



Boas vindas!!!

Webinar Cartografia: novos paradigmas | 2 de Julho de 2014



GEOeduc
qualificação sem fronteiras

MundoGEO

Dinâmica

Apresentação (tela + áudio)

Sessões de perguntas & respostas

Sorteio!!!

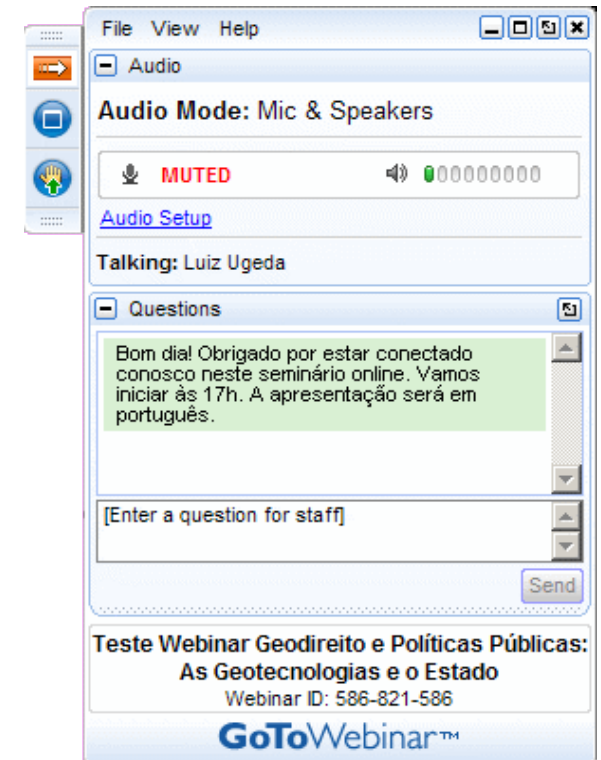
Webinar Cartografia: novos paradigmas | 2 de Julho de 2014



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Perguntas & Comentários



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Lembretes

Arquivos (pdf + vídeo)

Certificados

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Novos paradigmas?!?

Mapa em 1 minuto

Satisfatório?

**O que são Mapas
e para que servem?**



Planta, Mapa, Carta



METRÔ - SP



1:25,000-scale metric
topographic map of
Mount Marcy
New York



- 1:25,000-scale metric
topographic map
- Contour and elevation
in meters
 - Highway, road, and other
transportation features
 - River, stream, and
lake features
 - Elevation contours



Mount Marcy, the highest mountain peak in New York State, is located in the Adirondack Park region of the northwestern corner of the state. This map shows the area around Mount Marcy, including the Adirondack Park, the Adirondack Park State Park, and the Adirondack Park State Historic Site. The map also shows the Adirondack Park State Historic Site, the Adirondack Park State Park, and the Adirondack Park State Historic Site.

Mount Marcy is the highest mountain peak in New York State, and is located in the Adirondack Park region of the northwestern corner of the state. This map shows the area around Mount Marcy, including the Adirondack Park, the Adirondack Park State Park, and the Adirondack Park State Historic Site.

For more information, visit www.nys.gov.

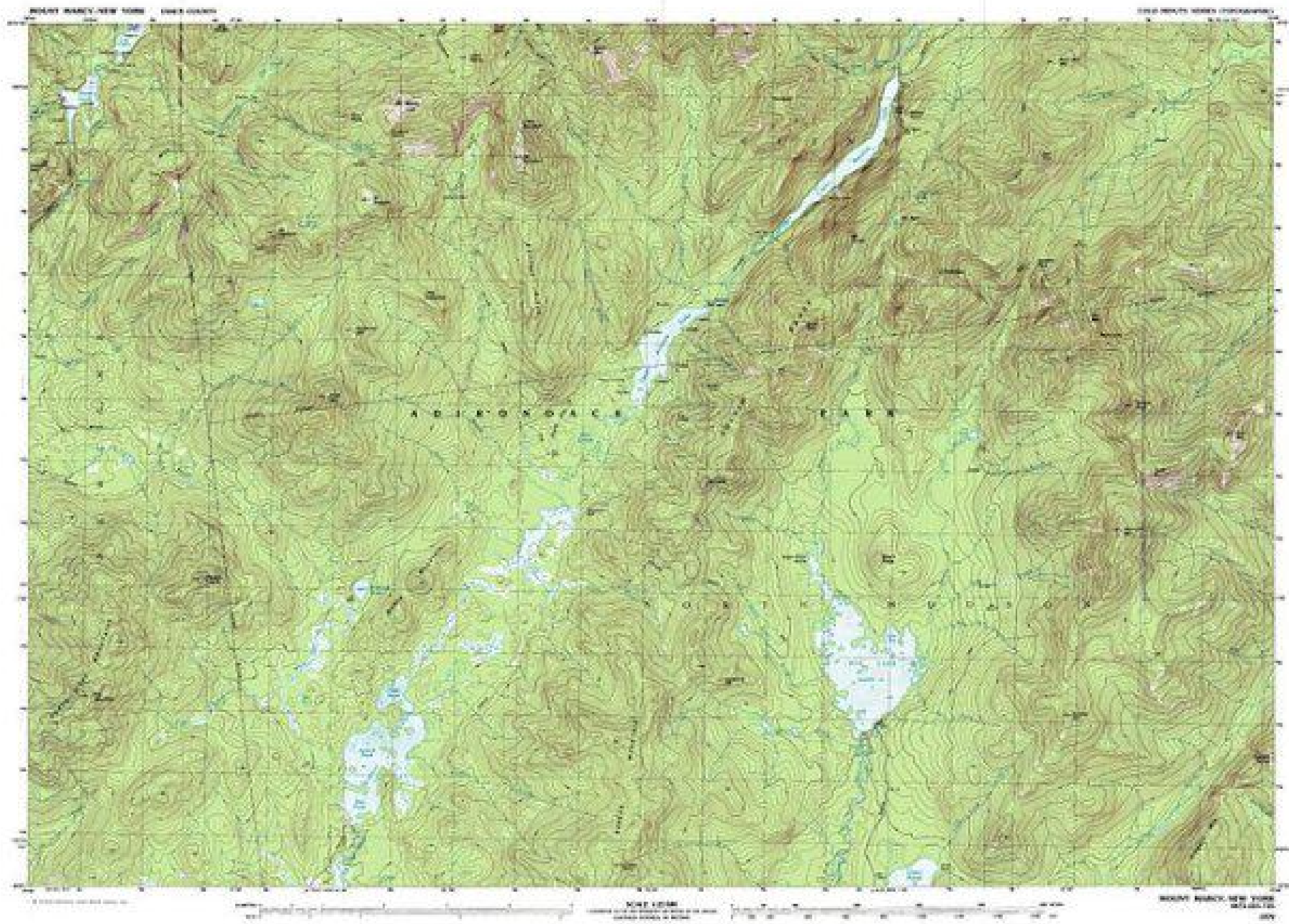


Scale: 1:25,000
Scale: 1:25,000

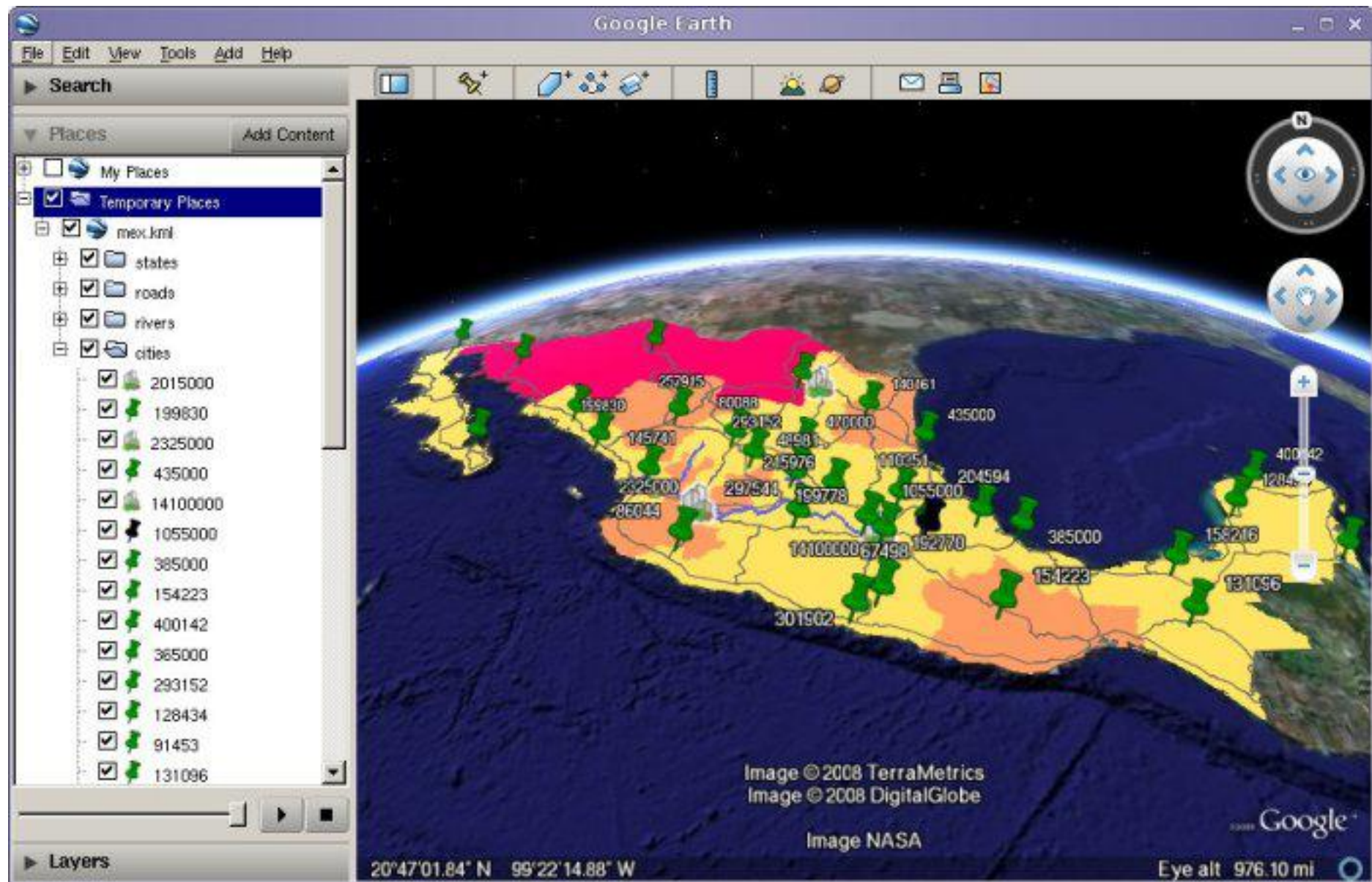
Topographic Map Symbols

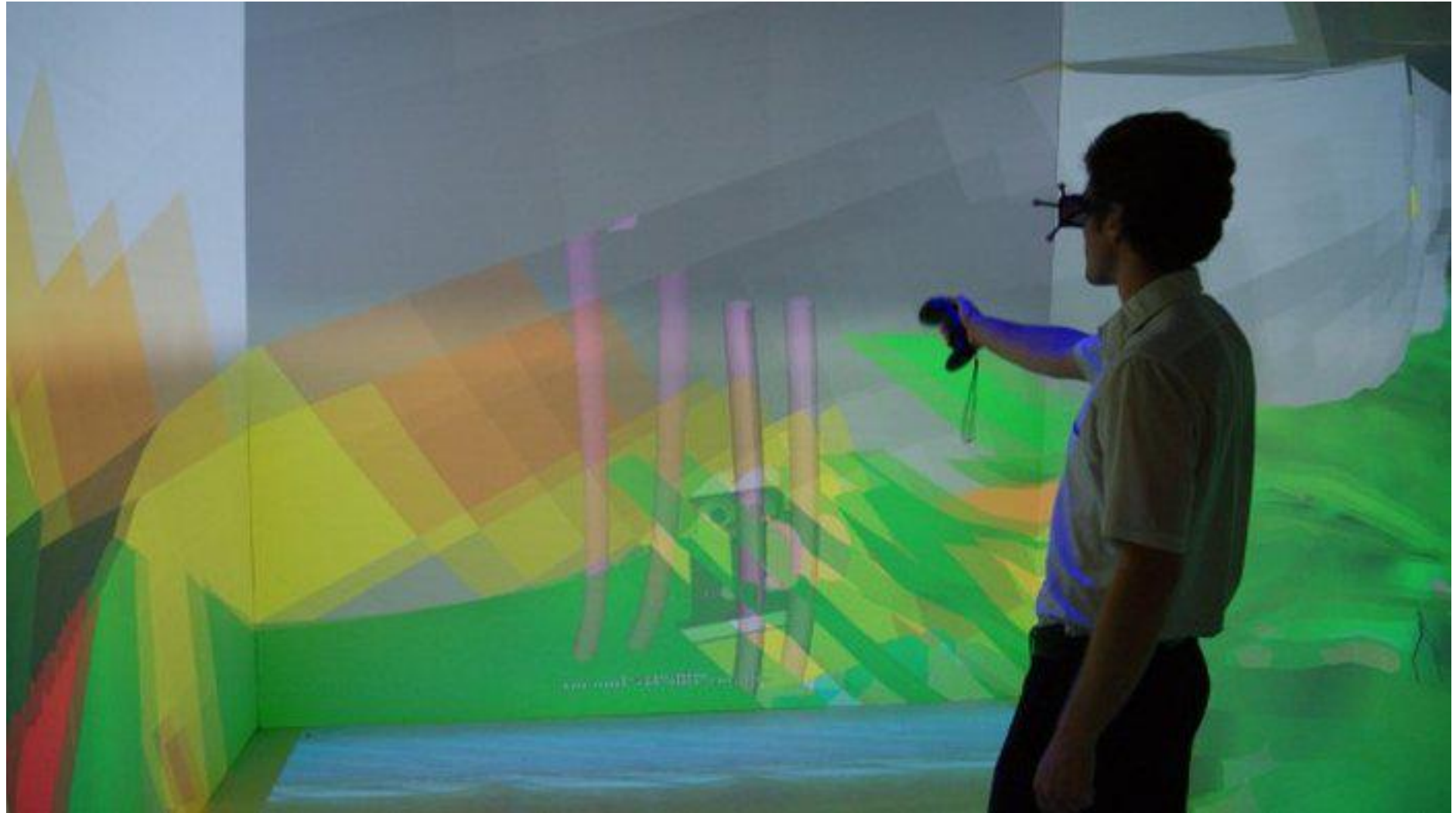
Symbol	Description
[Contour line]	Elevation contour
[Blue line]	Stream
[Blue area]	Lake
[Red line]	Highway
[Black line]	Road
[Green area]	Forest
[Brown area]	Barren land
[Pink area]	Residential
[Yellow area]	Open land
[Blue area]	Water
[Black dot]	Spot elevation
[Black line]	Boundary
[Black line]	Property line
[Black line]	Utility line
[Black line]	Power line
[Black line]	Telephone line
[Black line]	Railroad
[Black line]	Canal
[Black line]	Ditch
[Black line]	Drainage ditch
[Black line]	Levee
[Black line]	Dike
[Black line]	Breakwater
[Black line]	Jetty
[Black line]	Wharf
[Black line]	Pier
[Black line]	Dock
[Black line]	Breakwater
[Black line]	Jetty
[Black line]	Wharf
[Black line]	Pier
[Black line]	Dock

© 2000 National Geographic Society



Métodos de Representação







O que vem por aí?

Mapas indoor

Tudo em 3D!?!?

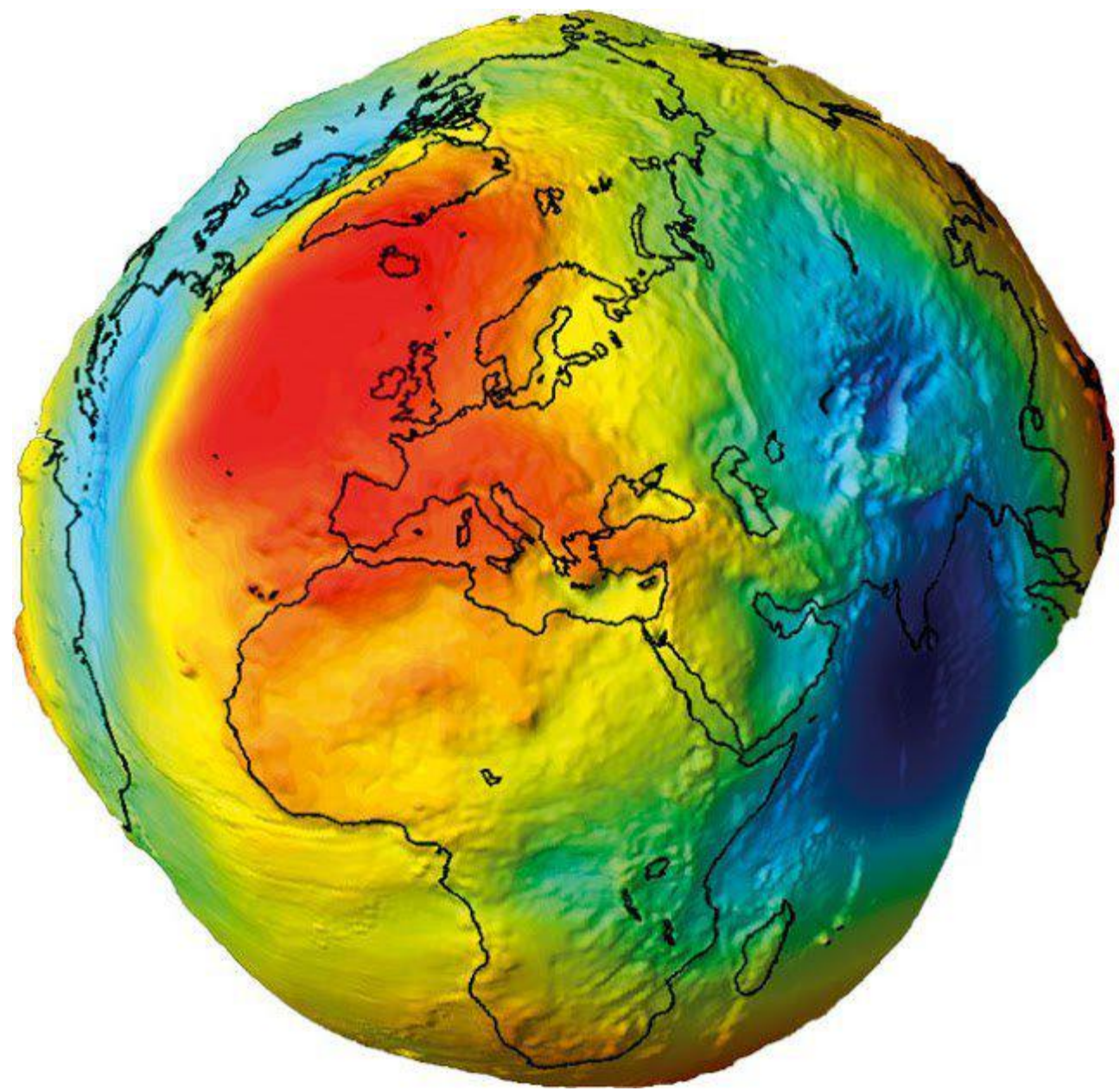
Mapas colaborativos

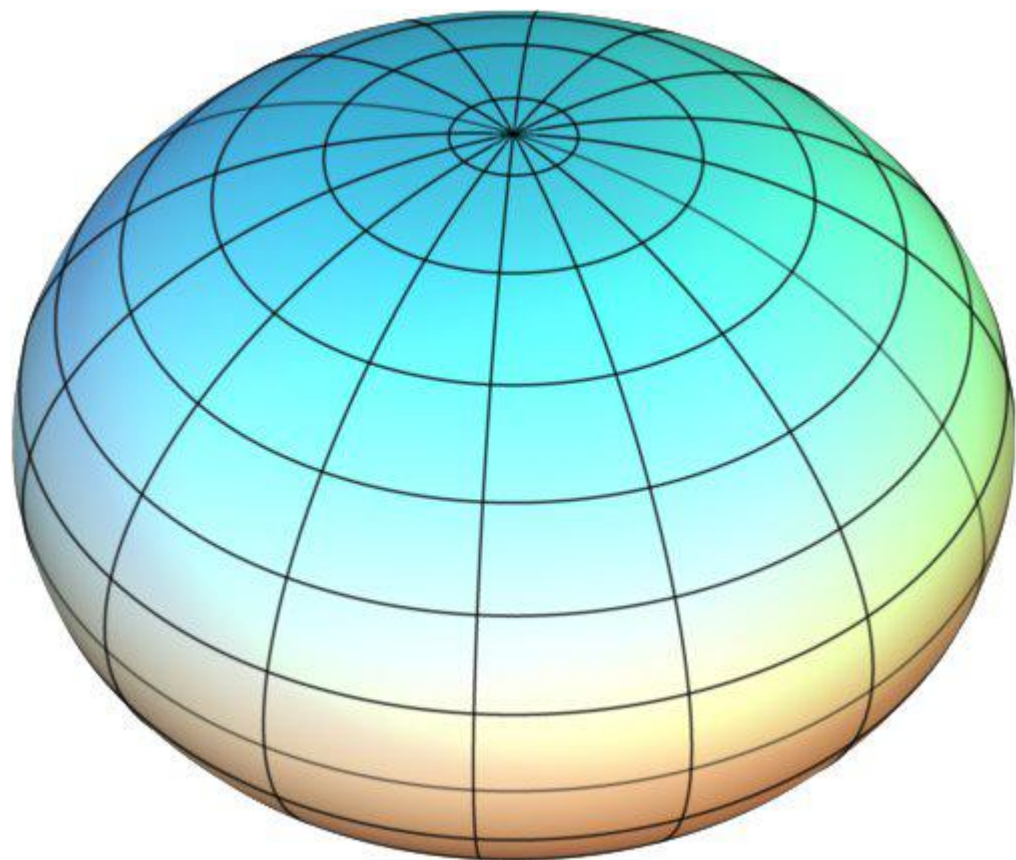
**Imagens de
altíssima resolução**

**Mais opções para
posicionamento e
navegação**

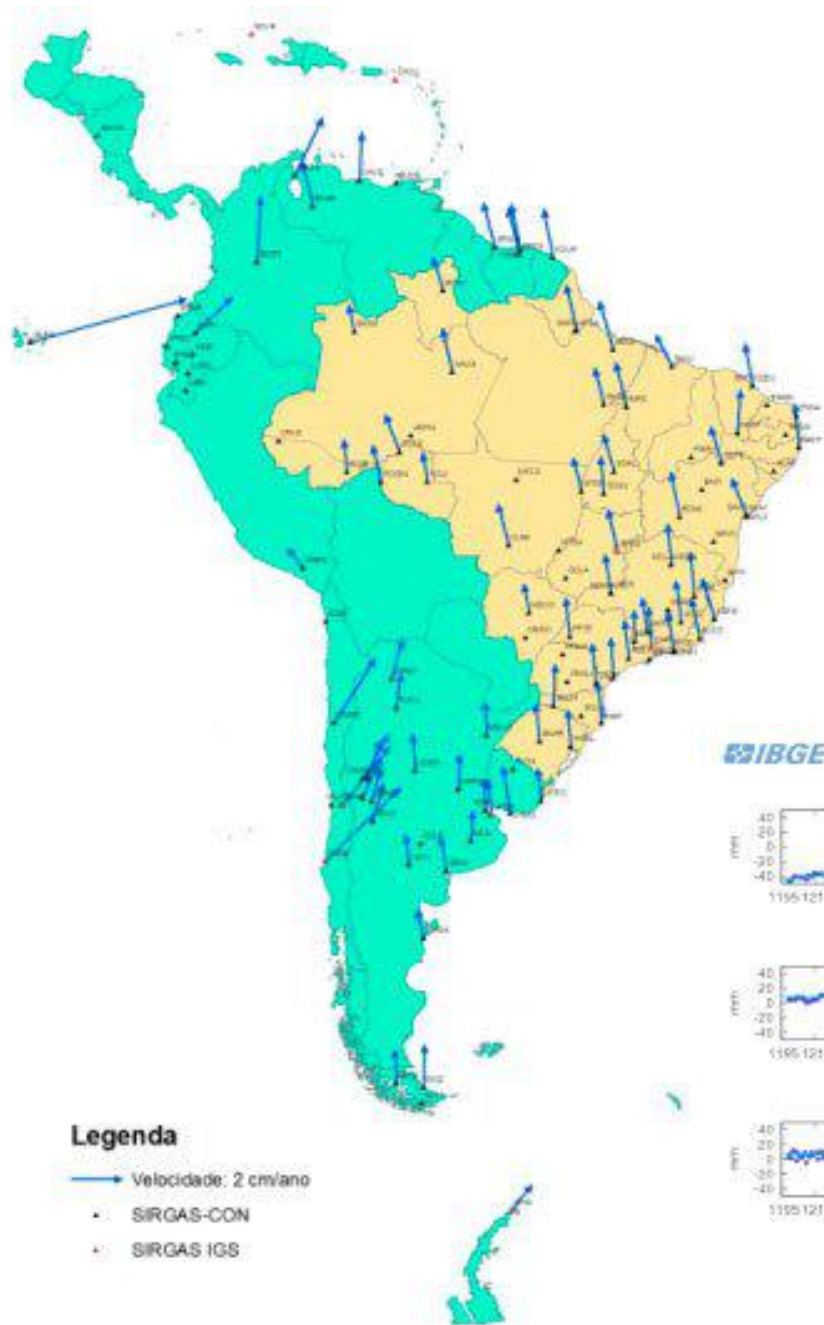
Big Data

A Terra não é redonda!





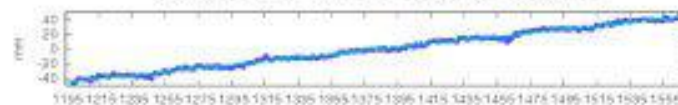
Sistemas de Referência



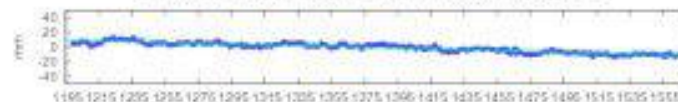
IBGE

RIO0 - Velocidade Paramétrica 0,01265 ± 9e-05 m/ano

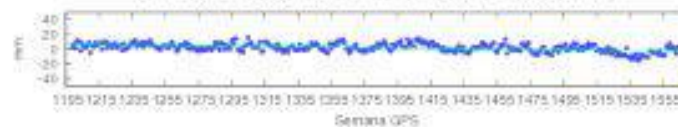
Norte - Coef = 0,23994 ± 0,0011 mm/semana (0,01251 ± 6e-05 m/ano)



Leste - Coef = -0,05612 ± 0,00127 mm/semana (-0,00293 ± 7e-05 m/ano)



Altura - Coef = -0,02338 ± 0,00245 mm/semana (-0,00122 ± 0,00013 m/ano)



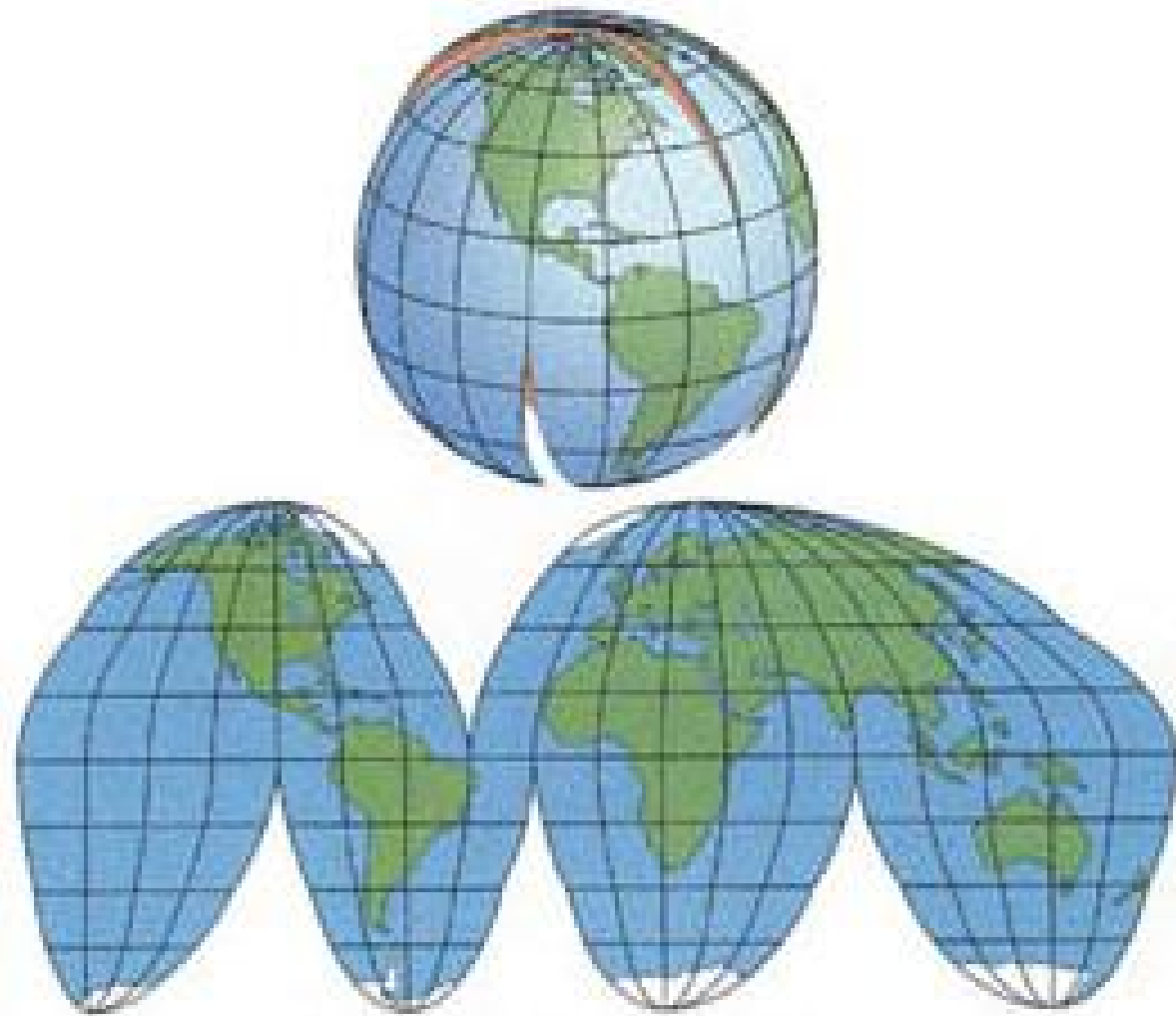
Sistemas de Coordenadas

Latitude, Longitude

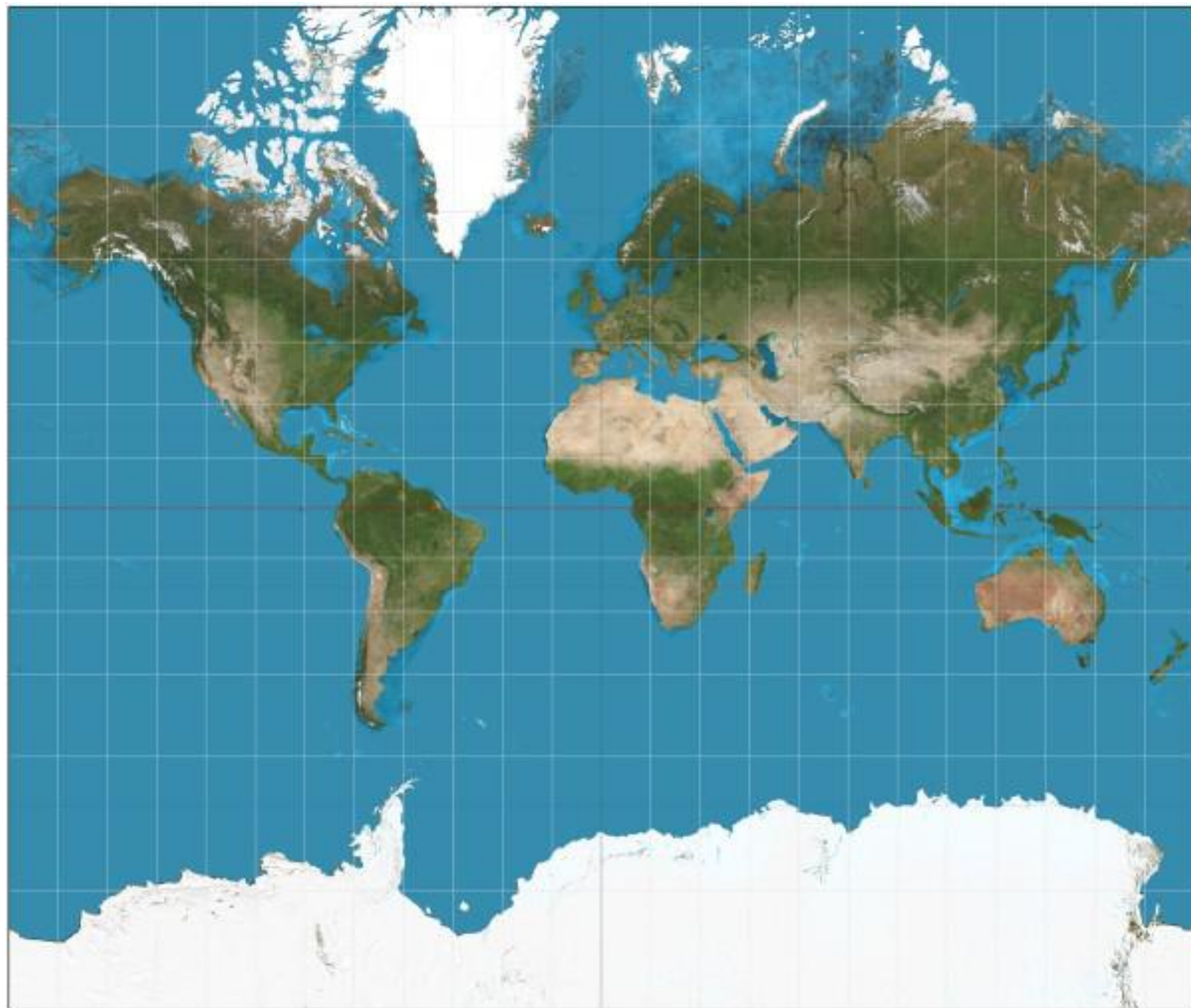
UTM

Outros???

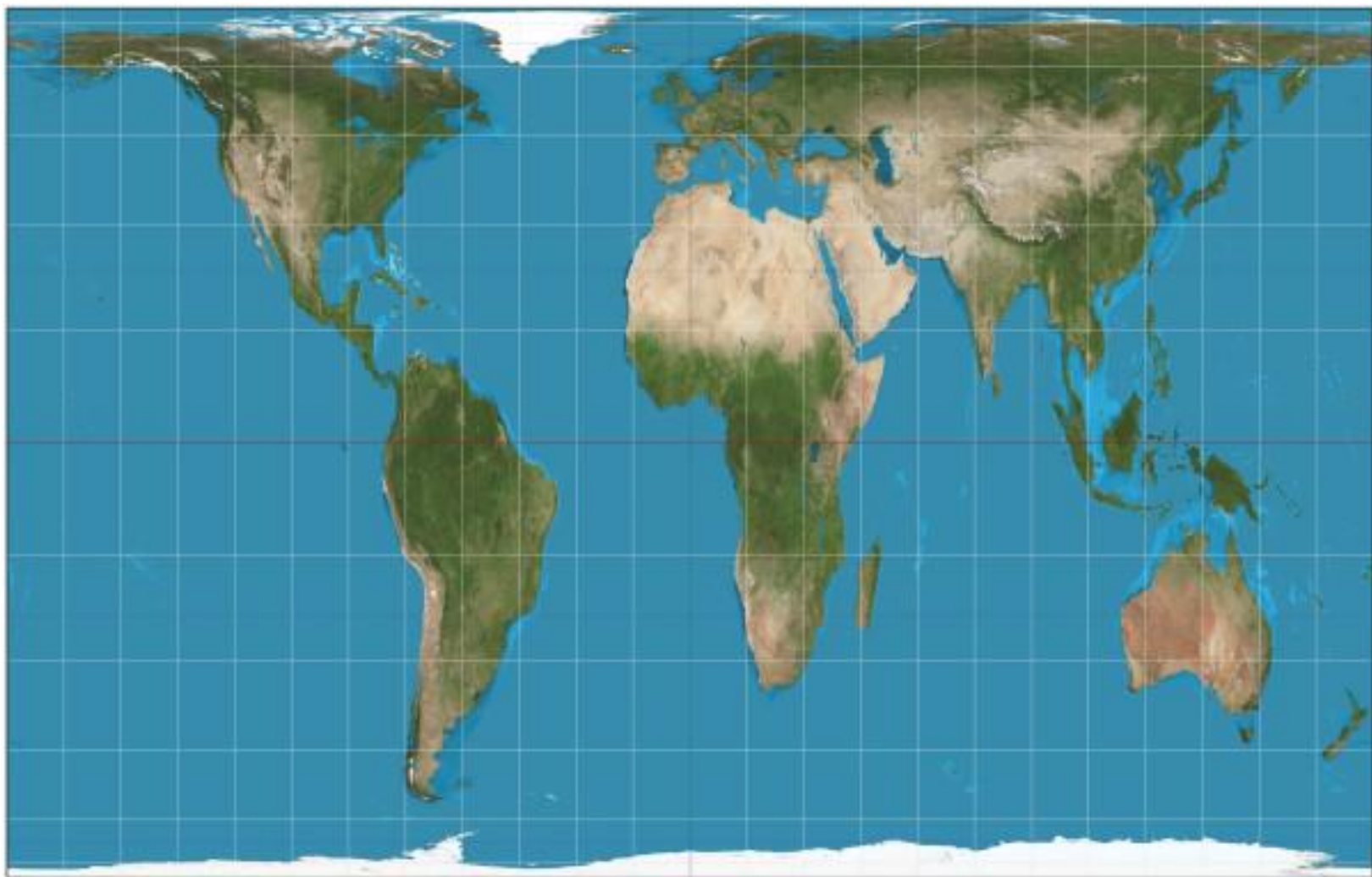
Projeções Cartográficas



Conformidade



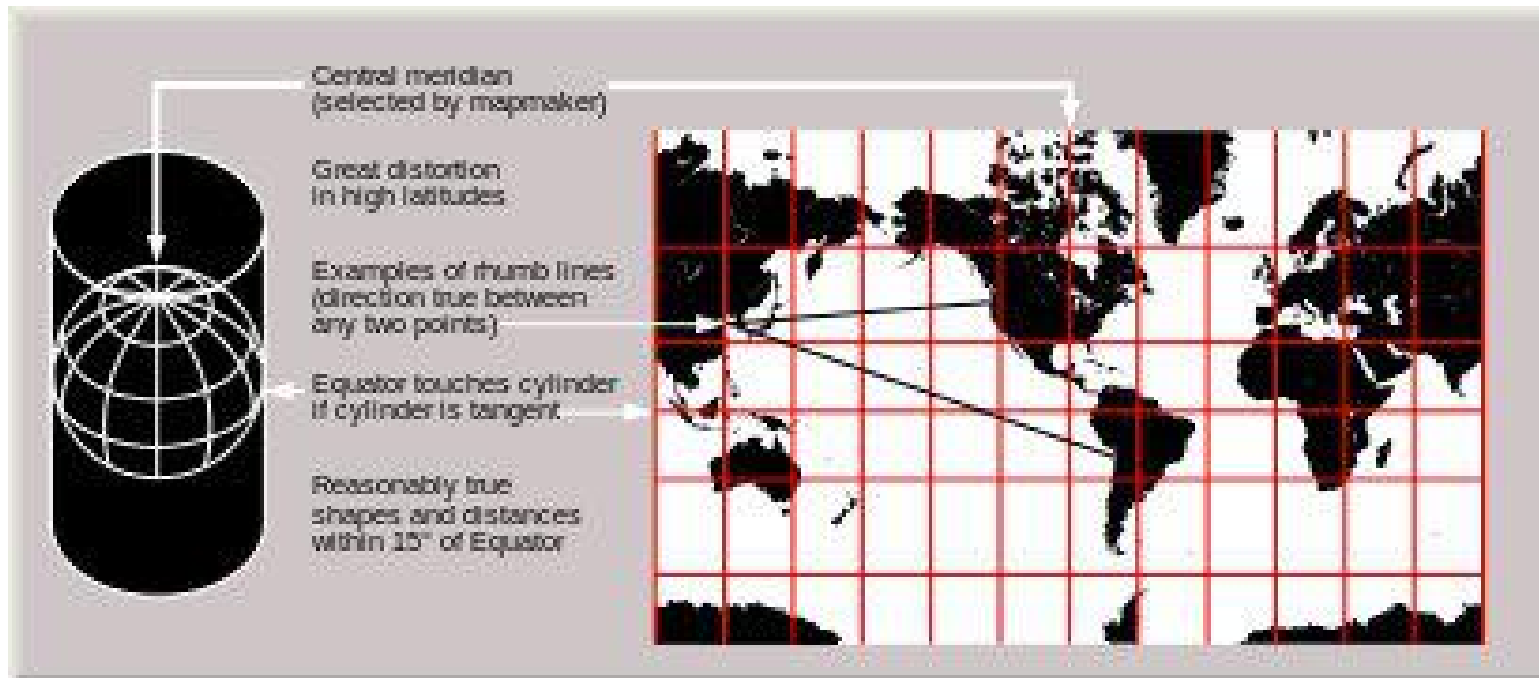
Equivalência



Equidistância

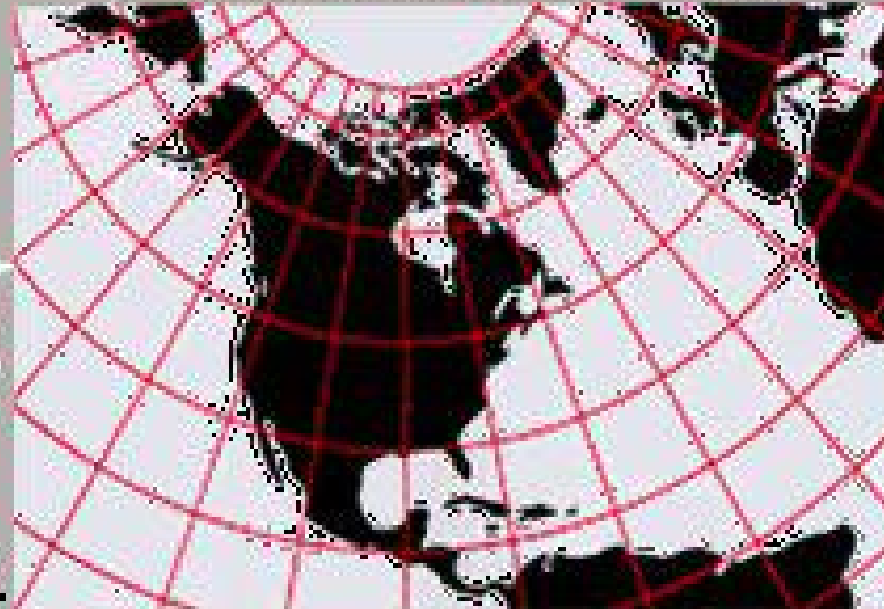
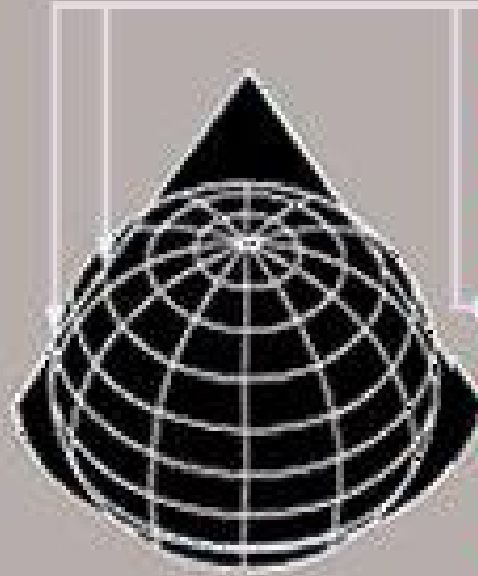


Superfícies de Projeção



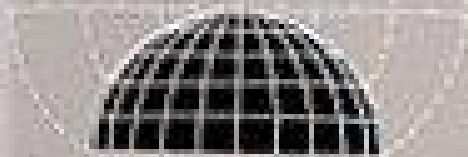
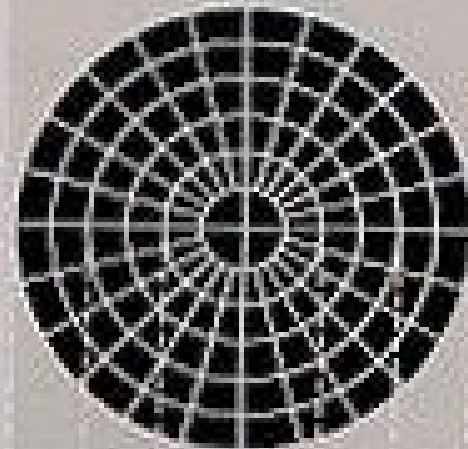
Two standard parallels define the map layout.

(selected by mapmaker)



Areas equal to globe.

Deformation of shapes increases away from those parallels.



Plane
of projection

Equator



Pole—
Mapmaker selects
North or South Pole

Contexto

Leitor?

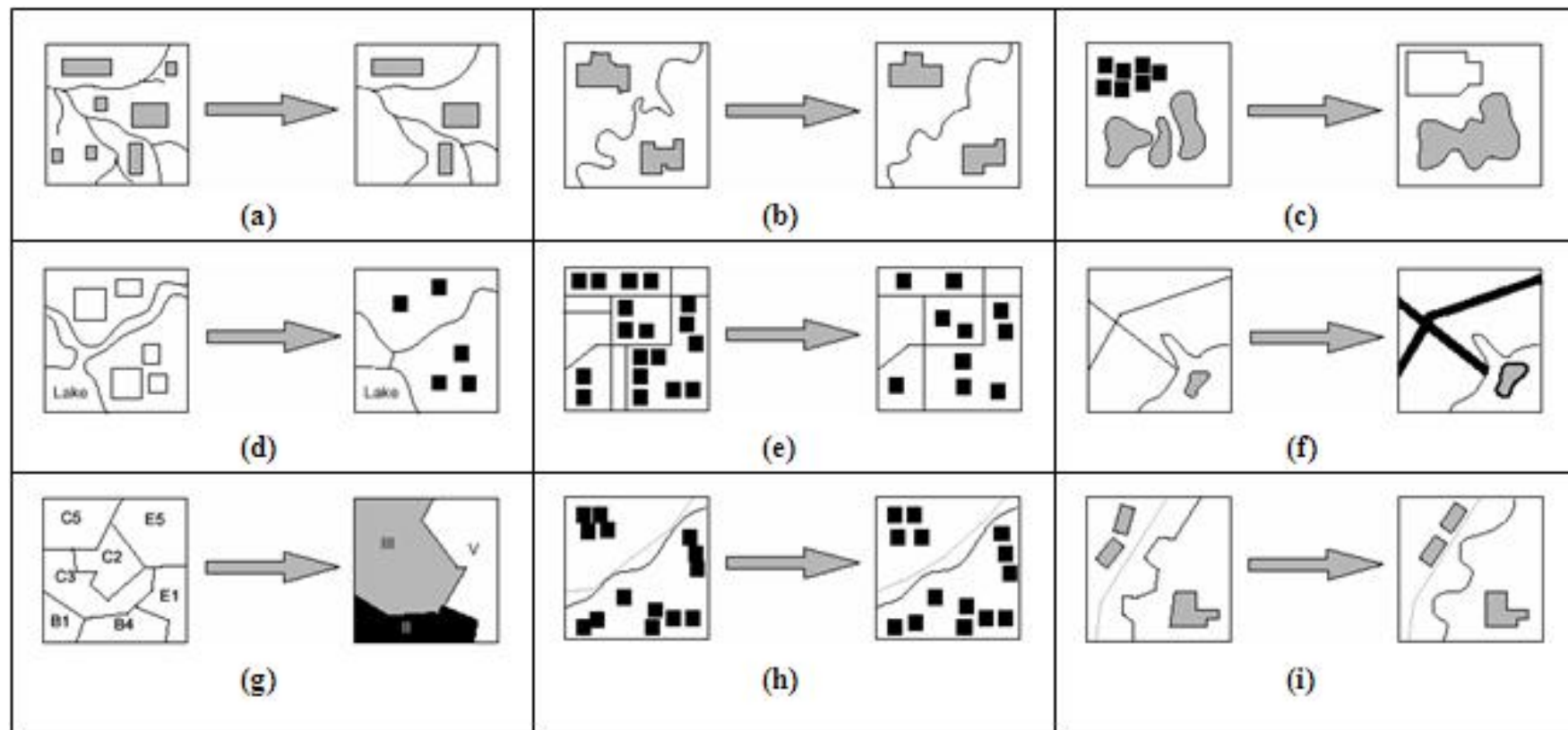
Propósito?

Onde será usado?

Em qual mídia?

Seleção, abstração e generalização





Atributos

Espaciais
Temporais
Temáticos

Escala

Grande x Pequena

Medida das Variáveis

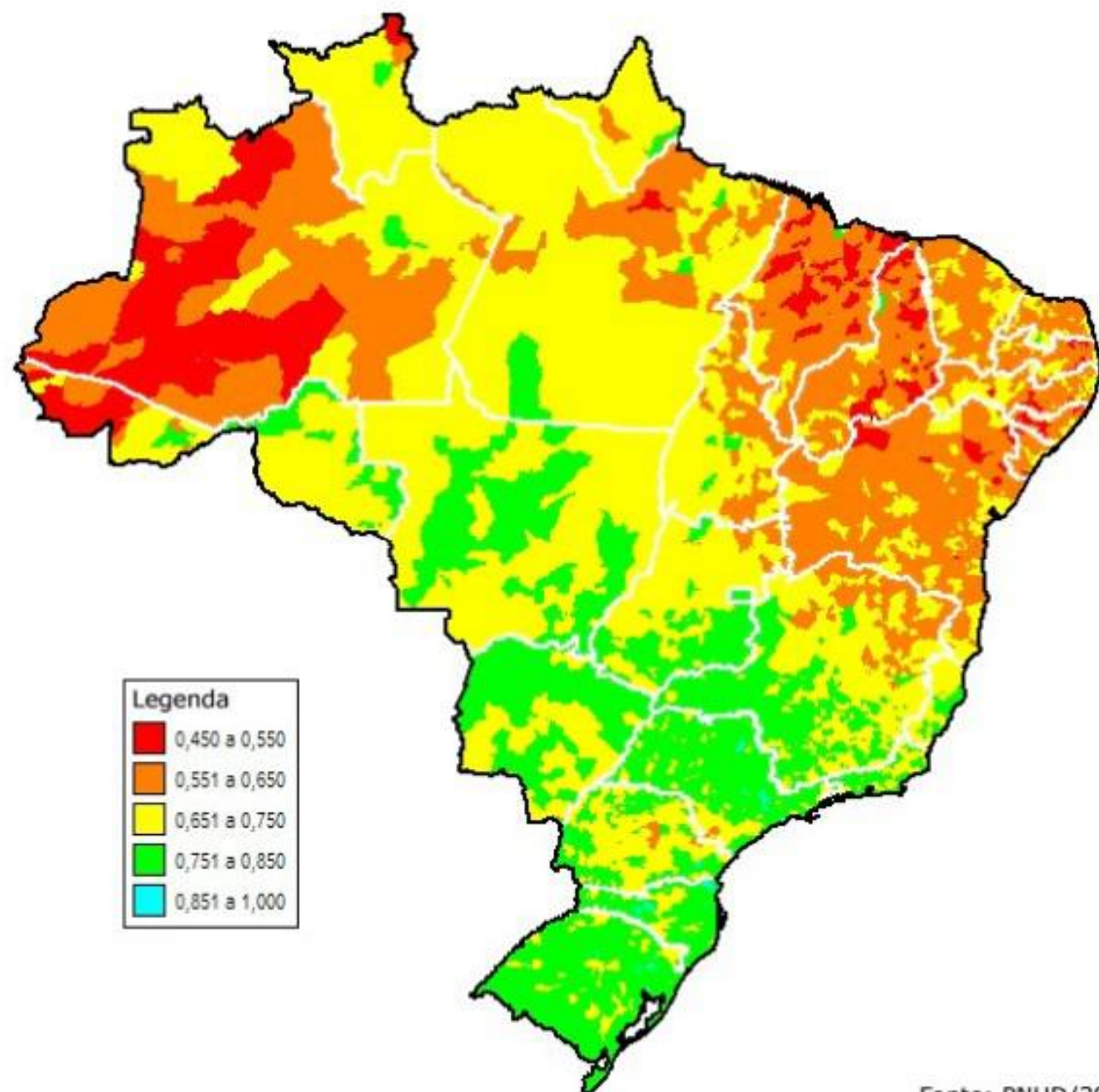
Nominal



Ordinal

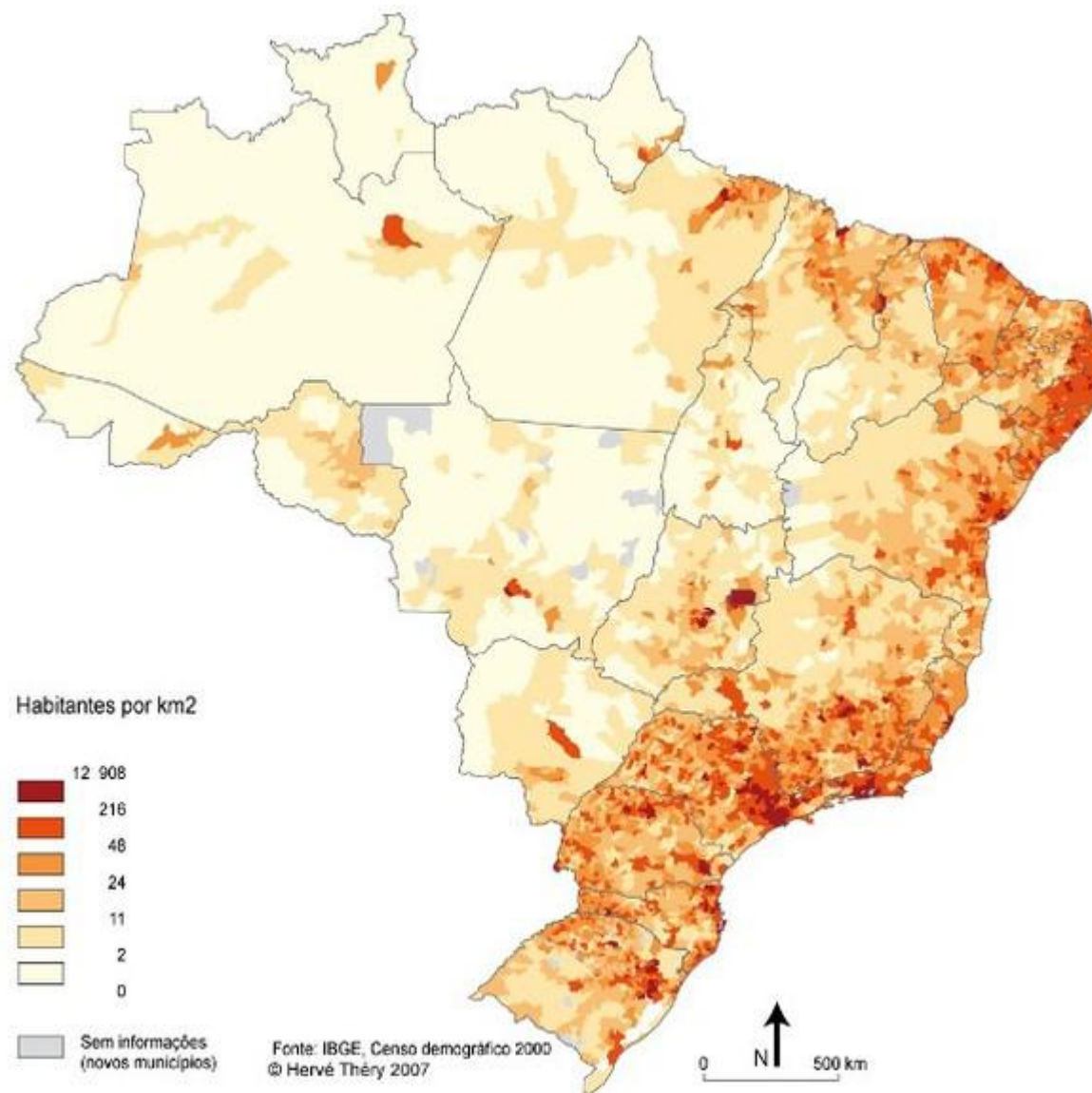


Intervalar



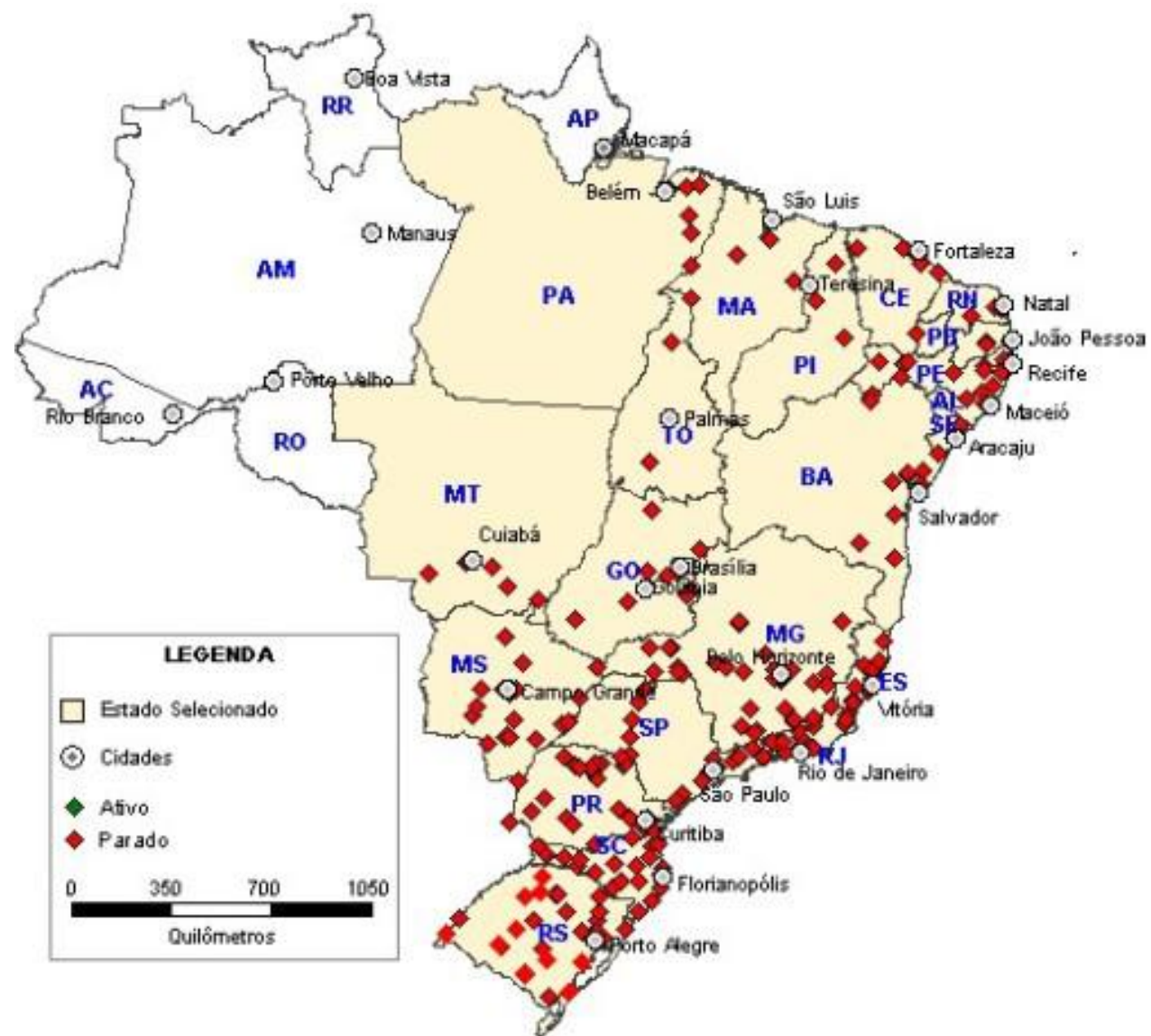
Fonte: PNUD/2000

Proporcional



Símbolos para Representação Cartográfica

Ponto



Linha

Mapa Ferroviário

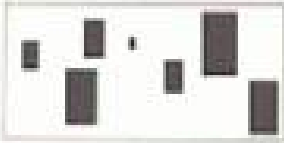

























INSTITUTO DE GEOGRAFIA
1984

Ministério dos Transportes

Área

Variáveis Visuais ou Gráficas

	ponto	linha	area
tamanho			
valor			
tom			
saturation			
orientacao			
forma			
arranjo			
textura			

Componentes Visuais

Título

Legenda

Orientação

Escala

Inserções e Mapas de Fundo

**Textos dentro
dos mapas**

Fauna ameaçada de extinção

Mamíferos, répteis e anfíbios 2010



Fluxo para Projeto Cartográfico

Passo 1

(Objetivo)

Passo 2

(Generalização)

Passo 3

(Realização Gráfica)

Passo 4

(Generalização Gráfica)

Passo 5

(Avaliação/Ajustes)

Cartografia Moderna

Onipresente
Tempo real
Adaptável (mídias)
Personalizado
Amigável (design)

Mapa em 1 minuto

Satisfatório?

**Cartógrafo:
Técnico e/ou Artista?**

Perguntas???



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Avaliação

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Curso Online: Introdução à Cartografia

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1ª SSM



Obrigado!