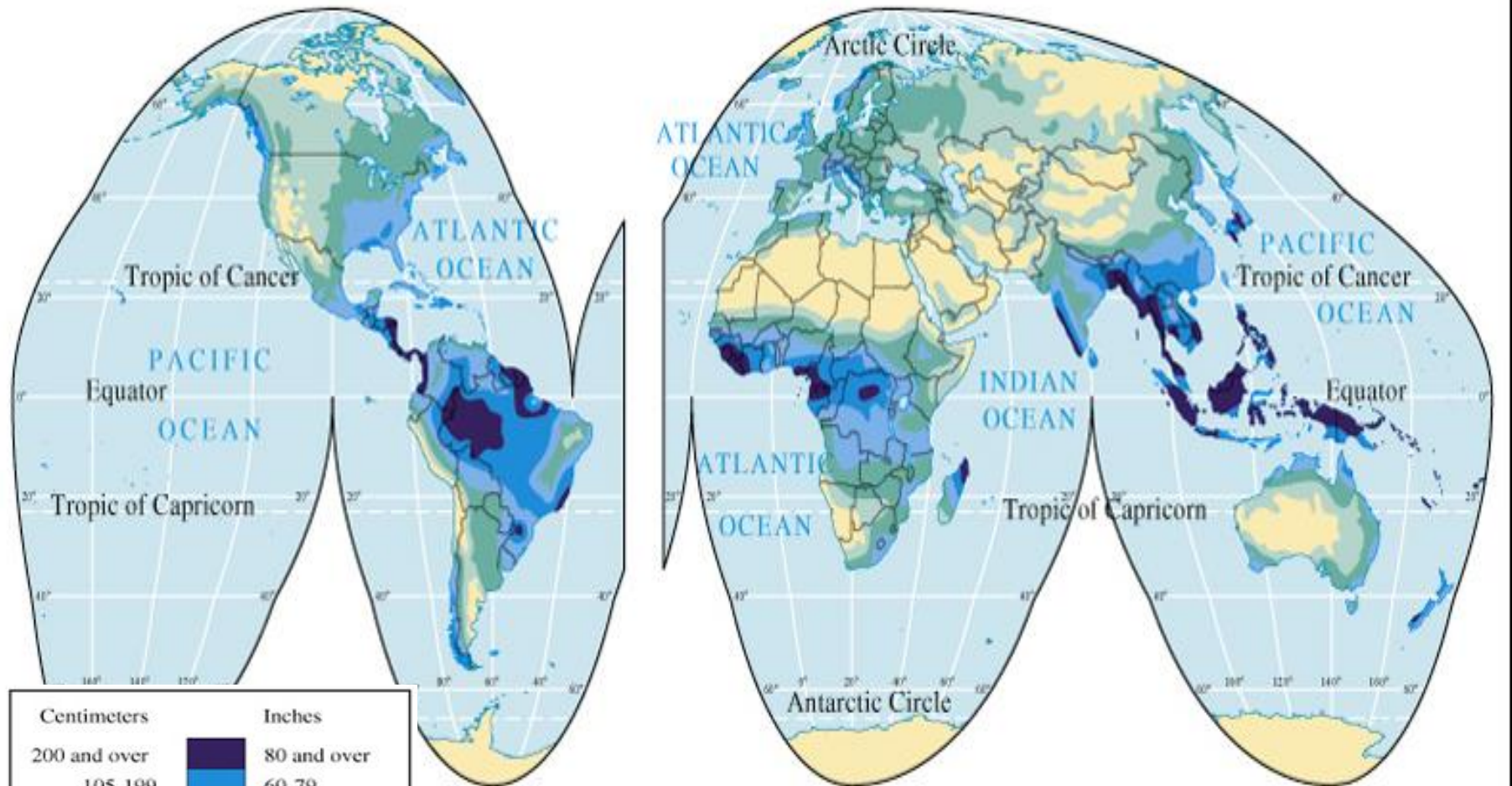
Show Deep-Ocean Circulation Labels

the currents shown are for February-March

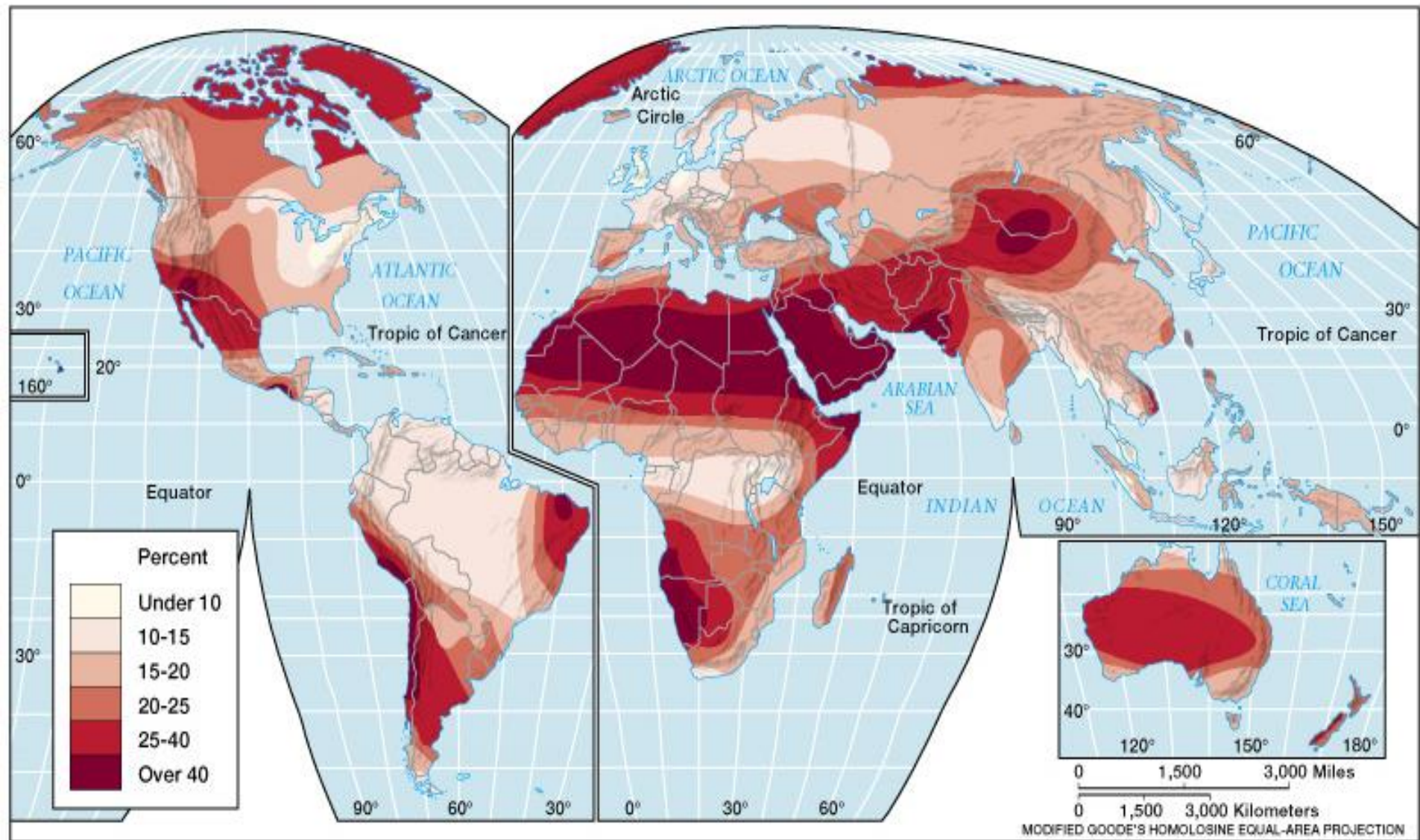
Rango de Variación de Temperatura Promedia Anual Global



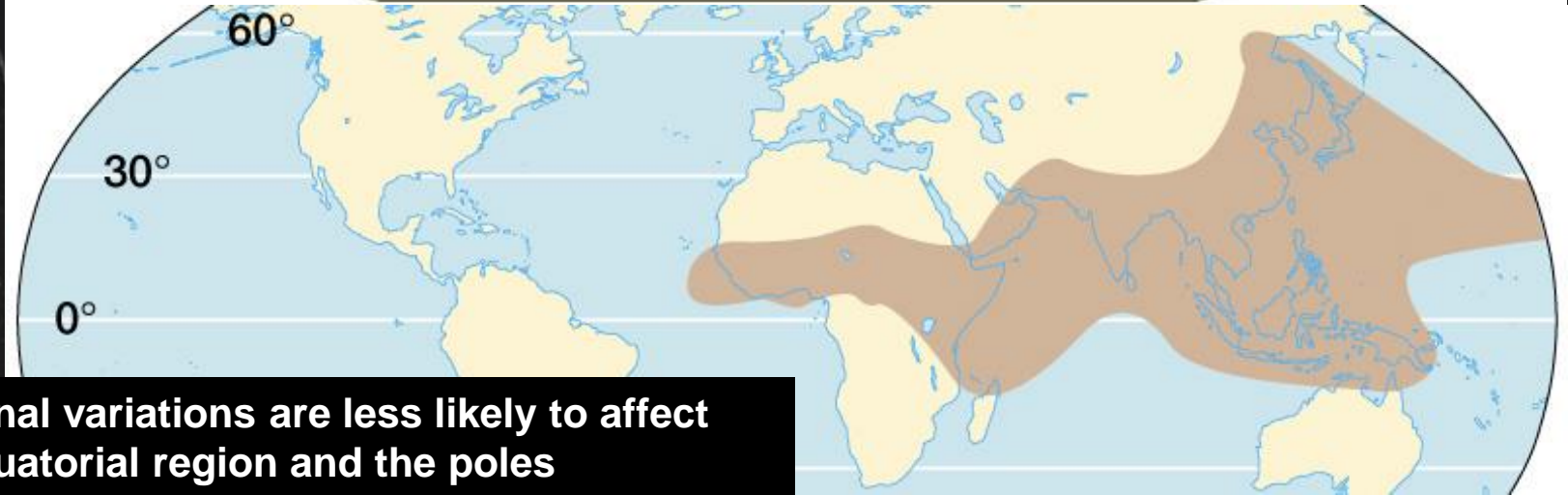
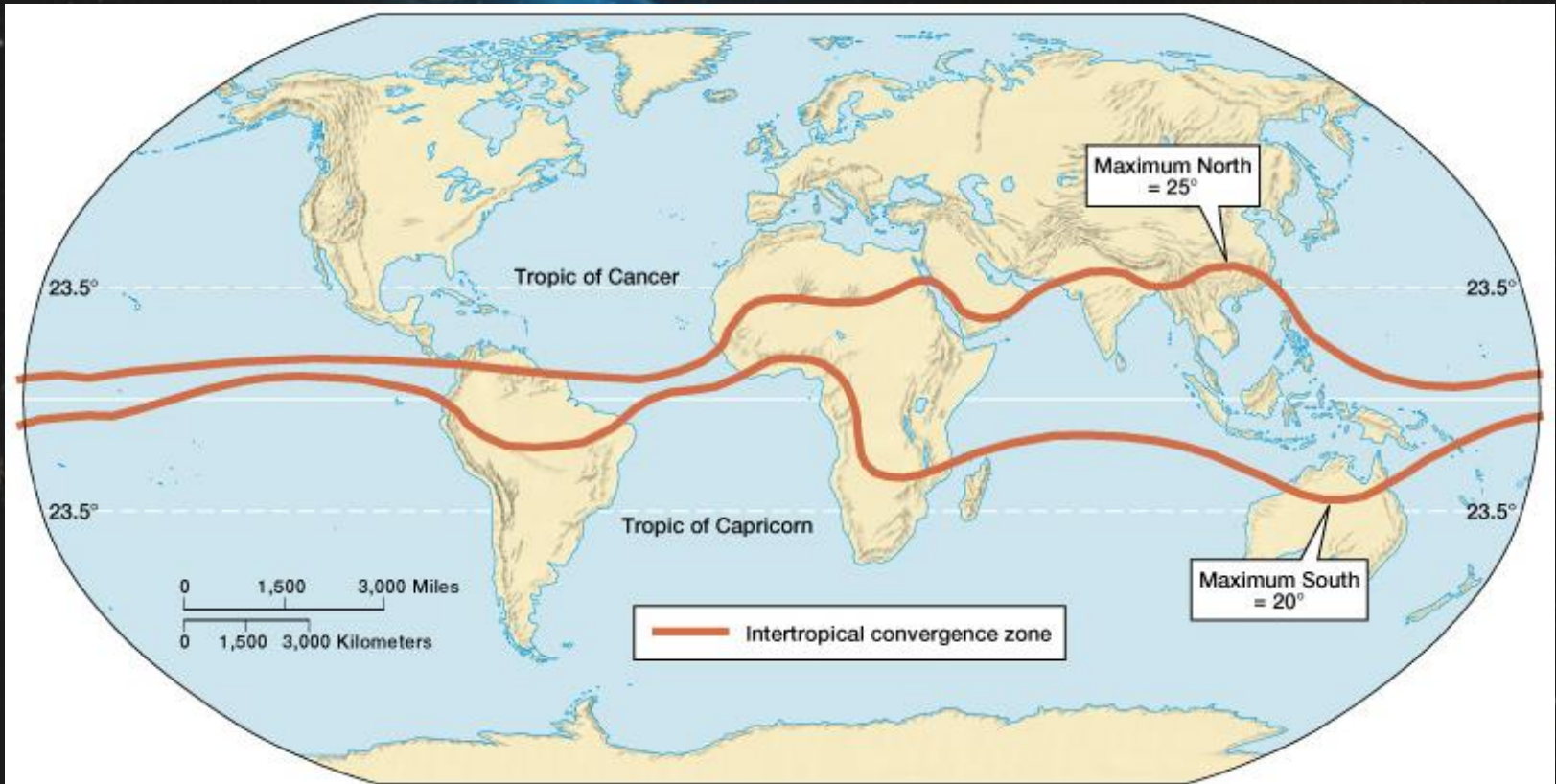
Promedio de Precipitación Anual Global



Variación de Precipitación Global

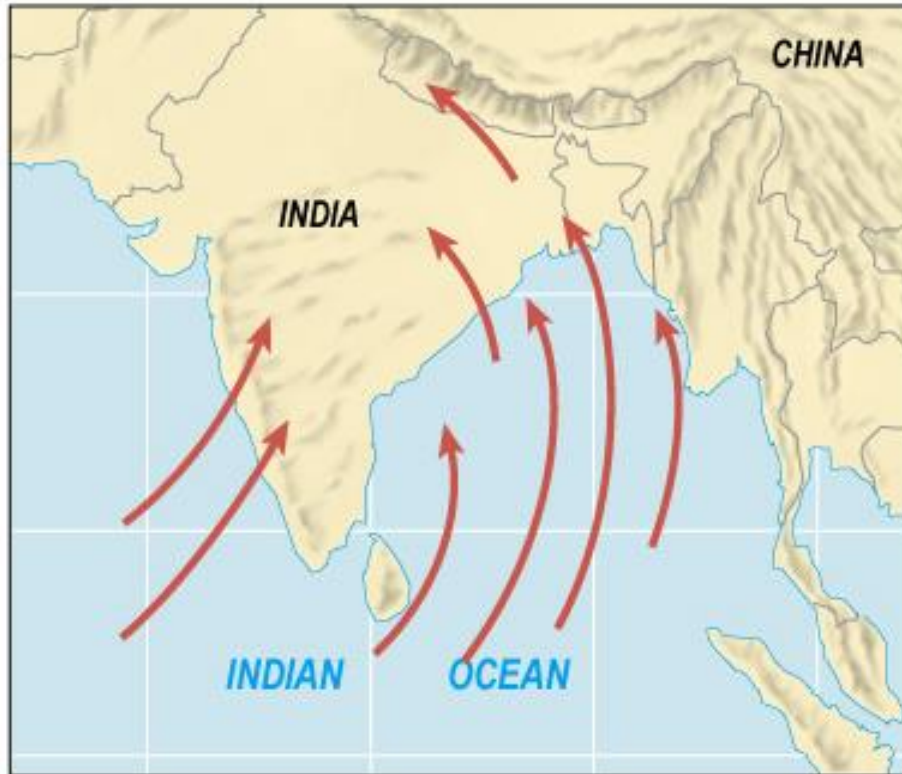


Variación Estacional Latitudinal - Monsoons



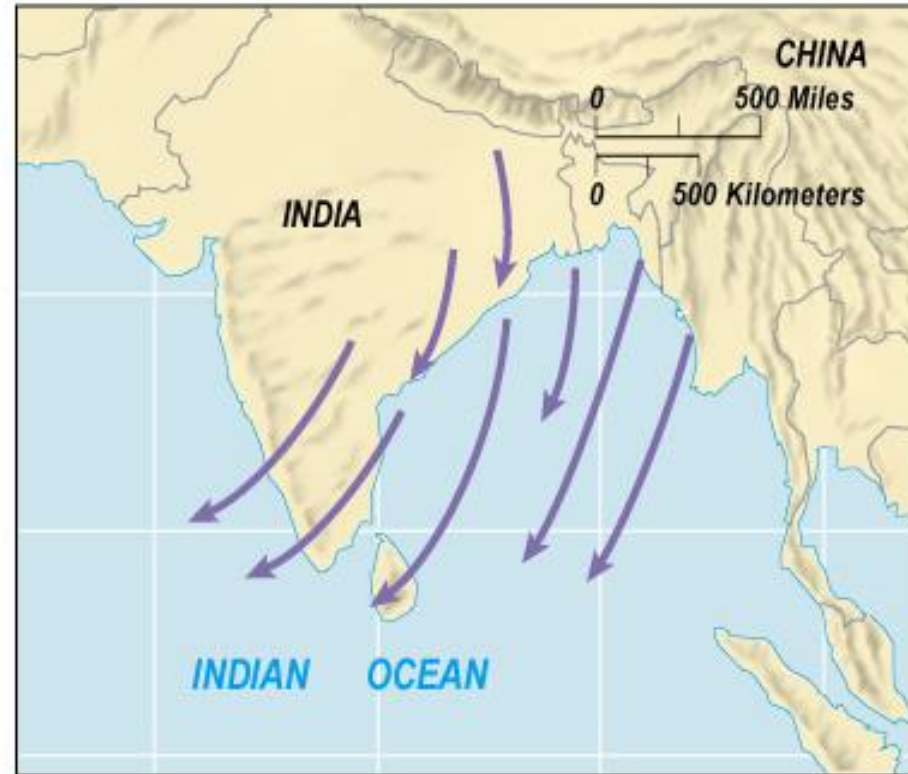
Seasonal variations are less likely to affect the equatorial region and the poles

Monsoon del Sur de Asia



(a)

Summer



Winter