

BIE - 312 ECOLOGIA VEGETAL

O que é Ecologia Vegetal?

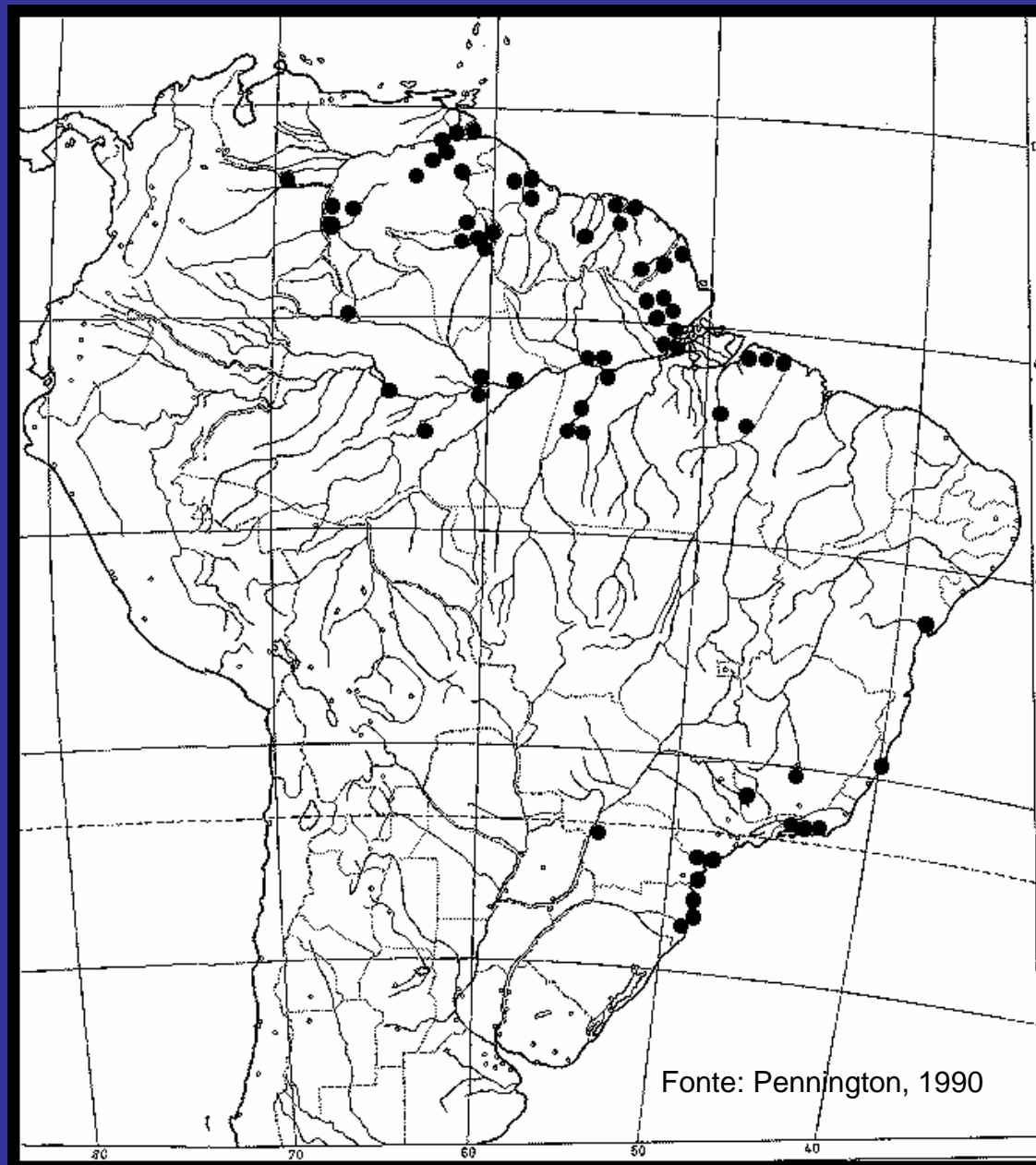
Estudo da distribuição e abundância dos vegetais e os fatores associados (determinantes bióticos e abióticos)

Distribution Pattern

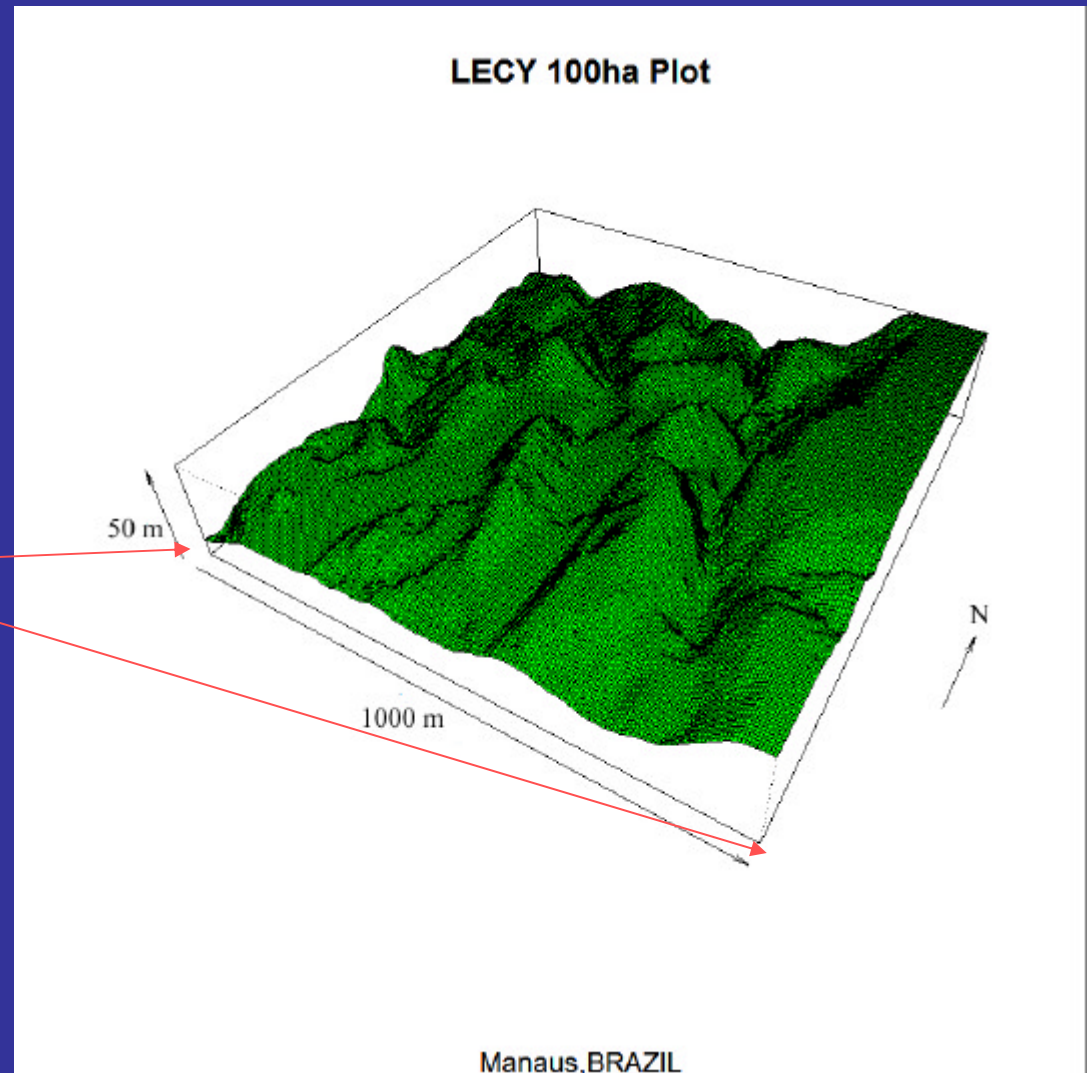
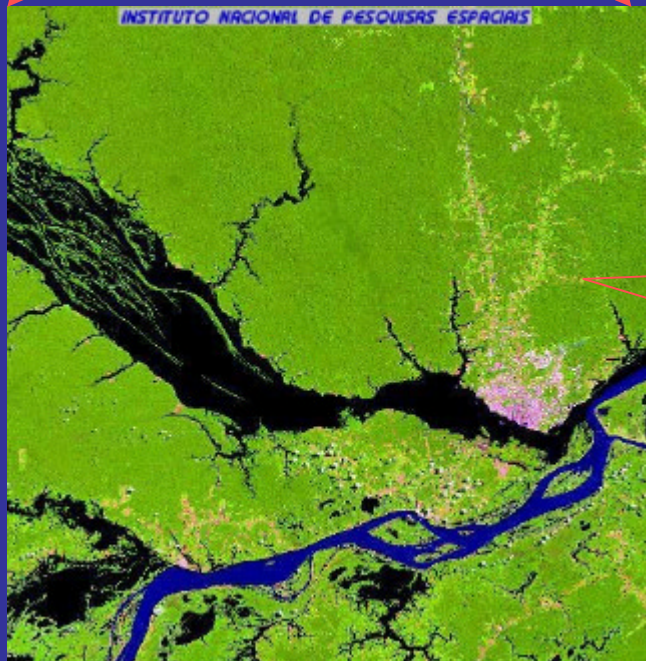
Pouteria venosa
(Mart.) Baehni

SAPOTACEAE

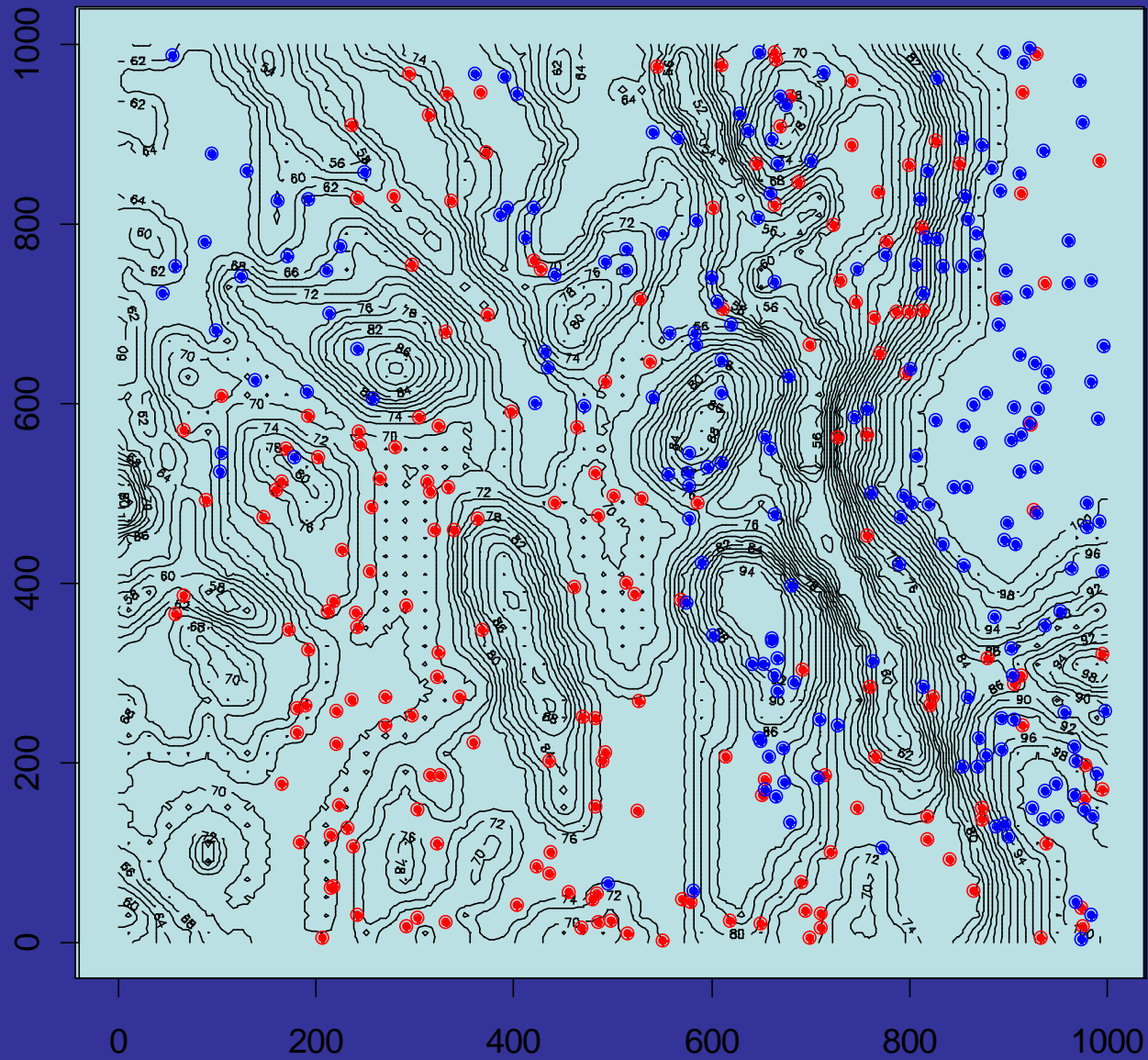
Disjunct distribution
between Atlantic and
Amazon Forests



Floresta de terra firme Amazônia Central

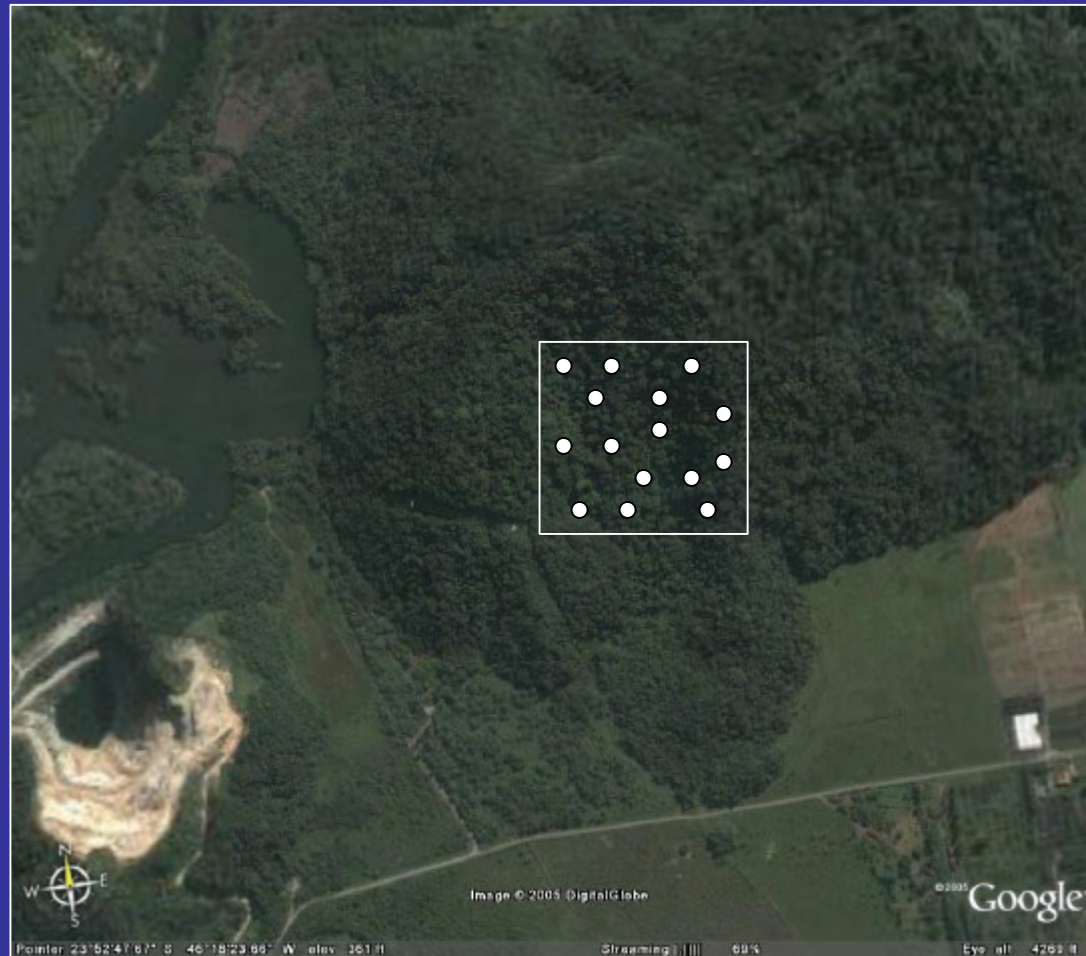


Lecythidaceae 100ha plot - Manaus

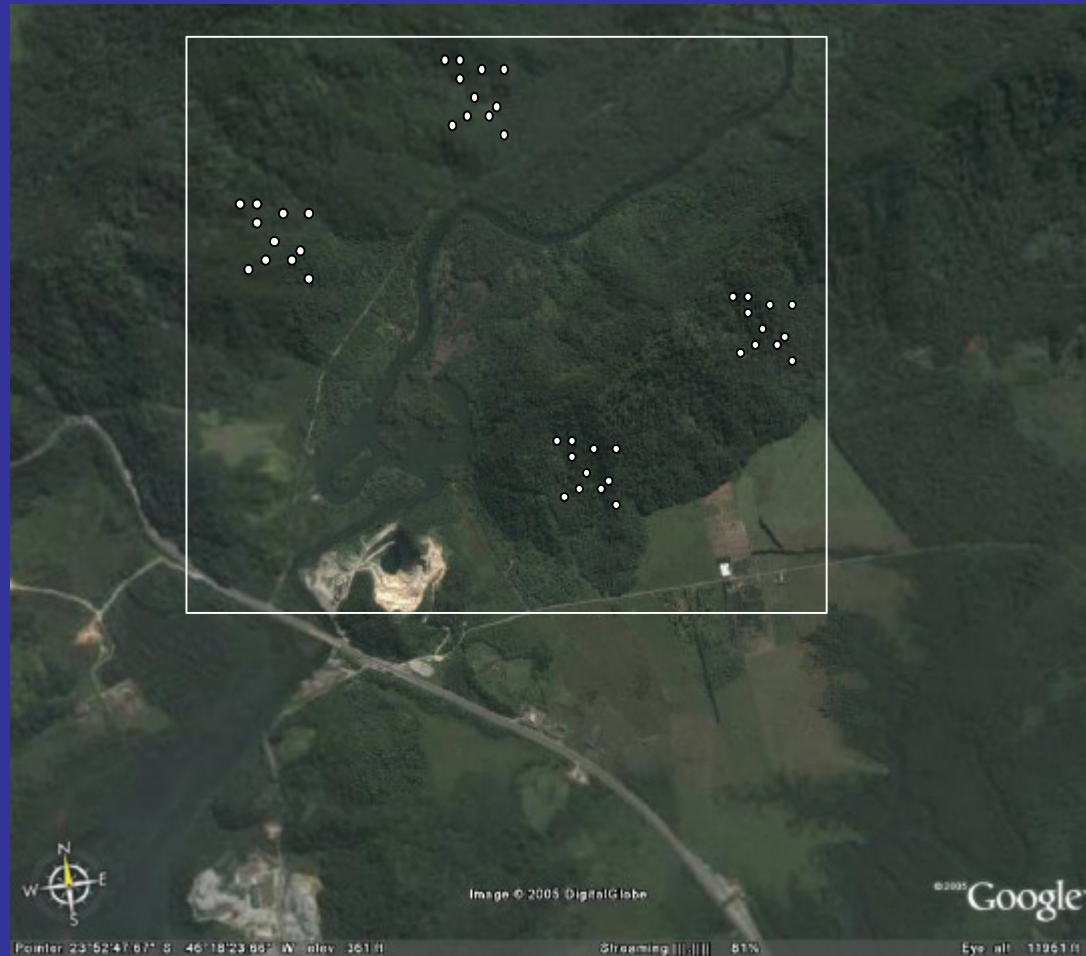


Corythophora alta (red), *Corythophora rimosa* (blue)

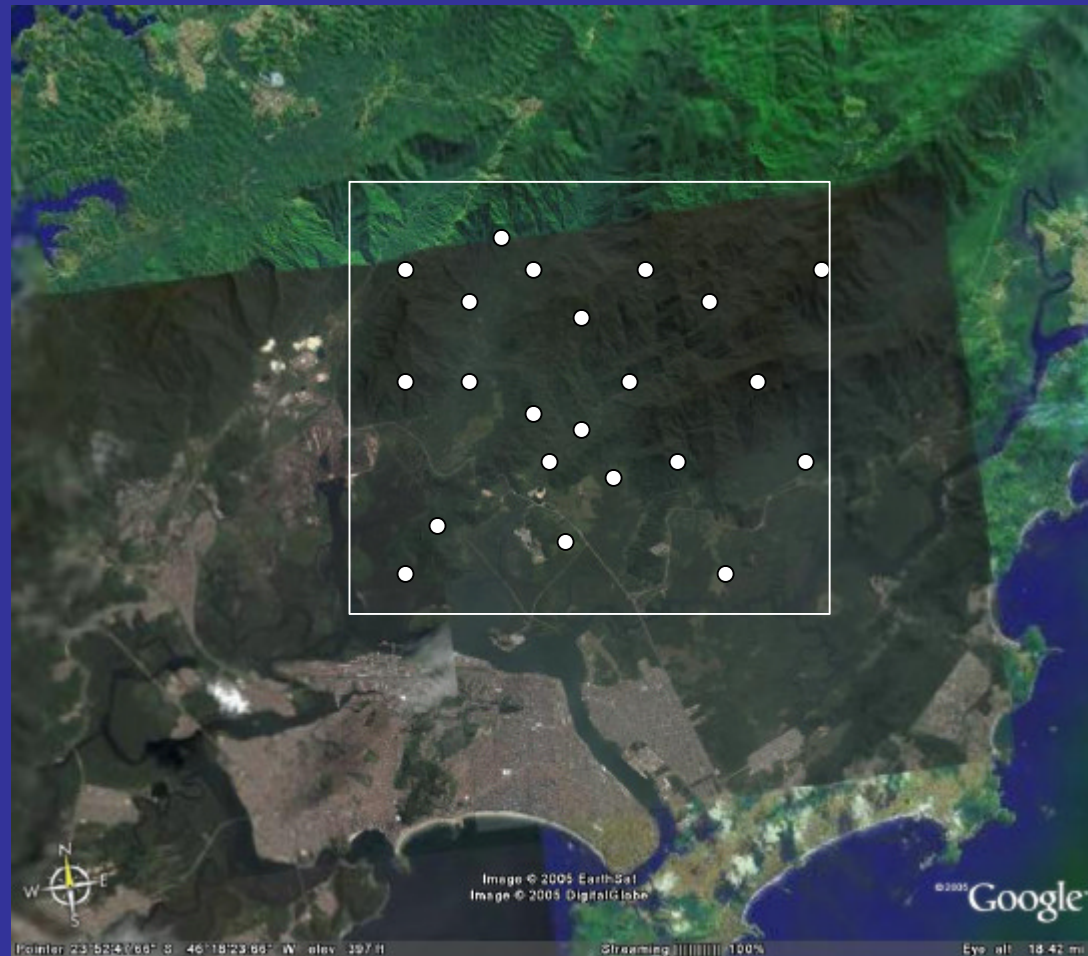
Fragmento Florestal - Santos



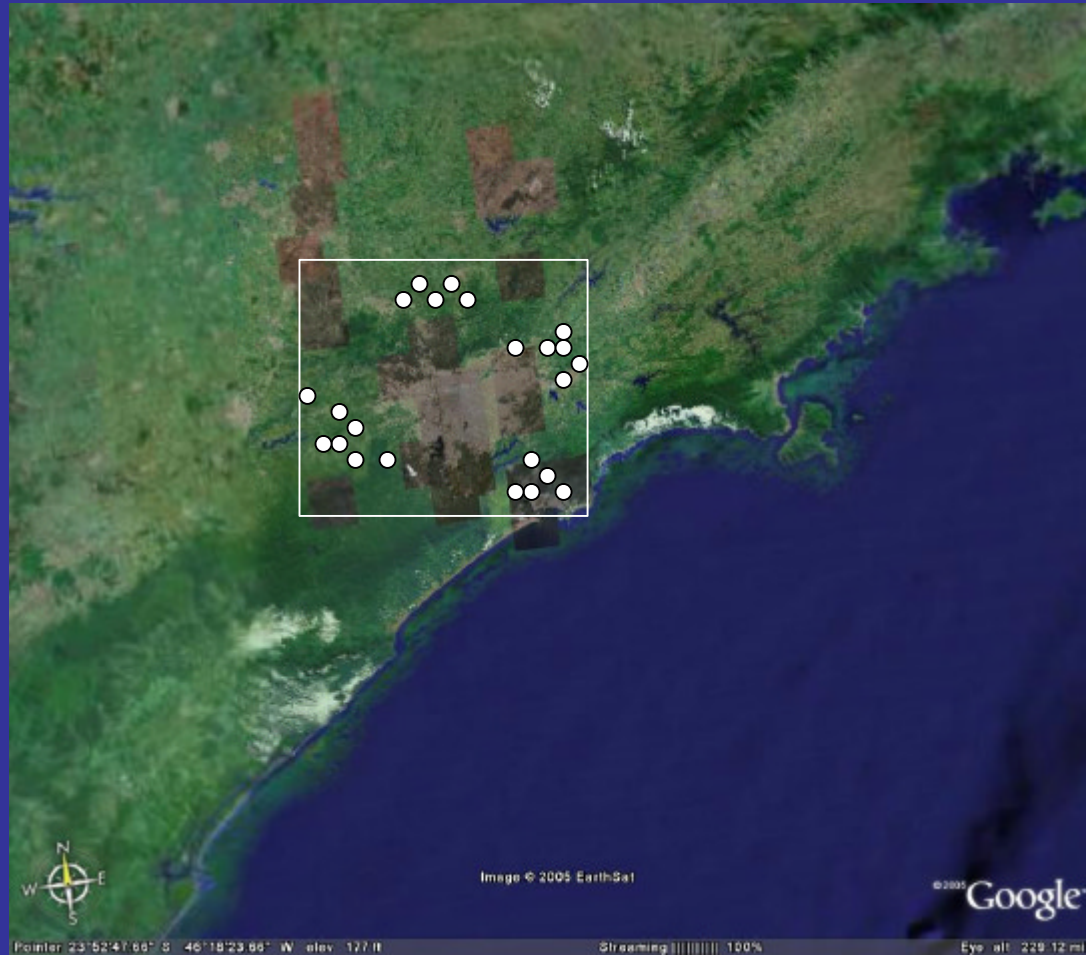
Paisagem na Baixada Santista



Baixada Santista



Região São Paulo -Santos



Estado de São Paulo



América do Sul



Manguezal

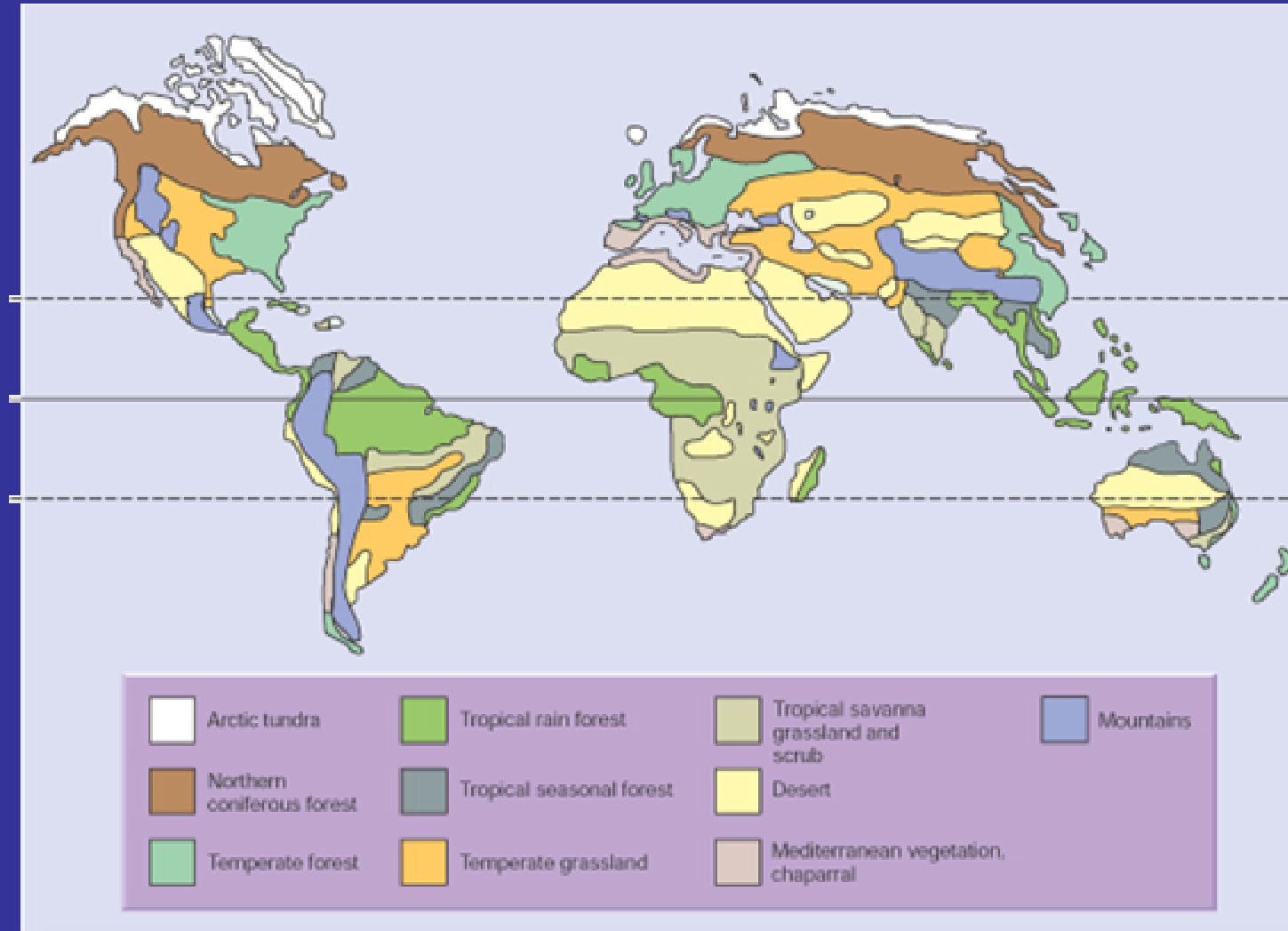






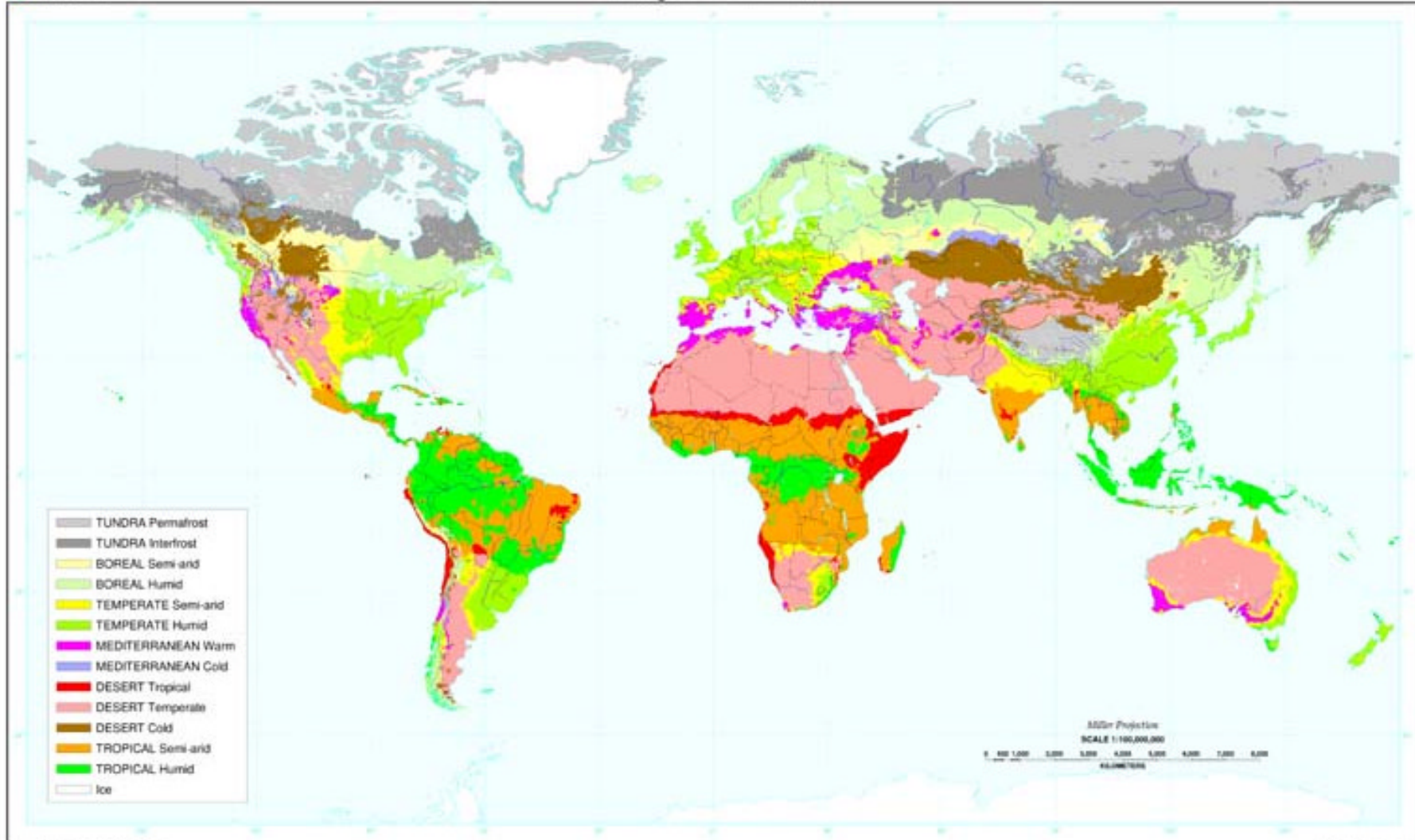


Escala Global

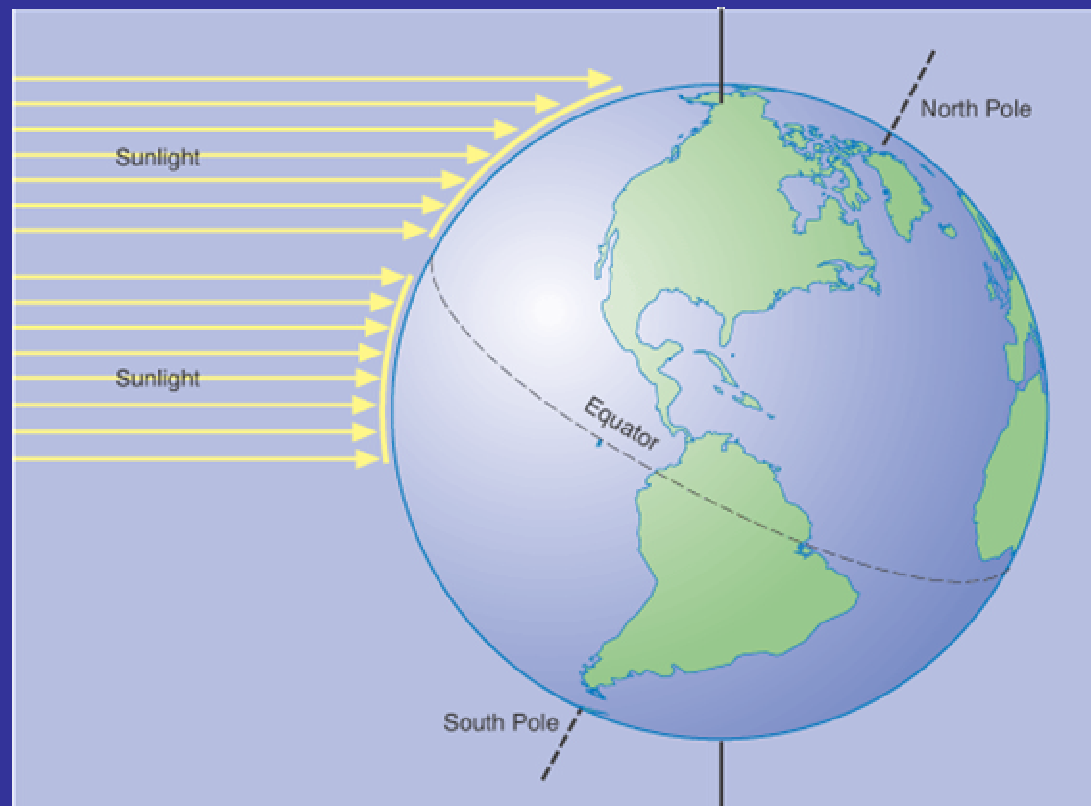


Biomas

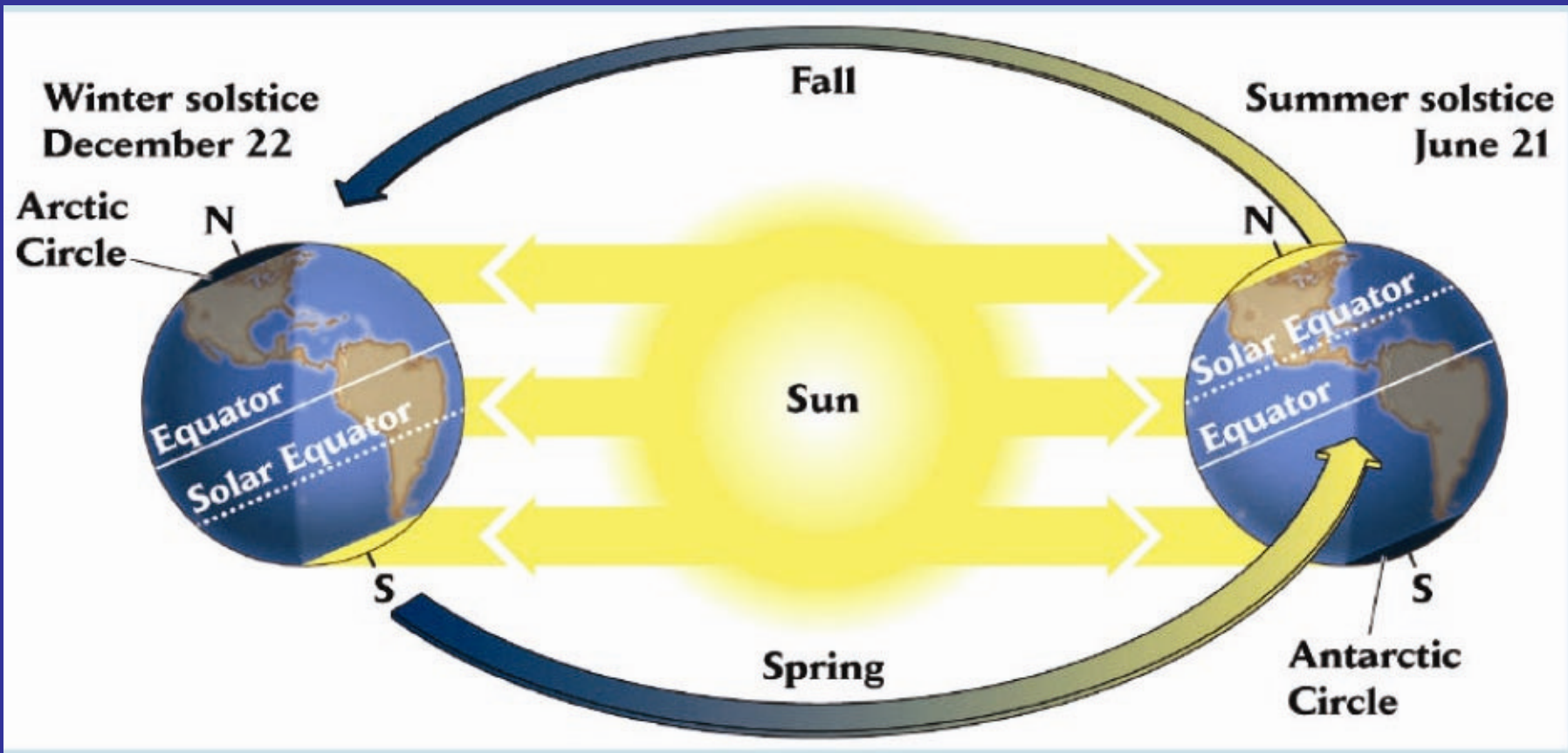
Major Biomes



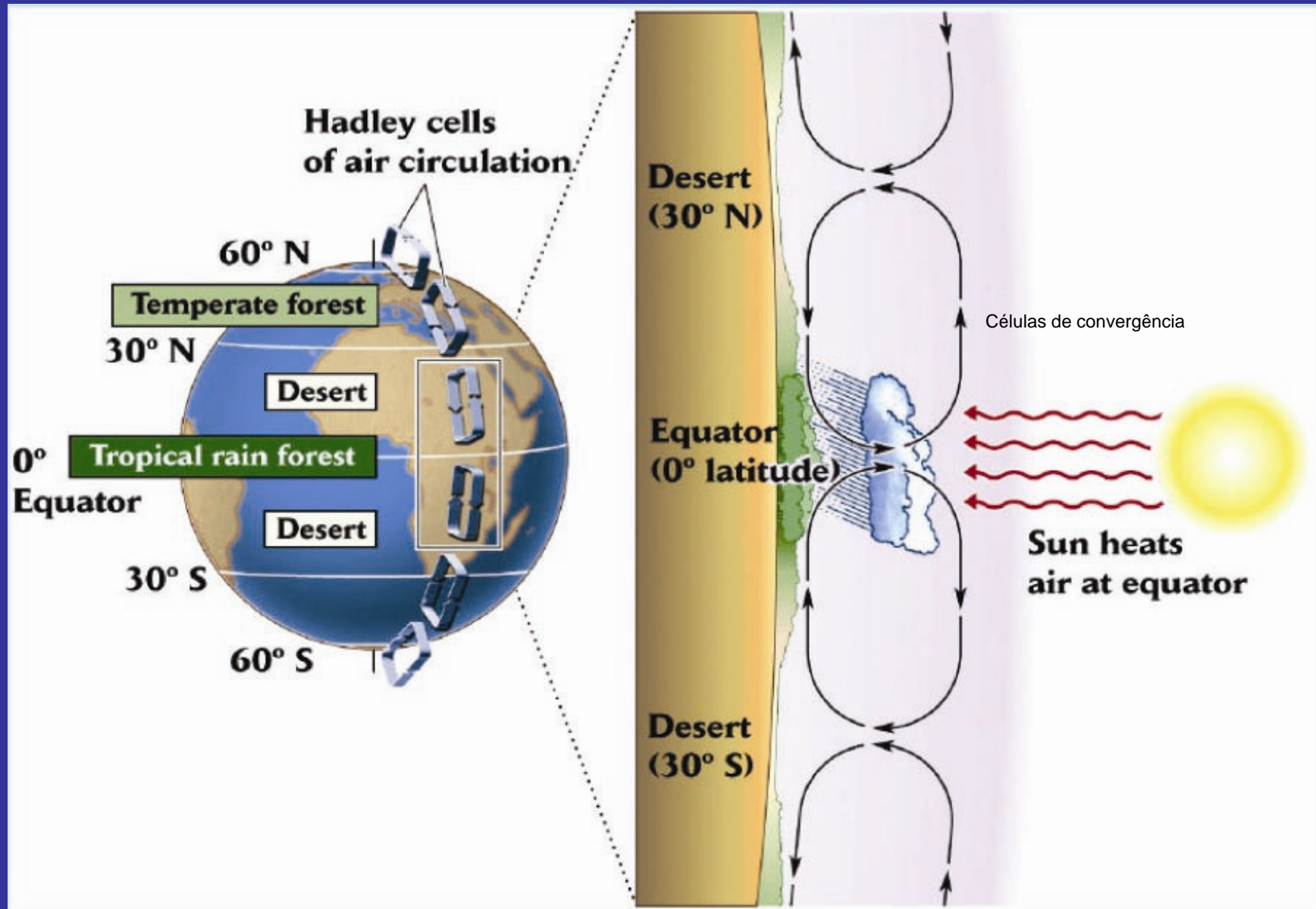
Quais os principais determinantes das formações vegetais do globo?



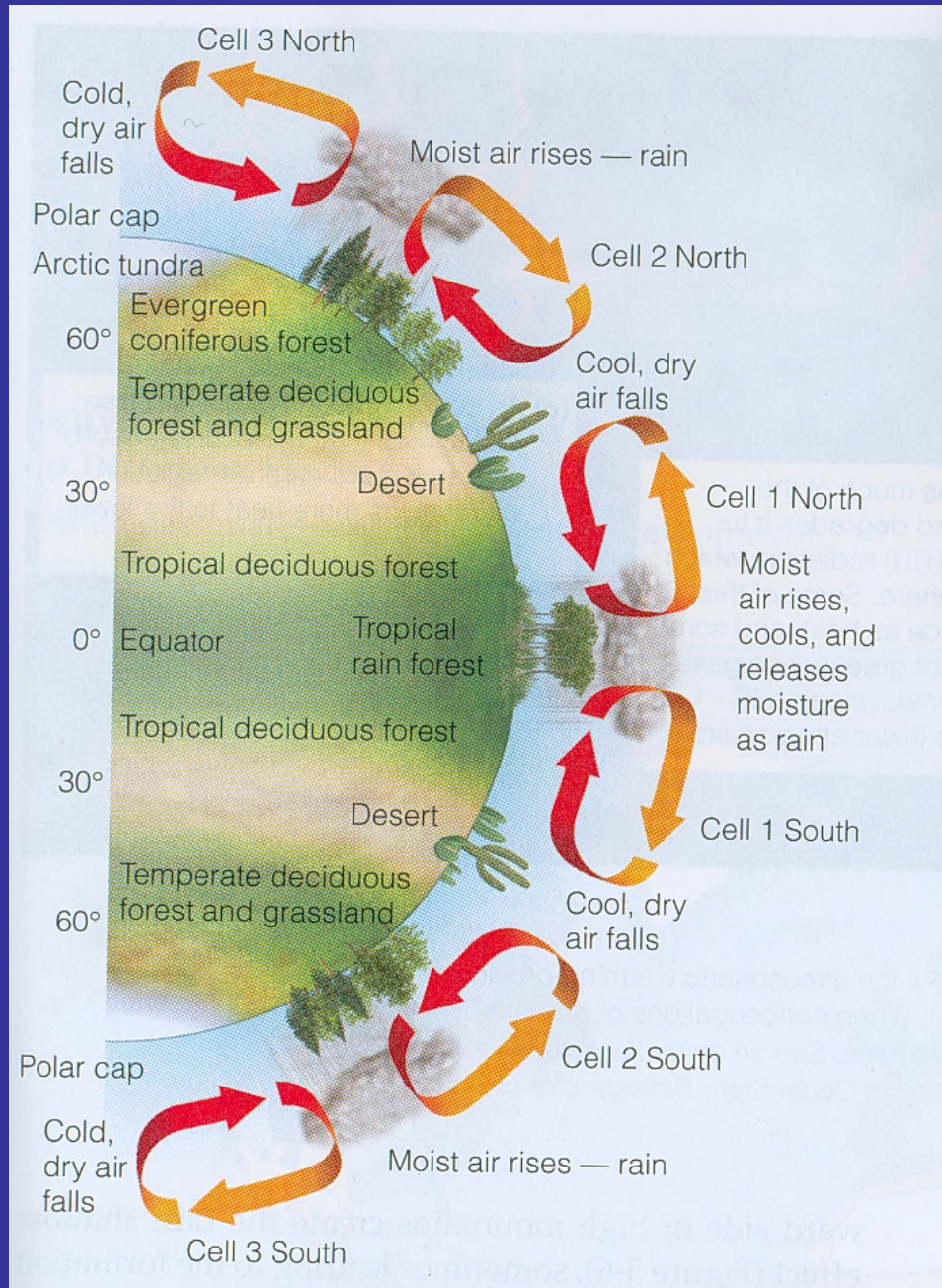
Sazonalidade da Radiação



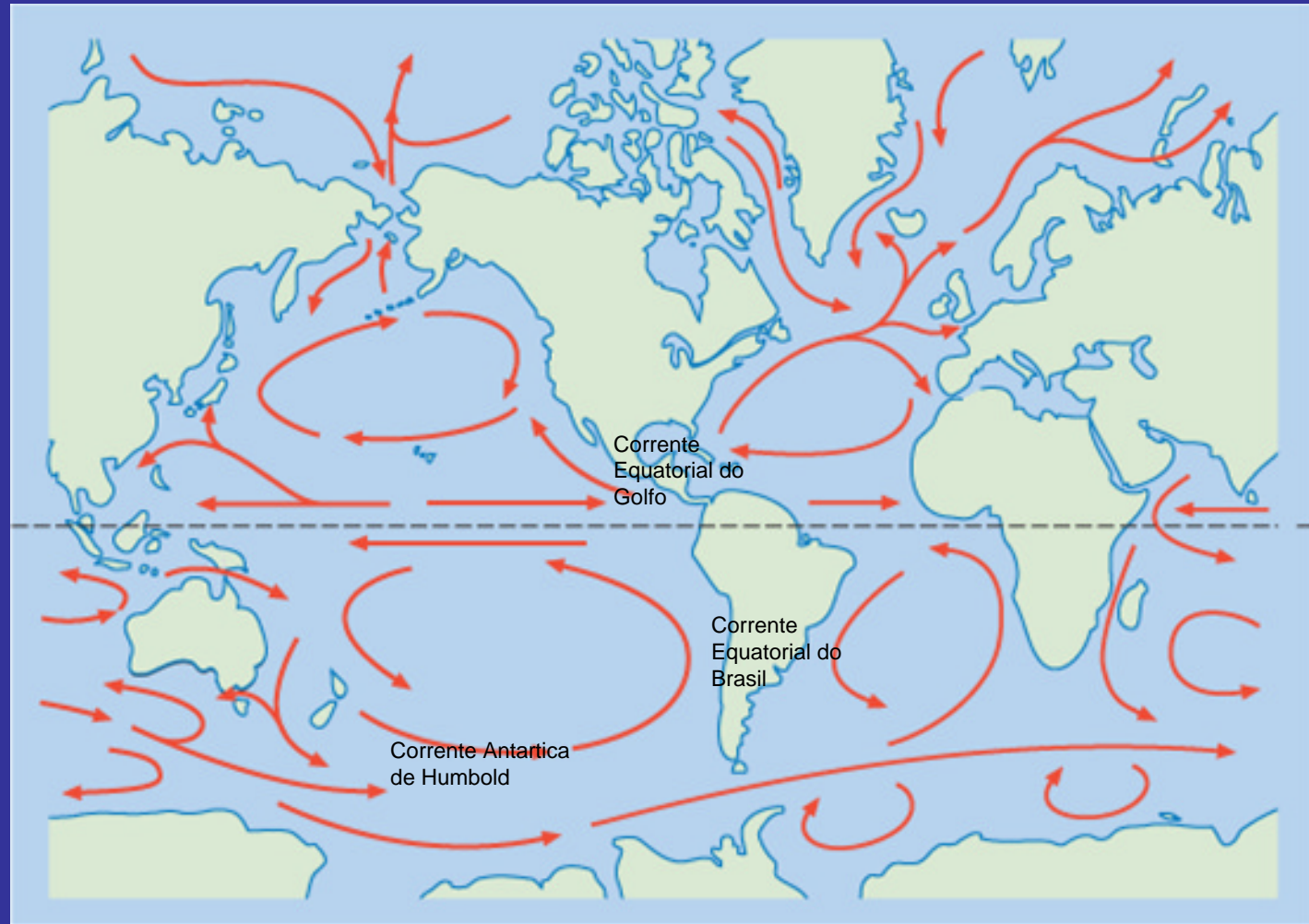
Circulação de Ar



Convergência Intertropical



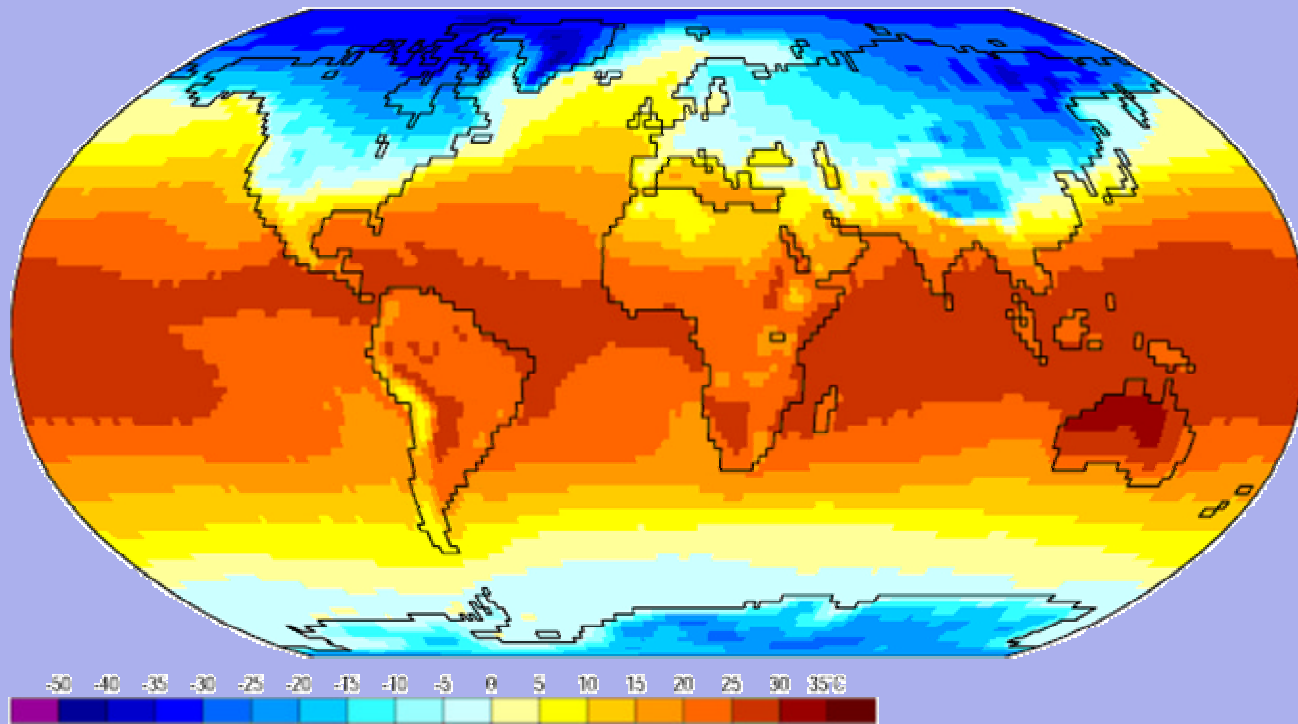
Correntes Oceânicas



Determinantes do Macro Clima

Air Temperature

Dec

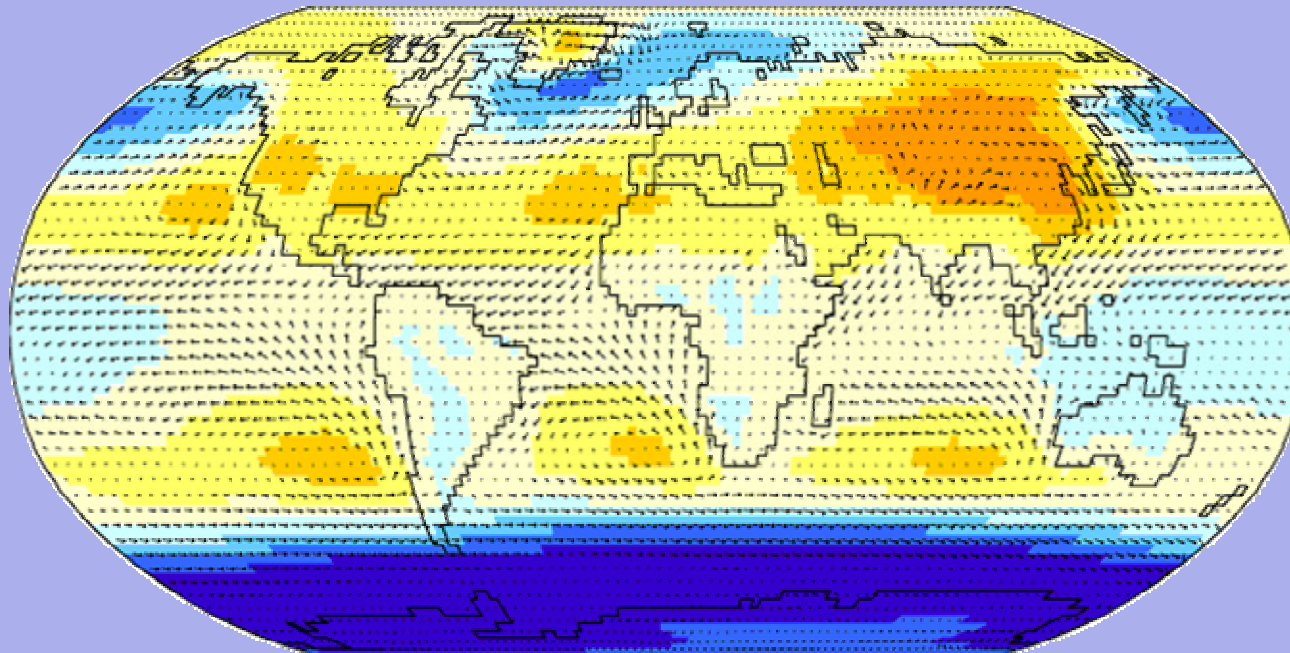


Data: NCEP/NCAR Reanalysis Project, 1958-1997 Climatologies
Animation: Department of Geography, University of Oregon, March 2000

Determinantes do Macro Clima

Sea-Level Pressure and Surface Winds

Dec

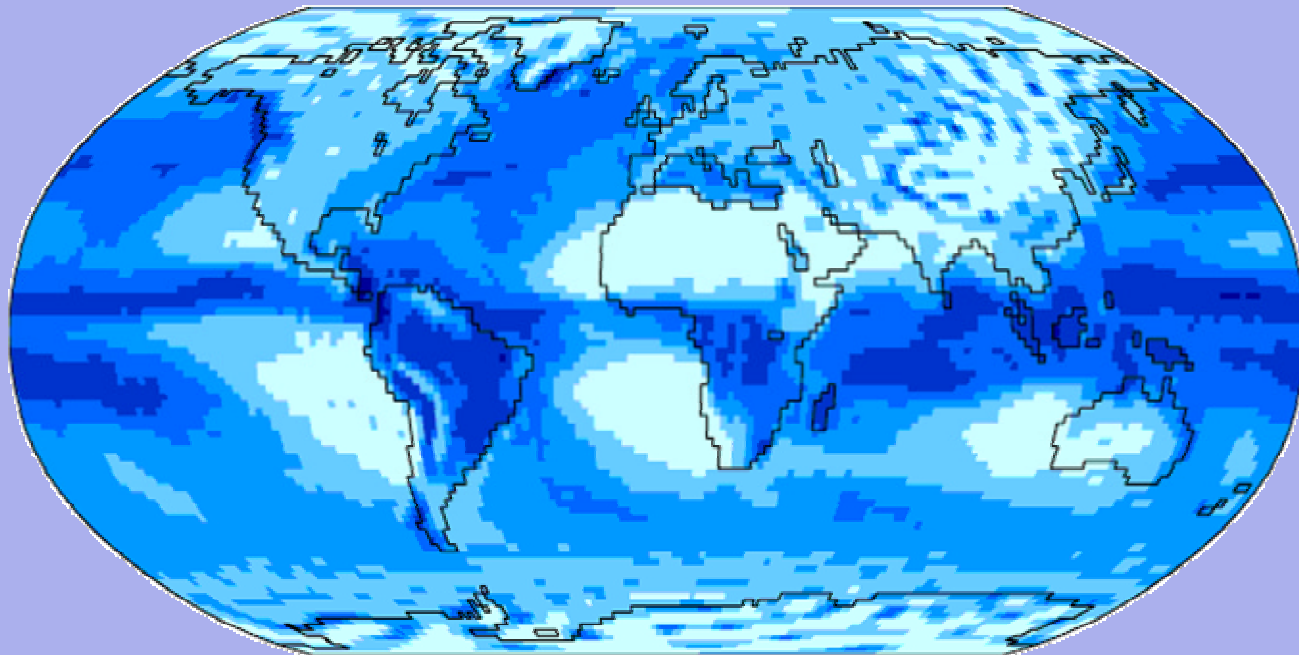


Data: NCER/NCAR Reanalysis Project, 1959-1997 Climatologies
Animator: Department of Geography, University of Oregon, March 2000

Determinantes do Macro Clima

Precipitation

Dec

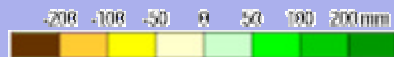
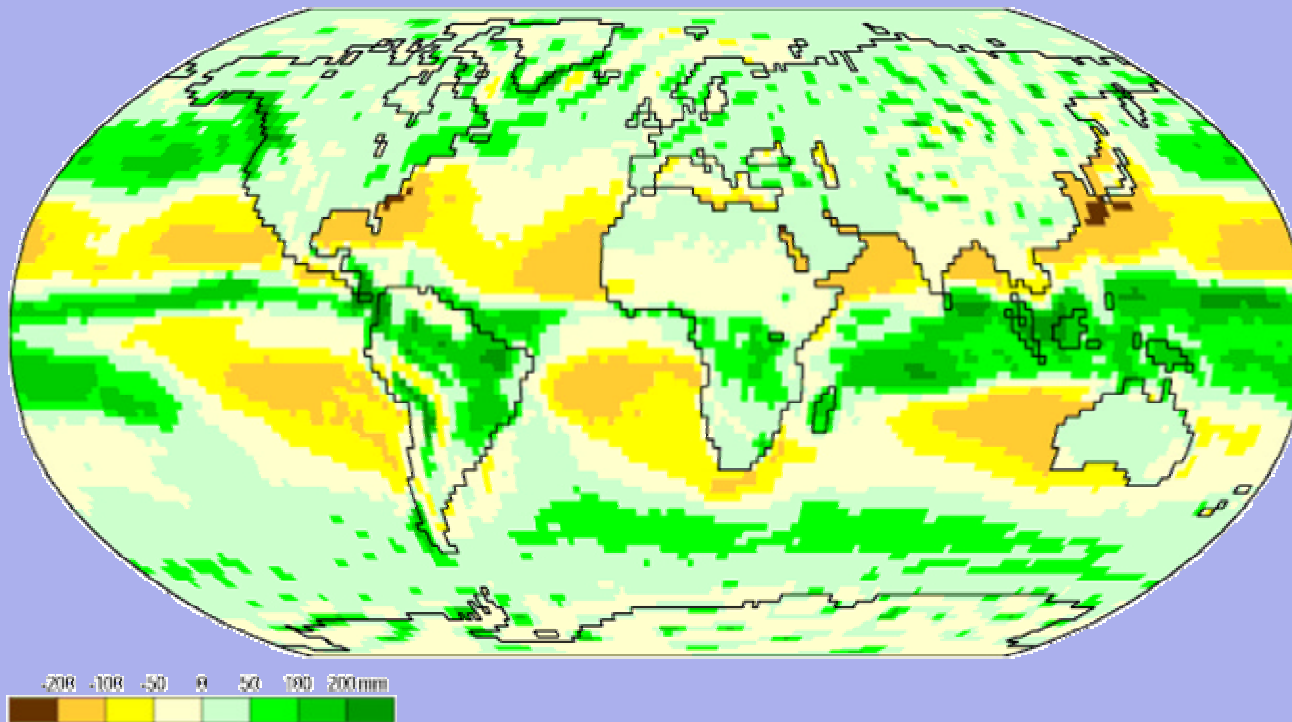


Data: NCEP/NCAR Reanalysis Project, 1958-1997 Climatologies
Animation: Department of Geography, University of Oregon, March 2000

Precipitação – Evaporação

P-E

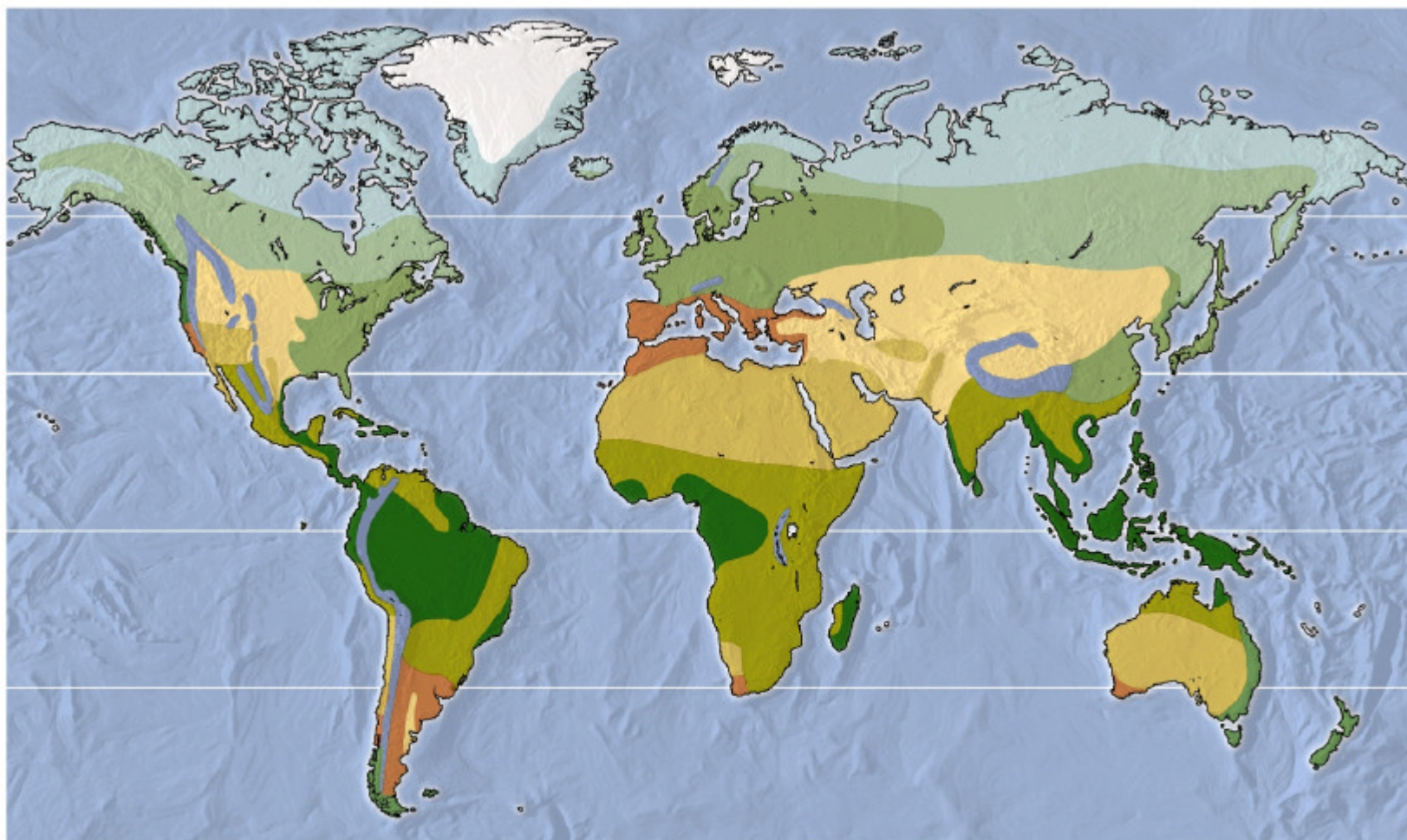
Dec



Data: NCEP/NCAR Reanalysis Project, 1959-1997/Climatologies
Animation: Department of Geography, University of Oregon, March 2000

Clima x Vegetação

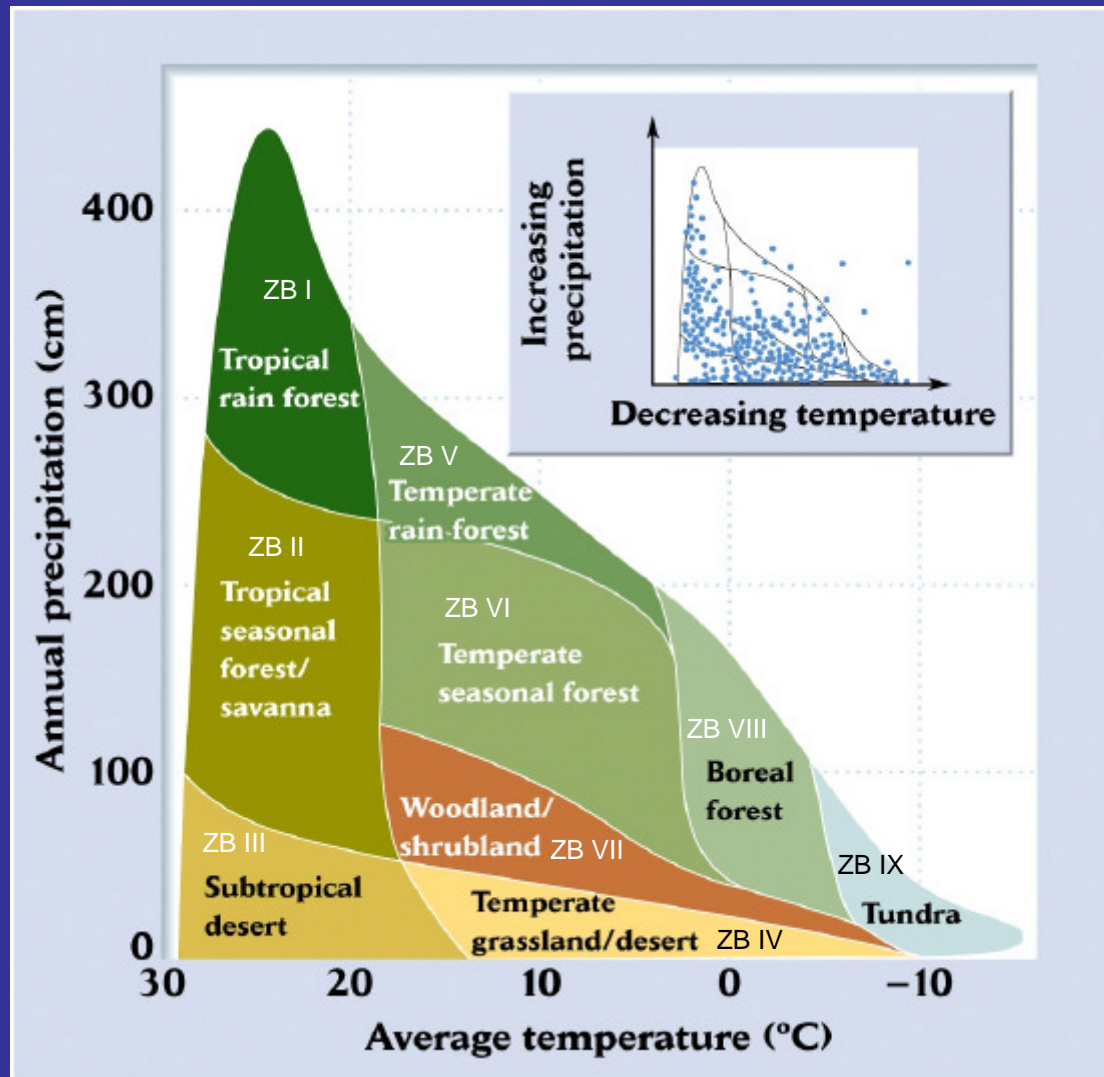
Escala Global



KEY

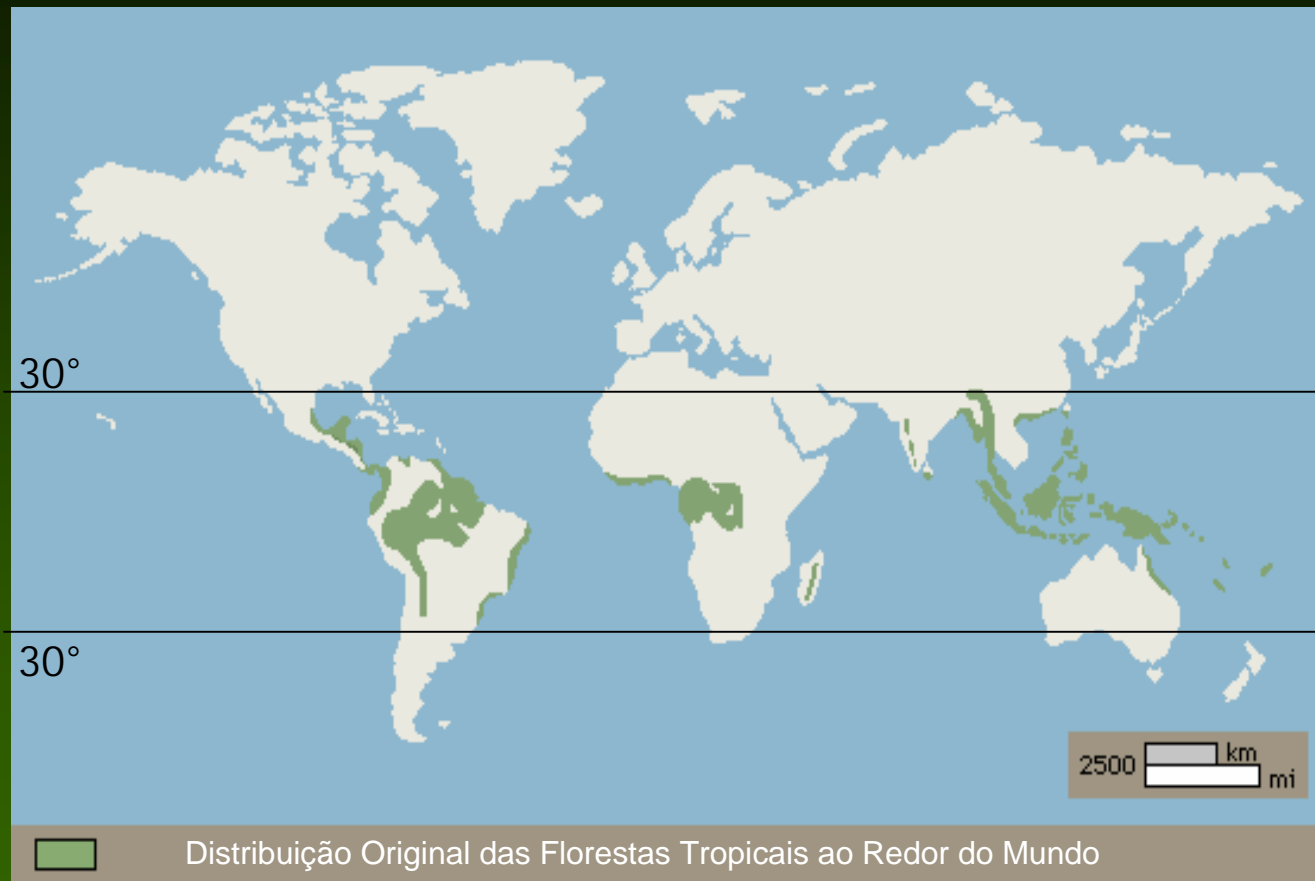
- | | | | |
|------------------------------------|-----------------------------|---------------------------|---------------|
| Tropical rain forest | Woodland /shrubland | Subtropical desert | Tundra |
| Tropical seasonal forest/ savannah | Temperate grassland/ desert | Temperate rain forest | Alpine |
| | Boreal forest | Temperate seasonal forest | Polar ice cap |

Clima Vegetação Escala Global



- ZB I : Equatorial úmido
- ZB II: Tropical sazonal, chuvas de verão
- ZB III: Árido Subtropical, desertos
- ZB IV: sazonal com verão seco e chuvas inverniais
- ZB V: Temperado quente e úmido
- ZB VI: temperado típico
- ZB VII: Temperado árido, inverno frio
- ZB VIII: Temperado frio, verão pouco quente
- ZB IX: Clima Polar Artico e Antartico

FLORESTAS TROPICAIS

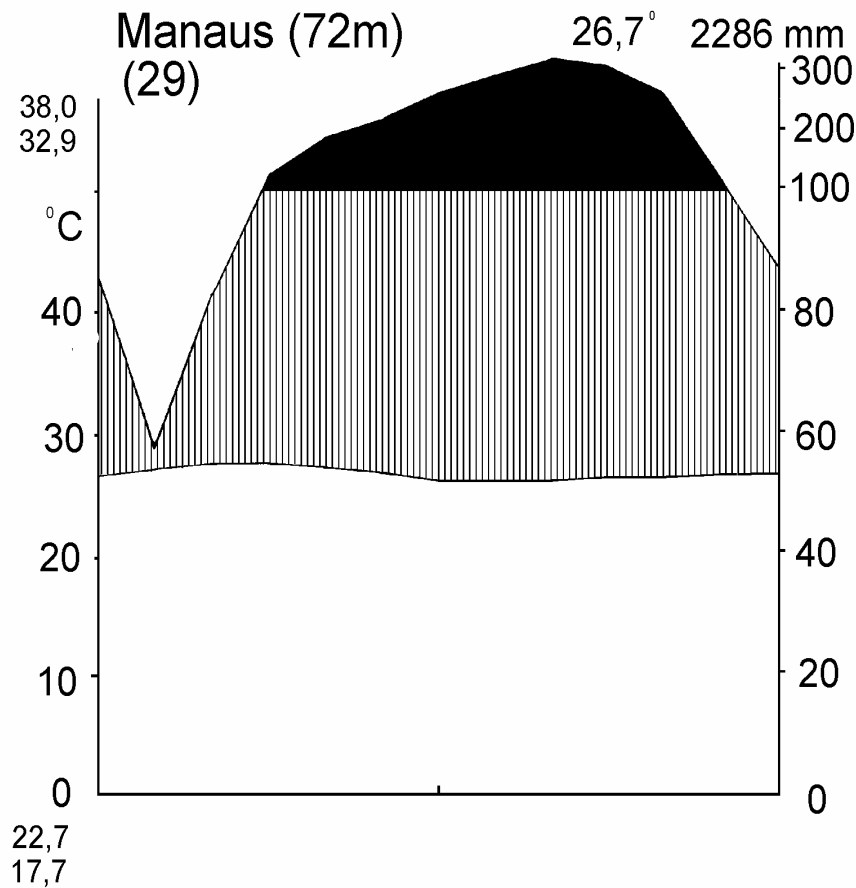


As florestas pluviais tropicais ocupam somente 7 % da superfície da terra,
mas podem abrigar 50 % de todas as espécies do planeta

Brasil abriga cerca de 40 % de todas as florestas pluviais tropicais do mundo

Florestas Pluviais Tropicais

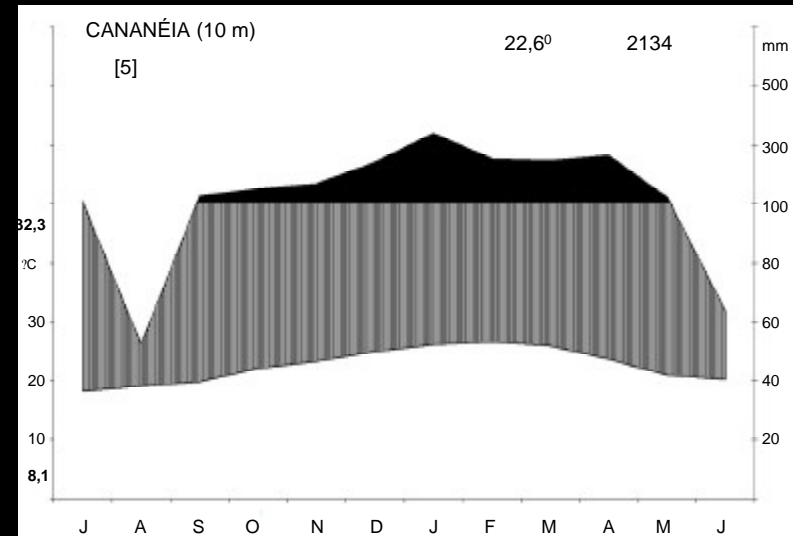
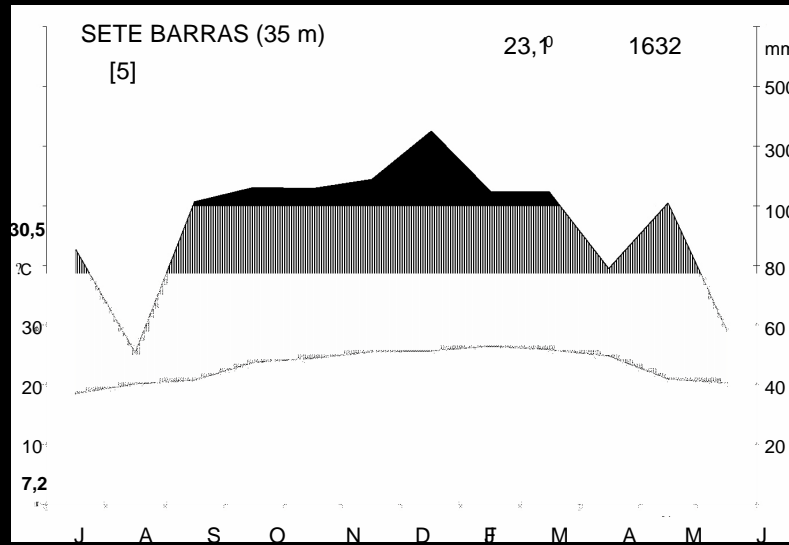
ZB I – Equatorial úmido



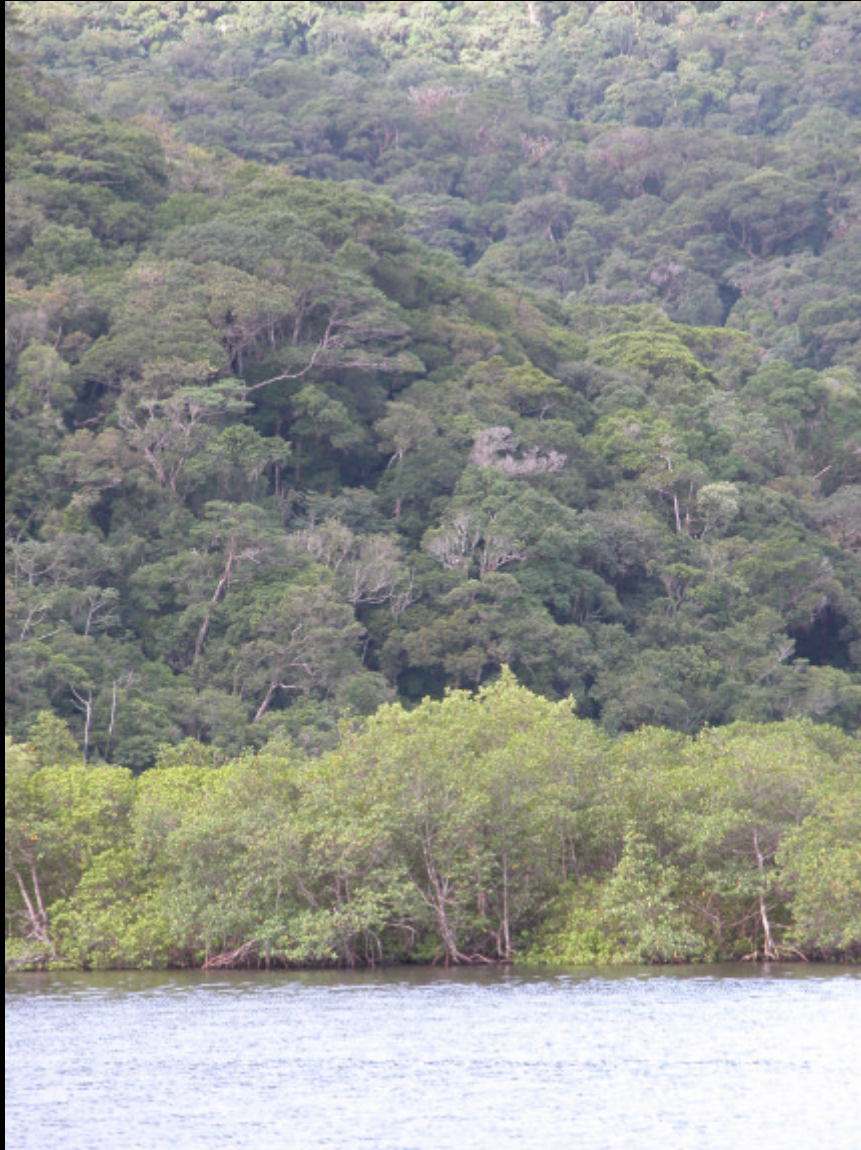




Fl oresta Atlântica



Floresta Pluvial Tropical Atlântica



A. Superwet Localities

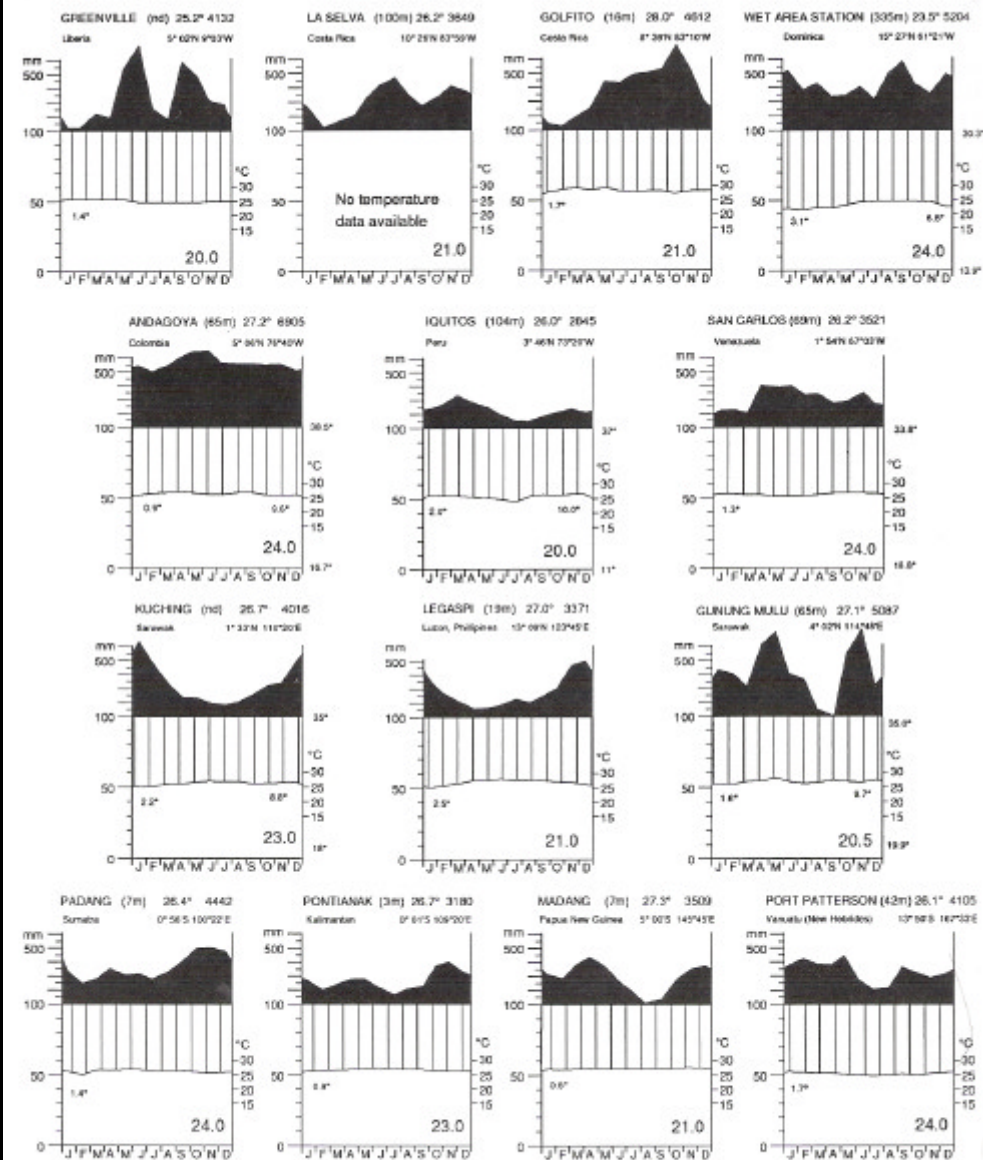
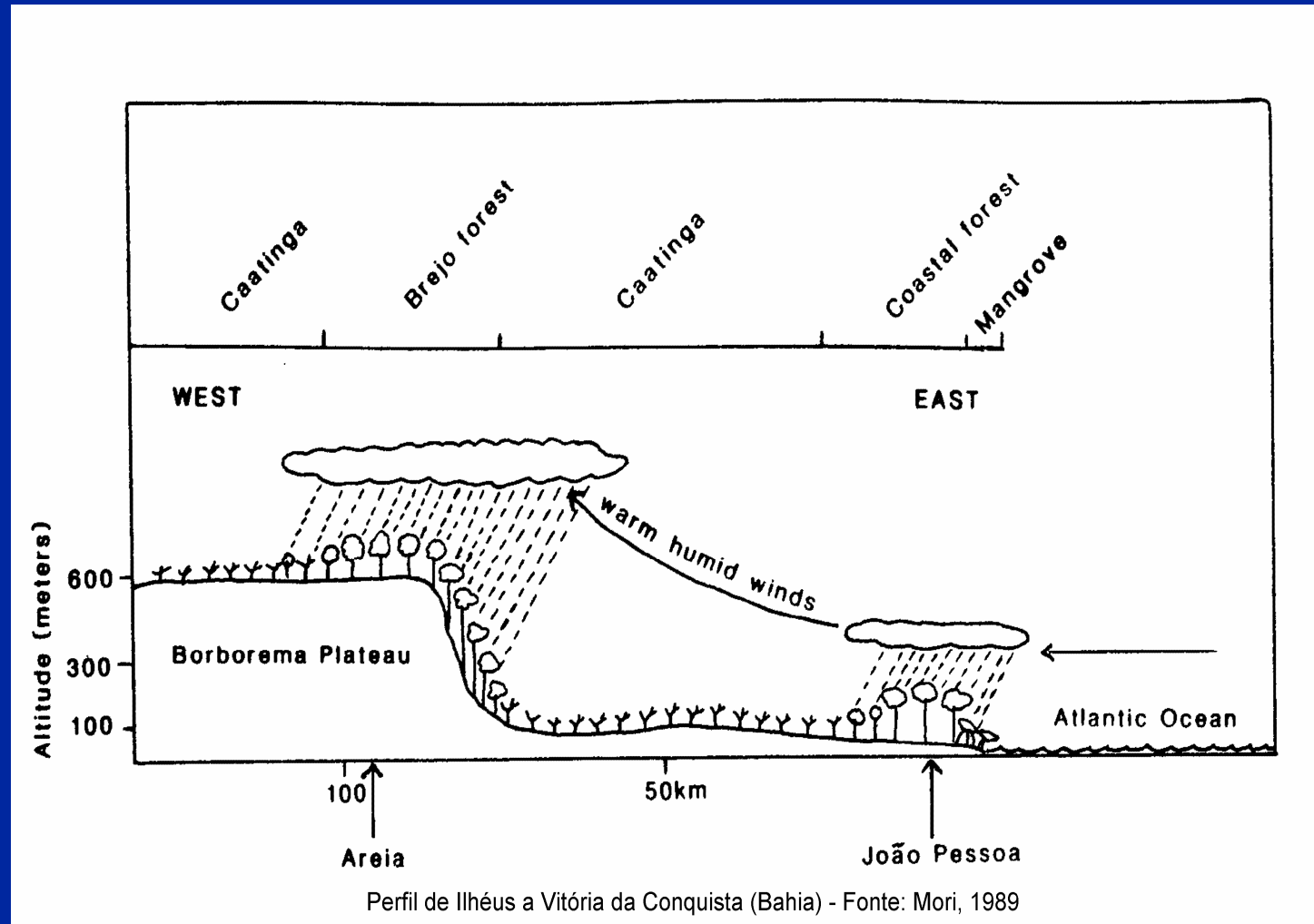


Fig. 7.2 Climate diagrams for tropical rain forest stations. Locations are shown in Figure 7.1. The diagrams mostly follow the conventions of Walter & Lieth (1960). The station name line also gives station altitude (m), mean annual temperature (°C) and mean annual rainfall (mm). The annual and mean daily ranges in temperature (°C) are shown towards the left and right, respectively, of the graph. The highest and lowest recorded temperatures are given (where available) above and below the temperature scale on the right of the graph. The rainfall data are given from top to bottom by the bars, and the temperature data are given by the line.

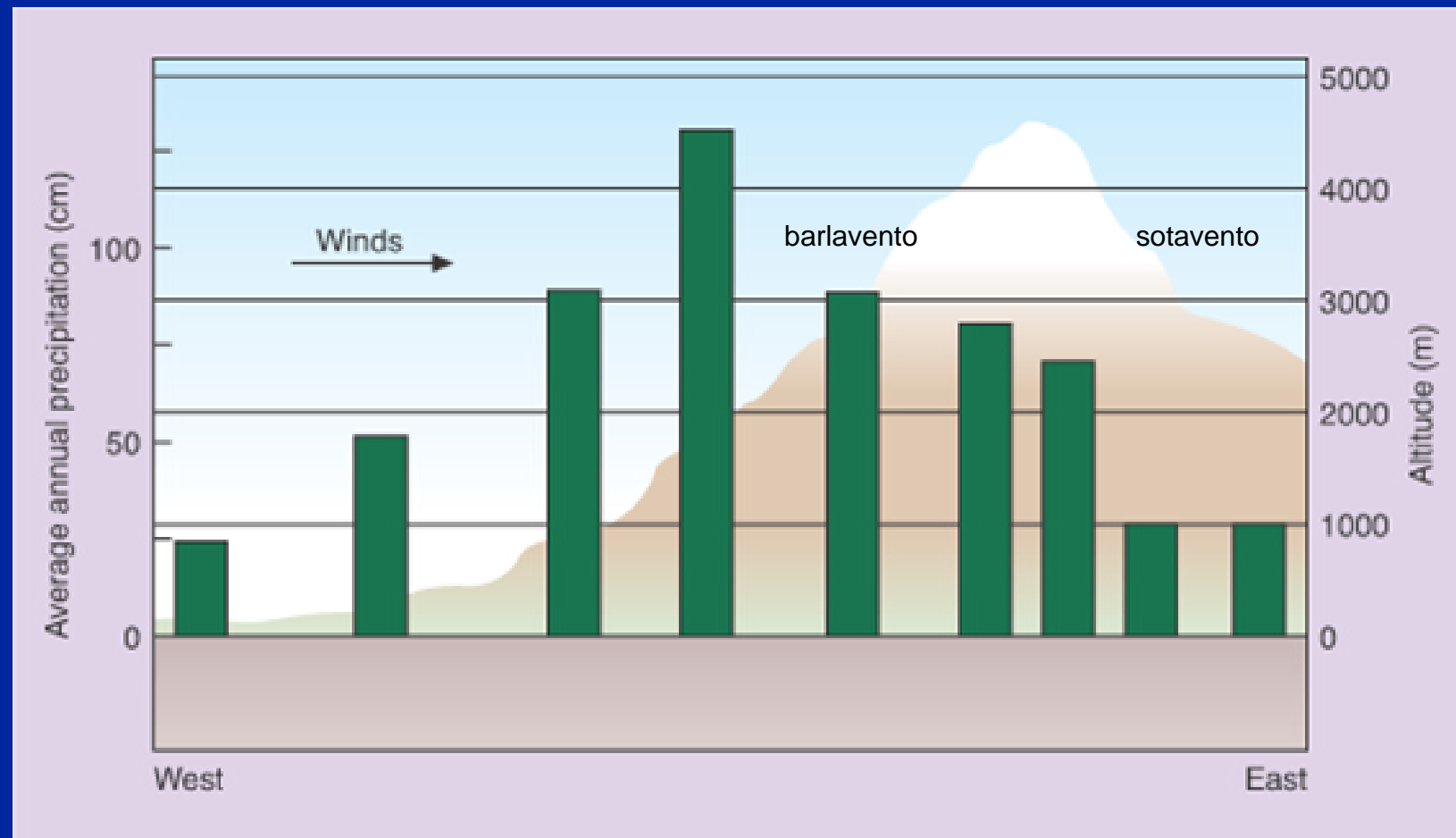
Clima x Vegetação

Escala Regional

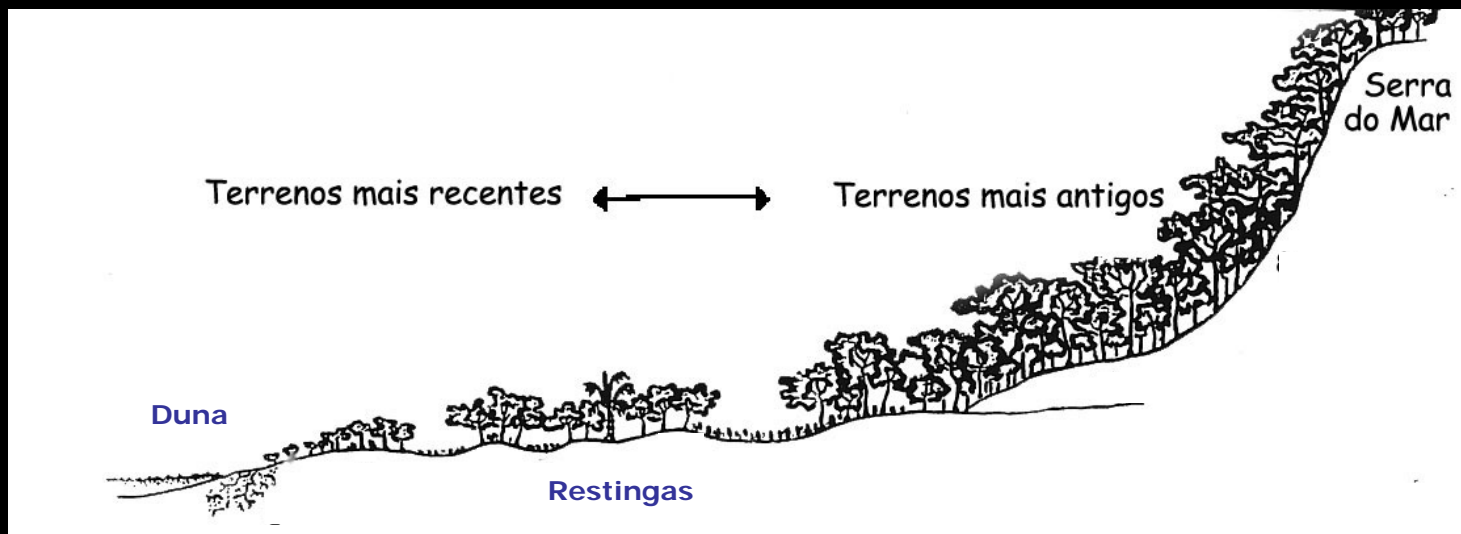


Clima x Vegetação

Escala Regional



Formações pioneiras



Formações pioneiras

- Duna



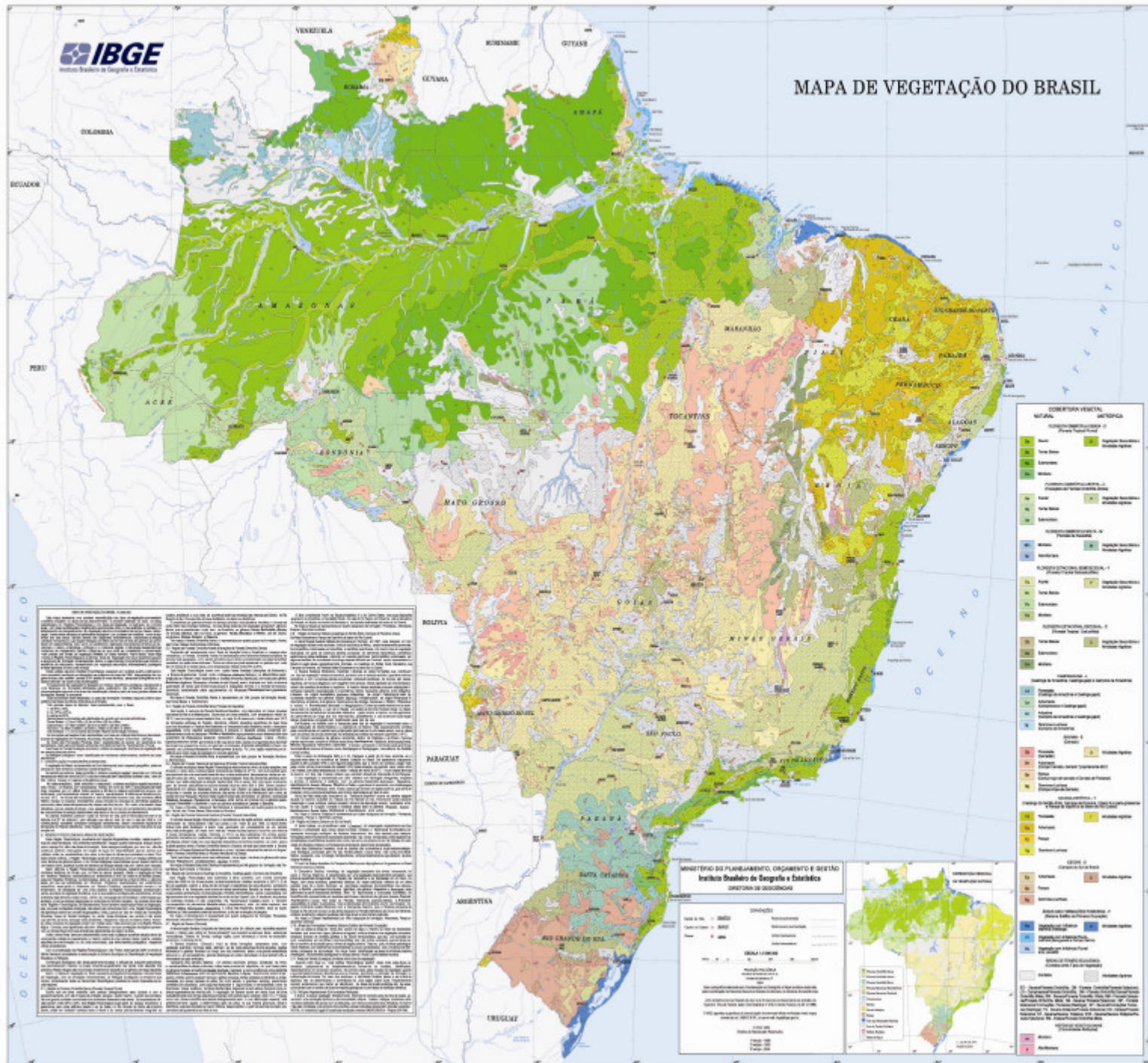
Ipomea sp.

Restingas

psamobioma I



MAPA DE VEGETAÇÃO DO BRASIL



∩ Limites Interestaduais

Campos de Altitude, encraves de cerrado, zonas de tensão ecológica, contatos.

Floresta Estacional Decidual

Floresta Estacional Semidecidual

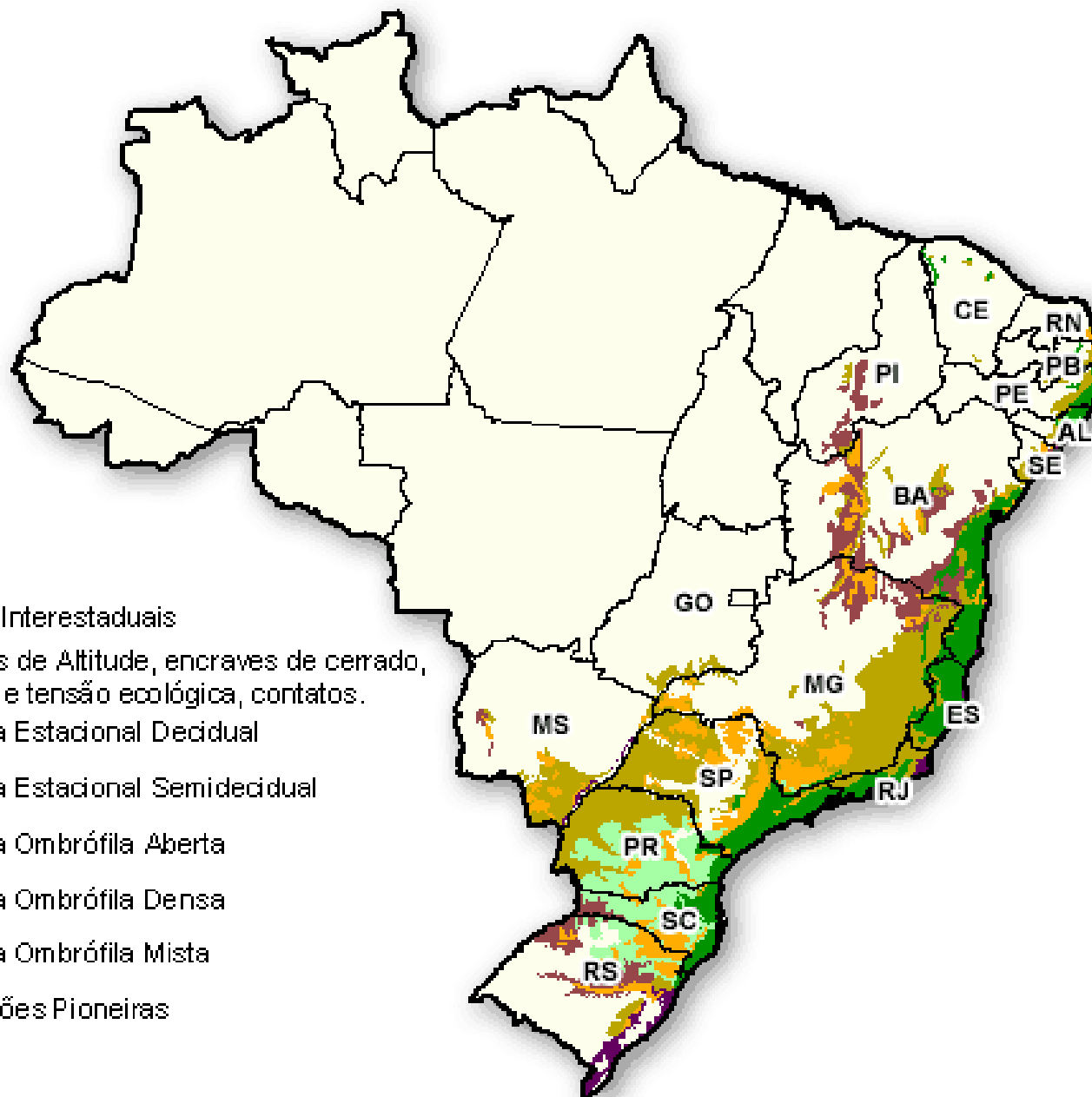
Floresta Ombrófila Aberta

Floresta Ombrófila Densa

Floresta Ombrófila Mista

Formações Pioneiras

Brasil



Floresta Atlântica

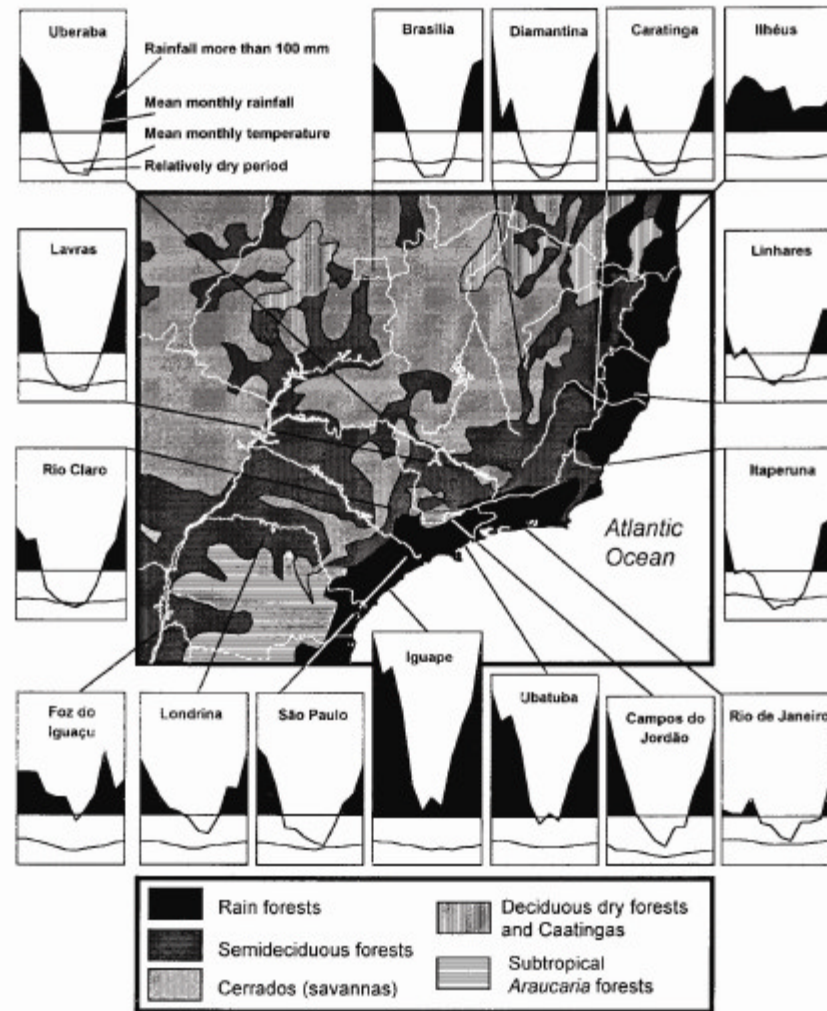
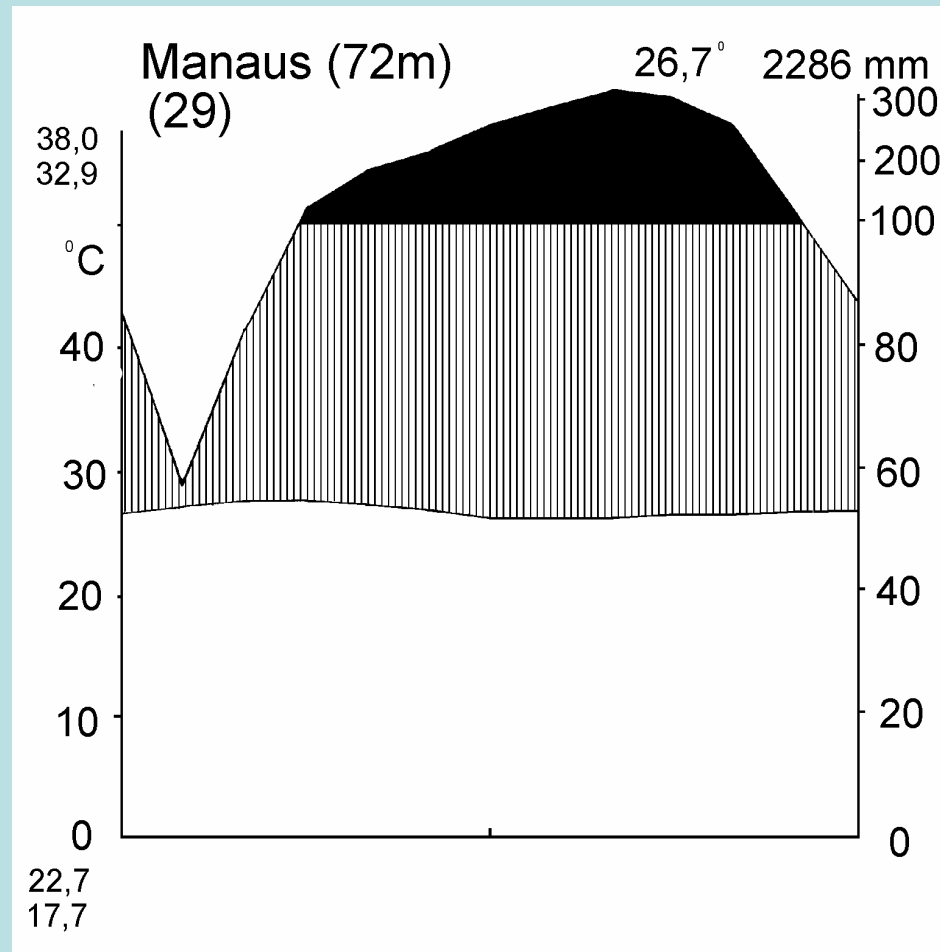


FIGURE 1. Map of southeastern Brazil showing the predominant vegetation formations, adapted from IBGE (1993), and Walter climatic diagrams for selected localities.

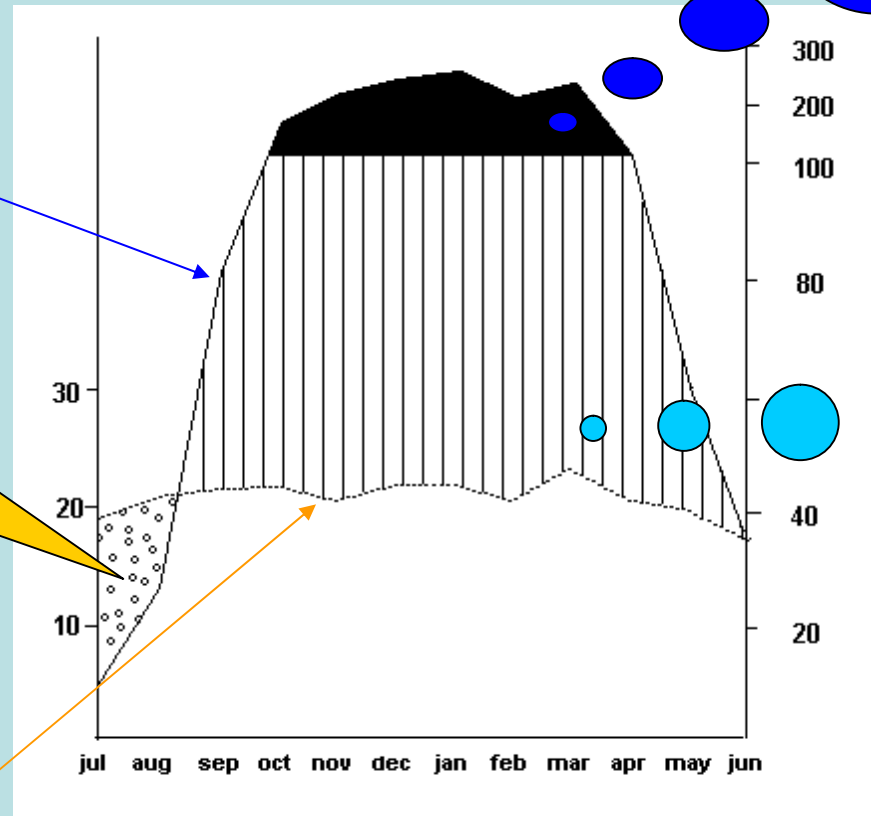
Prática: Climadiagrama



Precipitação
mensal média

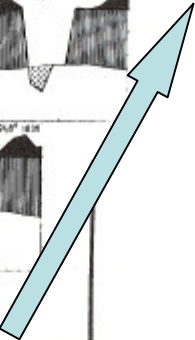
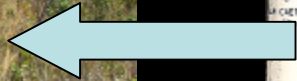
Seca, pois a
Evapotranspiração
potencial supera as
chuvas!

Temperatura
mensal média



Grande excedente
hídrico, superior a
100mm

As chuvas superam
a evapotranspiração
potencial



Current