

Risco Geológico

Prof. Dr. Adilson Soares

Aquisição de Dados

- SRTM
- Landsat 8

Aquisição de dados

Criar conta para acesso

The screenshot displays the EarthExplorer website interface. At the top, the USGS logo is visible with the tagline "science for a changing world". The page title is "EarthExplorer" and the URL is "https://earthexplorer.usgs.gov". A navigation bar includes links for "Home", "Login", "Register", "RSS", "Feedback", and "Help". The "Register" link is highlighted with a red box and a red arrow pointing to the text "Criar conta para acesso". Below the navigation bar, there are tabs for "Search Criteria", "Data Sets", "Additional Criteria", and "Results". The "Search Criteria" tab is active, showing a section titled "1. Enter Search Criteria" with instructions: "To narrow your search area: type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the [help documentation](#)), and/or choose a date range." There are three main search input sections: "Address/Place" with a text box and "Show" and "Clear" buttons; "Coordinates" with sub-tabs for "Predefined Area", "Shapefile", and "KML", and a "Degree/Minute/Second" section with a "Decimal" radio button and a message "No coordinates selected." with "Use Map", "Add Coordinate", and "Clear Coordinates" buttons; and "Date Range" with "Result Options" sub-tabs, "Search from:" and "to:" date pickers, and a "Search months:" dropdown menu. At the bottom of the search criteria section are buttons for "Data Sets", "Additional Criteria", and "Results". On the right side, there is a "Search Criteria Summary (Show)" section with a "Clear Criteria" button and a satellite map of North America. The map shows the United States and surrounding regions, with a coordinate display of "(45° 34' 59\" N, 026° 43' 07\" W)" and "Options" and "Overlays" buttons.

Aquisição de dados

Efetuar login

The screenshot displays the EarthExplorer website interface. At the top, the USGS logo is visible with the tagline "science for a changing world". The page title is "EarthExplorer" and the URL is "https://earthexplorer.usgs.gov". A navigation bar includes links for "Home", "Login", "Register", "RSS", "Feedback", and "Help". The "Login" link is highlighted with a red box and a red arrow pointing to the text "Efetuar login" above it. The main content area is divided into two sections: "Search Criteria" and "Search Criteria Summary (Show)". The "Search Criteria" section includes a "1. Enter Search Criteria" heading and instructions on how to narrow the search area. It features several input fields and buttons for "Address/Place", "Path/Row", "Feature", "Circle", "Coordinates", "Predefined Area", "Shapefile", "KML", "Date Range", and "Result Options". The "Search Criteria Summary" section shows a map of North America with a search area highlighted in white. The map includes a coordinate display: "(45° 34' 59\" N, 026° 43' 07\" W)".

Aquisição de dados

EROS Registration System (ERS)

ERS consolidates user profile and authentication for all EROS web services into a single independent application.

Sign In

sign in with your existing USGS registered username and password

Registered USGS Username

Registered USGS Password

[forgot password?](#)

Sign In

Don't have an account?

Create New Account

OMB number 1028-0119
OMB expiration date 06/30/2019

Privacy and Paperwork Reduction Act statements: 16 U.S.C. 1a7 authorized collection of this information. This information will be used by the U.S. Geological Survey to better serve the public. Response to this request is voluntary. No action may be taken against you for refusing to supply the information requested. The time required to complete this information collection is estimated to average 5 minutes per response. We will not distribute responses associated with you as an individual. We ask you for some basic organizational and contact information to help us interpret the results and, if needed, to contact you for clarification. Comments on this collection should be sent to custserv@usgs.gov.

Accessibility FOIA Privacy Policies and Notices Feedback Help

U.S. Department of the Interior U.S. Geological Survey
URL: <https://ers.cr.usgs.gov>
Page Contact Information: custserv@usgs.gov
Page Last Modified: 12/27/2017

USA.gov

Aquisição de dados

EROS Registration System (ERS)

ERS consolidates user profile and authentication for all EROS web services into a single independent application.

Sign In

sign in with your existing USGS registered username and password

avsoares@gmail.com

.....

[forgot password?](#)

Sign In

Don't have an account?

Create New Account

OMB number 1028-0119
OMB expiration date 06/30/2019

Privacy and Paperwork Reduction Act statements: 16 U.S.C. 1a7 authorized collection of this information. This information will be used by the U.S. Geological Survey to better serve the public. Response to this request is voluntary. No action may be taken against you for refusing to supply the information requested. The time required to complete this information collection is estimated to average 5 minutes per response. We will not distribute responses associated with you as an individual. We ask you for some basic organizational and contact information to help us interpret the results and, if needed, to contact you for clarification. Comments on this collection should be sent to custserv@usgs.gov.

Accessibility FOIA Privacy Policies and Notices Feedback Help

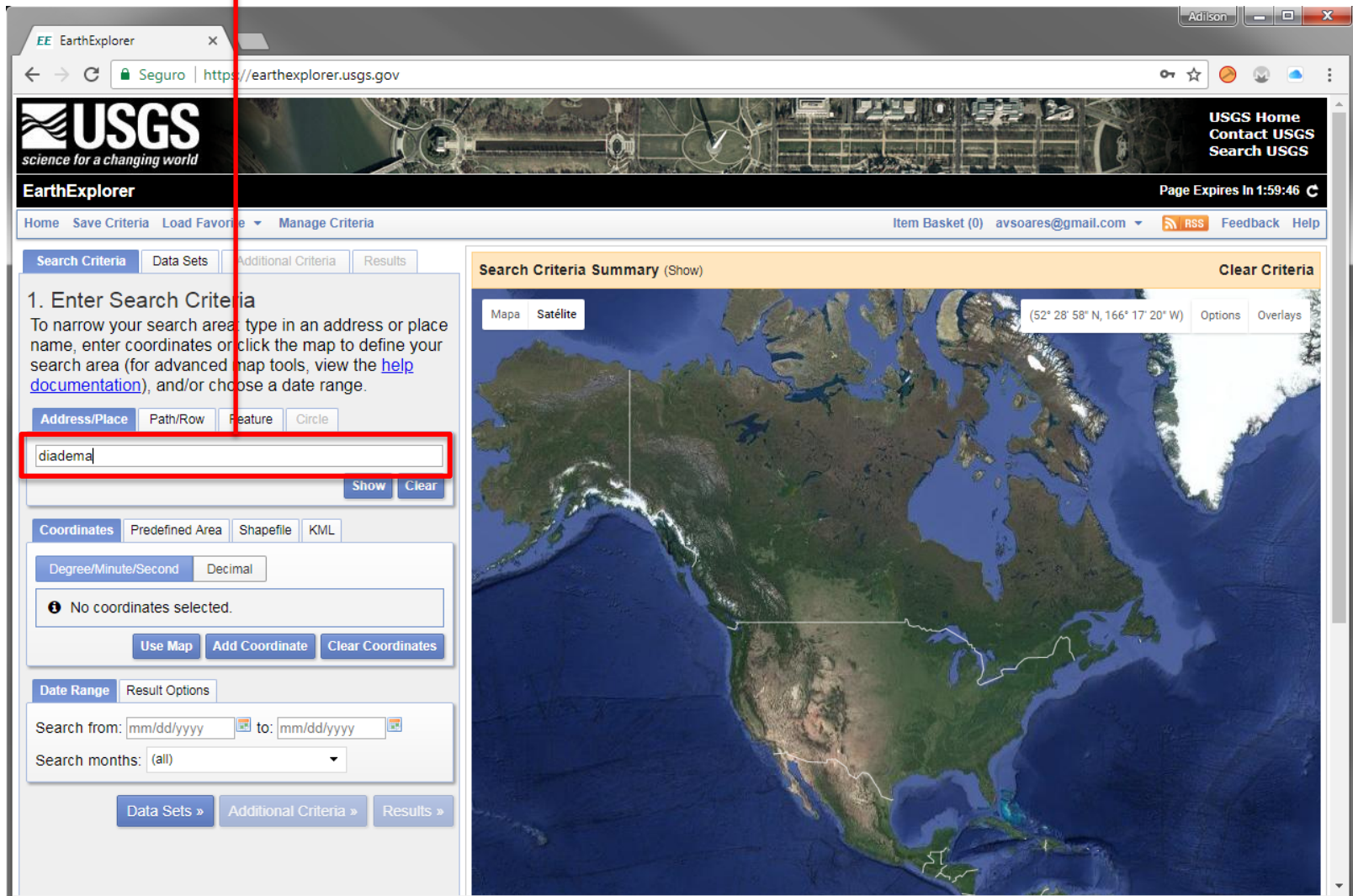
U.S. Department of the Interior U.S. Geological Survey
URL: <https://ers.cr.usgs.gov>
Page Contact Information: custserv@usgs.gov
Date Last Modified: 12/27/2017

Aguardando earthexplorer.usgs.gov...

USA.gov

Aquisição de dados

Inserir nome do município → clicar Show



The screenshot displays the USGS EarthExplorer web interface. The browser address bar shows the URL <https://earthexplorer.usgs.gov>. The page features the USGS logo and navigation links such as "Home", "Save Criteria", "Load Favorite", and "Manage Criteria".

The "Search Criteria" section is active, showing instructions for entering search criteria. A red box highlights the "Address/Place" search input field, which contains the text "diadema". Below the input field are "Show" and "Clear" buttons. Other search options include "Path/Row", "Feature", and "Circle".

The "Coordinates" section is also visible, with tabs for "Predefined Area", "Shapefile", and "KML". It includes a "Degree/Minute/Second" and "Decimal" format selector, a "No coordinates selected" message, and buttons for "Use Map", "Add Coordinate", and "Clear Coordinates".

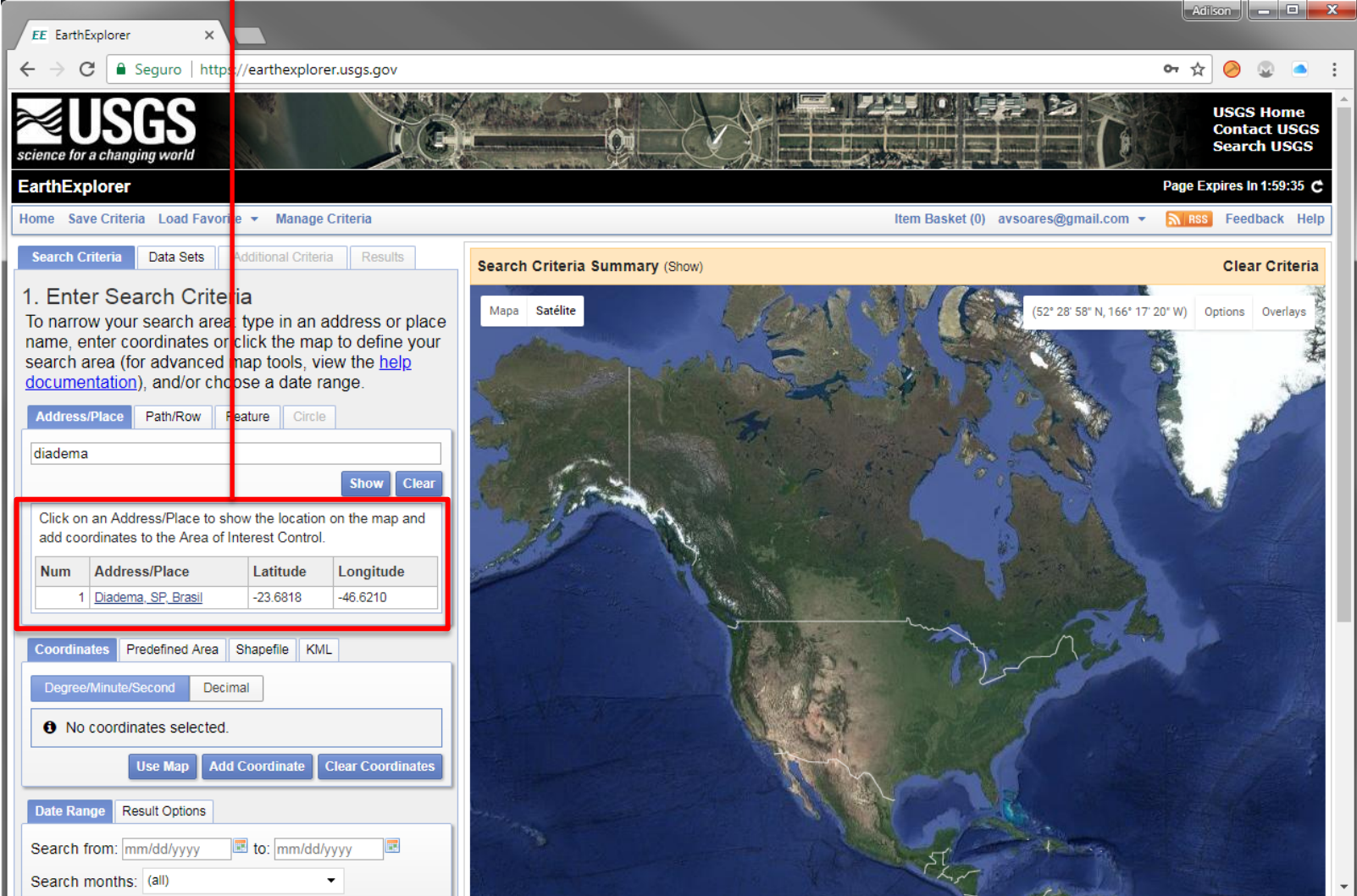
The "Date Range" section includes "Result Options" and a search range input: "Search from: mm/dd/yyyy to: mm/dd/yyyy" with a "Search months" dropdown menu set to "(all)".

At the bottom of the search criteria section are buttons for "Data Sets", "Additional Criteria", and "Results".

On the right side of the interface, a "Search Criteria Summary (Show)" panel is visible, featuring a map view selector (Mapa/Satélite), a coordinate display showing (52° 28' 58" N, 166° 17' 20" W), and buttons for "Options" and "Overlays".

Aquisição de dados

O município procurado aparecerá neste campo. Clicar no nome.



The screenshot shows the USGS EarthExplorer interface. The search criteria section is highlighted with a red box. The search term 'diadema' is entered in the 'Address/Place' field. Below the input field, a table lists the search results. The table has four columns: Num, Address/Place, Latitude, and Longitude. The first row shows '1' in the Num column, 'Diadema_SP_Brasil' in the Address/Place column, '-23.6818' in the Latitude column, and '-46.6210' in the Longitude column. The table is enclosed in a red border. The map on the right shows the location of Diadema, Brazil, with coordinates (52° 28' 58" N, 166° 17' 20" W) displayed. The map is in satellite view.

USGS Home
Contact USGS
Search USGS

Page Expires In 1:59:35

Home Save Criteria Load Favorite Manage Criteria Item Basket (0) avsoares@gmail.com RSS Feedback Help

Search Criteria Data Sets Additional Criteria Results

1. Enter Search Criteria
To narrow your search area, type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the [help documentation](#)), and/or choose a date range.

Address/Place Path/Row Feature Circle

diadema Show Clear

Click on an Address/Place to show the location on the map and add coordinates to the Area of Interest Control.

Num	Address/Place	Latitude	Longitude
1	Diadema_SP_Brasil	-23.6818	-46.6210

Coordinates Predefined Area Shapefile KML

Degree/Minute/Second Decimal

No coordinates selected.

Use Map Add Coordinate Clear Coordinates

Date Range Result Options

Search from: mm/dd/yyyy to: mm/dd/yyyy

Search months: (all)

Aquisição de dados

Coordenadas do ponto central

Indicação do local do município

The screenshot displays the USGS EarthExplorer web interface. The browser address bar shows the URL <http://earthexplorer.usgs.gov>. The page features the USGS logo and navigation links such as "Home", "Save Criteria", "Load Favorites", and "Manage Criteria".

The main content area is divided into two sections:

- Search Criteria Summary (Show):** This section includes a map of South America with a red circle highlighting a specific location in Brazil. The coordinates for this location are displayed as $(24^{\circ} 12' 24'' \text{ N}, 017^{\circ} 13' 35'' \text{ E})$. A red line connects this location on the map to the coordinate input field in the search criteria section.
- Search Criteria:** This section contains a form for entering search criteria. The "Coordinates" tab is selected, and the "Degree/Minute/Second" sub-tab is active. The input field contains the coordinates: "1. Lat: 23° 40' 54" S, Lon: 046° 37' 15" W". A red box highlights this input field, and a red line connects it to the "Coordinates do ponto central" label above.

Additional elements include a "Date Range" section with "Search from" and "Search to" date pickers, and a "Search months" dropdown menu. The page footer includes "Data Sets", "Additional Criteria", and "Results" buttons.

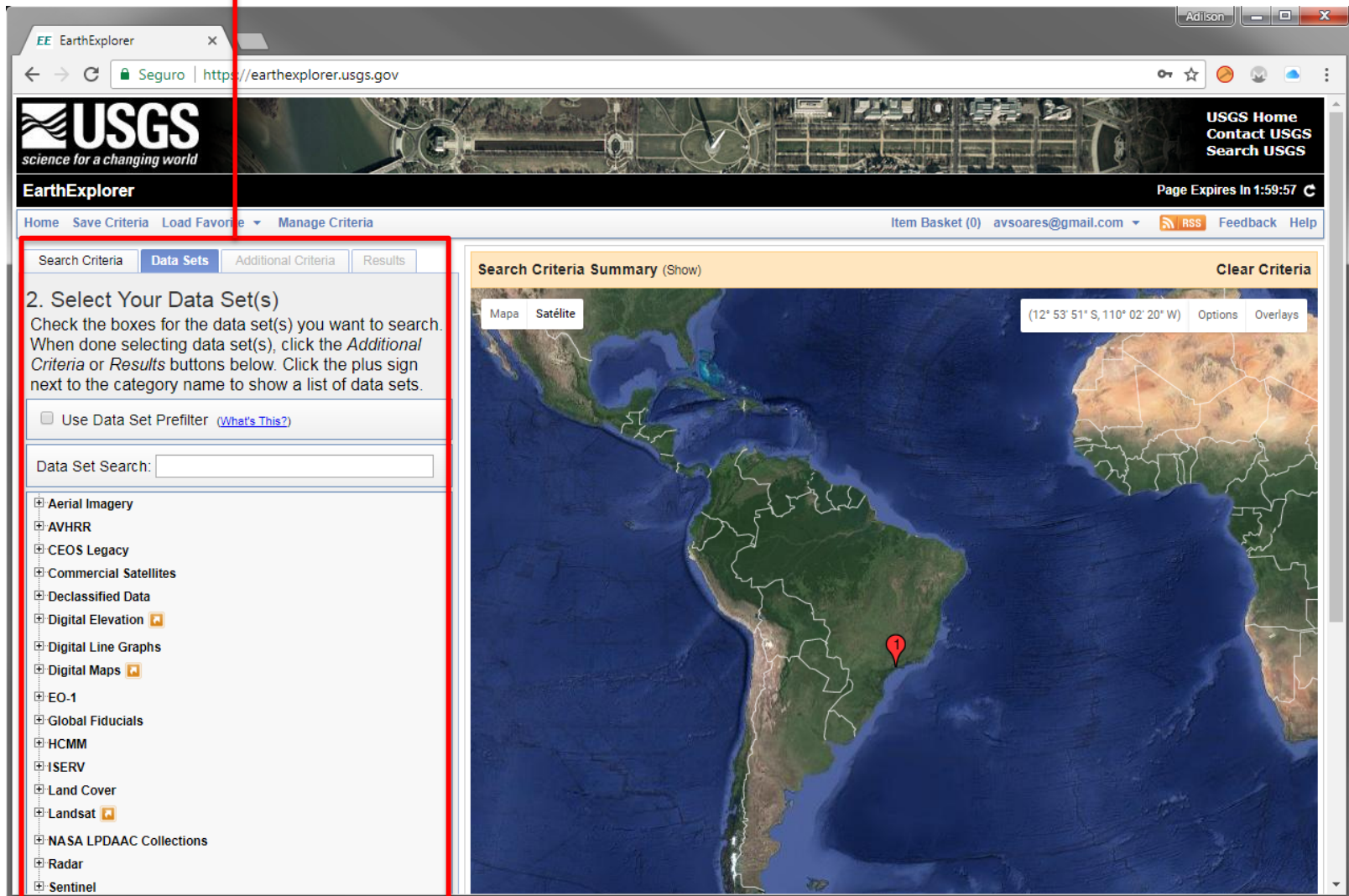
Aquisição de dados

Aplicar zoom para conferir o município

The screenshot displays the EarthExplorer web application interface. The browser address bar shows the URL <https://earthexplorer.usgs.gov>. The page features the USGS logo and navigation links such as Home, Save Criteria, Load Favorite, and Manage Criteria. A search criteria summary is visible, including a search criteria section with instructions and input fields for address/place, coordinates, and date range. The coordinates field shows 1. Lat: 23° 40' 54" S, Lon: 046° 37' 15" W. The map view shows a satellite image of São Paulo, Brazil, with a red circle highlighting the Diadema municipality. The search criteria summary also displays the coordinates (23° 37' 41" S, 046° 27' 57" W) and options for map style and overlays.

Aquisição de dados: SRTM

Clicar na aba Data Sets



EarthExplorer

Seguro | <http://earthexplorer.usgs.gov>

USGS
science for a changing world

USGS Home
Contact USGS
Search USGS

Page Expires In 1:59:57

Home Save Criteria Load Favorite Manage Criteria

Item Basket (0) avsoares@gmail.com RSS Feedback Help




Search Criteria **Data Sets** Additional Criteria Results

2. Select Your Data Set(s)

Check the boxes for the data set(s) you want to search. When done selecting data set(s), click the *Additional Criteria* or *Results* buttons below. Click the plus sign next to the category name to show a list of data sets.

Use Data Set Prefilter ([What's This?](#))

Data Set Search:

- Aerial Imagery
- AVHRR
- CEOS Legacy
- Commercial Satellites
- Declassified Data
- Digital Elevation 
- Digital Line Graphs
- Digital Maps 
- EO-1
- Global Fiducials
- HCMM
- ISERV
- Land Cover
- Landsat 
- NASA LPDAAC Collections
- Radar
- Sentinel

Search Criteria Summary (Show) Clear Criteria

Mapa Satélite

(12° 53' 51" S, 110° 02' 20" W) Options Overlays

Aquisição de dados: SRTM

Navegar até Digital Elevation → SRTM → Marcar SRTM 1 Arc-Second Global

The screenshot shows the USGS EarthExplorer website interface. The browser address bar displays "http://earthexplorer.usgs.gov". The page header includes the USGS logo and navigation links. The main content area is titled "2. Select Your Data Set(s)" and provides instructions for selecting data sets. A red box highlights the "Digital Elevation" and "SRTM" categories in the search results. The "SRTM 1 Arc-Second Global" option is checked. A map on the right shows the search area in South America, with a red pin indicating the location. The map coordinates are (12° 53' 51" S, 110° 02' 20" W).

EarthExplorer

USGS science for a changing world

EarthExplorer

Home Save Criteria Load Favorite Manage Criteria

Item Basket (0) avsoares@gmail.com RSS Feedback Help

Search Criteria Data Sets Additional Criteria Results

2. Select Your Data Set(s)

Check the boxes for the data set(s) you want to search. When done selecting data set(s), click the *Additional Criteria* or *Results* buttons below. Click the plus sign next to the category name to show a list of data sets.

Use Data Set Prefilter ([What's This?](#))

Data Set Search:

Digital Elevation

- ASTER GLOBAL DEM
- CoNED TBDEM
- EDNA
- GMTED2010
- GTOPO30
- GTOPO30 HYDRO 1K
- IFSAR Alaska
- LIDAR

SRTM

- SRTM 1 Arc-Second Global
- SRTM Non-Void Filled
- SRTM Void Filled
- SRTM Water Body Data

Digital Line Graphs

Digital Maps

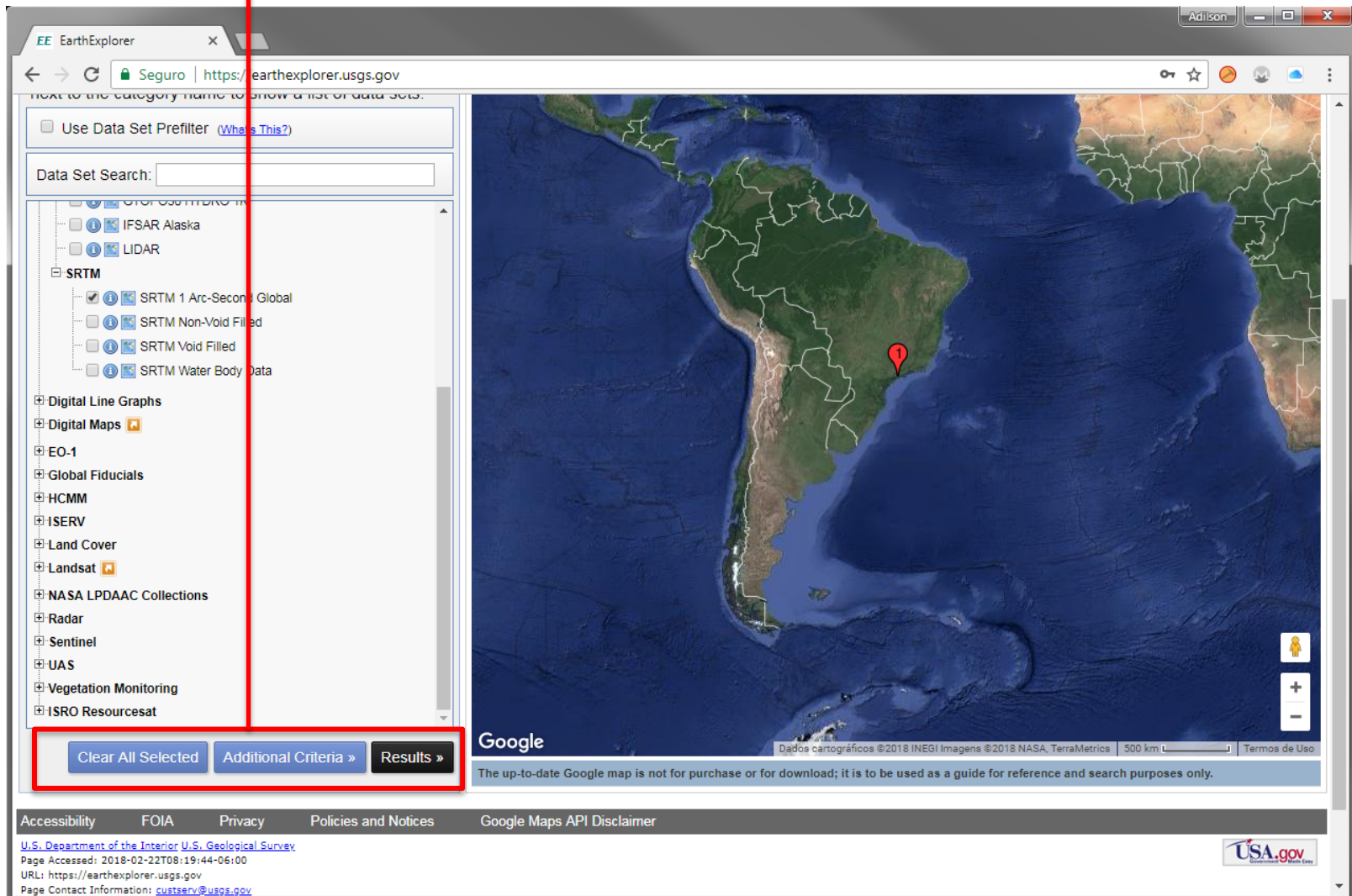
Search Criteria Summary (Show) Clear Criteria

Mapa Satélite

(12° 53' 51" S, 110° 02' 20" W) Options Overlays

Aquisição de dados: SRTM

Clicar no botão Results



The screenshot shows the EarthExplorer interface with the following elements:

- Browser:** Chrome browser window titled "EarthExplorer" with the URL <https://earthexplorer.usgs.gov>.
- Search Bar:** "Data Set Search:" field.
- Search Results:** A list of data sets under the "SRTM" category. The "SRTM 1 Arc-Second Global" data set is selected, indicated by a checked checkbox.
- Buttons:** At the bottom of the search results list, there are three buttons: "Clear All Selected", "Additional Criteria »", and "Results »". A red box highlights the "Results »" button.
- Map:** A satellite map of South America with a red location pin in the southeastern part of the continent.
- Footer:** Includes "Accessibility", "FOIA", "Privacy", "Policies and Notices", "Google Maps API Disclaimer", "U.S. Department of the Interior U.S. Geological Survey", "Page Accessed: 2018-02-22T08:19:44-06:00", "URL: https://earthexplorer.usgs.gov", "Page Contact Information: custserv@usgs.gov", and the "USA.gov" logo.

Aquisição de dados: SRTM

Uma imagem SRTM aparecerá.

The screenshot shows the EarthExplorer interface. The browser address bar displays <https://earthexplorer.usgs.gov>. The 'Data Set' dropdown menu is set to 'SRTM 1 Arc-Second Global'. A red box highlights the following information:

- « First ‹ Previous 1 ‹ Next ‹ Last »
- Displaying 1 - 1 of 1
- Entity ID: SRTM1S24W047V3
- Publication Date: 23-SEP-14
- Resolution: 1-ARC
- Coordinates: -24 , -47

Below the metadata is a small thumbnail image of the terrain. At the bottom of the highlighted area are navigation icons. The main map area shows a satellite view of South America with a red pin marker. The Google logo and copyright information are visible at the bottom of the map. The footer contains links for Accessibility, FOIA, Privacy, Policies and Notices, and Google Maps API Disclaimer, along with contact information for the U.S. Department of the Interior U.S. Geological Survey.

Aquisição de dados: SRTM

Clicar em Footprint para observar a abrangência da imagem.

The screenshot shows the EarthExplorer interface with the following details:

- Search Criteria Summary:** (23° 25' 40" S, 045° 25' 12" W)
- Data Set:** SRTM 1 Arc-Second Global
- Search Results:** 1 result displayed. Entity ID: SRTM1S24W047V3. Publication Date: 23-SEP-14. Resolution: 1-ARC. Coordinates: -24, -47.
- Map:** A satellite view of the São Paulo region with a blue footprint overlay centered on the city.

Aquisição de dados: SRTM

Clicar em Download Options.

The screenshot shows the EarthExplorer interface with the following details:

- Search Criteria Summary:** (23° 25' 40" S, 045° 25' 12" W)
- Data Set:** SRTM 1 Arc-Second Global
- Search Results:** 1 result displayed. Entity ID: SRTM1S24W047V3, Publication Date: 23-SEP-14, Resolution: 1-ARC, Coordinates: -24, -47.
- Download Options:** A red box highlights the download icon (a green arrow pointing down) in the row of icons below the search result.

The map shows a satellite view of the São Paulo region, with a blue shaded area indicating the search results. The interface includes navigation controls, a search bar, and a page expiration notice.

Aquisição de dados: SRTM

Baixar a imagem no formato GeoTIFF

The screenshot displays the EarthExplorer.usgs.gov interface. On the left, the 'Data Set' section shows 'SRTM 1 Arc-Second Global' with a thumbnail and metadata: Entity ID: SRTM1S24W047V3, Publication Date: 23-SEP-14, Resolution: 1-ARC, and Coordinates: -24, -47. A 'Download Options' dialog box is open over the map, listing three download choices: 'BIL 1 Arc-second (11.3 MB)', 'DTED 1 Arc-second (24.8 MB)', and 'GeoTIFF 1 Arc-second (24.8 MB)'. The 'GeoTIFF 1 Arc-second (24.8 MB)' option is highlighted with a red box. A red vertical line points from the text 'Baixar a imagem no formato GeoTIFF' to this option. The map shows a satellite view of South America with a red pin. The footer includes 'U.S. Department of the Interior U.S. Geological Survey' and 'USA.gov'.

EE EarthExplorer

Seguro | <https://earthexplorer.usgs.gov>

Show Result Controls

Data Set [Click here to export your results](#)

SRTM 1 Arc-Second Global

« First « Previous 1 Next » Last »

Displaying 1 - 1 of 1

1

Entity ID: SRTM1S24W047V3
Publication Date: 23-SEP-14
Resolution: 1-ARC
Coordinates: -24, -47

« First « Previous 1 Next » Last »

View Item Basket » Submit Standing Request »

Download Options

Download BIL 1 Arc-second (11.3 MB)

Download DTED 1 Arc-second (24.8 MB)

Download GeoTIFF 1 Arc-second (24.8 MB)

Google

Dados cartográficos ©2018 INEGI Imagens ©2018 NASA, TerraMetrics 500 km

The up-to-date Google map is not for purchase or for download; it is to be used as a guide for reference and search purposes only.

Accessibility FOIA Privacy Policies and Notices Google Maps API Disclaimer

U.S. Department of the Interior U.S. Geological Survey
Page Accessed: 2018-02-22T08:19:44-06:00
URL: <https://earthexplorer.usgs.gov>
Page Contact Information: custserv@usgs.gov

USA.gov

Aquisição de dados: Landsat

Selecionar imagem Landsat 8 → Clicar em Results

The screenshot shows the EarthExplorer interface on a web browser. The browser address bar displays "earthexplorer.usgs.gov". The main content area is divided into a left sidebar and a right map area. The sidebar contains a list of data categories, with "Landsat 8 OLI/TIRS C1 Level-1" selected and highlighted by a red box. A vertical red line is drawn through the sidebar. The map area shows a satellite view of South America with a red pin marker on the coast of Brazil. At the bottom of the sidebar, there are three buttons: "Clear All Selected", "Additional Criteria »", and "Results »". The Google logo and map data information are visible at the bottom of the map area.

Criteria or Results buttons below. Click the plus sign next to the category name to show a list of data sets.

Use Data Set Prefilter ([What's This?](#))

Data Set Search:

- ⊕ Digital Line Graphs
- ⊕ Digital Maps
- ⊕ EO-1
- ⊕ Global Fiducials
- ⊕ HCMM
- ⊕ ISERV
- ⊕ Land Cover
- ⊕ Landsat
- ⊕ Landsat Analysis Ready Data (ARD)
- ⊕ Landsat Collection 1 Level-2 (On-Demand)
- ⊕ Landsat Collection 1 Level-1
 - Landsat 8 OLI/TIRS C1 Level-1
 - Landsat 7 ETM+ C1 Level-1
 - Landsat 4-5 TM C1 Level-1
- ⊕ Landsat Pre-Collection Level-1
- ⊕ Landsat Legacy
- ⊕ NASA LPDAAC Collections
- ⊕ Radar
- ⊕ Sentinel
- ⊕ UAS
- ⊕ Vegetation Monitoring
- ⊕ ISRO Resourcesat

Clear All Selected Additional Criteria » Results »

Google

Map data ©2018 INEGI Imagery ©2018 NASA, TerraMetrics 500 km Terms of Use

The up-to-date Google map is not for purchase or for download; it is to be used as a guide for reference and search

Aquisição de dados: Landsat

Clicar em “Download Options”

The screenshot shows the EarthExplorer.usgs.gov web application. On the left, a sidebar displays a list of data sets under the heading "Data Set". The selected data set is "Landsat 8 OLI/TIRS C1 Level-1". Below this, four data set entries are listed, each with a thumbnail, ID, acquisition date, path, and row. The third entry is highlighted with a red box. A red vertical line points from the text "Clicar em 'Download Options'" to the download icon in the toolbar of this entry.

Thumbnail	ID	Acquisition Date	Path	Row	Download Options
	ID:LC08_L1TP_219076_20171217_20171224_01_T1	17-DEC-17	219	76	[Icons]
	ID:LC08_L1GT_219076_20171201_20171207_01_T2	01-DEC-17	219	76	[Icons]
	ID:LC08_L1TP_219076_20171115_20171122_01_T1	15-NOV-17	219	76	[Icons]
	ID:LC08_L1TP_219076_20171030_20171109_01_T1	30-OCT-17	219	76	[Icons]

Navigation: « First < Previous 1 > Next > Last »

Buttons: View Item Basket » Submit Standing Request »

Map: Google EarthExplorer showing South America with a red location pin. Map data ©2018 INEGI Imagery ©2018 NASA, TerraMetrics 500 km L Terms of Use

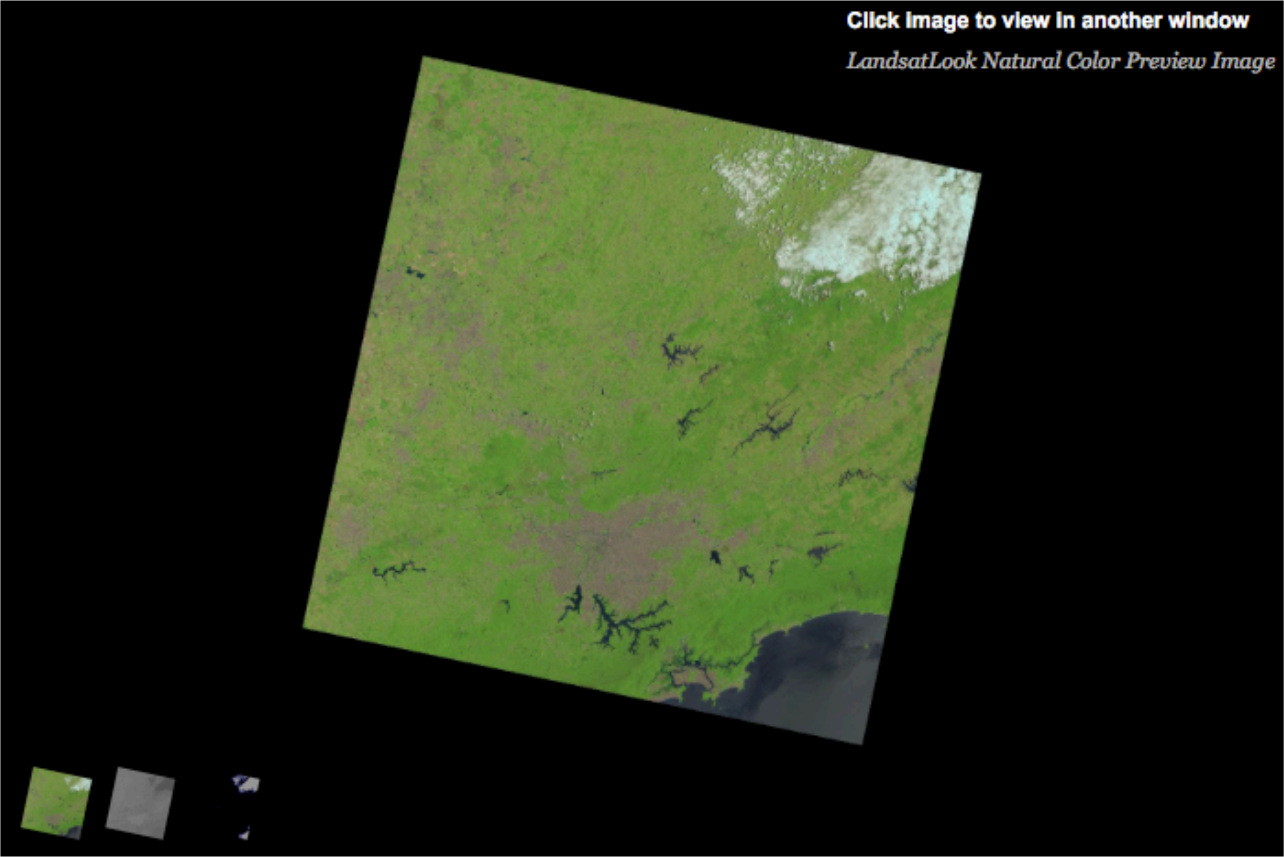
Footer: The up-to-date Google map is not for purchase or for download; it is to be used as a guide for reference and search

Aquisição de dados: Landsat

Escolher a imagem mais recente e sem nuvens sobre o município

Full Display of LC08_L1TP_219076_20171115_20171122_01_T1

Click image to view in another window
LandsatLook Natural Color Preview Image



Data Set Attribute Attribute Value

Open New Window Close

The image shows a satellite view of a landscape. The majority of the area is covered in green vegetation, likely a forest or agricultural land. There are several dark, winding lines representing water bodies or drainage channels. In the bottom right corner, there is a dark blue area representing a body of water. The image is tilted slightly clockwise. In the bottom left corner, there are three small thumbnail images: one showing the natural color view, one showing a grayscale view, and one showing a false-color view. The interface includes a title bar with the file name, a close button, and a table for data attributes at the bottom.

Aquisição de dados: Landsat

Baixar a imagem desta opção.

The screenshot shows the EarthExplorer.usgs.gov interface. A 'Download Options' dialog box is open, listing the following options:

- Download LandsatLook Natural Color Image (8.9 MB)
- Download LandsatLook Thermal Image (3.2 MB)
- Download LandsatLook Quality Image (714.5 KB)
- Download LandsatLook Images with Geographic Reference (12.8 MB)
- Download Level-1 GeoTIFF Data Product (935.9 MB)**

The background shows a map of South America with a red pin on the Amazon region. The left sidebar displays a list of data sets for 'Landsat 8 OLI/TIRS C1 Level-1' with details for four different acquisition dates: 17-DEC-17, 01-DEC-17, 15-NOV-17, and 30-OCT-17.

Aquisição de dados: Litologia

<http://www.cprm.gov.br/publique/Gestao-Territorial/Prevencao-de-Desastres/Cartas-de-Suscetibilidade-a-Movimentos-Gravitacionais-de-Massa-e-Inundacoes---Sao-Paulo-5088.html>



Página Inicial > Gestão Territorial > Prevenção de Desastres

Apresentação Geologia, Meio Ambiente e Saúde Geologia Aplicada Prevenção de Desastres Ações Especiais Gestão Territorial Difusão do Conhecimento

Cartas de Suscetibilidade a Movimentos Gravitacionais de Massa e Inundações - São Paulo

MUNICÍPIO	PRODUTOS	VETORIAIS / RASTER
Águas de Lindóia	Mapa - SIG - Produtos MDE	-
Águas de Prata	Mapa - SIG	-
Águas de São Pedro	Mapa - SIG (vetores) - Produtos MDE	-
Americana	Mapa	SIG (vetores) , Base Cartográfica , Imagens , Produtos MDE , Equações IDF