Meta data description for RCM model simulations in ENSEMLES RT3

ERA40@50 Simulations

1. General:

1.1 Name of model: ALADIN-CLIMATE/Prague

1.2 Version: CY28t3

1. 3 Reference: N/A

1.4 URL: http://www.cnrm.meteo.fr/aladin

2. Model setup:

2.1 Grid specifications:
2.1.1 Projection tangent Lambert; (latitude 50.4°N, longitude 11.5°E)

2.1.2 Number of horizontal grid points: (111 x 100 points) (LAT x LON)

2.1.3 Number vertical levels: 27

2.1.4 Type of vertical coordinate: η (eta)

2.2 Soil and surface specifications
2.2.1 Name of soil and SVAT model: Interaction Soil Atmosphere Biosphere (ISBA)

2.2.2 Physiographical data

Name, source, figure

Orography: GLOBE (NOAA/NGDC data at 1 km resolution)
LSM: US Navy data (10' resolution)
LAI, Soil: Internal ALADIN NWP dataset

2.3 External Forcings:

Equivalent CO_2 historical concentrations – monthly update
Solar constant being kept constant during model integration.

4. Additional information on model set up

Monthly update of sea-ice and SST, from ERA40 data. This is technical feature given by the model internal structure.

5. Information on the performance

Tends to be too wet over Western Europe especially in winter, some negative T2m bias still persists in winter/spring season.

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