



DIAS Project
Web Demonstrator Requirements

Summary

INTRODUCTION	3
Scenario	3
Web Demo	3
WEB DEMONSTRATOR: THE FUNCTIONALITIES	4
Sections' details	4
WEB DEMONSTRATOR: THE LAYOUT	8
DEAD LINES	31

Introduction

Scenario

Within the European e-Content plan, the goal of DIAS project is to create a network that makes available and usable to the users a batch of information and added value services regarding the study of the ionosphere.

The network will make available the multi-channel re-edited data, via Internet; the data will be provided by all following operating European Research Institutes' ionosondes:

- Istituto Nazionale di Geofisica e Vulcanologia (INGV)
- National Observatory of Athens (NOA)
- Rutherford Appleton Laboratory (RAL)
- The Leibniz-Institute of Atmospheric Physics (IAP)
- Swedish Institute of Space Physics (IRF)
- Space Research Centre, Polish Academy of Sciences (SRC)
- Ebro Observatory (Ebre)
- Institute of Atmospheric Physics, Czech Republic (UFA)

A central server will work as a collector and data processor. All data will be available to the users as diagrams, maps (nowcast, short term and long term forecast) and data.

Web Demo

In this scenario, the Web Demonstrator (Work Package 6) has to be developed as a "static version¹" of what the final DIAS Web site will be.

Since it has to be delivered in the month of November 2005 also in a CD version, the Web Demonstrator will share its main characteristics with the Server Prototype (Work Package 4), that prefigure in this moment the final DIAS Server.

The purpose of this document is to define the features to be developed in the Web Demo.

Some details have been discussed during the 4th technical meeting in Kiruna (September 12-14). For this reason, this document is given to all the members of the consortium interested in as overview.

¹ "Static version" means that all data retrieved by users are referred to a fixed period (a few days from the 1st to 15th of September).

In the selected period:

- All ionospheric station have to produce their data to the DIAS server;
- All programs to generate every kind of DIAS service (foF2/M(3000)F2/MUF/electron-density maps...nowcasts, long and short term forecasts...) have to be working;
- The DIAS server has to store all this data in order to put them in the Web Demo.

Web Demonstrator: the functionalities

Based on what has been established during the DIAS technical meetings of Athens Rome and Kiruna, some functionalities that the Presentation layer (and then the Web Demonstrator) will have to support have been defined.

Generally, it has been prefigured the following sections:

1. An *Introduction* page;
2. An *Information* section;
3. A section containing the *direct information* of the measure points;
4. An *Elaborated information* section, containing:
 - plots of some ionospheric parameters;
 - isolines foF2 maps and M(3000)F2 maps ;
 - MUF maps ;
 - electron density maps calculated in various heights;
5. A *glossary* section;
6. An *alerts* section.

In every sections, the user will have the possibility to point diagrams, maps, data report... in a rapid and intuitive way and by using an opportune degree of interactivity.

Sections' details

Introduction page

It will be the first page shown to the user when the Web Demo is opened (in both CD version and Online version).

The text will explain to the user exactly what the Web Demo is, and it will give information about the selected fixed time.

The proposed sentence is:

“You are entering into a SIMULATION of the DIAS Server.
In this CD you will live the DIAS Server at time HH.MM of the DD September 2005.
The above time and day have been chosen because...”

Informative Section:

It collects a series of useful information to the project DIAS's presentation (the same existing today in DIAS Prototype), as well as the understanding of the contents of the following sections.

If the Web Demonstrator will be shown inside of the DIAS website, which has already an informative section, it will be good to verify if the presence of a such section will be useful and, in the positive case, if it will not be an overlap of information.

The Informative Section will be rather useful in the CD version!!.

Direct information section:

It will collect the coming data from the ionosondes of European institutes which takes part to the project.

It will be possible the formulation of the following research parameters from an appropriate menu:

- requested ionospheric station (among the institutes which will have provided their data in time). The selection of the ionospheric station will happen through a combo box;
- type of survey (previous historical done/file survey).

The outputs will be:

- one or more ionograms (diagram Frequency - Height);
- the connected tables of detected values.

It will be given the possibility of viewing on the same page the ionograms' preview of all the ionospheric stations at the same time; the ionograms will be aligned to the requested data/hour (that the user can insert). By clicking on the thumbnail of a single ionogram, it will be enlarged to all the page.

It will be given the possibility of viewing in the same page the preview of 8 consecutive ionograms, which have been detected from the same station, by starting from a requested data/hour (that the user can insert). By clicking on the thumbnail of a single ionogram , it will be enlarged to all the page.

If an image is not available, it will be replaced by an uniform background picture where it is written "not available".

Elaborated information section:

It will contain a series of information (in terms of maps, diagrams and data report) made by DIAS server, based on the information which are given by the ionosondes of the various points of measure.

It will be possible to select from the menu the type of elaborated and searched information (plot, map foF2...) and the characteristics of this elaboration (ionospheric station, last produced elaboration, historical files, production of a map according to a determinated locality...).

The outputs will be:

- **plots of foF2, foF2_{SIRM}, f_{min}, M(3000)F2, M(3000)F2_{SIRM} and R_{eff}.**

The research parameters of these diagrams will be:

- ionospheric station (among the ones which will have provided their data in time);

- Type of plot for each station:
 - foF2 observed values
 - foF2 long-term predicted values (foF2_{SIRM})
 - foF2 short-term predicted values
 - f_{min} observed values
 - M(3000)F2 observed values
 - M(3000)F2 long-term predicted values [M(3000)F2_{SIRM}]
 - R_{eff}, effective Sun Spot Number (SSN) (over Europe)

It will be given the possibility of viewing in the same page the preview of the current plot of all the ionospheric stations. By clicking on the thumbnail of a single plot, this will be enlarged to all the page.

At the same time, It will be given the possibility of viewing in the same page the preview of the last consecutive 8 diagrams, produced by the same station (one per day). By clicking on the thumbnail of a diagram, this will be enlarged to all the page.

If an image is not available, it will be replaced with a uniform background picture where it is written "not available".

- **Isolines foF2 maps, M(3000)F2 maps and MUF maps**, which are produced to cover the European region.

The research's parameters for these diagrams will be:

- type of own ionospheric survey among the following three ways:
 - ionosphere "quiet"/long term forecast: each month 24 maps, that is one per every hour of the day, valid every day of the month, which are calculated on the value of medium monthly R12. The 24 maps are shown in the same page, and the requested map will be enlarged to all the page through the selection;
 - nowcasting: maps calculated on the value of effective R12 (one single map is shown in the page);
 - short term forecasting: maps regarding the next 24 hours (only for foF2 maps).

Regarding MUF maps (nowcasting and long term prediction), since they are drawn according to the transmission point, it will need to give to the user the possibility to insert an input in terms of:

- Selection of a series of defined location (in Web Demo only Athens, Madrid and Stockholm);
- Selection of the type of map between nowcast and long term forecast.

- **Electron density maps** (isolines maps and graph height/density) calculated at various heights (Up to 400 km, every 50 km, starting at 100 Km), which are produced to cover the Euorepean region.

The research parameters for these diagrams will be (only nowcasting):

- Ionospheric station over which graph of height/density has to be drawn;
- Height which it needs to draw the isoline map at (selection by clicking on a sort of sliding bar).

If an image is not available, it will be replaced with a uniform background picture where it is written "not available".

Glossary section:

It will contain a glossary about the terms used in the Web Demonstrator (and in the final DIAS Web), the same as in the DIAS Prototype.

Alerts section:

It will contain the following alerts indices:

$$AI(\text{foF2})^{\text{real time}} = 100 * (\text{foF2}^{\text{autoscaled}} - \text{foF2}^{\text{med}}) / \text{foF2}^{\text{med}}$$

and

$$AI(\text{foF2})^{\text{forecast}} = 100 * (\text{foF2}^{\text{forecast}} - \text{foF2}^{\text{med}}) / \text{foF2}^{\text{med}}$$

visualized in a proper way for each single station.

Web Demonstrator: the layout

The used language to build the website is the English one.

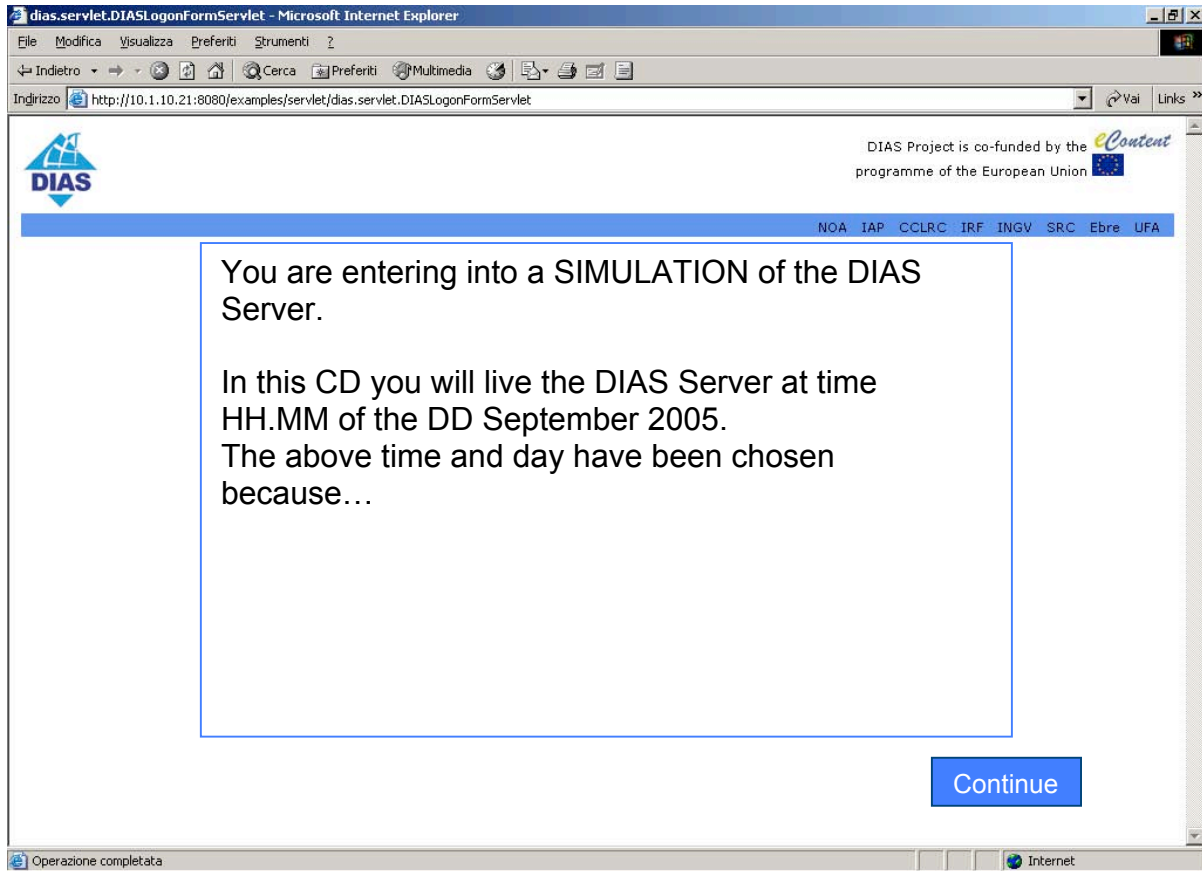
The look and fill will be as the DIAS Prototype's one.

Here it follows the graphic description of Web Demo interfaces.

It's important to understand that, since the Web Demo simulate the DIAS Server in a fixed period (the system is frozen at a selected date/time, as described above), all nowcasts are referred to the selected date/time, and the same is for all historical data, short and long term forecasts.

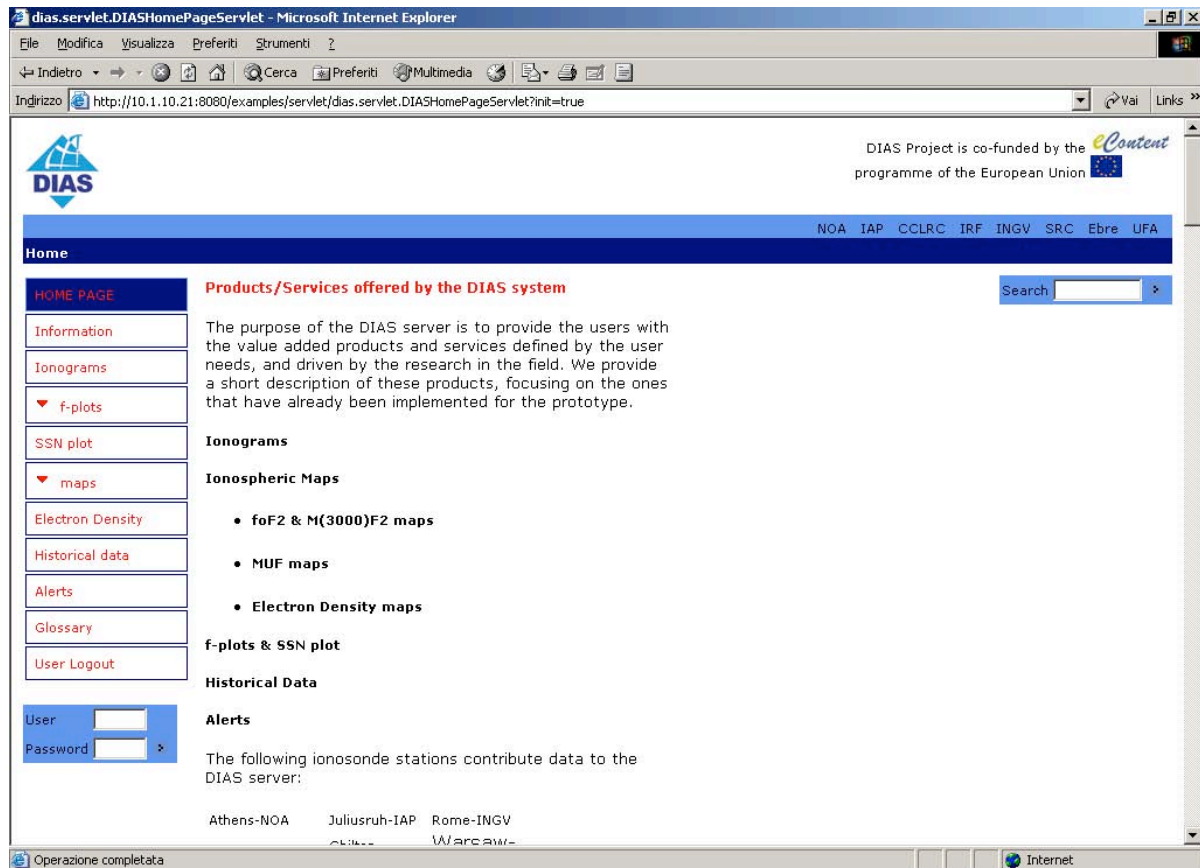
The following pictures are just an example, and the dates in combo box could not match with the period selected by DIAS members for the Web Demo.

Intro Page



- The page appear automatically after inserting the Web Demo CD into the PC;
- The text in the page explain to the user what the Web Demo is;
- By clicking the “Continue” button, it’s possible to enter in the Web Demo.

Home Page



- The Home Page will describe the DIAS Server.
- The Menu Bar is always on the left side
- On the right side, in the upper blue bar, there are the links to the consortium members web-site (always present)
- The Search engine is not working
- The User and Password form is not working in Web Demo.

Information Page

DIAS Project is co-funded by the programme of the European Union

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Home > Information

HOME PAGE

Information

Ionograms

f-plots

SSN plot

maps

Electron Density

Historical data

Alerts

Glossary

User Logout

TOC

WHY?

AIM

DIAS CONSORTIUM PARTNERS

DATA PROVIDERS

DIAS DATA, PRODUCTS AND SERVICES

DIAS POTENTIAL USERS

DIAS VALUE

DIAS MAJOR STRONG POINTS

WHY?

Systematic real-time measurements of the upper atmosphere in Europe are obtained by five digital ionospheric stations (digisondes), suitable for research and commercial use. These digisondes -all operated by DIAS partners- have the capability of automatically scaling and transmitting in real-time all-important parameters characterising the state of the upper atmosphere and the propagation of radio waves in the ionosphere. At the moment these digisondes operate independently, and knowledge on the state of the upper atmosphere is generated for a limited area around each station only. This independent operation prevents from transforming this information into usable data, products and services valid on all European region. Considering the increasing demand for upper-atmosphere nowcast and forecast services by various commercial users, the need to develop a network for real-time ionospheric monitoring is pressing, especially since similar systems already exist in the US and Australia.

[TOP](#)

AIM

Considering the needs for information on the upper-atmosphere in several domains, and the currently unsatisfactory level of availability of high-quality added-value ionospheric data in Europe, DIAS project will establish a distributed information server capable of supporting the acquisition, elaboration, evaluation, dissemination and archiving of the upper atmosphere information. The goal of DIAS is to develop a pan-European digital data collection on the state of the upper atmosphere, based on the existing different historical data collections and on the real-time information provided by five operating European digital ionospheric stations (digisondes), belonging to Public Institutes. Such a

User:

Password:

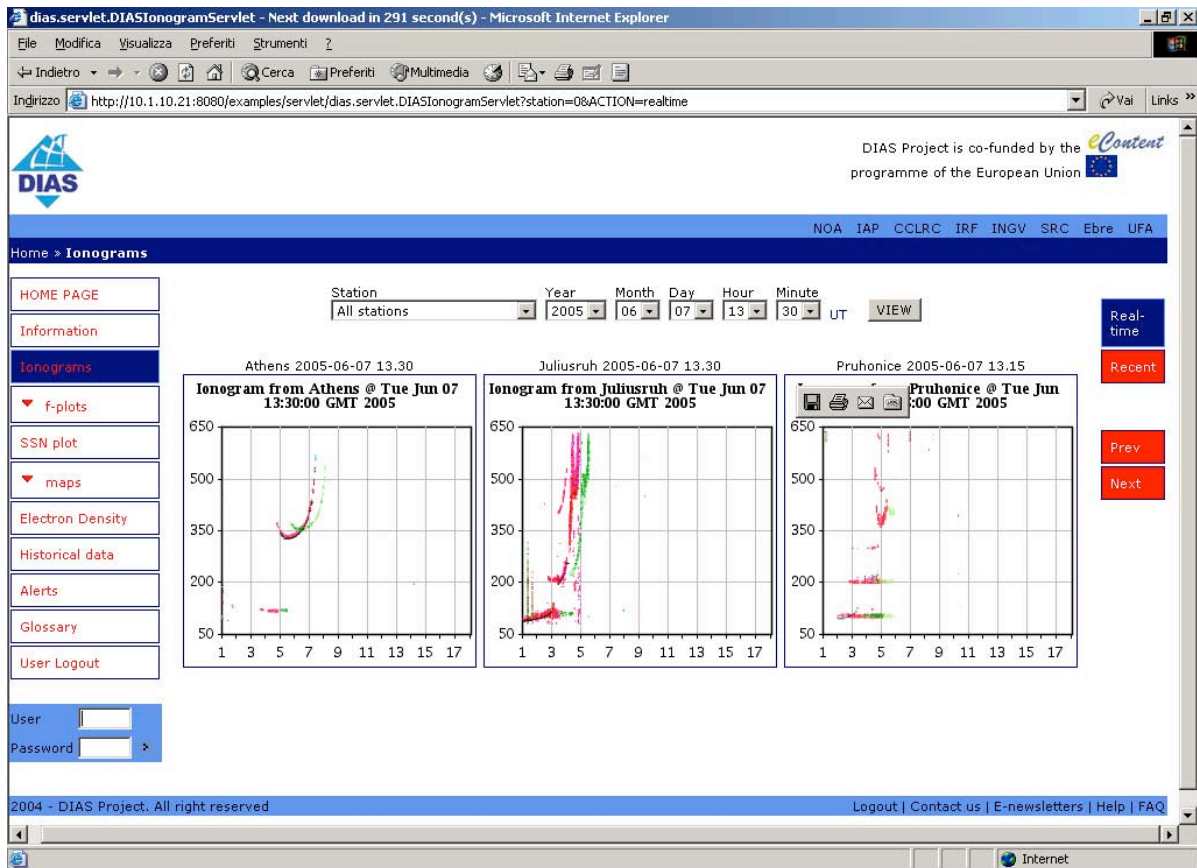
- The text provides to the users some information about DIAS System (the same information already existing in DIAS Prototype)

Ionograms Main Page

The screenshot displays the DIAS Ionogram Chooser Station Servlet web application. The browser window shows the URL `http://10.1.10.21:8080/examples/servlet/dias.servlet.DIASIonogramChooserStationServlet`. The page layout includes a navigation menu on the left, a central map of Europe with ionogram station locations marked by red vertical bars, and a list of station buttons on the right. The buttons include 'All stations', 'Athens Digisonde (NOA)', 'Juliusruh Digisonde (IAP)', and 'Pruhonice Digisonde (UFA)'. The footer contains the text '2004 - DIAS Project. All right reserved' and 'Logout | Contact us | E-newsletters | Help | FAQ'.

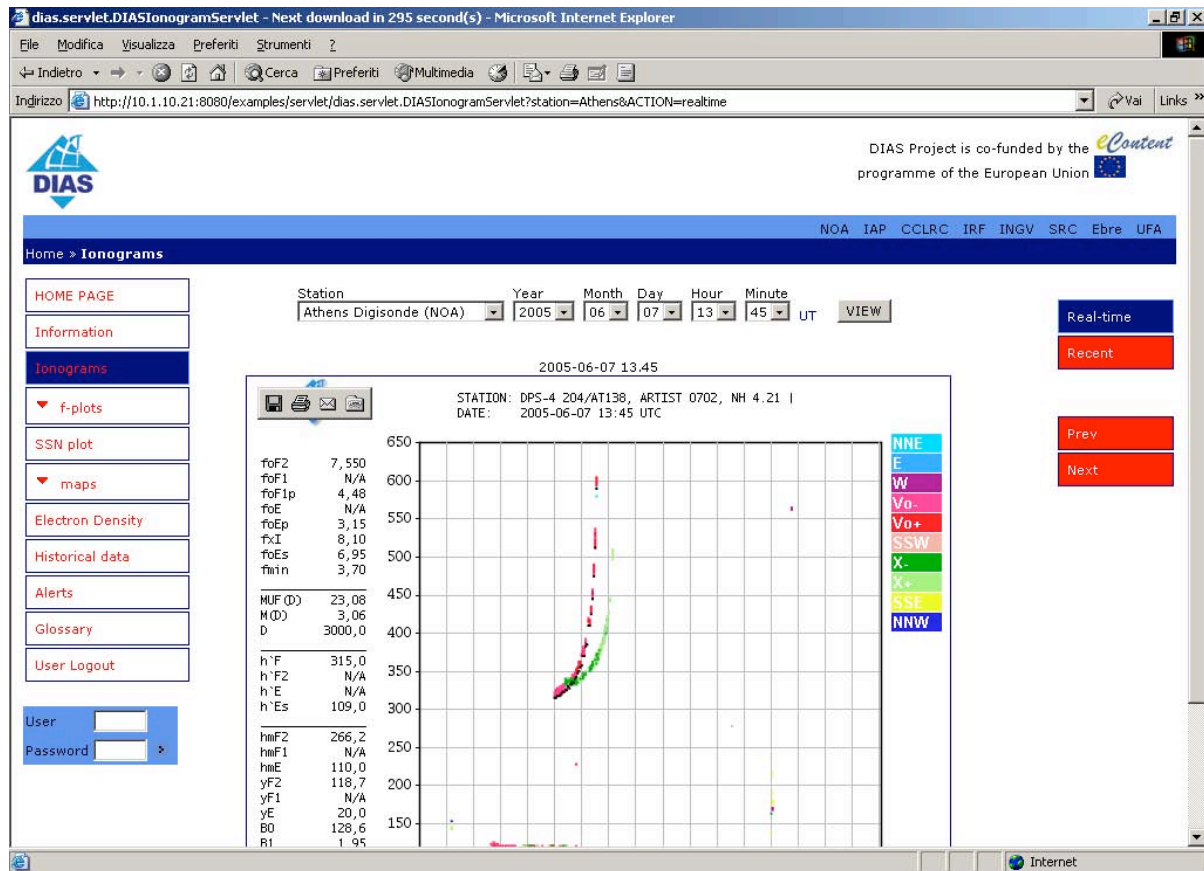
- By clicking on *All Stations* button (on the right side), it is possible to display the current ionograms (thumbnails) produced by all DIAS stations (see All Stations ionogram Page);
- By clicking on one of the other buttons below the *All Stations* one, it is possible to view the ionogram provided by a single DIAS station (see Single Station ionogram Page).

All Stations ionograms Page



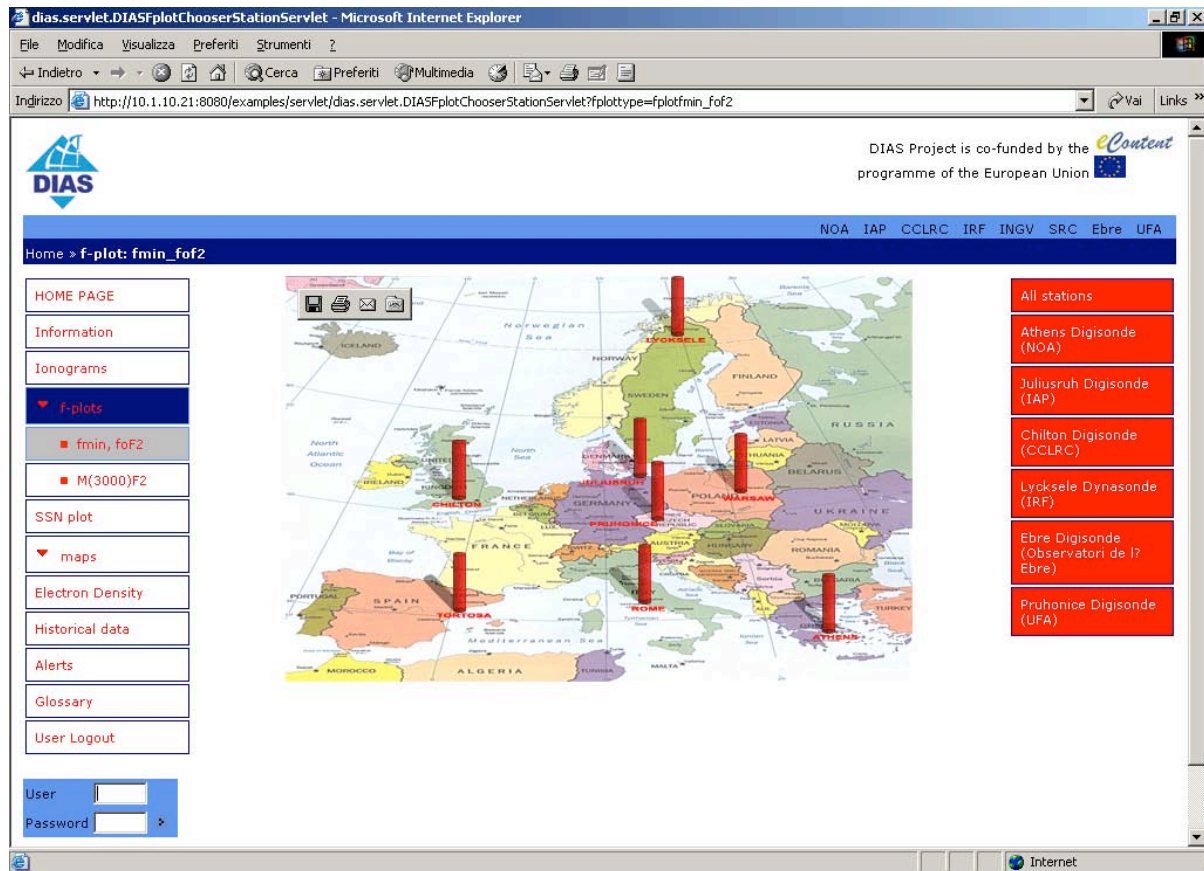
- By clicking on a thumbnail it's possible to zoom it in another window;
- By selecting the values *Station*, *Year*, *Month*, *Day*, *Hour* and *Minute* in the combo-boxes, it's possible to change ionogram's station and/or date (it will be possible to retrieve only ionograms from 1st September 2005 to the "simulated" real time);
- By clicking on buttons on the right side, it's possible to:
 - navigate into *Previous* and *Next* ionograms in multi-frame form (showing all-stations ionograms);
 - show the *Real-Time* ionograms in multi-frame form (showing all-stations ionograms).

Single Station ionogram Page



- By selecting the values *Station*, *Year*, *Month*, *Day*, *Hour* and *Minute* in the combo-boxes it's possible to change ionogram's station and/or date;
- By clicking on buttons on the right side, it's possible to:
 - navigate into *Previous* and *Next* ionograms;
 - show the *Real-Time* ionogram again;
 - show the 8 most recent ionograms produced by the selected station.
- By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

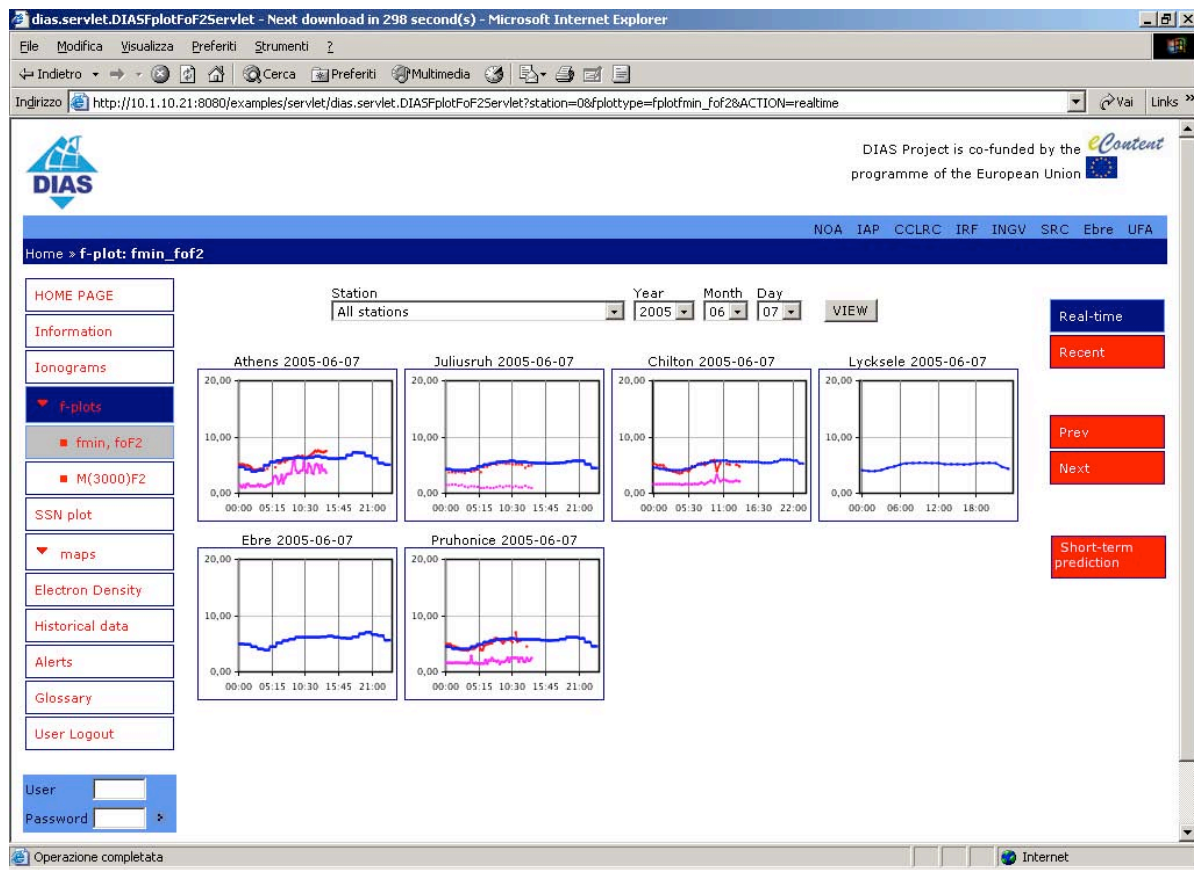
Plots Main Page



- f_{min} , $foF2$ and $M(3000)F2$ plots page are almost similar², so the print screen in the document regards only the f_{min} , $foF2$.
- By clicking on *All Stations* button (on the right side) it is possible to display the current plots (thumbnails) produced by all DIAS stations (see *All Stations plot Page*);
- By clicking on one of the other buttons below the *All Stations* one, it is possible to view the plots provided by a single DIAS station (see *Single Station plot Page*).

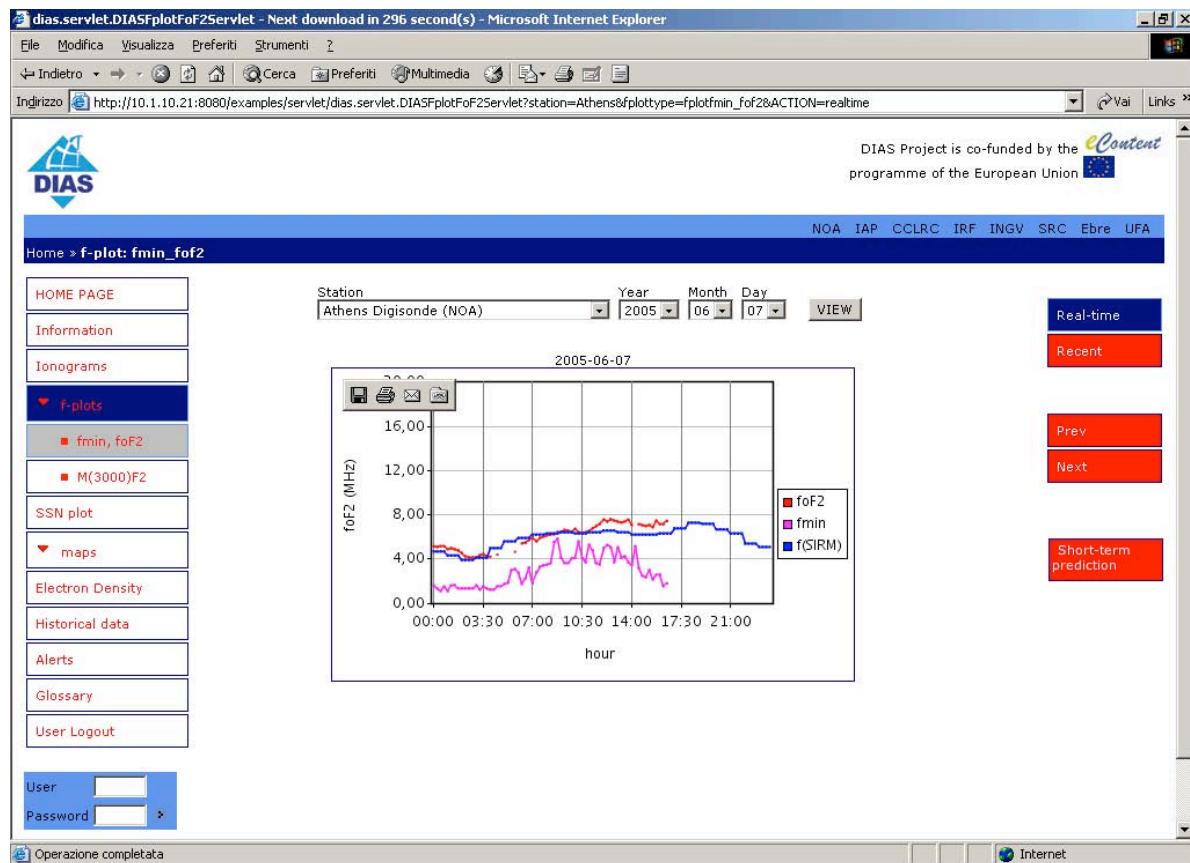
² The only difference is that there is not a *Short-term prediction* section for the parameter $M(3000)F2$

All Stations plot Page



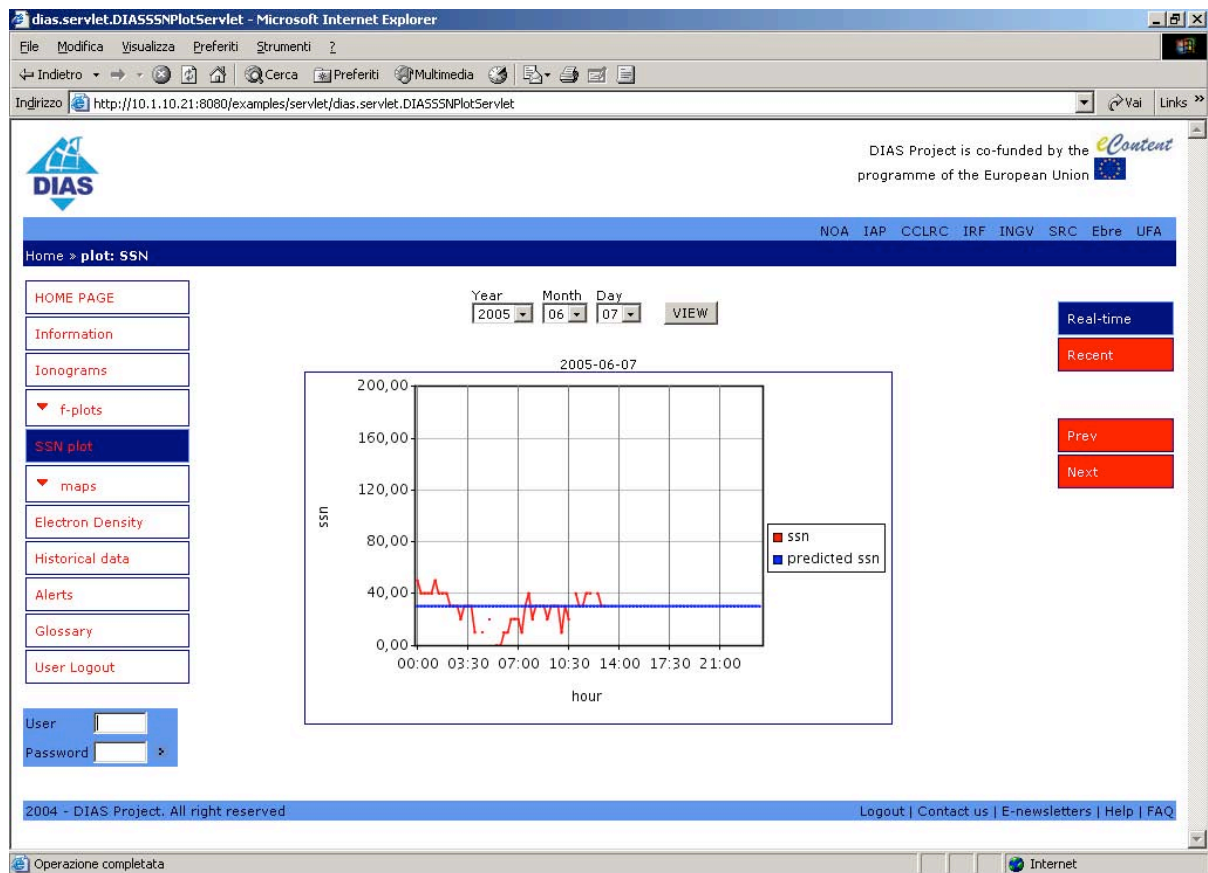
- By clicking on a thumbnail it's possible to zoom it in another window;
- By selecting the values *Station*, *Year*, *Month* and *Day* in the combo-boxes it's possible to change plot's station and/or date;
- By clicking on buttons on the right side, it's possible to:
 - navigate into *Previous* and *Next* plots in multi-frame form (showing all-stations plots);
 - view the *Real-Time* plots in multi-frame form (showing all-stations plots)
 - view the *Short-term Prediction* plots in multi-frame form (showing all-stations plots).

Single Station plot Page



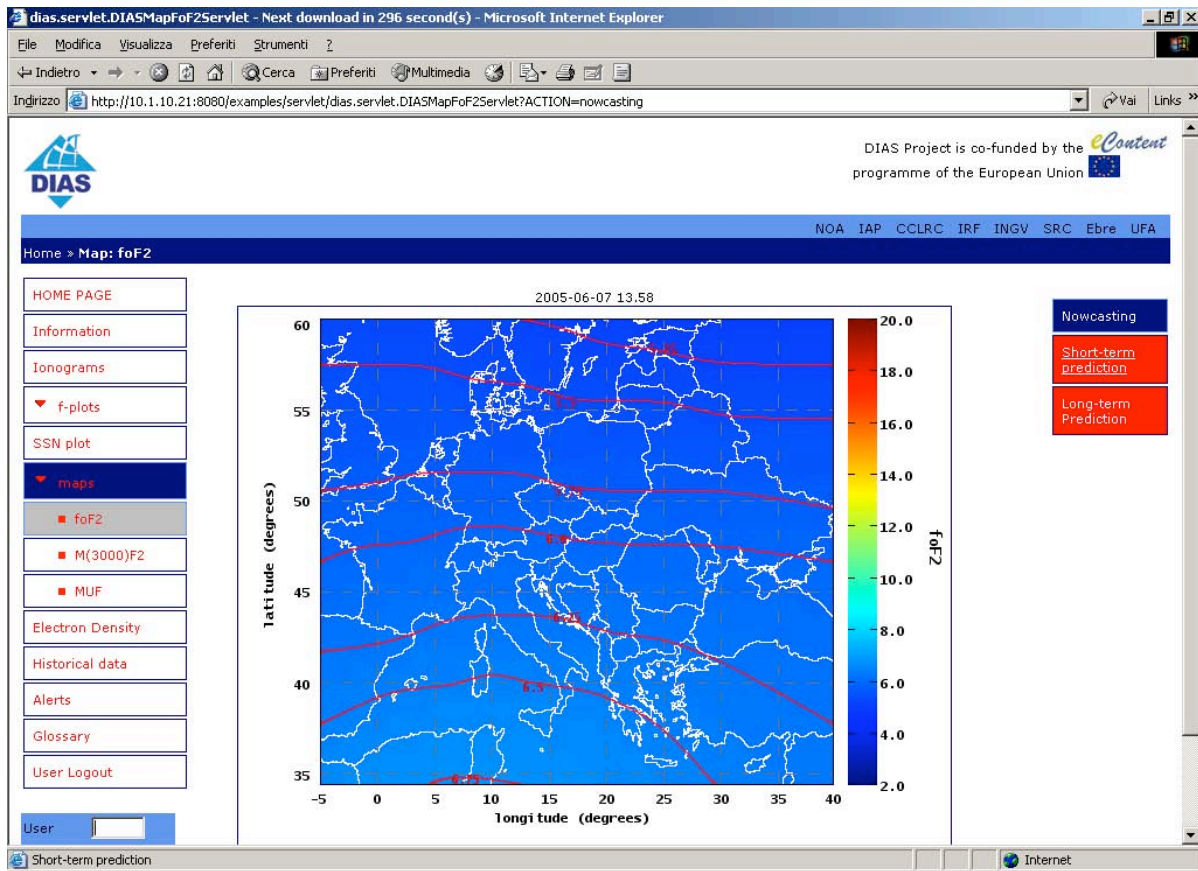
- By selecting the values *Station*, *Year*, *Month* and *Day* in the combo-boxes, it's possible to change plot's station and/or date;
- By clicking on buttons on the right side, it's possible to:
 - navigate into *Previous* and *Next* plots;
 - view the *Real-Time* plot again;
 - view the 8 most recent plots produced by the selected station;
 - view the *Short-term prediction* plot .
- By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

SSN Plot Page



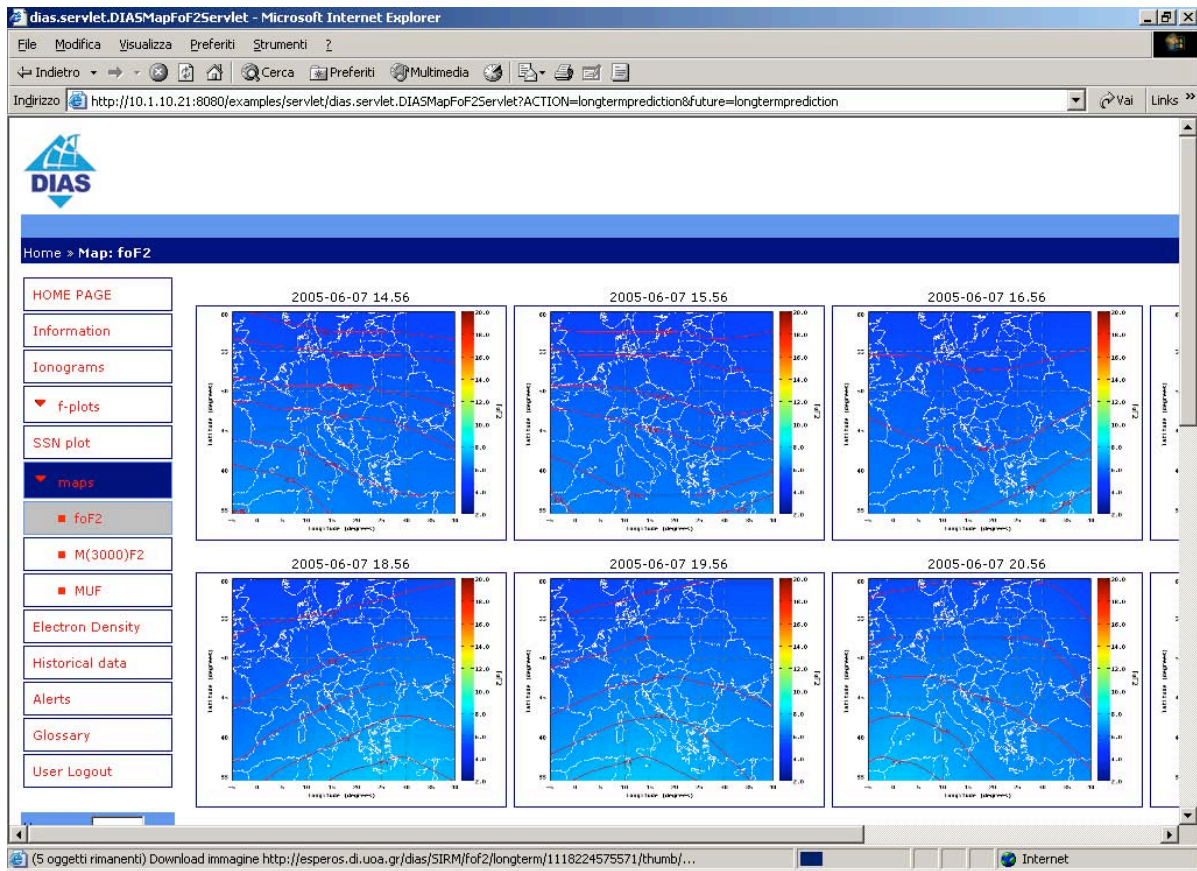
- By selecting the values *Year*, *Month* and *Day* in the combo-boxes, it's possible to change SSN plot's station and/or date;
- By clicking on buttons on the right side, it's possible to:
 - navigate into *Previous* and *Next* SSN plots;
 - show the *Real-Time* SSN plot again;
 - show the 8 most recent SSN plots produced by the selected station.
- By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

foF2 maps Page



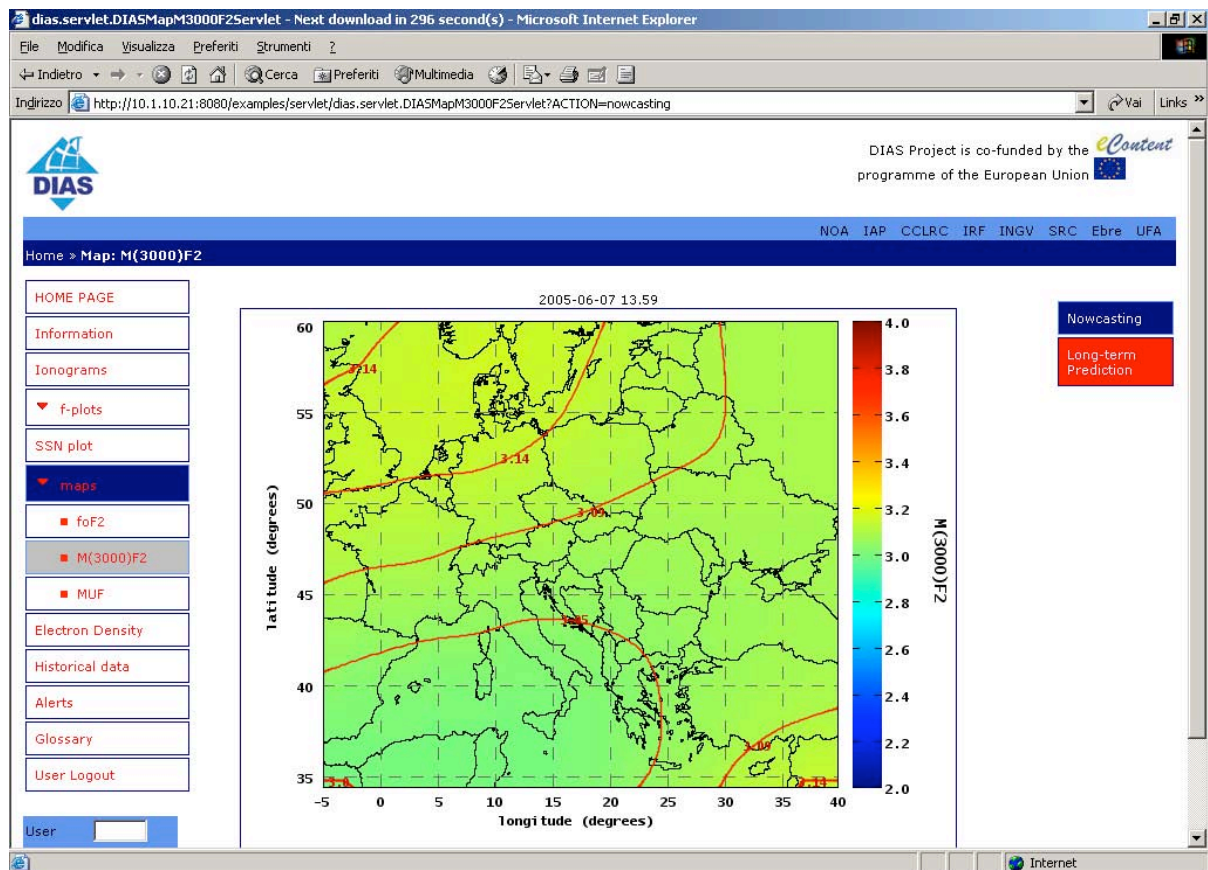
- The above map, which comes up when the foF2 Map page is selected by the main menu, is a nowcasting map;
- By clicking on buttons on the right side, it's possible to:
 - navigate into *Short term prediction* maps (opened as 24 thumbnails);
 - open the into *Long term prediction* maps (opened as 24 thumbnails);
- By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

foF2 long term prediction maps Page



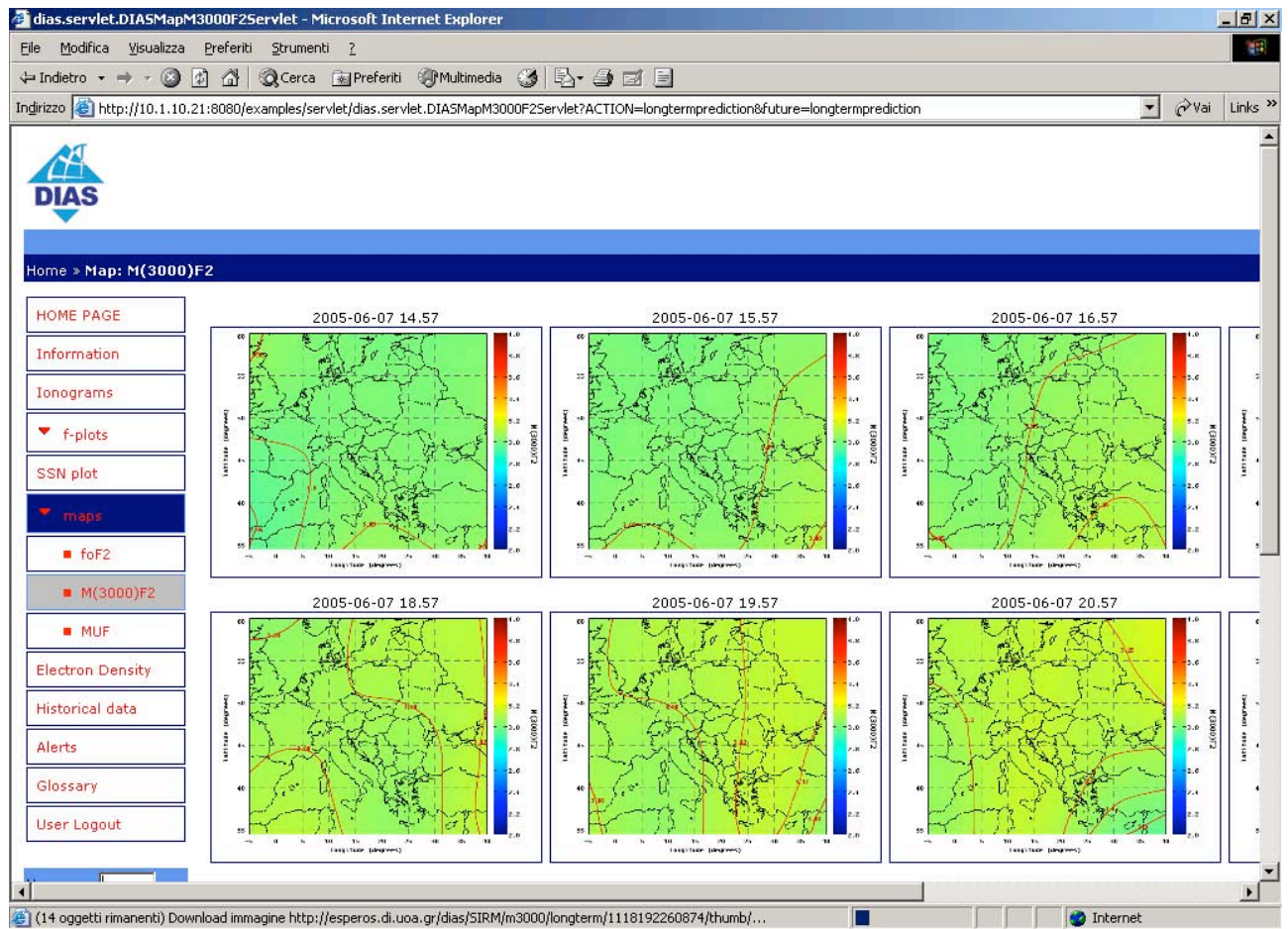
- By clicking on a thumbnail it's possible to zoom it in another window;
- By clicking on buttons on the right side (not visualized in the picture), it's possible to:
 - navigate into *Short term prediction maps* (opened as thumbnails);
 - open the *nowcasting map*.

M(3000)F2 maps Page



- The above map, which comes up when the M(3000)F2 Map page is selected by the main menu, is a nowcasting map;
- By clicking on buttons on the right side, it's possible to:
 - open the into *Long term prediction* maps (opened as 24 thumbnails);
- By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

M(3000)F2 long term prediction maps Page



- By clicking on a thumbnail it's possible to zoom it in another window;
- By clicking on buttons on the right side (not visualized in the picture), it's possible to:
 - open the *nowcasting* map.

MUF Maps Main Page

The screenshot shows the DIAS MUF Maps Main Page. The browser window title is "diaservlet.DIASMapMUFChooserServlet - Microsoft Internet Explorer". The address bar shows the URL "http://10.1.10.21:8080/examples/servlet/dias.servlet.DIASMapMUFChooserServlet". The page features the DIAS logo and a navigation menu with "Home > Map: MUF". A sidebar on the left contains a list of menu items: HOME PAGE, Information, Ionograms, f-plots, SSN plot, maps (highlighted), foF2, M(3000)F2, MUF, Electron Density, Historical data, Alerts, Glossary, and User Logout. The main content area displays a map of Europe with red vertical bars indicating MUF values for Athens, Rome, and Warsaw. A "Where..." dropdown menu is open, showing "Athens", "Rome", and "Warsaw". The status bar at the bottom indicates "Operazione completata" and "Internet".

- By selecting one starting point from the combo box (possible choices: Athens, Stockholm and Madrid³) it is possible to display the nowcasting MUF map generated on the starting point (see *MUF nowcasting maps Page*).

³ In the picture instead of Stockholm and Madrid, Warsaw and Rome are shown

MUF nowcasting maps Page



DIAS Project is co-funded by the  programme of the European Union 

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Home » Map: MUF

ATHENS

ATHENS

HOME PAGE

Information

Ionograms

f-plots

SSN plot

maps

foF2

M(3000)F2

MUF

Electron Density

Historical data

Alerts

Glossary

User Logout

User

Password

MUF maps (under construction)

The DIAS server has been designed taking into consideration the generation of MUF maps (both nowcasts and long term forecasts). They are scheduled to be produced on an hourly basis, with a selection of major cities regarded as the central, transmitting points.

Future services may also include on demand MUF map generation, assigning any site in Europe as the transmitting point.

Nowcasting

Long-term Prediction

2004 - DIAS Project. All right reserved

Logout | Contact us | E-newsletters | Help | FAQ

- By clicking on buttons on the right side it's possible to:
 - open the *long term prediction* maps;
- By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

Electron Density Page

The screenshot displays the DIAS website interface within a Microsoft Internet Explorer browser window. The browser's address bar shows the URL: `http://10.1.10.21:8080/examples/servlet/dias.servlet.DIASFplotChooserStationServlet?fplottype=fplotfmin_fof2`. The website header includes the DIAS logo and a note: "DIAS Project is co-funded by the programme of the European Union". Below the header is a navigation bar with links: "HOME PAGE", "Information", "Ionograms", "f-plots", "fmin, foF2", "M(3000)F2", "SSN plot", "maps", "Electron Density", "Historical data", "Alerts", "Glossary", and "User Logout". The main content area features a map of Europe with several red vertical bars indicating ionospheric data points at various stations. A sidebar on the right lists station names: "All stations", "Athens Digisonde (NOA)", "Juliusruh Digisonde (IAP)", "Chilton Digisonde (CCLRC)", "Lycksele Dynasonde (IRF)", "Ebre Digisonde (Observatori de l'Ebre)", and "Pruhonice Digisonde (UFA)". The browser window also shows a "User" and "Password" login field.

- By clicking on one of the station button, it is possible to view the electron-density map provided by a single DIAS station (see Single Station electron-density Page).

Single Station electron-density Page



DIAS Project is co-funded by the  programme of the European Union 

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Home » Map: Electron Density

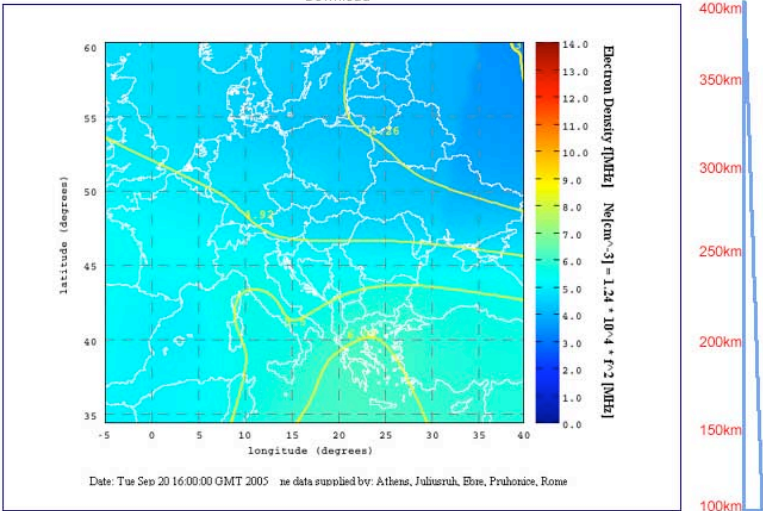
HOME PAGE
Information
Ionograms
F-plots
SSN plot
maps
Electron Density
Historical data
Alerts
Glossary
User Logout

User
Password

Year: 2005 Month: 09 Day: 20 VIEW

Where...
Where...
Athens
Rome
Warsaw

Download



Electron Density [MHz] $N_e(\text{cm}^{-3}) = 1.24 \cdot 10^{-4} \cdot f^2$ [MHz]

Date: Tue Sep 20 16:00:00 GMT 2005 ne data supplied by: Athens, Jubbairuh, Ebre, Pruhonice, Rome

2004 - DIAS Project. All right reserved

Logout | Contact us | E-newsletters | Help | FAQ

By selecting the values *Year*, *Month*, *Day*, in the combo-boxes, it is possible to change electron-density's date (it will be possible to retrieve only maps from 1st September 2005 to the "simulated" real time date);

By clicking on the red numbers (height in km), it is possible to get the map with isolines drawn at the selected height, provided by the selected station.

By clicking on buttons on the right side, it's possible to navigate into *Previous* and *Next* electron-density map.

By clicking on *ASCII* button (not in picture), it will be possible to view the ASCII data.

Alerts Page



DIAS Project is co-funded by the
programme of the European Union

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Home » **Ionograms**

HOME PAGE
Information
Ionograms
▼ F-plots
SSN plot
▼ maps
Electron Density
Historical data
Alerts
Glossary
User Logout

User

Password

All stations
Athens Digisonde (NOA)
Juliusruh Digisonde (IAP)
Chilton Digisonde (CCLRC)
Lycksele Dynasonde (IRF)
Ebre Digisonde (Observatori de l'Ebre)
Pruhonice Digisonde (UFA)
Rome Digisonde (INGV)

2004 - DIAS Project. All right reserved Logout | Contact us | E-newsletters | Help | FAQ

By clicking on *All Stations* button (on the right side), it is possible to display the current alerts about all DIAS stations (see All Stations alerts Page);

By clicking on one of the other buttons below the *All Stations* one, it is possible to view the alerts about a single DIAS station (see Single Station alerts Page).

A text (to be defined) should explain to users that the subscription to the service enables them to receive alerts automatically.

All Stations Alerts Page










DIAS Project is co-funded by the  programme of the European Union 

Home > **Ionograms**

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Station: All stations Alert: foF2 SIRM Alert

Athens 2005-09-21 Download 	Juliusruh 2005-09-21 Download 	Chilton 2005-09-21 Download 
Lycksele 2005-09-21 Download 	Ebre 2005-09-21 Download 	Pruhonic 2005-09-21 Download 
Rome 2005-09-21 Download 		

2004 - DIAS Project. All right reserved Logout | Contact us | E-newsletters | Help | FAQ

By selecting the values *Station*, *Alert*, in the combo-boxes, it's possible to change alert's station/kind.

Single Station Alerts Page



DIAS Project is co-funded by the 
programme of the European Union 

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Home » **Ionograms**


HOME PAGE
Information
Ionograms
▼ f-plots
SSN plot
▼ maps
Electron Density
Historical data
Alerts
Glossary
User Logout

User

Password

Station: Rome Digisonde (INGV) | Alert: foF2 SIRM Alert |

Rome 2005-09-21 Download



```
Wed Sep 21 09:00:00 GMT 2005  
SIRM A1 for Rome  
22.0 % - disturbed
```

2004 - DIAS Project. All right reserved | [Logout](#) | [Contact us](#) | [E-newsletters](#) | [Help](#) | [FAQ](#)

By selecting the values *Station*, *Alert*, in the combo-boxes, it's possible to change alert's station/kind.

Glossary Page

DIAS Project is co-funded by the programme of the European Union

NOA IAP CCLRC IRF INGV SRC Ebre UFA

Home > Glossary

HOME PAGE
Information
Ionograms
f-plots
SSN plot
maps
Electron Density
Historical data
Alerts
Glossary
User Logout

User
Password

TOC
ap index
Ap index
Dst index
Coordinated Universal Time(UTC)
Electron Density
fmin
foE
foF2
f-plot
Geomagnetic activity
Geomagnetic storm
h'F2
hmF2
High latitudes
High Frequency(HF)
Ionogram
Ionospheric storm
Interplanetary Magnetic Field (IMF)
K Index
kp index
Lowest Usable Frequency (LUF)
M(3000)
M(3000)F2
Median
Middle latitudes
MUF
N(h) profiles
Optimum Working Frequency (OWF)
Plasma
Plasma frequency
Reflection
Refraction
Refractive index
Retardation
Smoothed Sunspot Number (SSN)

The glossary regards the most common terms used in the Web site (the same terms already existing in DIAS Prototype)

Dead Lines

In order to have all the above:

- the digisondes/dynasondes/ionosondes taking part to the DIAS network have to be on line and/or able to furnish all the necessary info in terms of ionograms images and SAO files to the server of the University of Athens;
- all the applications have to be able to furnish what in the Kiruna technical meeting has been decided⁴.

The University of Athens will have to worry to save all the outputs of the DIAS prototype in terms of figures, maps, data, alerts and so on to make possible the realization of the static database on which the Web Demo will be based.

In order to have a Web Demo working on CD in November 2005:

- By September 30th this document must be agreed by the partners;
- By September 30th the static DB file system (file names only) should be provided to INGV by UOA.
- By October 15th all images, maps, data and alerts should be provided to INGV by UOA.

⁴ Raw data (SAO files) for all stations from the decided date and hour backward to the 1st of September 2005;
Ionograms (PNG files) for all stations from the decided date and hour backward to the 1st of September 2005;
foF2, foF2(SIRM), fmin, M(3000)F2, M(3000)F2(SIRM), predicted sunspot number and Reff plots + corresponding ascii data for all stations from the decided date and hour backward to the 1st of September 2005;
foF2 short-term forecasting plots for all stations;
foF2 and M(3000)F2 nowcasting and long terms maps + grids;
foF2 and M(3000)F2 long-term forecast maps + grids;
foF2 short-term forecasting maps + grids;
nowcasting electron density maps (100-400 Km) + grids;
MUF nowcasting and long term forecasting maps (transmitting locations: Athens, Madrid, Stockholm) + grids;
Alerts real time & forecasting (for all stations).