



MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO
INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

CWIC Report

National Institute for Space Research – INPE Brazil

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WGISS/CEOS – 42 Meeting, September 2016, Frascati, Italy

CBERS Program - Status

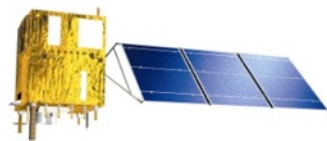
CBERS-3 was lost after a failure in the last stage of the launching rocket in 2013.

CBERS-4 was successfully launched in December 2014.

CBERS-4 images have been regularly acquired in Cuiabá.

Commissioning phase was executed from December 2015 to May 2016 to assess and validate CBERS-4 cameras.

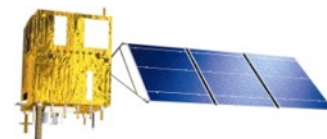
Images are available on the web (www2.dgi.inpe.br/CDSR).



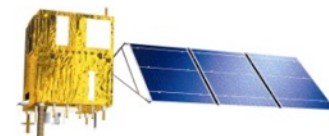
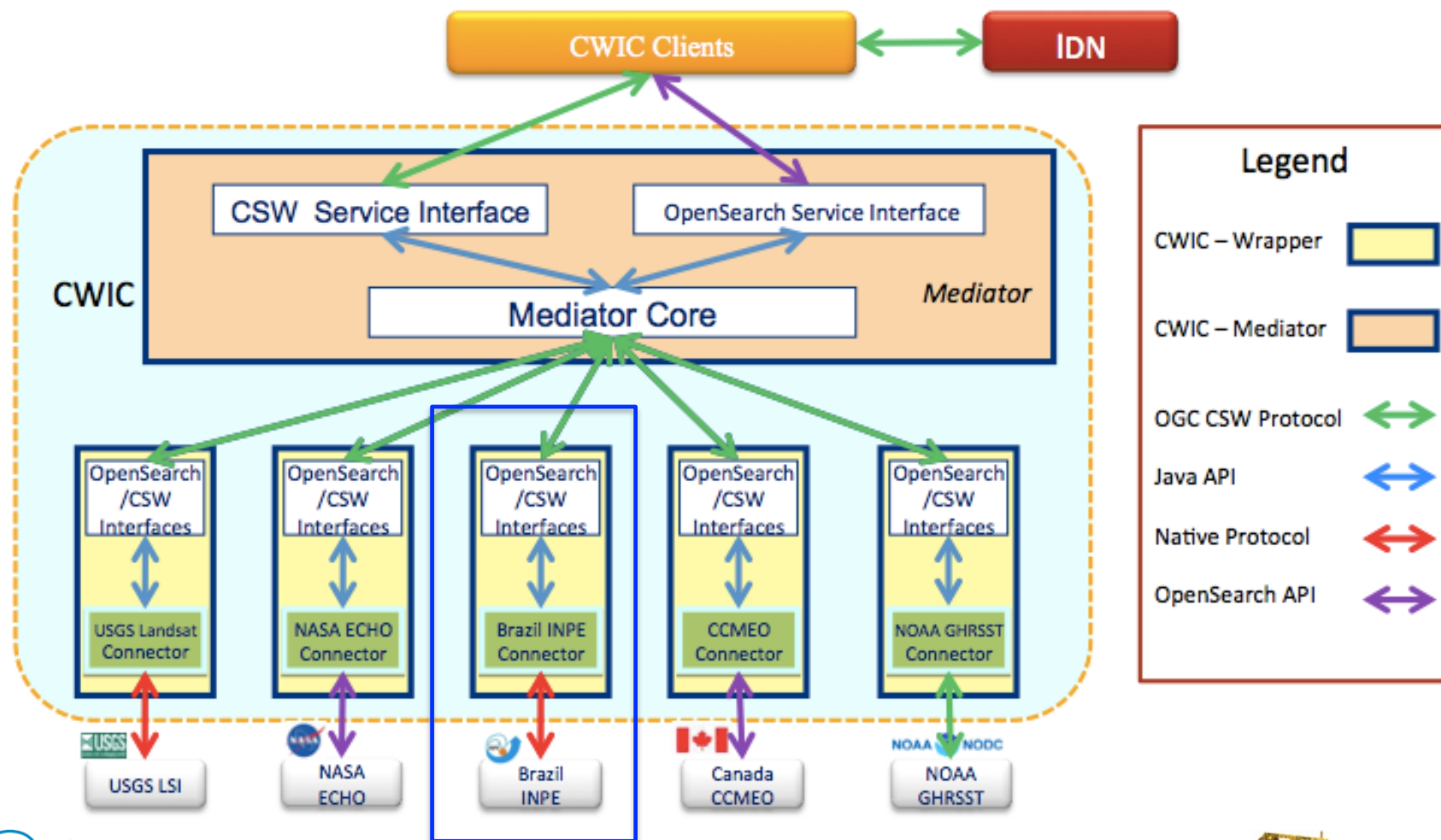
Distribution

Images are available on the web (www2.dgi.inpe.br/CDSR).

The screenshot displays the INPE CDSR web interface. At the top left is the INPE logo and the text "MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS". On the top right, there are flags for the USA, Spain, and Brazil, along with "Log in", "Cart", and "Help" links. Below the header is a navigation bar with "Selection", "Map", "List", and "Details" tabs. The "Selection" panel on the left includes filters for Dataset (All), Satellite (CBERS-4), Instrument (MUX), Seasonal, Start Date (2016-09-01), and End Date (2016-09-19). It also features "Maximum Cloud Coverage" sliders for Q1-Q4 and "Path/Row Range" input fields. The main map area shows a satellite image of South America with a grid of green location pins. The map includes labels for Colombia, Ecuador, Peru, Bolivia, and Brazil, along with various state names. A search bar and navigation controls are at the top of the map. The bottom right corner shows coordinates (-64.39, -59.03) and a scale bar.



CWIC Architecture



Inventory Service

INPE – Inventory Service

Last Update: August, 2016

The URL for the path/row search is:

<http://www.dgi.inpe.br/cwic/pathrow.php>? or

http://www.dgi.inpe.br/cwic_cb4/pathrow.php? for CBERS-4 dataset.

An example:

[http://www.dgi.inpe.br/cwic/pathrow.php?](http://www.dgi.inpe.br/cwic/pathrow.php?dataset=INPE_CBERS2B_CCD&start_path=153&end_path=153&start_row=100&end_row=101)

[dataset=INPE_CBERS2B_CCD&start_path=153&end_path=153&start_row=100&end_row=101](http://www.dgi.inpe.br/cwic/pathrow.php?dataset=INPE_CBERS2B_CCD&start_path=153&end_path=153&start_row=100&end_row=101)

The URL for the lat/long search is:

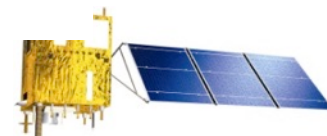
<http://www.dgi.inpe.br/cwic/latlong.php>? or

http://www.dgi.inpe.br/cwic_cb4/latlong.php? for CBERS-4 dataset

An example of the lat/long search is:

[http://www.dgi.inpe.br/cwic/latlong.php?](http://www.dgi.inpe.br/cwic/latlong.php?dataset=INPE_CBERS2_CCD&north=-22.5&south=-23.5&east=-45.5&west=-46.5)

[dataset=INPE_CBERS2_CCD&north=-22.5&south=-23.5&east=-45.5&west=-46.5](http://www.dgi.inpe.br/cwic/latlong.php?dataset=INPE_CBERS2_CCD&north=-22.5&south=-23.5&east=-45.5&west=-46.5)



CWIC Connector

CEOS Committee on Earth Observation Satellites



CEOS WGISS Integrated Catalog (CWIC)

Version 2 - Test page
CWIC TEST instance

Last updated: 2014-09-18

◆ GetRecords - Test Examples

CWIC GetRecords Options

Catalog ID **Dataset ID**

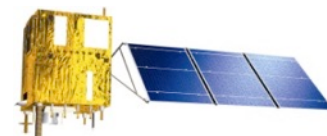
Start Record **Maximum Record**

Spatial West: East: South: North: **Temporal** Start: End:

Request hits brief summary full **Profile** Core ISO

[Click to build the CSW GetRecords query payload in XML](#)

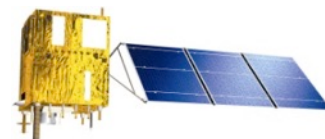
```
<ogc:Literal>INPE_CBERS4_MUX</ogc:Literal>
</ogc:PropertyIsEqualTo>
<ogc:PropertyIsGreaterThanOrEqualTo>
  <ogc:PropertyName>dct:coverage.dateStart</ogc:PropertyName>
  <ogc:Literal>2016-02-11T00:00:00.000Z</ogc:Literal>
</ogc:PropertyIsGreaterThanOrEqualTo>
<ogc:PropertyIsLessThanOrEqualTo>
```



OpenSearch



The screenshot shows a web browser window with the URL www.dpi.inpe.br/opensearch/atom/granule?bbox=-70,-50,-20,0. The browser's address bar includes navigation icons and a search box labeled "Pesquisar". Below the address bar, there are tabs for "Mais visitados", "Primeiros passos", and "OS Scene". The main content area features a heading "OS Scene" followed by a detailed description: "Entity ID: CB4MUX15609820160920, Satellite: CB4, Sensor: MUX, Acquisition Date: 2016-09-20" and "20 de setembro de 2016 19:25". Below this text is a large satellite image showing a dense forest canopy with bright highlights, likely representing a specific geographic area.



Next Steps

Finish the registering of other datasets:

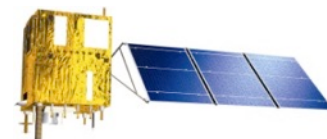
INPE_CBERS4_AWFI (not registered in CMR)

INPE_CBERS4_PAN5M (not registered in CMR)

INPE_CBERS4_PAN10M (not registered in CMR)

INPE_CBERS4_IRS (not registered in CMR)

INPE_CBERS4_MUX (conceptId in GCMD: C1246144386-SCIOPS)

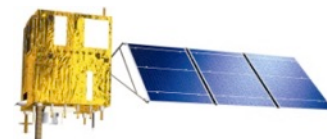


Next Steps

Complete the testing and integration of CBERS-4 dataset in CWIC Connector

Waiting for the CBERS catalogues unification

Complete the OpenSearch endpoint considering the EO Standard and the Best Practices documents





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OBRIGADO. GRAZIE.