

## Task's activities



METEO  
IMGW-PIB  
meteo.imgw.pl

### Task 2 Information of the ensemble models planned for the verification (provided):

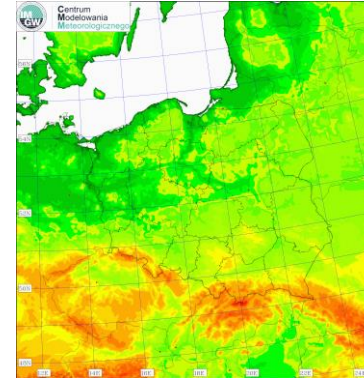
Name: TLE-MVE (Time-Lagged Ensemble/Model-Varied Ensemble)

The number of members: 20

IC/BC: COSMOPL 7km

Geographical coordinates of the domain:

lower left	10.963	47.596
upper left	11.205	57.695
lower right	24.810	46.597
upper right	28.376	56.454



Q: Are you planning to use the verification suite MEC/FFV2 on COSMO-LEPS or are you planning to validate other ensemble models integrated at your institution?

A: @ IMGW-PIB we will validate COSMO TLE\_MVE

### Task 2.4 Scripts to produce verification scores for EPS forecasts available to project participants through the common WG5 repository

Templates downloaded from ftp server (193.26.129.30) where all the feedback files are uploaded for the Common Plot activities, in the path /CP\_SRC

```
-rw-r--r-- 1 1001 ftpgroup 47209043 May 17 2021 COMMON_PLOT_MEC_TEMPLATE_v3.tar.gz  
-rw-r--r-- 1 1001 ftpgroup 13996412279 Jun 17 2024 LEPS_TEMPLATE.tar.gz  
-rw-r--r-- 1 1001 ftpgroup 10049196 Jun 17 2024 LEPS_TEMPLATE_no_data.tar.gz
```

Templates archive contains model data of COSMO-LEPS for 2023/08/12, observations, one shell script and a README, 2 constant files, and the folder structure

Model data includes the 20 members of COSMO-LEPS for the Romanian domain at 7 km resolution

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### Task 3.1 Installation and adaptation of MEC-Rfdbk system for EPS over national domains by all participants

- Dace-code downloaded from DKRZ and installed according to guidelines.

However, "For newer MEC versions, **datools** development has been moved to its own repository and the folder/functionality **datools/** will be removed from dace\_code"

There is no information in guidelines where the current **datools** are available.

The following information was provided by Anlauf Harlad:

When dace\_datools was separated from dace\_code, its new location was added to the top-level **README:**  
[git@gitlab.dkrz.de:dace/dace\\_datools.git](https://gitlab.dkrz.de/dace/dace_datools.git)

- Installing RfdBK (ongoing)

### Work pending:

- Production of FF and Rdata statistical files for seasonal test periods.
- Visualisation through COSMO Shiny web server or national web servers.



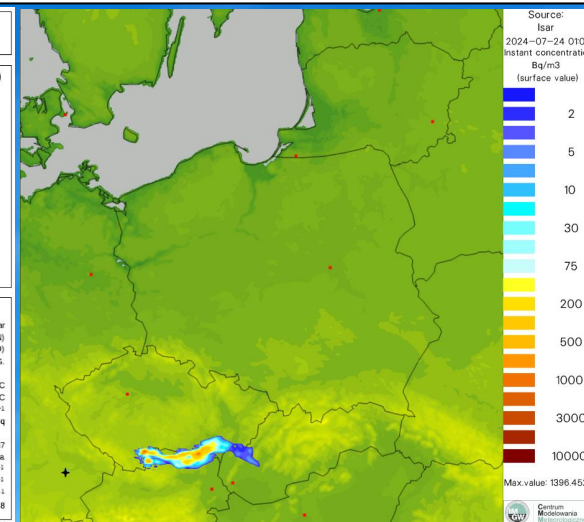
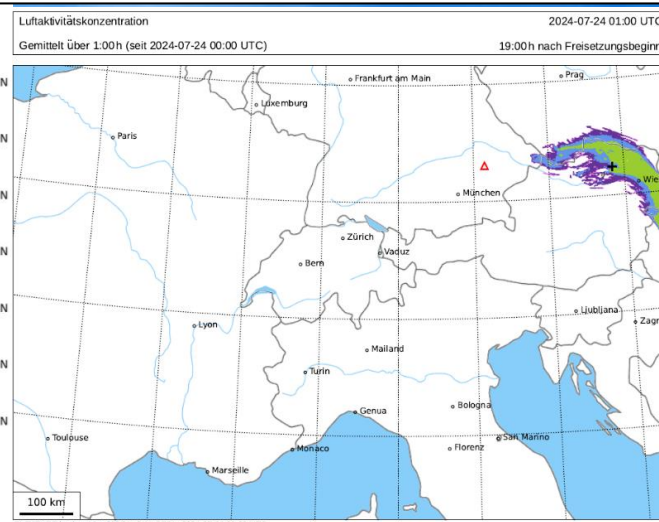
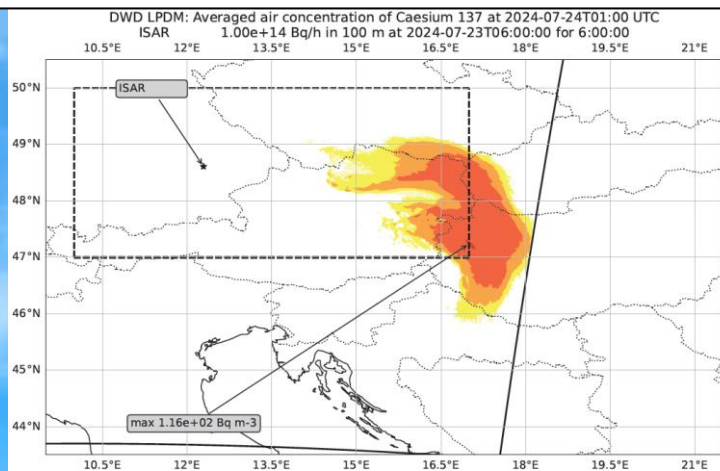
EGALITE – to be ended shortly (continuation?)

Suggestions for future PP/PTs and other possible activities

# Running/finished PP/PTs

PT EGALITE - Early warninG and AnaLylsIs sysTEM for release and dispersion of contaminants.

The setup of "dry run" for release of radioactive material from NPP of Isar, Germany – location in domains



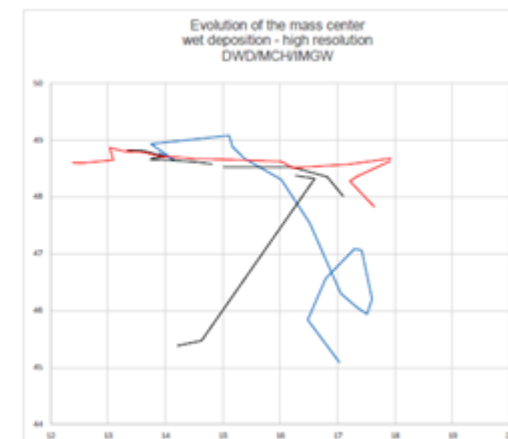
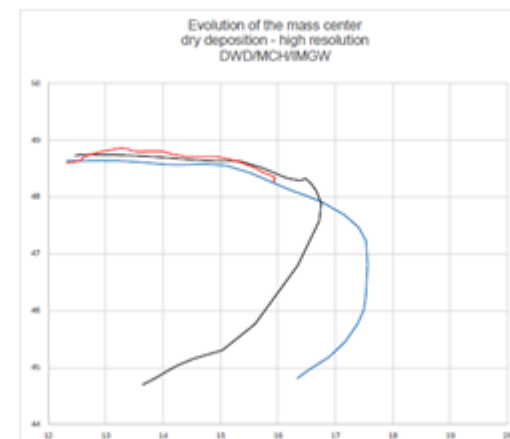
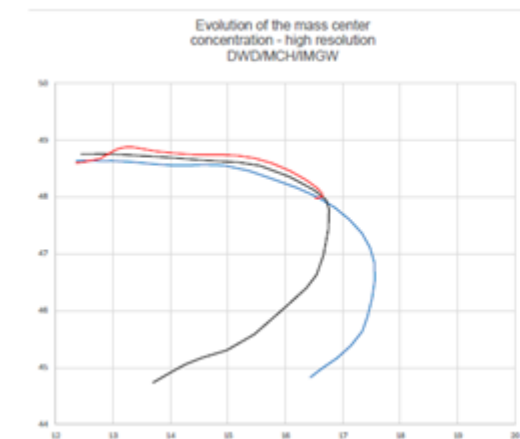
$$x_{cm} = \frac{\sum_{i=1}^N m_i x_i}{M} \quad y_{cm} = \frac{\sum_{i=1}^N m_i y_i}{M}$$

$x_{cm}$ ,  $y_{cm}$ : coordinates of center of mass

$M$  – total mass in the system

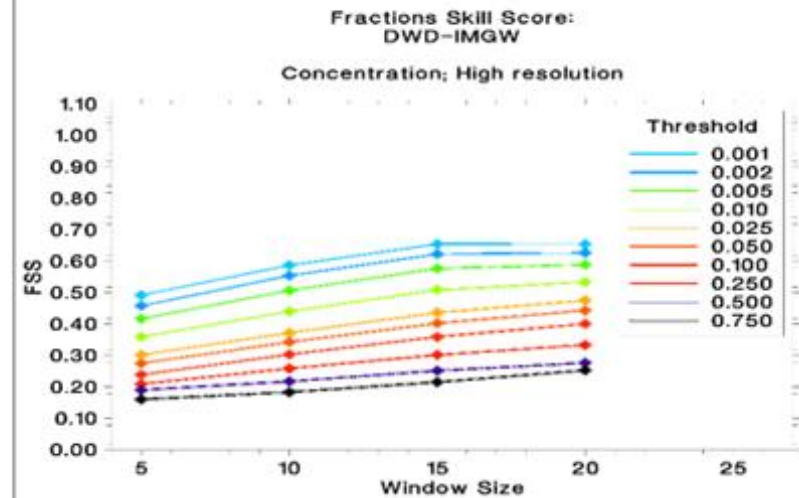
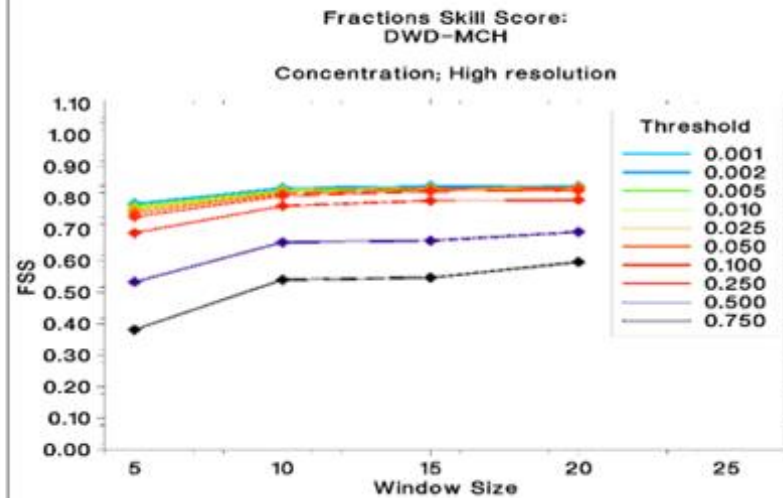
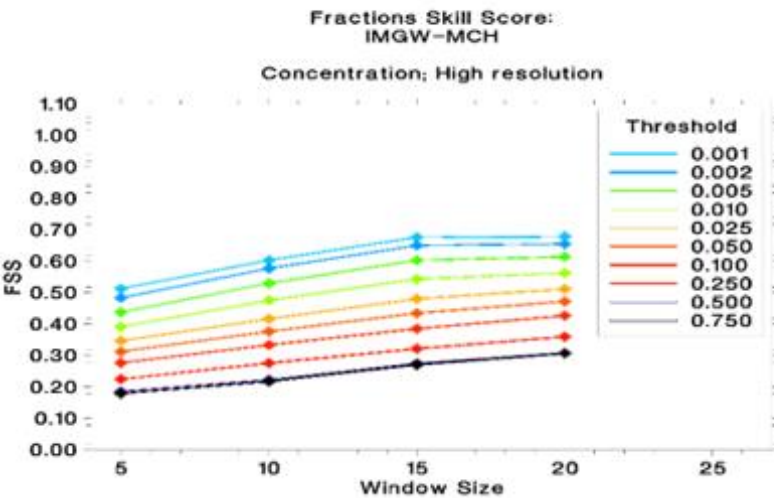
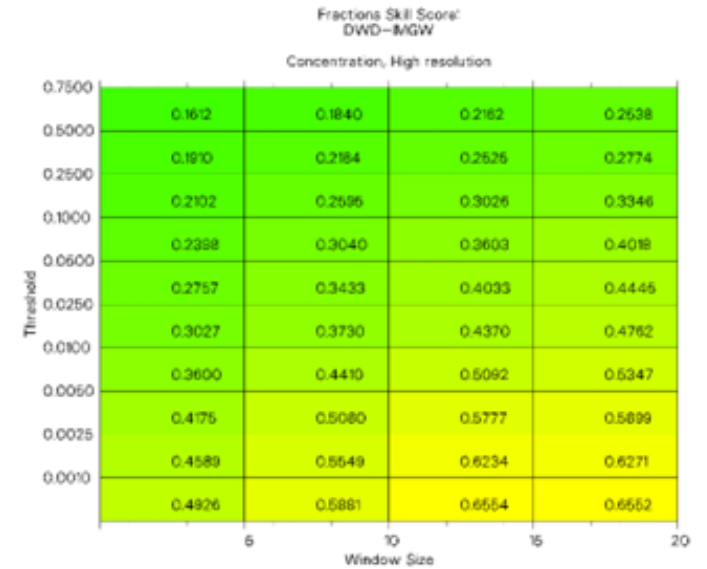
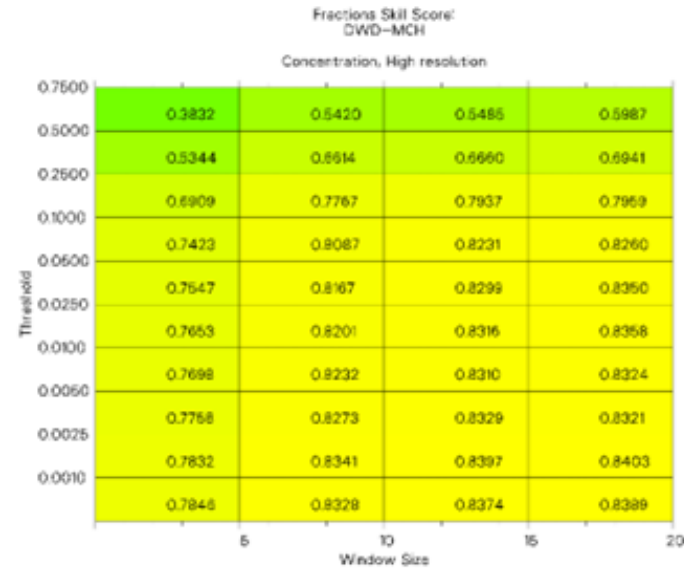
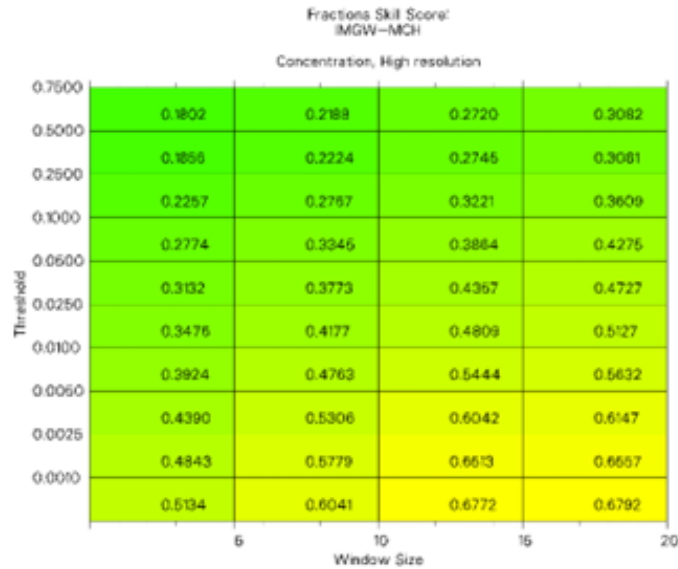
$m_i x_i$  – moments of individual masses (x)

$m_i y_i$  – moments of individual masses (y)





# PT EGALITE - Early warninG and AnaLyls sysTEM for release and dispersion of contaminants.



Relative FSS



Extension of (new PT/PP based on results of) PT EGALITE –  
an idea of "mutual help in case of problems" (preliminary approach)

Methodology for determining the Most Unfavorable Meteorological Conditions  
(MUMC) for the needs of locating NPP.

Specific meteorological data for General Aviation ("Small Aviation") – a reminder

Lightning (flashrate) forecasts

Applications for renewable energy sources