ECMWF products

Data Services Team ECMWF

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Data Services plays a key role in the distribution of ECMWF Meteorological products to external stakeholders worldwide. Part of Data Services' role is to help them customise products for their specific needs and enable them to use ECMWF's vast archive.

The challenges of providing these data and services include

- offering users easy and powerful interfaces to tailor their requests
- dealing with an increasing number of users
- transferring large amounts of data via the Internet

The future of Data Services at ECMWF will include new self-service (web) interfaces for end users, possible new uses of cloud services and reviews of our current licensing models.

What are ECMWF products?

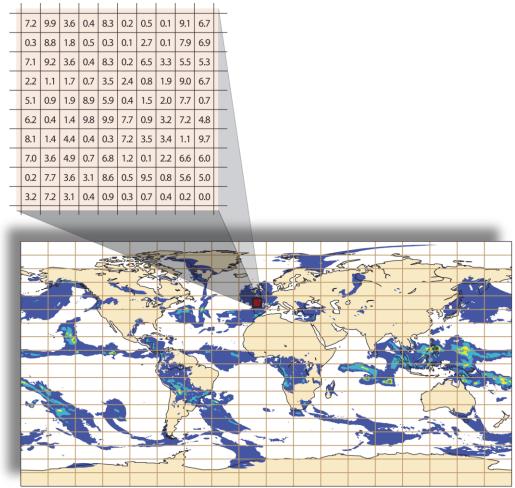
ECMWF products are output of numerical weather prediction (NWP) models that run on high performance computers

Each field represents a predicted value of:

- One parameter
- One date

• One time

- One step
- One level
- One forecasting system



What are ECMWF products?

Sets of fields are expressed in meteorological terms (MARS requests)

STREAM	=	DA,
TIME	=	00/12,
LEVT	=	SFC,
TYPE	=	FC,
STEP	=	0/3/6/12,
PARAM	=	10U/10V



Availability of ECMWF Products

- Via the dissemination system
- In MARS (Meteorological Archival Retrieval System)
- On the Web
- Via dedicated data servers or FTP

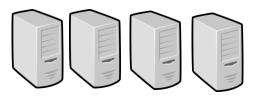


Dissemination system is driven by a set of user defined requirements

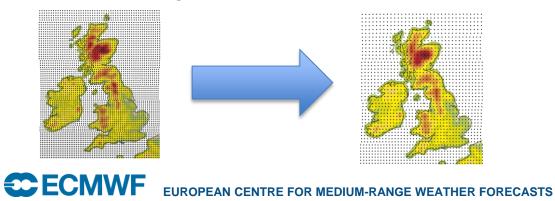
List of requested products

STREAM	4 =	DA,
TIME	=	00/12,
LEVT	=	SFC,
TYPE	=	FC,
STEP	=	0/3/6/12,
PARAM	=	10U/10V

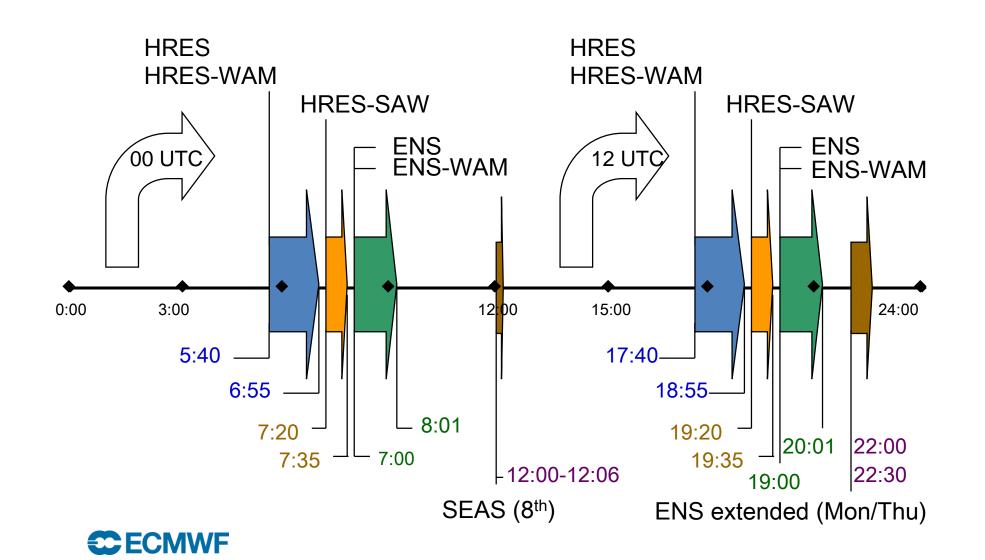
Destinations (target machines,...)



Post-processing (interpolation)



Products are pushed to the end users according to a specific schedule



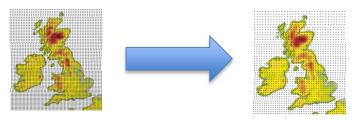
Availability of ECMWF Products

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MARS: Meteorological Archival Retrieval System

- More than 30 years of data
- Data in GRIB and BUFR format according to WMO standards
- Retrievals expressed in meteorological terms (MARS requests)
- Post-processing facilities
 - Interpolation between various data representation
 - Interpolation on coarser grids
 - Sub-area extractions
- Data can be pulled to the client machine



STREAM =

STEP = PARAM =

TTME

TYPE

DA,

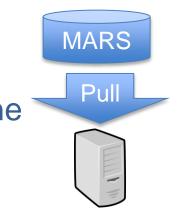
SFC,

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100/10V





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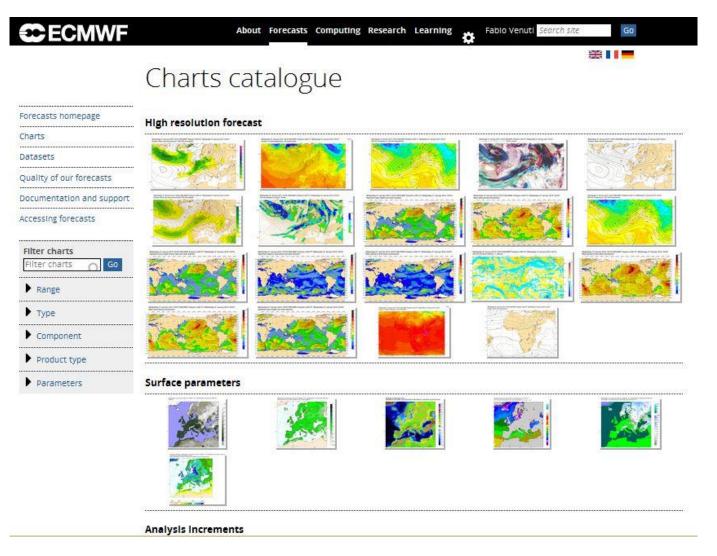


Web products

- The current WEB Catalogue
 - A fixed set of products
 - A consistent view of all ECMWF graphical products
 - A consistent navigation
- ecCharts
 - A fully interactive web based way of visualising the ECMWF products

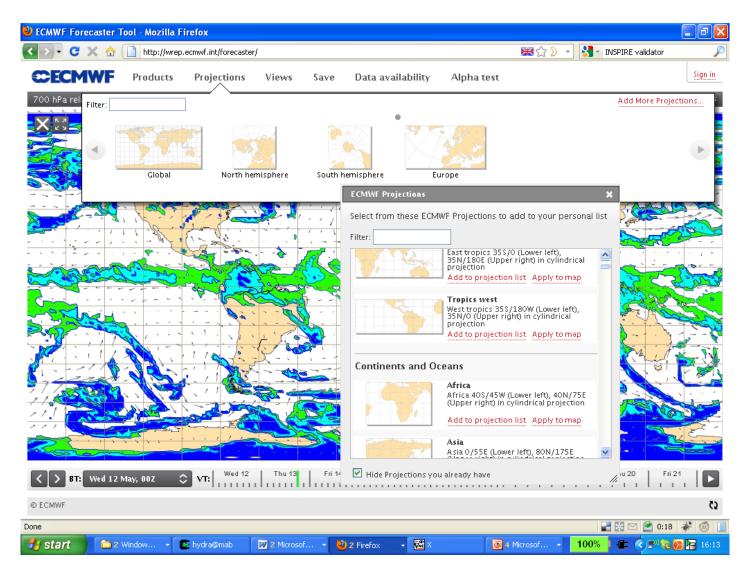


Web product catalogue





ecCharts: forecaster application





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- On the Web
- Via dedicated data servers or FTP



ECMWF dedicated data servers

Index of ftp://wmo@data-portal.ecmwf.int/20160314000000/

Op to higher level directory

Name Size A HHXA50ECED140000_C_ECMF_20160314000000_0h_es_gh_500hPa_global_0p5deg_... 67 KB A_HHXA50ECEM140000_C_ECMF_20160314000000_0h_em_gh_500hPa_global_0p5deg... 137 KB A_HHXA50ECMF140000_C_ECMF_20160314000000_an_gh_500hPa_global_0p5deg_grib... 138 KB A_HHXE50ECED140000_C_ECMF_20160314000000_24h_es_gh_500hPa_global_0p5deg... 67 KB A_HHXE50ECEM140000_C_ECMF_20160314000000_24h_em_gh_500hPa_global_0p5de... 101 KB A_HHXE50ECMF140000_C_ECMF_20160314000000_24h_gh_500hPa_global_0p5deg_gri... 136 KB A HHXI50ECED140000 C ECMF 20160314000000 48h es gh 500hPa global Op5deg ... 71 KB 14/03/16 A_HHXI50ECEM140000_C_ECMF_20160314000000_48h_em_gh_500hPa_global_0p5deg... 95 KB 14/03/16 A HHXI50ECMF140000 C ECMF 20160314000000_48h_gh_500hPa_global_0p5deg_gri... 137 KB 14/03/16 A HHXK50ECED140000 C ECMF 20160314000000 72h es gh 500hPa global 0p5deg... 73 KB 14/03/16 A_HHXK50ECEM140000_C_ECMF_20160314000000_72h_em_gh_500hPa_global_0p5de... 90 KB 14/03/16 (A_HHXK50ECMF140000_C_ECMF_20160314000000_72h_gh_500hPa_global_0p5deg_gri... 137 KB 14/03/16 A HHXM50ECED140000 C ECMF 20160314000000 96h es gh 500hPa global 0p5de... 72 KB 14/03/16 A_HHXM50ECEM140000_C_ECMF_20160314000000_96h_em_gh_500hPa_global_0p5de... 86 KB 14/03/16 (A HHXM50ECMF140000 C ECMF 20160314000000 96h gh 500hPa global 0p5deg gr., 136 KB 14/03/16 A_HHX050ECED140000_C_ECMF_20160314000000_120h_es_gh_500hPa_global_0p5de... 74 KB 14/03/16 A_HHX050ECEM140000_C_ECMF_20160314000000_120h_em_gh_500hPa_global_0p5d... 83 KB 14/03/16 A HHXO50ECMF140000_C_ECMF_20160314000000_120h_gh_500hPa_global_0p5deg_... 136 KB 14/03/16 A_HHXQ50ECED140000_C_ECMF_20160314000000_144h_es_gh_500hPa_global_0p5de... 74 KB 14/03/16 A_HHXQ50ECEM140000_C_ECMF_20160314000000_144h_em_gh_500hPa_global_0p5d... 81 KB 14/03/16 A_HHXQ50ECMF140000_C_ECMF_20160314000000_144h_gh_500hPa_global_0p5deg_... 138 KB 14/03/16 A_HHXS50ECED140000_C_ECMF_20160314000000_168h_es_gh_500hPa_global_0p5de... 75 KB 14/03/16 (A HHXS50ECEM140000_C_ECMF_20160314000000_168h_em_gh_500hPa_global_0p5d... 81 KB 14/03/16 A HHXS50ECMF140000 C ECMF 20160314000000 168h gh 500hPa global 0p5deg g... 138 KB 14/03/16 A_HHXT50ECED140000_C_ECMF_20160314000000_240h_es_gh_500hPa_global_0p5de... 76 KB 14/03/16 (A_HHXT50ECEM140000_C_ECMF_20160314000000_240h_em_gh_500hPa_global_0p5d... 78 KB 14/03/16 (A HHXT50ECMF140000 C ECMF 20160314000000 240h gh 500hPa global 0p5deg g... 138 KB 14/03/16 (A HHXW50ECED140000 C ECMF 20160314000000 192h es gh 500hPa global 0p5d... 75 KB 14/03/16 A HHXW50ECEM140000 C ECMF 20160314000000 192h em gh 500hPa global 0p5... 14/03/16 80 KB A_HHXW50ECMF140000_C_ECMF_20160314000000_192h_gh_500hPa_global_0p5deg ... 139 KB 14/03/16 A_HHXY50ECED140000_C_ECMF_20160314000000_216h_es_gh_500hPa_global_0p5de... 76 KB 14/03/16 A_HHXY50ECEM140000_C_ECMF_20160314000000_216h_em_gh_500hPa_global_0p5d... 80 KB 14/03/16 A HHXY50ECMF140000 C ECMF 20160314000000 216h gh 500hPa global 0p5deg g... 139 KB 14/03/16 A_HPXA89ECED140000_C_ECMF_20160314000000_0h_es_msl_global_0p5deg_grib2.bin 86 KB 14/03/16

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About Forecasts Computing Research Learning

avigation	Public Datasets
Home Public Datasets Job list	Access to these datasets is provided free of charge. Terms and conditions $m_{\rm f}$
	ERA5 test (Jan 2016 - Feb 2016) NEW
ee also	CERA-20C (Jan 1901 - Dec 2010) NEW
Access Public Datasets General FAQ WebAPI FAQ Accessing forecasts	ERA-20C (Jan 1900 - Dec 2010) ERA-Interim (Jan 1979 - present) ERA-Interim/LAND (Jan 1979 - Dec 2010) ERA-20CM (Jan 1900 - Dec 2010) Final ERA-20CM (Jan 1900 - Dec 2010) Final
GRIB decoder	 ERA-20CM (Jan 1900 - Dec 2010) Experimental ERA-40 (Sep 1957 - Aug 2002)
	EDA 15 / Jon 1070 Dog 1002)

Home Chart dashboard Contact

ERA-15 (Jan 1979 - Dec 1993) Observation Feedback

ERA-20C (Jan 1900 - Dec 2010) ISPD v2.2 ▶ ICOADS v2.5.1 with interpolated NOAA 20CR feedback

Multi-model

▶ S2S

► TIGGE TIGGE LAM

Atmospheric composition

- MACC Reanalysis
- CAMS Near-real-time
- CAMS Global Fire Assimilation System
- MACC GHG flux inversions
- CAMS GHG flux inversions

Copernicus Emergency Management Services

► GEFF Reanalysis (Fire) NEW

- Miscellaneous
- ► DEMETER Project

ENSEMBLES project



Data Services Challenges

Improve existing tools & offering new powerful interfaces to deal with the increasing number of users

Manage Dissemination

- Manage dissemination
- View requirements & submit change requests
- Future developments
- Jira Service Desk for Customer requests management
 - Quotes & Contracts
 - Questions & support
 - Change requests

Manage Dissemination via ECPDS

CECMWF ECM: ECMWF

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Advanced users can currently

- re-send files
- view their network configuration
- diagnose network issues

View requirements and submit change requests

CECMWF	C*1A: China										
Transmission	CHOS Home > Transn										
Data Transfers											
Destinations											
Transfer Hosts											
Transfer History											
Transfer Methods											
Transfer Modules											
CMA (Waiting)											
A Parameters											
A Bandwidth											
<u>Transfer</u>											
Timeline											
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History Metadata											
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A T 12-GWAVE	requirements to										
A C 00-GOPER	requirements.u										
A OO-GESMM	List of Stream(s										
A T 00-GWAEF	C1 C2	C3	C4	C5	C6	C7	C8	C9	T1	T2	T3
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A 00-GENFH											
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Advanced users can also

- validate requirement
- send their proposed changes to Data Services



Future developments

Key points of the new Product Requirement Web Application (PRWA)

- Plug into the new Catalogue Database
- Self-service approach
- Validation of requirements
- Volume calculation
- Advance text editing capabilities

In the future this will be extended to allow novice users to specify their requirements.

Total volumes: 163MB of which sent: 123MB Feed A1:T1 Test ✓ Destination A1 Feed A1F1 Feed A1F2 Feed A1:F2 Destination A2 OPER 12345 100MB ✓ PER 12345 22MB ✓ Destination A2 0 0KB ✓ Destination A3 BAR 0 0KB ✓ Destination A3 BAR 0 0KB ✓ Destination A3 Percent A1:F2 Concel Swap Request ✓ MARS Request Diff with ♥ ✓ Code Beautified Old Versions ØIS, PRICRITY = 10, STEPA = DA, TYPE = FC, TYPE = SFC, PARAM = 2D, TYPE = SFC, PARAM = 2D, STEP = 3/to/144/by/3 Image: Step = 3/to/144/by/3		Produc	t Reqs Web App	,		
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Data Services Challenges

Improve existing tools & offering new powerful interfaces to deal with the increasing number of users

- Manage Dissemination
 - Manage dissemination
 - View requirements & submit change requests
 - Future developments

Jira Service Desk for Customer requests management

- Quotes & Contracts
- Questions & support
- Change requests

Jira to support Customer requests management

Data Services has been using Jira for few years to manage customer requests.

We are now looking into leveraging the **Jira Service Desk (JSD)** and provide more self-service offering capabilities to our customers to deal with

- Quotes & Contracts
- Questions & support
- Product change requests

DE Issues	Filter: Not_Epic
la Reports	Chart
E Releases	This chart shows the number of issues created vs the number of issues resolved in the last 300 days.
Components	
Test sessions	800
PA	750
ROJECT SHORTCUTS	700
dd a link to useful information for our whole team to see.	650
	600
Add link	550
	500
	450
	400
	350
	300
	250
	200
	150
	100
	50

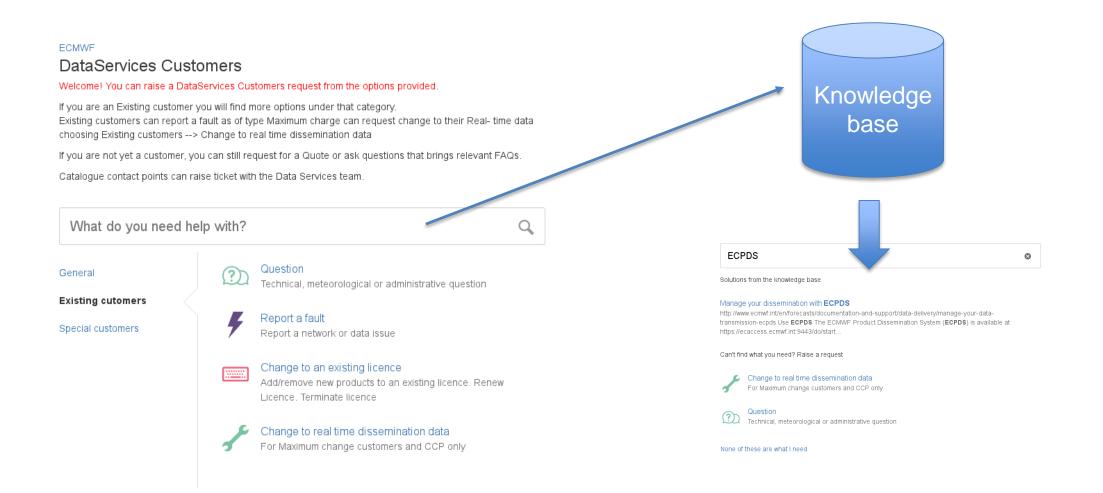
Current situation: Jira to support Customer requests management

Data Services has been using Jira for a few years to manage the increasing number of requests.



In the aim of managing the customer's requests better, Data Services is moving to JIRA Service Desk.

Jira Service Desk: a customer portal



EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS

Questions?



Thank you

