

Group 4

Technical and Data Services

User Voice Corner

Licensing & open data

- Licensing procedure is complex
 - New costing tool available: apps.ecmwf.int/shopping-cart/
- Products cost too much
 - Proposed change to price in 2021 and transition to open data by 2025
- Ecuador want more basic data for their SmartMet workstation
 - Contact data.services@ecmwf.int or use the link above to request data
- Open data (and a date for this)
 - Soon and in stages!
- One-off parameter downloads for real-time usage (e.g. demanded by forecast situation)
 - Not yet planned, but as moving to open data this will be possible

Licensing & open data – Feedback & Discussion

- **Question:** how to calculate the MaxCharge 100G cap with compression enabled? Is it the bytes transferred, or size of uncompressed files?
 - – Compressed, and only from the daily productions count towards that limit
- **Question:** Can you share more about the plan of transitioning to Open Data in the next few years?
 - It would be done in stages. We would start this year with the web charts this year, and mars archived data,(possibly under creative commons license, this year. All of this is pending ECMWF Council approval.
- **Feedback from Commercial customer:** nice experience with data services

MARS/download issues & Cloud

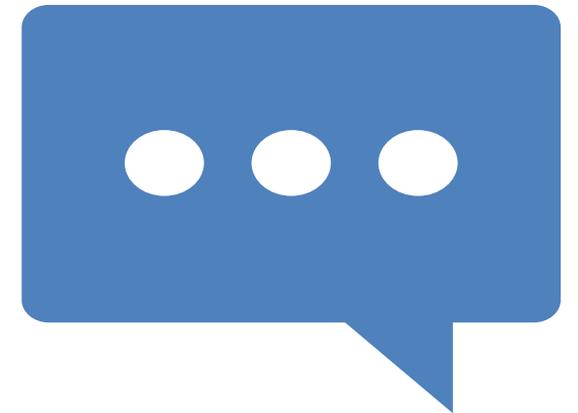
- MARS queues painfully slow (e.g. if user wants the vast amounts of data needed for calibration or machine learning)
 - Downloading is very slow
- File size download limit for the CDS is too small
 - CDS limit 175 Gbytes
 - WebAPI limit 30 Gbytes
- Cloud services wanted
 - European Weather Cloud is now in the pilot phase, only for selected Use cases from Member State users (non-commercial)

MARS/download issues & Cloud – Feedback & Discussion

- **Feedback:** MARS Web API service split for Member States and Customers
 - We've noticed a huge impact of the changes. Our one request went from 24 hours to 4 hours.
- **Feedback:** MARS reliability
 - Really impressed with reliability over the last year.
- **Feedback :** ASAP dissemination of products
 - We typically get data are random times from NCEP, CMC, and other national centres. No impact expected here. Delivery times from other centres can differ substantially, ranging from few minutes and more than an hour in some cases.
 - Other participants agreed.
- **Feedback :** European Weather Cloud
 - Interest from Commercial Customers to get on board. Asking when that would be possible and what were the plans. For now, as long as we are in the pilot phase and the operational model is to be defined, it can only be offered to Member State users purely for non-commercial activities.

Any other comments

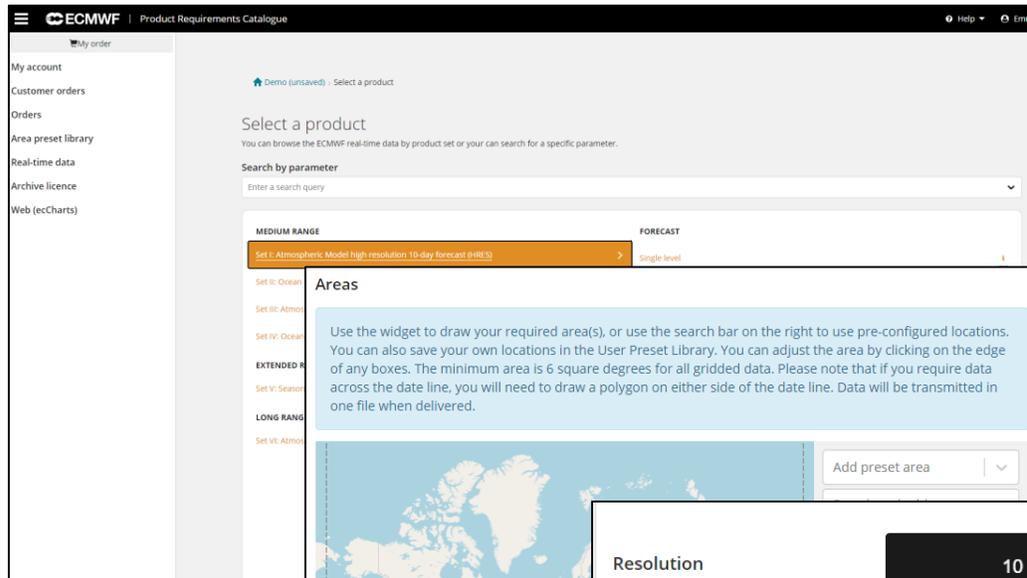
- Peak of attendees was at 14 people (counting in the 3 presenters).
- At least 6 were commercial customers.



Additional support slides

New costing tool to simplify process

- [Apps.ecmwf.int/shopping-cart/](https://apps.ecmwf.int/shopping-cart/)



Search by parameter and see which set it is in!

Draw your own areas & more than one at a time!

Parameters connected to parameter database to give descriptions!

Resolution

Grid options prefaced with 'O' will be otherwise specified. For more information...

- 10 metre U wind component (10U) ⓘ
- 10 metre V wind component (10V) ⓘ
- 10 metre wind gust in the last 3 hours ⓘ
- 10 metre wind gust in the last 6 hours ⓘ
- 10 metre wind gust since previous post-processing (10FG) ⓘ
- 100 metre U wind component (100U) ⓘ
- 100 metre V wind component (100V) ⓘ
- 2 metre dewpoint temperature (2D) ⓘ

Select...

[Show all parameters](#)

10 metre U wind component (10U)

This parameter is the eastward component of the 10m wind. It is the horizontal speed of air moving towards the east, at a height of ten metres above the surface of the Earth, in metres per second.

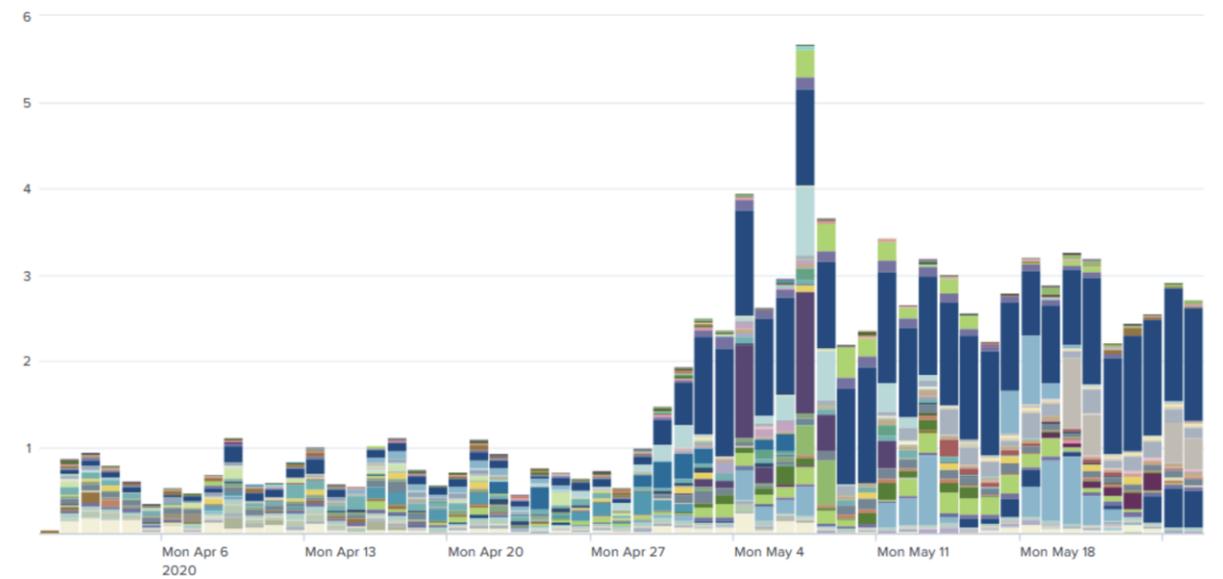
Care should be taken when comparing this parameter with observations, because wind observations vary on small space and time scales and are affected by the local terrain, vegetation and buildings that are represented only on average in the ECMWF Integrated Forecasting System.

This parameter can be combined with the V component of 10m wind to give the speed and direction of the horizontal 10m wind.

Services for users - data

- On 29 April 2020 a new setup for web access to the MARS access was implemented
- WebAPI service has been split into a public interface and a private one
 - ‘private’ for registered users from Member States and commercial customers
- Change was transparent to users
- Time it takes to process requests from private users is much improved
- Increased throughput for private users from an average daily 0.5 TB to an average of 2.5 TB

Distribution of elapsed times for private users for MARSOD requests (on the web)



Delivered volume (TB) per private users

MARS @ European Weather Cloud

- Pilot project providing Cloud computing for ECMWF and EUMETSAT Member States
 - Bring computing close to the data
- Native MARS Command line client with direct connection to:
 - FDB (Field Data Base) on HPCF, for real-time data
 - DHS, the ECMWF tape library, for archived data
- ECMWF account with data privileges required
 - Valid token must be configured

<https://confluence.ecmwf.int/display/EWCLLOUDKB/Configuring+MARS+access>

