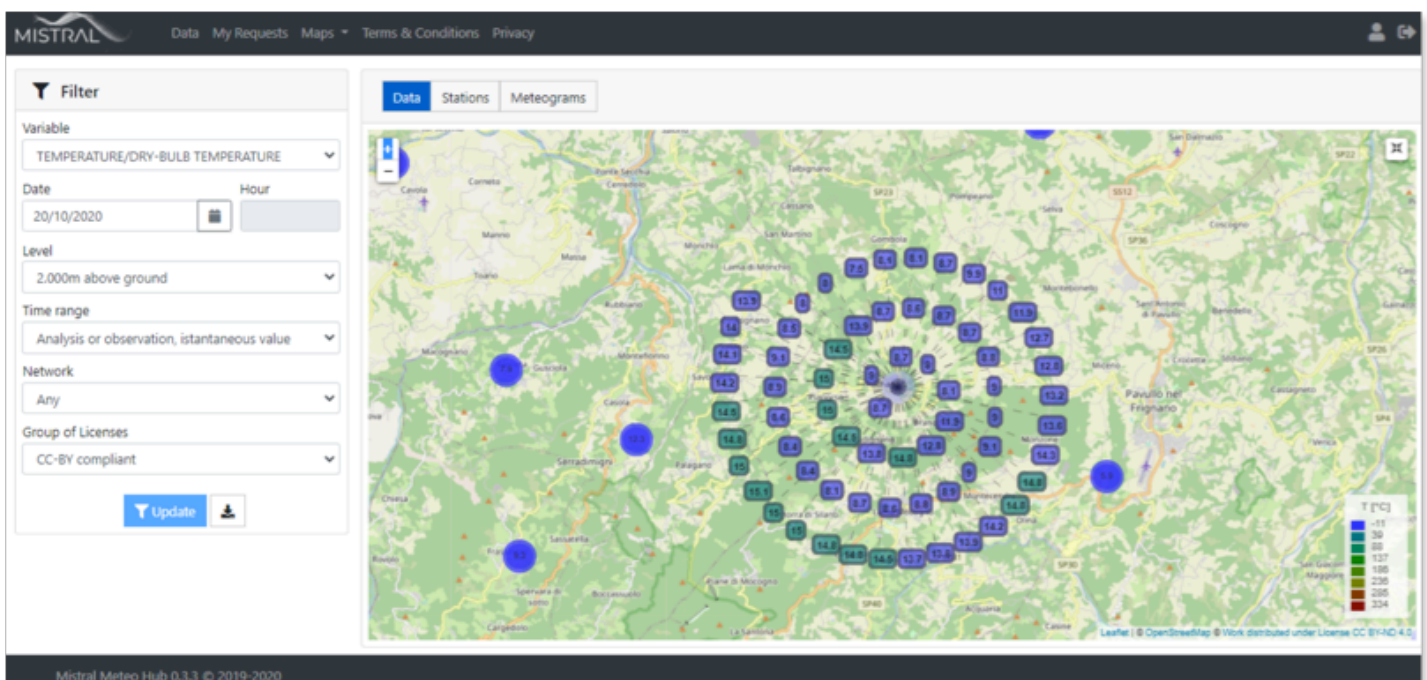


Cineca: started production of Mistral Meteo Hub 0.3.2

In July, the Mistral Meteo Hub 0.3.2 version was put into production with several **additional features** compared to those of the version presented with newsletter. **Postprocessing features** have been improved for data extraction, whilst **dynamic loading of filters** and interactive selection have been added.

In addition, user **query scheduling** has been added with different possibilities and management of **licenses and attribution** in the flow. Map views have been added for **observational data**. Here are some examples of temperature values for a day for a specific station:

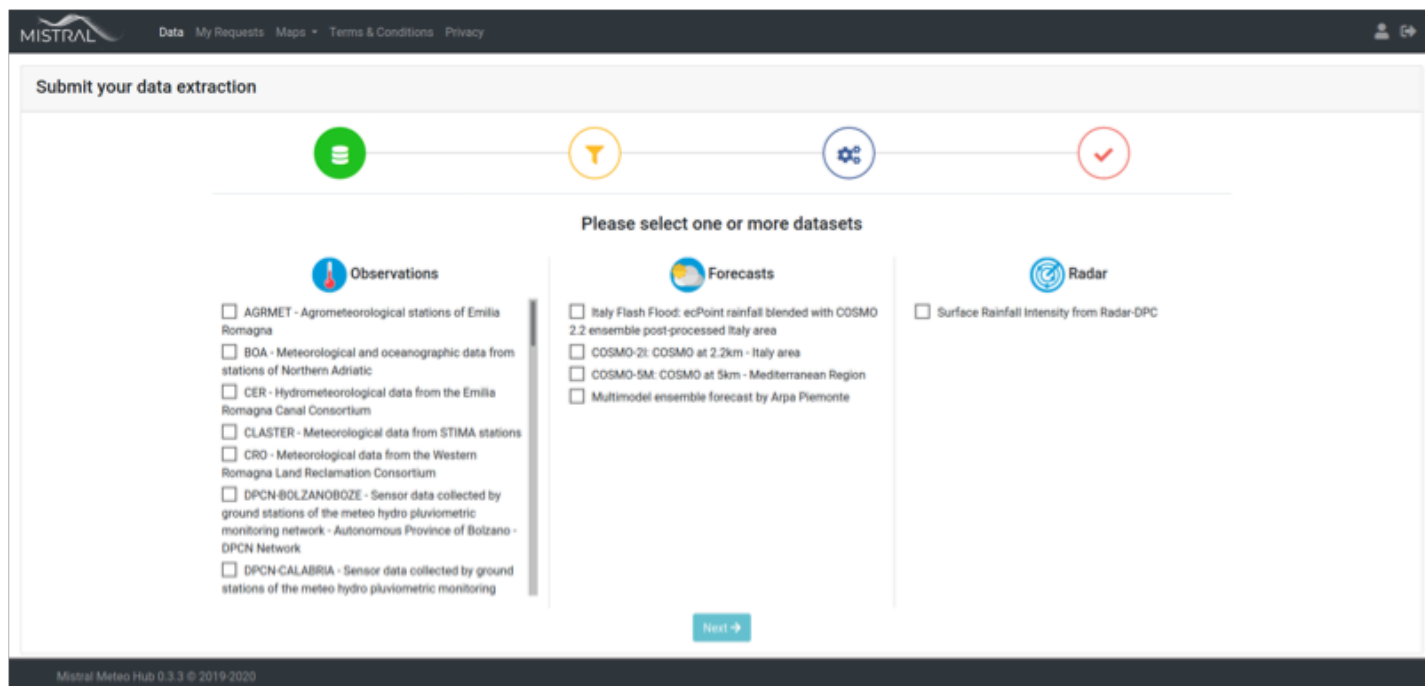


The screenshot displays the Mistral Meteo Hub interface. At the top, a dark navigation bar contains the 'MISTRAL' logo and links for 'Data', 'My Requests', 'Maps', 'Terms & Conditions', and 'Privacy'. On the right of this bar are user icons. A left sidebar features an 'Input Dataset' dropdown menu currently set to 'COSMO 5km', accompanied by a toggle switch. Below this are two vertical legends: 'Cloud [%]' with a scale from 50 to 100, and 'T [°C]' with a scale from -30 to 46. The main area is a map of Europe, color-coded to represent temperature and cloud cover data. Various countries are labeled, including Ireland, England, France, Germany, Poland, Czech Republic, Slovakia, Austria, Hungary, Romania, Bulgaria, Italy, Spain, and others. A bottom status bar shows the timestamp '2020-10-20T21:00:00.000Z' and a scale indicator '4fps'. The footer text reads 'Mistral Meteo Hub 0.3.2 © 2019-2020'.

Data flow from DPCN to Mistral

The organization of the ground station **data flow from DPCN to Mistral** has been completed. Many contacts have been made with Functional Centres, Arpa and Regional Civil Protection, obtaining, in the last quarter, **new formal agreements** to the agreement from the regions of **Veneto, Sicily, Sardinia, Umbria, Liguria,**

Marche and Bolzano Province. These entities are added to Campania, Calabria, Emilia Romagna, Lazio and Piedmont, which had already joined. The DPC has been responsible for integrating the data stream with the new added regions on a case-case basis.



The screenshot shows the 'Submit your data extraction' page on the Mistral Meteo Hub. The page features a progress bar at the top with four steps: 1. Data selection (active), 2. Data processing, 3. Data storage, and 4. Data delivery. Below the progress bar, the user is prompted to 'Please select one or more datasets'. There are three main categories of data selection: Observations, Forecasts, and Radar. Each category has a list of datasets with checkboxes for selection.

Observations

- ☐ AGRMET - Agrometeorological stations of Emilia Romagna
- ☐ BOA - Meteorological and oceanographic data from stations of Northern Adriatic
- ☐ CER - Hydrometeorological data from the Emilia Romagna Canal Consortium
- ☐ CLASTER - Meteorological data from STIMA stations
- ☐ CRO - Meteorological data from the Western Romagna Land Reclamation Consortium
- ☐ DPCN-BOLZANOBOZE - Sensor data collected by ground stations of the meteo hydro pluviometric monitoring network - Autonomous Province of Bolzano - DPCN Network
- ☐ DPCN-CALABRIA - Sensor data collected by ground stations of the meteo hydro pluviometric monitoring

Forecasts

- ☐ Italy Flash Flood: ecPoint rainfall blended with COSMO 2.2 ensemble post-processed Italy area
- ☐ COSMO-2t: COSMO at 2.2km - Italy area
- ☐ COSMO-5M: COSMO at 5km - Mediterranean Region
- ☐ Multimodel ensemble forecast by Arpa Piemonte

Radar

- ☐ Surface Rainfall Intensity from Radar-DPC

Next →

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Data selection page on Mistral Meteo Hub

Completion of the Mistral catalogue

The Mistral catalogue of **open data implemented with CKAN** and put into **online** production has been completed, resulting in the acquisition of the open resources **index by the data. gov. it catalog and the European catalog.**

Agreement signed with Meteonetwork

An **agreement with Meteonetwork**, an amateur organization with an important network of measuring stations, has been started. Data from the Meteonetwork **ground stations** will be available soon for the same regions that have authorized the integration of their data.

End of Mistral project postponed until January 2021

Because of the difficult situation due to the Covid-19 pandemic, Mistral obtained from INEA an **extension of the project until 31 January 2021**

DPCN and CIMA commitments

The commitment of the National Civil Protection Department continues: in addition to intense activity **to stimulate the regions and the autonomous provinces** to sign **agreements for the sharing of meteorological observation data** in the Mistral portal, the **CIMA Foundation is now willing to share with the project** all outputs of the called **WRF**.

Dedagroup presents Mistral to Trentino Digitale, Meteo Trentino, ACI Informatica and to SIAG, Società Informatica Alto Adige

The Mistral project and its potential were demonstrated by **Dedagroup Public Services** to a number of interested parties. In particular, we would highlight the appointment of 25 March 2020 with **Trentino Digitale and Meteo Trentino**, during which the project and the services available were explained. In fact, Dedagroup PS has historically collaborated with various stakeholders in Trentino and in particular this presentation was created within the framework of **professional GIS services** that are provided together with other partners. **ACI Informatica** has also expressed an interest in the Mistral project and the services developed in this context. For this reason, a brainstorming session was organised on 25 May 2020, **aimed in particular at evaluating the possibility of identifying value-added services for travellers**, starting from an integration with the data made

available by Mistral. Finally, on August 5, 2020, the project was presented to **SIAG – Informatica Alto Adige**, another historical interlocutor of Dedagroup Public Services, the application areas of **Agriculture and Forestry Information System**. In this case, the objective of the in-depth meeting was to verify the possibilities of integration with other information systems and services provided by SIAG. These meetings demonstrate the



potential and very broad **cross-sectional interest** in weather data and related services.