

# Introduction to terminal and Web access

## Computer user training course 2015

Carsten Maass

User Support

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## Setup ssh trust

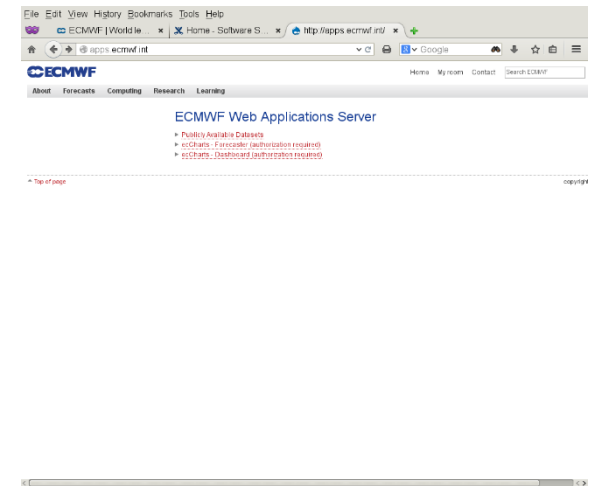
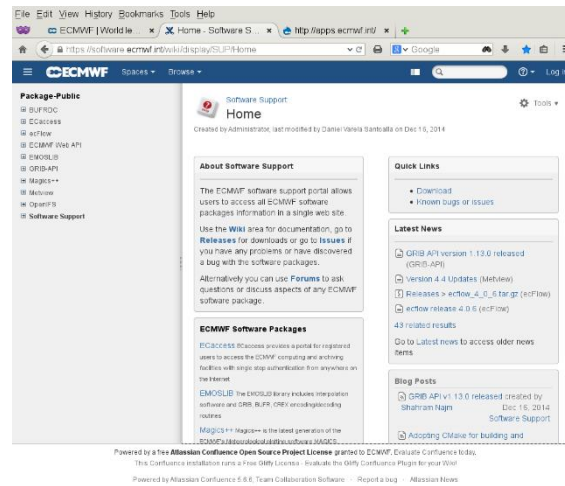
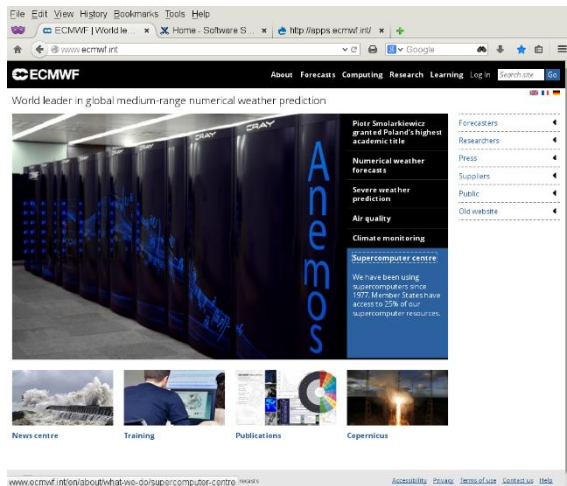
- `cd ~/.ssh`
- Generate public/private dsa key pair

```
ssh-keygen -t dsa
```

- Add public key into `~/.ssh/authorized_keys` on target host

```
cat id_dsa.pub >> ~/.ssh/authorized_keys
```

# How many websites?



**A single login database is used with multiple database replicas of user details in each web site**

## Key web services

<a href="http://www.ecmwf.int">www.ecmwf.int</a> – public pages/charts	no login required
<a href="http://www.ecmwf.int">www.ecmwf.int</a> – pages requiring login	web login required
<a href="http://www.ecmwf.int">www.ecmwf.int</a> – charts requiring login	web login and access required
<a href="http://software.ecmwf.int">software.ecmwf.int</a> – software packages	no login required
<a href="http://software.ecmwf.int">software.ecmwf.int</a> – collaboration	web login required
<a href="http://apps.ecmwf.int/datasets">apps.ecmwf.int/datasets</a>	web login required to download
<a href="http://apps.ecmwf.int/services/mars/catalogue">apps.ecmwf.int/services/mars/catalogue</a>	web login and access required
<a href="http://apps.ecmwf.int/forecaster">apps.ecmwf.int/forecaster</a> (eccharts)	web login and access required

# How many access classes?

## **Unregistered**

Unregistered users are anonymous users (i.e., users unknown to the ECMWF computer systems).

## **Self registered**

Self-registered users have a unique web User ID and password. In this case the level of web access available also depends upon the internet domain from which the user registers on the ECMWF web site.

## **Fully registered**

Fully-registered users have been registered by the Computing Representative for their Member or Co-operating State. They have a unique Web or computer User ID and may have a web login password or security token. Internal ECMWF users (e.g. training user-IDs) will also have a Unix password but this cannot be used to log in on the web sites.

# Authentication methods

- Web password
  - Can be changed
  - Does not expire
- Security token
- SSL user certificate
  - Computer users can get certificate from <https://w3cert.ecmwf.int/>
- Login with password, token and certificate expires after 72 hours
- An api key for batch access to [api.ecmwf.int](https://api.ecmwf.int)
  - Api key does not expire

# User management

- **Self registration**

- Needs a working email address to confirm details
- Registering from within a recognised domain gives additional access rights
- Registering from outside gives limited access rights (e.g. to download data)

- **Full registration**

- Access rights depend on registering organisation

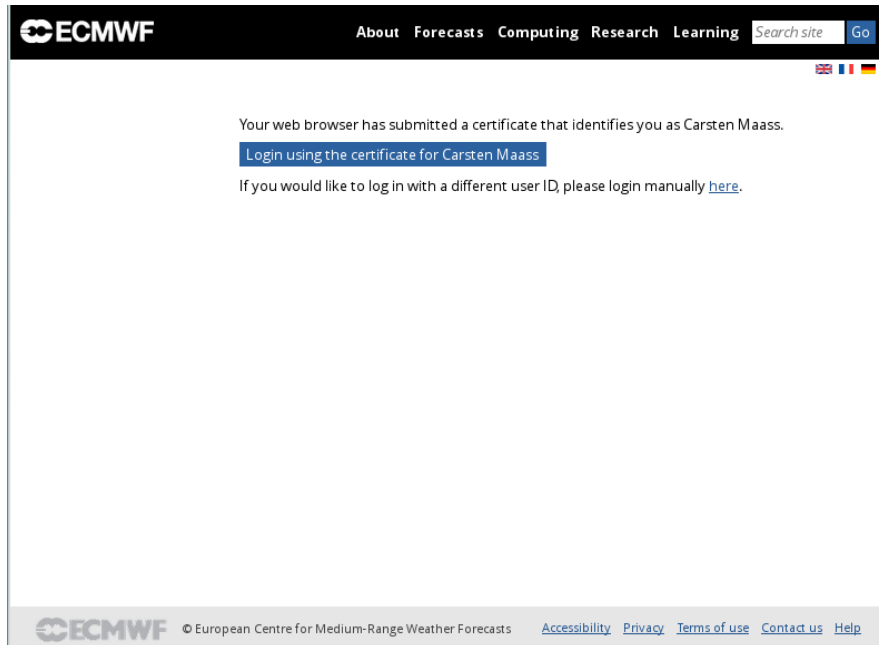
- **Web passwords can be reset**

- Need to know your userid or email

- **Web passwords can be changed**

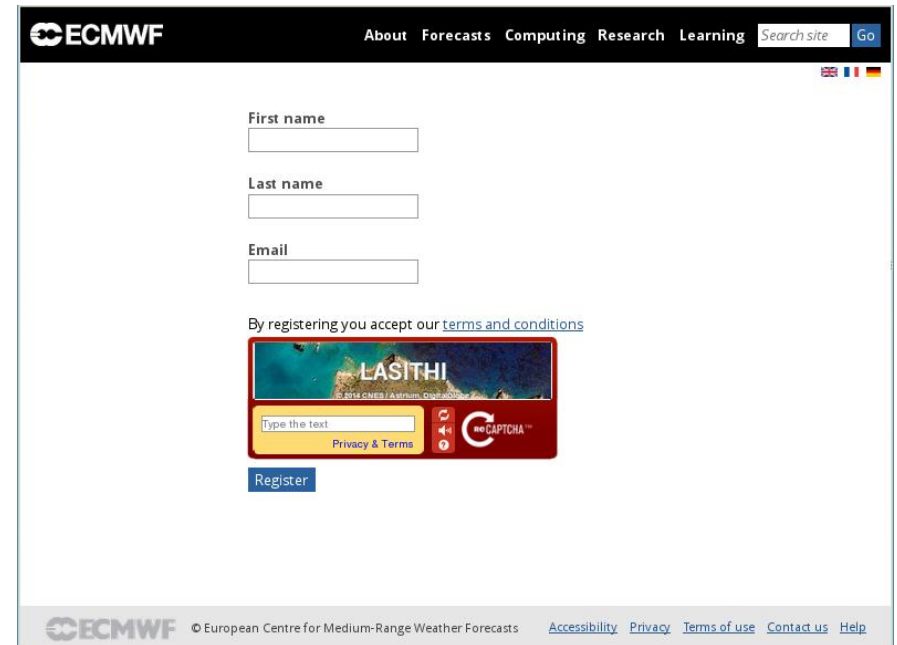
- You need to be logged in

# Examples of login and page access



The screenshot shows the ECMWF website header with navigation links: About, Forecasts, Computing, Research, Learning, and a search bar. The main content area displays a message: "Your web browser has submitted a certificate that identifies you as Carsten Maass." Below this, there is a blue button labeled "Login using the certificate for Carsten Maass" and a link "here" for manual login. The footer contains the ECMWF logo and text: "© European Centre for Medium-Range Weather Forecasts" followed by links for Accessibility, Privacy, Terms of use, Contact us, and Help.

**Login with SSL user certificate**

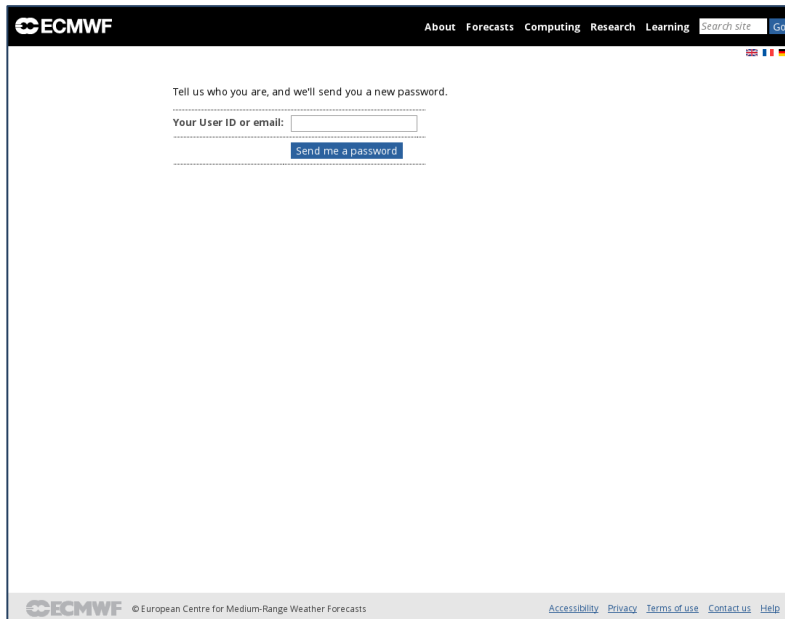


The screenshot shows the ECMWF website header with navigation links: About, Forecasts, Computing, Research, Learning, and a search bar. The main content area features a registration form with input fields for "First name", "Last name", and "Email". Below the form, there is a link "By registering you accept our terms and conditions" and a red "reCAPTCHA" widget with the text "Type the text" and "Privacy & Terms". A blue "Register" button is positioned below the reCAPTCHA. The footer contains the ECMWF logo and text: "© European Centre for Medium-Range Weather Forecasts" followed by links for Accessibility, Privacy, Terms of use, Contact us, and Help.

**Self registration**

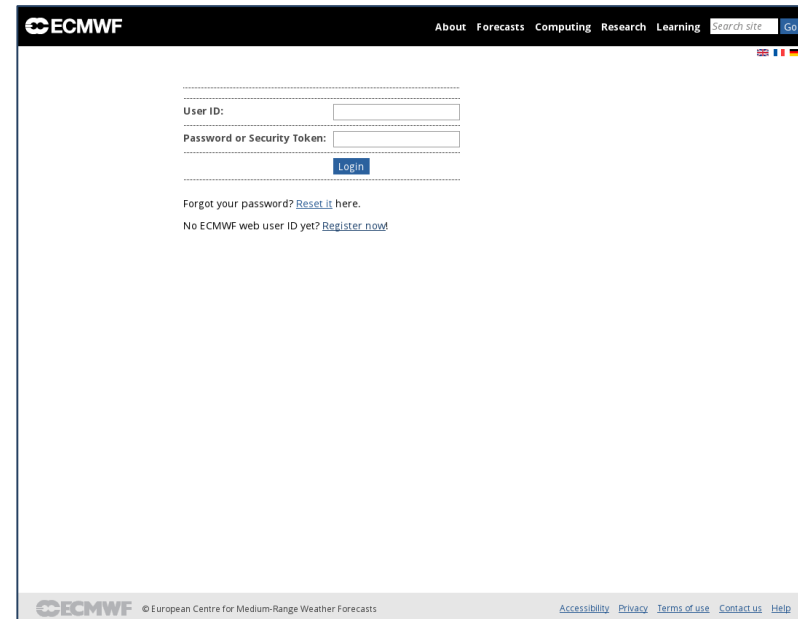


# Examples of login and page access



The screenshot shows the ECMWF website's password reset page. At the top, there is a navigation bar with the ECMWF logo and links for 'About', 'Forecasts', 'Computing', 'Research', and 'Learning'. A search bar is also present. The main content area features the text 'Tell us who you are, and we'll send you a new password.' followed by a form labeled 'Your User ID or email:' with a text input field and a 'Send me a password' button. The footer contains the ECMWF logo, copyright information, and links for 'Accessibility', 'Privacy', 'Terms of use', 'Contact us', and 'Help'.

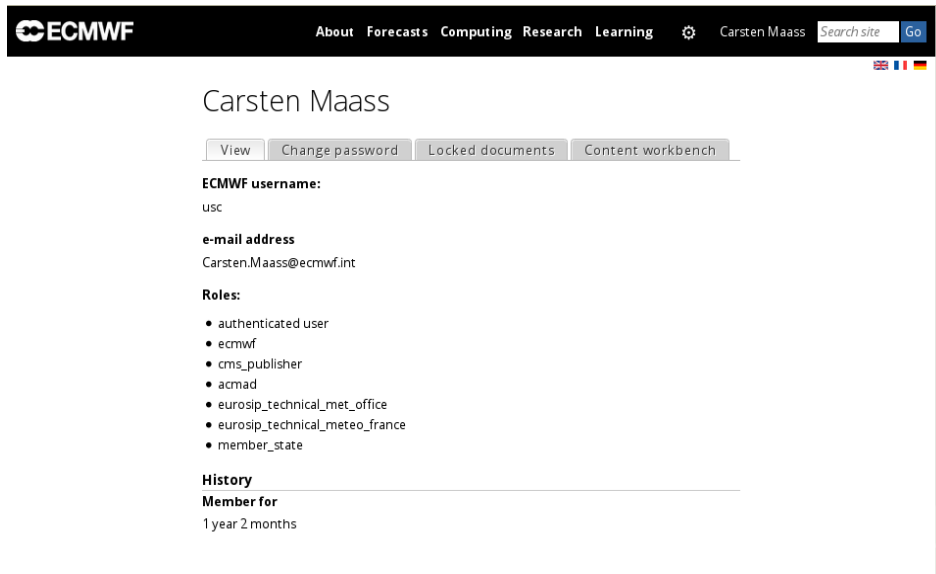
**Web password reset**



The screenshot shows the ECMWF website's login page. It features the same navigation bar as the password reset page. The main content area has a form with two input fields: 'User ID:' and 'Password or Security Token:'. Below the second field is a 'Login' button. There are also links for 'Forgot your password? Reset it here.' and 'No ECMWF web user ID yet? Register now!'. The footer is identical to the password reset page.

**Login with user ID and Web password or token**

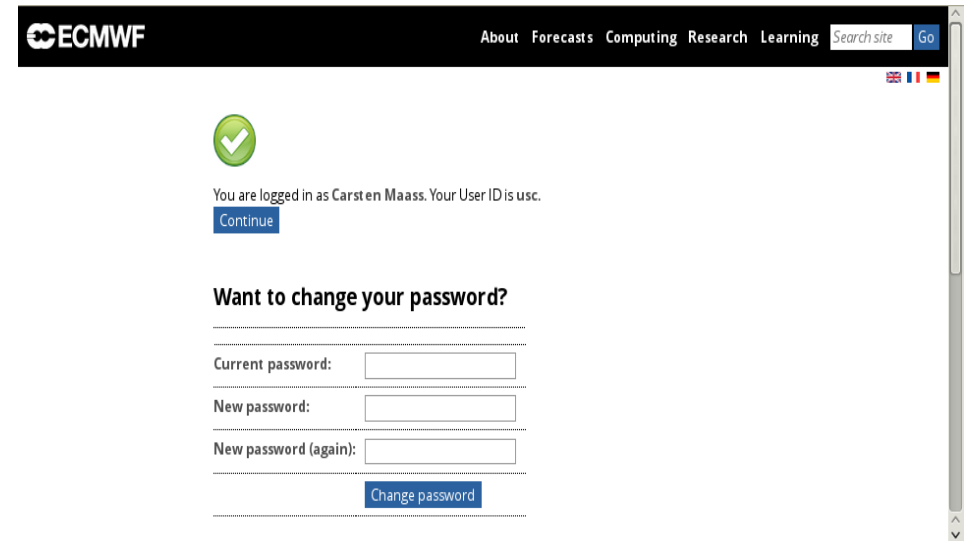
# Examples of login and page access



The screenshot shows the ECMWF user profile page for Carsten Maass. The page has a dark header with the ECMWF logo and navigation links: About, Forecasts, Computing, Research, Learning, and a search bar. Below the header, the user's name "Carsten Maass" is displayed. There are four tabs: "View" (selected), "Change password", "Locked documents", and "Content workbench". The profile information includes:

- ECMWF username:** usc
- e-mail address:** Carsten.Maass@ecmwf.int
- Roles:**
  - authenticated user
  - ecmwf
  - cms\_publisher
  - acmad
  - eurosip\_technical\_met\_office
  - eurosip\_technical\_meteo\_france
  - member\_state
- History:**
  - Member for:** 1 year 2 months

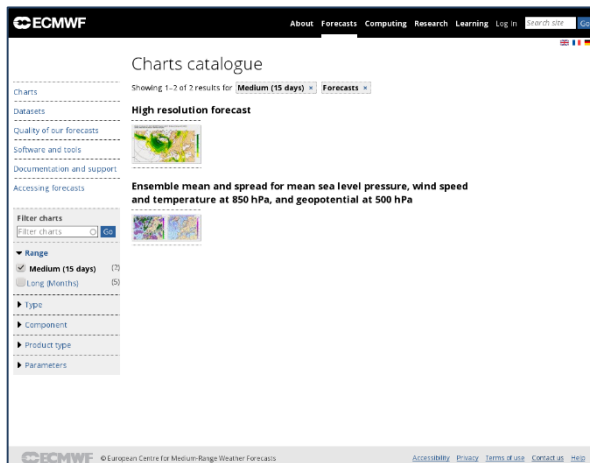
**Click on “your logged in name” to get user details**



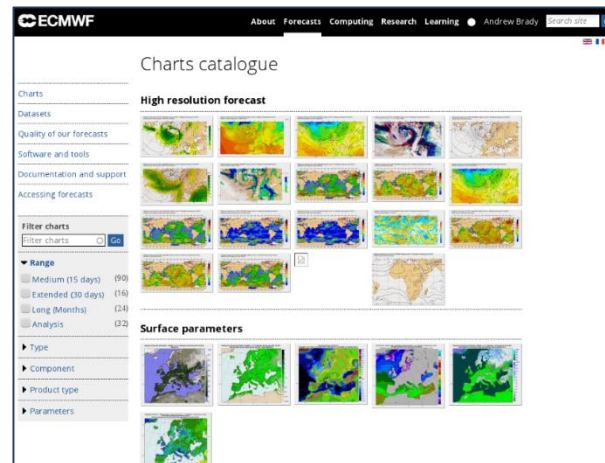
The screenshot shows the ECMWF password change page. The header is identical to the previous screenshot. The main content area features a green checkmark icon and the text: "You are logged in as Carsten Maass. Your User ID is usc." Below this is a "Continue" button. The section is titled "Want to change your password?" and contains three input fields: "Current password:", "New password:", and "New password (again):". A "Change password" button is located at the bottom of the form.

**When logged in can change password**

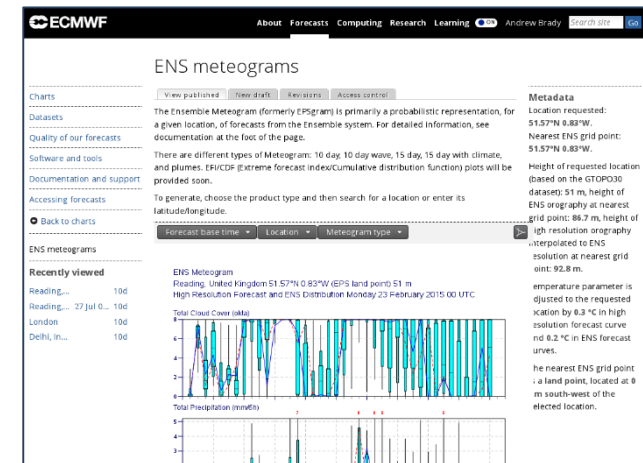
# Examples of login and page access



**Not logged in: Public charts only**



**Logged in: Access to charts**



**Logged in: Access to ENS meteograms**

# Examples of login and page access

Service status

Service Status

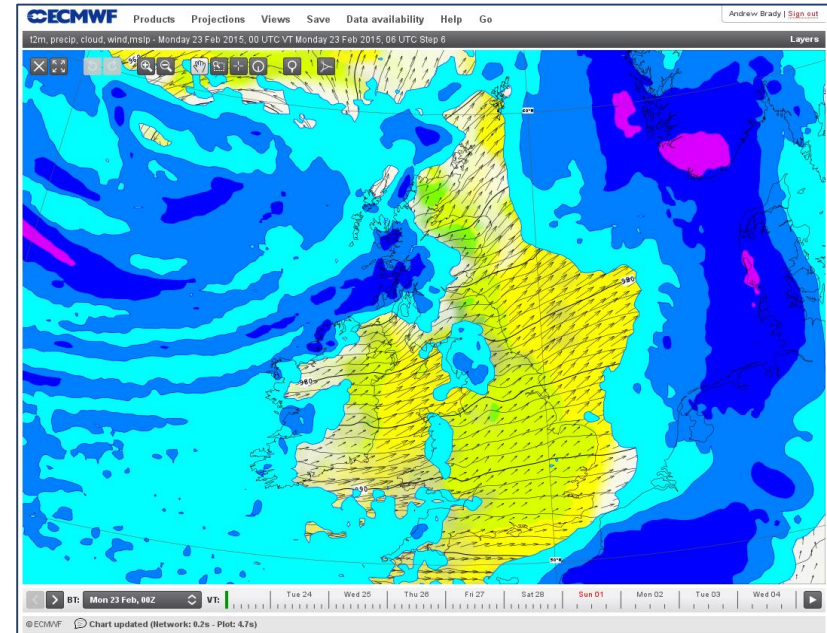
CCA	CCB	DISSEMINATION
ECACCESS	ECFS	ECGATE
EFAS	EMAIL	INTERNET
MARS	MSACCESS	propIFS
RMDCN	TELEPHONY	WEB-SERVICES

Notifications

Search:  date range: last 24h | last 7 days | last 30 days | all

Date Created	Service	Notification Type	Title	User Action Required
Mon 23/Feb/2015 10:00:20 UTC	ECFS	End	MarsRD and ECFS services recovered.	
Fri 20/Feb/2015 14:54:30 UTC	ECFS	Start	MarsRD and ECFS services degraded.	
Thu 19/Feb/2015 15:09:43 UTC	ECGATE	End	System Session Ended: ECGB: slurm configuration change	✓
Thu 19/Feb/2015 14:38:21 UTC	ECGATE	Start	System Session Starts: ECGB:	✓

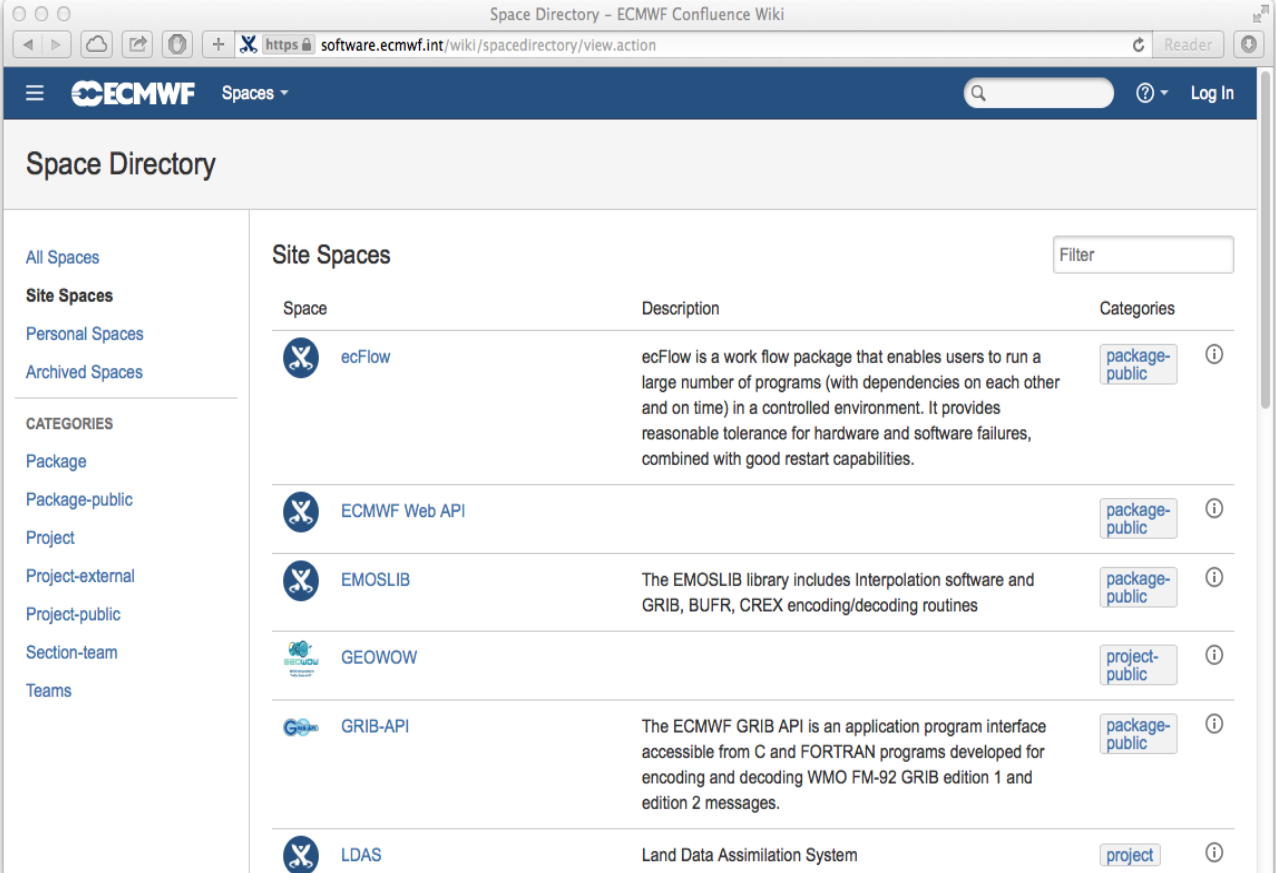
**status.ecmwf.int: public**









**Logged in: Eccharts**

# Software Support – software.ecmwf.int

- Effort to improve the support ECMWF provides to MS for its software packages
- Dedicated first line of support, issue management, binary packages, moderated forums, etc.



The screenshot shows the 'Space Directory' page on the ECMWF Confluence Wiki. The page title is 'Space Directory' and the URL is 'https://software.ecmwf.int/wiki/spacedirectory/view.action'. The page features a navigation menu on the left with options like 'All Spaces', 'Site Spaces', 'Personal Spaces', and 'Archived Spaces'. The main content area is titled 'Site Spaces' and contains a table with columns for 'Space', 'Description', and 'Categories'. The table lists several spaces, including 'ecFlow', 'ECMWF Web API', 'EMOSLIB', 'GEOWOW', 'GRIB-API', and 'LDAS'. Each entry includes a description and a category label (e.g., 'package-public', 'project-public', 'project').

Space	Description	Categories
 ecFlow	ecFlow is a work flow package that enables users to run a large number of programs (with dependencies on each other and on time) in a controlled environment. It provides reasonable tolerance for hardware and software failures, combined with good restart capabilities.	package-public ⓘ
 ECMWF Web API		package-public ⓘ
 EMOSLIB	The EMOSLIB library includes Interpolation software and GRIB, BUFR, CREX encoding/decoding routines	package-public ⓘ
 GEOWOW		project-public ⓘ
 GRIB-API	The ECMWF GRIB API is an application program interface accessible from C and FORTRAN programs developed for encoding and decoding WMO FM-92 GRIB edition 1 and edition 2 messages.	package-public ⓘ
 LDAS	Land Data Assimilation System	project ⓘ

# software.ecmwf.int

- Now also used beyond for user documentation, training material, ...

The screenshot displays two browser windows. The top window shows a page titled 'User Documentation' with the URL <https://software.ecmwf.int/wiki/pages/viewpage.action?title=User+Documentation&spaceKey=UDOC>. The bottom window shows the 'ECMWF Training activities' page, created by Anna Ghelli and last modified by Carsten Maass on Feb 19, 2015. The page features a sidebar with navigation options like 'Training', 'Blog', and 'SPACE SHORTCUTS'. The main content area includes a 'LATEST NEWS' section about training course registration, a section for staying up-to-date with outreach activities, and a section titled 'Use and Interpretation of ECMWF products' which describes annual training courses for forecasters and researchers. A right-hand sidebar lists 'Our Webinars' for Friday, Feb 27, 2015, including events on March 03, 04, and 05, all related to the Copernicus Climate Data Store Infrastructure workshop.

# Web Services – Certificate request

1. Start Firefox and on old.ecmwf.int navigate to Login > ECMWF Certificate Authority
2. Create certificate
  - Do not remember password for this site
3. Install Certificate and CA
  - When asked to set a Master Password just press “Enter”
  - Trust CA to identify Web sites (only)
4. Quit Firefox
5. Restart Firefox and login to Website using your certificate



# Sources of information

- Service status
  - Linked from [www.ecmwf.int](http://www.ecmwf.int) or [software.ecmwf.int](http://software.ecmwf.int) or directly at <http://status.ecmwf.int>
  - `less /etc/motd`
- man/xman
  - print entries from on-line reference manuals
  - find man page entries by keyword
  - *beware* - different parameter options on different systems
  - `man man` will show what options are available
  - not all commands will have man pages on all systems (e.g. HPCF)
- mails
  - Official announcements sent to TAC Reps, Met. Contact points and Computing Representatives
  - Notifications to users
- ECMWF publications [www.ecmwf.int/en/research/publications](http://www.ecmwf.int/en/research/publications)
  - Newsletters, Technical memoranda, proceedings, ...



## Who to contact

- CallDesk (24h/7d) [calldesk@ecmwf.int](mailto:calldesk@ecmwf.int)
  - General problems, connectivity issues, token problems
  - suspected fault
  - Operational/service queries
- Software Support [software.support@ecmwf.int](mailto:software.support@ecmwf.int)
  - any suggestions for improvements or bug reports with *any* ECMWF software package
  - Software requests
- User Support (office hours) [advisory@ecmwf.int](mailto:advisory@ecmwf.int)
  - advice on any aspect of the use of ECMWF computers

## Who to contact

- Data Services (office hours) [data.services@ecmwf.int](mailto:data.services@ecmwf.int)
  - Queries regarding access to data
- Member State Computing Representative (office hours)
  - registration / administration
  - ECMWF software installed locally (at national met service)
- Queries or feedback regarding the forecast products  
[forecast\\_user@ecmwf.int](mailto:forecast_user@ecmwf.int)

