

Plenary discussion

OBSERVATIONAL DATASETS AND EXPERIMENTAL SETUP

- 1. Validation regions**
- 2. Predictor datasets**
- (→) 3. Data formats**
- 4. Pseudo reality**

Gridded data: Details and availability

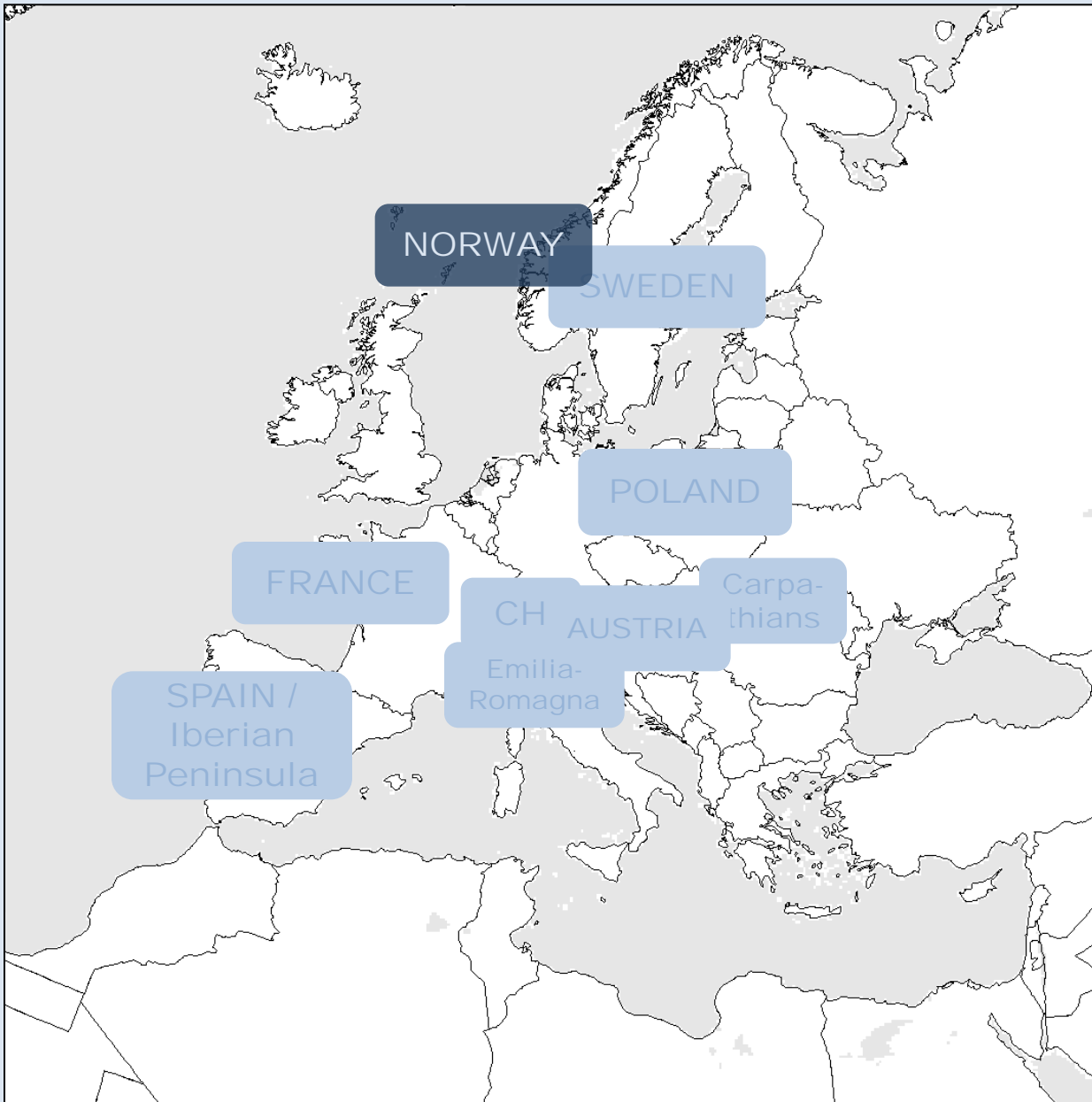


Gridded data: Details and availability



NORWAY

- *seNorge.no 1.1*
- Daily T_{mean} , daily P
- 1 km x 1 km
- 1957 – present
- License agreement
- Publicly available if regridded
- Station data available, at least from ECA&D



Gridded data: Details and availability



SWEDEN

- *PTHBV*
- Daily T_{mean} , daily P
- 4 km x 4 km
- 1961 – present
- License agreement
- Spatially degraded 0.11° and 0.44° dataset publicly available, but from SMHI website (*obs4cordex* effort)
- Station data available, at least from ECA&D



Gridded data: Details and availability



POLAND

- Daily T_{mean} , daily T_{max} , daily T_{min} , daily P
- 0.11° Euro-CORDEX grid
- ERA-Interim period (1979 - present)
- License agreement, VALUE-internal use only
- Station series can also be provided

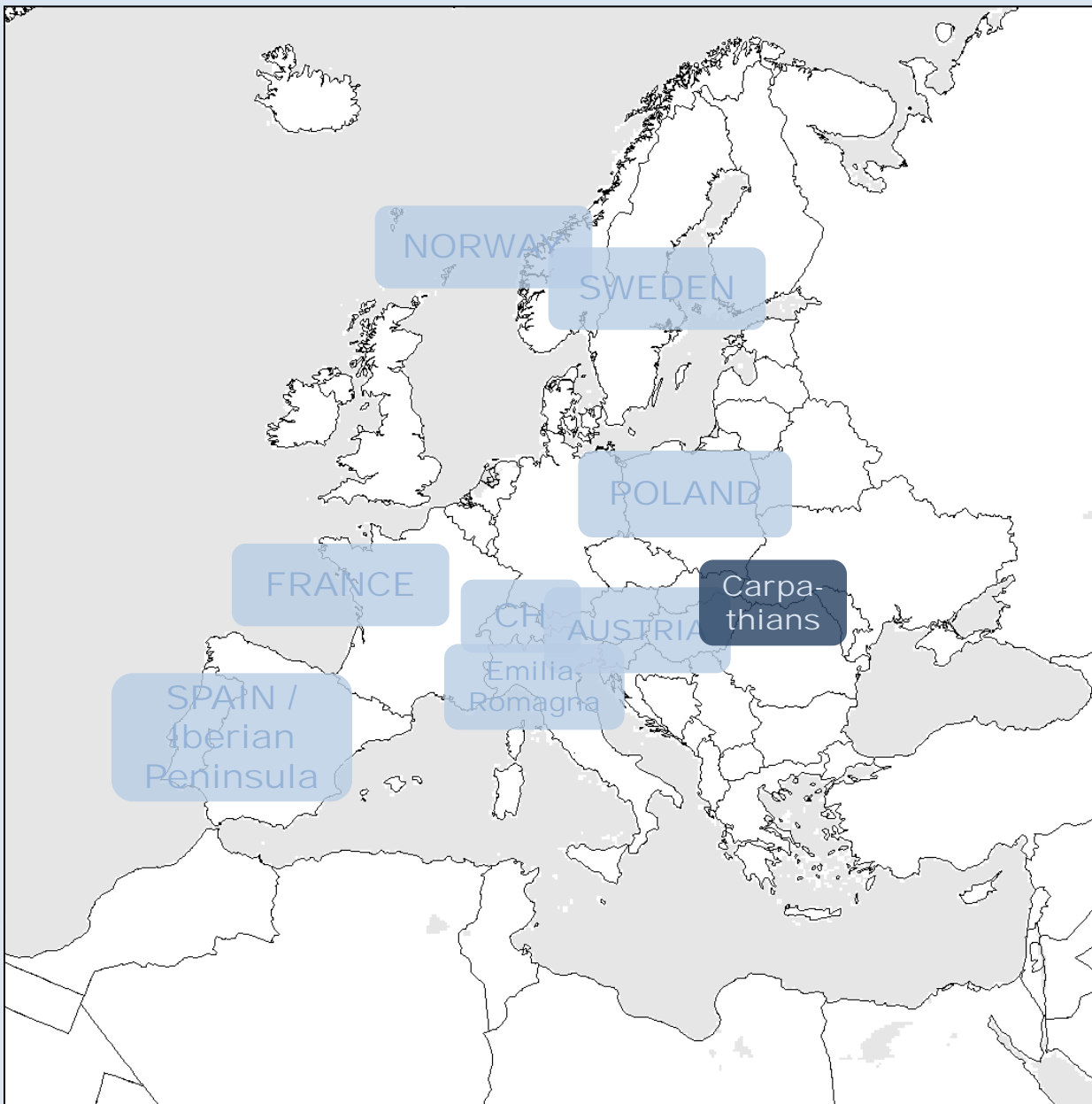


Gridded data: Details and availability



CARPATHIANS

- *CARPATCLIM*
- Daily T_{mean} , daily T_{min} , daily T_{max} , daily P , ...
- 0.1°
- 1961 - 2010
- Maybe publicly available from project webserver, but not definite
- Does not yet exist...

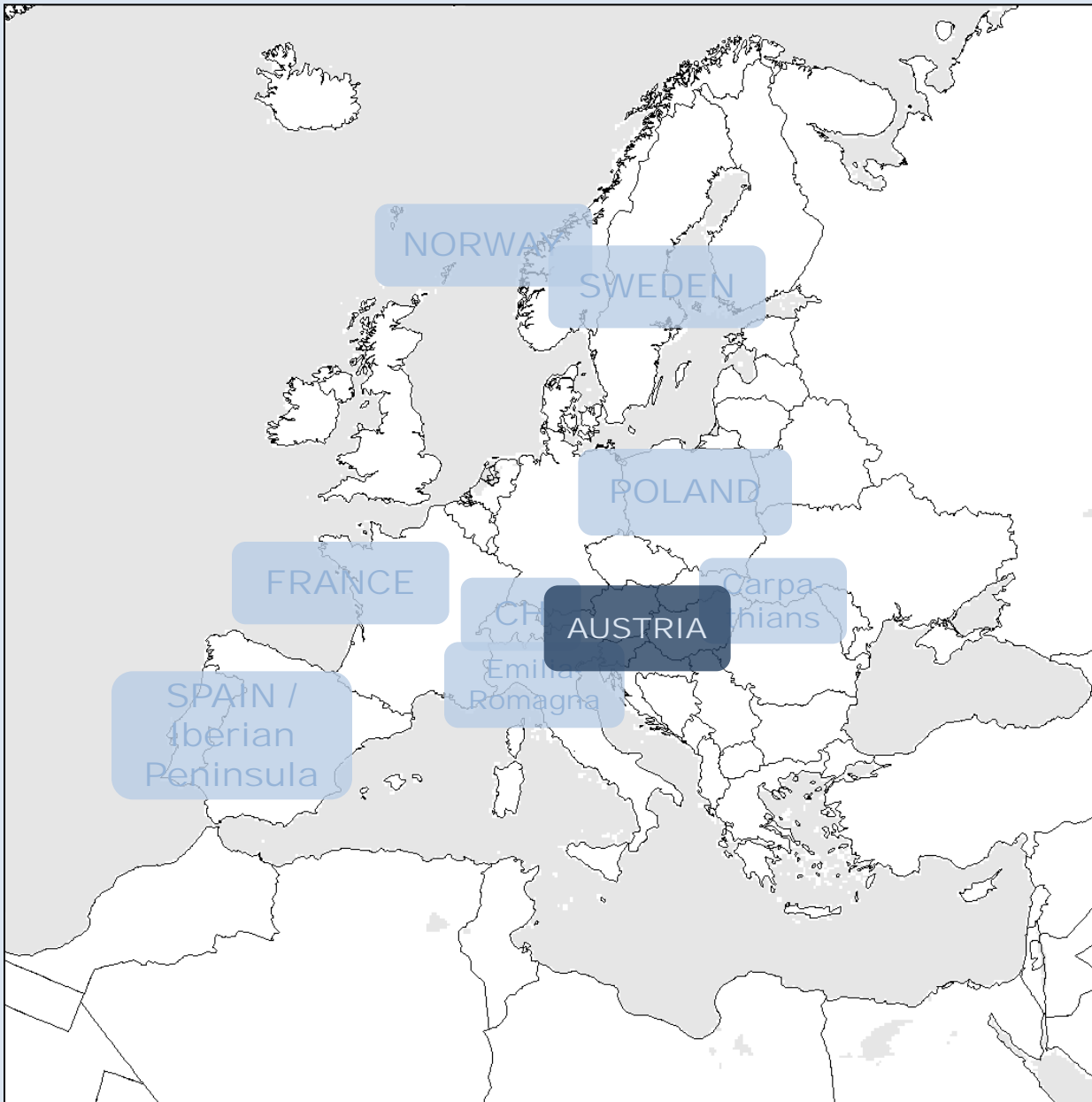


Gridded data: Details and availability



AUSTRIA

- *StartClim Grid*
- Daily T_{mean} , daily P
- 1 km x 1 km
- 1950 – 2007 (extension might be possible)
- Further parameters maybe possible on 4 km grid
- Publicly available, but password-protected access required
- Regridded version probably publicly available without restrictions
- Station data available, also from ECA&D

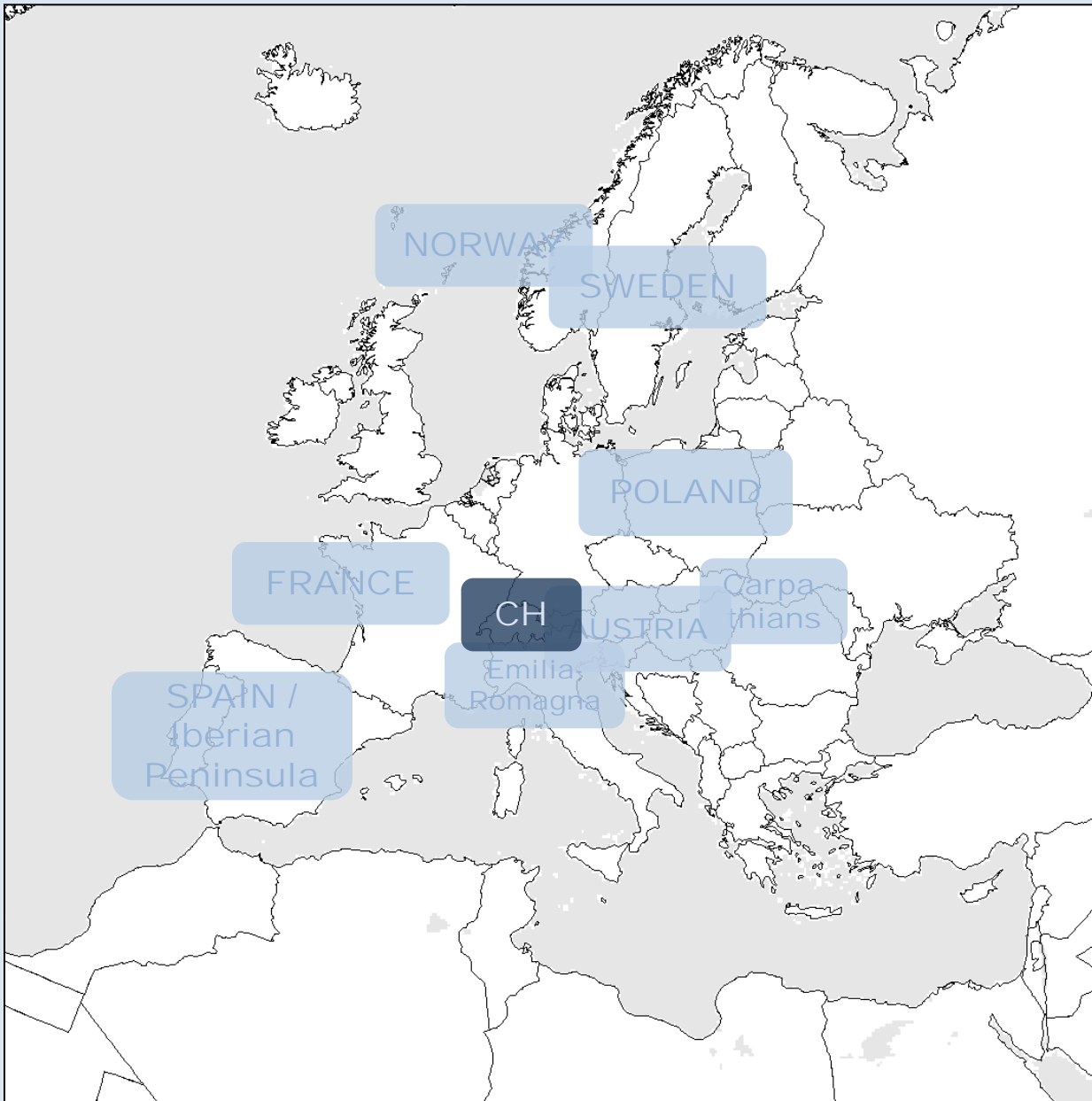


Gridded data: Details and availability



SWITZERLAND

- T_{absD} , T_{minD} , T_{maxD} , R_{hiresD}
- Daily T_{mean} , daily T_{min} , daily T_{max} , daily P
- 2 km x 2 km
- 1961/1971 - 2011
- Hourly P: 2003 - 2010
- reISD and G available on 2km grid for sub-periods
- Available for research, but password-protected access required
- Conditions also apply for regridded version
- Same for stations
- Several long sub-daily station series

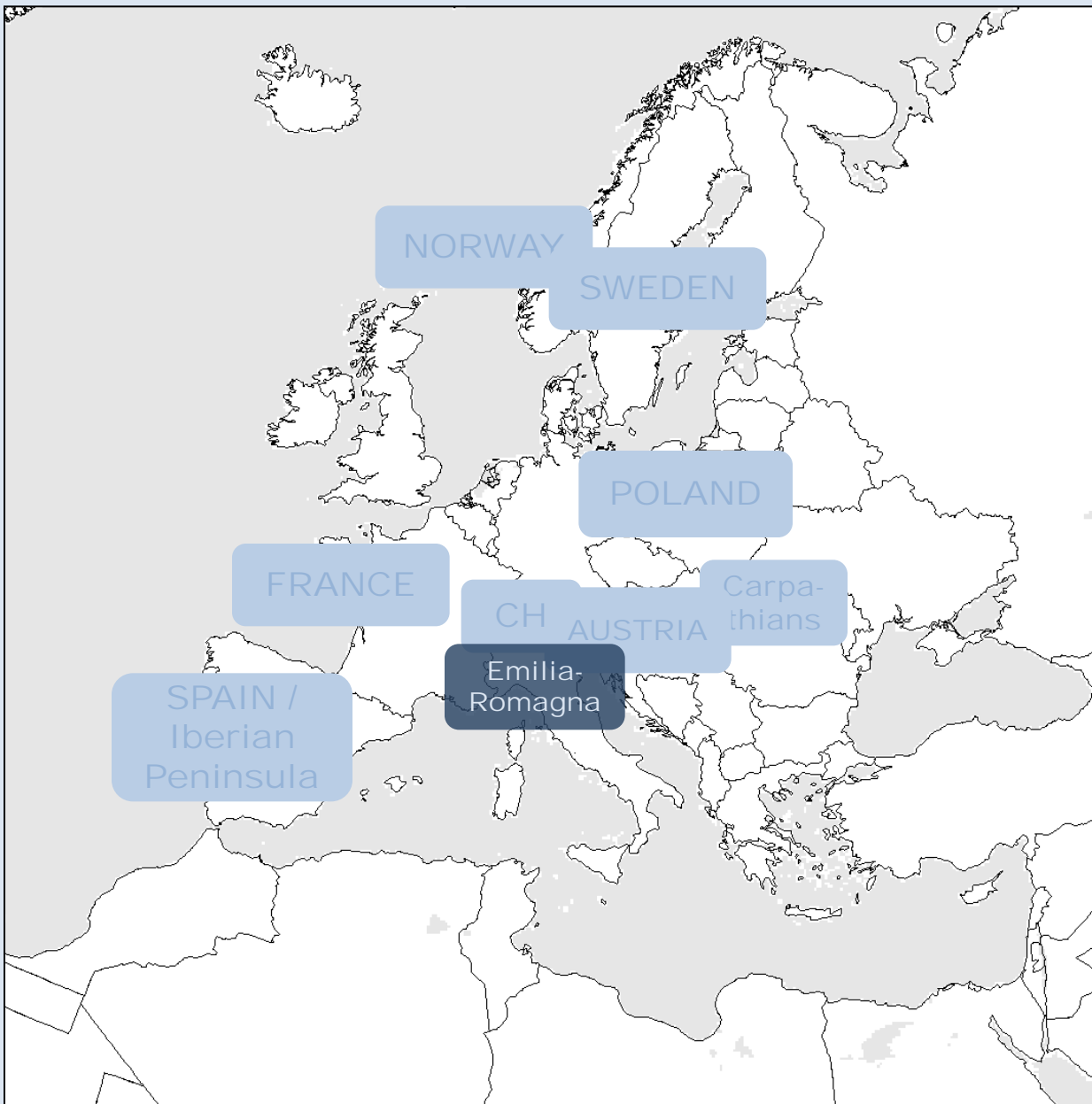


Gridded data: Details and availability



Emilia-Romagna

- *ERACLITO*
- Daily T_{\min} , daily T_{\max} , daily P
- Several spatial resolutions, 0.11° could be generated by July 2013
- 1961 - 2010
- Hourly T, P on 5 km: 2001 - 2010
- Publicly available
- Station series could also be provided

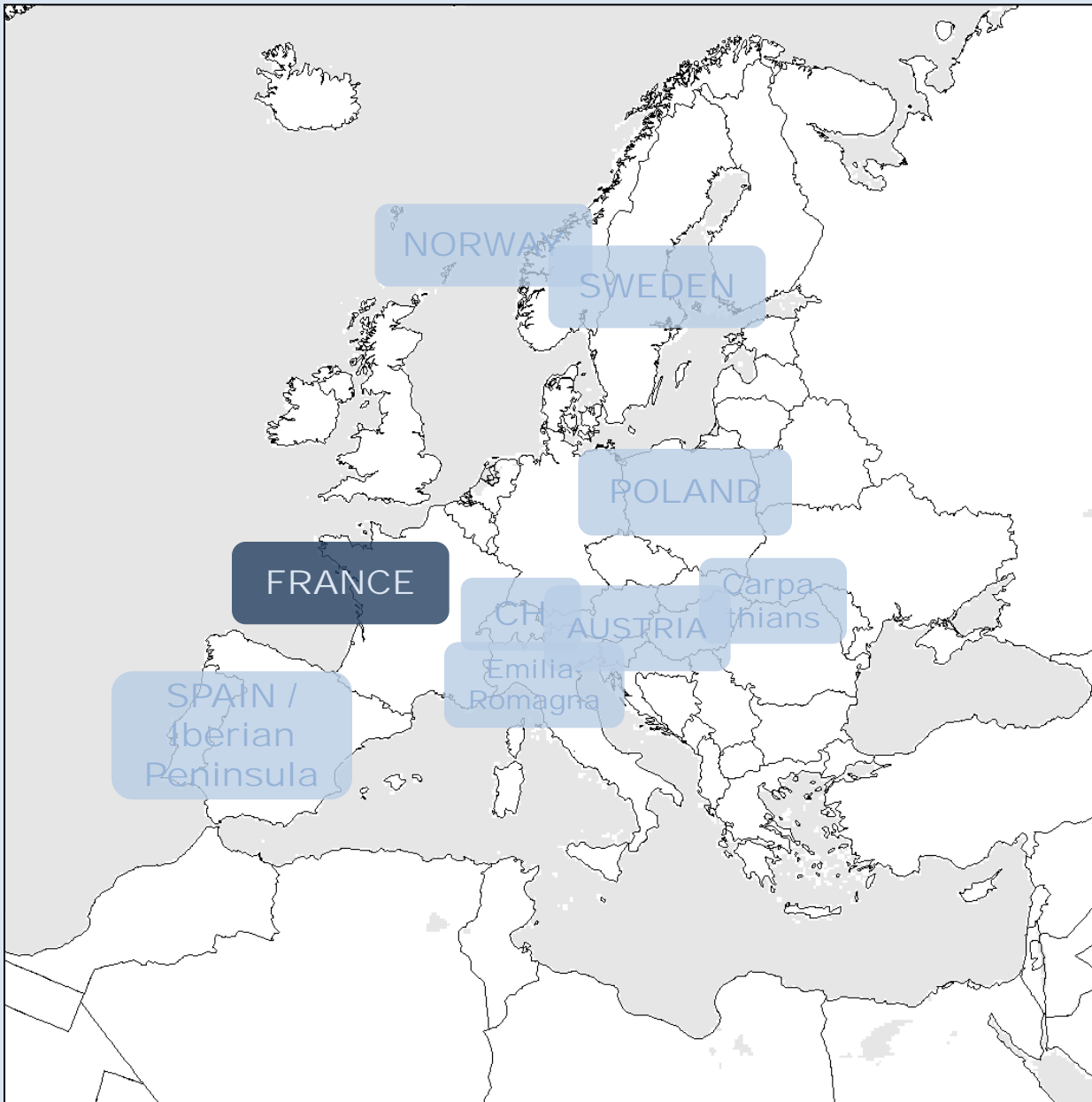


Gridded data: Details and availability



FRANCE

- *SAFRAN*
- Daily and hourly T_{mean} , P , ...
- 8 km x 8 km
- 1958 - 2010
- Daily T_{mean} and daily P could be provided on 0.11° grid, publicly available from Meteo France portal / ftp site
- Stations from ECA&D at least

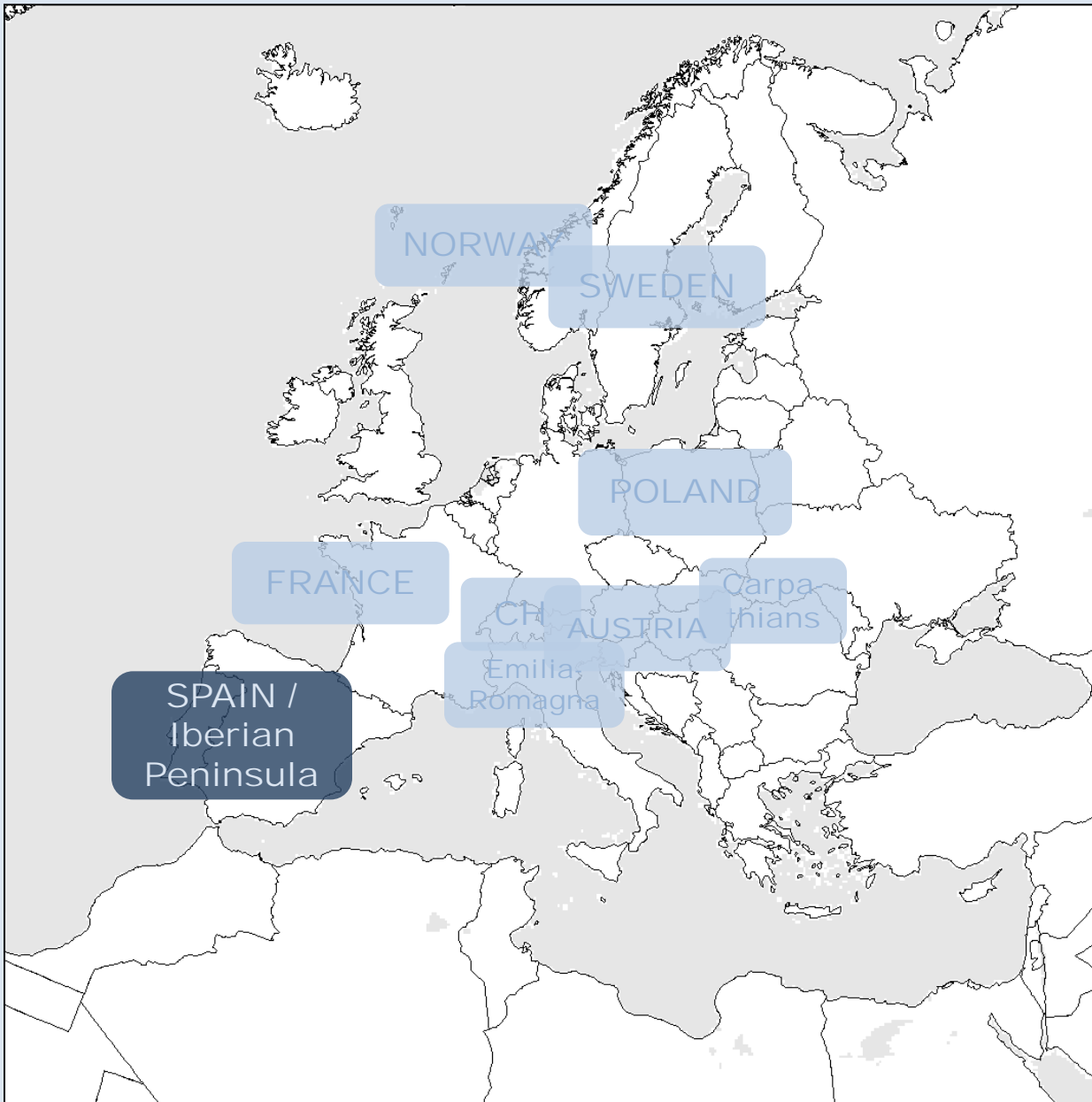


Gridded data: Details and availability



SPAIN

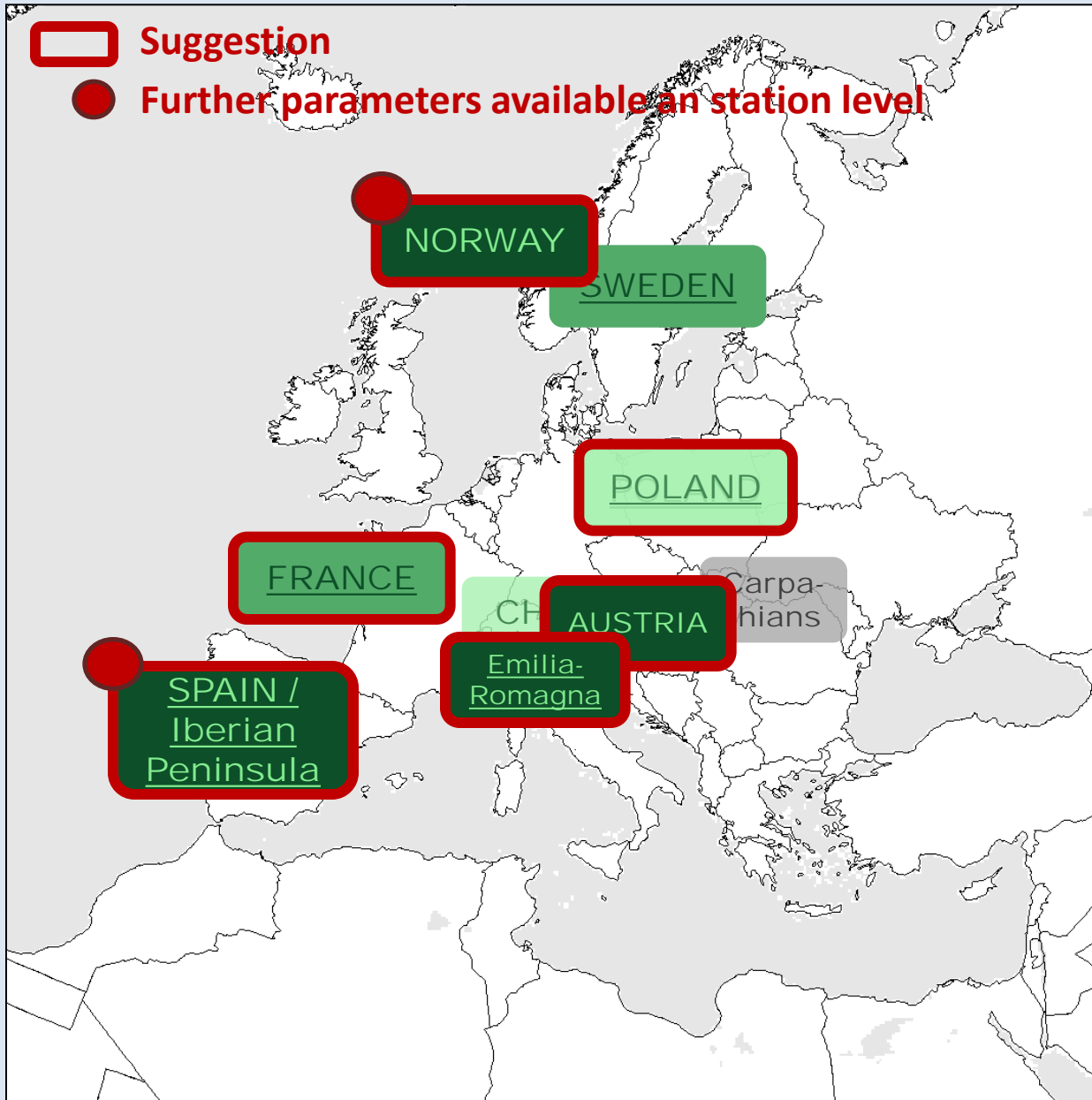
- *Spain02*
- Daily T_{\min} , daily T_{\max} , daily P
- 0.2°, 0.11°, 0.22°, 0.44°
- 1950 – 2008
- *IB02*: Daily P only
- publicly available
- Station series could be provided, plus ECA&D



Gridded data: Details and availability



-  Suggestion
-  Further parameters available at station level



Grid box values represent true areal averages in most cases

Not yet clear for Carpathians, Poland, Sweden

Regridded version publicly available from VALUE server, 0.11° grid provided

Regridded version publicly available from different host, 0.11° grid provided

Regridded version publicly available, but password-protected, 0.11° grid provided

Status not clear

ECA&D data availability



HU: 275 SS: 268
Relative humidity Sunshine
NOT SHOWN

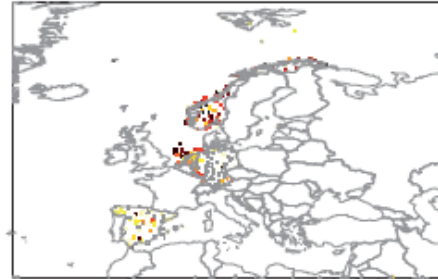
DD: 205
Wind direction



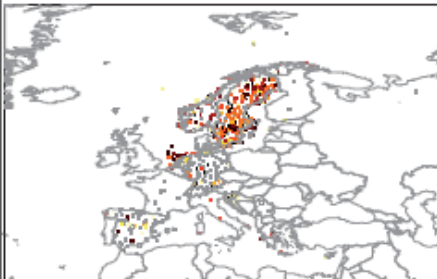
FG: 304
Daily mean wind speed



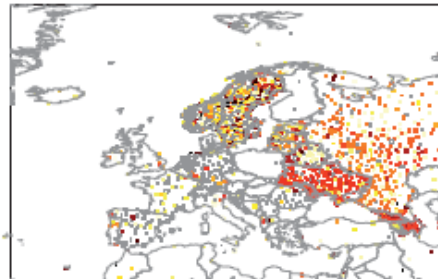
FX: 219
Daily maximum wind speed



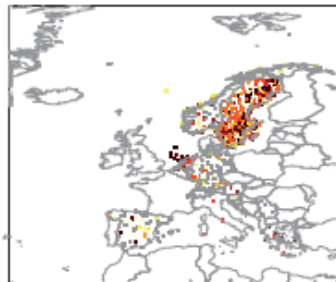
PP: 374
Surface pressure



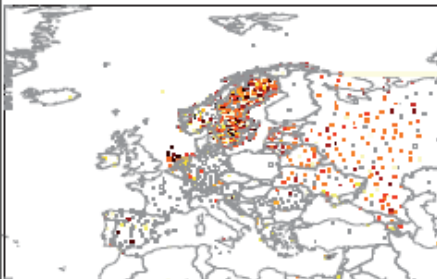
RR: 2161
Precip accumulated in 24 hours



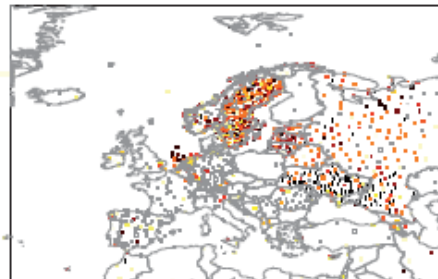
CC: 359
Cloud cover



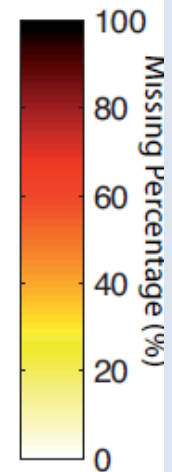
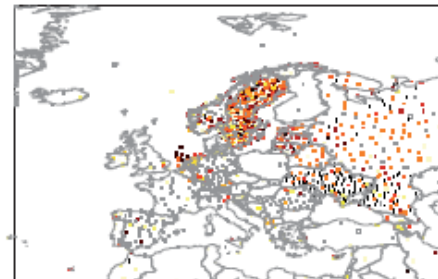
TG: 995
Mean daily temperature



TN: 1068
Minimum daily temperature



TX: 1065
Maximum daily temperature



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- 2. Predictor datasets**
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4. Pseudo reality

ERA40 or ERA-Interim ?

(original plan; see MoU)

Pros ERA-Interim:

- More recent re-analysis, improved model, higher resolution (~80 km), temporal discontinuities probably not large
- Currently evolves to standard re-analysis in dynamical downscaling (e.g. CORDEX)
- Forcing for Euro-CORDEX evaluation runs, RCM community more interested in validating these runs
- 0.11° grids could be provided by some data owners

Cons ERA-Interim:

- Shorter time period: 1979 – present (ERA40: 1958-2002)
- Most Euro-CORDEX validation runs only use 1989-2008 (20 years)
- Euro-CORDEX RCM data not yet available (planned for end of April 2013), fewer experiments so far
- Public availability of predictors not fully sorted out

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Stations: ASCII?

Grids: NetCDF?

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ENSEMBLES 0.22°

1951-2100

~15 simulations, driven by 6 GCMs

Euro-CORDEX 0.11°

1950-2100

8 GCMs, 6 GCMs, 3 RCPs

31 simulations (10 finished, 13 running, 8 planned)

Euro-CORDEX 0.44°

1950-2100

8 GCMs, 14 GCMs, 3 RCPs

59 simulations (32 finished, 4 running, 23 planned)