



# GIOVANNI

**GES-DISC (GODDARD EARTH SCIENCES DATA AND INFORMATION SERVICES CENTER) INTERACTIVE ONLINE VISUALIZATION AND ANALYSIS INFRASTRUCTURE.**

# La page d'accueil

Avec une liste complète des divers types de données satellites consultables

**NASA** National Aeronautics and Space Administration | Goddard Earth Sciences Data and Information Services Center

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+ ATMOS COMPOSITION | + HYDROLOGY | + A-TRAIN | + AIRS | + HURRICANES | + NEESPI | + PRECIPITATION

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## Giovanni

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**Giovanni**  
The Bridge Between Data and Science

**GIOVANNI**

Giovanni is a Web-based application developed by the GES DISC that provides a simple and intuitive way to visualize, analyze, and access vast amounts of Earth science remote sensing data without having to download the data.

Giovanni is comprised of a number of interfaces, called instances, each tailored to meet the needs of different Earth science research communities.

- Atmospheric Instances:** A-Train along CloudSat Track; Aerosol Optical Thickness Measurement and Model Comparison *Daily* and *Monthly*; MISR *Daily* and *Monthly*; Aqua/AIRS Global *Daily* and *Monthly*; MODIS Terra and Aqua *Daily* and *Monthly*; Aura OMI Level 3 and Level 2G; Aura Microwave Limb Sounder (MLS); Aura High Resolution Dynamics Limb Sounder (HIRDLS); Earth Probe and Nimbus-7 TOMS; Upper Atmosphere Research Satellite (UARS) Halogen Occultation Experiment (HALOE).
- Environmental Instances:** Air Quality; Agriculture; Northern Eurasia Earth Science Partnership Initiative (NEESPI) *Daily* and *Monthly*
- Ocean Instances:** Ocean Color; Ocean Color Radiometry (SeaWiFS, MODIS, and derived and model products in both instances)
- Hydrology Instances:** MODIS Terra and Aqua *Daily* and *Monthly*; TRMM Online Visualization and Analysis System (TOVAS); Northern Eurasia Earth Science Partnership Initiative (NEESPI) *Daily* and *Monthly*; MERRA 3D *Monthly* and 2D *Monthly*

A-Train	Aerosol Daily	Aerosol Monthly	Agriculture	AIRS Daily
AIRS Monthly	Air Quality	HALOE	HIRDLS	MERRA 3D
MERRA 2D	MISR Daily	MISR Monthly	MLS	MODIS Daily
MODIS Monthly	Ocean Color	Ocean Color Rad	NEESPI Daily	NEESPI Monthly
OMI	OMI L2G	TOMS	TRMM	

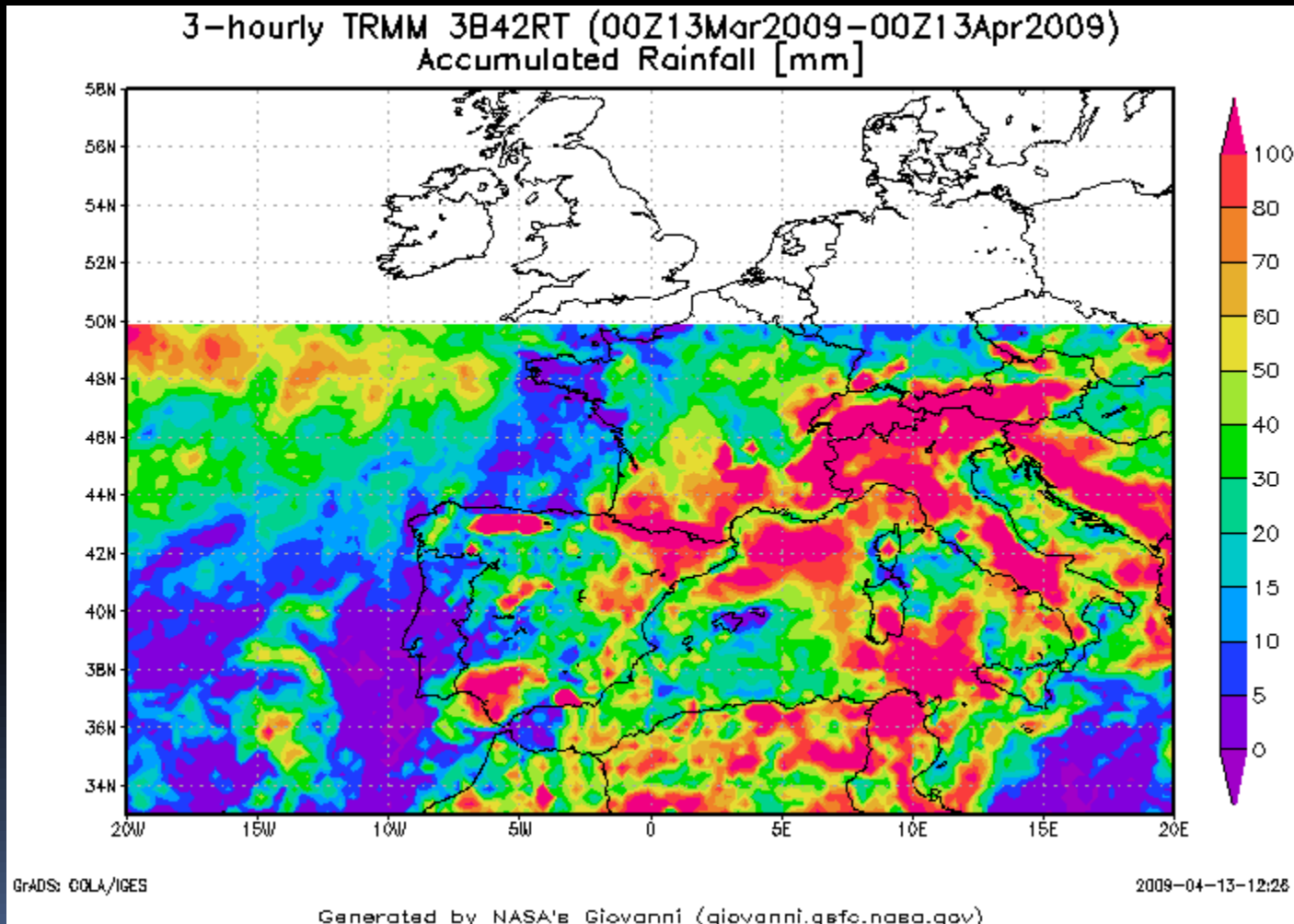
MORE information for beginning Giovanni users!

**LATEST NEWS**

**04.06.09 - INSAM features Giovanni instances**  
INSAM, the International Society for Agricultural Meteorology, recently featured several Giovanni instances, including the new MERRA 2D and 3D instances, on their Web site.  
[+ Read More](#)

**04.06.09 - Chapter about NEESPI in new book**  
A chapter about the NASA NEESPI data portal appears in a new book published by Springer, entitled Regional Aspects of Climate-Terrestrial-Hydrologic Interactions in Non-boreal Eastern Europe. The book features papers from the NEESPI-NATO joint

Exemple de données disponibles (TRMM, précipitations sur 3 heures).  
Téléchargeables en version 2D.

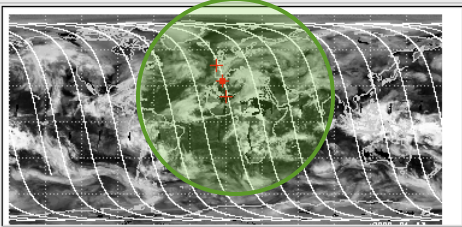


Avec l'exemple du A-train.

- 1°) Choisir « the spatial map view »
- 2°) Choisir la date du passage du satellite
- 3°) Sélectionner les paramètres souhaités
- 4°) Générer les images correspondantes (format HDF, ASCII ou KMZ).

lect:

Spatial



Map View: Ascending Orbits Range (kilometers) 3000

Temporal

Orbit Date Year 2009 Month Jan Day 13 Update Map (Range: 01 Jun 2006 - 13 Apr 2009)

Help with temporal availability.

Parameters

Display:  Data Product Info  Units  Parameters with > 2 Dimensions

Curtaains

- Temperature(2002/08/30 - 2009/04/12)
  - Atmospheric Temperature Profile
  - Atmospheric Temperature Profile
  - Atmospheric Temperature Profile
  - Atmospheric Temperature Profile
- Water Vapor(2002/08/30 - 2009/04/12)
  - H2O Saturation Mass Mixing Ratio
  - H2O Vapor Mass Mixing Ratio
  - Relative Humidity wrt Ice
  - Retrieved Dew Point Temperature Profile
  - Specific Humidity Profile
- Clouds(2004/08/08 - 2009/04/11)
  - Cloud/Aerosol Classification (Vertical Feature Mask)
  - Cloud Scenario
  - Ice Water Content
  - Ozone Mixing Ratio Profile

Parameter	Data Product Info		
ECMWF_AUX.008	ECMWF model		2006/06/15 - 2009/04/05
ML2T.002	MLS		2004/08/08 - 2009/04/11
MAC07S0.002	MODIS Aqua		2006/06/02 - 2009/04/12
AIRX2RET.005	AIRS Aqua		2002/08/30 - 2009/04/12

Parameter	Data Product Info		
AIRX2RET.005	AIRS Aqua		2002/08/30 - 2009/04/12
AIRX2RET.005	AIRS Aqua		2002/08/30 - 2009/04/12
ML2RHI.002	MLS		2004/08/08 - 2009/04/11
MAC07S0.002	MODIS Aqua		2006/06/02 - 2009/04/12
ECMWF_AUX.008	ECMWF model		2006/06/15 - 2009/04/05

Parameter	Data Product Info		
VFM.002	Calipso - Lidar		2006/06/13 - 2009/02/16
2B_CLDCLASS.009	CloudSat		2006/06/15 - 2009/04/04
ML2IWC.002	MLS		2004/08/08 - 2009/04/11
ML2O3.002	MLS		2004/08/08 - 2009/04/11

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# La page de traitement des données



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## A-Train Along CloudSat Track Instance

CloudSat, MLS, CALIPSO lidar, and coregistered MODIS/Aqua, AIRS/Aqua, OMI/Aura, POLDER/PARASOL, and ECMWF data.

- [Home](#)
- [Result #1](#)
- [Results #2](#)
- [Remove All](#)

### Execution Status

StepNumber	Operation	Status	StartTime	CompletionTime
1	Data Fetching	COMPLETE	Mon Apr 13 12:39:34 GMT 2009	Mon Apr 13 12:39:58 GMT 2009
2	Altitude to Pressure Conversion	COMPLETE	Mon Apr 13 12:39:58 GMT 2009	Mon Apr 13 12:39:59 GMT 2009
3	Swath Stitcher	COMPLETE	Mon Apr 13 12:39:59 GMT 2009	Mon Apr 13 12:40:08 GMT 2009
4	Across-Track Swath Subsetter	Active	Mon Apr 13 12:40:08 GMT 2009	
5	Along-Track Swath Subsetter	pending		
6	Feature Profiling Service	pending		
7	HDF Scaling Service	pending		
8	Swath Strip Rendering Service	pending		
9	Swath Center Pixel Extractor	pending		
10	HDF Scaling Service	pending		
11	Curtain Plot Renderer	pending		



Responsible NASA Official: [Steven.J.Kempler@nasa.gov](mailto:Steven.J.Kempler@nasa.gov)  
Web Curator: [Anthony Drake <web-contact-disc@listserv.gsfc.nasa.gov>](mailto:Anthony Drake <web-contact-disc@listserv.gsfc.nasa.gov>)

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# Exemple de profil vertical obtenu pour le SO2 dans la basse troposphère.

Les plus visités | Débuter avec Firefox | A la une

## A-Train Along CloudSat Track Instance

CloudSat, MLS, CALIPSO lidar, and coregistered MODIS/Aqua, AIRS/Aqua, OMI/Aura, POLDER/PARASOL, and ECMWF data.

Home Results #1 Remove All

Visualization Results Download Data Acknowledgment Policy

SO2 Column Amount (Lower Troposphere) (OMI Aura)

13-Jan-2009 13:27:17 - 13:34:33 GMT

Go to the TOP to download data or view product lineage | Edit Plot Preferences

Refine Constraints [ Top ]:

Temporal

Start Time Hour 13 (0-23) Minute 20 (0-59) Second 05 (0-59)

Stop Time Hour 13 (0-23) Minute 27 (0-59) Second 21 (0-59)

Help with temporal availability.

Edit Preferences [ Top ]:

Plot Preferences

Image Width	700	Set the width of the plot image (in pixels)
Image Height	500	Set the height of the plot image (in pixels)
nticks	5	
Convert Altitude to Pressure?	<input type="radio"/> Yes <input checked="" type="radio"/> No	For profile parameters, convert altitude units (km,m) to pressure units (hPa)
SO2 Column Amount (Lower Troposphere) (OMS02_CPR.003) <a href="#">Return to plot</a>	Parameter Min 0.0 Parameter Max 5.0 parameterLogScale 0	Set parameter preference values

Submit Refinements Reset

Responsible NASA Official: [Steven.J.Kempler@nasa.gov](mailto:Steven.J.Kempler@nasa.gov)  
Web Curator: [Anthony.Drake\\_web\\_contact\\_disc@listserv.gsfc.nasa.gov](mailto:Anthony.Drake_web_contact_disc@listserv.gsfc.nasa.gov) + Contact Us

Terminé

Les formats Hdf, Ncd, Asc et kmz peuvent être téléchargés pour ensuite être utilisés ou visualisés avec des logiciels SIG.

## Daily Aerosol Optical Thickness Measurement and Model Comparison

Beta Version

[Home](#)

Results #1

[Remove All](#)

[Visualization Results](#)

**[Download Data](#)**

[Product Lineage](#)

[Acknowledgment Policy](#)

Download source data products and data products derived from Giovanni processing stages. For simplicity purposes, only the initial retrieval and final rendering phases are currently accessible for downloading. Supported download formats are HDF, NetCDF(NCD), ASCII, and KMZ. To **download multiple files** at once, select the desired files (from any section) by clicking on their associated checkboxes, and then click 'Download in Batch'. **Note:** that 'n/a' means that a file size or other column value is not available; 'saa' means that a file is exactly the same as the previous one in the list. Also, not all services and data products support all download file formats.

### Initial Data Retrieval

[Download in Batch](#)

Data Product	Start Time	File Size (b)	Download Files		
			<input type="checkbox"/> HDF	<input type="checkbox"/> NCD	<input type="checkbox"/> ASC
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-15T00:00:00Z	131591	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-16T00:00:00Z	126645	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-17T00:00:00Z	129796	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-18T00:00:00Z	132542	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-19T00:00:00Z	132933	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-20T00:00:00Z	131211	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Two Dimensional Map Plot

[Download in Batch](#)

Input Files	Start Time	File Size (b)	Download Files
MOD08_D3.005 (Optical_Depth_Land_And_Ocean_Mean)	2009-01-10T00:00:00Z	12885	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Output Files			KMZ
Optical_Depth_Land_And_Ocean_Mean.MOD08_D3.005.AreaMap.2009-01-10.gif		66046	<input type="checkbox"/>

Il est possible de superposer de nombreuses couches de fichiers kmz, en 2D projetés ou en 3D (exemple avec les données de CALIPSO).

