



Meteo Italian Supercomputing poRtAL

# Deliverable 1.5

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## Data Management Plan

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## Document Control Page

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Creator	CINECA
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Contributors	Cinzia Caroli (CINECA), Davide Cesari (ARPAE), Martina Forconi (Dedagroup), Gabriella Scipione (CINECA)
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### Introduction

The Data Management Plan defines the strategy that the consortium will follow for managing weather data stored in the Mistral system.

The strategy has been defined in this deliverable through a form sheet that collects information about each dataset: the type and origin of data, the data licence and the approach to archival and preservation.

For each dataset included in the Mistral catalogue, the form will be filled with the related information and archived in the Mistral system.

Some of the information required by the form is based on policies that are under development by the partners:

- the Data licence for observational and forecast data is under definition by ARPAE (with legal advice) and by DPC
- the Data archiving and preservation rules will be the result of the Mistral system architecture definition and of the business plan definition.

## 1. Template of Mistral dataset form

The following form is the template that will be use to collect the information for each dataset:

<b>Dataset name</b>	A title that briefly identifies the dataset
<b>Dataset id</b>	Every dataset will have a unique identifier assigned by Mistral
<b>Data type</b>	The type of dataset: <ul style="list-style-type: none"> <li>• Observational data</li> <li>• Analysis and forecast data</li> <li>• Radar products</li> </ul>
<b>Data archiving and preservation</b>	<ul style="list-style-type: none"> <li>• How data will be stored during the project lifetime: should the data be accessible in real time to final users, which is the length of the past record of data that should be retained in the archive</li> <li>• What happens to data after the end of the Mistral project (September 2020)</li> </ul>
<b>Data owner/provider</b>	The data owner and/or the data provider
<b>Information filled by the data owner/provider</b>	
<b>Data manager</b>	Who is in charge to manage operationally the data
<b>Referent</b>	The contact of person that is the referent
<b>Data origin</b>	<p>The source of the data.</p> <p>For observational datasets is the station type and number. For example: DPC radar network, ARPAE-SIMC hydrometeorological station network.</p> <p>For forecast datasets, it could be the model that produces the dataset, e.g.: LAMI COSMO-5M</p>
<b>Description</b>	A short description of the content of the data
<b>Spatial extent</b>	GeoJSON geometry to make a dataset searchable by location (see <a href="https://docs.ckan.org/projects/ckanext-spatial/en/latest/spatial-search.html#geo-indexing-your-datasets">https://docs.ckan.org/projects/ckanext-spatial/en/latest/spatial-search.html#geo-indexing-your-datasets</a> )
<b>Data licence</b>	Under what licence conditions the data are available to final users
<b>Temporal coverage</b>	Period covered by the dataset in Mistral
<b>Physical characteristics</b>	The physical characteristics included in the dataset

<b>Data input format</b>	The format of the data in input to Mistral (ex: BUFR, GRIB, Shape file, HDF5/Geo, ...) and optionally the standard template to which the data conforms to.
<b>Update frequency</b> (Report frequency)	Time frequency of update
<b>Real time availability</b>	Which is the delay between observation/analysis time (or forecast reference time for forecast data) and the time of availability of data to Mistral?
<b>Data quality control availability</b> (only for observed data)	Will the data provider resend the data to Mistral after applying a quality control procedure, and with which delay?
<b>Increase of dataset size per month</b>	Estimate of the amount of data added by month. <b>IMPORTANT:</b> Mistral storage needs will be based on this information.