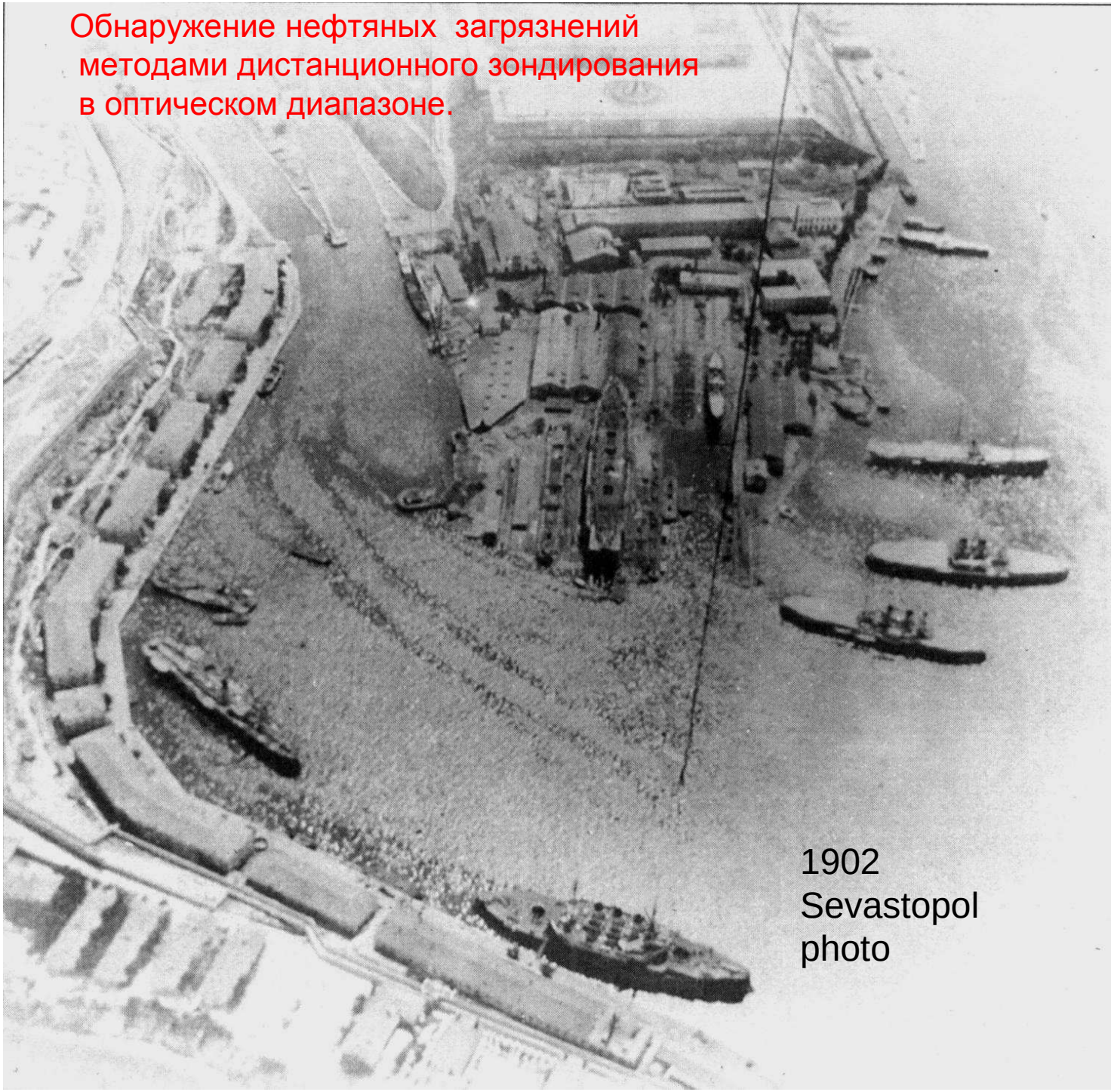
Современные Интернет-архивы спутниковых и метеорологических данных, примеры использования для контроля процессов и явлений в окружающей среде

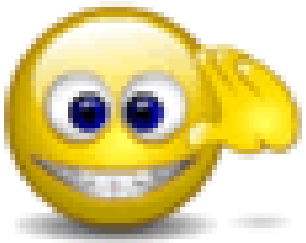
Remote Sensing – it’s easy!!!!

Станичный Сергей

Обнаружение нефтяных загрязнений
методами дистанционного зондирования
в оптическом диапазоне.



1902
Sevastopol
photo



СЕВАСТОПОЛЬ –
ПИОНЕР ДЗЗ

Internet archives of NASA, NOAA, USGS, ESA

Вы имеете свободный доступ к данным дистанционного зондирования и восстановленным продуктам.

Вы можете использовать специальные on-line инструменты для выборки визуализации и сохранения данных в нужных форматах.

Вы можете легко построить карты или временные ряды для выбранных участков и временных интервалов.

OceanColor Home Page - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://oceancolor.gsfc.nasa.gov/

Most Visited Getting Started Latest Headlines

OceanColor Home Page

Data Access

Data Distribution Status

All systems nominal

NOTE: FTP connections must be made in PASSIVE mode

Level 1 and 2 Browser

Visually search the ocean color data archive. Directly download or order data from a single file to an entire mission.

Level 3 Browser

Browse the entire global ocean color data set for many parameters and time periods and download PNG images or digital data in HDF format.

Global Time Series

Time series plots of selected SeaWiFS, MODIS and OCTS Standard Mapped Images for a set of selected regions or the entire globe.

Data Archive

Access to the complete data archive via an 'FTP-like' directory structure. This replaces most of the functionality of the FTP server. Retrieval of data in bulk is possible with this new server.

Ocean Productivity

Ocean Net Primary Productivity data products derived from MODIS and/or SeaWiFS data available from Oregon State University.

Giovanni

An easy-to-use, Web-based interface for the visualization and analysis of Earth Science data provided by the GES DISC DAAC.

Ocean Color Feature

Recent topics and imagery of interest to the OceanColor community.

Transatlantic Dust

So far this spring, higher than average quantities of dust have been riding the trade winds from northern Africa to South America and the Caribbean. A sequence of twelve days of SeaWiFS data shows the tan-colored atmosphere in a wide band that stretches unbroken all the way across the Atlantic Ocean.

Image Gallery

NOTE: All SeaWiFS images presented here are for research and educational use only. All commercial use of SeaWiFS data must be coordinated with GeoEye

Ocean Color Distribution Statistics

Support Services

SeaDAS

A comprehensive image analysis package for the processing, display, analysis, and quality control of ocean color data.

SeaBASS

An archive of *in situ* oceanographic and atmospheric data for use in algorithm development and satellite data product validation.

Registration for support services:

- Data access and Subscriptions
- Forgotten password
- Email change
- SeaWiFS Access Authorization

Near Real-Time (NRT) Services:

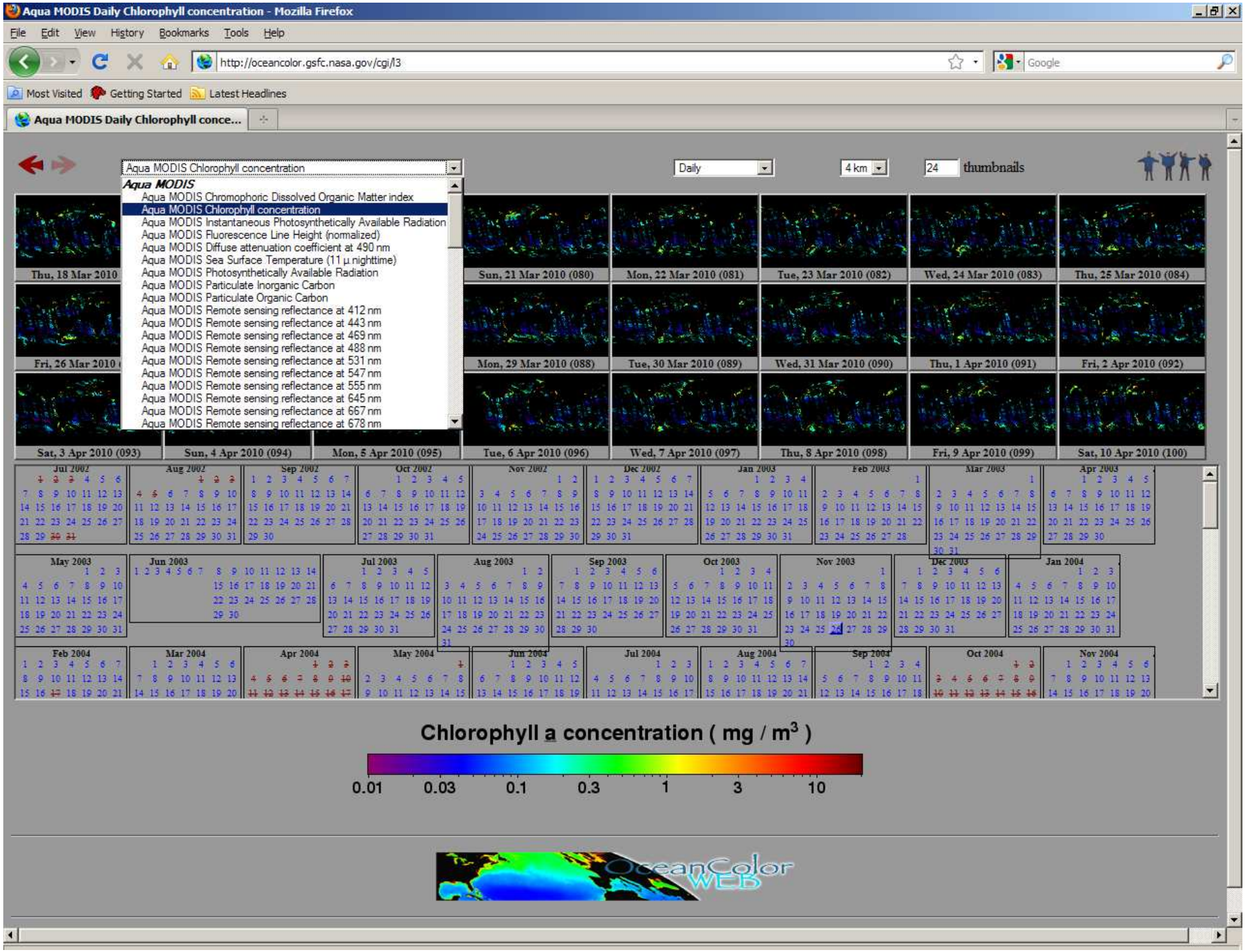
- NRT Data Subscriptions
  Subscriptions allow users to specify regions for NRT data to be continually staged on our FTP server for download.

Information Services:

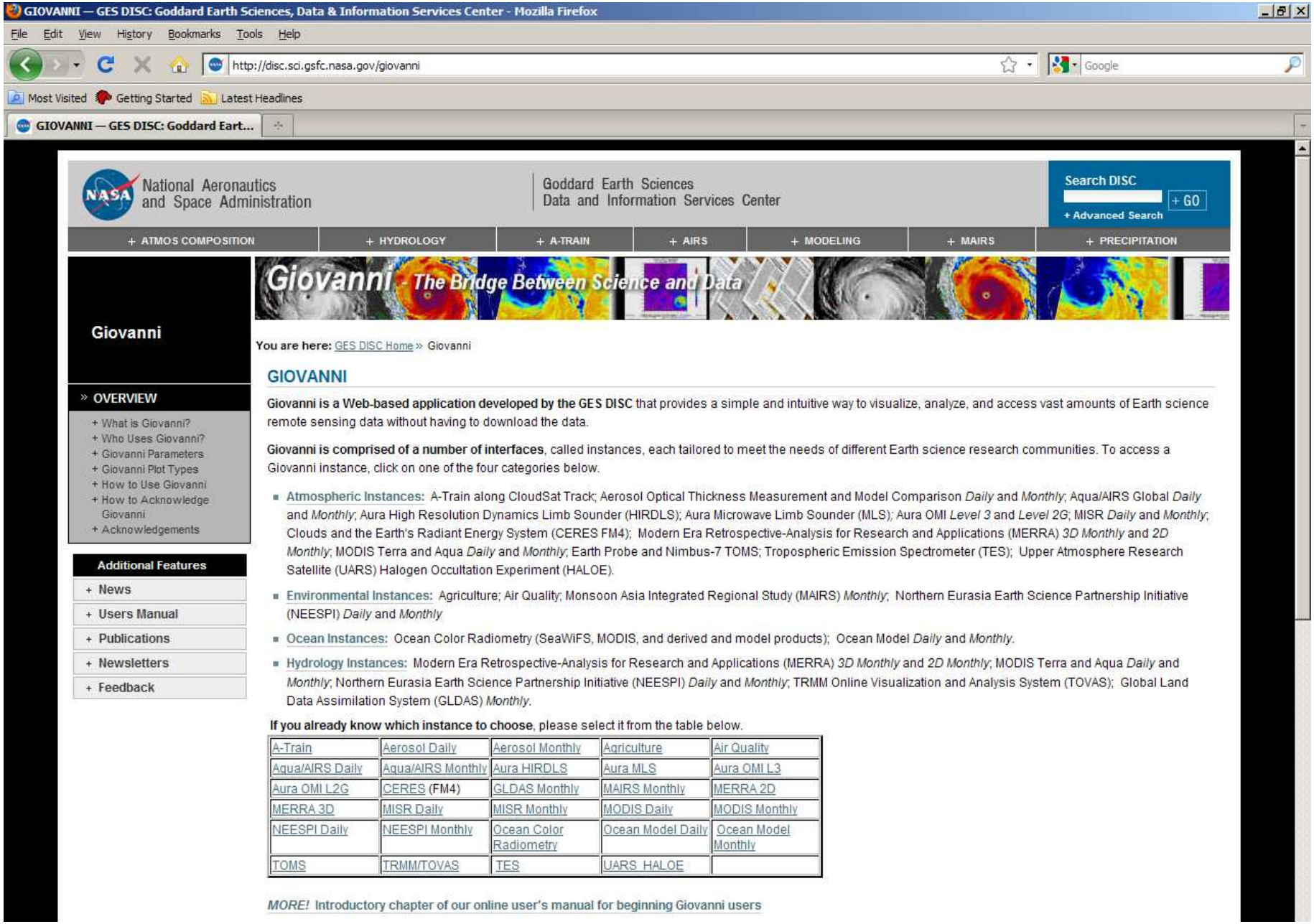
- Ocean Color Forum
- Ocean Color Mailing List
- Ocean Color Data Processing

Other Services:

- Satellite Overflight Predictions
- SeaWiFS LAC scheduling
- Data subscription status
- L1/L2 browser order status
- File Search Utility
  Search for satellite and ancillary data archived by the ocean color data production system.


Aqua MODIS Daily Chlorophyll concentration - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://oceancolor.gsfc.nasa.gov/cgi/l3
Most Visited Getting Started Latest Headlines
Aqua MODIS Daily Chlorophyll conce...
Aqua MODIS Chlorophyll concentration
Daily
4 km
24 thumbnails
Aqua MODIS
Aqua MODIS Chromophoric Dissolved Organic Matter index
Aqua MODIS Chlorophyll concentration
Aqua MODIS Instantaneous Photosynthetically Available Radiation
Aqua MODIS Fluorescence Line Height (normalized)
Aqua MODIS Diffuse attenuation coefficient at 490 nm
Aqua MODIS Sea Surface Temperature (11 µ nighttime)
Aqua MODIS Photosynthetically Available Radiation
Aqua MODIS Particulate Inorganic Carbon
Aqua MODIS Particulate Organic Carbon
Aqua MODIS Remote sensing reflectance at 412 nm
Aqua MODIS Remote sensing reflectance at 443 nm
Aqua MODIS Remote sensing reflectance at 469 nm
Aqua MODIS Remote sensing reflectance at 488 nm
Aqua MODIS Remote sensing reflectance at 531 nm
Aqua MODIS Remote sensing reflectance at 547 nm
Aqua MODIS Remote sensing reflectance at 555 nm
Aqua MODIS Remote sensing reflectance at 645 nm
Aqua MODIS Remote sensing reflectance at 667 nm
Aqua MODIS Remote sensing reflectance at 678 nm
Thu, 18 Mar 2010
Sun, 21 Mar 2010 (080)
Mon, 22 Mar 2010 (081)
Tue, 23 Mar 2010 (082)
Wed, 24 Mar 2010 (083)
Thu, 25 Mar 2010 (084)
Fri, 26 Mar 2010
Mon, 29 Mar 2010 (088)
Tue, 30 Mar 2010 (089)
Wed, 31 Mar 2010 (090)
Thu, 1 Apr 2010 (091)
Fri, 2 Apr 2010 (092)
Sat, 3 Apr 2010 (093)
Sun, 4 Apr 2010 (094)
Mon, 5 Apr 2010 (095)
Tue, 6 Apr 2010 (096)
Wed, 7 Apr 2010 (097)
Thu, 8 Apr 2010 (098)
Fri, 9 Apr 2010 (099)
Sat, 10 Apr 2010 (100)
Jul 2002
Aug 2002
Sep 2002
Oct 2002
Nov 2002
Dec 2002
Jan 2003
Feb 2003
Mar 2003
Apr 2003
May 2003
Jun 2003
Jul 2003
Aug 2003
Sep 2003
Oct 2003
Nov 2003
Dec 2003
Jan 2004
Feb 2004
Mar 2004
Apr 2004
May 2004
Jun 2004
Jul 2004
Aug 2004
Sep 2004
Oct 2004
Nov 2004
Chlorophyll a concentration (mg / m3)
0.01 0.03 0.1 0.3 1 3 10
OceanColor WEB

http://disk.sci.gsfc.nasa.gov/giovanni



Giovanni - Ocean Color Radiometry Online Visualization and Analysis - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=ocean_month

Most Visited Getting Started Latest Headlines

Giovanni - Ocean Color Radiometry ...

Spatial

Cursor Coordinates: -54.49219, -19.33594

Area of Interest: West: 24.2578125 North: 50.9765625 South: 31.2890625 East: 47.4609375 Update Map

Parameters

Display: Data Product Info | Climatology Info | Units | Only Parameters with Climatology

Analysis Options: Parameter | Climatology | Anomaly | Show Notes...

SeaWiFS.R2009(1997/09/01 - 2010/03/31)

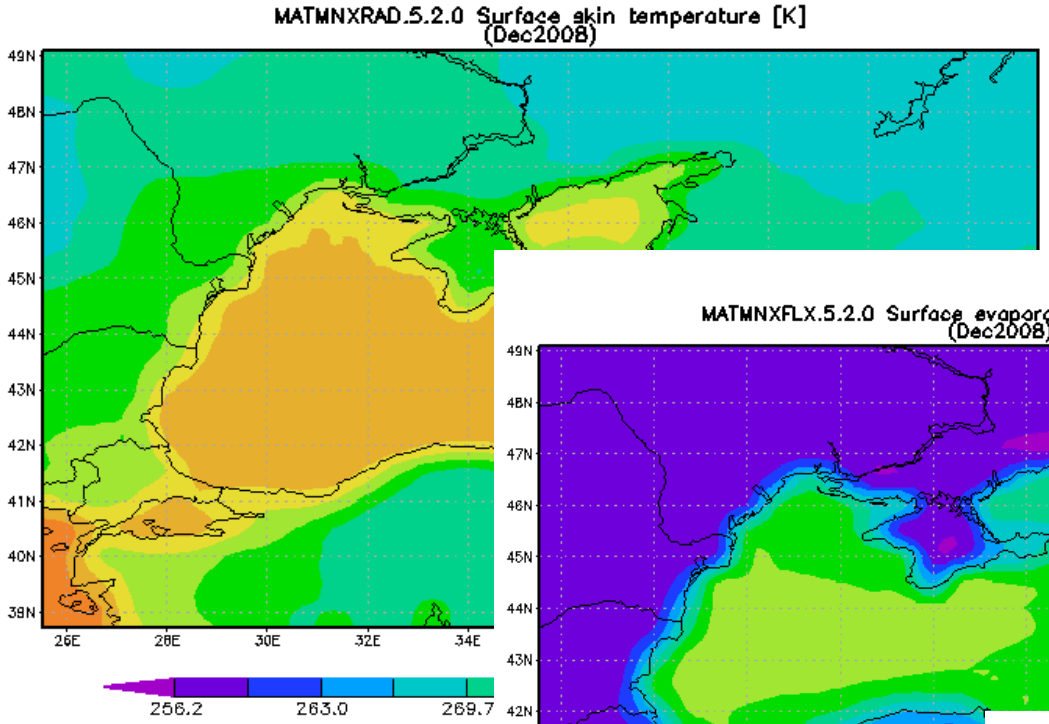
Angstrom coefficient	SWFMO_angstrom.R2009	SeaWiFS	1997/09 - 2010/03
Chlorophyll a concentration	SWFMO_CHLO.R2009	SeaWiFS	1997/09 - 2010/03
Colored Disolved Organic Matter (CDOM) Index	SWFMO_CDOM.R2009	SeaWiFS	1997/09 - 2010/03
Diffuse attenuation coefficient at 490 nm	SWFMO_K490.R2009	SeaWiFS	1997/09 - 2010/03
Particulate Inorganic Carbon	SWFMO_PIC.R2009	SeaWiFS	1997/09 - 2010/03
Particulate Organic Carbon	SWFMO_POC.R2009	SeaWiFS	1997/09 - 2010/03
Photosynthetically Available Radiation	SWFMO_PAR.R2009	SeaWiFS	1997/09 - 2010/03

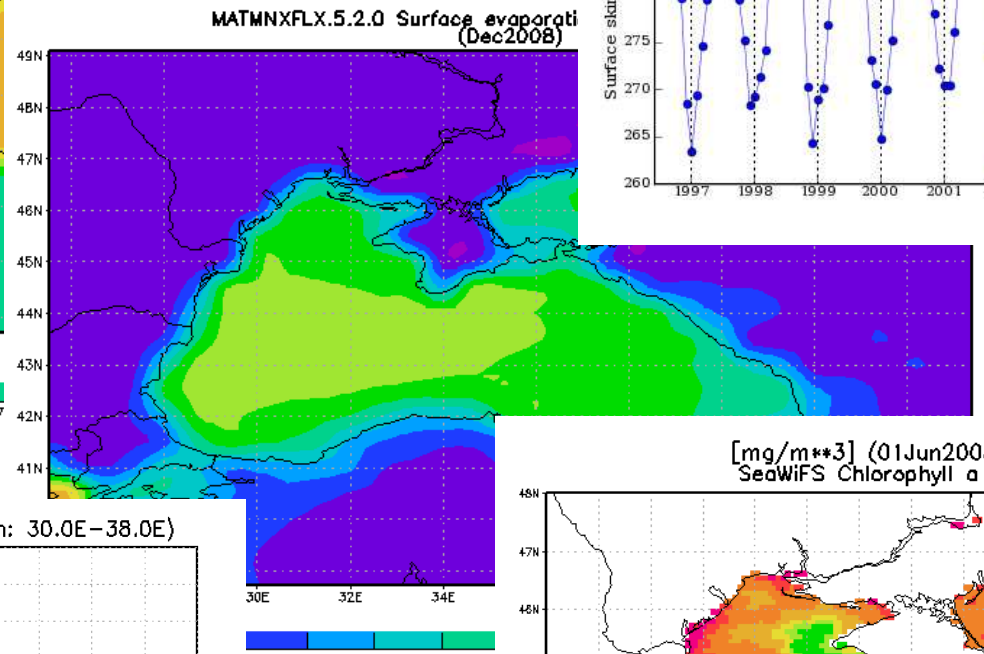
SeaWiFS.R5.2(1997/09/01 - 2009/07/01)

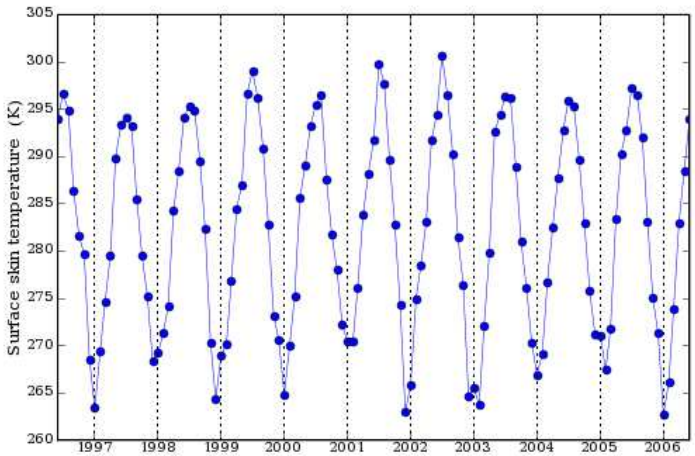
Parameter	Data Product Info		
Aerosol optical thickness at 865 nm	SWFMOT865.005	SeaWiFS	1997/09 - 2009/07
Angstrom coefficient 510 to 865 nm	SWFMOA510.005	SeaWiFS	1997/09 - 2009/07
Chlorophyll a concentration	SWFMOCHLO.005	SeaWiFS	1997/09 - 2009/07
Diffuse attenuation coefficient at 490 nm	SWFMOK490.005	SeaWiFS	1997/09 - 2009/07
Epsilon of aerosol correction at 765 and 865 nm	SWFMOEPS78.005	SeaWiFS	1997/09 - 2009/07
Normalized water leaving radiance at 412 nm	SWFMOL412.005	SeaWiFS	1997/09 - 2009/07

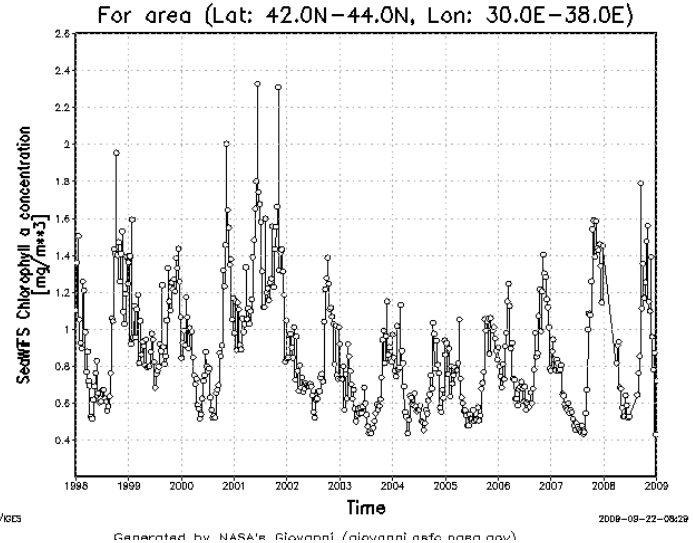
MODIS-Aqua.R1.1(2002/07/01 - 2010/03/01)

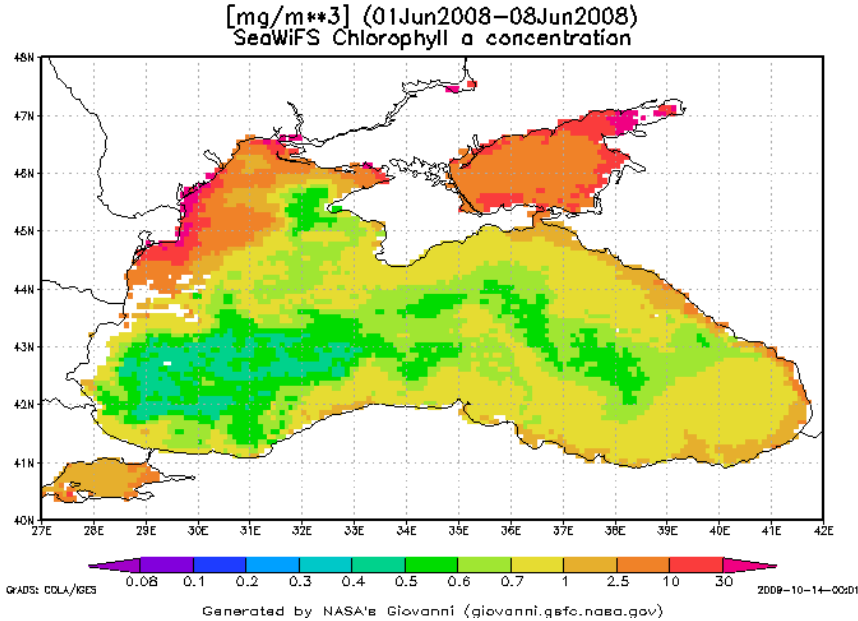
Parameter	Data Product Info		
Aerosol optical thickness at 869 nm	MAMOT869.001	MODIS-Aqua	2002/07 - 2010/01
Angstrom coefficient 531 to 869 nm	MAMOA531.001	MODIS-Aqua	2002/07 - 2010/01
Chlorophyll a concentration	MAMOCHLO.001	MODIS-Aqua	2002/07 - 2010/01

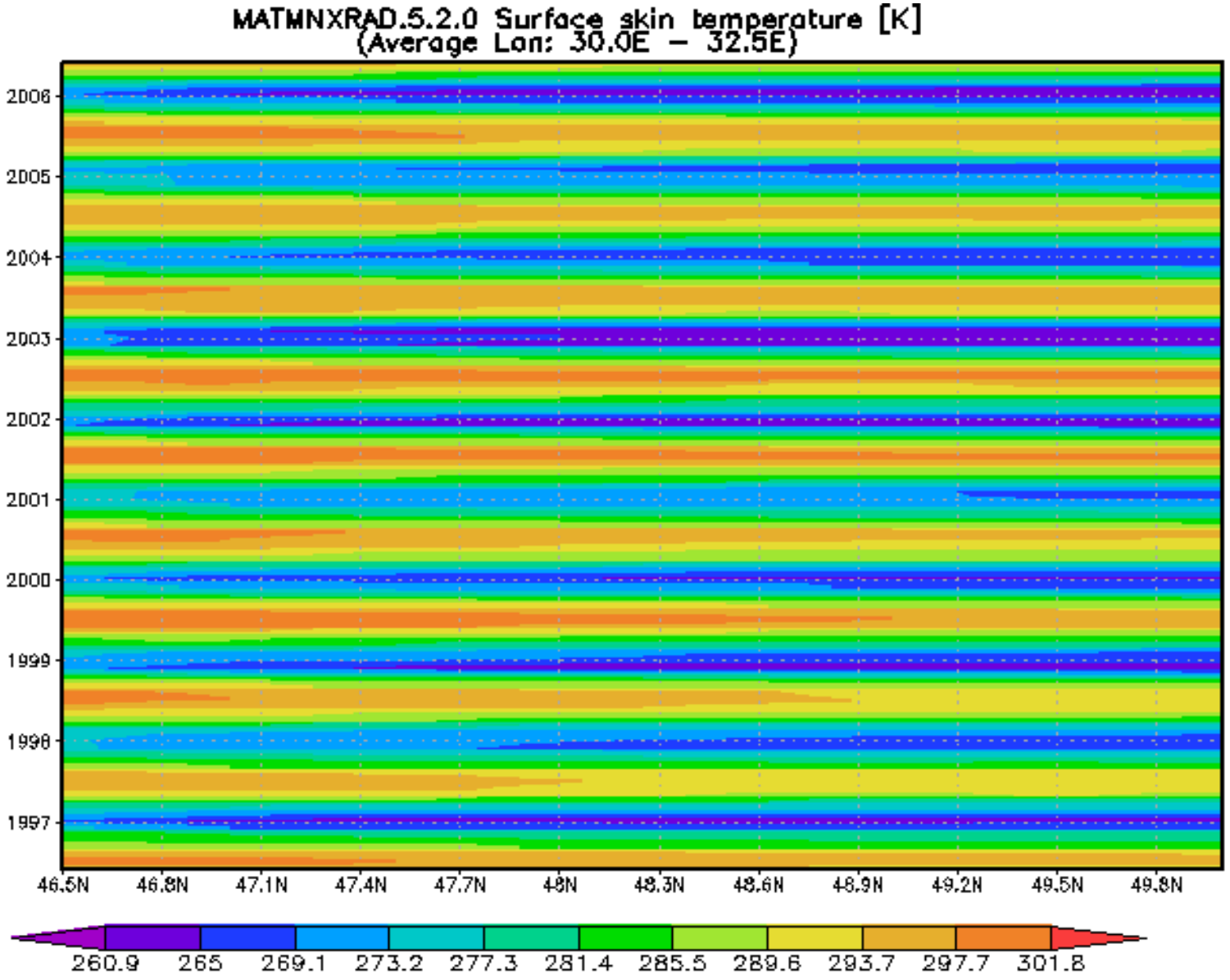

MATMNXRAD.5.2.0 Surface skin temperature [K]
(Dec2008)
49N
48N
47N
46N
45N
44N
43N
42N
41N
40N
39N
26E
28E
30E
32E
34E
256.2
263.0
269.7

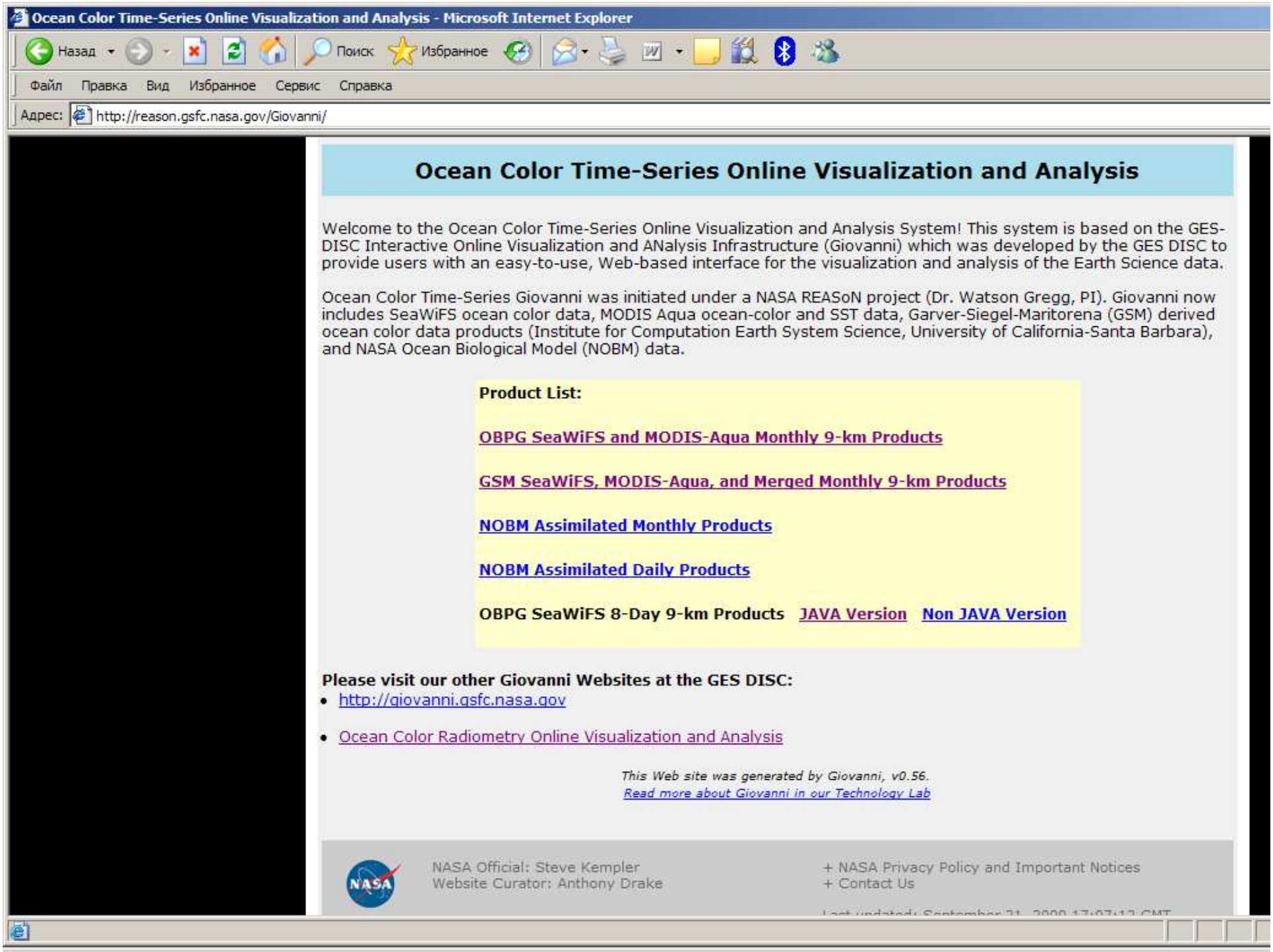

MATMNXFLX.5.2.0 Surface evaporati
(Dec2008)
49N
48N
47N
46N
45N
44N
43N
42N
41N
30E
32E
34E
1.046
2.015


Area-Averaged Time Series (MATMNXRAD.5.2.0)
(Region: 30E-32E, 46N-50N)
Surface skin temperature (K)
305
300
295
290
285
280
275
270
265
260
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006


For area (Lat: 42.0N-44.0N, Lon: 30.0E-38.0E)
SeaWiFS Chlorophyll a concentration [mg/m**3]
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
Time
GrADS: COLA/IGES
2009-09-22-08:29
Generated by NASA's Giovanni (giovanni.gsfc.nasa.gov)


[mg/m**3] (01Jun2008-08Jun2008)
SeaWiFS Chlorophyll a concentration
48N
47N
46N
45N
44N
43N
42N
41N
40N
27E
28E
29E
30E
31E
32E
33E
34E
35E
36E
37E
38E
39E
40E
41E
42E
0.08
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2.5
10
30
GrADS: COLA/IGES
2009-10-14-00:01
Generated by NASA's Giovanni (giovanni.gsfc.nasa.gov)


MATMNXRAD.5.2.0 Surface skin temperature [K]
(Average Lon: 30.0E – 32.5E)
2006
2005
2004
2003
2002
2001
2000
1999
1998
1997
46.5N
46.8N
47.1N
47.4N
47.7N
48N
48.3N
48.6N
48.9N
49.2N
49.5N
49.8N
260.9
265
269.1
273.2
277.3
281.4
285.5
289.6
293.7
297.7
301.8


Ocean Color Time-Series Online Visualization and Analysis - Microsoft Internet Explorer
Назад
Поиск
Избранное
Файл Правка Вид Избранное Сервис Справка
Адрес: http://reason.gsfc.nasa.gov/Giovanni/
Ocean Color Time-Series Online Visualization and Analysis
Welcome to the Ocean Color Time-Series Online Visualization and Analysis System! This system is based on the GES-DISC Interactive Online Visualization and ANalysis Infrastructure (Giovanni) which was developed by the GES DISC to provide users with an easy-to-use, Web-based interface for the visualization and analysis of the Earth Science data.
Ocean Color Time-Series Giovanni was initiated under a NASA REASoN project (Dr. Watson Gregg, PI). Giovanni now includes SeaWiFS ocean color data, MODIS Aqua ocean-color and SST data, Garver-Siegel-Maritorena (GSM) derived ocean color data products (Institute for Computation Earth System Science, University of California-Santa Barbara), and NASA Ocean Biological Model (NOBM) data.
Product List:
OBPG SeaWiFS and MODIS-Aqua Monthly 9-km Products
GSM SeaWiFS, MODIS-Aqua, and Merged Monthly 9-km Products
NOBM Assimilated Monthly Products
NOBM Assimilated Daily Products
OBPG SeaWiFS 8-Day 9-km Products JAVA Version Non JAVA Version
Please visit our other Giovanni Websites at the GES DISC:
http://giovanni.gsfc.nasa.gov
Ocean Color Radiometry Online Visualization and Analysis
This Web site was generated by Giovanni, v0.56.
Read more about Giovanni in our Technology Lab
NASA Official: Steve Kempler
Website Curator: Anthony Drake
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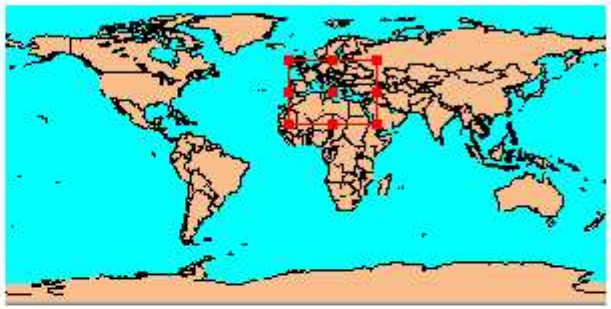
+ Contact Us

Click and drag to select area; or input latitudes (-90, 90) and longitudes (-180.0 ~ 180.0) or
Click for non Java/JavaScript version

To use this Java version, you need to download Java 2 Platforms. Click to see more information on supported browsers and platforms



North latitude
57.0 N
West 10.0 W
East 42.0 E
South latitude
18.0 N
Zoom In | Zoom Out

Parameters:
- Chlorophyll a concentration
- Angstrom coefficient 510 to 865 nm
- Diffuse attenuation coefficient at 490 nm
- Normalized water-leaving radiance at 555 nm
- Aerosol optical thickness at 865 nm

Plot Type: Lat-Lon Map, Time-averaged

Begin Year: 2009 8-Day: Jan01 - Jan08 *(Date Begin: 1997/08/29)*

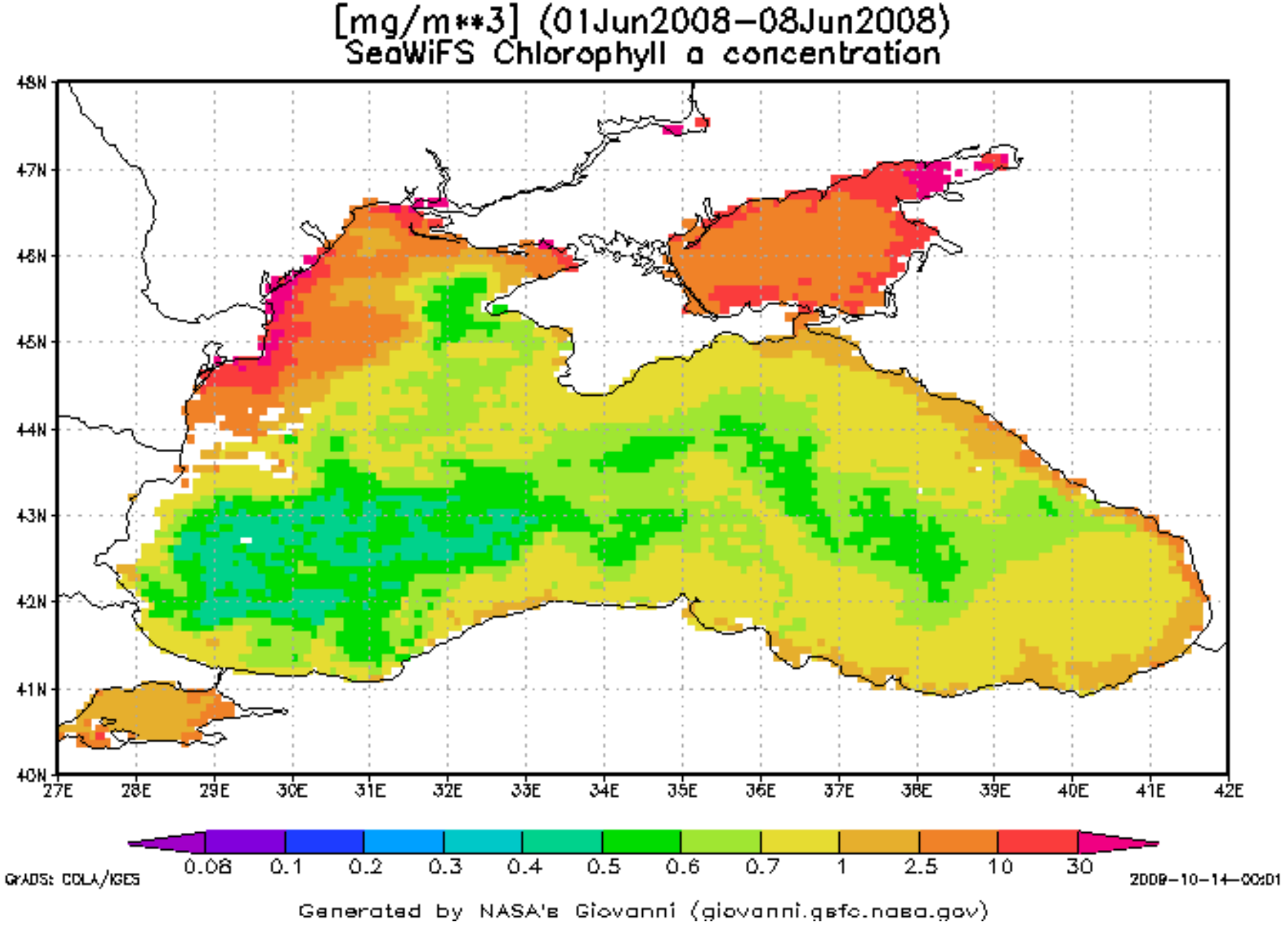
End Year: 2009 8-Day: Jan01 - Jan08 *(Date End: 2009/02/09)*

Color Options:
- (•) Pre-defined
- ( ) Dynamic
- ( ) Customized (linear only): Min Max

Time Series Plot Y-Axis Options:
- (•) Dynamic
- ( ) Customized: Min Max Interval

ASCII Output Resolution (degrees): 1.0

Generate Plot | ASCII Output | Reset Form


[mg/m**3] (01Jun2008-08Jun2008)
SeaWiFS Chlorophyll a concentration
48N
47N
46N
45N
44N
43N
42N
41N
40N
27E
28E
29E
30E
31E
32E
33E
34E
35E
36E
37E
38E
39E
40E
41E
42E
0.08
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2.5
10
30
GrADS: COLA/IGES
2009-10-14-00:01
Generated by NASA's Giovanni (giovanni.gsfc.nasa.gov)

About Landsat

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+ Landsat & People
– Technical Details
+ Science
+ Practical Uses
+ LDCM

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The Enhanced Thematic Mapper Plus

The Enhanced Thematic Mapper Plus (ETM+) instrument is a fixed "whisk-broom", eight-band, multispectral scanning radiometer capable of providing high-resolution imaging information of the Earth's surface. It detects spectrally-filtered radiation in VNIR, SWIR, LWIR and panchromatic bands from the sun-lit Earth in a 183 km wide swath when orbiting at an altitude of 705 km.

The primary new features on Landsat 7 are a panchromatic band with 15 m spatial resolution, an on-board full aperture solar calibrator, 5% absolute radiometric calibration and a thermal IR channel with a four-fold improvement in spatial resolution over TM.

Landsat 7 collects data in accordance with the World Wide Reference System 2, which has catalogued the world's land mass into 57,784 scenes, each 183 km wide by 170 km long. The ETM+ produces approximately 3.8 gigabits of data for each scene. An ETM+ scene has an Instantaneous Field Of View (IFOV) of 30 meters in bands 1-5 and 7 while band 6 has an IFOV of 60 meters on the ground and the band 8 an IFOV of 15 meters. Please visit the L7 Science Data Users Handbook for a detailed description of ETM+ spatial characteristics.

ETM+ Bands

Band Number	µm	Resolution
1	0.45-0.515	30 m
2	0.525-0.605	30 m
3	0.63-0.69	30 m
4	0.75-0.90	30 m
5	1.55-1.75	30 m
6	10.4-12.5	60 m
7	2.09-2.35	30 m
8	0.52-0.9	15 m

ETM+ TECHNICAL SPECIFICATIONS

Sensor type: opto-mechanical
Spatial Resolution: 30 m (60 m - thermal, 15-m pan)
Spectral Range: 0.45 - 12.5 µm
Number of Bands: 8
Temporal Resolution: 16 days
Image Size: 183 km X 170 km

USGS Global Visualization Viewer - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://glovis.usgs.gov/

.glovis.usgs.gov

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USGS Global Visualization Viewer

USGS
science for a changing world

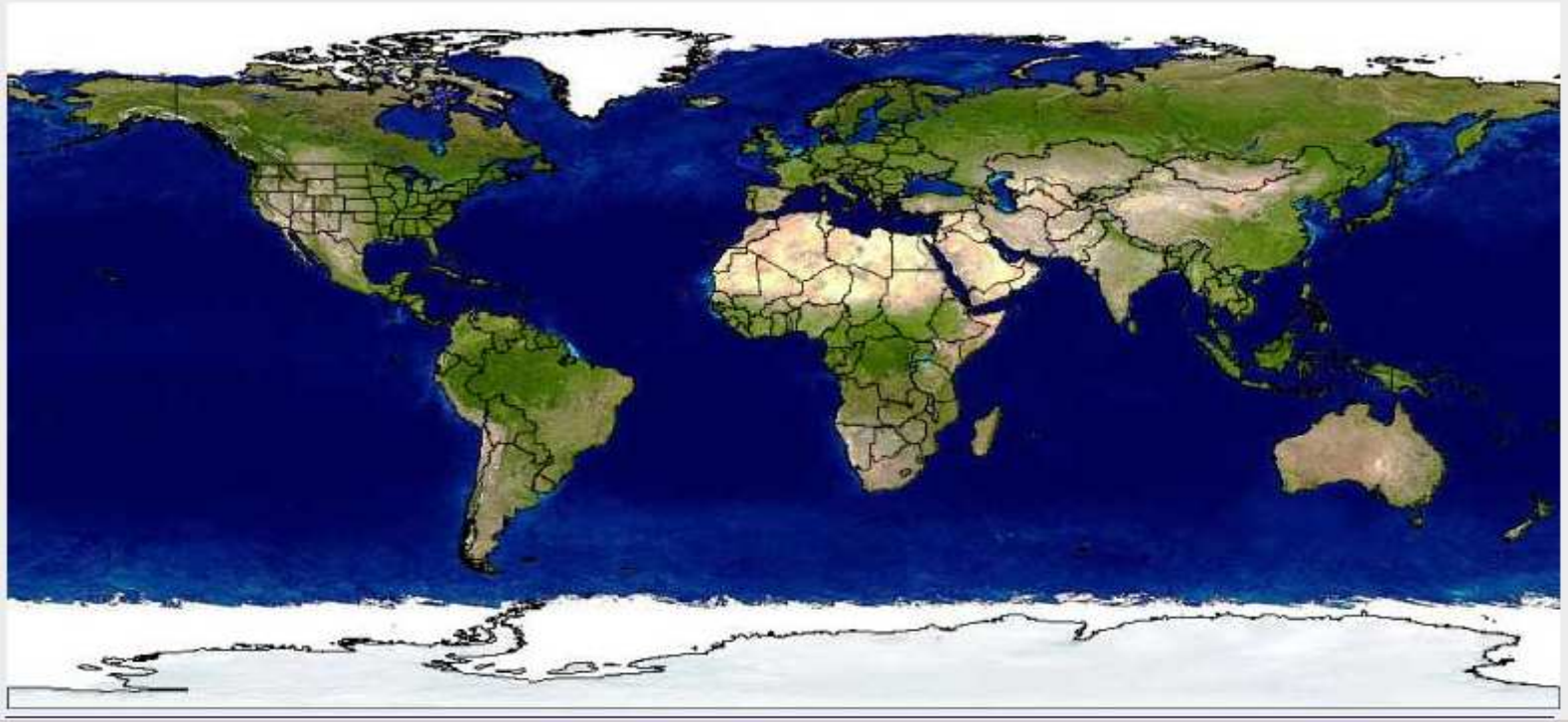
Earth Resources Observation and Science Center (EROS)

USGS Global Visualization Viewer

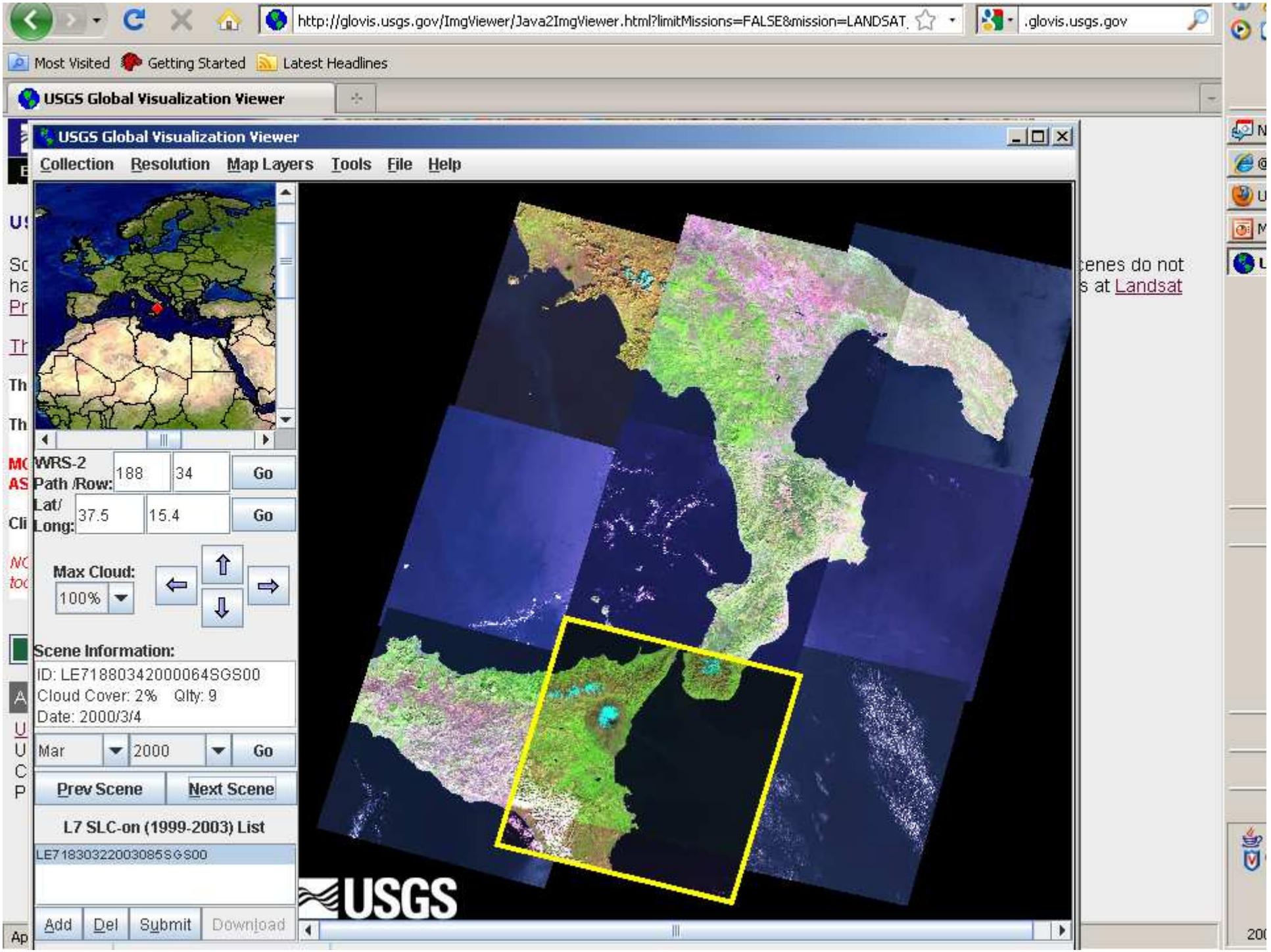
Select a collection, then click on the Global Locator Map to view satellite browse images in that area.

Select Collection Landsat Archive Landsat 7 SLC-off (2003->) View Images

Latitude Longitude



Done


http://glovis.usgs.gov/ImgViewer/Java2ImgViewer.html?limitMissions=FALSE&mission=LANDSAT
.glovis.usgs.gov
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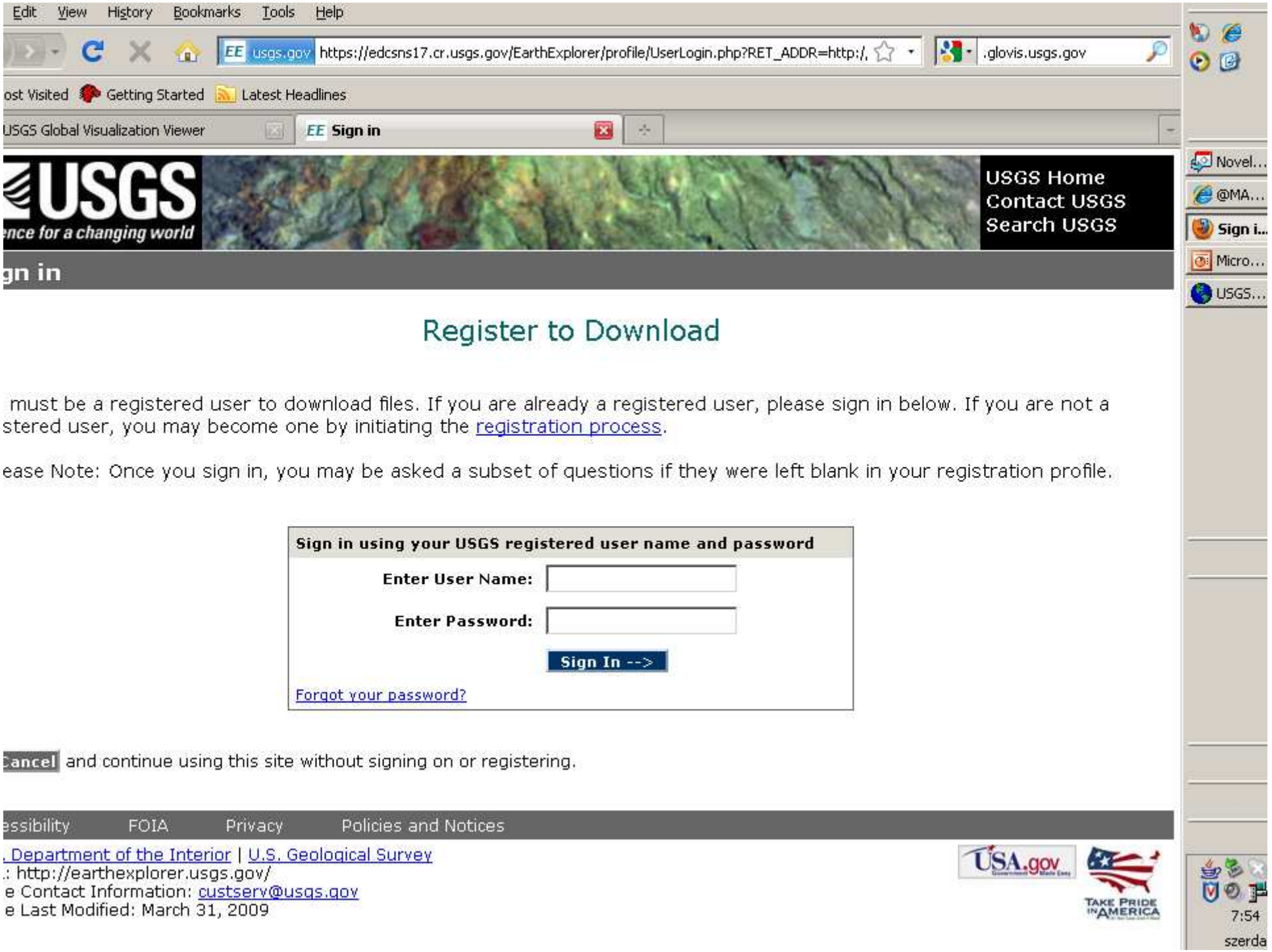
188
34
Go
Lat/ Long:
37.5
15.4
Go
Max Cloud:
100%
Scene Information:
ID: LE71880342000064SGS00
Cloud Cover: 2%
Qlty: 9
Date: 2000/3/4
Mar
2000
Go
Prev Scene
Next Scene
L7 SLC-on (1999-2003) List
LE71830322003085SGS00
Add
Del
Submit
Download
USGS


Edit View History Bookmarks Tools Help
usgs.gov https://edcsns17.cr.usgs.gov/EarthExplorer/profile/UserLogin.php?RET_ADDR=http:/,
.glovis.usgs.gov
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USGS Global Visualization Viewer
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Search USGS
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must be a registered user to download files. If you are already a registered user, please sign in below. If you are not a stered user, you may become one by initiating the registration process.
ease Note: Once you sign in, you may be asked a subset of questions if they were left blank in your registration profile.
Sign in using your USGS registered user name and password
Enter User Name:
Enter Password:
Sign In -->
Forgot your password?
ancel and continue using this site without signing on or registering.
essibility FOIA Privacy Policies and Notices
Department of the Interior | U.S. Geological Survey
: http://earthexplorer.usgs.gov/
e Contact Information: custserv@usgs.gov
e Last Modified: March 31, 2009
USA.gov
TAKE PRIDE IN AMERICA
Novel...
@MA...
Sign i...
Micro...
USGS...
7:54
szerda

http://glcfapp.umiacs.umd.edu:8080/esdi/index.jsp

Global Land Cover Facility
Earth Science Data Interface

Home | Map Search | Product Search | Path/Row Search | Workspace

Welcome to the Earth Science Data Interface (ESDI) at the Global Land Cover Facility

The Earth Science Data Interface is the GLCF's web application for searching, browsing, and downloading data from our online holdings. *To start, click on one of the images below:*

Tips:

- If you are looking for Landsat data, use the Path/Row Search if you know the paths and rows for your area of interest. You can also use the Map Search to browse and query using an interactive map. You must use the Map Search when looking for Landsat Mosaics.
- If you are looking for any of our MODIS or AVHRR derived products or other hosted products, use the Product Search. Browse and query these data b supplying parameters through a simple interface. This method is much easier than using the Map Search.

Other Links:

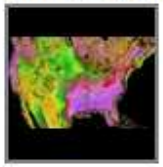
- **Help Us Help You!**
- ESDI Documentation: Table Of Contents, Map Search Topic, Differences from ESDI Version 1
- Direct Access to FTP Servers
- Download ESDI Layers
- Search by Granule ID

Product Search

Global Land Cover Facility
Earth Science Data Interface

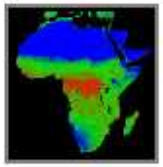
Home | Map Search | Product Search | Path/Row Search | Workspace

MODIS, 16-Day NDVI



Normalized Difference Vegetation Index (NDVI) derived from MODIS data is provided here on a 16 day basis for the conterminous United States. The original band files used to derive the NDVI are also available and a band file with cloud information (for data from 2001 to the present). Data are in GeoTIFF and have been projected to Alber's.

MODIS, Vegetation Continuous Fields



The three data files included are percent trees, bare, and herbaceous. This product contains three available layers which add up to represent 100% ground cover. The three layers can be properly displayed in a Red, Green, Blue band combination. Data is available in Goode's projection or Lat/Long.

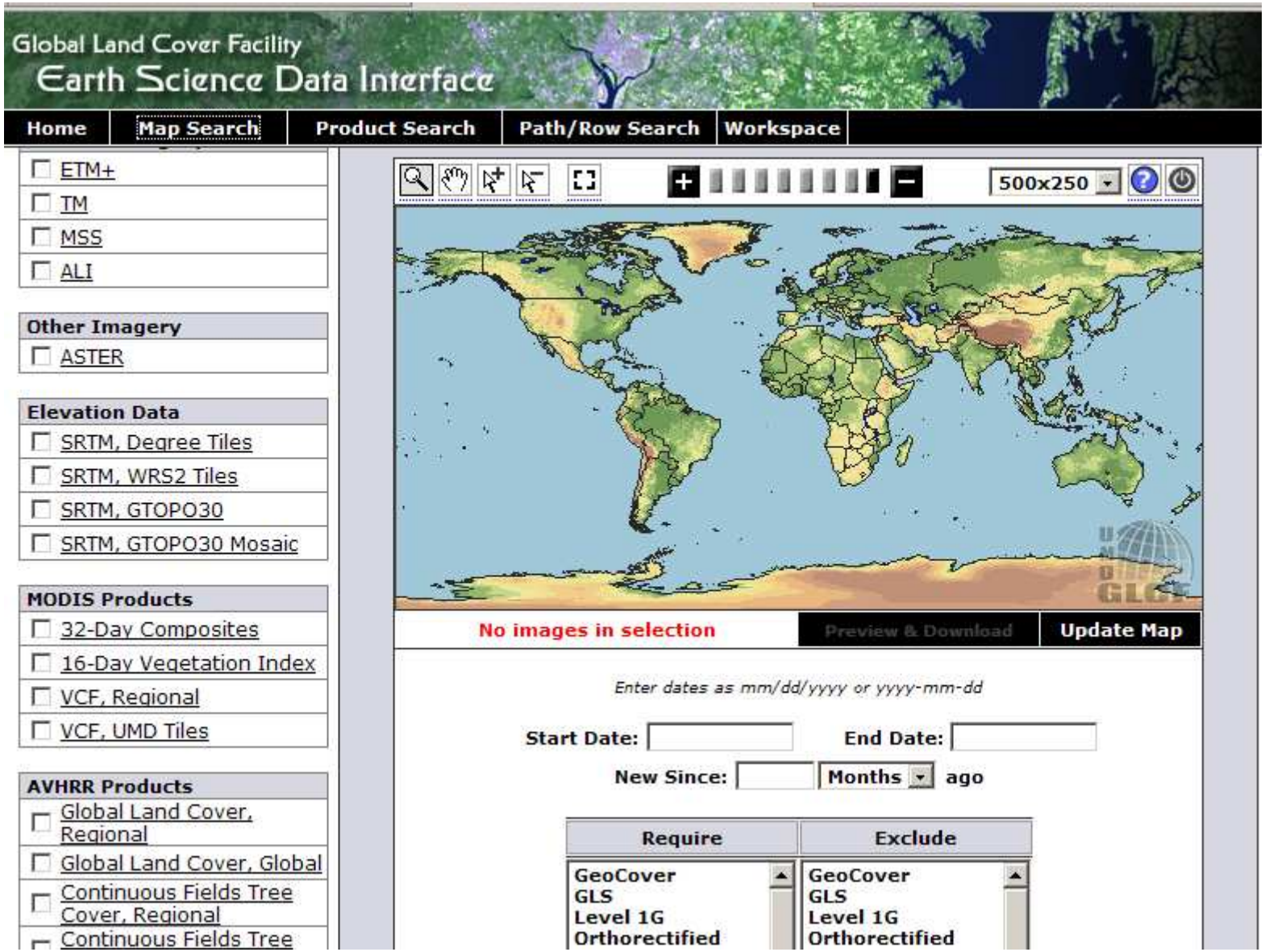
MODIS, 500m, 32-Day Global Composites

Composites were derived from the MOD09A1 eight-day surface reflectance product. MODIS bands 1 through 7 (red, NIR, green, blue, SWIR, SWIR, SWIR) are available in single band GeoTIFF files in continental subsets. These composites were used to derive the MODIS Vegetation Continous Fields product.

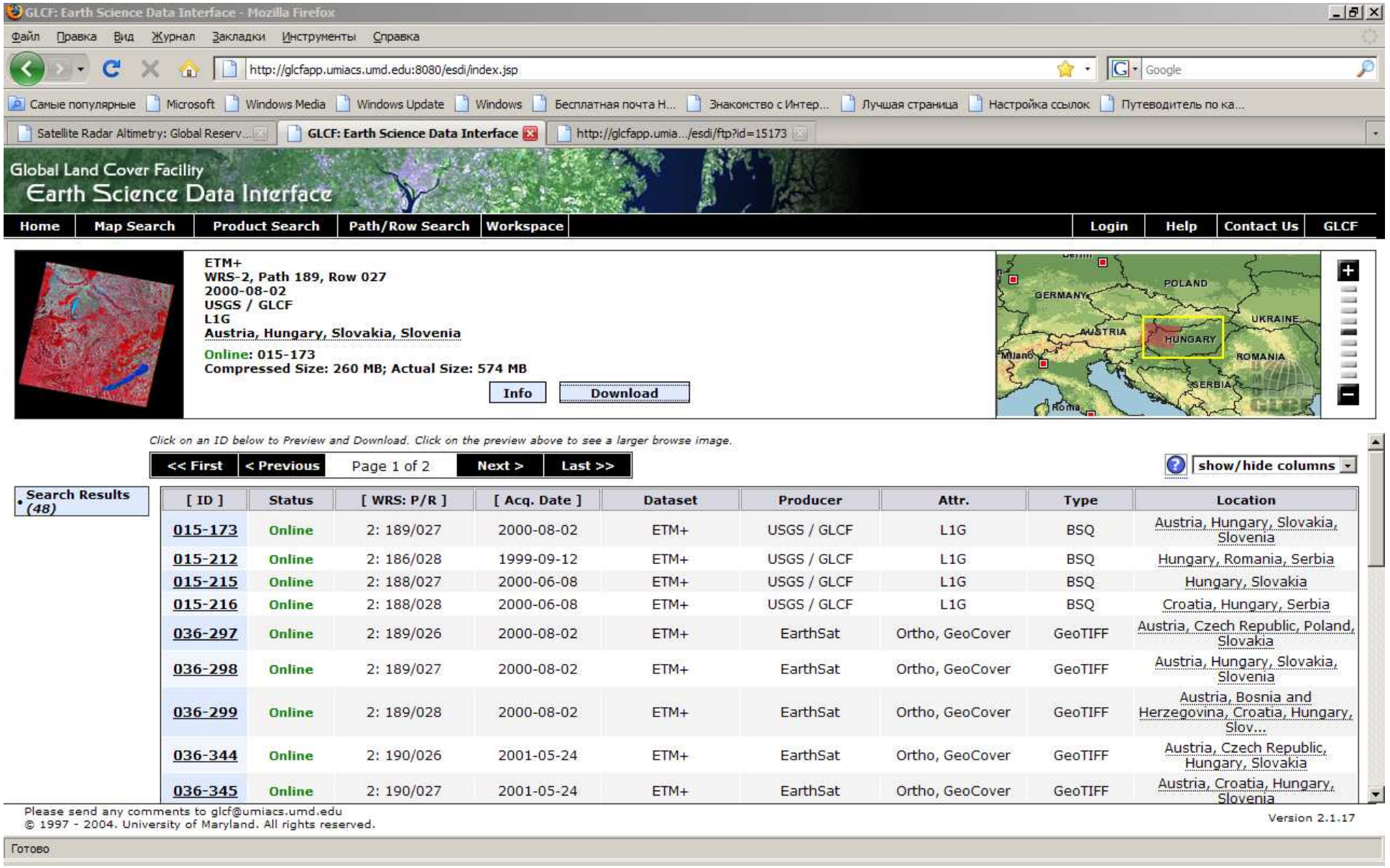
IUCN/UNEP World Database On Protected Areas

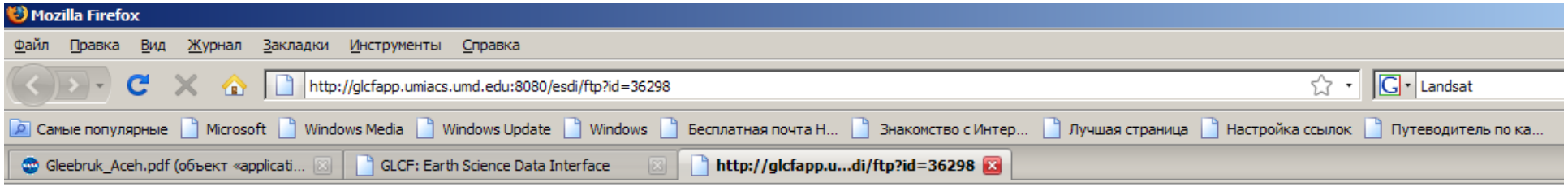
This dataset contains GIS layers of protected areas that were produced by the World Conservation Union (IUCN) and the United Nations Environment Programme (UNEP). The 2003 dataset includes protected areas recognized at the international and national levels. Data are provided as ESRI Shapefiles by points or polygons.

MAP SEARCH


Global Land Cover Facility
Earth Science Data Interface
Home
Map Search
Product Search
Path/Row Search
Workspace
ETM+
TM
MSS
ALI
Other Imagery
ASTER
Elevation Data
SRTM, Degree Tiles
SRTM, WRS2 Tiles
SRTM, GTOPO30
SRTM, GTOPO30 Mosaic
MODIS Products
32-Day Composites
16-Day Vegetation Index
VCF, Regional
VCF, UMD Tiles
AVHRR Products
Global Land Cover, Regional
Global Land Cover, Global
Continuous Fields Tree Cover, Regional
Continuous Fields Tree
500x250
No images in selection
Preview & Download
Update Map
Enter dates as mm/dd/yyyy or yyyy-mm-dd
Start Date:
End Date:
New Since:
Months
ago
Require
Exclude
GeoCover
GLS
Level 1G
Orthorectified
GeoCover
GLS
Level 1G
Orthorectified

Landsat ETM data





p189r027_7x20000802.ETM-EarthSat-Orthorectified

```
Unable to get welcome message.
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Path: ftp://ftp.glcf.umiacs.umd.edu/glcf/Landsat/WRS2/p189/r027/p189r027_7x20000802.ETM-EarthSat-Orthorectified/

File Name	Download Size	Actual Size	Last Modified
p189r027_7k20000802_z33_nn61.tif.gz	5245792 bytes	16857950 bytes	Mon Dec 22 13:37:00 EST 2003
p189r027_7k20000802_z33_nn62.tif.gz	6507551 bytes	16857950 bytes	Mon Dec 22 13:37:00 EST 2003
p189r027_7p20000802_z33_nn80.tif.gz	118358204 bytes	269281174 bytes	Mon Dec 22 13:37:00 EST 2003
p189r027_7t20000802.742.browse.jpg	505109 bytes		Wed Jun 28 20:15:46 EDT 2006
p189r027_7t20000802.742.preview.jpg	14224 bytes		Wed Jun 28 20:15:46 EDT 2006
p189r027_7t20000802.browse.jpg	490435 bytes		Wed Jun 28 20:16:42 EDT 2006
p189r027_7t20000802.preview.jpg	14014 bytes		Wed Jun 28 20:16:42 EDT 2006
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p189r027_7t20000802_z33_nn20.tif.gz	28667287 bytes	67351740 bytes	Mon Dec 22 13:37:00 EST 2003
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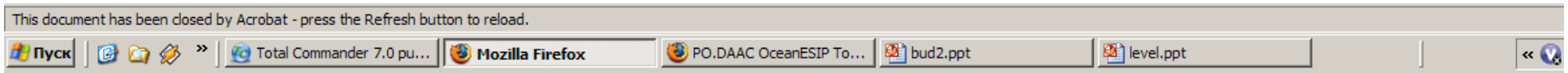
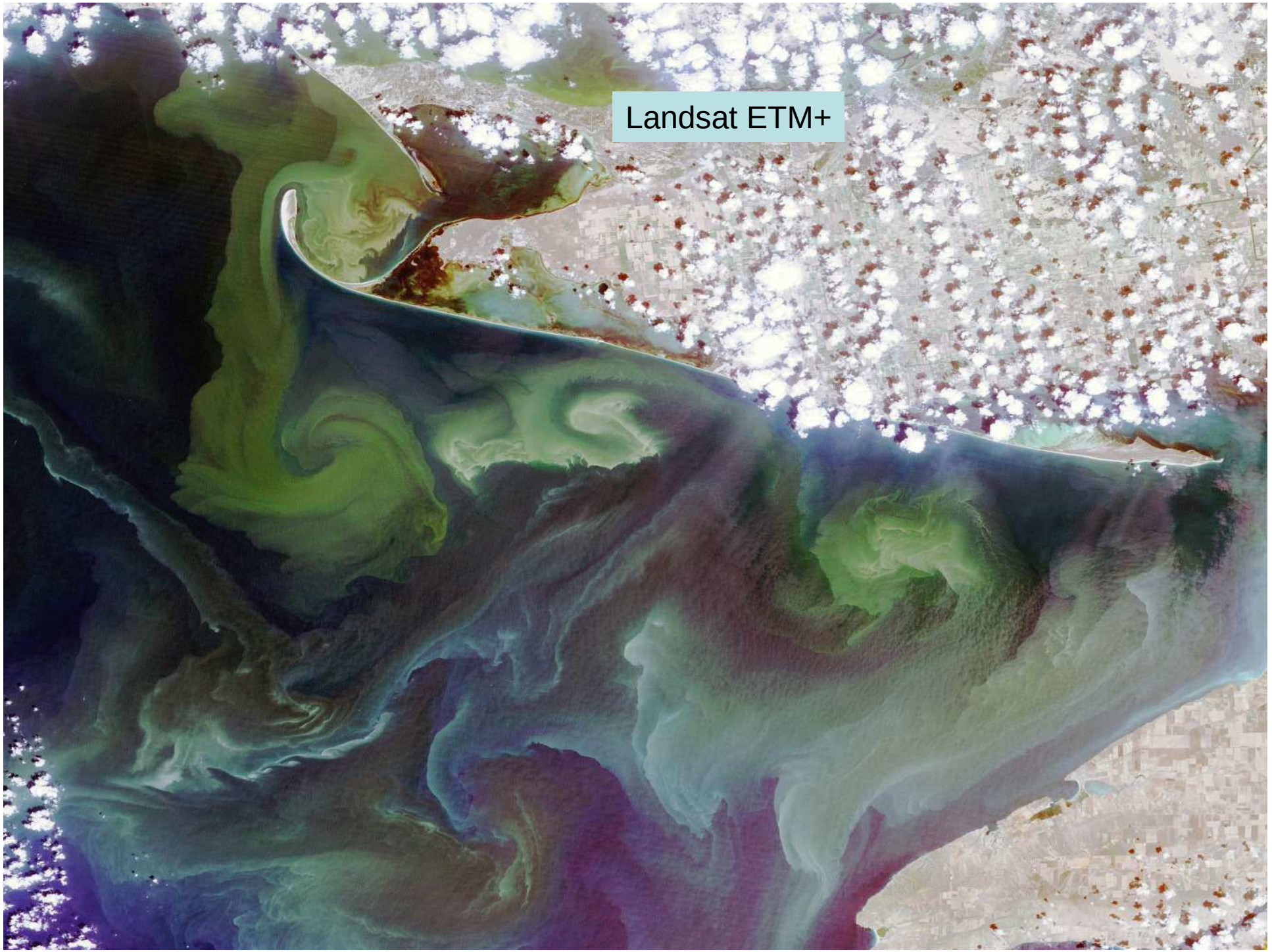
p189r027_7x20000802.met	5521 bytes		Thu Feb 12 10:56:00 EST 2004



Landsat ETM+

Oil pollution in the Kerch Strait


Landsat ETM+


SOPRANO - SAR Ocean Products Demonstration - Mozilla Firefox
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http://soprano.cls.fr/L2/roughnessProducts/
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SOPRANO
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Level 2
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help
permalink
geographical selection
time window
submit
|< << < 1 2 3 4 5 6 7 8 9 > >> >|
888 products available
informations
date: 11/04/2010
time: 08:46:51 UTC
mode: WSM
plateform: ENVISAT
proc. center: I-PAC
date: 11/04/2010
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plateform: ENVISAT
proc. center: PDHS-K
date: 10/04/2010
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mode: WSM
plateform: ENVISAT
proc. center: PDHS-E
date: 10/04/2010
time: 20:36:43 UTC
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plateform: ENVISAT
proc. center: PDHS-K
date: 10/04/2010
time: 18:57:32 UTC
mode: WSM
plateform: ENVISAT
proc. center: PDHS-K
view product
Greenland
Iceland
Sverige Sweden
Suomi Finland
Norge Norway
United Kingdom
Ireland
Danmark Denmark
Беларусь Belarus
Polska Poland
Deutschland Germany
Україна Ukraine
Österreich Austria
France
România Romania
Italia Italy
España Spain
Portugal
Ελλάς Greece
Türkiye Turkey
Kazakhstan
Uzbekistan
Kyrgyzstan
Turkmenistan
Syria
Iraq
Iran
Afghanistan
Pakistan
Nepal
India
Tunisia
Morocco
Algeria
Libya
مصر Egypt
Western Sahara
Saudi Arabia
Oman
Yemen
Mauritania
Mali
Niger
Chad
Sudan
Burkina Faso
Guinea
Ghana
Nigeria
Ethiopia
Somalia
Kenya
Gabon
DR Congo
Tanzania
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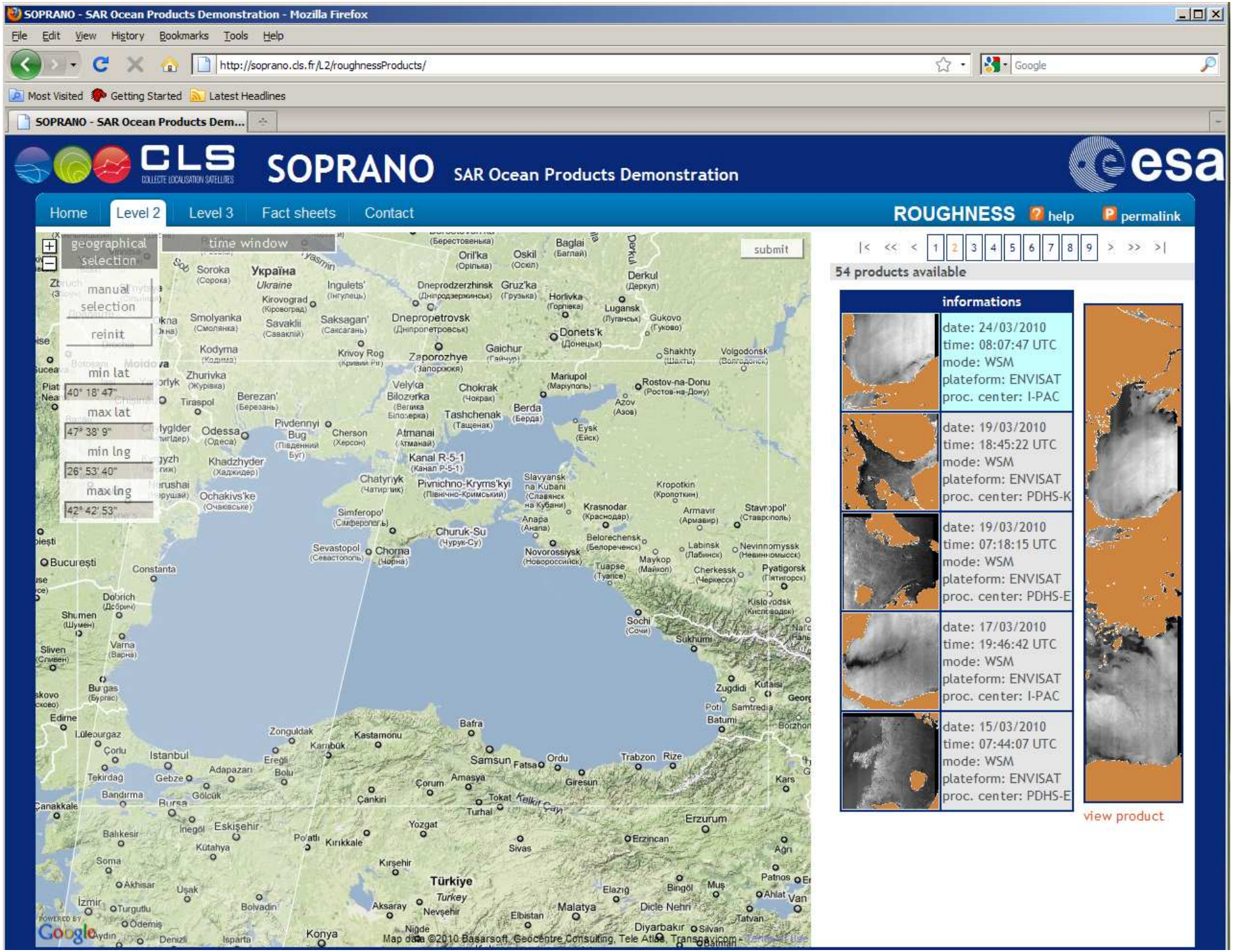
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ROUGHNESS
help
permalink
geographical selection
time window
submit
manual selection
reinit
min lat
40° 18' 47"
max lat
47° 38' 9"
min lng
26° 53' 40"
max lng
42° 42' 53"
|< << < 1 2 3 4 5 6 7 8 9 > >> >|
54 products available
informations
date: 24/03/2010
time: 08:07:47 UTC
mode: WSM
plateform: ENVISAT
proc. center: I-PAC
date: 19/03/2010
time: 18:45:22 UTC
mode: WSM
plateform: ENVISAT
proc. center: PDHS-K
date: 19/03/2010
time: 07:18:15 UTC
mode: WSM
plateform: ENVISAT
proc. center: PDHS-E
date: 17/03/2010
time: 19:46:42 UTC
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plateform: ENVISAT
proc. center: I-PAC
date: 15/03/2010
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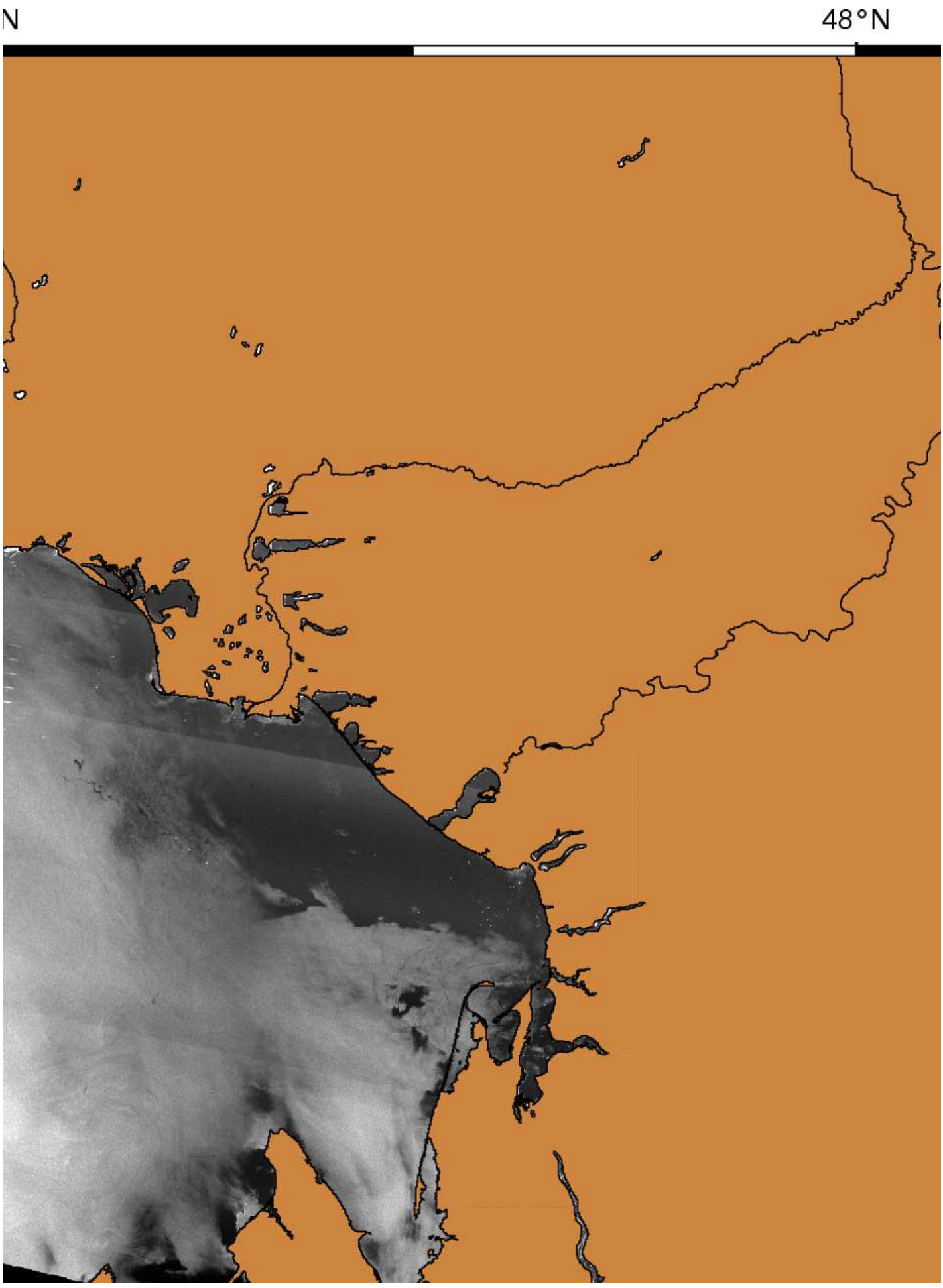
plateform: ENVISAT
proc. center: PDHS-E
view product
Map data ©2010 Basarsoft, GeoEye, Consulting, Tele Atlas, Transnavicom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48°N

MODIS Rapid Response System - Subsets - Mozilla Firefox

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http://rapidfire.sci.gsfc.nasa.gov/subsets/

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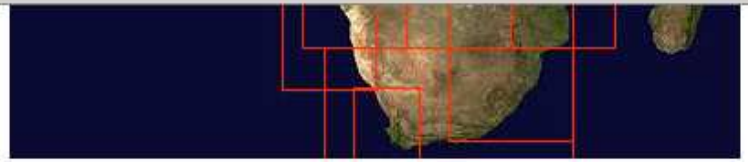
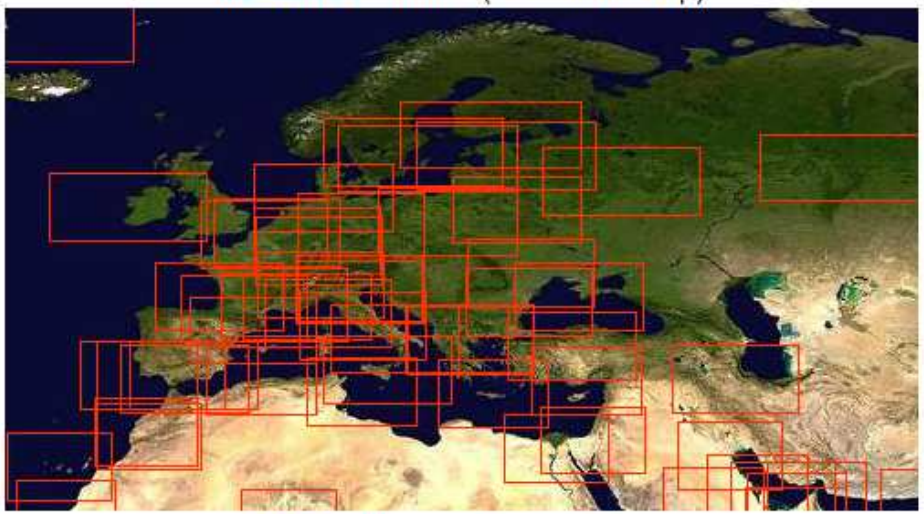


Europe

Top

AERONET Subsets (click on the map)



FAS Subsets (click on the map)

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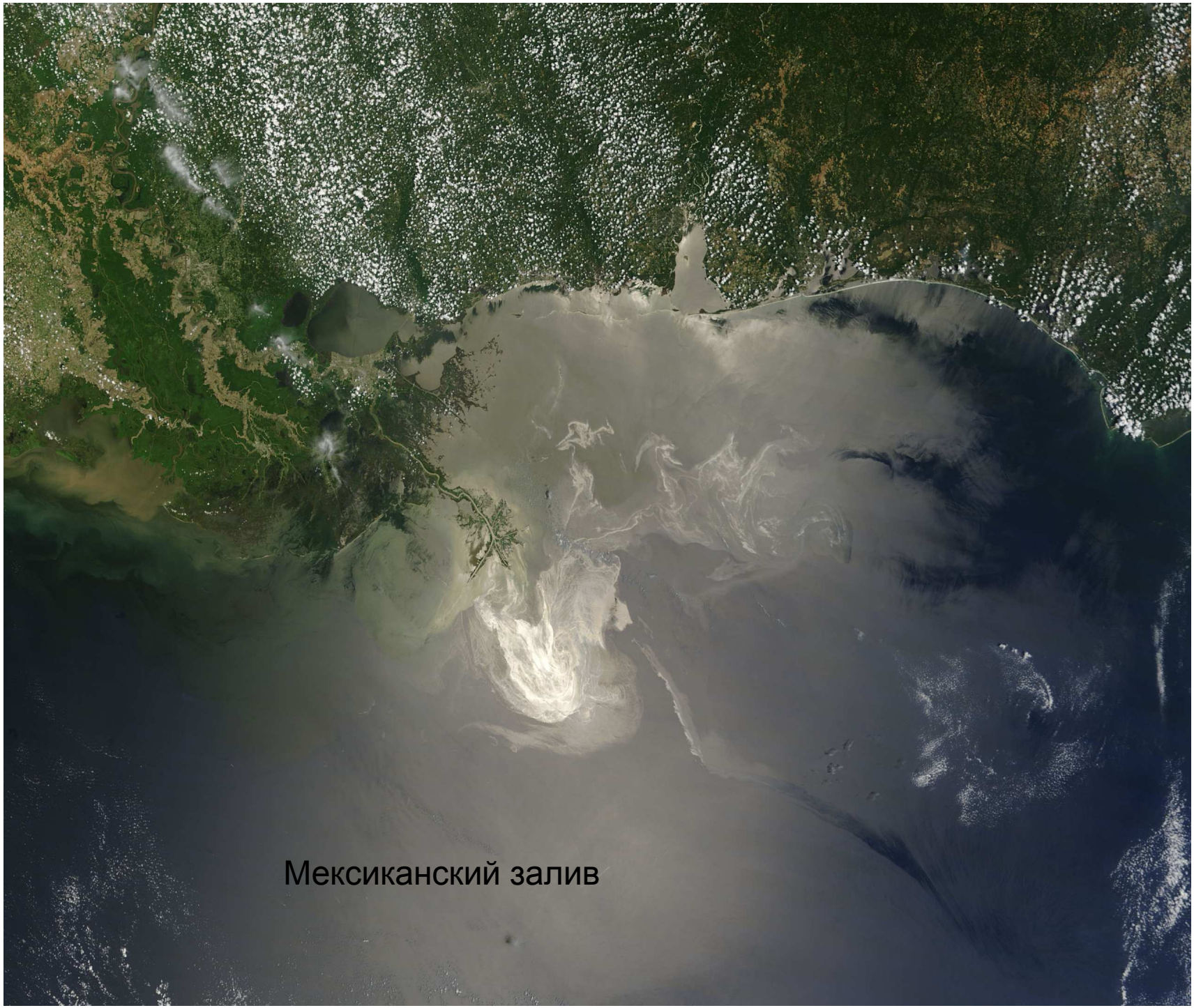
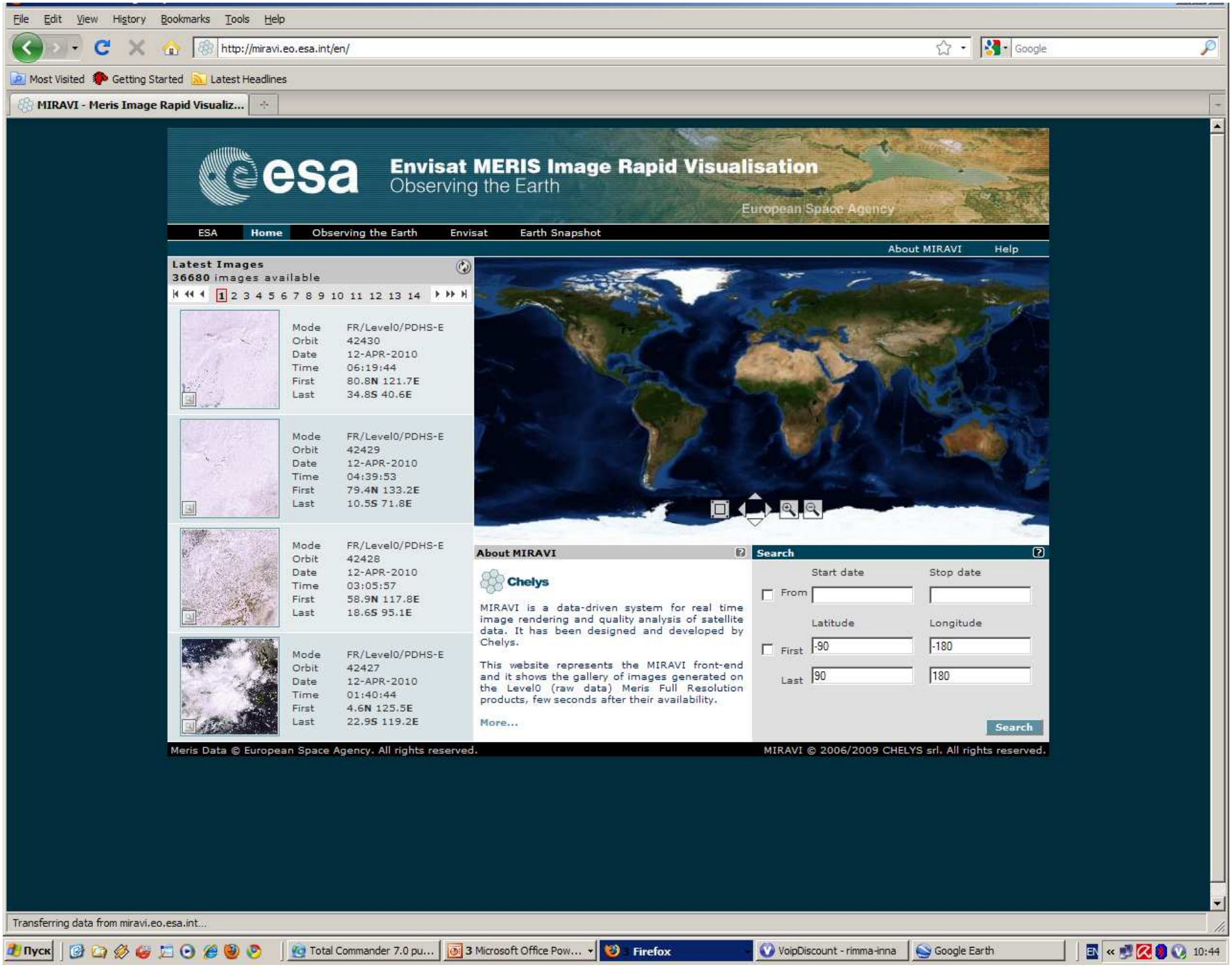
APRIL 28


Мексиканский залив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MIRAVI - Meris Image Rapid Visualiz...
esa
Envisat MERIS Image Rapid Visualisation
Observing the Earth
European Space Agency
ESA Home Observing the Earth Envisat Earth Snapshot
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36680 images available
1 2 3 4 5 6 7 8 9 10 11 12 13 14
Mode FR/Level0/PDHS-E
Orbit 42430
Date 12-APR-2010
Time 06:19:44
First 80.8N 121.7E
Last 34.8S 40.6E
Mode FR/Level0/PDHS-E
Orbit 42429
Date 12-APR-2010
Time 04:39:53
First 79.4N 133.2E
Last 10.5S 71.8E
Mode FR/Level0/PDHS-E
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Date 12-APR-2010
Time 03:05:57
First 58.9N 117.8E
Last 18.6S 95.1E
Mode FR/Level0/PDHS-E
Orbit 42427
Date 12-APR-2010
Time 01:40:44
First 4.6N 125.5E
Last 22.9S 119.2E
About MIRAVI
Chelys
MIRAVI is a data-driven system for real time image rendering and quality analysis of satellite data. It has been designed and developed by Chelys.
This website represents the MIRAVI front-end and it shows the gallery of images generated on the Level0 (raw data) Meris Full Resolution products, few seconds after their availability.
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Stop date
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Latitude
Longitude
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Last 90 180
Search
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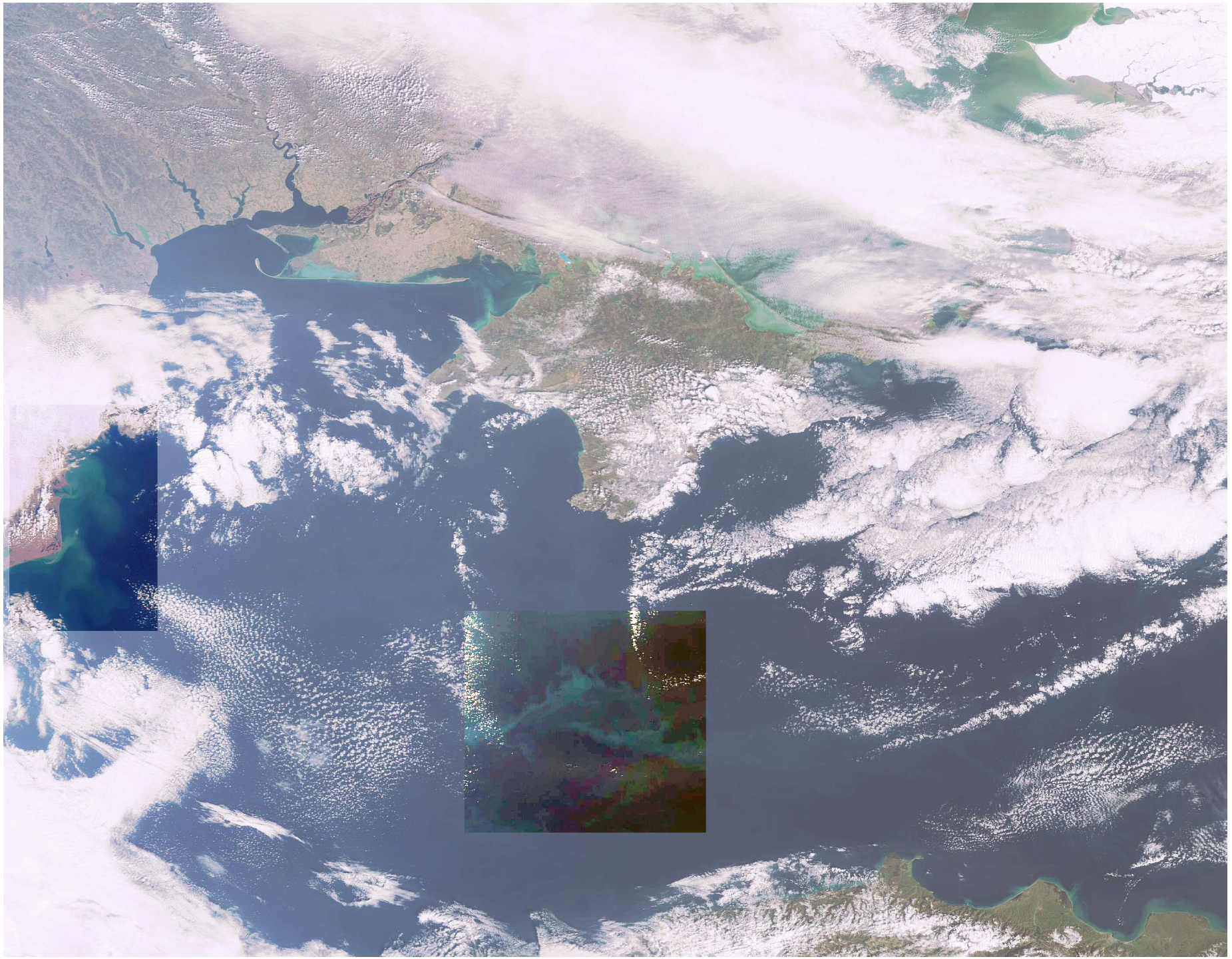
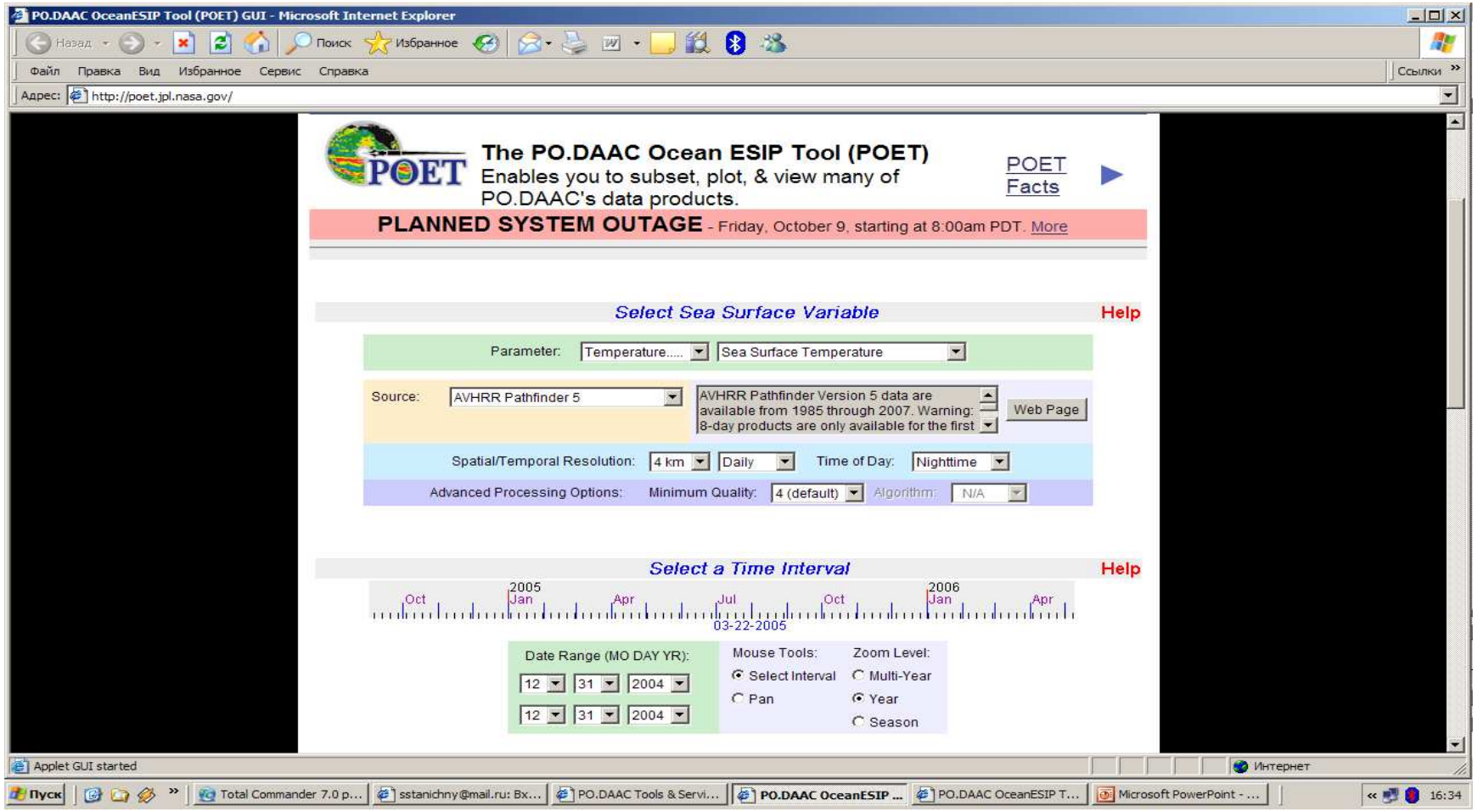
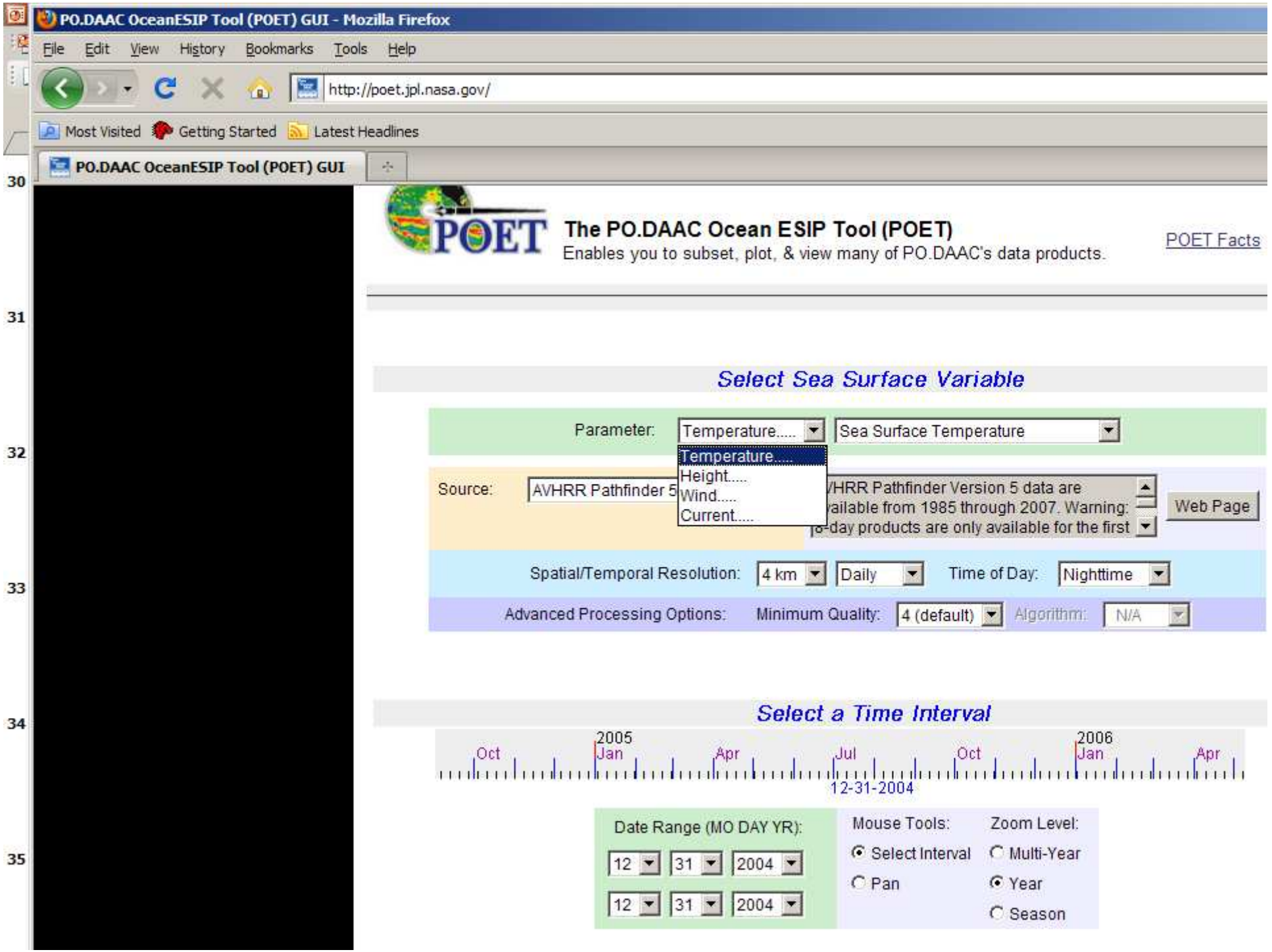


http://poet.jpl.nasa.gov/




PO.DAAC OceanESIP Tool (POET) GUI - Mozilla Firefox
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http://poet.jpl.nasa.gov/
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PO.DAAC OceanESIP Tool (POET) GUI
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35
POET
The PO.DAAC Ocean ESIP Tool (POET)
Enables you to subset, plot, & view many of PO.DAAC's data products.
POET Facts
Select Sea Surface Variable
Parameter:
Temperature.....
Sea Surface Temperature
Temperature.....
Height.....
Wind.....
Current.....
Source:
AVHRR Pathfinder 5
VHRR Pathfinder Version 5 data are
ailable from 1985 through 2007. Warning:
-day products are only available for the first
Web Page
Spatial/Temporal Resolution:
4 km
Daily
Time of Day:
Nighttime
Advanced Processing Options:
Minimum Quality:
4 (default)
Algorithm:
N/A
Select a Time Interval
2005
Oct
Jan
Apr
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Oct
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Jan
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12-31-2004
Date Range (MO DAY YR):
12
31
2004
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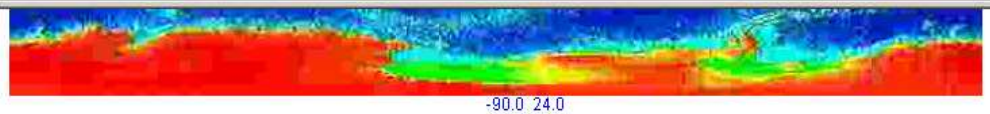
31
2004
Mouse Tools:
Select Interval
Pan
Zoom Level:
Multi-Year
Year
Season

PO.DAAC OceanESIP Tool (POET) GUI - Microsoft Internet Explorer

Назад Поиск Избранное

Файл Правка Вид Избранное Сервис Справка Ссылки

Адрес: http://poet.jpl.nasa.gov/



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Mouse Tools:
- (•) Draw Rectangle
- ( ) Draw Line
- ( ) Pan

Select Output

Help

Output: Latitude-Longitude Map(s) [☑] Land mask

Format: GIF [☐] ASCII also

Plot Range: (•) 2 to 32 C
( ) Based on Data Min/Max

Plot Size: 640 X 480

Plot Titles: Top:
Bottom: Sea Surface Temperature (C)

Get Data

Help

Transfer: Now, while I wait Via: http [☐] gzip

Submit Request

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NASA

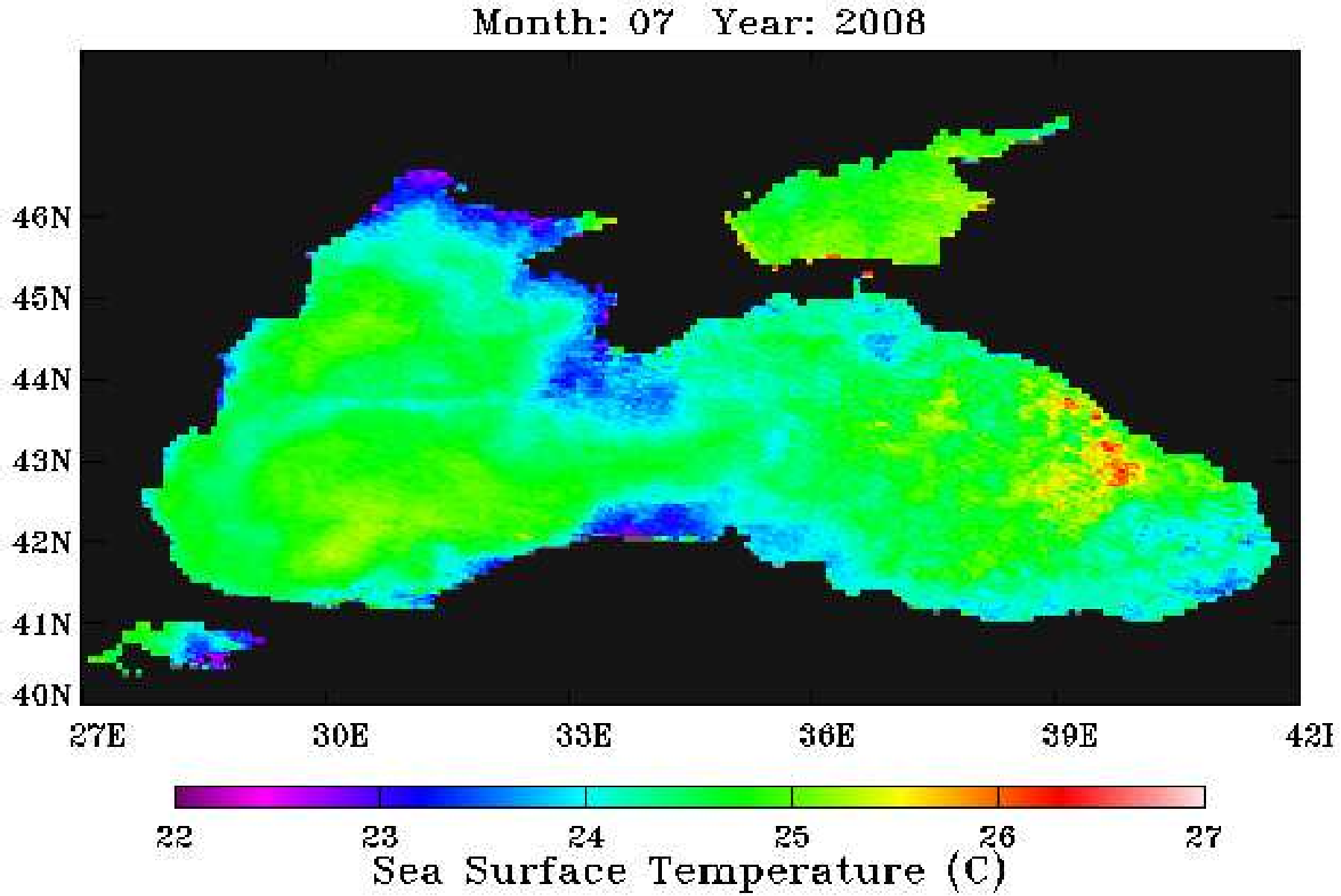
podaac@podaac.jpl.nasa.gov

All users publishing with PO.DAAC data from our providers & partners, please add a citation as outlined here.

Applet GUI started

Интернет

Пуск | Total Commander ... | sstanichny@mail.r... | PO.DAAC Tools & ... | PO.DAAC OceanE... | PO.DAAC OceanE... | lect_06.ppt | level.ppt | 16:36


Month: 07 Year: 2008
46N
45N
44N
43N
42N
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40N
27E
30E
33E
36E
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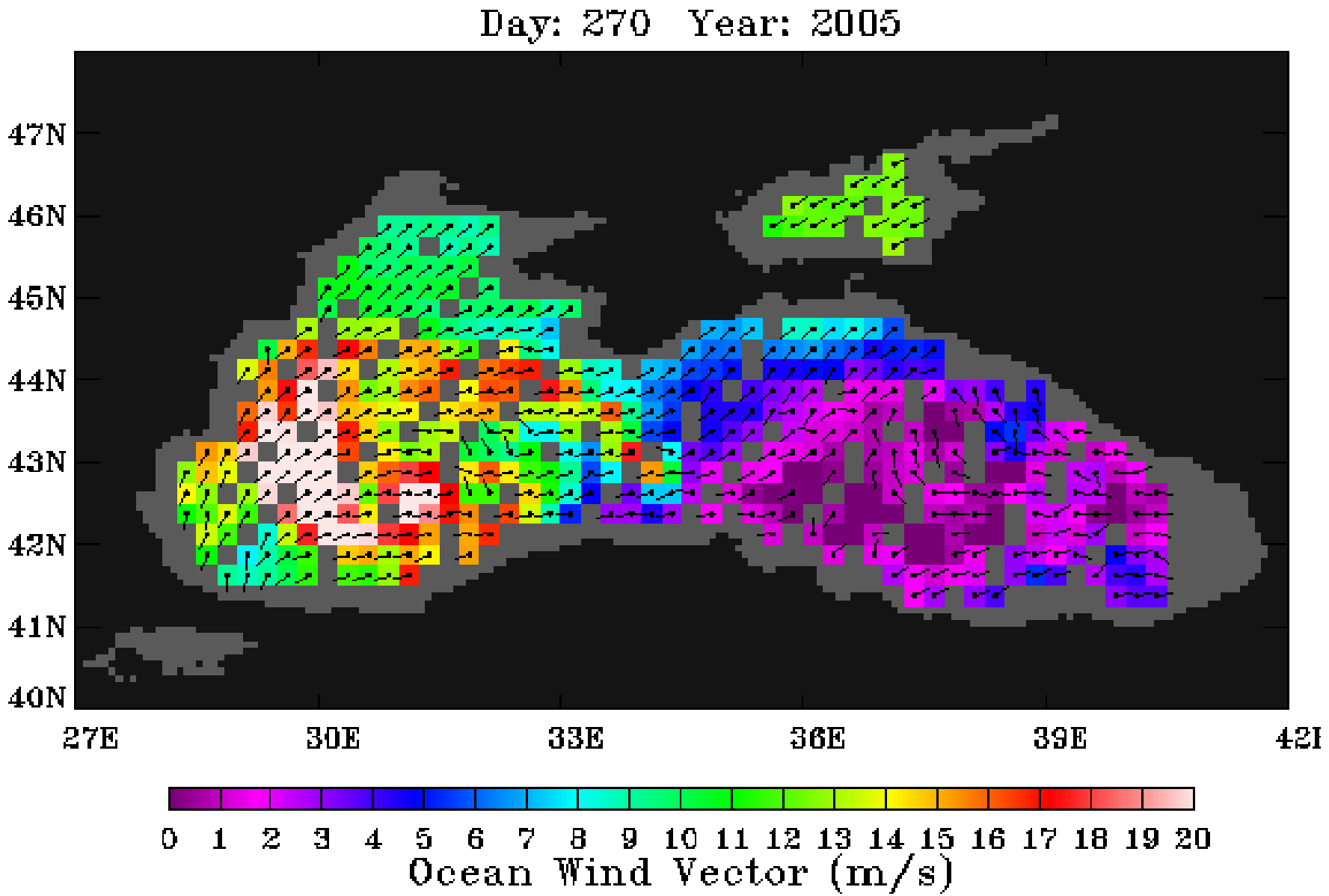
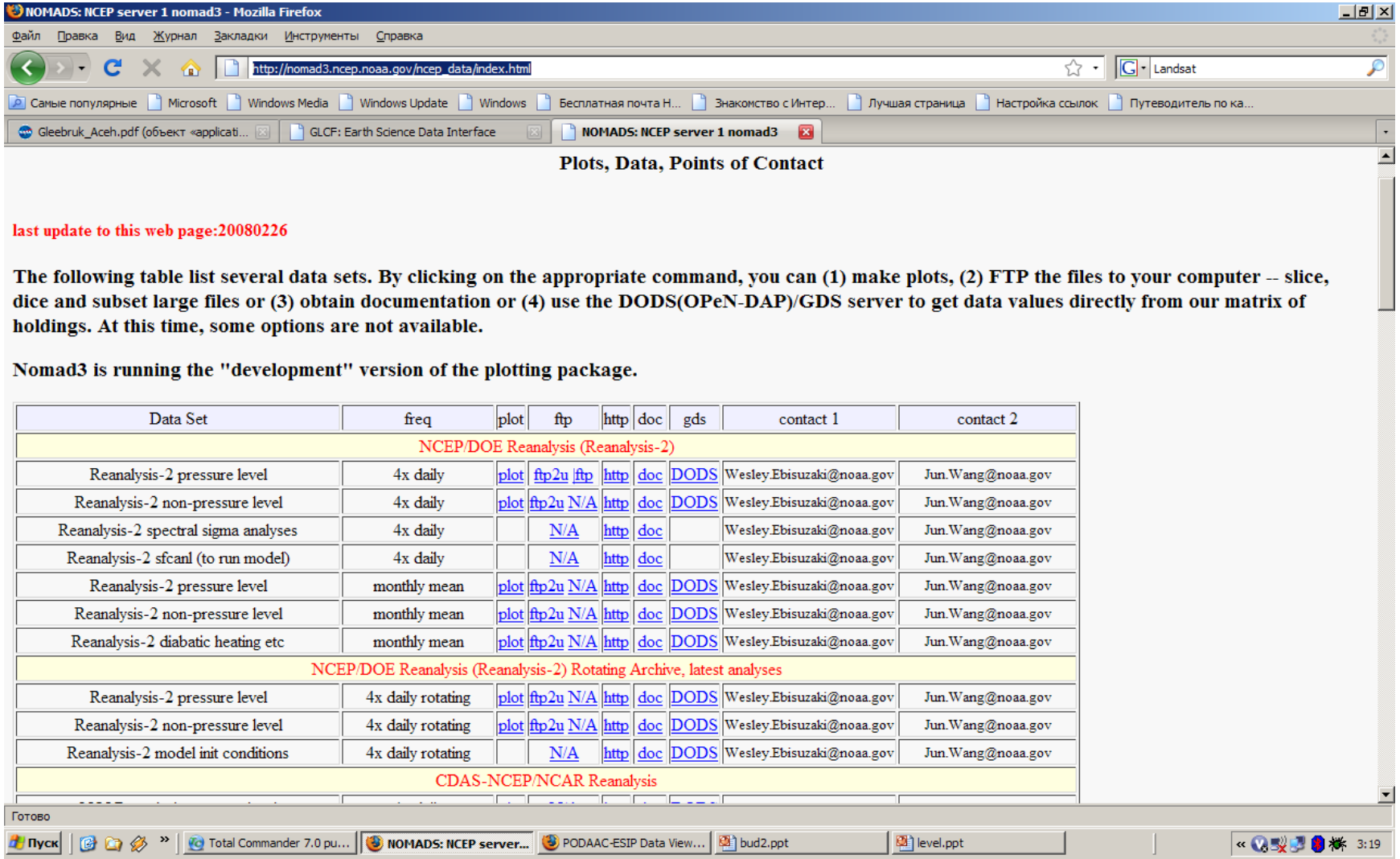
Sea Surface Temperature (C)


Day: 270 Year: 2005
47N
46N
45N
44N
43N
42N
41N
40N
27E
30E
33E
36E
39E
42E
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Ocean Wind Vector (m/s)

http://nomad3.ncep.noaa.gov/ncep_data/index.htm
METEO data



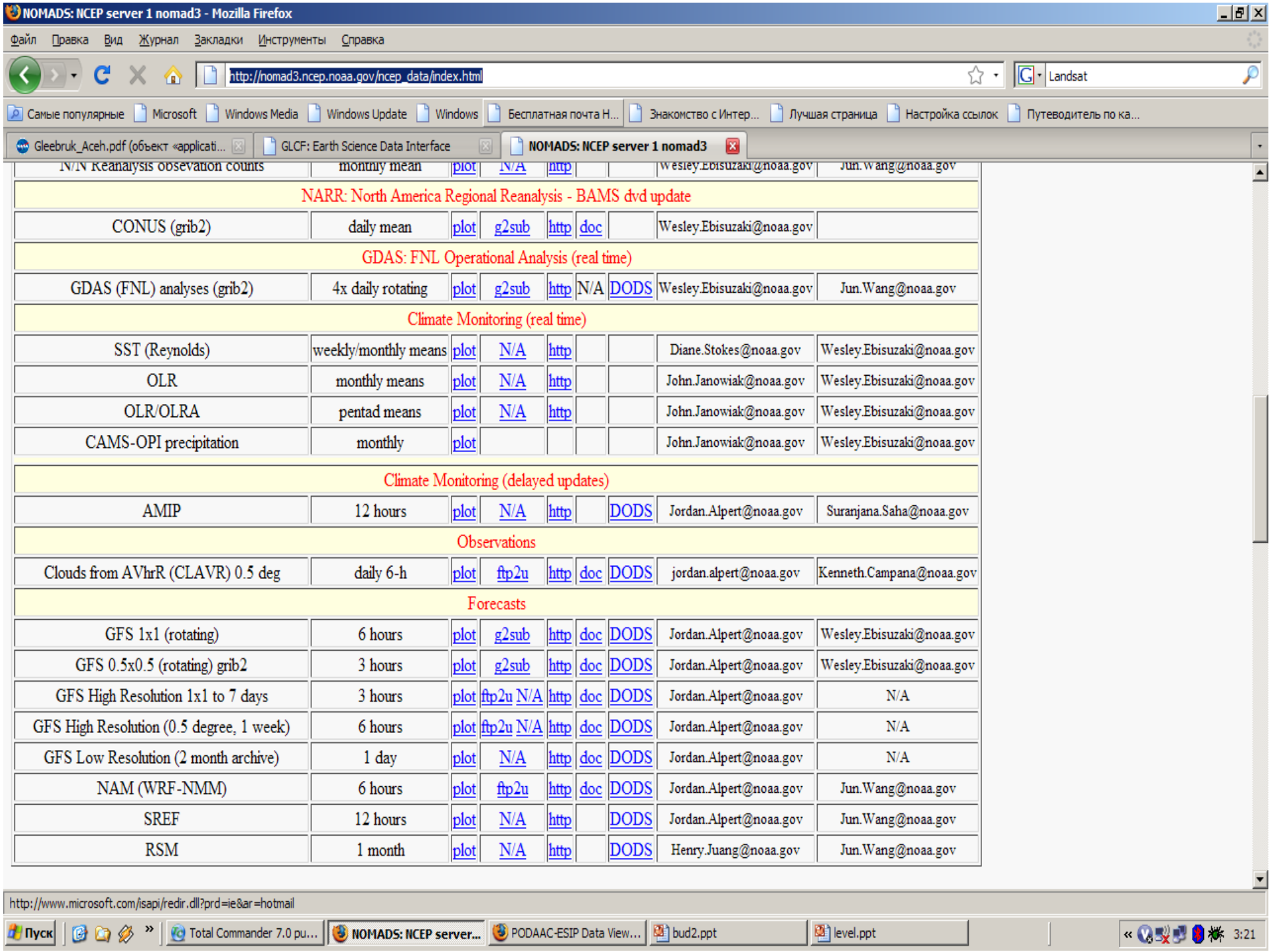
Plots, Data, Points of Contact

last update to this web page:20080226

The following table list several data sets. By clicking on the appropriate command, you can (1) make plots, (2) FTP the files to your computer -- slice, dice and subset large files or (3) obtain documentation or (4) use the DODS(OPeN-DAP)/GDS server to get data values directly from our matrix of holdings. At this time, some options are not available.

Nomad3 is running the "development" version of the plotting package.

Data Set	freq	plot	ftp	http	doc	gds	contact 1	contact 2
NCEP/DOE Reanalysis (Reanalysis-2)								
Reanalysis-2 pressure level	4x daily	plot	ftp2u ftp	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 non-pressure level	4x daily	plot	ftp2u N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 spectral sigma analyses	4x daily		N/A	http	doc		Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 sfcanl (to run model)	4x daily		N/A	http	doc		Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 pressure level	monthly mean	plot	ftp2u N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 non-pressure level	monthly mean	plot	ftp2u N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 diabatic heating etc	monthly mean	plot	ftp2u N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
NCEP/DOE Reanalysis (Reanalysis-2) Rotating Archive, latest analyses								
Reanalysis-2 pressure level	4x daily rotating	plot	ftp2u N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 non-pressure level	4x daily rotating	plot	ftp2u N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Reanalysis-2 model init conditions	4x daily rotating		N/A	http	doc	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
CDAS-NCEP/NCAR Reanalysis								



NOMADS: NCEP server 1 nomad3 - Mozilla Firefox

Файл Правка Вид Журнал Закладки Инструменты Справка

http://nomad3.ncep.noaa.gov/ncep_data/index.html

Landsat

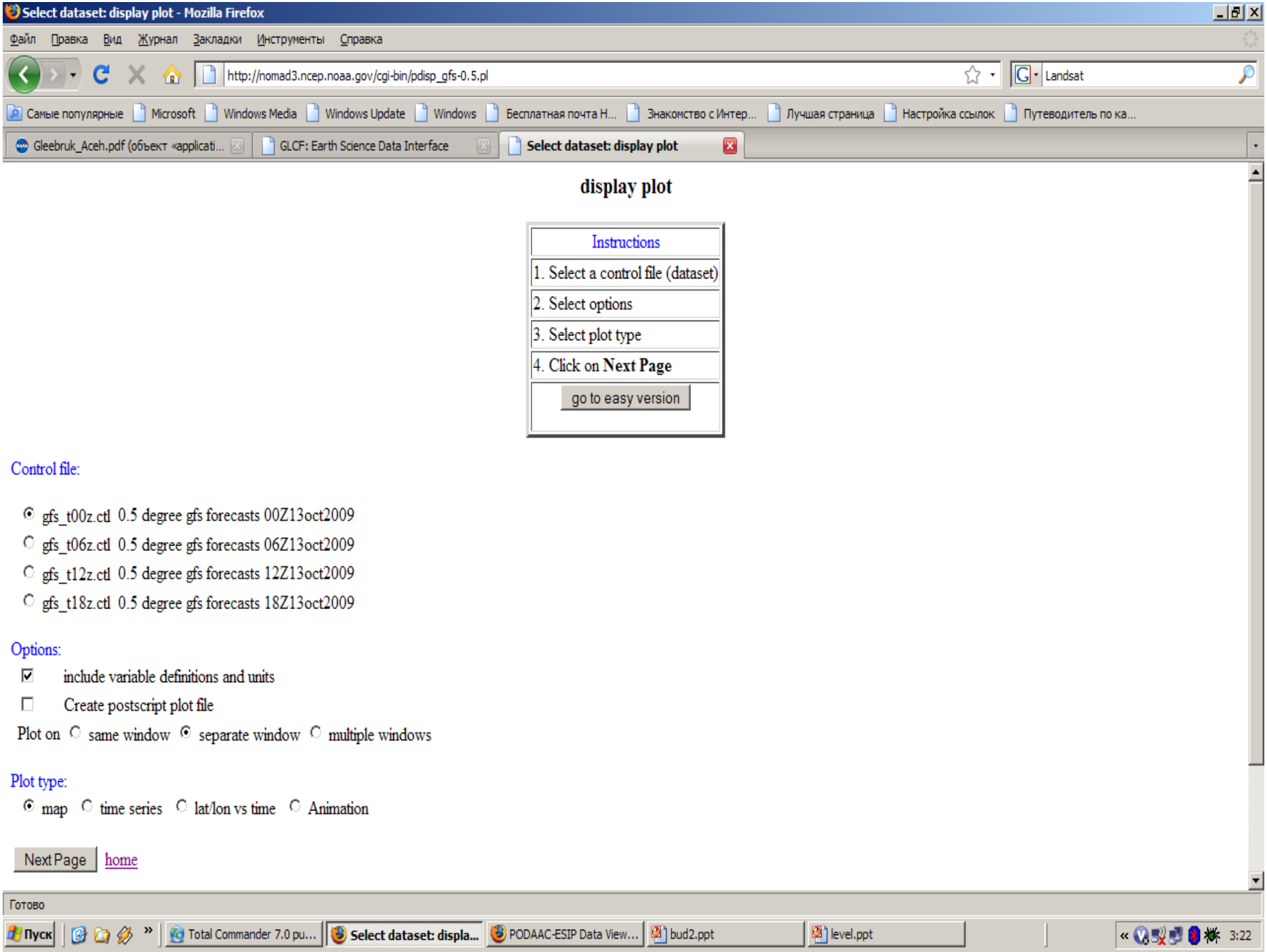
Самые популярные | Microsoft | Windows Media | Windows Update | Windows | Бесплатная почта H... | Знакомство с Интер... | Лучшая страница | Настройка ссылок | Путеводитель по ка...

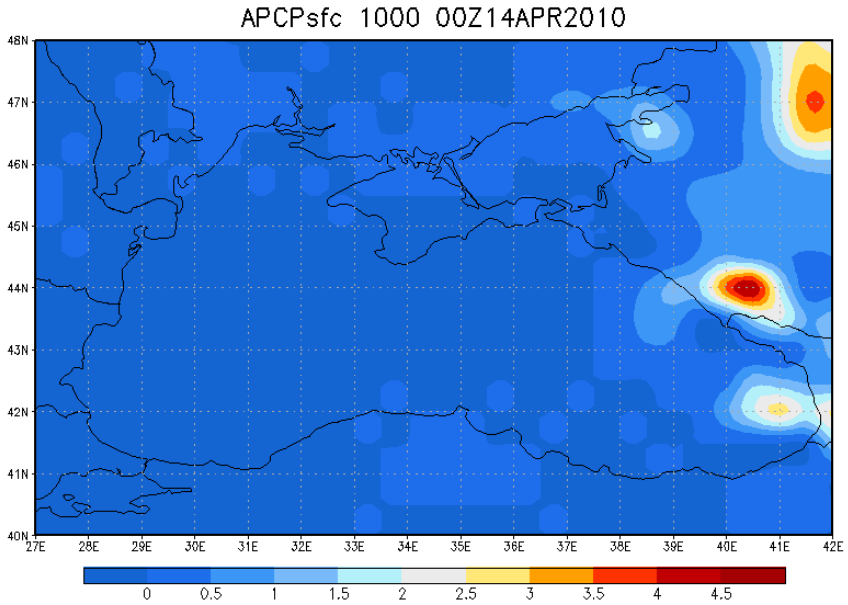
Gleebruk_Aceh.pdf (объект «applicati... | GLCF: Earth Science Data Interface | NOMADS: NCEP server 1 nomad3

N/N Reanalysis observation counts	monthly mean	plot	N/A	http			Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
NARR: North America Regional Reanalysis - BAMS dvd update								
CONUS (grib2)	daily mean	plot	g2sub	http	doc		Wesley.Ebisuzaki@noaa.gov	
GDAS: FNL Operational Analysis (real time)								
GDAS (FNL) analyses (grib2)	4x daily rotating	plot	g2sub	http	N/A	DODS	Wesley.Ebisuzaki@noaa.gov	Jun.Wang@noaa.gov
Climate Monitoring (real time)								
SST (Reynolds)	weekly/monthly means	plot	N/A	http			Diane.Stokes@noaa.gov	Wesley.Ebisuzaki@noaa.gov
OLR	monthly means	plot	N/A	http			John.Janowiak@noaa.gov	Wesley.Ebisuzaki@noaa.gov
OLR/OLRA	pentad means	plot	N/A	http			John.Janowiak@noaa.gov	Wesley.Ebisuzaki@noaa.gov
CAMS-OPI precipitation	monthly	plot					John.Janowiak@noaa.gov	Wesley.Ebisuzaki@noaa.gov
Climate Monitoring (delayed updates)								
AMIP	12 hours	plot	N/A	http		DODS	Jordan.Alpert@noaa.gov	Suranjana.Saha@noaa.gov
Observations								
Clouds from AVhrR (CLAVR) 0.5 deg	daily 6-h	plot	ftp2u	http	doc	DODS	jordan.alpert@noaa.gov	Kenneth.Campana@noaa.gov
Forecasts								
GFS 1x1 (rotating)	6 hours	plot	g2sub	http	doc	DODS	Jordan.Alpert@noaa.gov	Wesley.Ebisuzaki@noaa.gov
GFS 0.5x0.5 (rotating) grib2	3 hours	plot	g2sub	http	doc	DODS	Jordan.Alpert@noaa.gov	Wesley.Ebisuzaki@noaa.gov
GFS High Resolution 1x1 to 7 days	3 hours	plot	ftp2u N/A	http	doc	DODS	Jordan.Alpert@noaa.gov	N/A
GFS High Resolution (0.5 degree, 1 week)	6 hours	plot	ftp2u N/A	http	doc	DODS	Jordan.Alpert@noaa.gov	N/A
GFS Low Resolution (2 month archive)	1 day	plot	N/A	http	doc	DODS	Jordan.Alpert@noaa.gov	N/A
NAM (WRF-NMM)	6 hours	plot	ftp2u	http	doc	DODS	Jordan.Alpert@noaa.gov	Jun.Wang@noaa.gov
SREF	12 hours	plot	N/A	http		DODS	Jordan.Alpert@noaa.gov	Jun.Wang@noaa.gov
RSM	1 month	plot	N/A	http		DODS	Henry.Juang@noaa.gov	Jun.Wang@noaa.gov

http://www.microsoft.com/isapi/redir.dll?prd=ie&ar=hotmail

Пуск | Total Commander 7.0 pu... | NOMADS: NCEP server... | PODAAC-ESIP Data View... | bud2.ppt | level.ppt | 3:21


Select dataset: display plot - Mozilla Firefox
Файл Правка Вид Журнал Закладки Инструменты Справка
http://nomad3.ncep.noaa.gov/cgi-bin/pdisp_gfs-0.5.pl
Landsat
Самые популярные Microsoft Windows Media Windows Update Windows Бесплатная почта Н... Знакомство с Интер... Лучшая страница Настройка ссылок Путеводитель по ка...
Gleebruk_Aceh.pdf (объект «applicati...
GLCF: Earth Science Data Interface
Select dataset: display plot
display plot
Instructions
1. Select a control file (dataset)
2. Select options
3. Select plot type
4. Click on Next Page
go to easy version
Control file:
gfs_t00z.ctl 0.5 degree gfs forecasts 00Z13oct2009
gfs_t06z.ctl 0.5 degree gfs forecasts 06Z13oct2009
gfs_t12z.ctl 0.5 degree gfs forecasts 12Z13oct2009
gfs_t18z.ctl 0.5 degree gfs forecasts 18Z13oct2009
Options:
include variable definitions and units
Create postscript plot file
Plot on same window separate window multiple windows
Plot type:
map time series lat/lon vs time Animation
Next Page
home
Готово
Пуск
Total Commander 7.0 pu...
Select dataset: displa...
PODAAC-ESIP Data View...
bud2.ppt
level.ppt
3:22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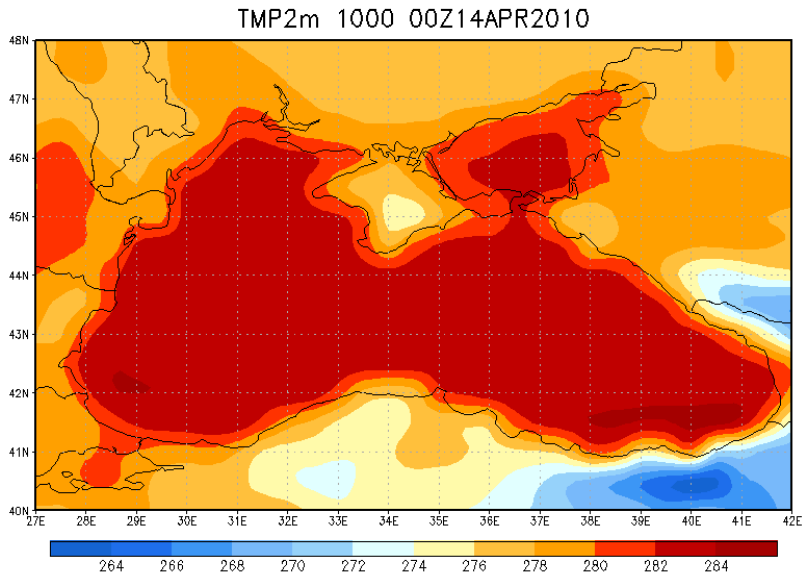
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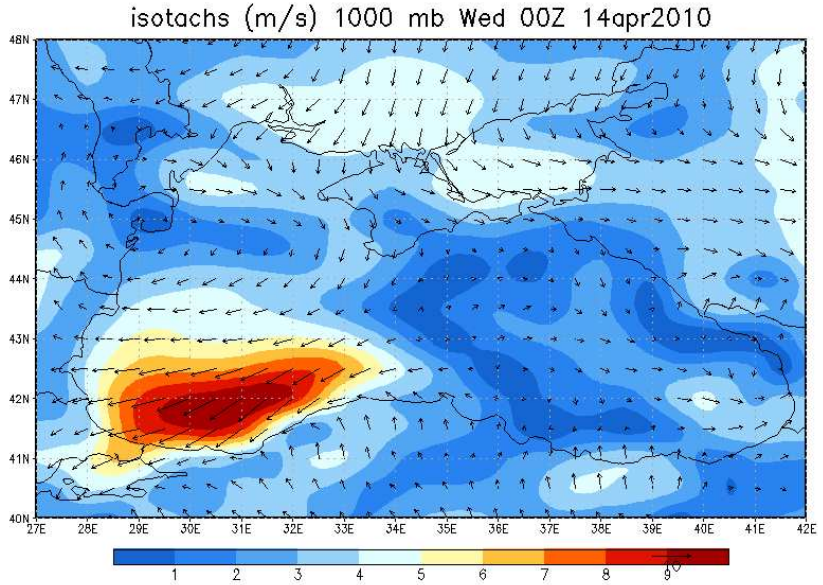
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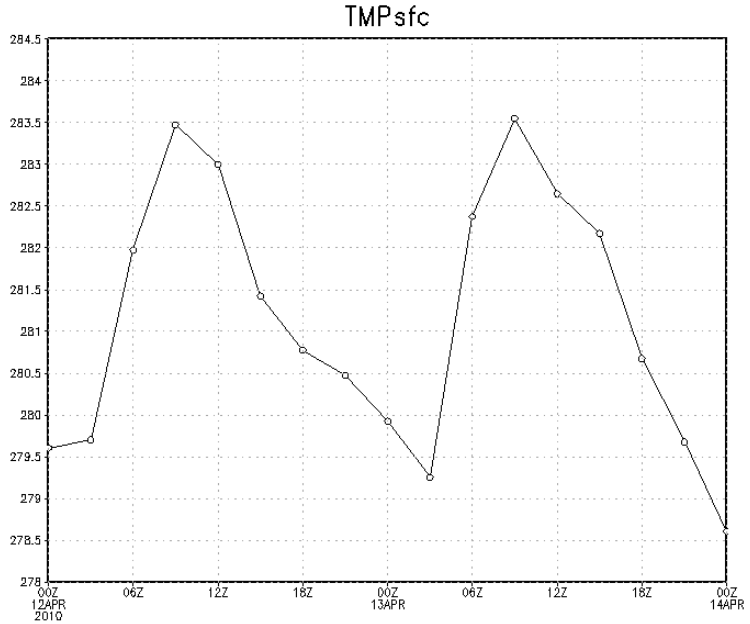
TMPsfc
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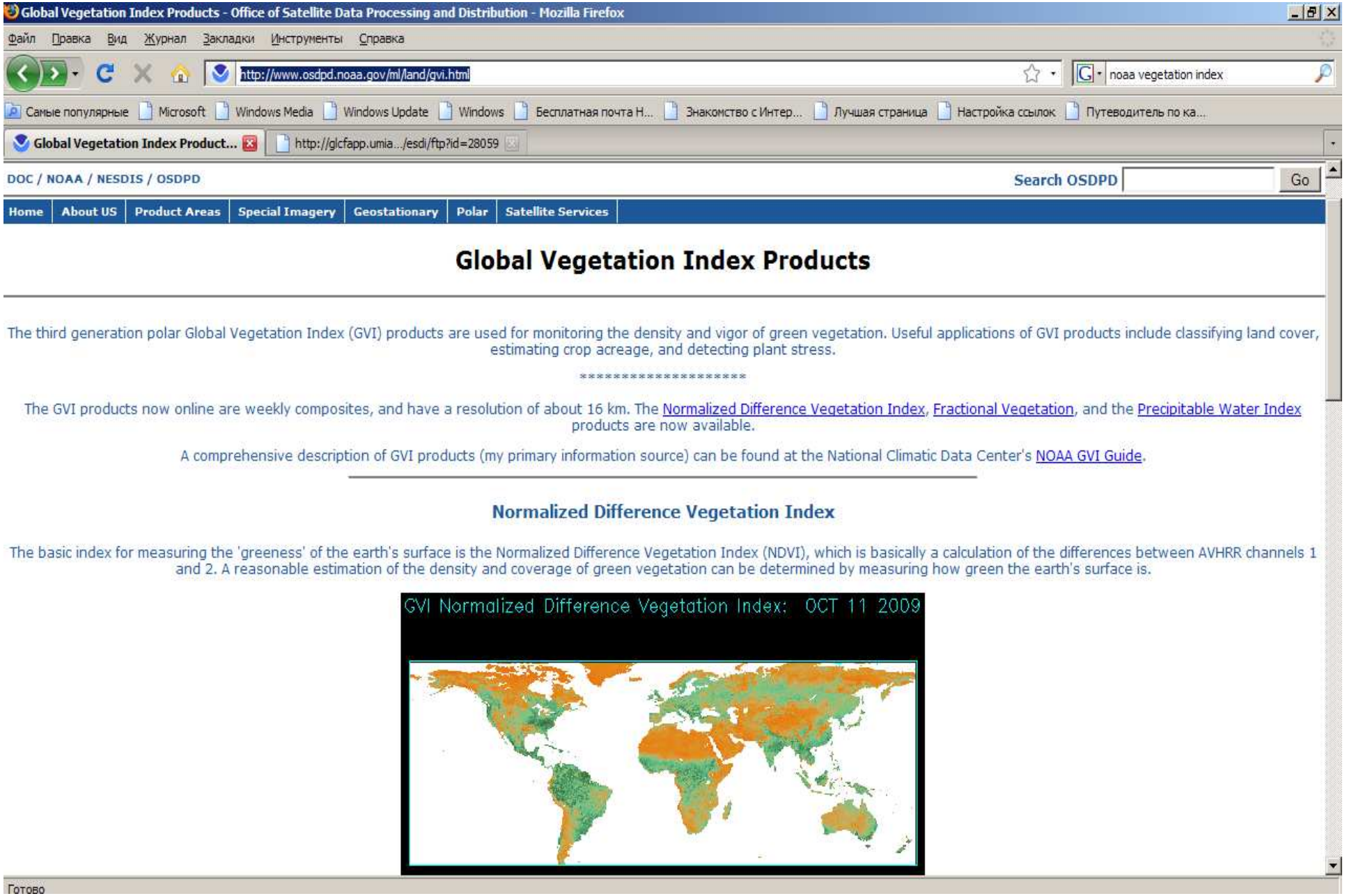
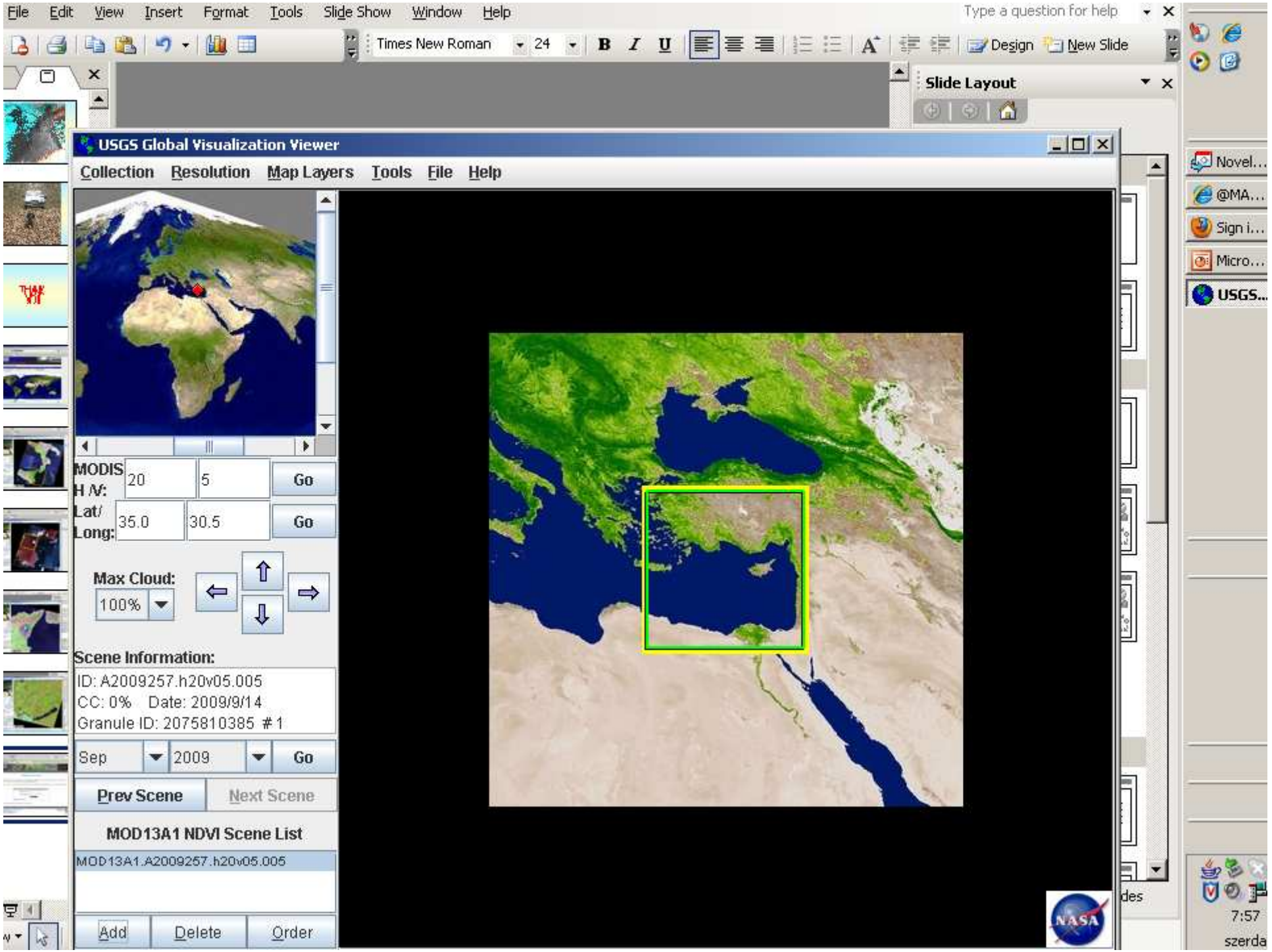
http://www.osdpd.noaa.gov/ml/land/gvi.html




File Edit View Insert Format Tools Slide Show Window Help
Type a question for help
Times New Roman 24
Design New Slide
Slide Layout
USGS Global Visualization Viewer
Collection Resolution Map Layers Tools File Help
MODIS H /V: 20 5 Go
Lat/ Long: 35.0 30.5 Go
Max Cloud:
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Scene Information:
ID: A2009257.h20v05.005
CC: 0% Date: 2009/9/14
Granule ID: 2075810385 #1
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MOD13A1 NDVI Scene List
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USGS...
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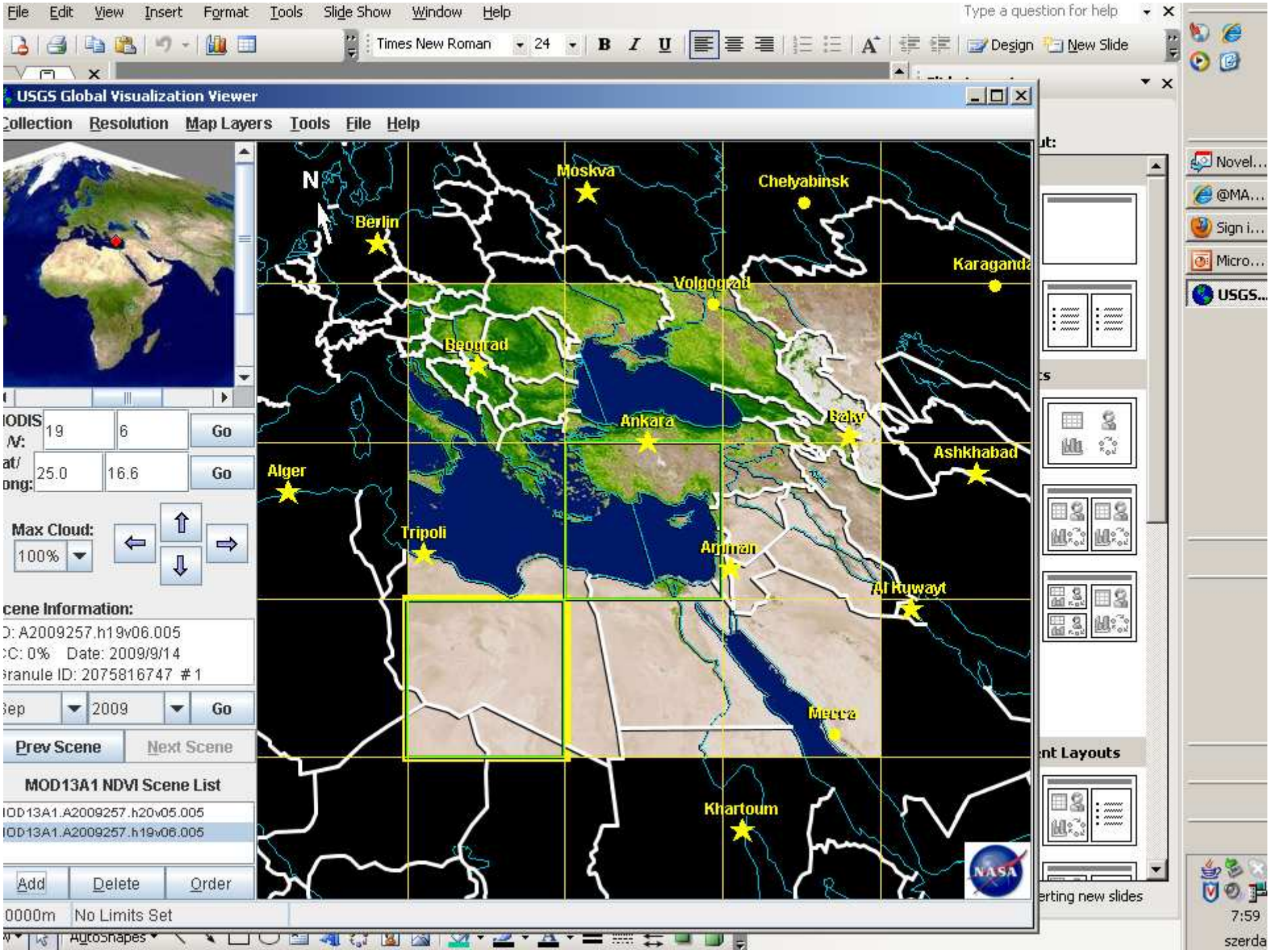
File Edit View Insert Format Tools Slide Show Window Help
Type a question for help
Times New Roman 24
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USGS Global Visualization Viewer
Collection Resolution Map Layers Tools File Help
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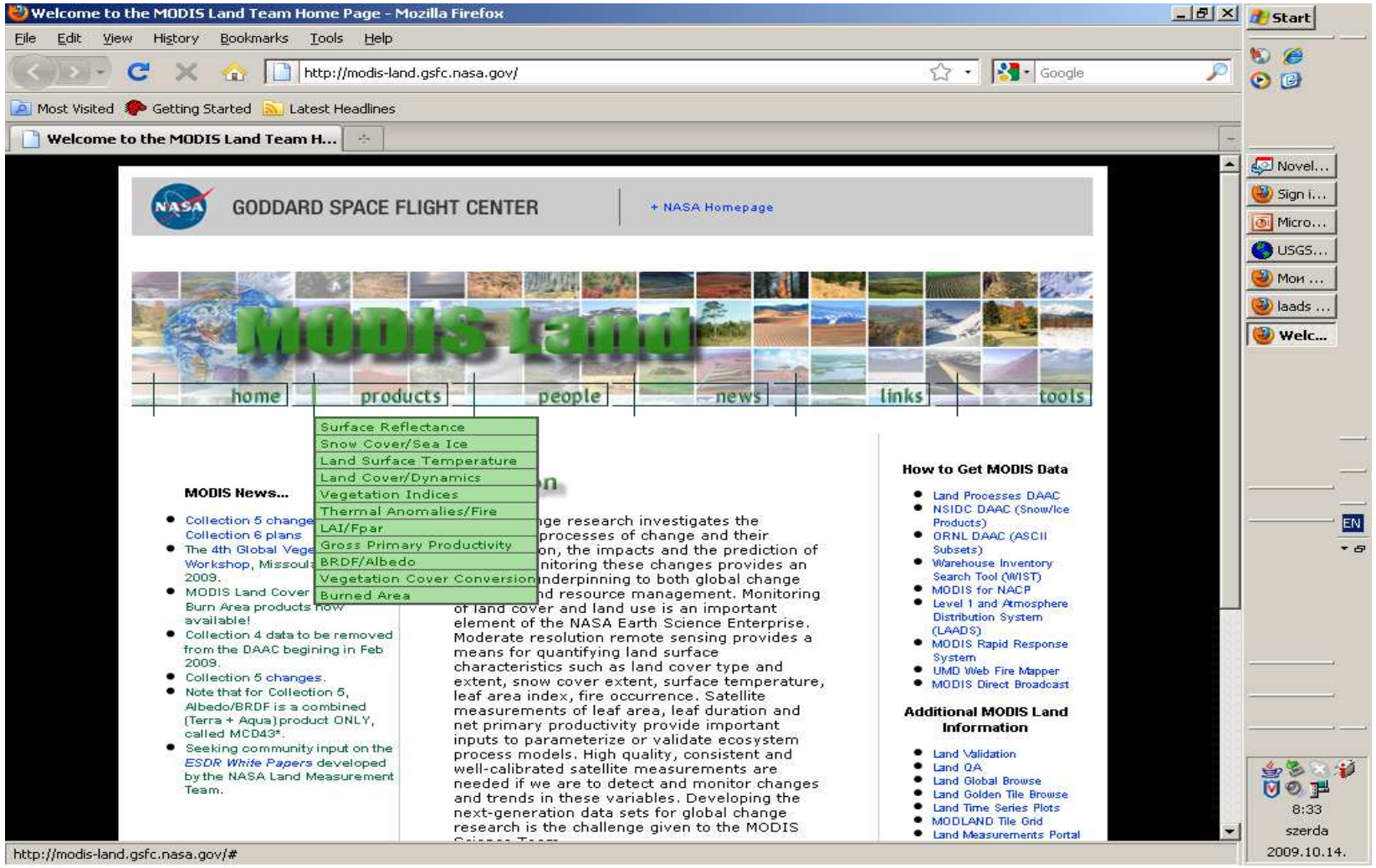
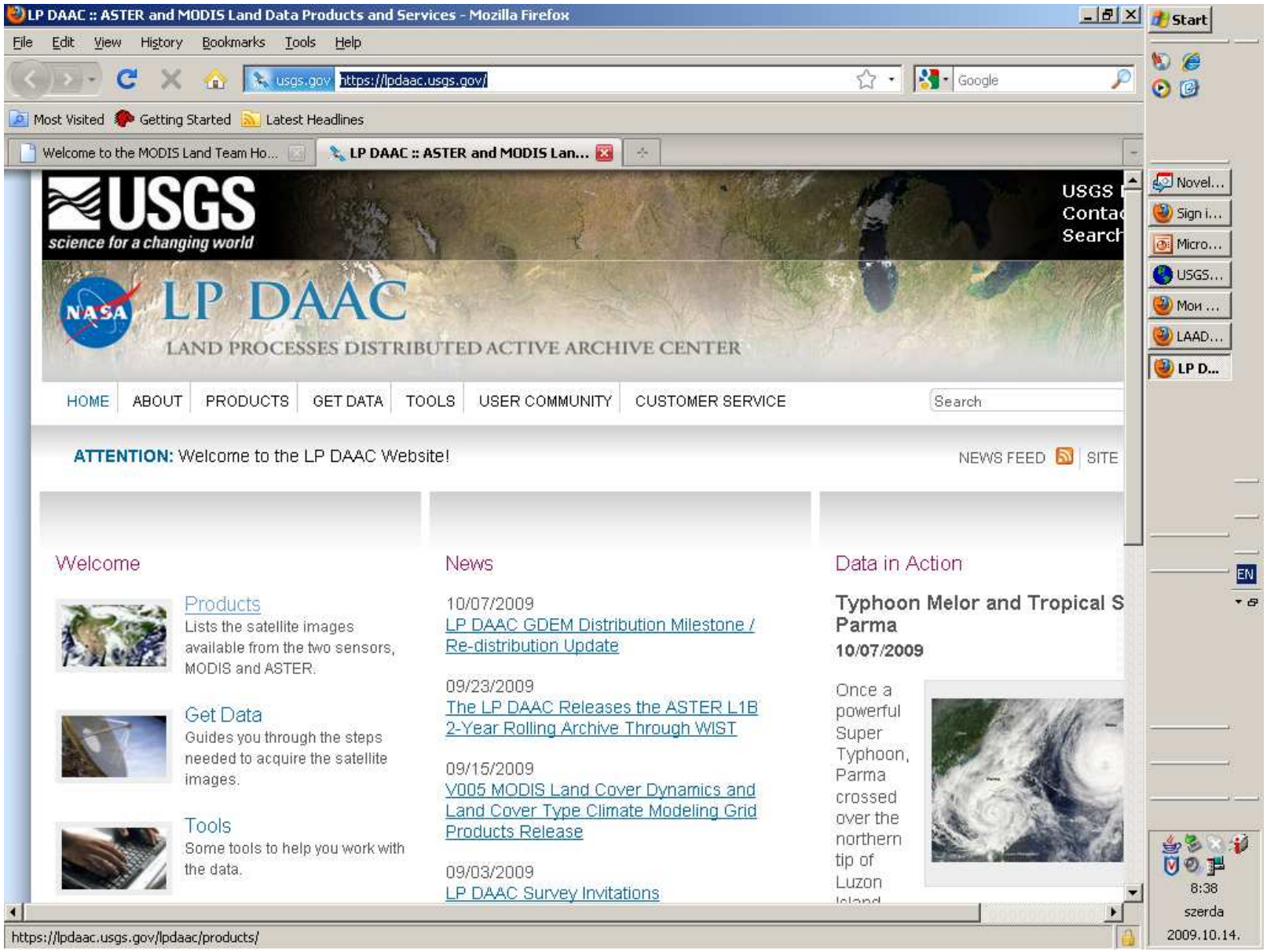
szerda

Animation NDVI

http://modis-land.gsfc.nasa.gov/



https://lpdaac.usgs.gov/



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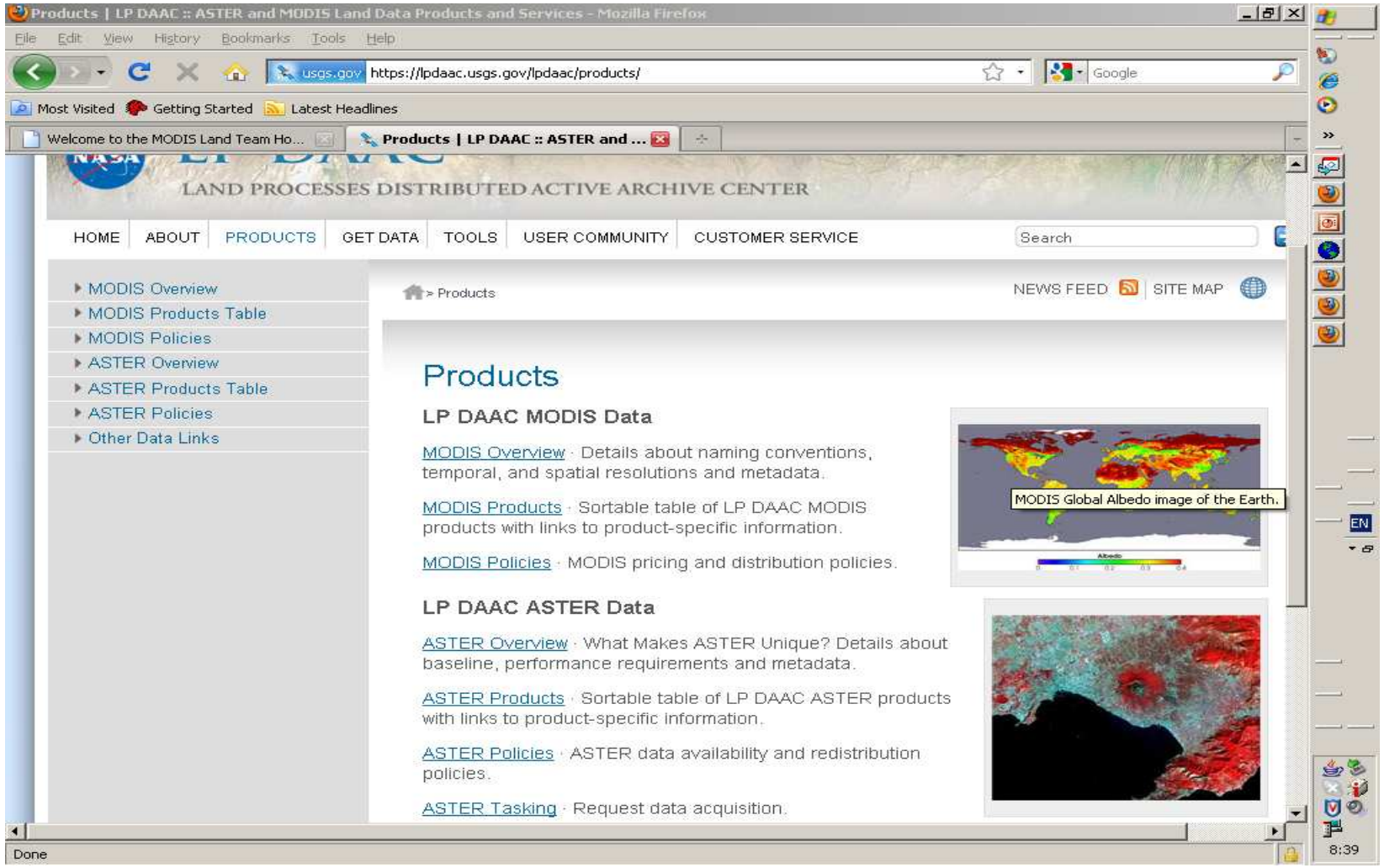
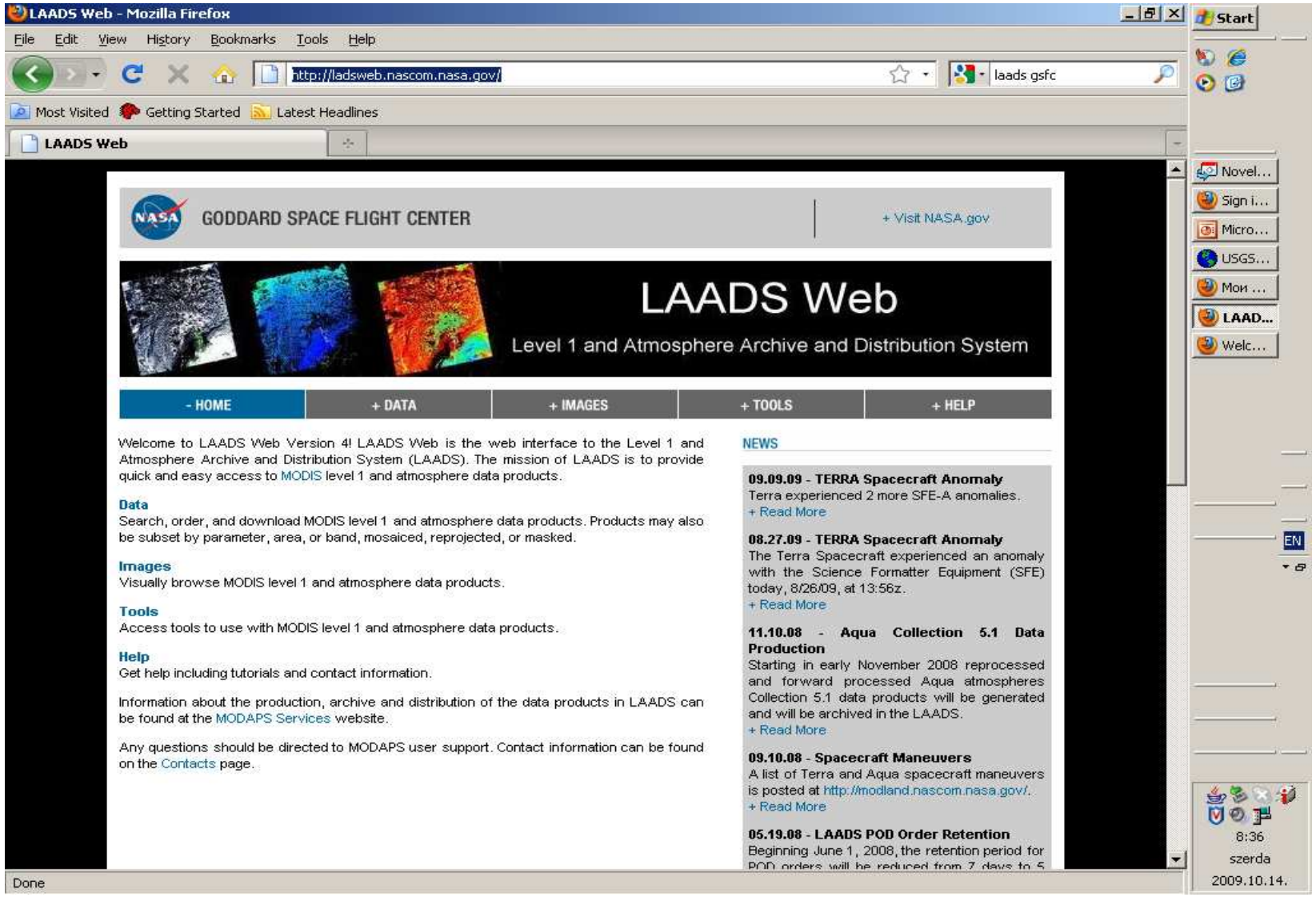


http://ladsweb.nascom.nasa.gov/



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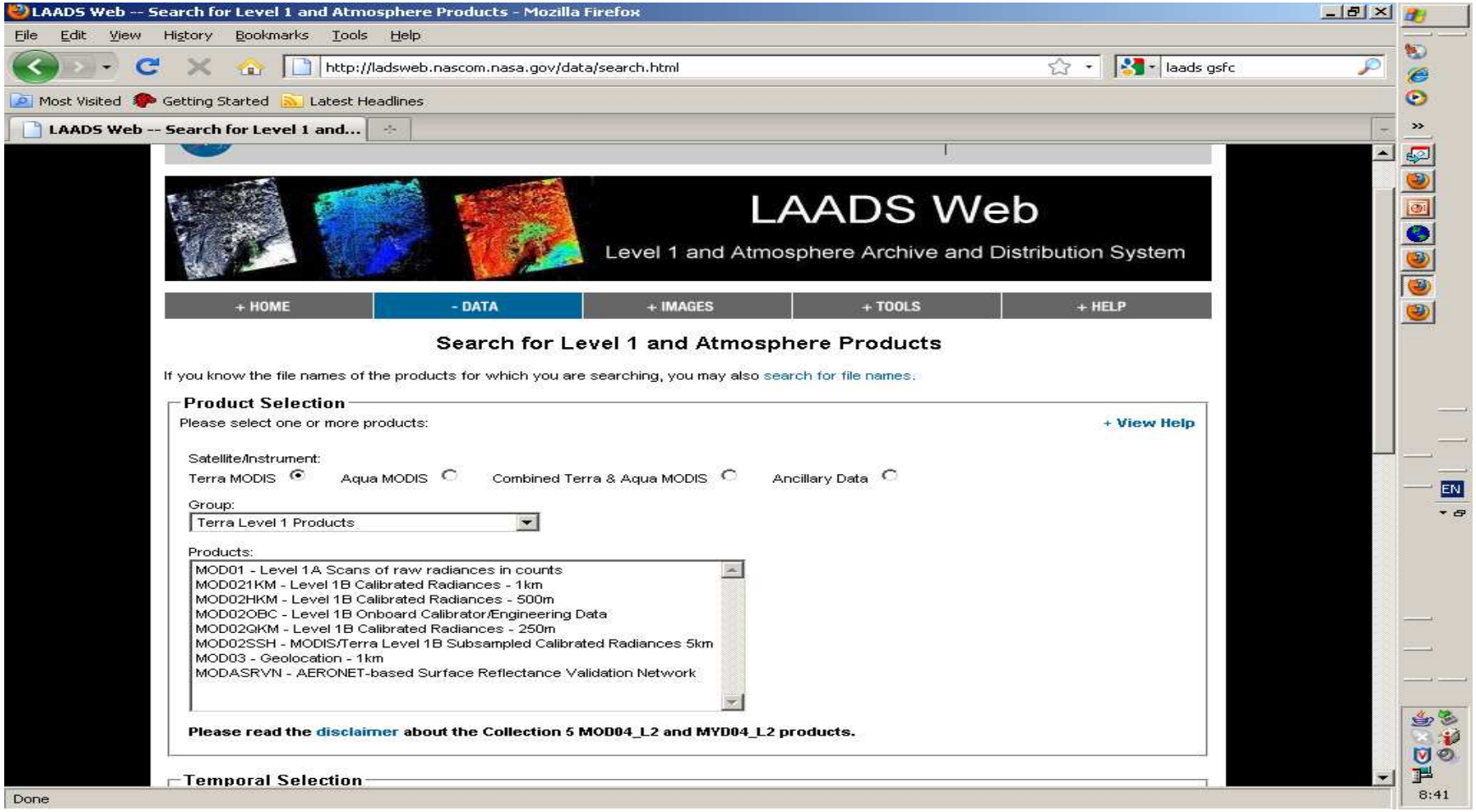

EOLi "ESA's Link to Earth Observation" - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://earth.esa.int/EOLi/EOLi.html

eolisa esa

Most Visited Getting Started Latest Headlines

Search the web Search BBC News BBC Sports YouTube Facebook Games Financial Times Word of the Day Weather Options

EOLi "ESA's Link to Earth Observation"

esa EOLi Screenshots

EOLi "ESA's Link to Earth Observation"

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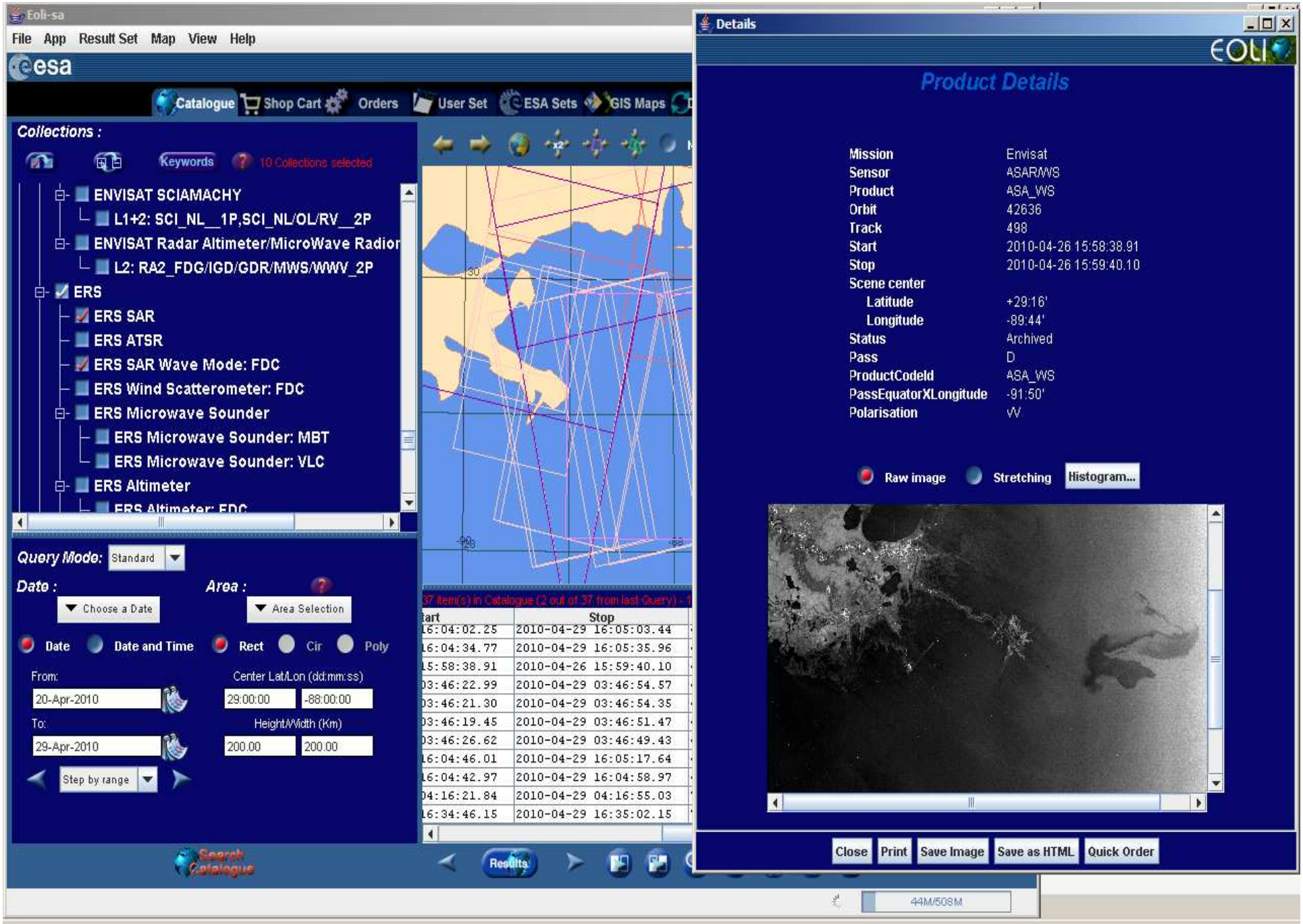
Contacts

For any question on using EOLi, on the catalogue and ordering service, on registration, or any other EO related information, please contact our Help Desk:

EO Helpdesk

Done


Eoli-sa
File App Result Set Map View Help
esa
Catalogue Shop Cart Orders User Set ESA Sets GIS Maps
Collections :
Keywords 10 Collections selected
ENVISAT SCIAMACHY
L1+2: SCI_NL__1P,SCI_NL/OL/RV__2P
ENVISAT Radar Altimeter/MicroWave Radior
L2: RA2_FDG/IGD/GDR/MWS/WWV_2P
ERS
ERS SAR
ERS ATSR
ERS SAR Wave Mode: FDC
ERS Wind Scatterometer: FDC
ERS Microwave Sounder
ERS Microwave Sounder: MBT
ERS Microwave Sounder: VLC
ERS Altimeter
Query Mode: Standard
Date :
Choose a Date
Area :
Area Selection
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Date and Time
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Poly
From:
20-Apr-2010
To:
29-Apr-2010
Center Lat/Lon (dd:mm:ss)
29:00:00
-88:00:00
Height/Width (Km)
200.00
200.00
Step by range
Search Catalogue
Stop
2010-04-29 16:05:03.44
2010-04-29 16:05:35.96
2010-04-26 15:59:40.10
2010-04-29 03:46:54.57
2010-04-29 03:46:54.35
2010-04-29 03:46:51.47
2010-04-29 03:46:49.43
2010-04-29 16:05:17.64
2010-04-29 16:04:58.97
2010-04-29 04:16:55.03
2010-04-29 16:35:02.15
Results
Details
Product Details
Mission Envisat
Sensor ASAR/WS
Product ASA_WS
Orbit 42636
Track 498
Start 2010-04-26 15:58:38.91
Stop 2010-04-26 15:59:40.10
Scene center
Latitude +29:16'
Longitude -89:44'
Status Archived
Pass D
ProductCodeId ASA_WS
PassEquatorXLongitude -91:50'
Polarisation VV
Raw image
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Histogram...
Close
Print
Save Image
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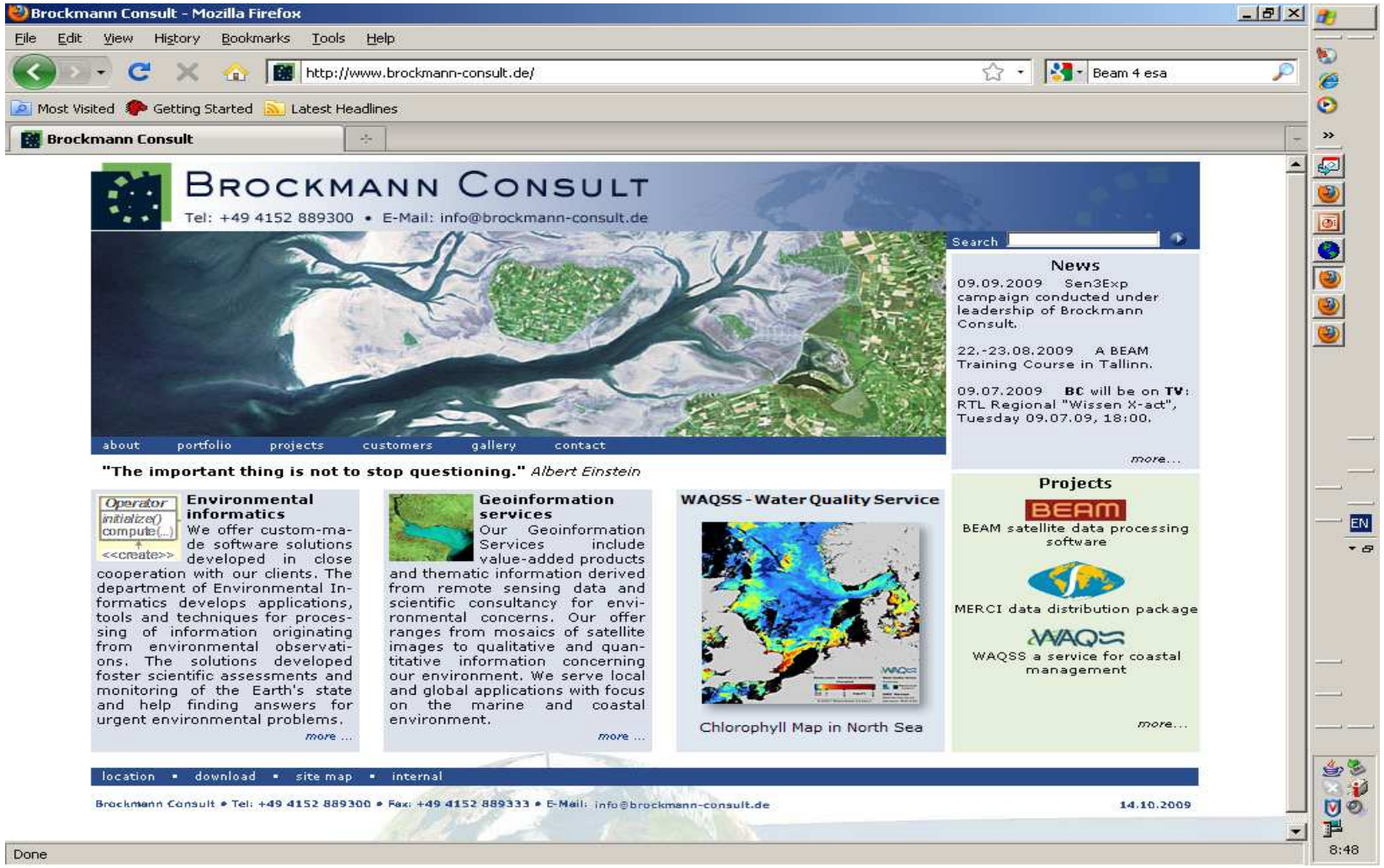
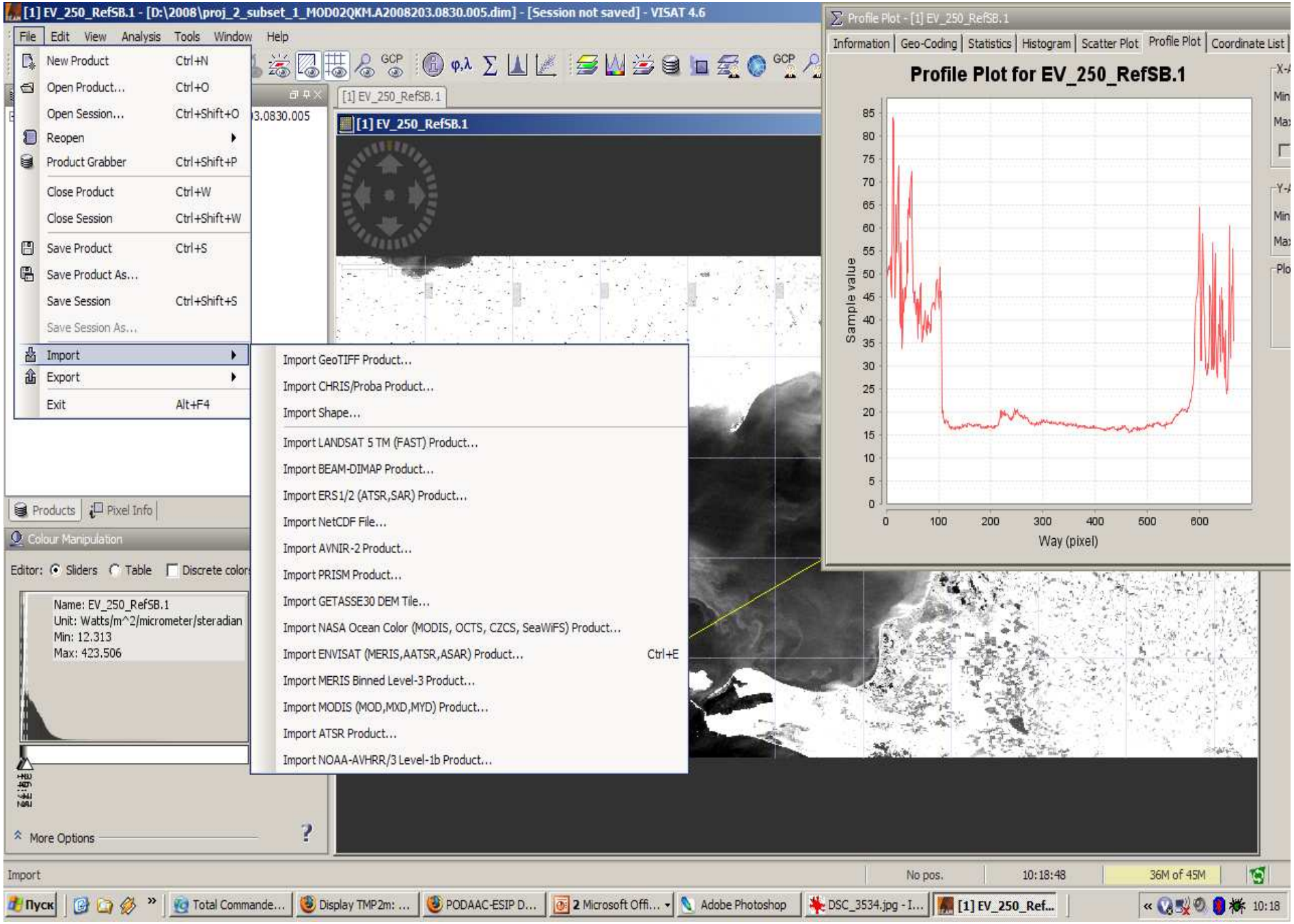
44M/508M

Tools - http://www.brockmann-consult.de/




[1] EV_250_RefSB.1 - [D:\2008\proj_2_subset_1_MOD02QKM.A2008203.0830.005.dim] - [Session not saved] - VISAT 4.6
File
Edit
View
Analysis
Tools
Window
Help
New Product Ctrl+N
Open Product... Ctrl+O
Open Session... Ctrl+Shift+O
Reopen
Product Grabber Ctrl+Shift+P
Close Product Ctrl+W
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Import
Export
Exit Alt+F4
Import GeoTIFF Product...
Import CHRIS/Proba Product...
Import Shape...
Import LANDSAT 5 TM (FAST) Product...
Import BEAM-DIMAP Product...
Import ERS1/2 (ATSR,SAR) Product...
Import NetCDF File...
Import AVNIR-2 Product...
Import PRISM Product...
Import GETASSE30 DEM Tile...
Import NASA Ocean Color (MODIS, OCTS, CZCS, SeaWiFS) Product...
Import ENVISAT (MERIS,AATSR,ASAR) Product... Ctrl+E
Import MERIS Binned Level-3 Product...
Import MODIS (MOD,MXD,MYD) Product...
Import ATSR Product...
Import NOAA-AVHRR/3 Level-1b Product...
[1] EV_250_RefSB.1
Products
Pixel Info
Colour Manipulation
Editor: Sliders Table Discrete colors
Name: EV_250_RefSB.1
Unit: Watts/m^2/micrometer/steradian
Min: 12.313
Max: 423.506
More Options
Profile Plot - [1] EV_250_RefSB.1
Information
Geo-Coding
Statistics
Histogram
Scatter Plot
Profile Plot
Coordinate List
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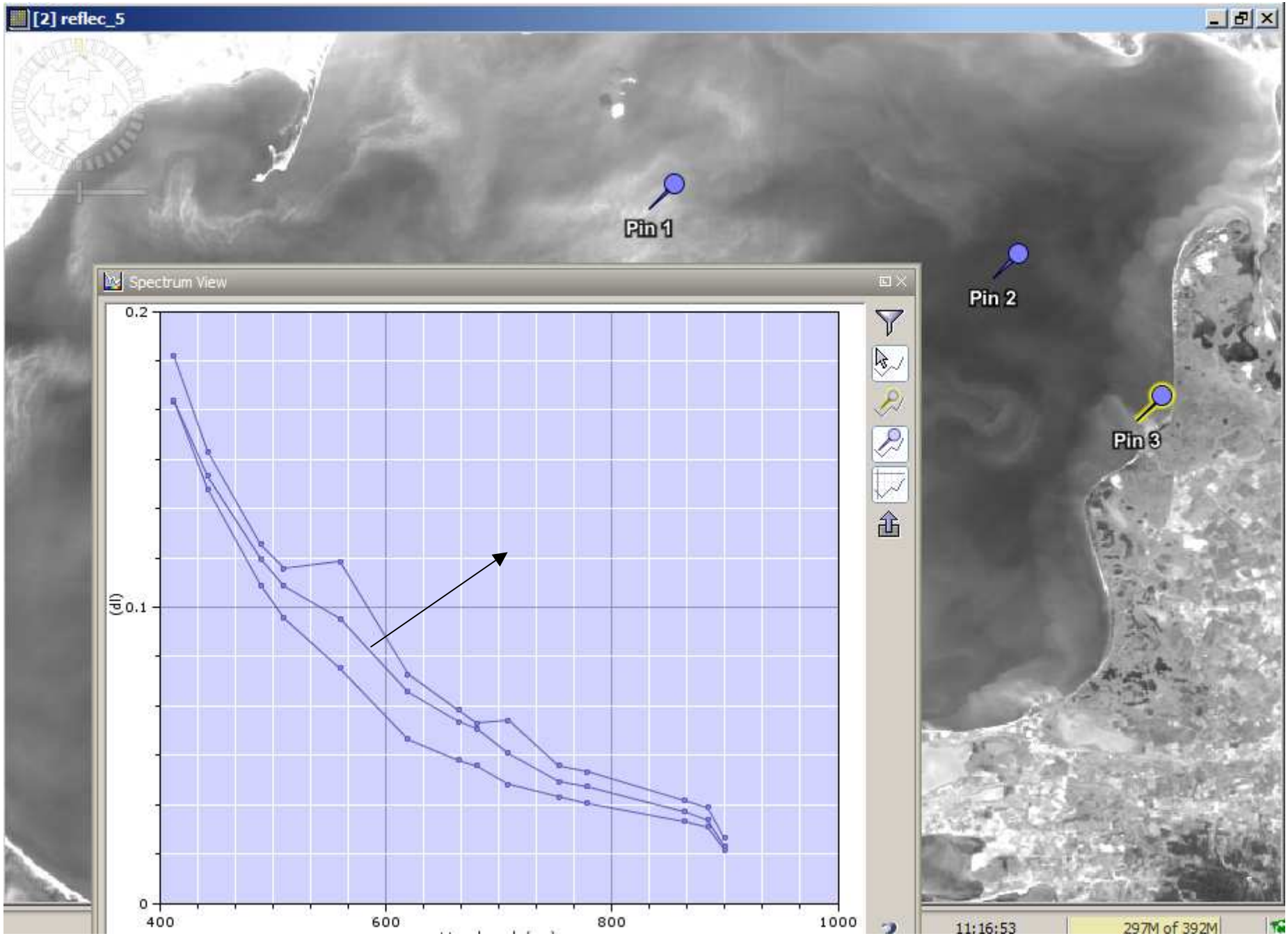
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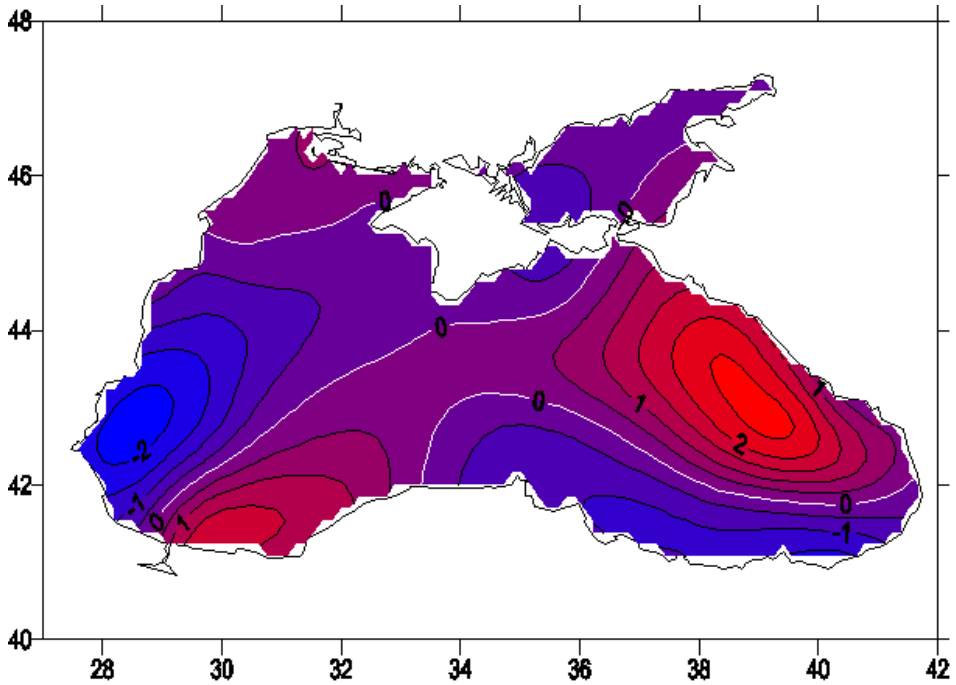
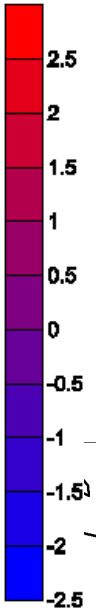
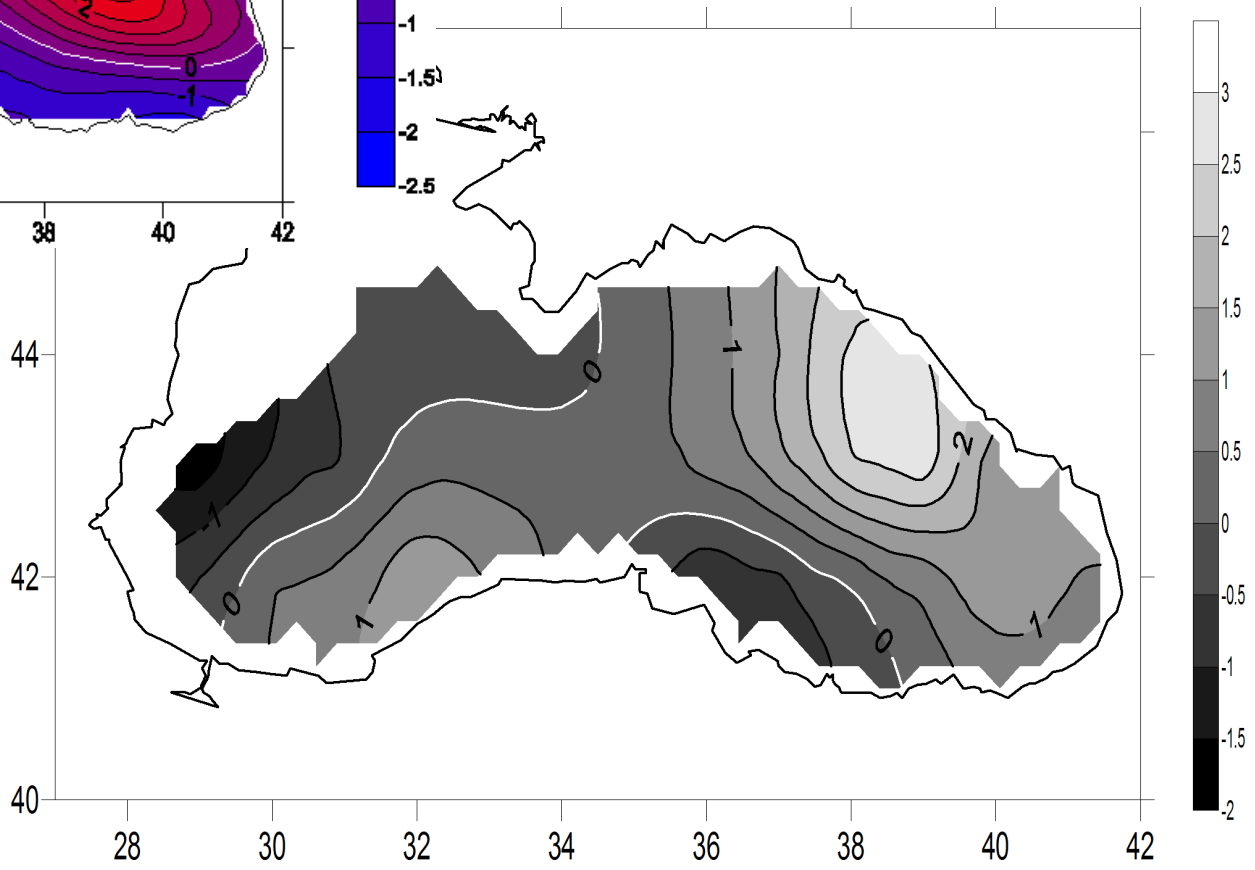


1998-2006

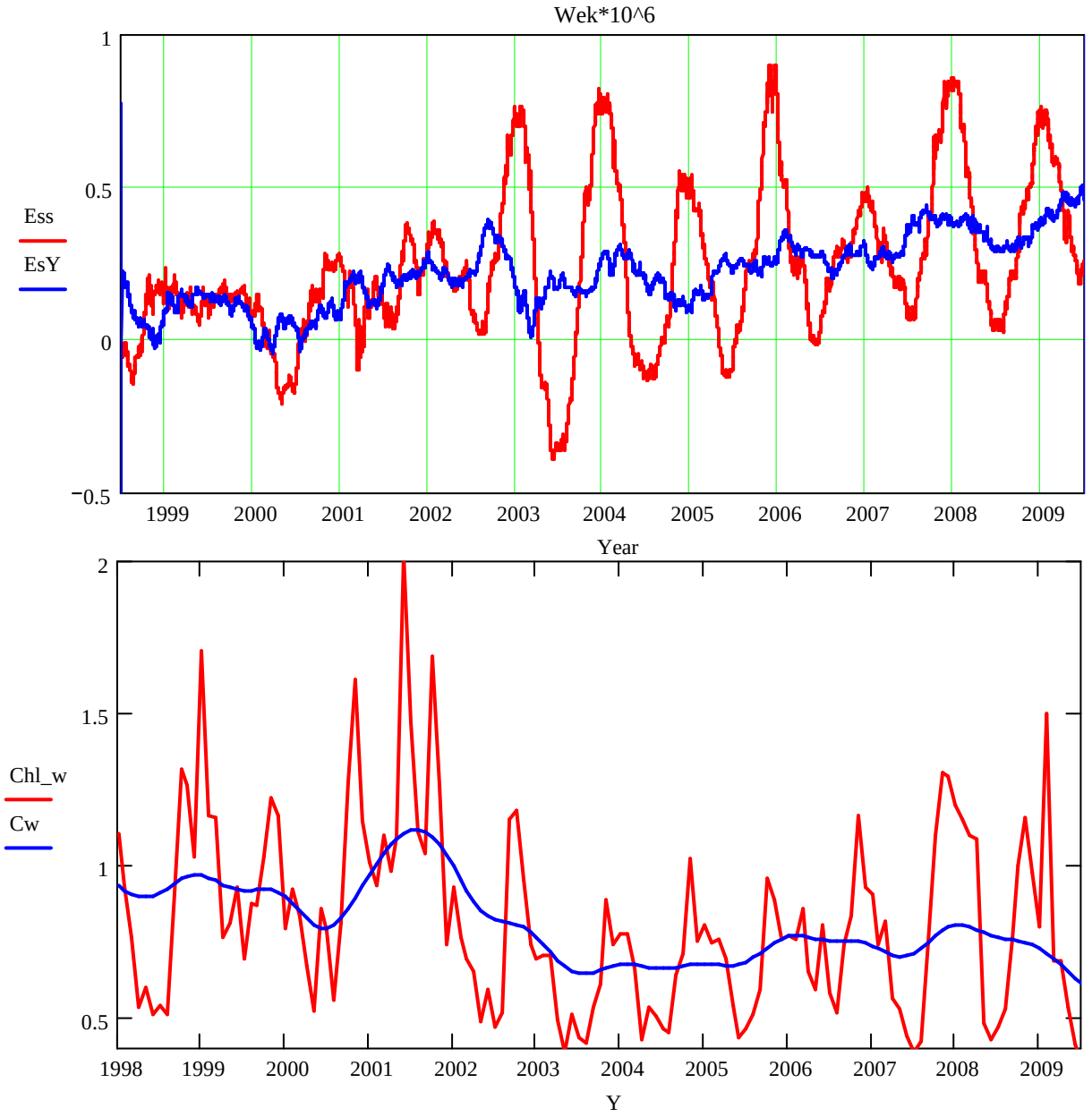


Mean field of the WEkman

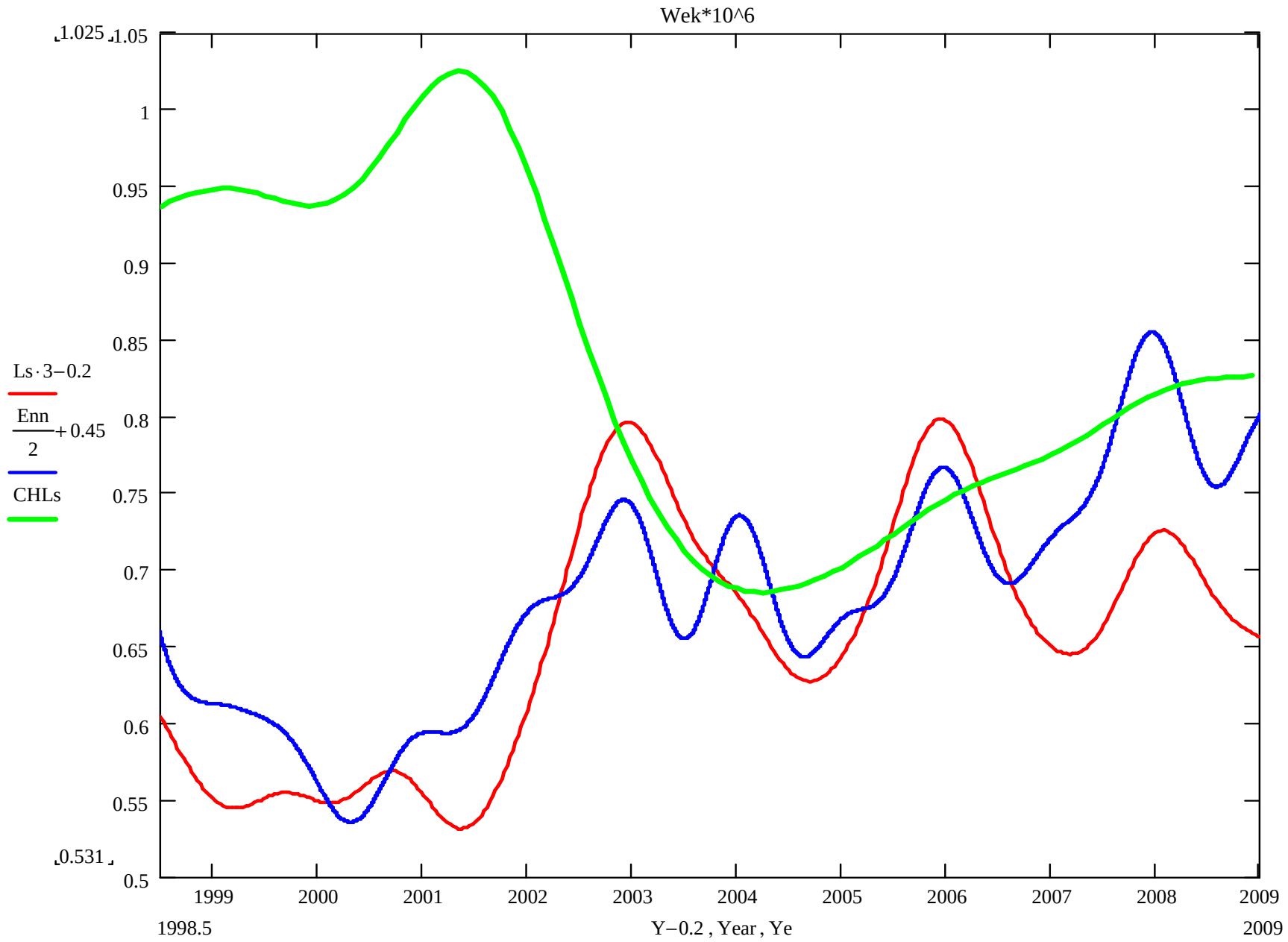


1988-2009

Wind stress curl NCEP and SeaWiFS chl_a concentration

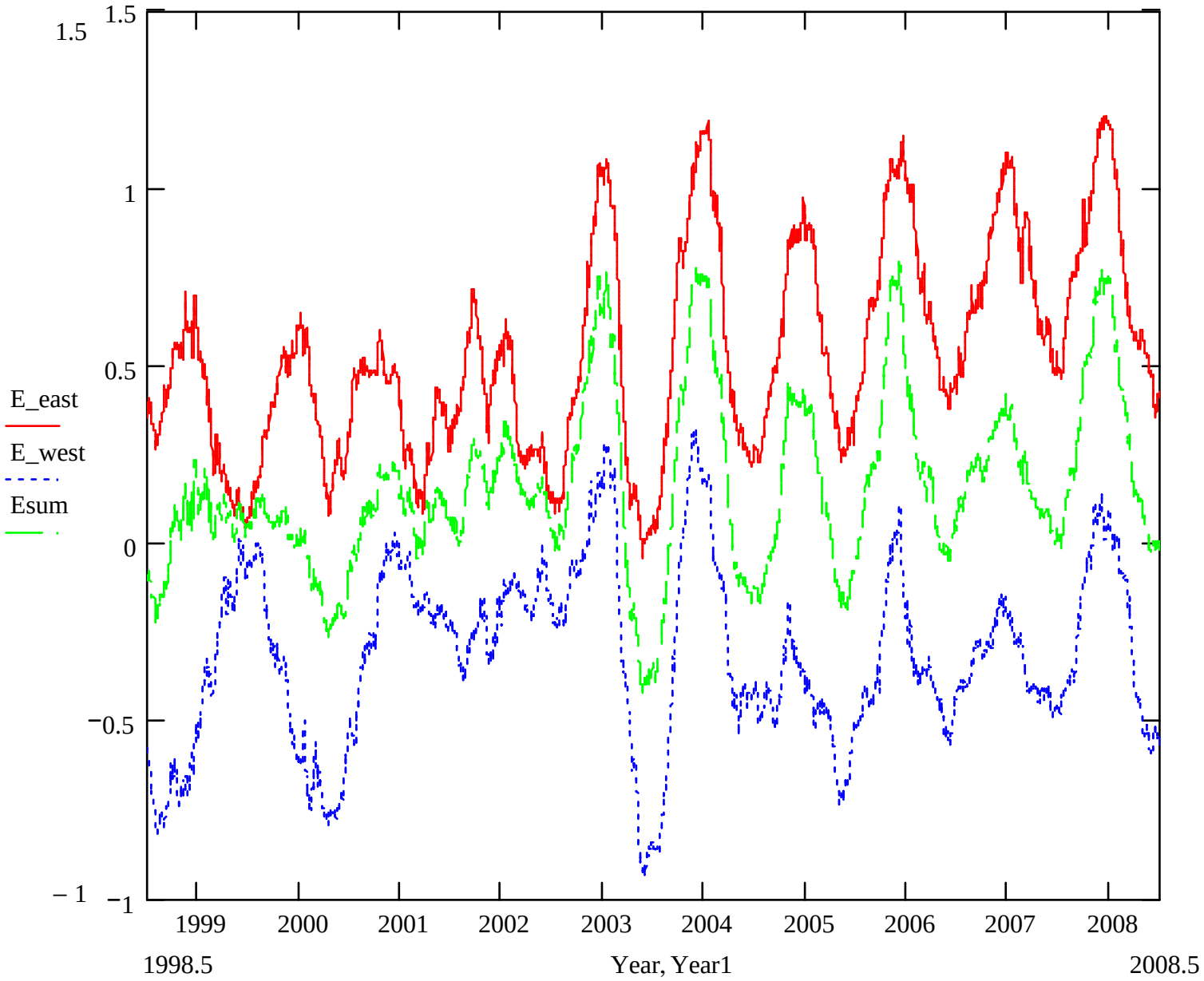


Altimetry derived kinetic energy E_V, Tau, Wекм

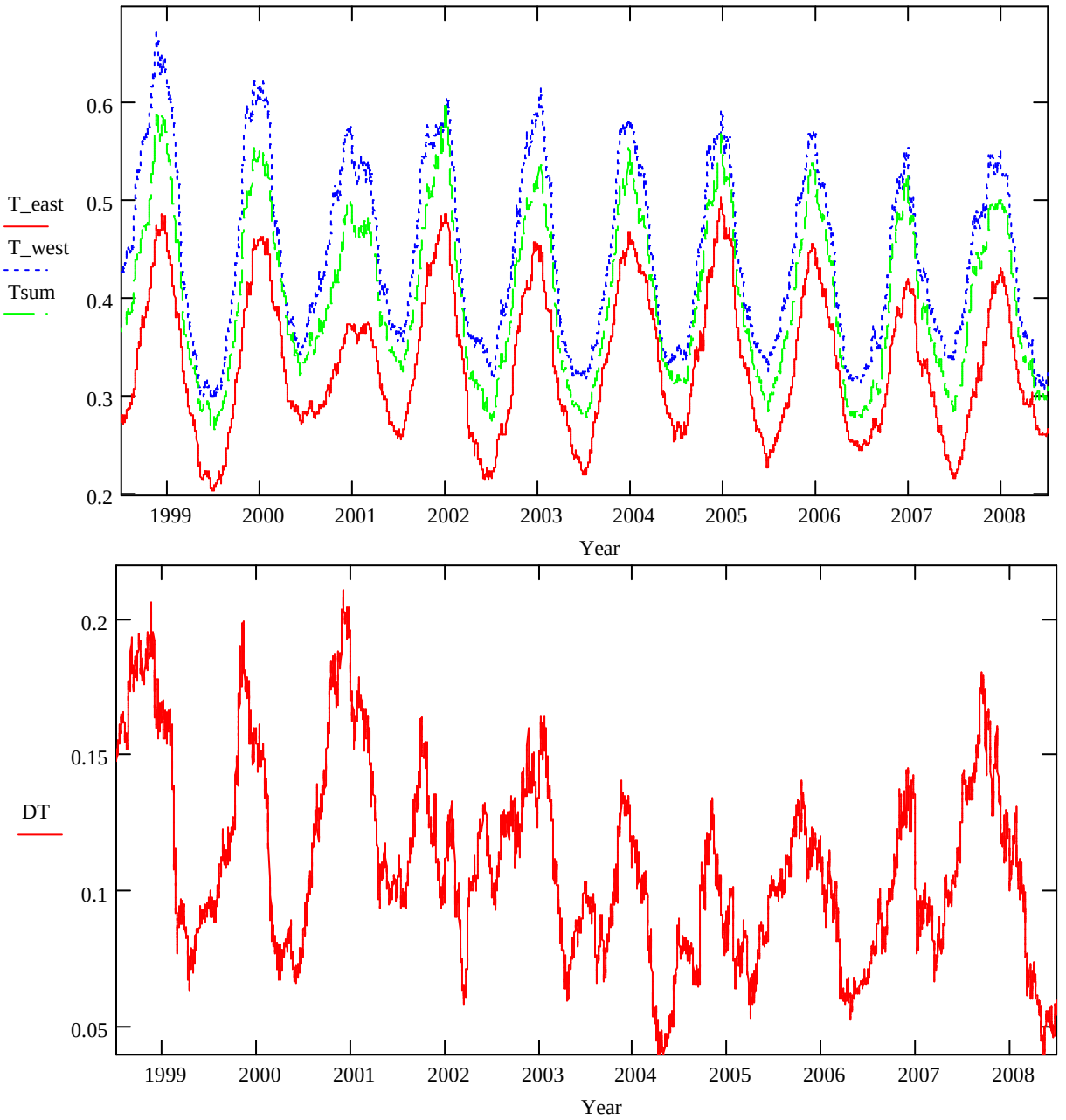


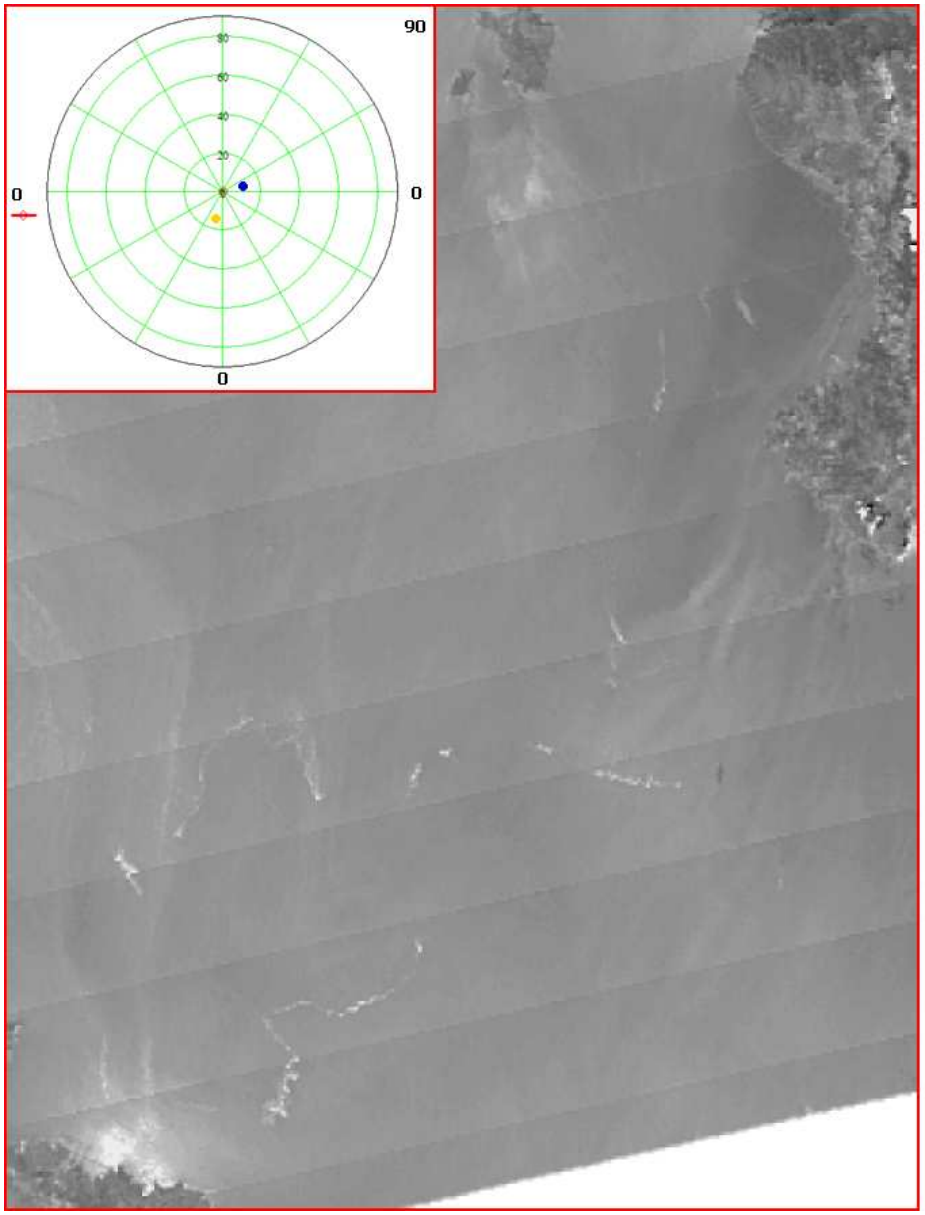
EAST – WEST parts 34E, Wekm

E_east > E_west



WIND STRESS - decreasing Tau_east<Tau_west

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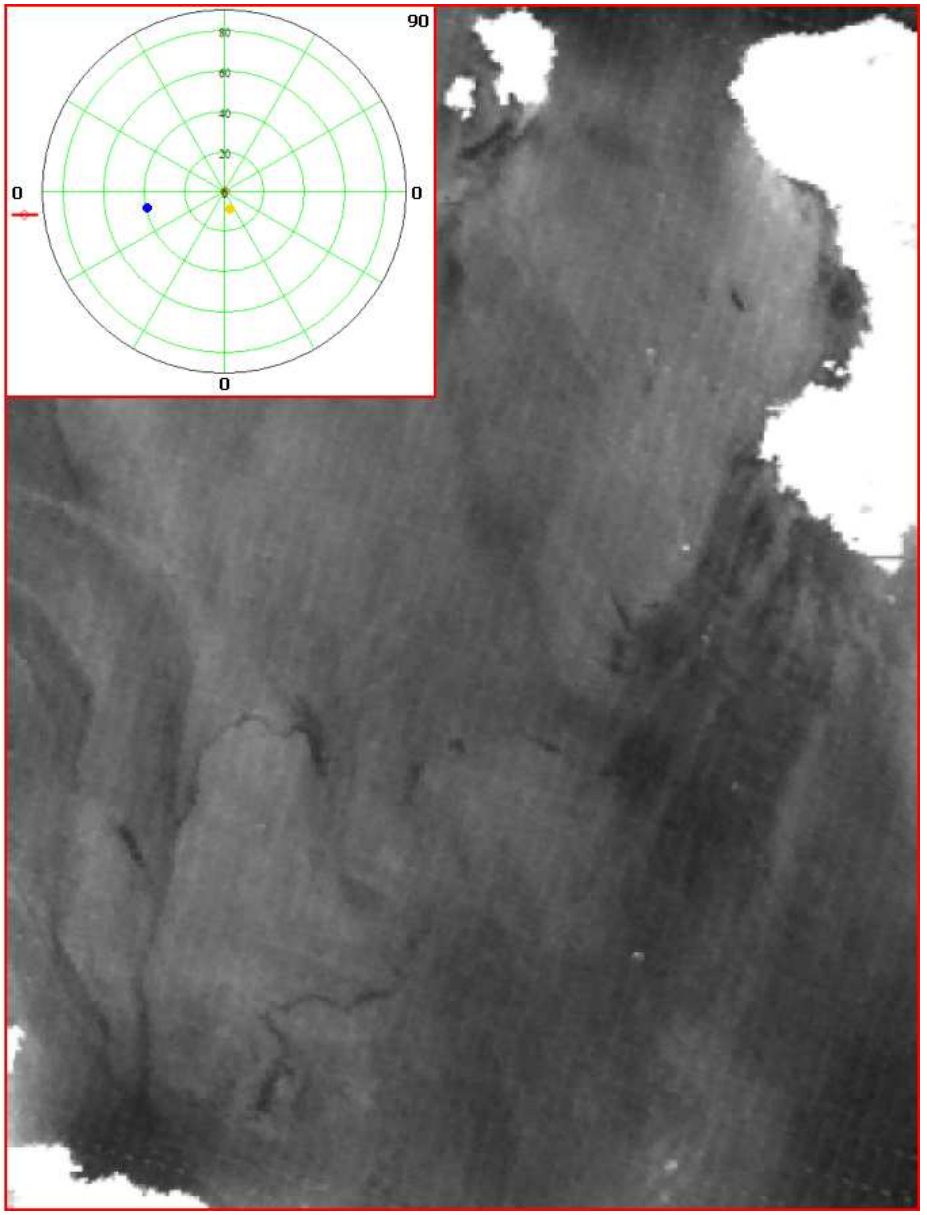
90
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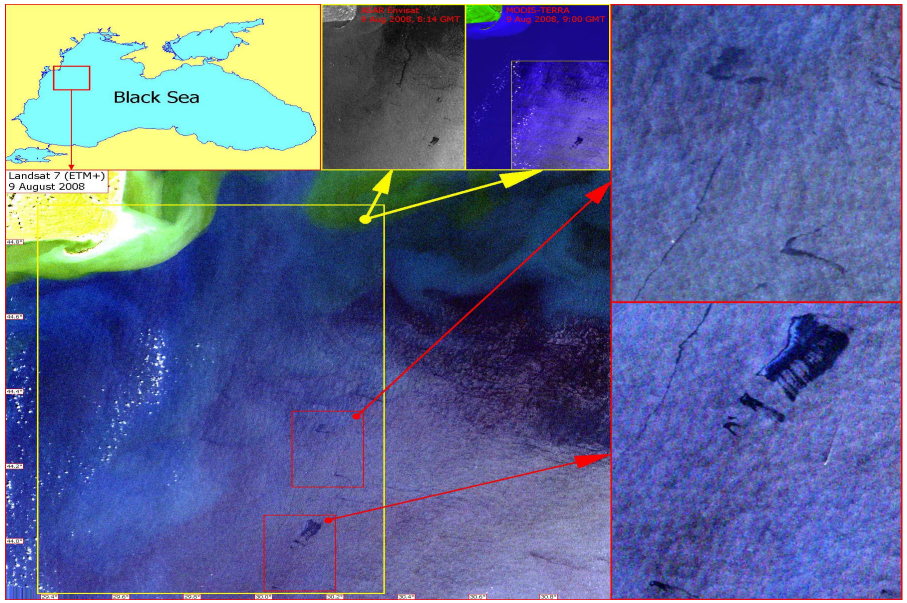
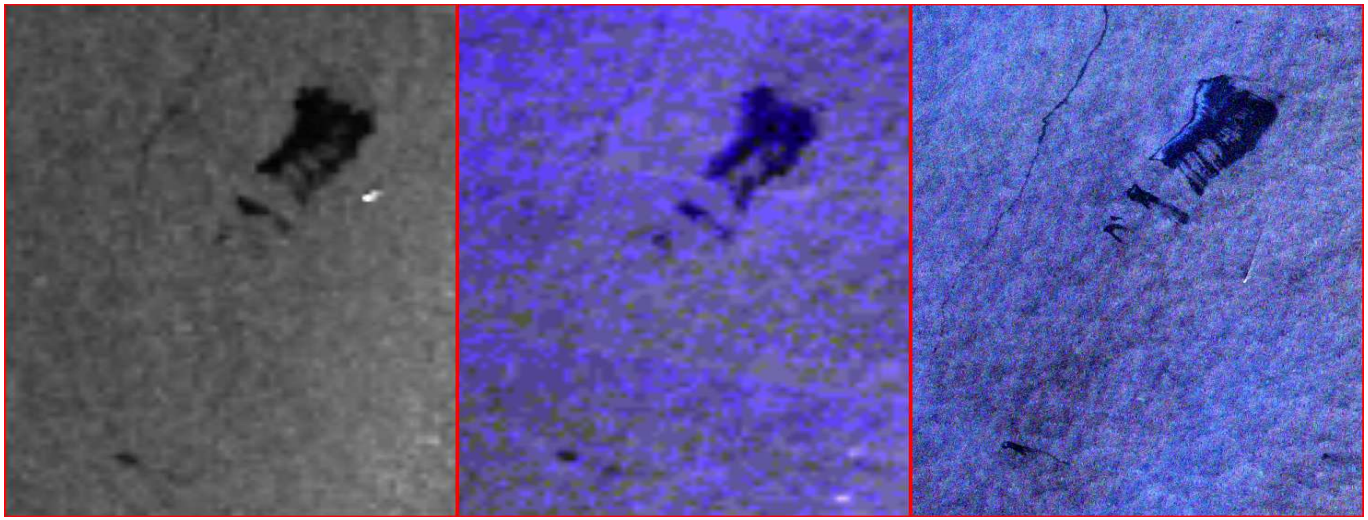
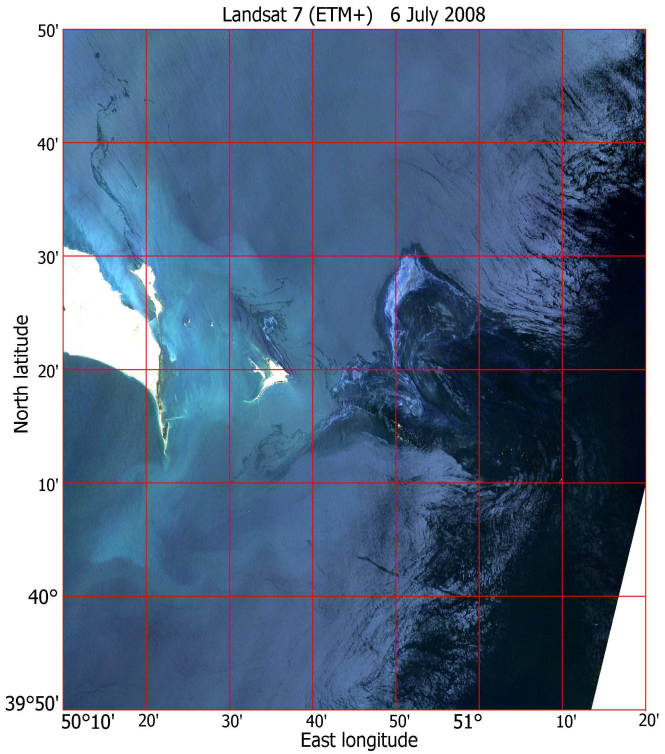
Oil spill appearance in optical data

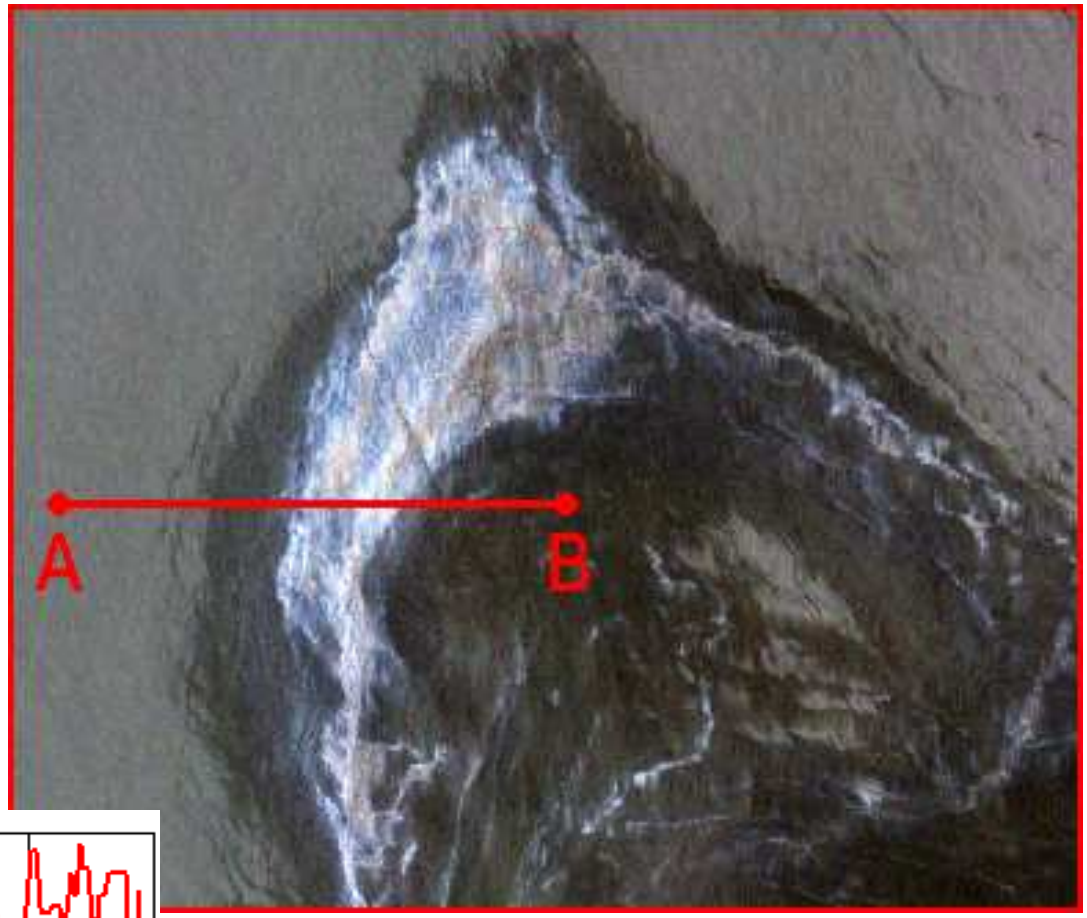


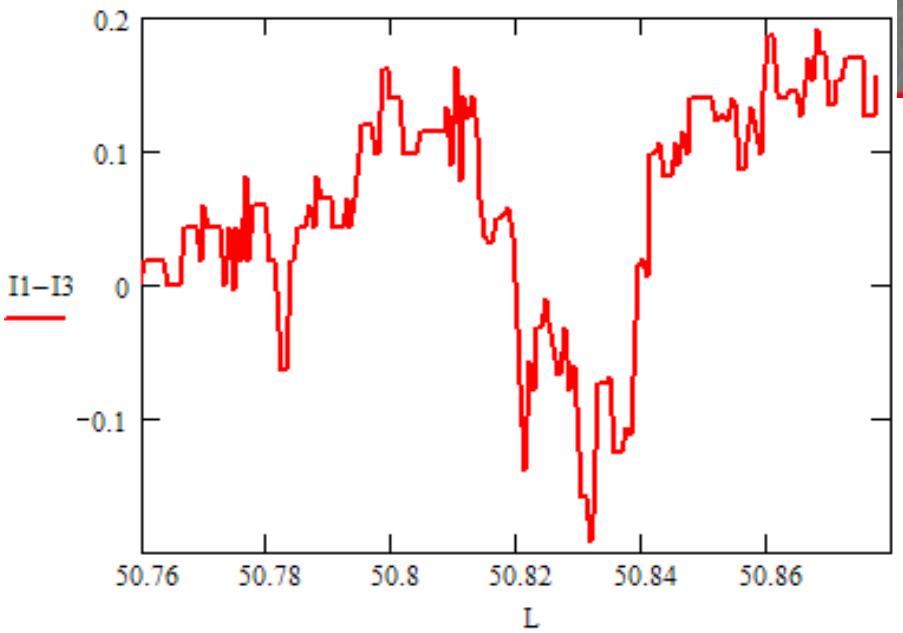
На данных Landsat
видна область толстой пленки
с увеличенным отражением

ASAR MODIS Landsat

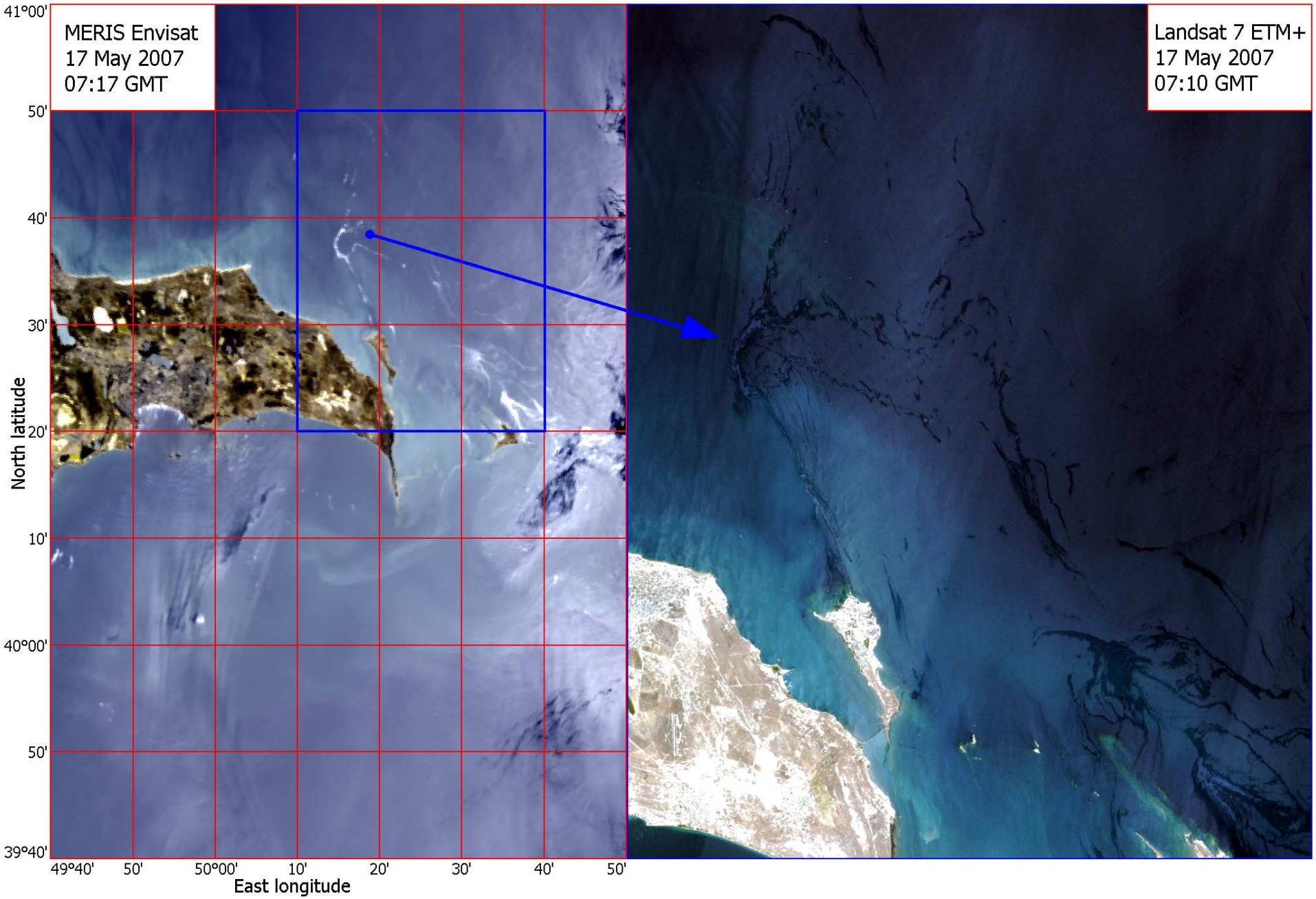


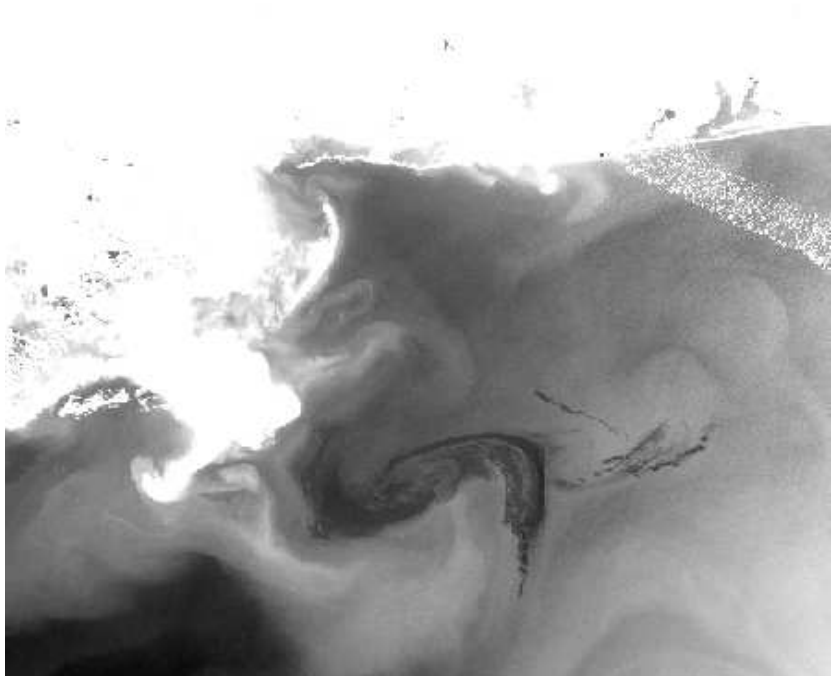






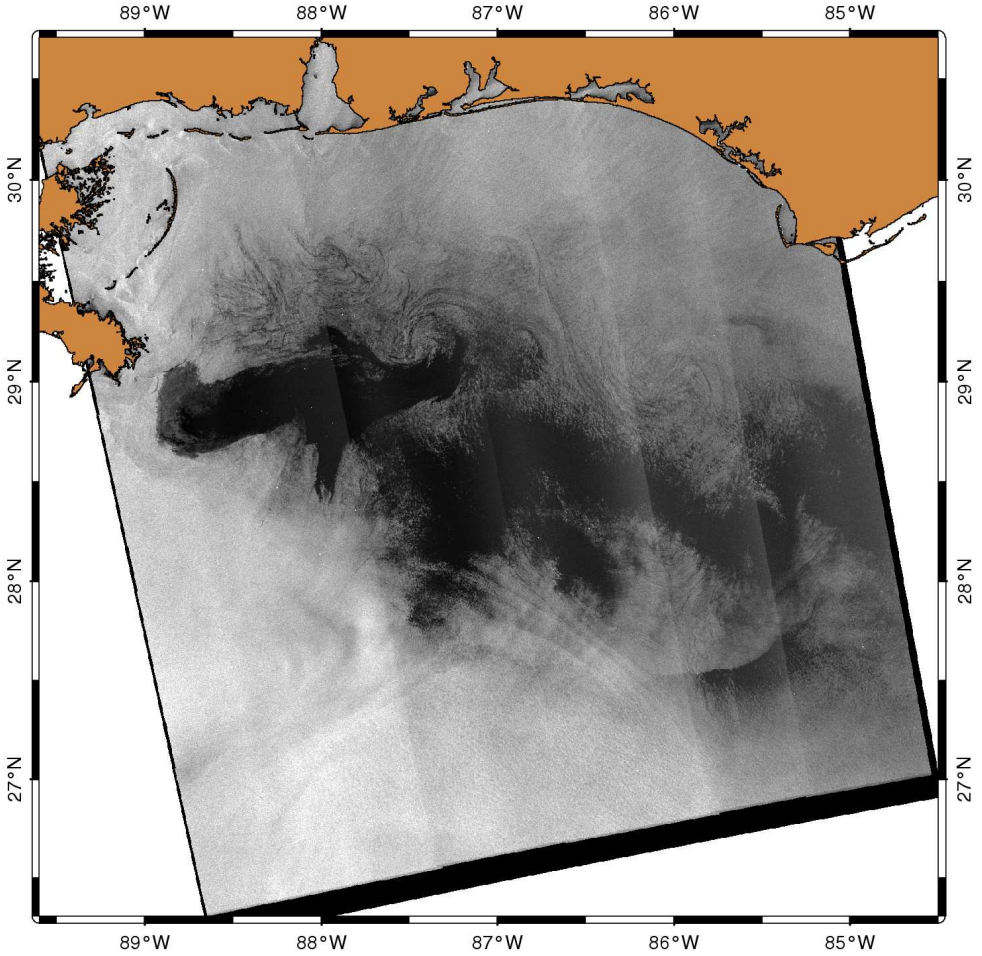
Разность спектральных контрастов
В 1 и 3м каналах сканера
0.45-0.51мкм
0.63-0.69 мкм


MERIS Envisat
17 May 2007
07:17 GMT
Landsat 7 ETM+
17 May 2007
07:10 GMT
41°00'
50'
40'
30'
20'
10'
40°00'
50'
39°40'
North latitude
49°40'
50'
50°00'
10'
20'
30'
40'
50'
East longitude



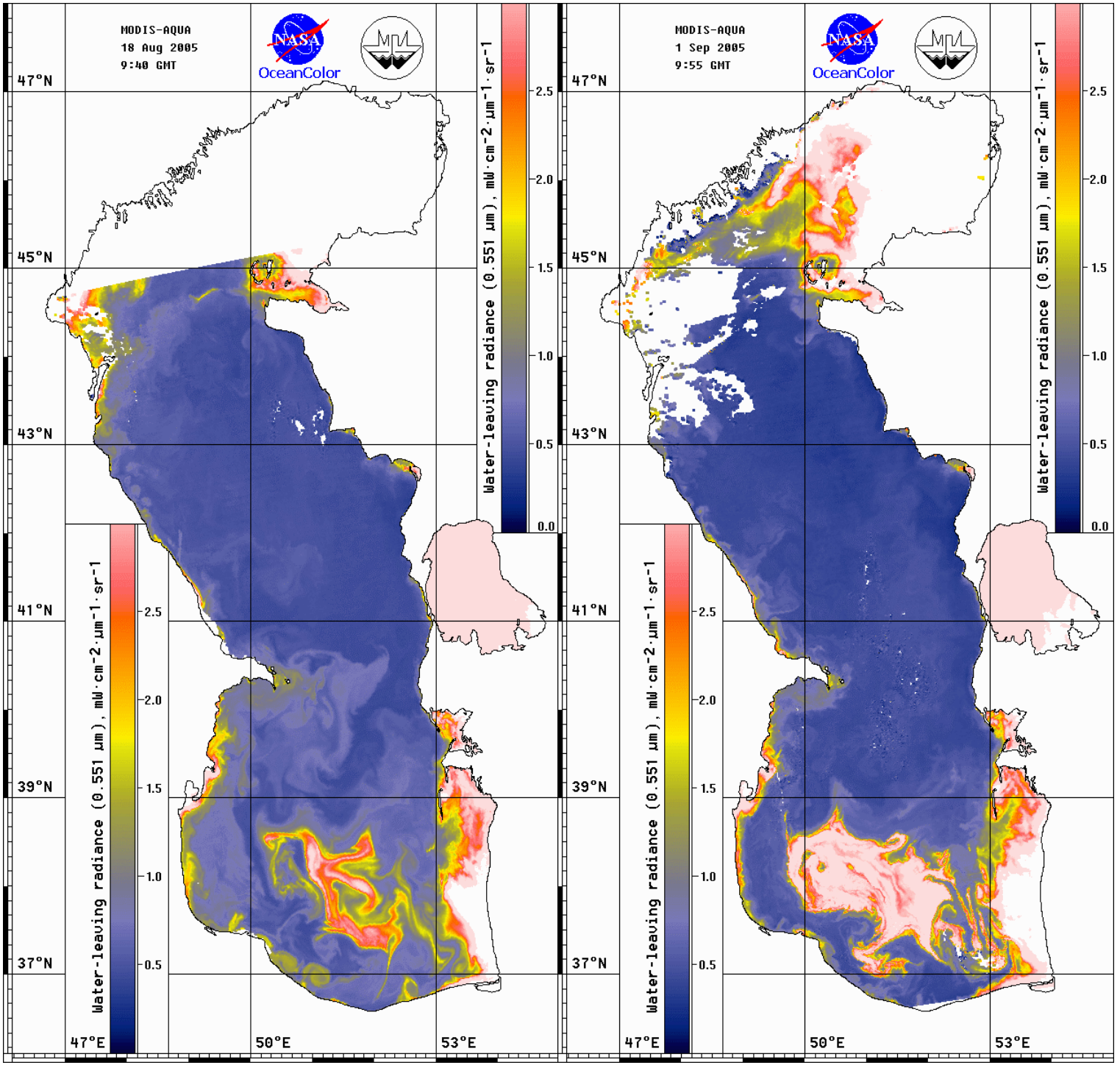
29–April–2010 03:46:25 (UTC)
ENVISAT WSM Product

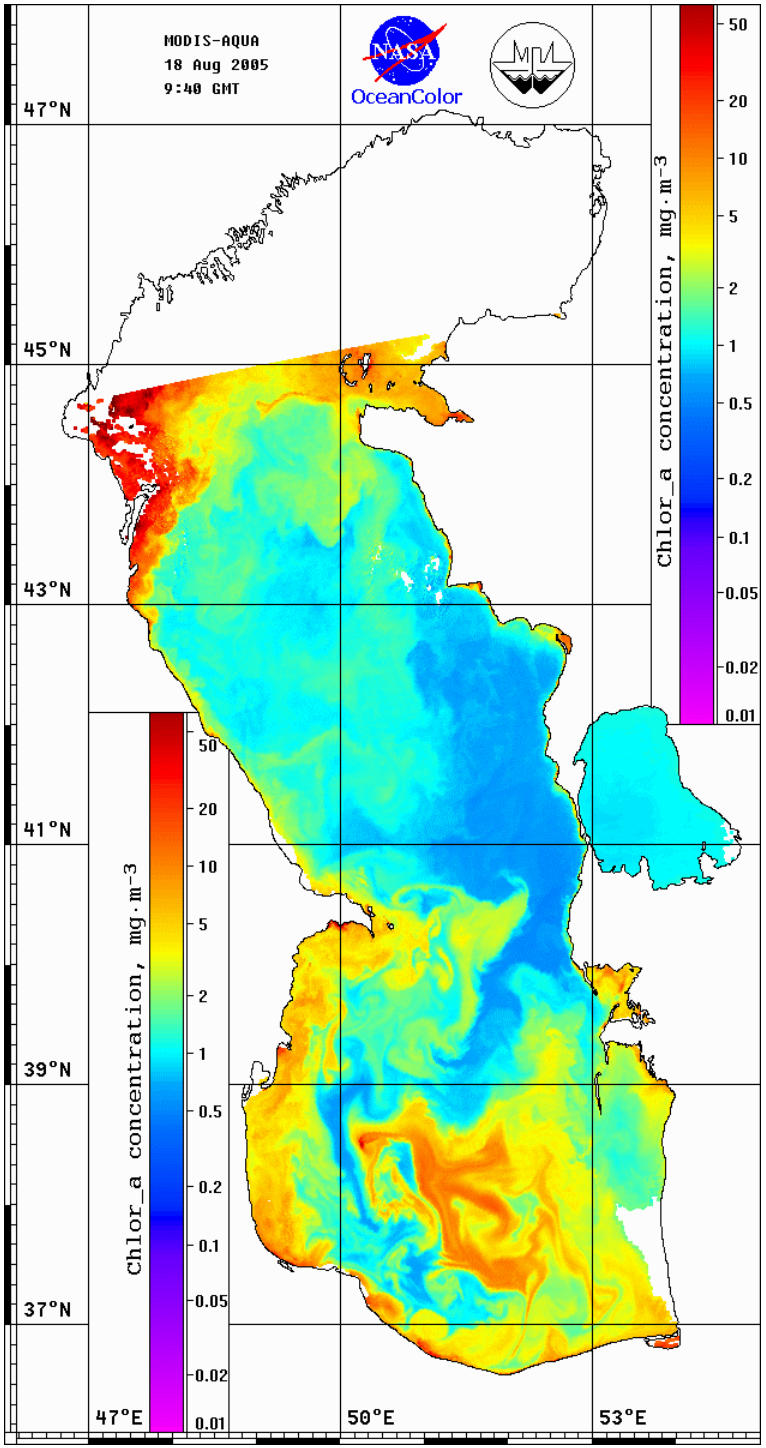
SOPRANO
CLS™ esa

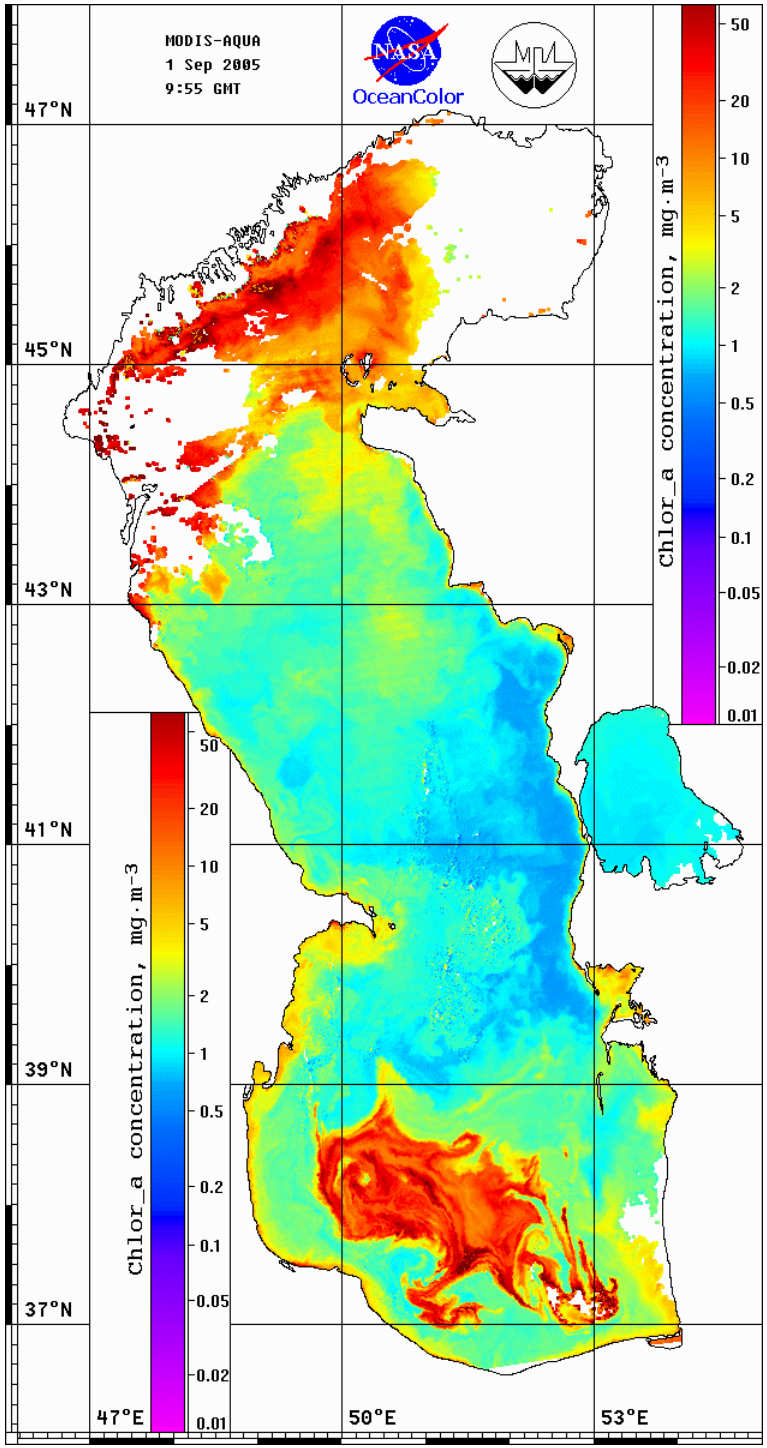


Powered by CLS

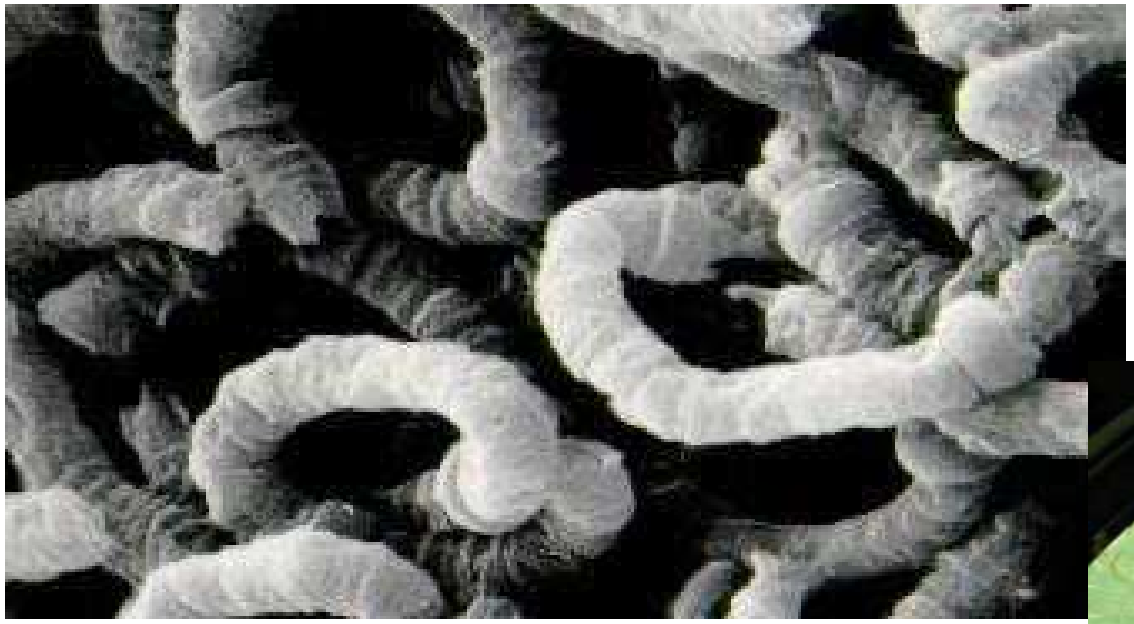
Проявление нефтяного загрязнения
В данных MERIS и ASAR

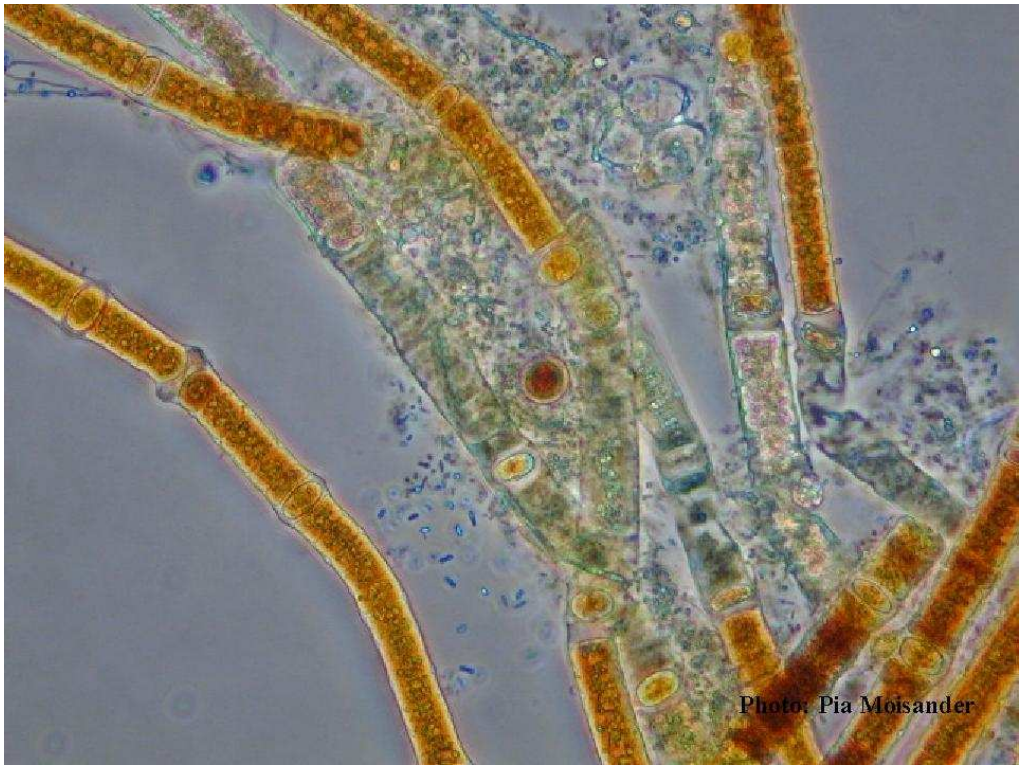

MODIS-AQUA
18 Aug 2005
9:40 GMT
OceanColor
MODIS-AQUA
1 Sep 2005
9:55 GMT
OceanColor
47°N
45°N
43°N
41°N
39°N
37°N
47°E
50°E
53°E
Water-leaving radiance (0.551 µm), mW·cm⁻²·µm⁻¹·sr⁻¹
0.0
0.5
1.0
1.5
2.0
2.5

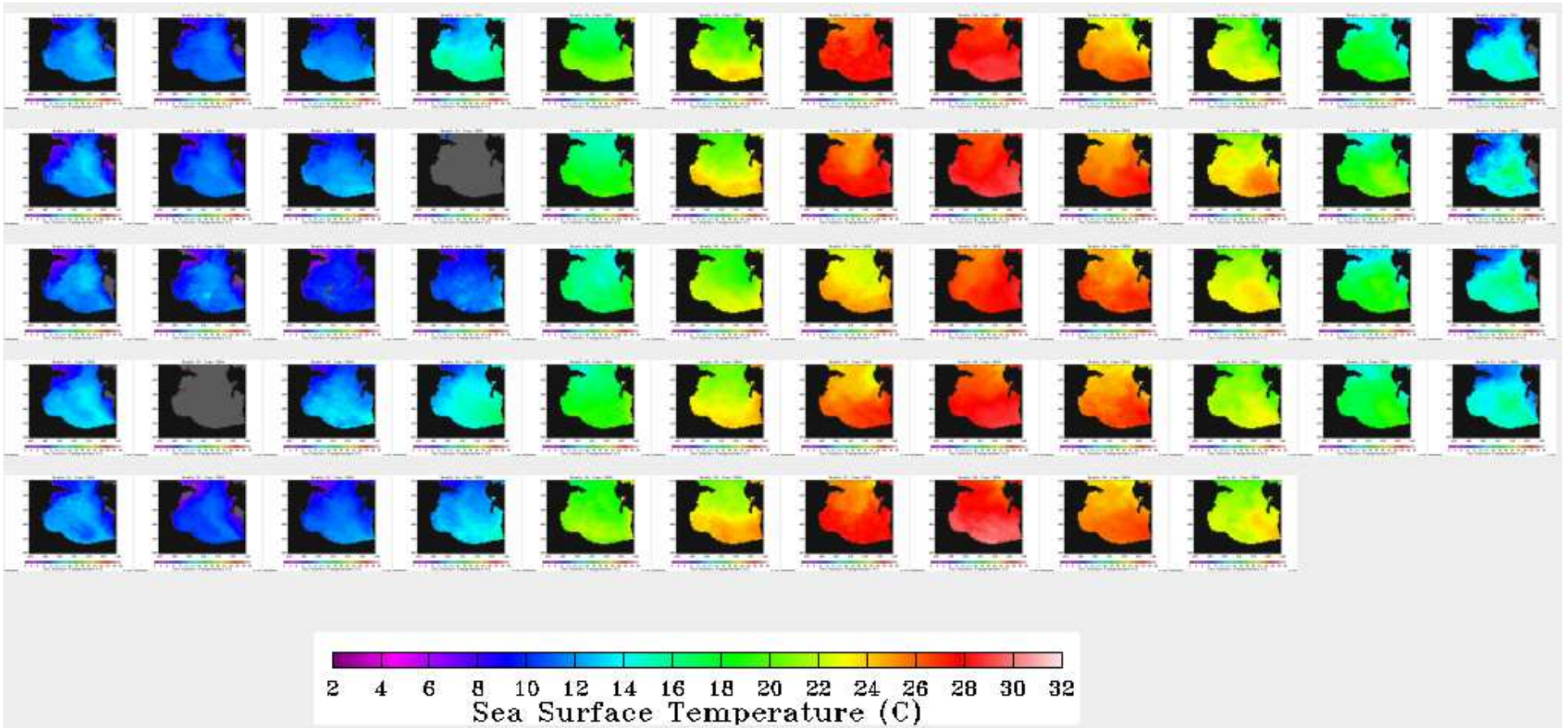

MODIS-AQUA
18 Aug 2005
9:40 GMT
NASA
OceanColor
47°N
45°N
43°N
41°N
39°N
37°N
47°E
50°E
53°E
Chlor_a concentration, mg·m-3
50
20
10
5
2
1
0.5
0.2
0.1
0.05
0.02
0.01


MODIS-AQUA
1 Sep 2005
9:55 GMT
NASA
OceanColor
47°N
45°N
43°N
41°N
39°N
37°N
47°E
50°E
53°E
Chlor_a concentration, mg·m-3
50
20
10
5
2
1
0.5
0.2
0.1
0.05
0.02
0.01

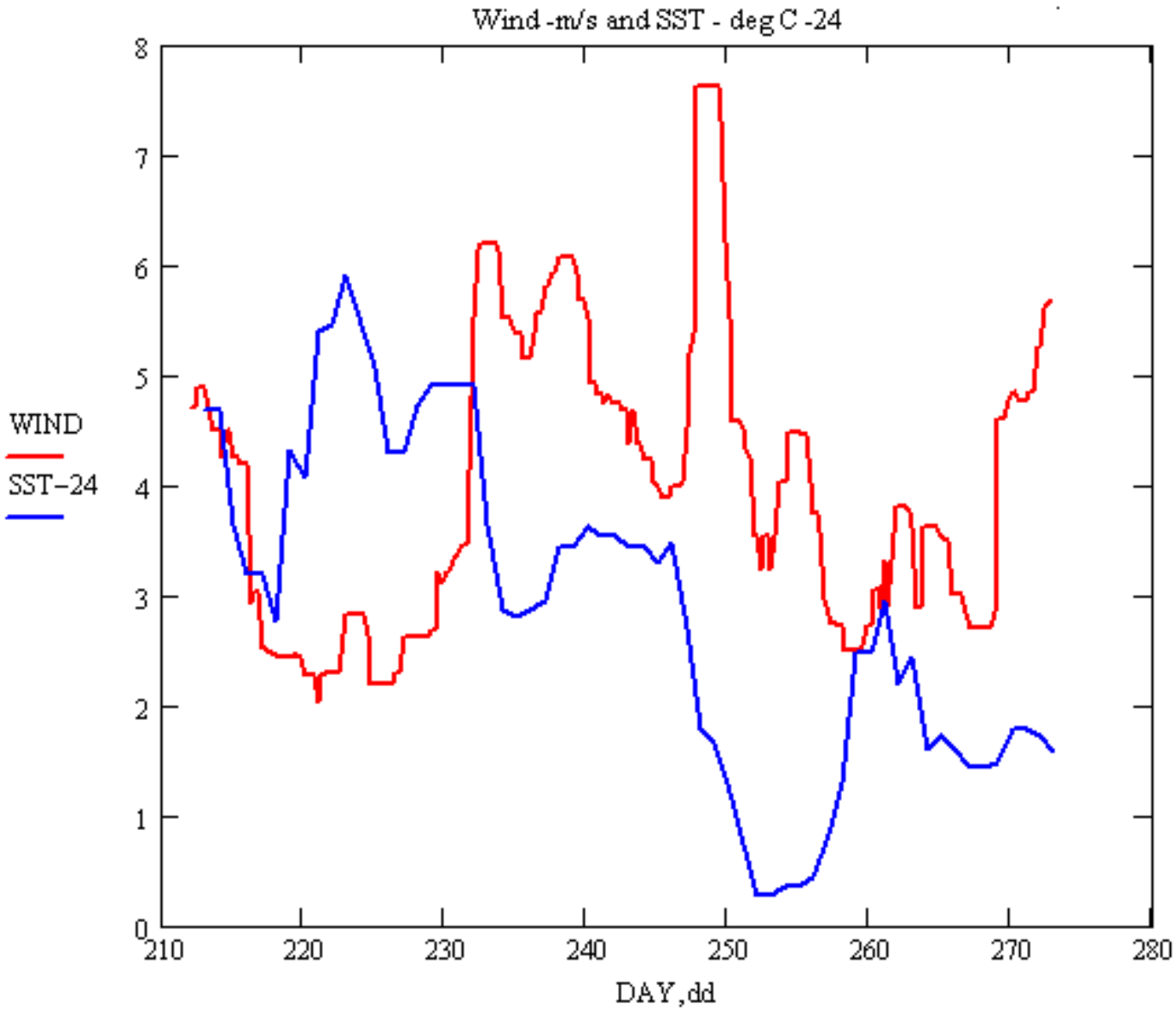
Nodularia spumigena



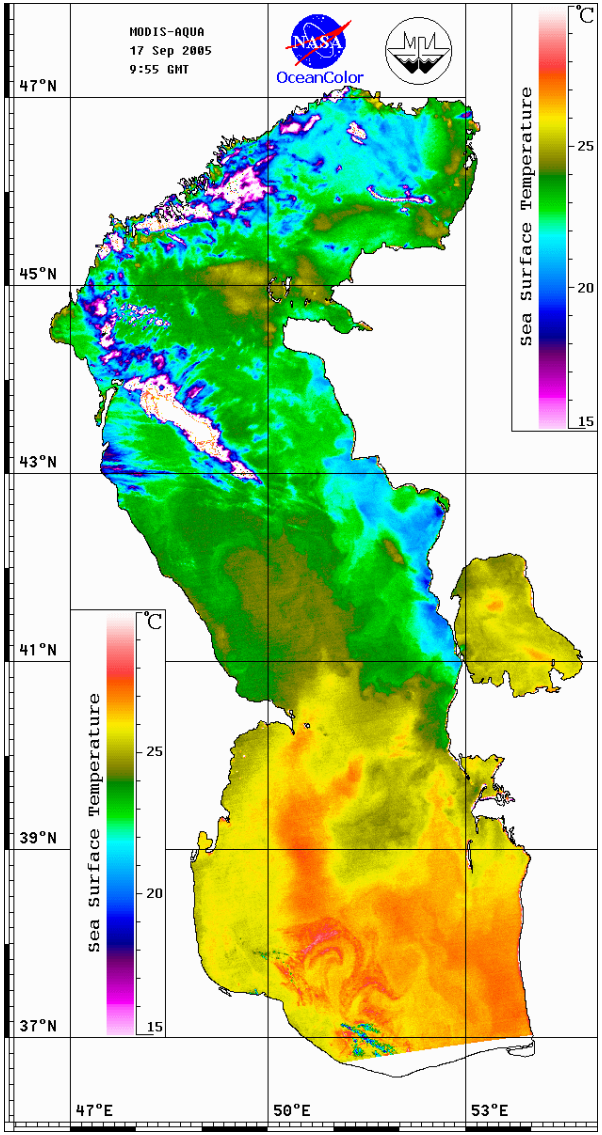


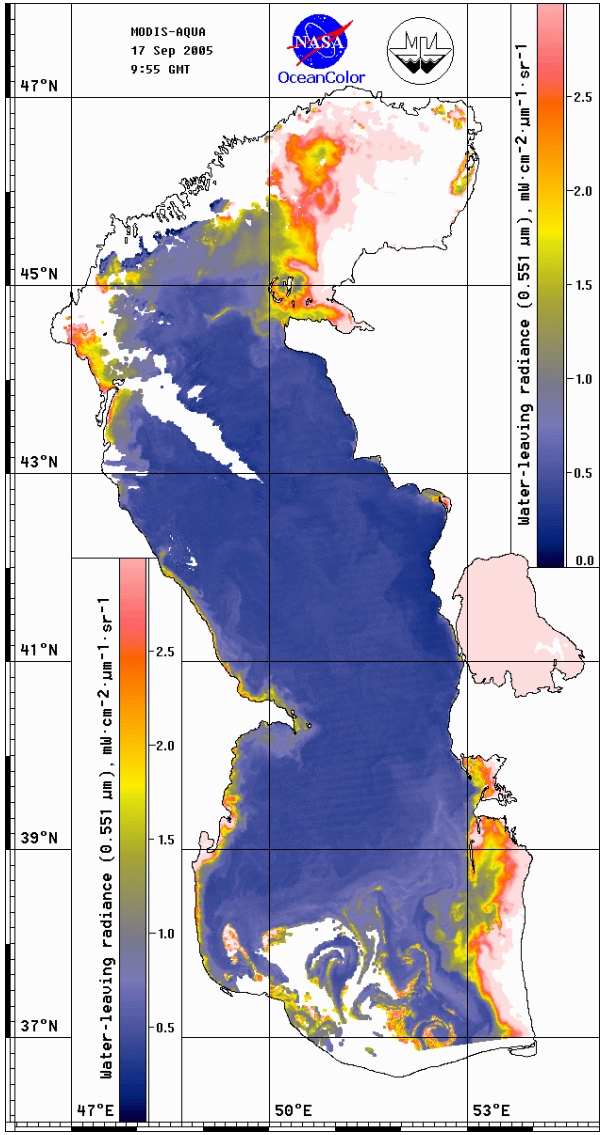


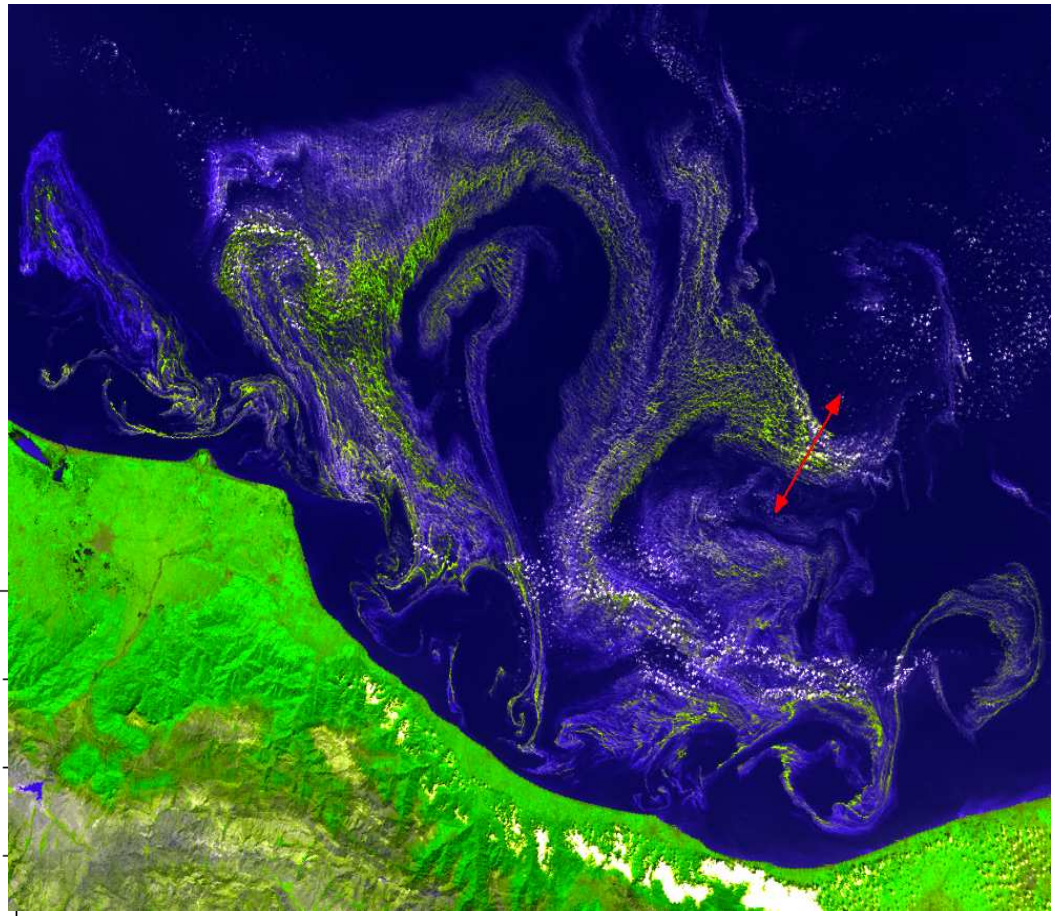
MONTHLY MEAN DAYTIME MODIS SST FROM PODAAC JPL
COLUMNS – MONTHS JANUARY – DECEMBER
ROWS - YEARS 2001-2005

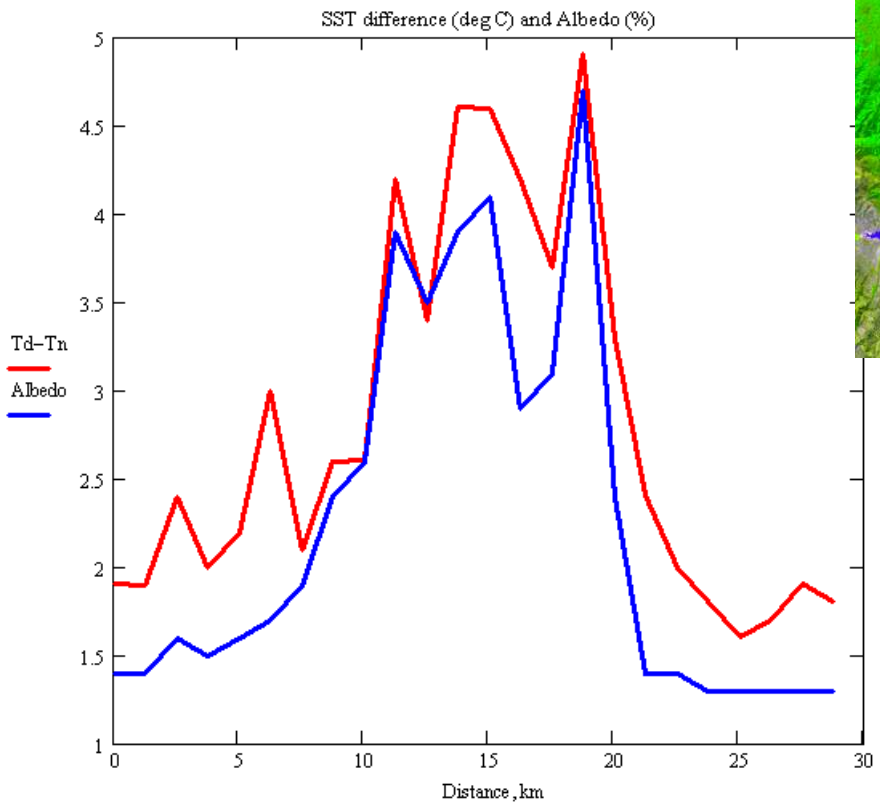


NCEP wind (m/s) and AVHRR SST (deg C – 24) variability for August – September 2005 for the point (51°E, 38°N) versus Julian day of year

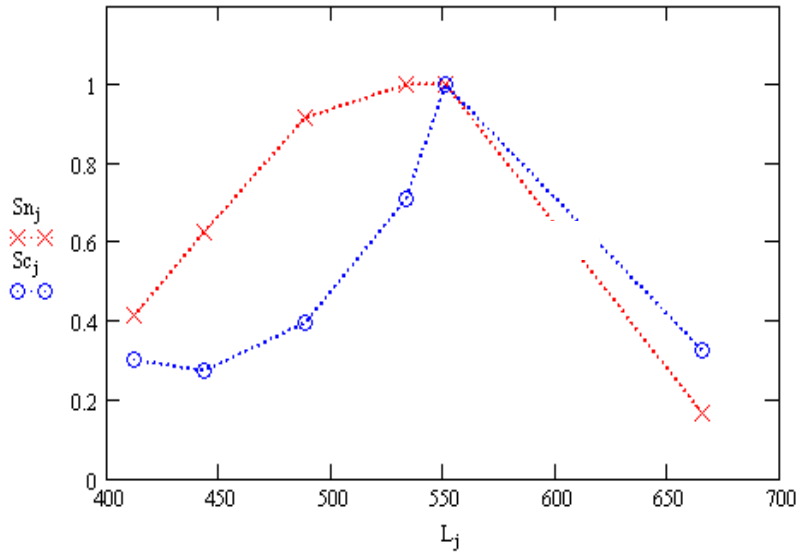

MODIS-AQUA
17 Sep 2005
9:55 GMT
NASA
OceanColor
Sea Surface Temperature
°C
25
20
15
47°N
45°N
43°N
41°N
39°N
37°N
47°E
50°E
53°E

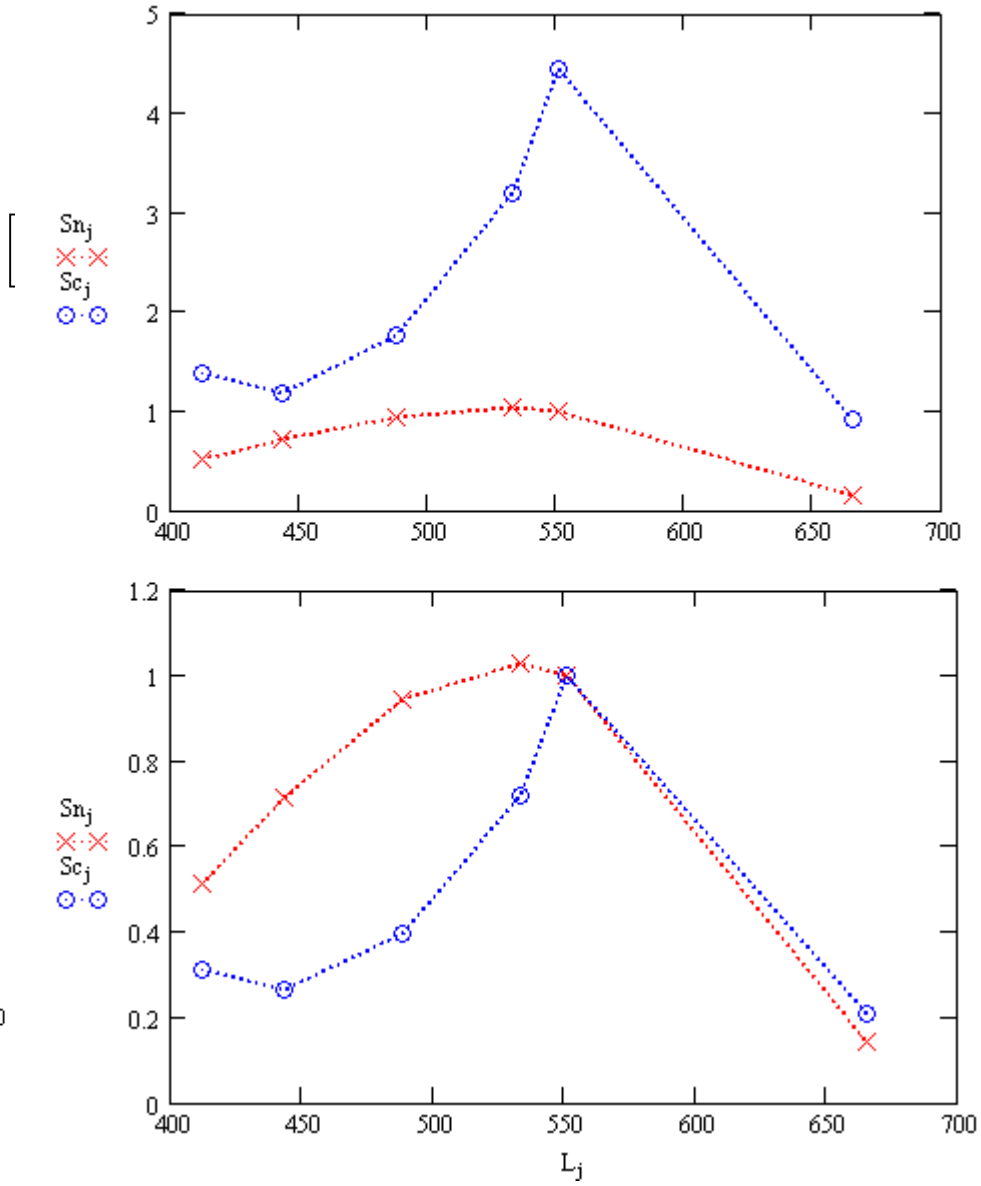

MODIS-AQUA
17 Sep 2005
9:55 GMT
NASA
OceanColor
Water-leaving radiance (0.551 µm), mW·cm⁻²·µm⁻¹·sr⁻¹
2.5
2.0
1.5
1.0
0.5
0.0
47°N
45°N
43°N
41°N
39°N
37°N
47°E
50°E
53°E




SST difference (deg C) and Albedo (%)
Td−Tn
Albedo
5
4.5
4
3.5
3
2.5
2
1.5
1
0
5
10
15
20
25
30
Distance , km

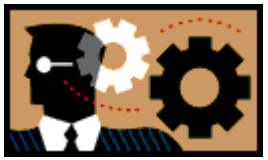
Spectral dependence of the WLR551 for bloom area Sc and surrounding waters Sn (a) normalized on WLR 551 nm spectrums (b) for September 01, 2005, South Caspian Sea; normalized WLR spectrums obtained in the Baltic Sea, July 4, 2005 (c)





L (wavelenght), nm

SO,



WE HAVE :

- STRONG TEAM
- OPERATIVE MONITORING SYSTEM FOR THE BLACK SEA
- METHODS, ALGORITHMS, MODELS and SOFTWARE FOR DATA PROCESSING and ANALYSIS
- EXPERIENCE IN INTERNATIONAL COOPERATION (FP5, FP6, FP7)

AND

WE'LL BE GLAD TO COLLABORATE WITH YOU

SSTANICHNY@MAIL.RU


CH 9064 AA

THANK YOU

sstanichny@mail.ru