

Mapping Brazil in 1:250,000 scale

João Bosco de Azevedo

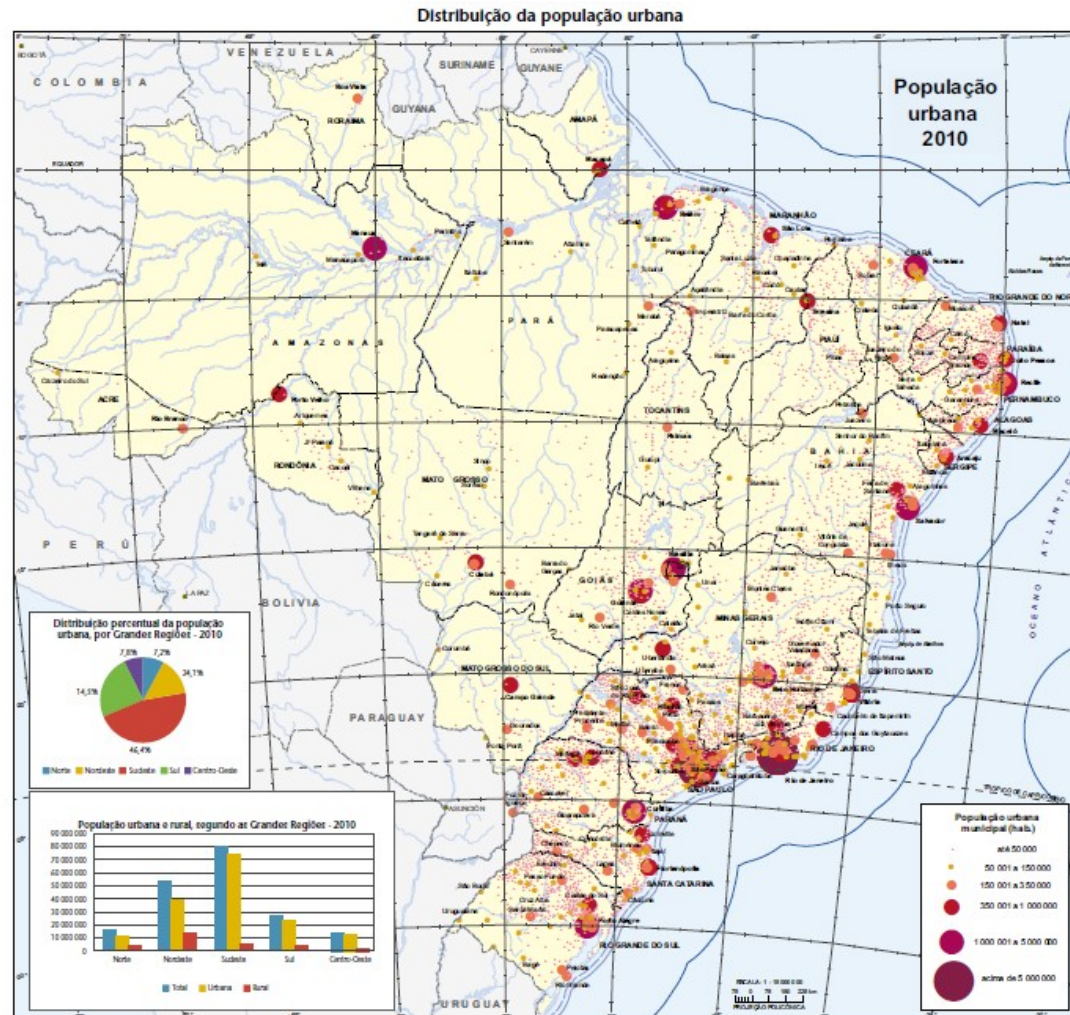
The Brazilian territory attracts attention because of its area, the fifth largest area of the world. It comprises **8,514,876,99 km²** that go the equatorial zone until the subtropical zone of South America, occupying half of the continent and bordering most of its countries.

The size, shape and position of the territory provide the country with a long Atlantic border of more than **7,000 km** and more than **15,000 km** of international terrestrial frontier.



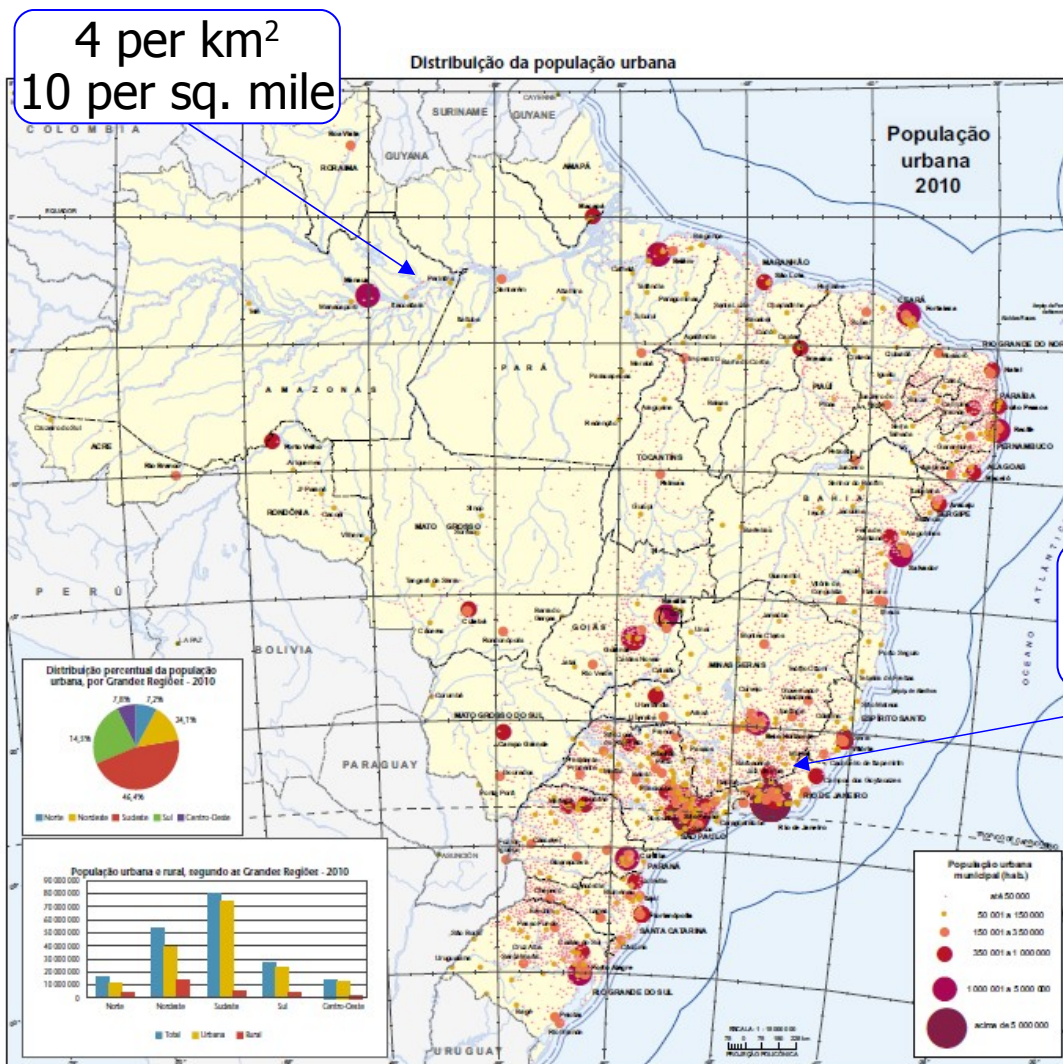
Brazil in figures

Brazil is one of the most populous countries in the world, with over **190 millions** people according to Census 2010, and its population density is relatively low, just over **22 per km²** (57 per sq. Mile).



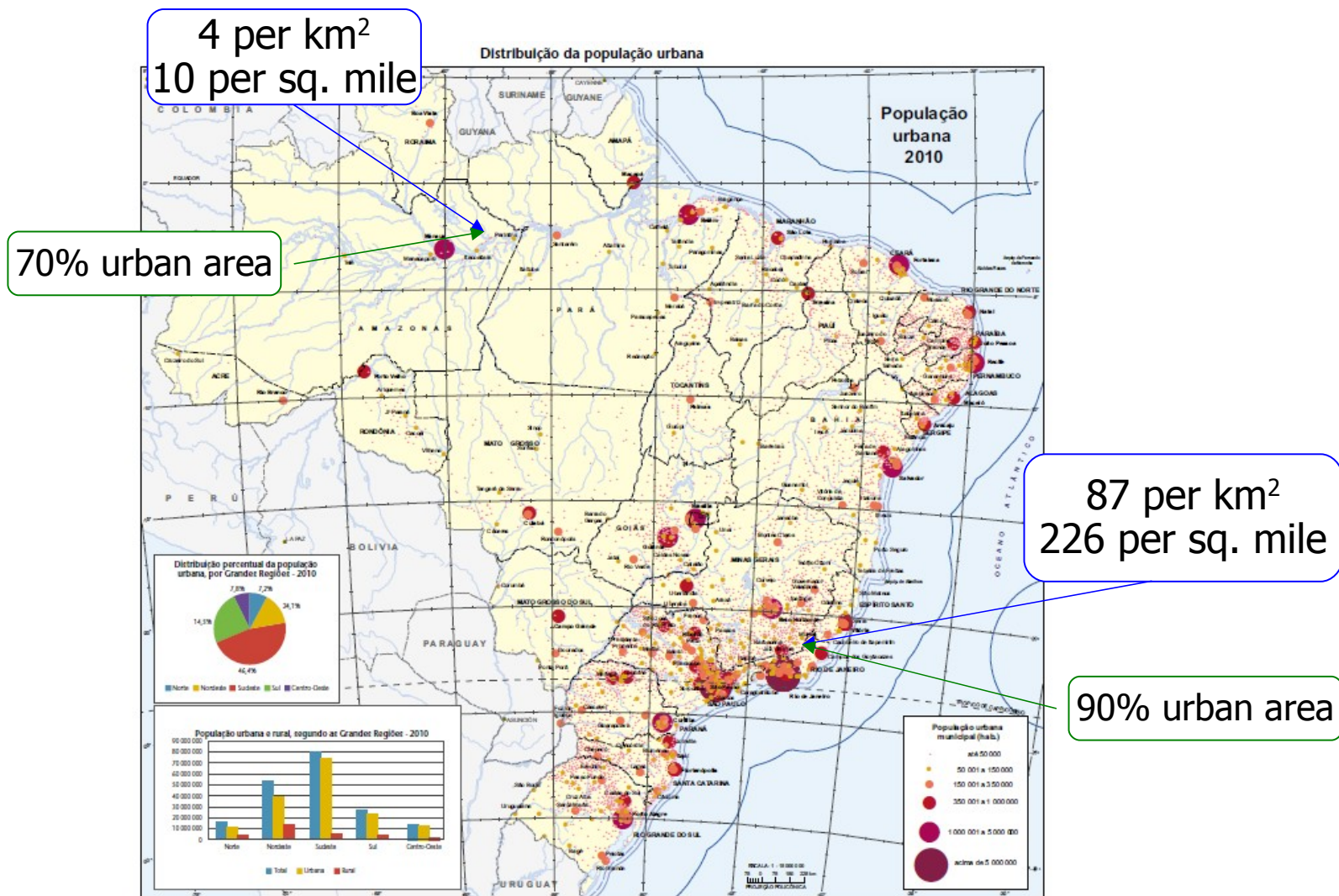
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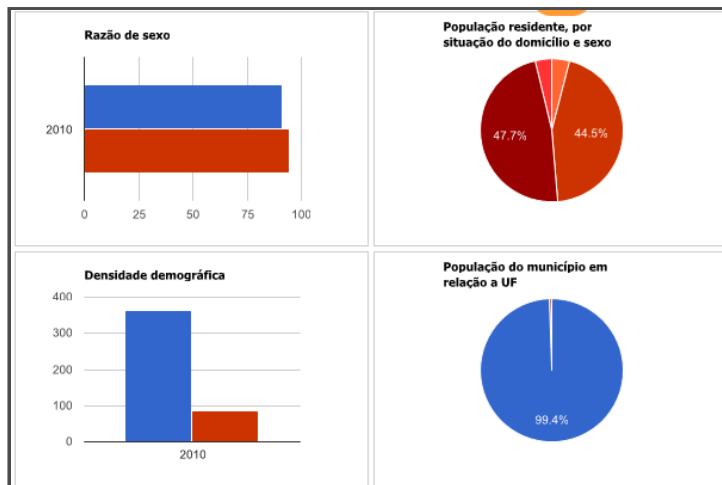


“To portray Brazil by providing the information required to the understanding of its reality and the exercise of citizenship”

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Responsible for surveys and statistical works related to the demographic, social, environmental, economic and administrative status of the country

	URBANA (absoluto)	RURAL (absoluto)	URBANA (percentual)	RURAL (percentual)
Brasil	160.879.708	29.852.986	84,35	15,65
Região Norte	11.663.184	4.202.494	73,51	26,49
Região Nordeste	38.816.895	14.261.242	73,13	26,87
Região Sudeste	74.661.877	5.691.847	92,92	7,08
Região Sul	23.257.880	4.126.935	84,93	15,07
Região Centro-Oeste	12.479.872	1.570.468	88,82	11,18

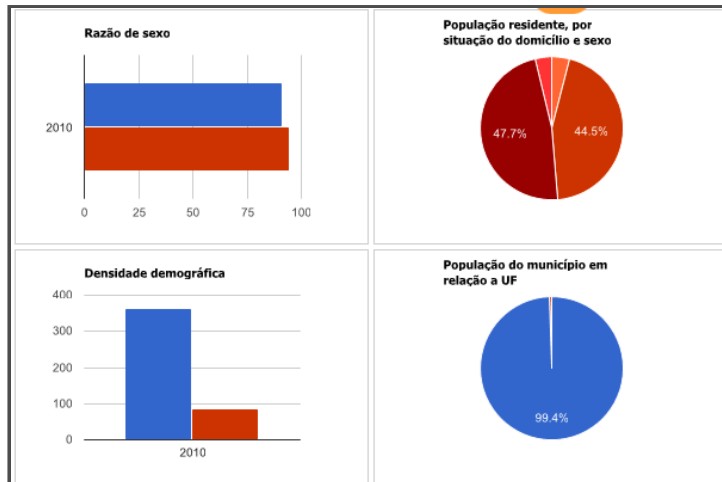


“To portray Brazil by providing the information required to the understanding of its reality and the exercise of citizenship”

Responsible for surveys and statistical works related to the demographic, social, environmental, economic and administrative status of the country

Responsible for the production and systematization of information related to cartography, geodesy, geography, natural resources and environmental affairs

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The close integration of geographic information in statistical applications yields large benefits to NSOs as it reduces the cost and time required to collect, compile and distribute statistical information, and leads to a greater number of services and a much wider use of statistical information, thereby considerably increasing the return on investment in data collection.

Geographic
Information



Statistical
Applications

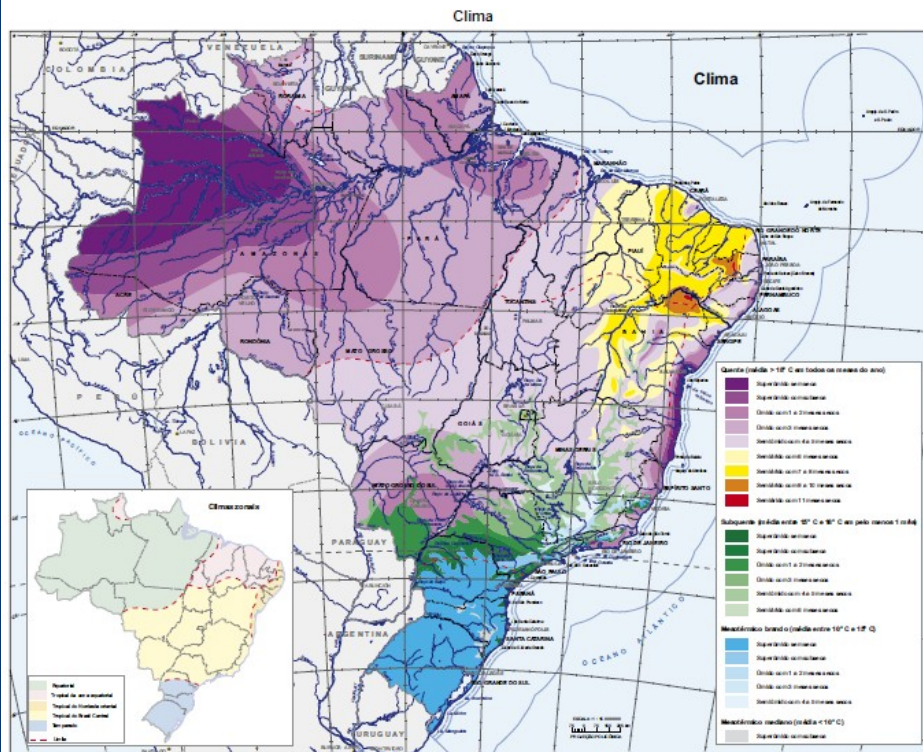


IBGE = Geographic Information + Statistical Information

Applications: Censuses/Spatial Data Infrastructures

IBGE holds a significant amount of data on natural resources, stored in a database configured to allow the generation of derived data which can be valuable to the management of such resources and the evaluation of environmental quality.

Systematization of natural resources informations encompasses permanent activities aimed at updating the thematic maps in the fields of Geology, Geomorphology, Soils, Vegetation, Water Resources and Climate, building integration of georeferenced databases on natural resources.



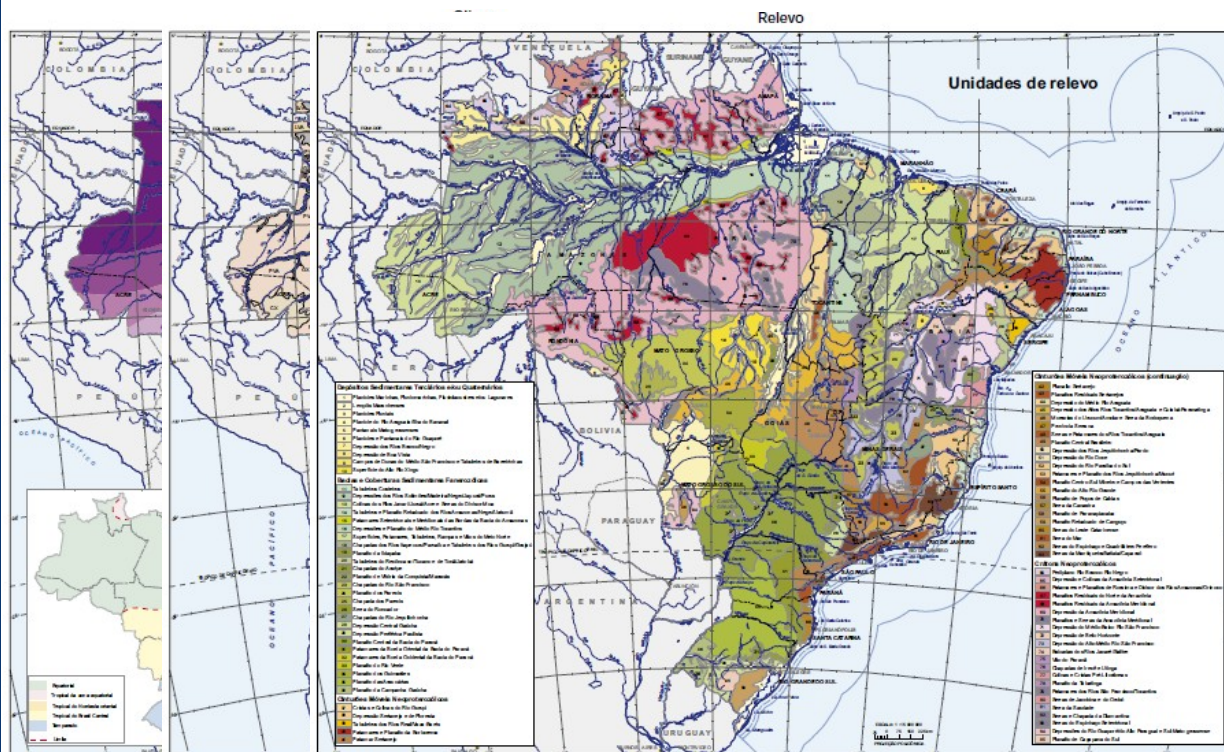
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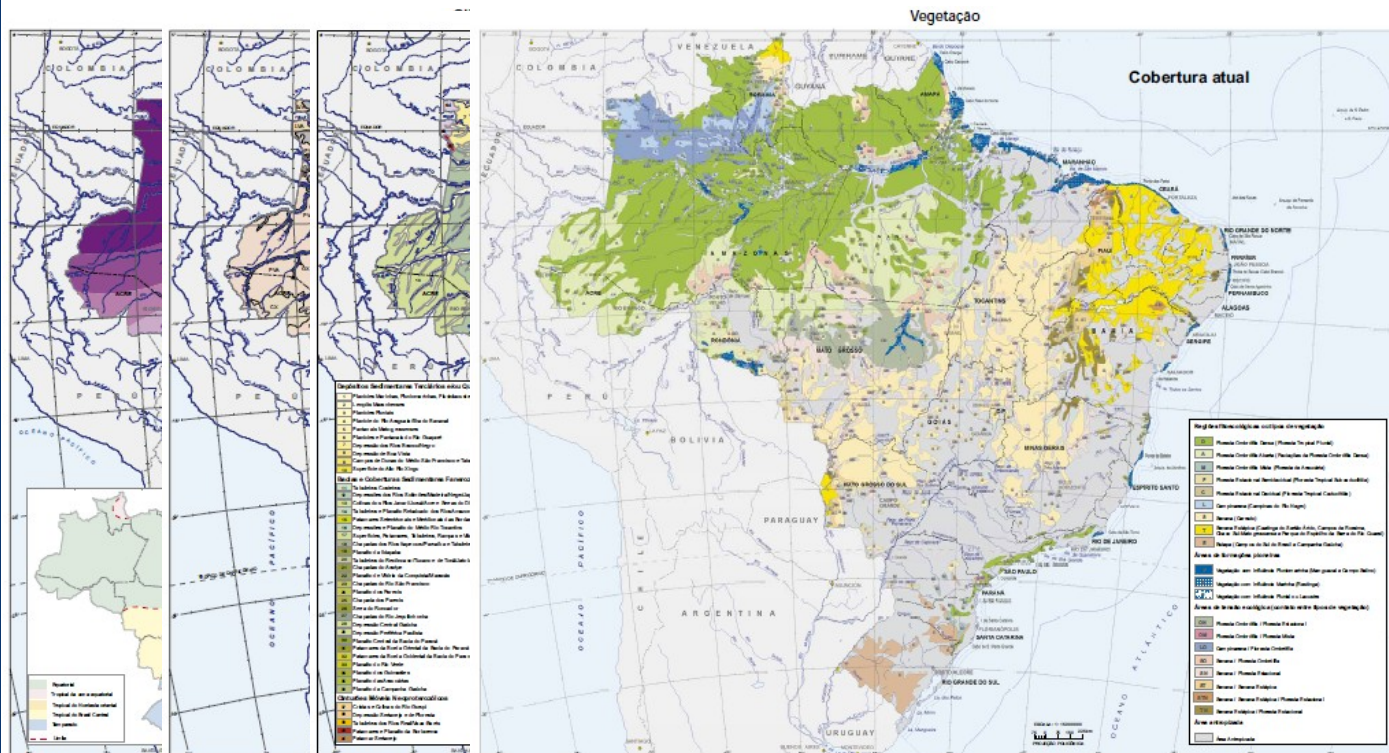
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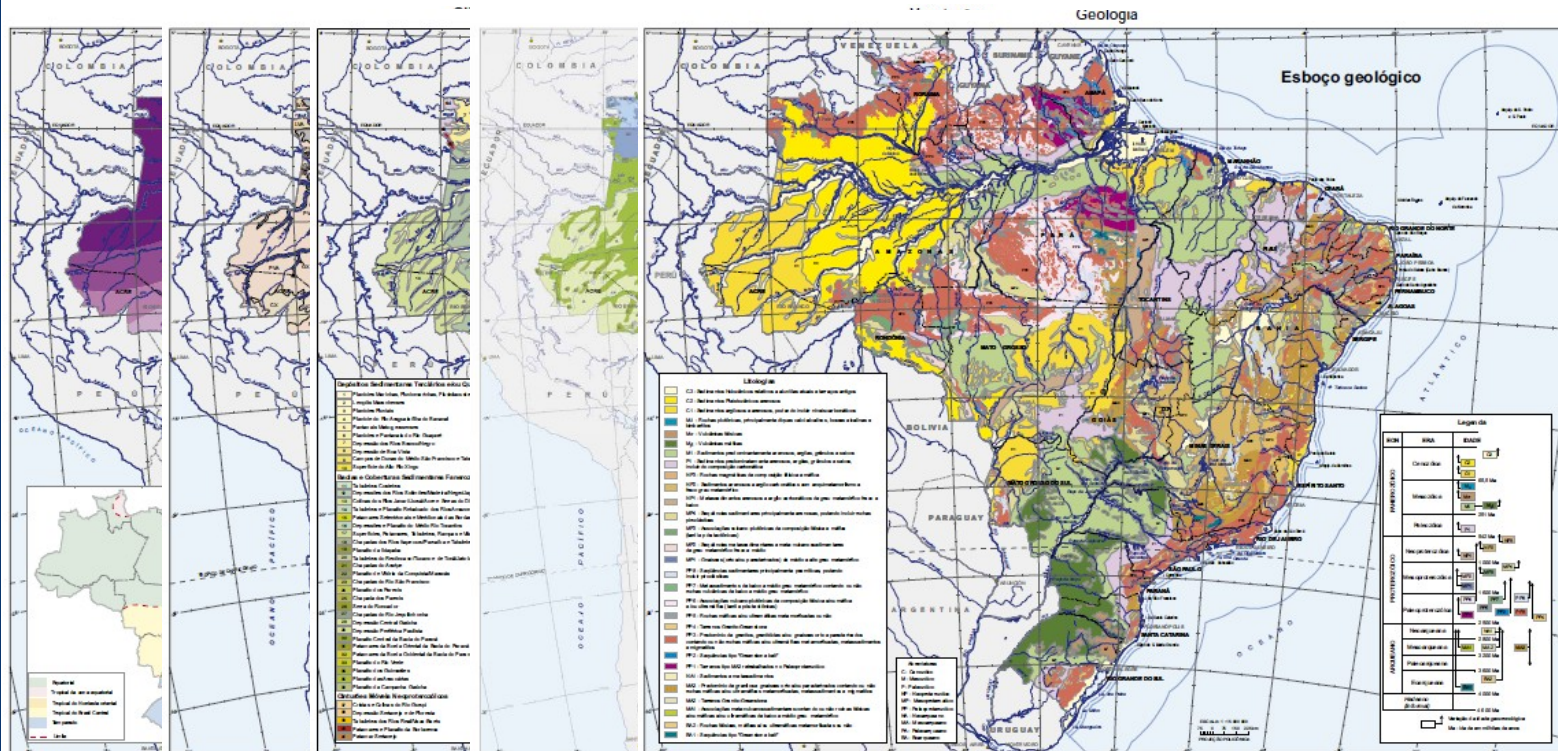
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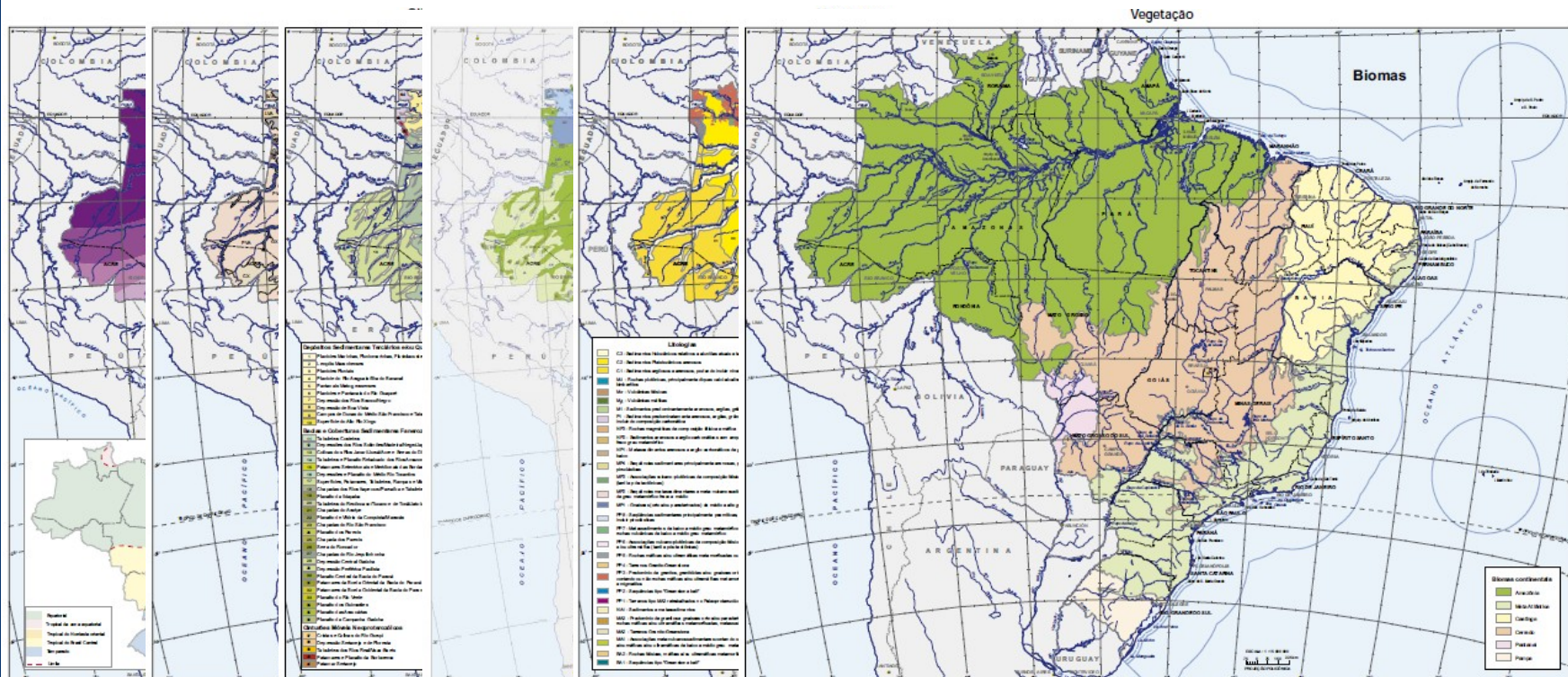
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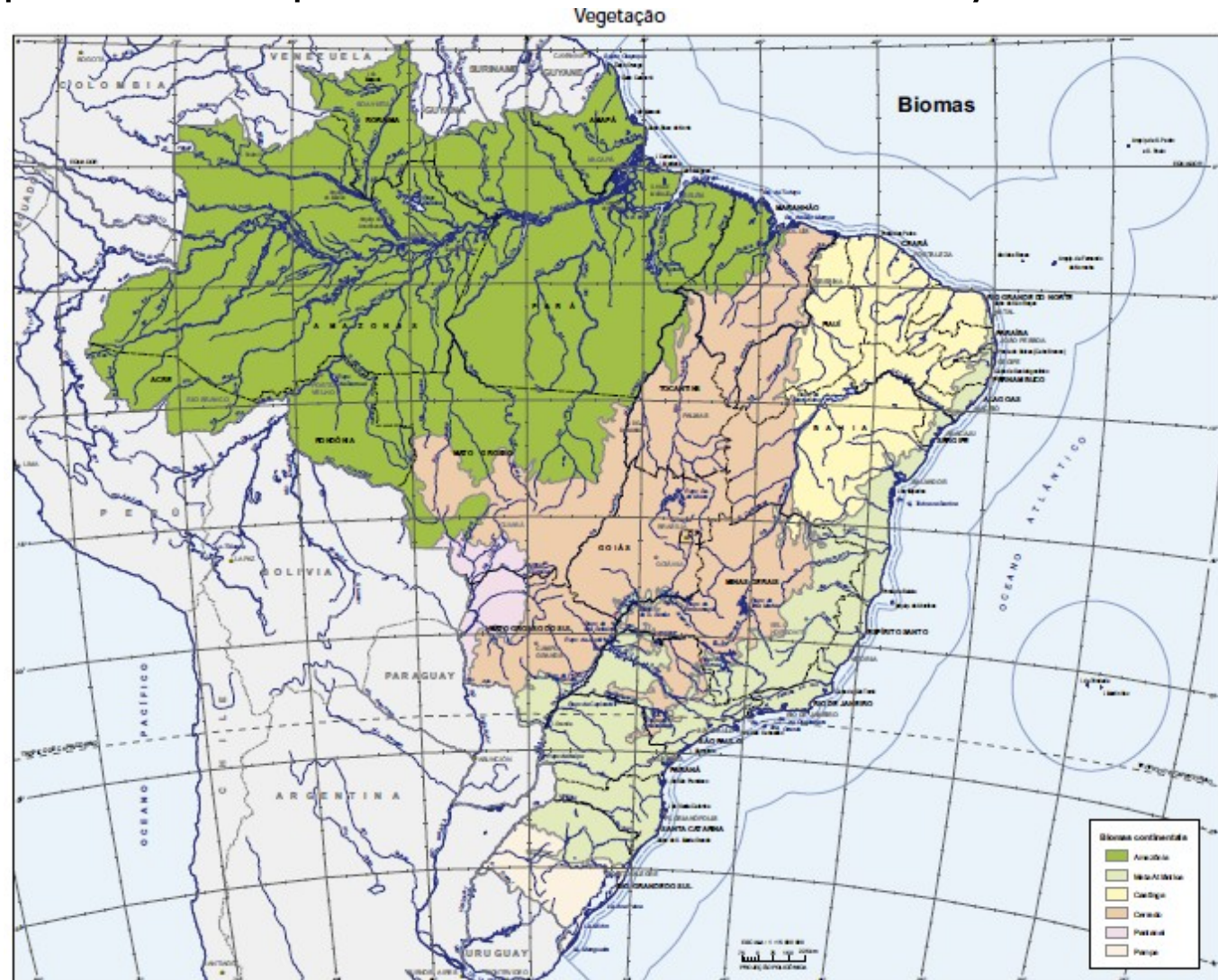


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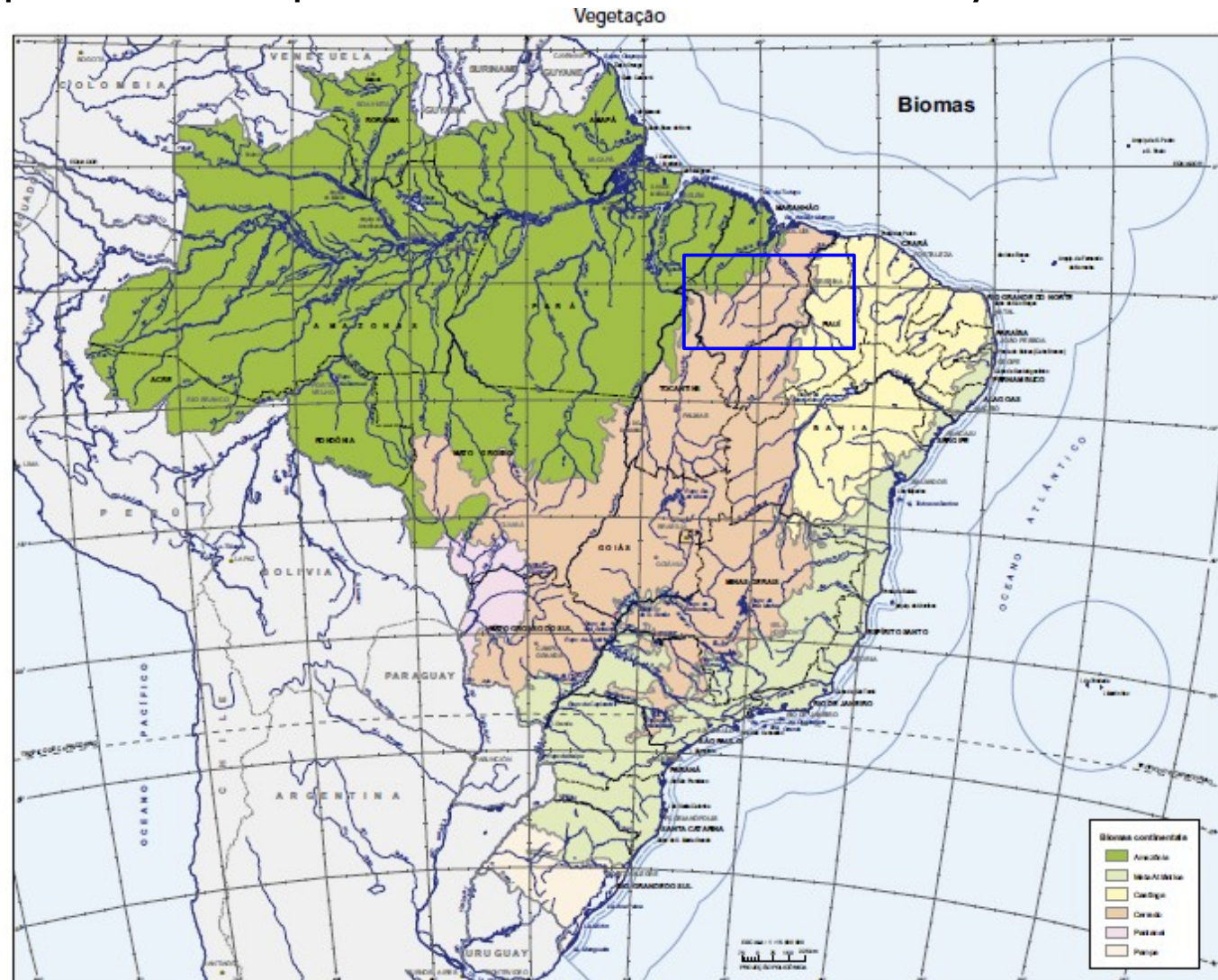
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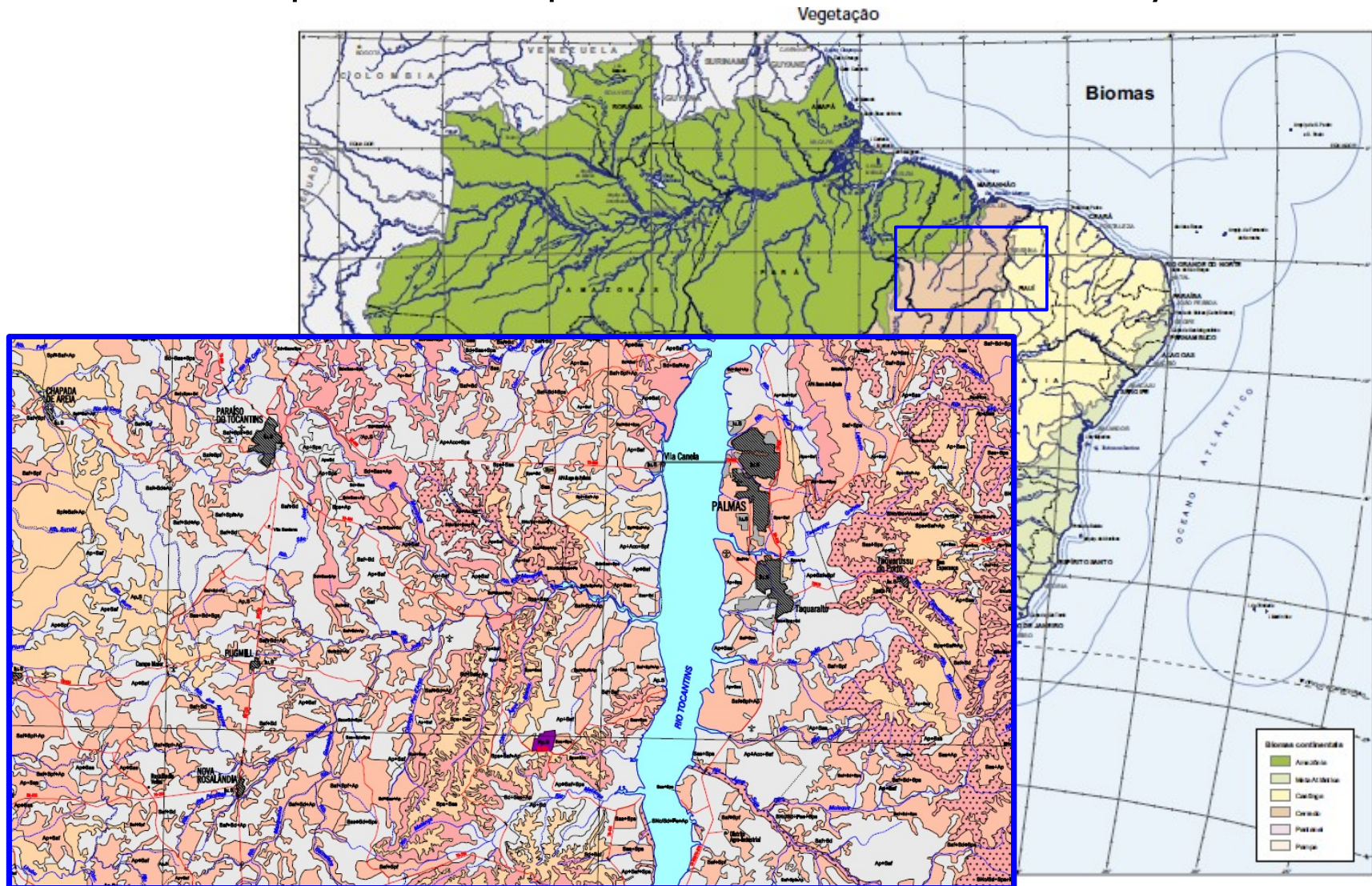
These informations are available in the atlas produced by IBGE and in the maps of Brazil at 1:5,000,000 scale. For environmental studies are also provided maps with more detail and accuracy.



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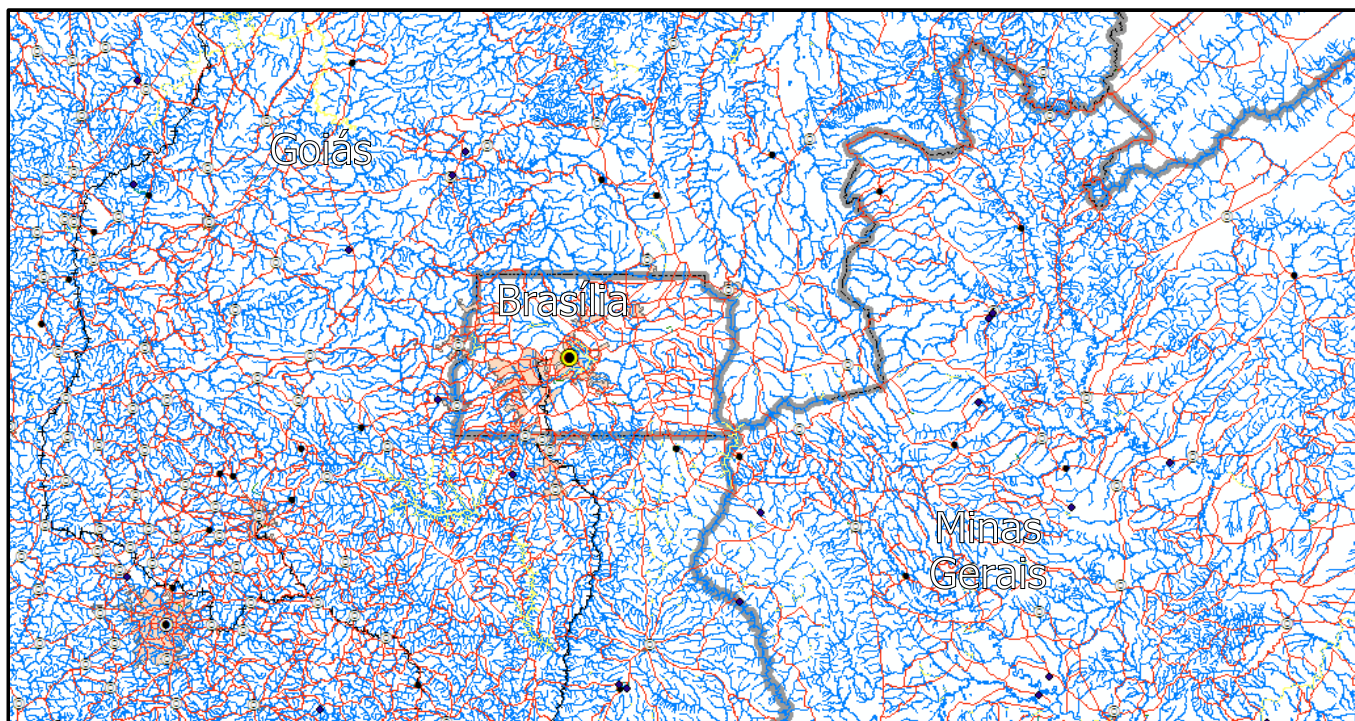


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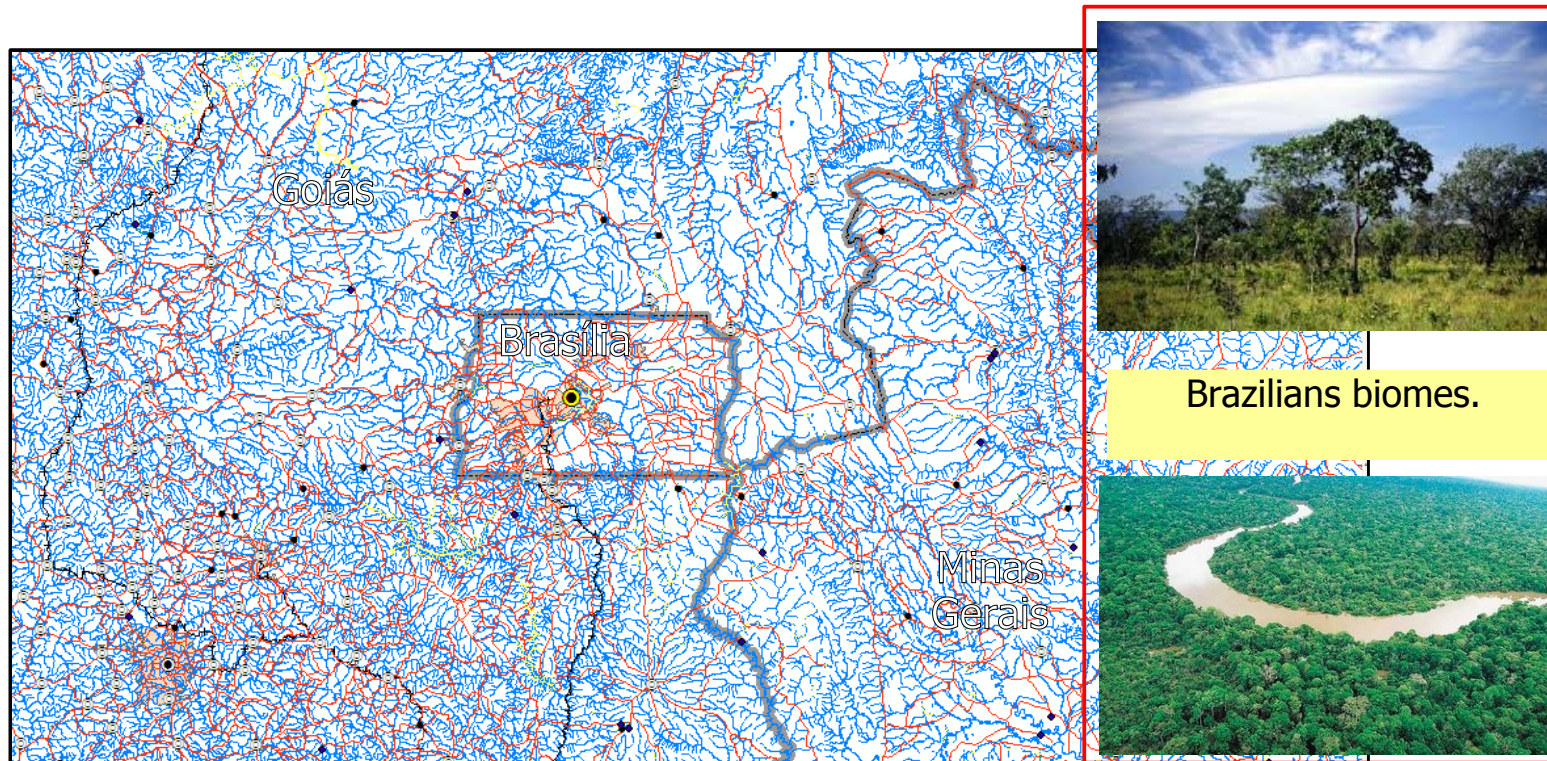
The necessity of updating Brazilian maps in the 1:250,000 scale was defined in VI National Geography and Cartography Conference (CONFEGE), conducted in 2006 by the IBGE.

The BC250 project aims to provide society with mapping of the entire Brazilian territory at 1:250,000 scale through a continuous digital cartographic base, compatible with the accuracy requirements of the National Cartographic System (SCN) and the appropriate standards of National Spatial Data infrastructure (NSDI).



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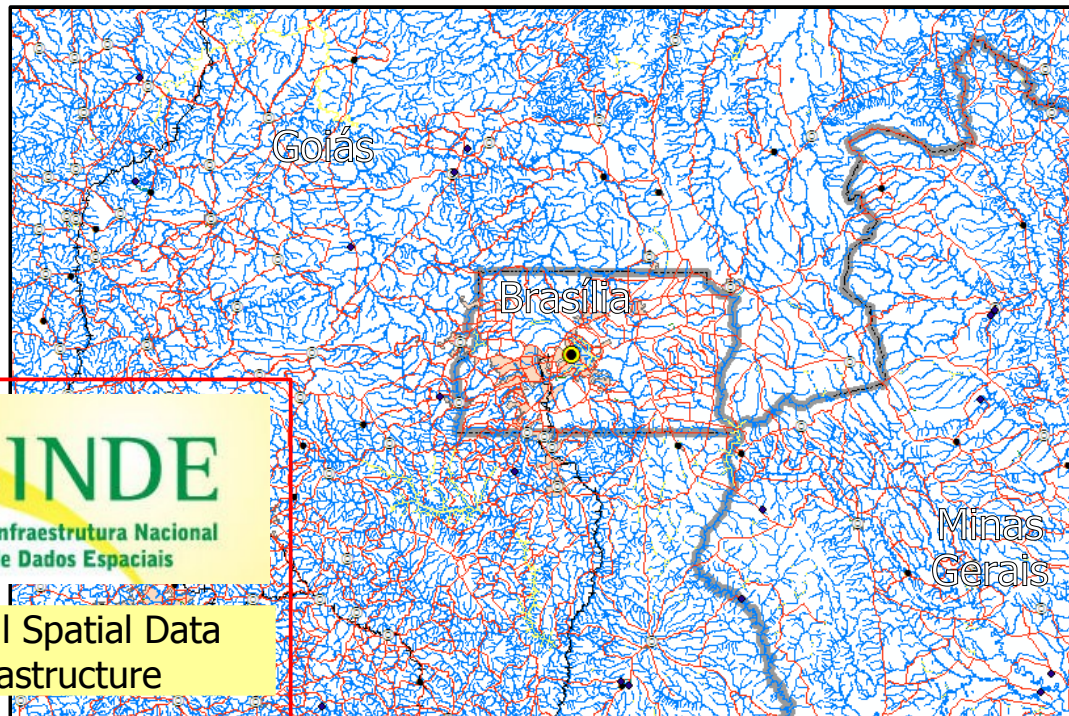
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Mapping Brazil in 1:250.000 scale (BC250)

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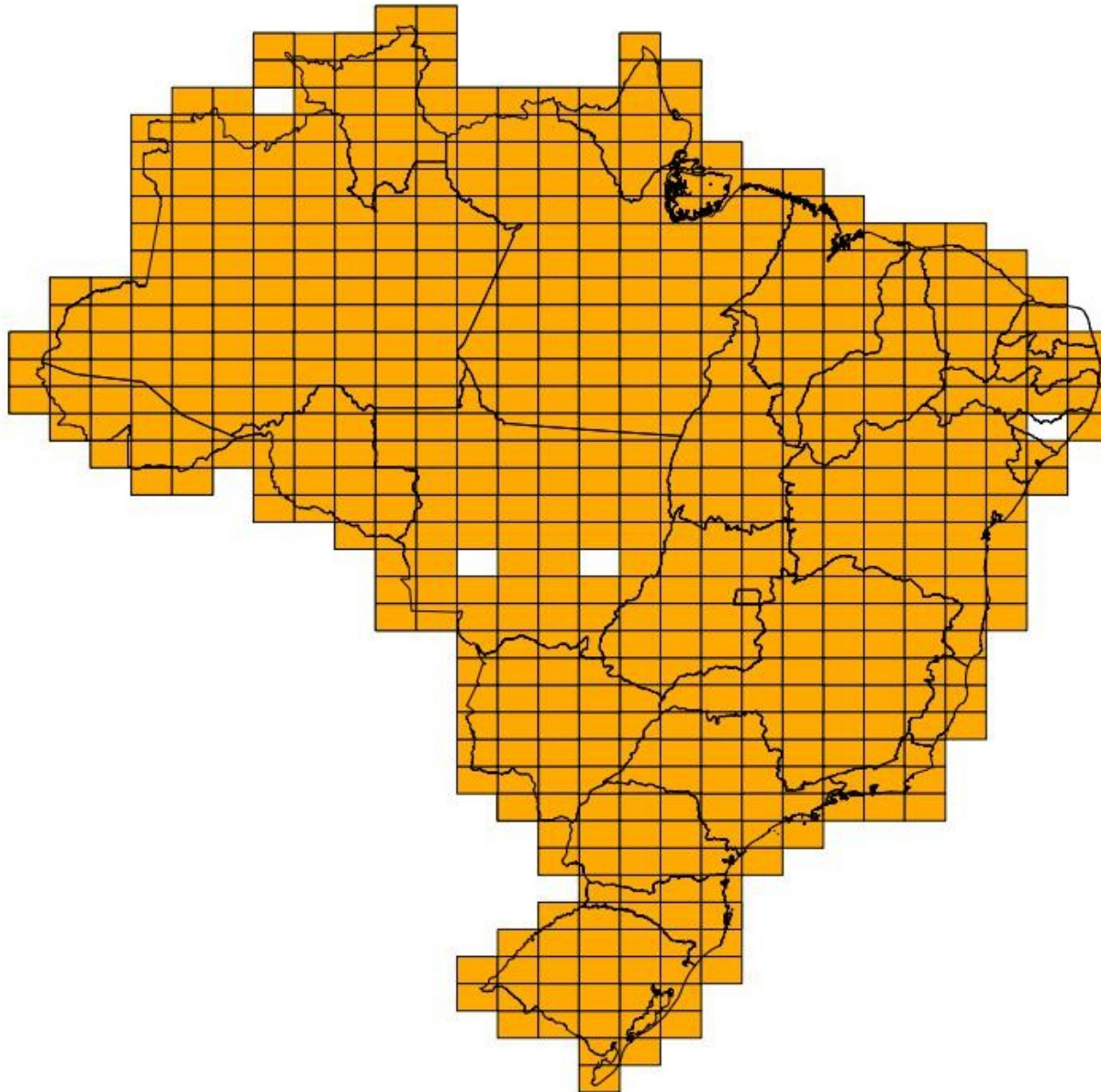
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Brazilians biomes.

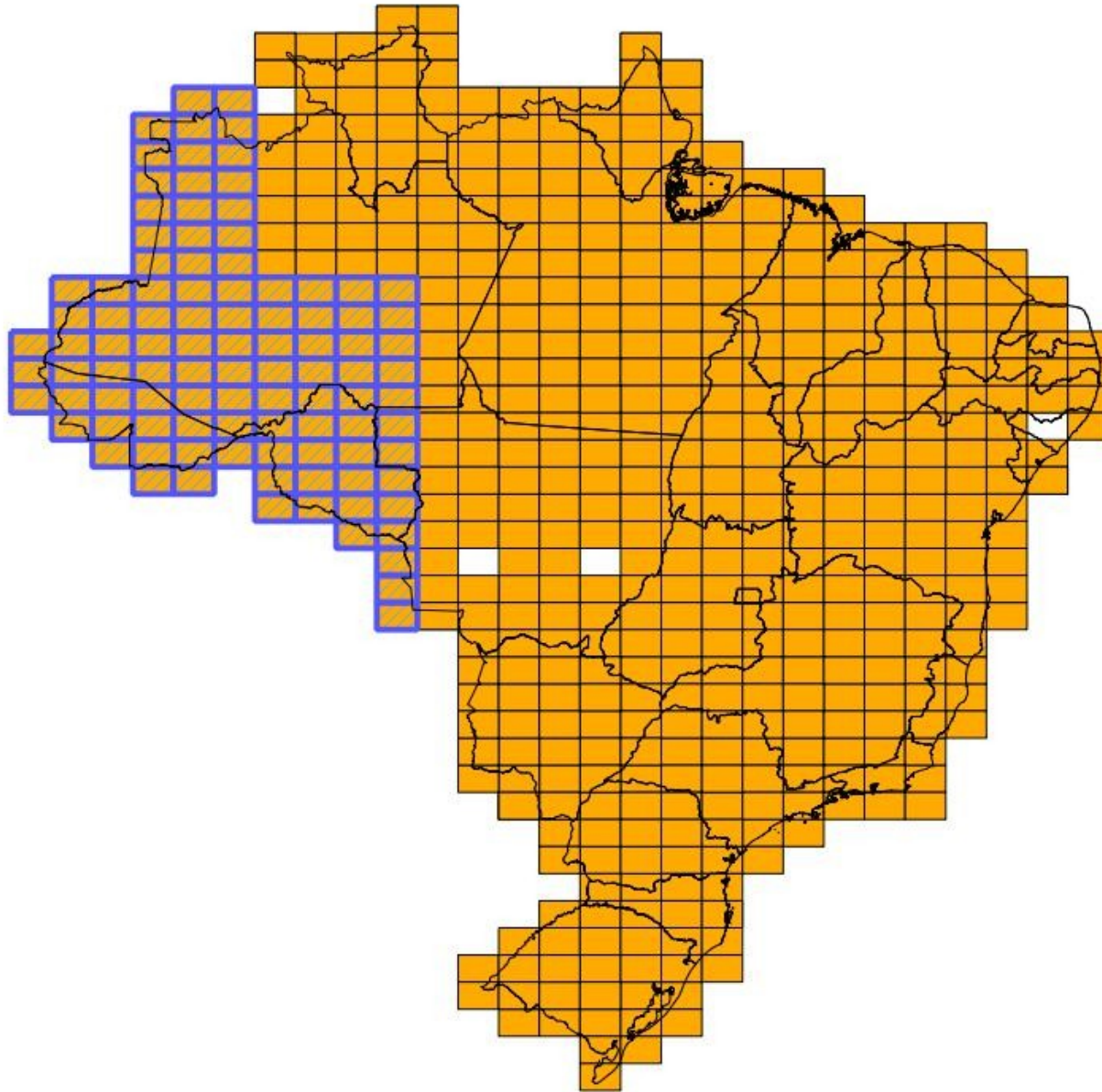


Schedule production



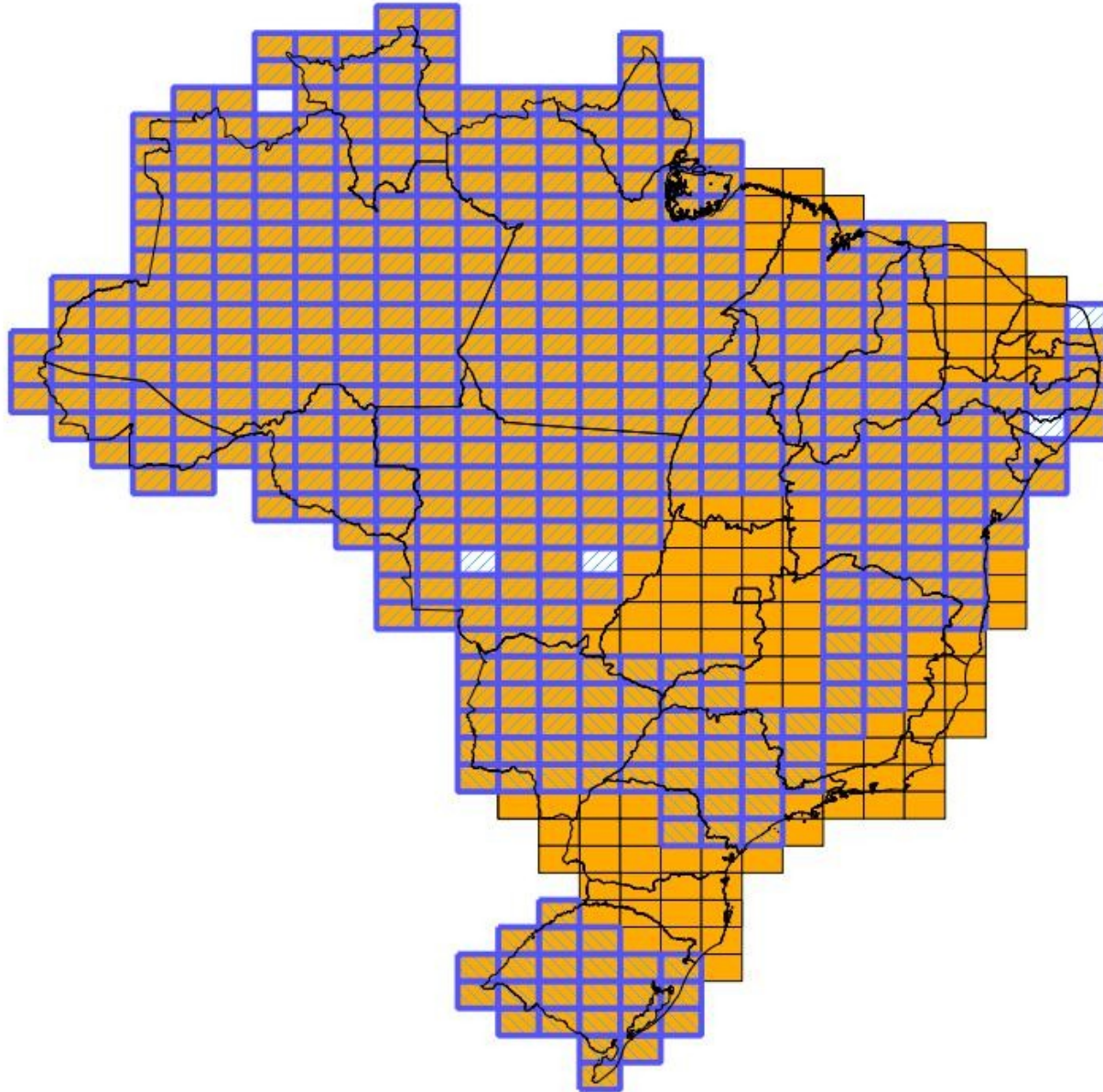
Schedule production

2008

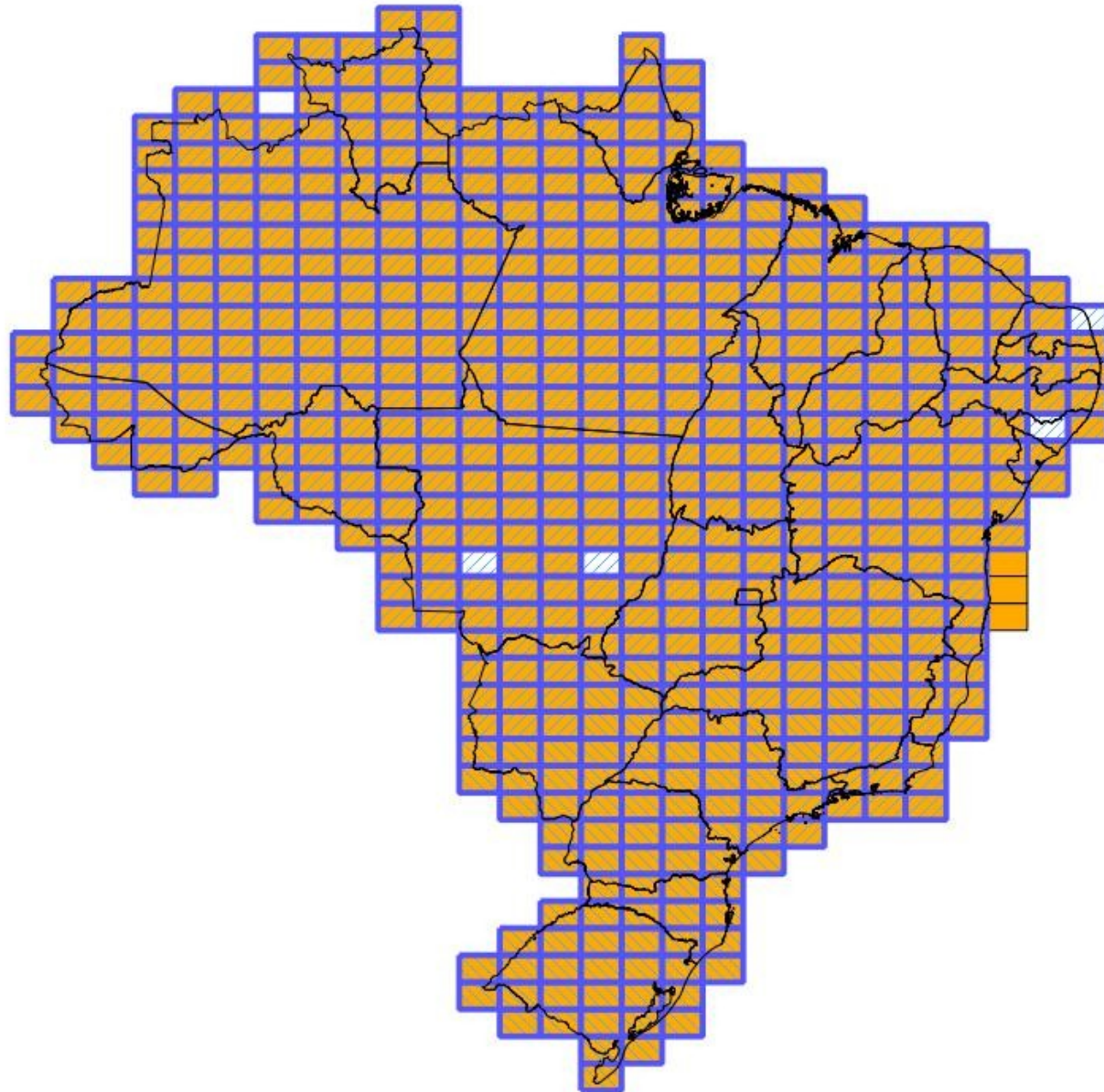


Schedule production

2008
2009

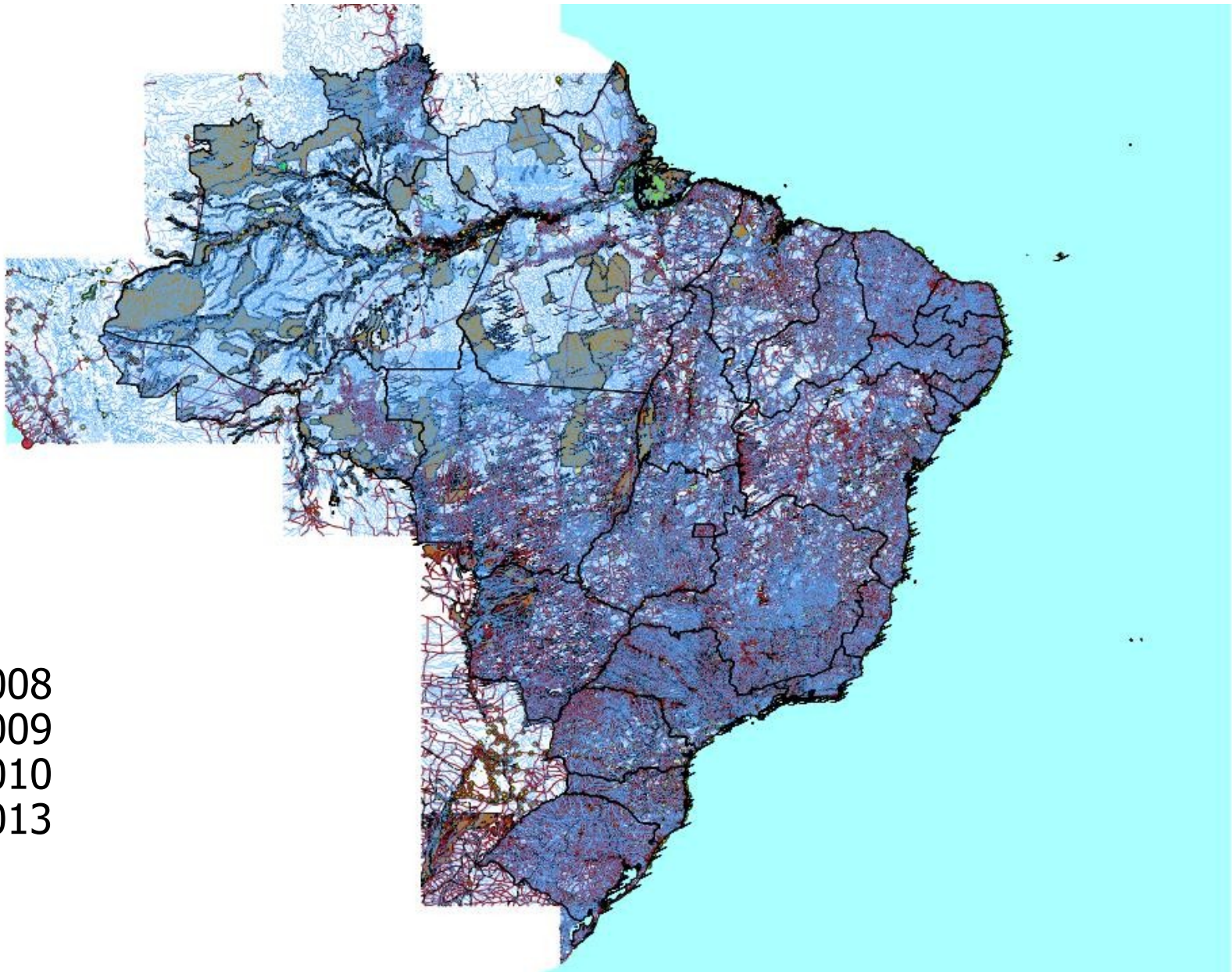


Schedule production



2008
2009
2010

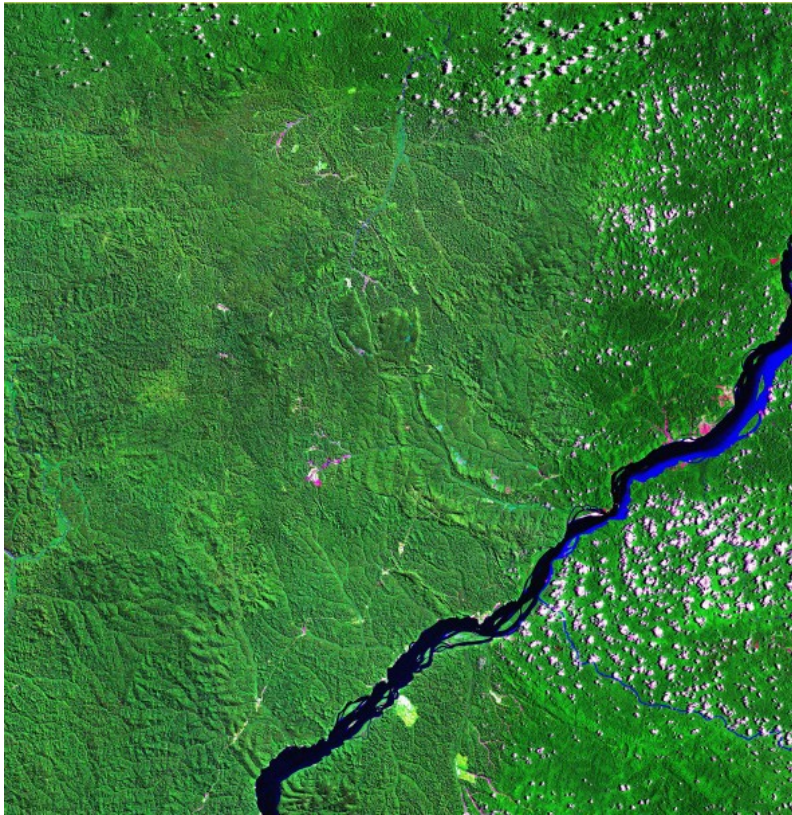
Schedule production



2008
2009
2010
2013

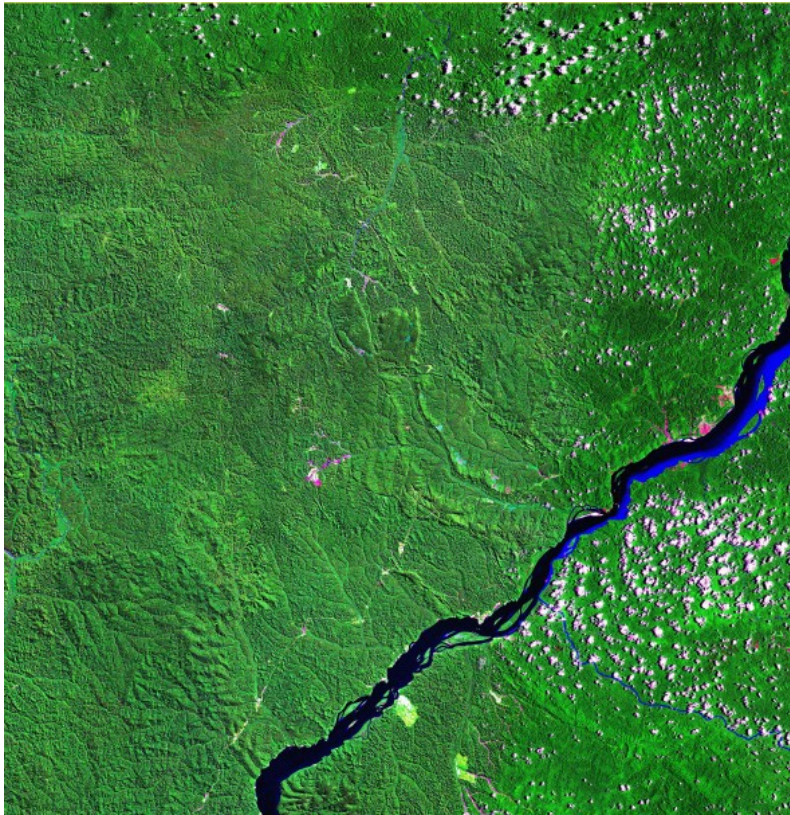
The surveys and updates of mapping features are based on Landsat TM images with 30m spatial resolution. The sensor was chosen as it covers the whole territory. Where the images had 20% clouds' coverage, CBERS images were used.

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Landsat TM



CBERS

The images were orthorectified using Digital Terrain Model (SRTM 90 m) and control points. The images accuracy is below 125m in planimetry and 50m in height. All information is referred to SIRGAS2000.

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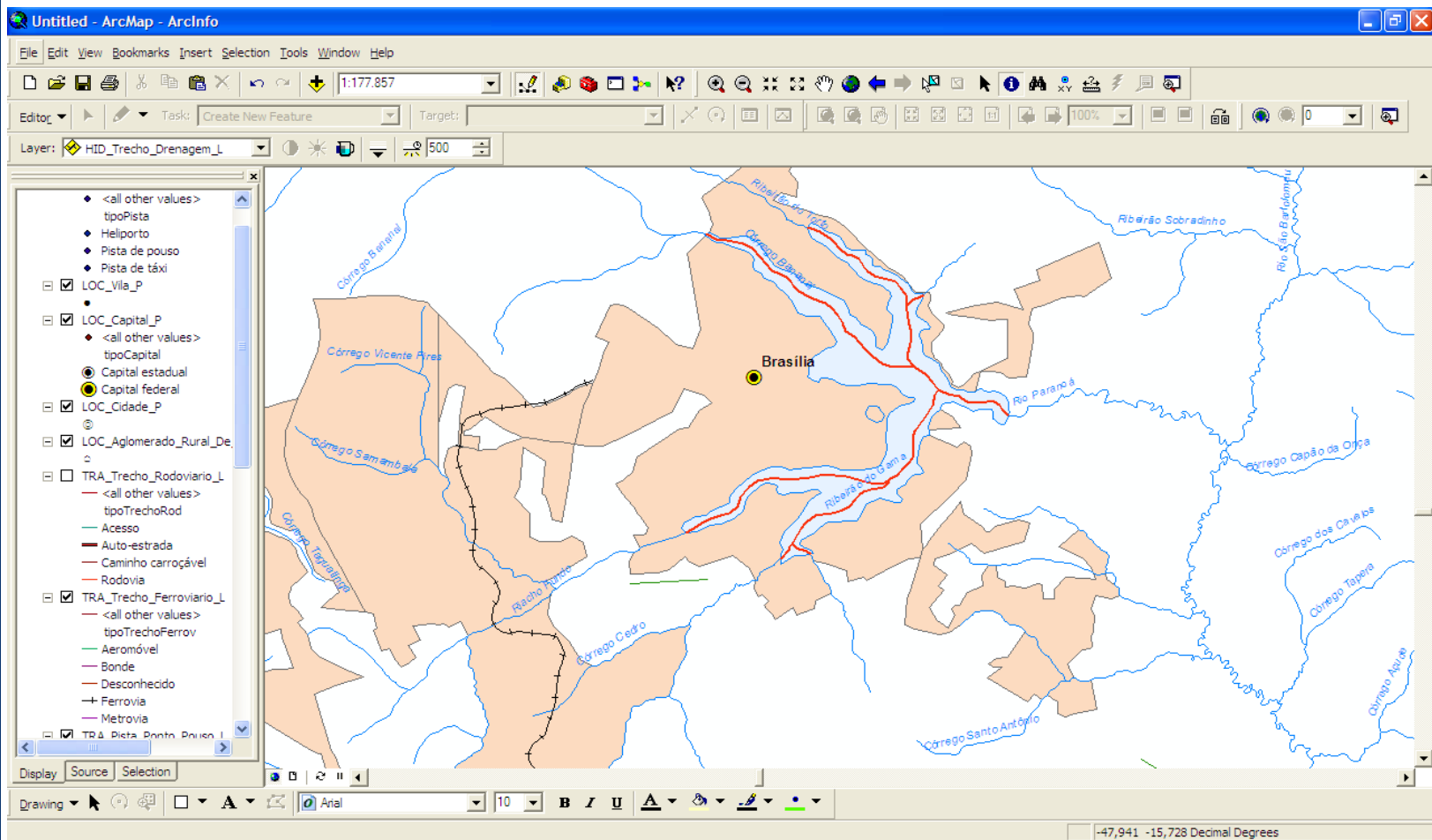


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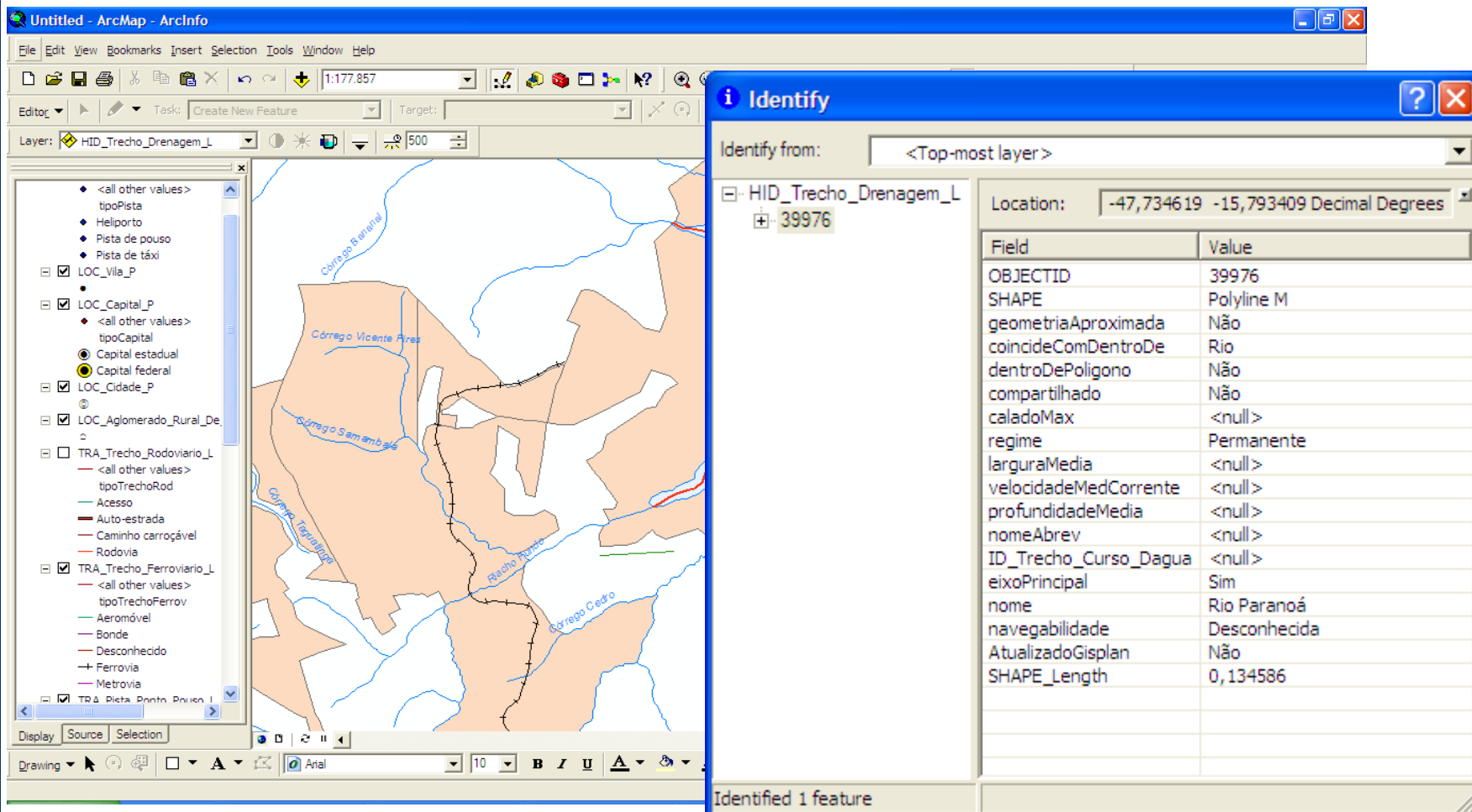
Maps Update

The maps update followed the specifications of the National Cartographic System defined by the National Commission of Cartography. The specification, called Geospatial Vectorial Data Structure (EDGV), has the objective of standardize the geographic features data model and topological relations.



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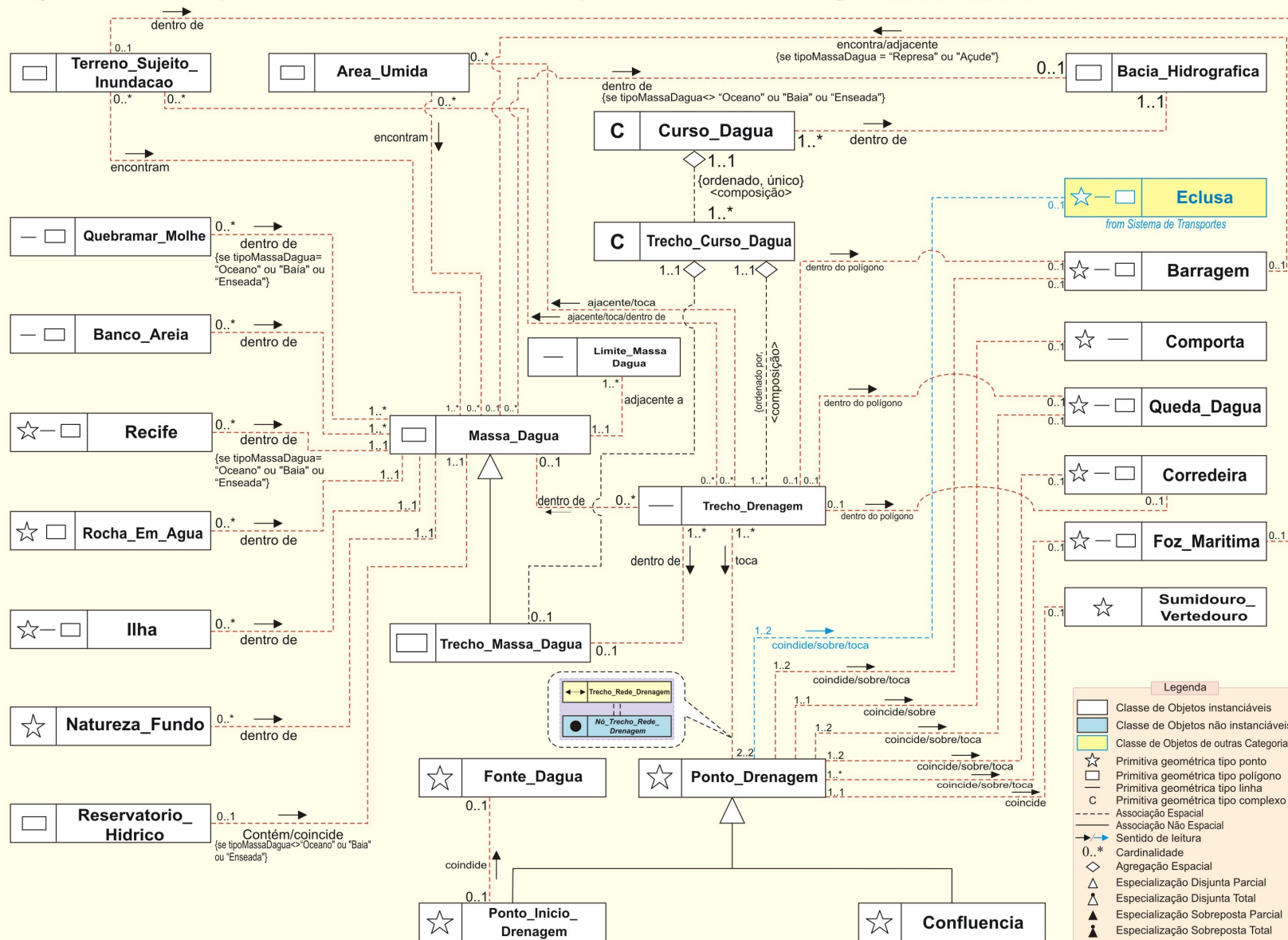


The screenshot shows the ArcMap interface with the 'Identify' window open. The map displays a drainage network with features like 'Córrego Vicente Frees' and 'Córrego Sem Ambala'. The 'Identify' window shows the following data for the selected feature:


Field	Value
OBJECTID	39976
SHAPE	Polyline M
geometriaAproximada	Não
coincideComDentroDe	Rio
dentroDePoligono	Não
compartilhado	Não
caladoMax	<null>
regime	Permanente
larguraMedia	<null>
velocidadeMedCorrente	<null>
profundidadeMedia	<null>
nomeAbrev	<null>
ID_Trecho_Curso_Dagua	<null>
eixoPrincipal	Sim
nome	Rio Paranoá
navegabilidade	Desconhecida
AtualizadoGisplan	Não
SHAPE_Length	0,134586

Identified 1 feature

Diagrama de Classe simplificado modelado em OMT G estendida pelo CEMND referente a Categoria **HIDROGRAFIA**



Geospatial Vectorial Data Structure

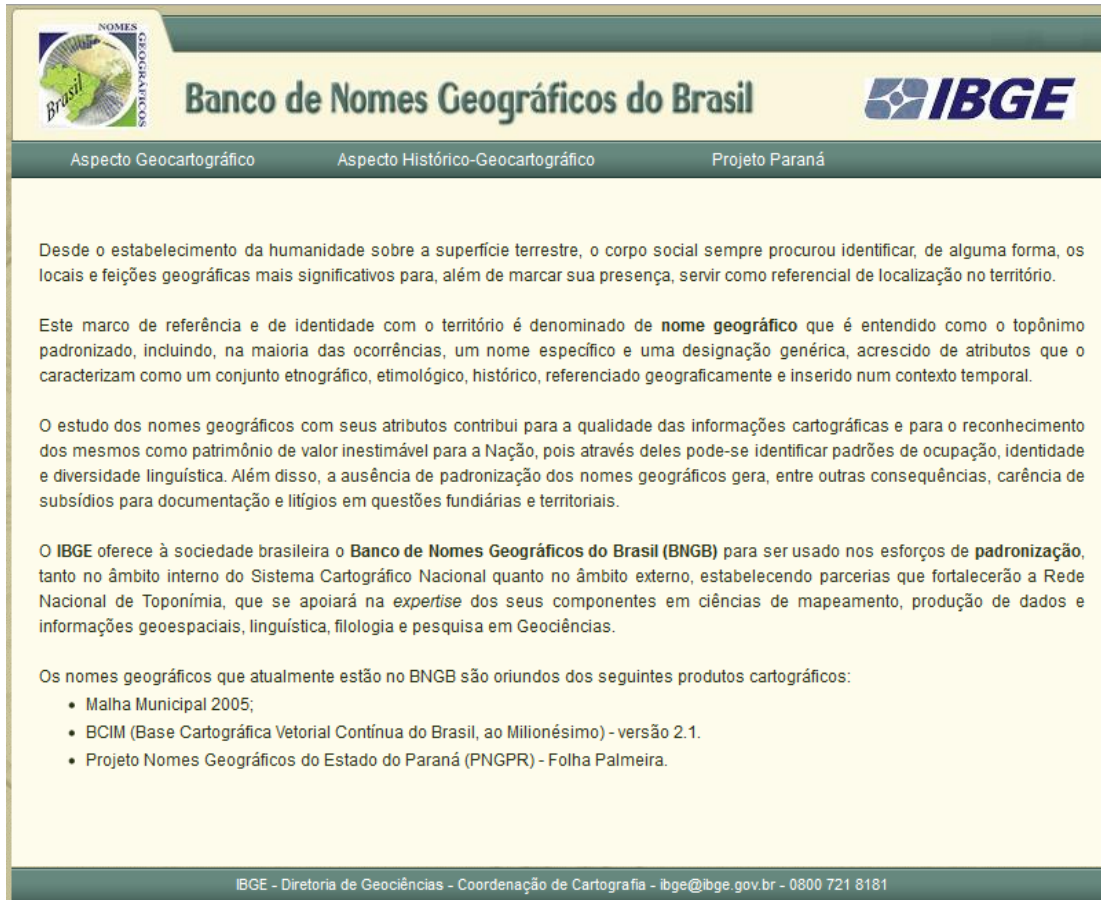
Classe	Descrição			Código	Primitiva geométrica		
Trecho_Massa_Dagua	Segmentos de cursos d'água representados por polígonos, que possuem fluxo d'água.			1.05			
Atributo	Tipo	Tamanho	Descrição	Domínio	Descrição	Requisito	Fotografia
nome	Alfanumérico	80	Nome completo da instância	A ser preenchido	-	NULO	-
geometriaAproximada	Boleano	-	Indica que a geometria adquirida é aproximada, em relação a escala prevista para o produto cartográfico.	Sim Não	- -	NÃO NULO	-
tipoTrechoMassa	Alfanumérico	12	Indica o tipo do trecho de massa d'água. Nota: rios e canais represados mesmo que o nome usual indique ser lago ou lagoa etc, será atributo tipoTrechoMassa = Represa/açude ou Rio ou Canal Exemplo de um trecho de massa d'água: nome=Lago de Itaipu tipoTrechoMassa=Represa /açude (obs.: o trecho de drenagem terá o nome = Rio Paraná).	Rio	Corrente contínua de água, mais ou menos caudalosa, que deságua noutra, no mar ou num lago, e, que, excedam a 0,8 mm na escala da Carta.	NÃO NULO	1.05 a
				Canal	Curso de água artificial que serve de interligação entre corpos de água maiores, podendo ser navegável ou não, que excedam a 0,8 mm na escala da Carta		1.05 b/c
				Represa/aAçude	Depósito d'água formada pelo acúmulo das águas represadas, que possuem fluxo d'água.		1.05 d
				Laguna	Águas quietas, separadas do mar apenas por uma restinga de areia e com o qual mantém comunicação intermitente. Esta situação ocorrerá no final de cursos d'água		1.05 e
				Foz marítima	Ponto mais baixo no limite de um sistema de drenagem (deseimbocadura) onde o curso d'água descarrega suas águas no oceano, em uma baía ou enseada. Esta situação ocorrerá no final de cursos d'água		1.05 f
regime	Alfanumérico	30	Indica o regime da ocorrência da água, para a linha de drenagem.	Permanente	Nunca seca, mesmo no período de estiagem, podendo porém ser de nível variável.	NÃO NULO	-
				Permanente com grande variação	Possui água durante todo o ano, mas apresenta grande variação de nível em função do regime de chuvas.		-
				Temporário	Possui volume de água inconstante em função do regime de chuvas, podendo ser intermitente ou periódico.		-
				Temporário com leito permanente	Possui volume de água inconstante em função do regime de chuvas, podendo ser intermitente ou periódico, porém mantém bem definida a calha original.		-
				Seco	Cuja existência é condicionada às enxurradas do período chuvoso, passado o qual, geralmente, seca ou fica reduzido a um filete d'água, sendo que seu leito está sujeito a mudança de posição, mais ou menos freqüente.		-
salinidade	Alfanumérico	16	Qualidade da água, em função da quantidade de sais existentes em massas de água naturais - um oceano, um lago, um estuário ou um aquífero.	Desconhecida	-	NÃO NULO	-
				Doce	Entre 0 e 0,5 mg/l		
				Salgada	Salinidade média aproximada de 35 mg/l.		
nomeAbrev	Alfanumérico	50	Nome ou abreviatura padronizada.	A ser preenchido	-	NULO	-

In 2010, were initiated systematic surveys to collect geographical names for the BC250, that are available through the Brazilian Geographic Names Database (BNGB).


The BNGB contains geographic names presented in the Brazilian mapping with their location, category and mapping scale, as well as historical and linguistic information associated for their standardization and certification as official name.

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The screenshot shows the website interface for the Banco de Nomes Geográficos do Brasil (BNGB). At the top left is a logo with a globe and the text 'NOMES GEOGRÁFICOS DO BRASIL'. To its right is the title 'Banco de Nomes Geográficos do Brasil' and the IBGE logo. Below this is a navigation bar with three tabs: 'Aspecto Geocartográfico', 'Aspecto Histórico-Geocartográfico', and 'Projeto Paraná'. The main content area contains three paragraphs of text. The first paragraph discusses the historical importance of geographical names. The second paragraph defines a 'nome geográfico' and its characteristics. The third paragraph explains the value of geographical names for cartography and linguistics. Below the text is a list of three cartographic products currently in the BNGB. At the bottom of the page is a footer with contact information.

Banco de Nomes Geográficos do Brasil 

Aspecto Geocartográfico Aspecto Histórico-Geocartográfico Projeto Paraná

Desde o estabelecimento da humanidade sobre a superfície terrestre, o corpo social sempre procurou identificar, de alguma forma, os locais e feições geográficas mais significativos para, além de marcar sua presença, servir como referencial de localização no território.

Este marco de referência e de identidade com o território é denominado de **nome geográfico** que é entendido como o topônimo padronizado, incluindo, na maioria das ocorrências, um nome específico e uma designação genérica, acrescido de atributos que o caracterizam como um conjunto etnográfico, etimológico, histórico, referenciado geograficamente e inserido num contexto temporal.

O estudo dos nomes geográficos com seus atributos contribui para a qualidade das informações cartográficas e para o reconhecimento dos mesmos como patrimônio de valor inestimável para a Nação, pois através deles pode-se identificar padrões de ocupação, identidade e diversidade linguística. Além disso, a ausência de padronização dos nomes geográficos gera, entre outras consequências, carência de subsídios para documentação e litígios em questões fundiárias e territoriais.

O IBGE oferece à sociedade brasileira o **Banco de Nomes Geográficos do Brasil (BNGB)** para ser usado nos esforços de **padronização**, tanto no âmbito interno do Sistema Cartográfico Nacional quanto no âmbito externo, estabelecendo parcerias que fortalecerão a Rede Nacional de Toponímia, que se apoiará na *expertise* dos seus componentes em ciências de mapeamento, produção de dados e informações geoespaciais, linguística, filologia e pesquisa em Geociências.

Os nomes geográficos que atualmente estão no BNGB são oriundos dos seguintes produtos cartográficos:

- Malha Municipal 2005;
- BCIM (Base Cartográfica Vetorial Contínua do Brasil, ao Milionésimo) - versão 2.1.
- Projeto Nomes Geográficos do Estado do Paraná (PNGPR) - Folha Palmeira.

IBGE - Diretoria de Geociências - Coordenação de Cartografia - ibge@ibge.gov.br - 0800 721 8181

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The screenshot shows the web interface of the Brazilian Geographic Names Database (BNGB). The main header includes the IBGE logo and the title 'Banco de Nomes Geográficos do Brasil'. Below the header, there are navigation tabs for 'Aspecto Geocartográfico', 'Aspecto Histórico-Geocartográfico', and 'Projeto Paraná'. The main content area features a search form titled 'Consulta por Nome' with the following fields: 'Nome geográfico' (filled with 'Rio Verde'), 'País' (dropdown menu with 'Brasil' selected), 'Estado' (dropdown menu with 'TODOS' selected), and 'Categoria' (dropdown menu with 'TODAS' selected). An 'Enviar' button is located below the search form. Below the search form, a table displays the search results, titled 'Resultado da Consulta: 89 registros'. The table has columns for BNGB, Nome Oficial, Categoria, Classe, País, and Estado. The first seven rows of the table are as follows:

BNGB	Nome Oficial	Categoria	Classe	País	Estado
1 23961	<u>Barreiro do Rio Verde</u>	LOCALIDADE	OUTRAS LOCALIDADES	Brasil	Minas Gerais
2 5374	<u>Carmo do Rio Verde</u>	LOCALIDADE	CIDADE	Brasil	Goiás
3 2436	<u>Conceição do Rio Verde</u>	LOCALIDADE	CIDADE	Brasil	Minas Gerais
4 6869	<u>Faz. Rio Verde</u>	SISTEMA DE TRANSPORTE	AERÓDROMO	Brasil	Goiás
5 7985	<u>Faz. Vale Do Rio Verde</u>	SISTEMA DE TRANSPORTE	AERÓDROMO	Brasil	Mato Grosso
6 43092	<u>Igarapé Rio Verde</u>	HIDROGRAFIA	CURSO DE ÁGUA	Brasil	Pará
7 7922	<u>Lucas do Rio Verde</u>	SISTEMA DE TRANSPORTE	AERÓDROMO	Brasil	Mato Grosso

At the bottom of the page, there is a footer with the text: 'IBGE - Diretoria de Geociências - Coordenação de Cartografia - ibge@ibge.gov.br - 0800 721 8181'.

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Banco de Nomes Geográficos do Brasil

Aspecto Geocartográfico | Aspecto Histórico-Geocartográfico | Projeto Paraná

Nome Geográfico: Rio Verde
País: Brasil
Estado: TODOS
Categoria: TODAS

Igarapé Rio Verde

Você possui uma foto que identifique este nome geográfico?! Então envie-nos.
Contato: ibge@ibge.gov.br

Representação Geoespacial

Mapa mostrando a localização de Igarapé Rio Verde em relação a outros pontos geográficos como Igarapé Jotuba, Rio Surubiju, Igarapé do Dez, Colanésia do Pará, Rio Ararandeuá, Igarapé São José e Igarapé Arapixi.

	BNGB	Nome Oficial
1	23961	Barreiro do Rio Verde
2	5374	Carmo do Rio Verde
3	2436	Conceição do Rio Verde
4	6869	Faz. Rio Verde
5	7985	Faz. Vale Do Rio Verde
6	43092	Igarapé Rio Verde
7	7922	Lucas do Rio Verde

Aspectos Geocartográficos

Informações Gerais

Nome Oficial: Igarapé Rio Verde
Nome Variante:
Geocódigo:
Categoria: HIDROGRAFIA
Classe: CURSO DE ÁGUA

Localização do Nome Geográfico

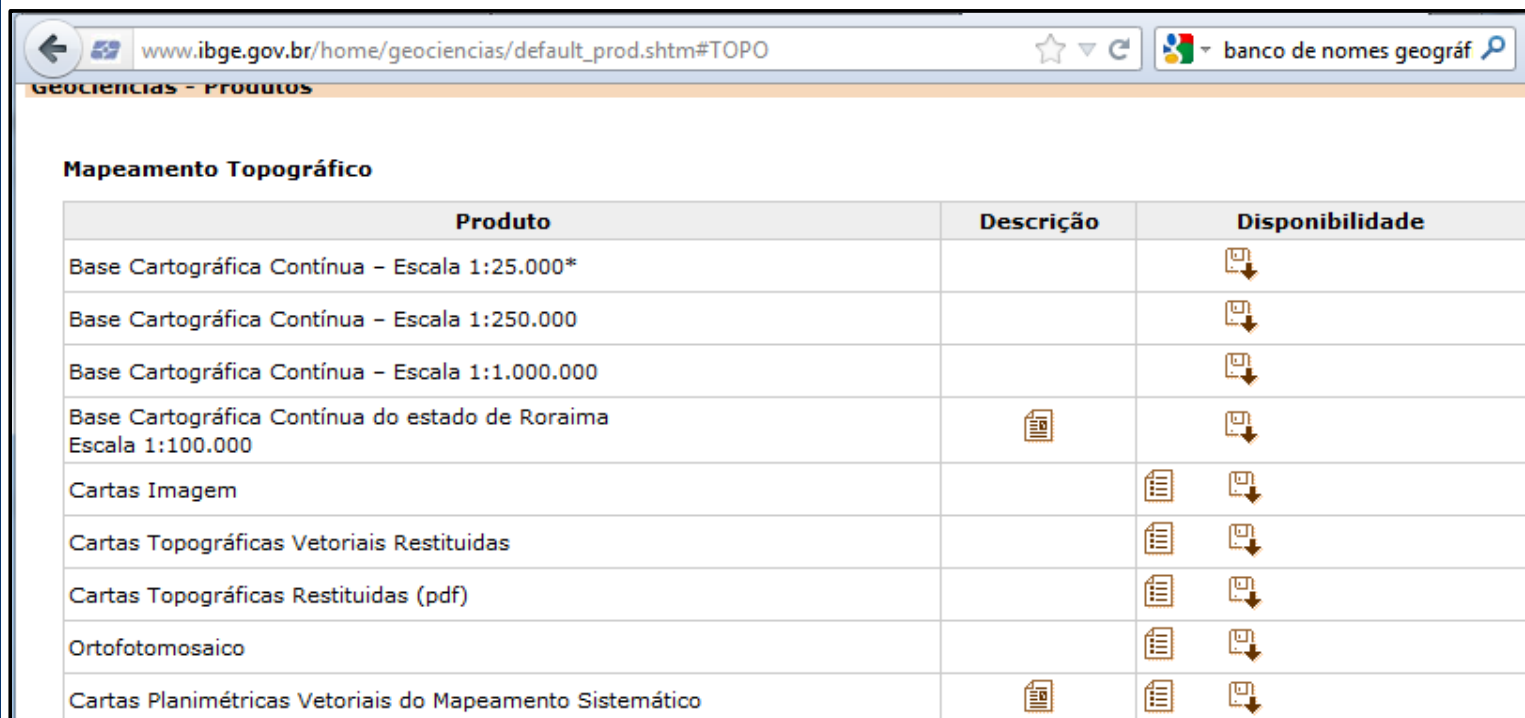
País: Brasil
Estado: Pará
Latitude: -3:45:53,88
Longitude: -48:59:58,77

Nome Geográfico na Cartografia do IBGE

















Fonte de Carga: BCIM versão 2.1
Escala: 1:1.000.000

IBGE - Diretoria de Geociências - Coordenação de Cartografia - ibge@ibge.gov.br - 0800 721 8181

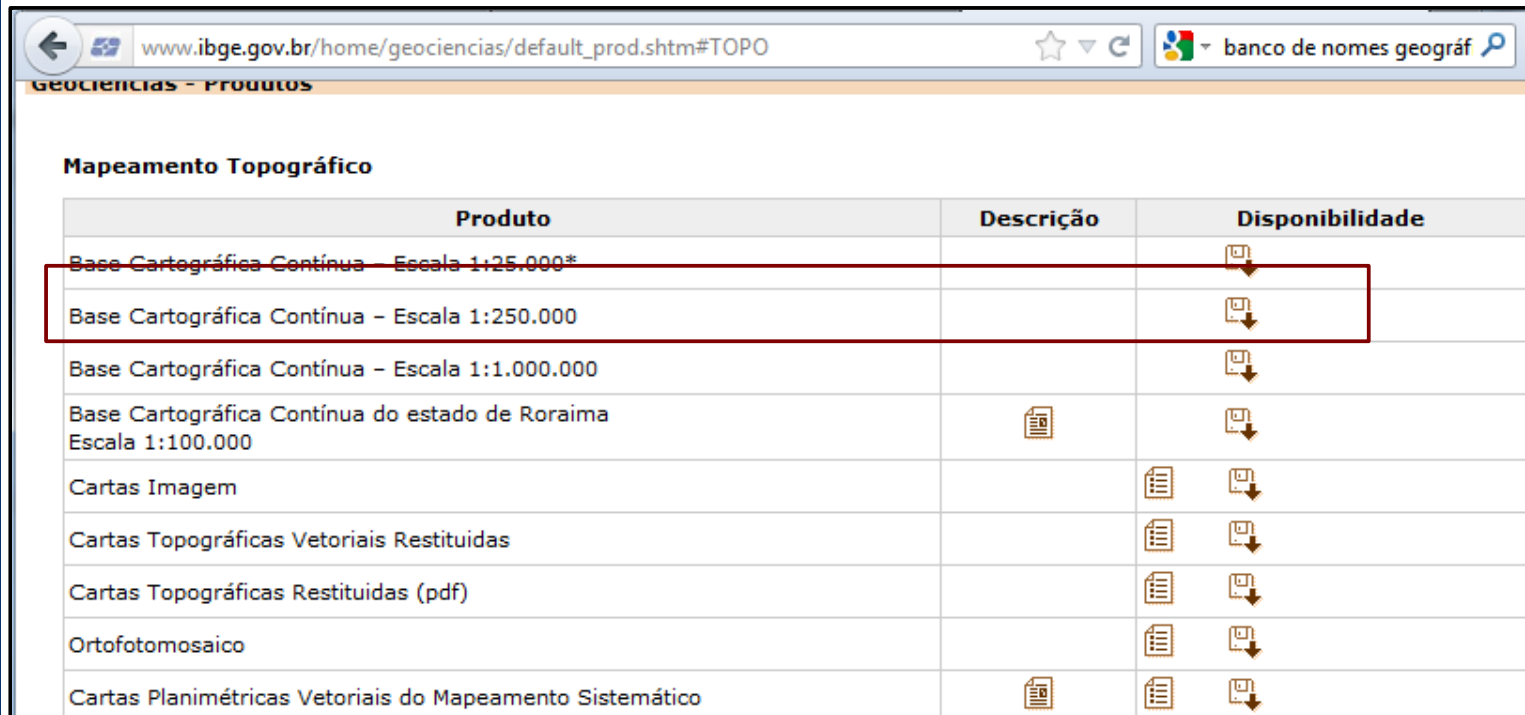
BC250 is available for download at the IBGE homepage.
In October 2013, an unique database of 1:250,000 Brazilian mapping
will be made available .



The screenshot shows a web browser window with the URL www.ibge.gov.br/home/geociencias/default_prod.shtm#TOPO. The page title is "Geociencias - Produtos". Under the heading "Mapeamento Topográfico", there is a table with three columns: "Produto", "Descrição", and "Disponibilidade".

















Produto	Descrição	Disponibilidade
Base Cartográfica Contínua - Escala 1:25.000*		
Base Cartográfica Contínua - Escala 1:250.000		
Base Cartográfica Contínua - Escala 1:1.000.000		
Base Cartográfica Contínua do estado de Roraima Escala 1:100.000		
Cartas Imagem		 
Cartas Topográficas Vetoriais Restituídas		 
Cartas Topográficas Restituídas (pdf)		 
Ortofotomosaico		 
Cartas Planimétricas Vetoriais do Mapeamento Sistemático		 

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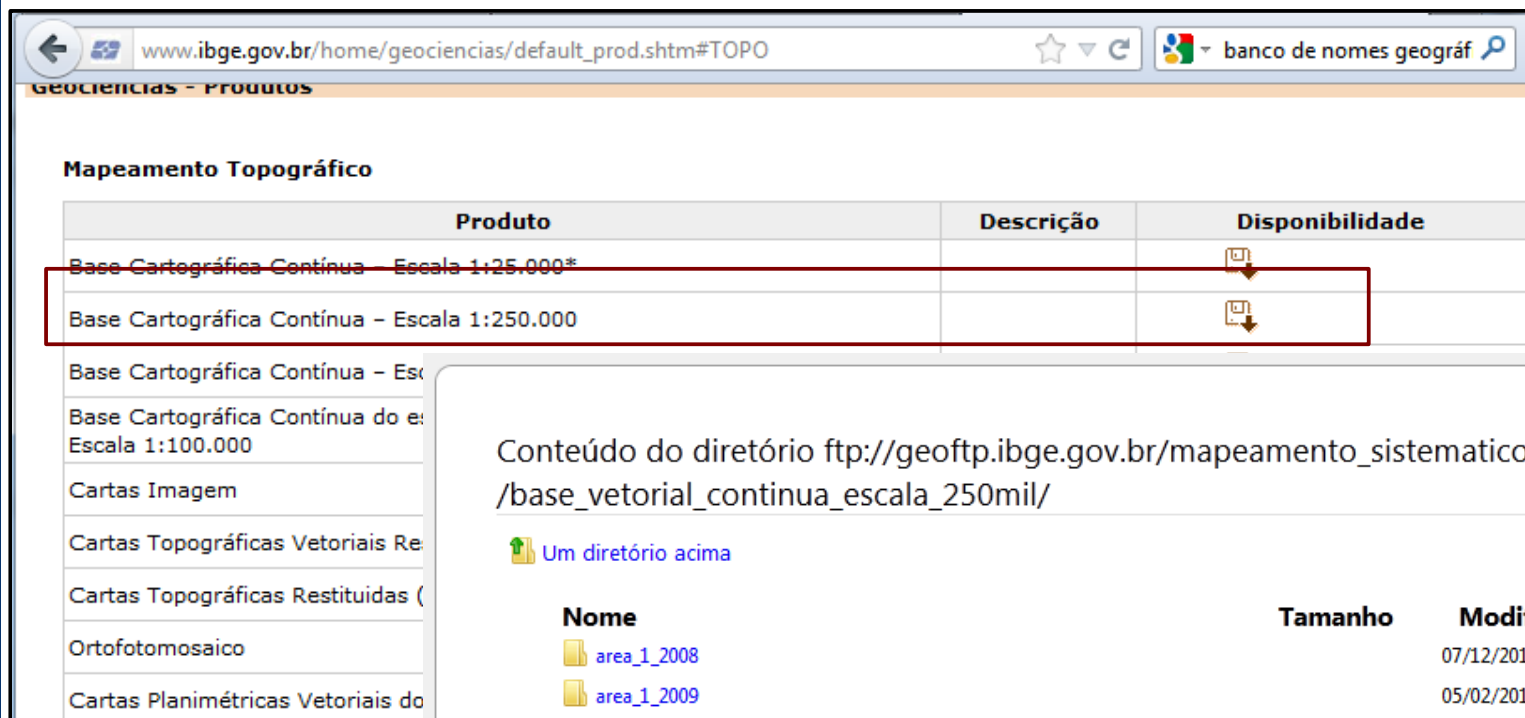


Geociências - Produtos

Mapeamento Topográfico



Produto	Descrição	Disponibilidade
Base Cartográfica Contínua - Escala 1:25.000*		
Base Cartográfica Contínua - Escala 1:250.000		
Base Cartográfica Contínua - Escala 1:1.000.000		
Base Cartográfica Contínua do estado de Roraima Escala 1:100.000		
Cartas Imagem		 
Cartas Topográficas Vetoriais Restituídas		 
Cartas Topográficas Restituídas (pdf)		 
Ortofotomosaico		 
Cartas Planimétricas Vetoriais do Mapeamento Sistemático		 

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Geociências - Produtos










Mapeamento Topográfico

Produto	Descrição	Disponibilidade
Base Cartográfica Contínua - Escala 1:25.000*		
Base Cartográfica Contínua - Escala 1:250.000		
Base Cartográfica Contínua - Escala 1:100.000		
Base Cartográfica Contínua do Brasil - Escala 1:100.000		
Cartas Imagem		
Cartas Topográficas Vetoriais Restituídas		
Cartas Topográficas Restituídas (Antigo)		
Ortofotomosaico		
Cartas Planimétricas Vetoriais do Brasil		

Conteúdo do diretório ftp://geoftp.ibge.gov.br/mapeamento_sistemático/base_vetorial_continua_escala_250mil/

 [Um diretório acima](#)

Nome

 [area_1_2008](#)
 [area_1_2009](#)
 [area_1_2011](#)
 [area_2_2009](#)
 [area_2_2011](#)
 [area_3_2009](#)
 [area_3_2011](#)
 [area_4_2009](#)
 [mapabrazil250.pdf](#)

Tamanho

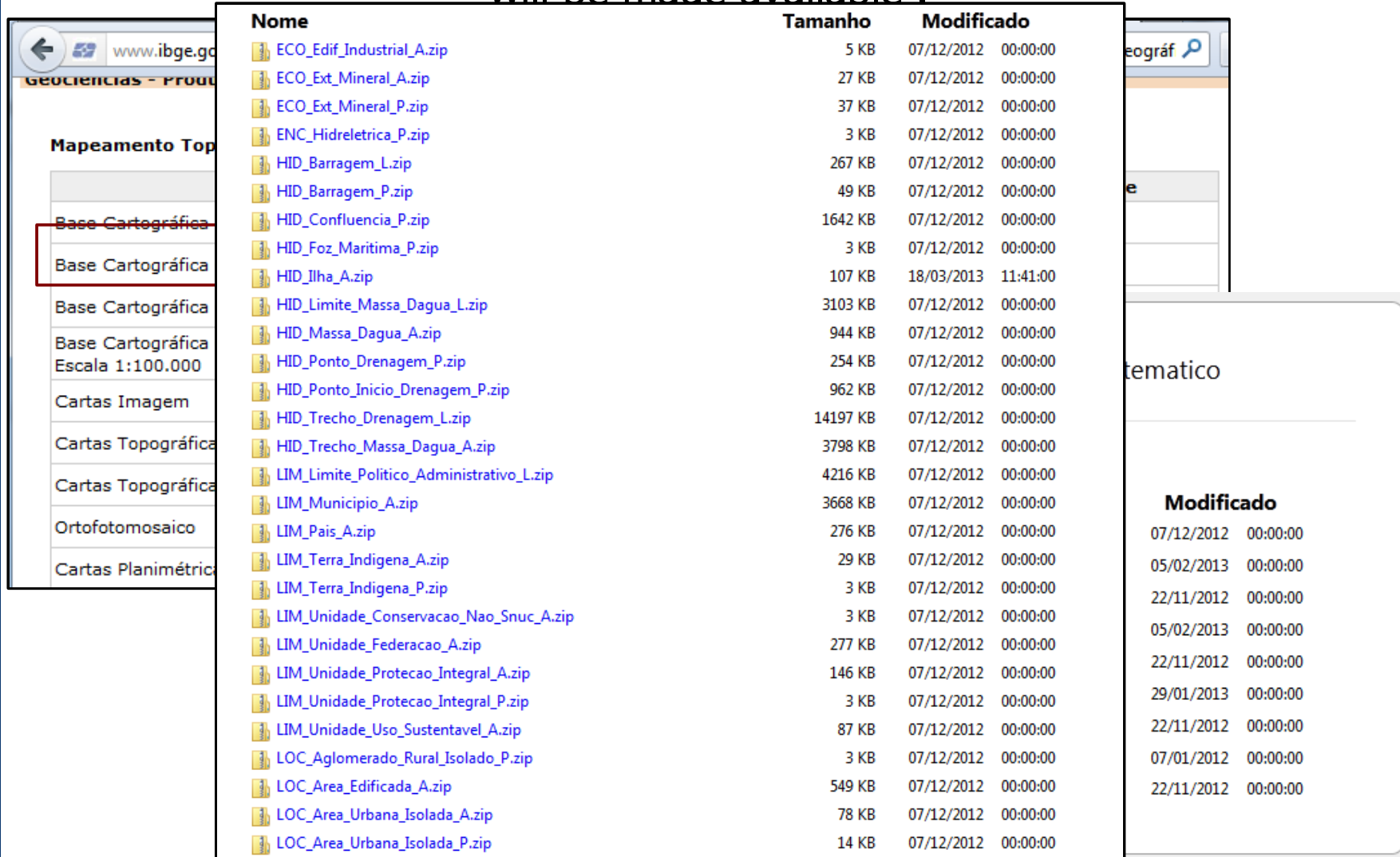
387 KB

Modificado

07/12/2012 00:00:00
05/02/2013 00:00:00
22/11/2012 00:00:00
05/02/2013 00:00:00
22/11/2012 00:00:00
29/01/2013 00:00:00
22/11/2012 00:00:00
07/01/2012 00:00:00
22/11/2012 00:00:00

Mapping Download

BC250 is available for download at the IBGE homepage.
In October 2013, an unique database of 1:250,000 Brazilian mapping will be made available.



Nome	Tamanho	Modificado
ECO_Edif_Industrial_A.zip	5 KB	07/12/2012 00:00:00
ECO_Ext_Mineral_A.zip	27 KB	07/12/2012 00:00:00
ECO_Ext_Mineral_P.zip	37 KB	07/12/2012 00:00:00
ENC_Hidreletrica_P.zip	3 KB	07/12/2012 00:00:00
HID_Barragem_L.zip	267 KB	07/12/2012 00:00:00
HID_Barragem_P.zip	49 KB	07/12/2012 00:00:00
HID_Confluencia_P.zip	1642 KB	07/12/2012 00:00:00
HID_Foz_Maritima_P.zip	3 KB	07/12/2012 00:00:00
HID_Ilha_A.zip	107 KB	18/03/2013 11:41:00
HID_Limite_Massa_Dagua_L.zip	3103 KB	07/12/2012 00:00:00
HID_Massa_Dagua_A.zip	944 KB	07/12/2012 00:00:00
HID_Ponto_Drenagem_P.zip	254 KB	07/12/2012 00:00:00
HID_Ponto_Inicio_Drenagem_P.zip	962 KB	07/12/2012 00:00:00
HID_Trecho_Drenagem_L.zip	14197 KB	07/12/2012 00:00:00
HID_Trecho_Massa_Dagua_A.zip	3798 KB	07/12/2012 00:00:00
LIM_Limite_Politico_Administrativo_L.zip	4216 KB	07/12/2012 00:00:00
LIM_Municipio_A.zip	3668 KB	07/12/2012 00:00:00
LIM_Pais_A.zip	276 KB	07/12/2012 00:00:00
LIM_Terra_Indigena_A.zip	29 KB	07/12/2012 00:00:00
LIM_Terra_Indigena_P.zip	3 KB	07/12/2012 00:00:00
LIM_Unidade_Conservacao_Nao_Snuc_A.zip	3 KB	07/12/2012 00:00:00
LIM_Unidade_Federacao_A.zip	277 KB	07/12/2012 00:00:00
LIM_Unidade_Protecao_Integral_A.zip	146 KB	07/12/2012 00:00:00
LIM_Unidade_Protecao_Integral_P.zip	3 KB	07/12/2012 00:00:00
LIM_Unidade_Uso_Sustentavel_A.zip	87 KB	07/12/2012 00:00:00
LOC_Aglomerado_Rural_Isolado_P.zip	3 KB	07/12/2012 00:00:00
LOC_Area_Edificada_A.zip	549 KB	07/12/2012 00:00:00
LOC_Area_Urbana_Isolada_A.zip	78 KB	07/12/2012 00:00:00
LOC_Area_Urbana_Isolada_P.zip	14 KB	07/12/2012 00:00:00

Modificado
07/12/2012 00:00:00
05/02/2013 00:00:00
22/11/2012 00:00:00
05/02/2013 00:00:00
22/11/2012 00:00:00
29/01/2013 00:00:00
22/11/2012 00:00:00
07/01/2012 00:00:00
22/11/2012 00:00:00

The BC250 project came up with the purpose of incorporating the goals of the national spatial data infrastructure in order to catalog, integrate and harmonize the existing geospatial data on Brazilian government institutions.

The integration of BC250 into INDE facilitates the location and access to geospatial informations for countless uses through internet connection as, for example, support for Brazilian natural resource mapping.



The screenshot shows the website www.metadados.ibge.gov.br. The page features a blue header with the text "BANCO DE METADADOS" and the IBGE logo. A navigation menu on the left includes "Sistema de Metadados", "Estatísticos", "Geográficos", and "Links úteis" with sub-items like "BME", "Cidades@", "CONCAR", "CONCLA", "Estados@", "Mapas Interativos", "Países@", "Séries estatísticas", and "SIDRA". The main content area contains text explaining that metadados are "dados que descrevem os dados" and that the IBGE system aims to facilitate public access to institutional data in Statistics and Geography. The footer includes technical details: "Melhor visualização em resolução 800x600", "Navegador Internet Explorer 6.0 ou Superior", and "© IBGE 2008".

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$\varphi = -22^{\circ}49'05''$
 $\lambda = -48^{\circ}18'25''$
SIRGAS2000