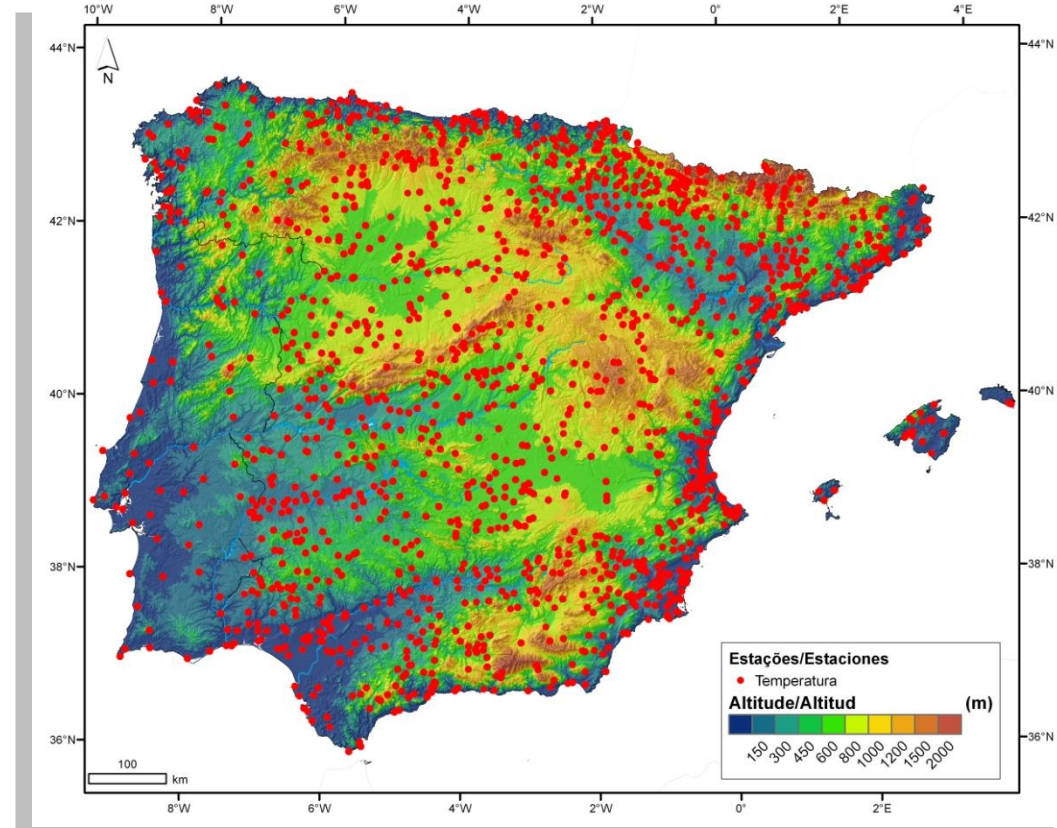
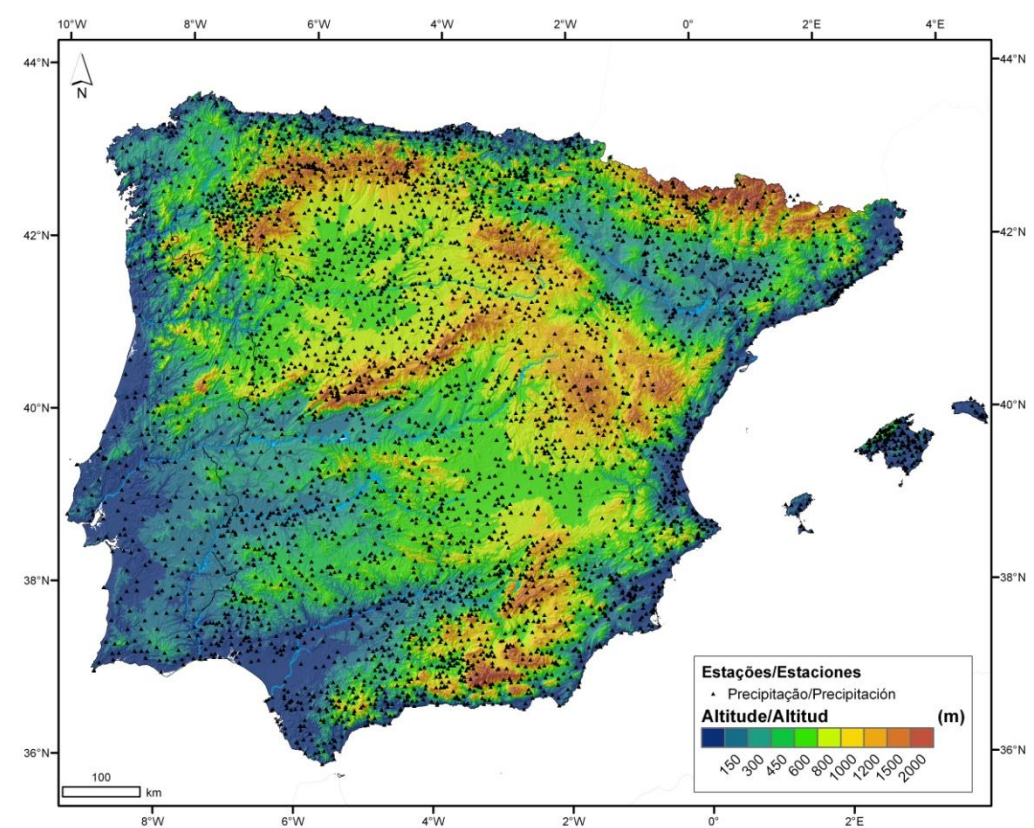


- ❑ Iberian climate maps describes the main features of climate, through the normal period 1971-2000, in Iberian Peninsula and Balearic Islands.
- ❑ According to the WMO recommendations, the basic information used in the preparation of this Atlas was the normal climatological (mean values) for the period 1971-2000.
- ❑ The Atlas contains total of 100 climatic maps of air temperature (2m) and precipitation.
- ❑ The maps were done by using Geographic Information Systems software, applying geostatistical interpolation methods.
- ❑ There were generated continuous surfaces with 250 m spatial resolution at monthly, seasonal and annual temporal resolution.
- ❑ Also tables and graphs are presented for mean and extreme values of both elements.



- ❑ This Atlas production was a joint collaboration of both Iberian Meteorological Services
- ❑ The observation networks used include data from weather stations of the Portuguese Institute of Meteorology IP, from water Institute (INAG) and the Spanish State Agency of Meteorology (AEMET).
- ❑ Whenever possible there were used full period (1971-2000) meteorological stations, or at least with 15 years period, mainly with higher incidence in regions where the network density is sparse.
- ❑ Maps include 1503 meteorological weather stations and 4540 meteorological stations and udometric posts.
- ❑ The used data result from a compromise between series operational period and spatial density.



Climatological network air temperature in the Iberian Peninsula and the Balearic Islands.

Climatological network precipitation in the Iberian Peninsula and the Balearic Islands.

- ❑ Annual, seasonal and monthly mean for mean air temperature.
- ❑ Annual, seasonal and monthly mean for maximum air temperature.
- ❑ Annual, seasonal and monthly mean for minimum air temperature.
- ❑ Annual and seasonal mean for the number of days:
  - Minimum air temperature  $\leq 0^\circ\text{C}$  (frost days)
  - Minimum air temperature  $\geq 20^\circ\text{C}$  (tropical nights)
  - Maximum air temperature  $\geq 25^\circ\text{C}$  (hot days)
- ❑ Monthly and annual mean of total rainfall.
- ❑ Annual and seasonal mean for the number of days with precipitation amounts:
  - $\geq 0.1\text{ mm}$
  - $\geq 1\text{ mm}$
  - $\geq 10\text{ mm}$
  - $\geq 30\text{ mm}$

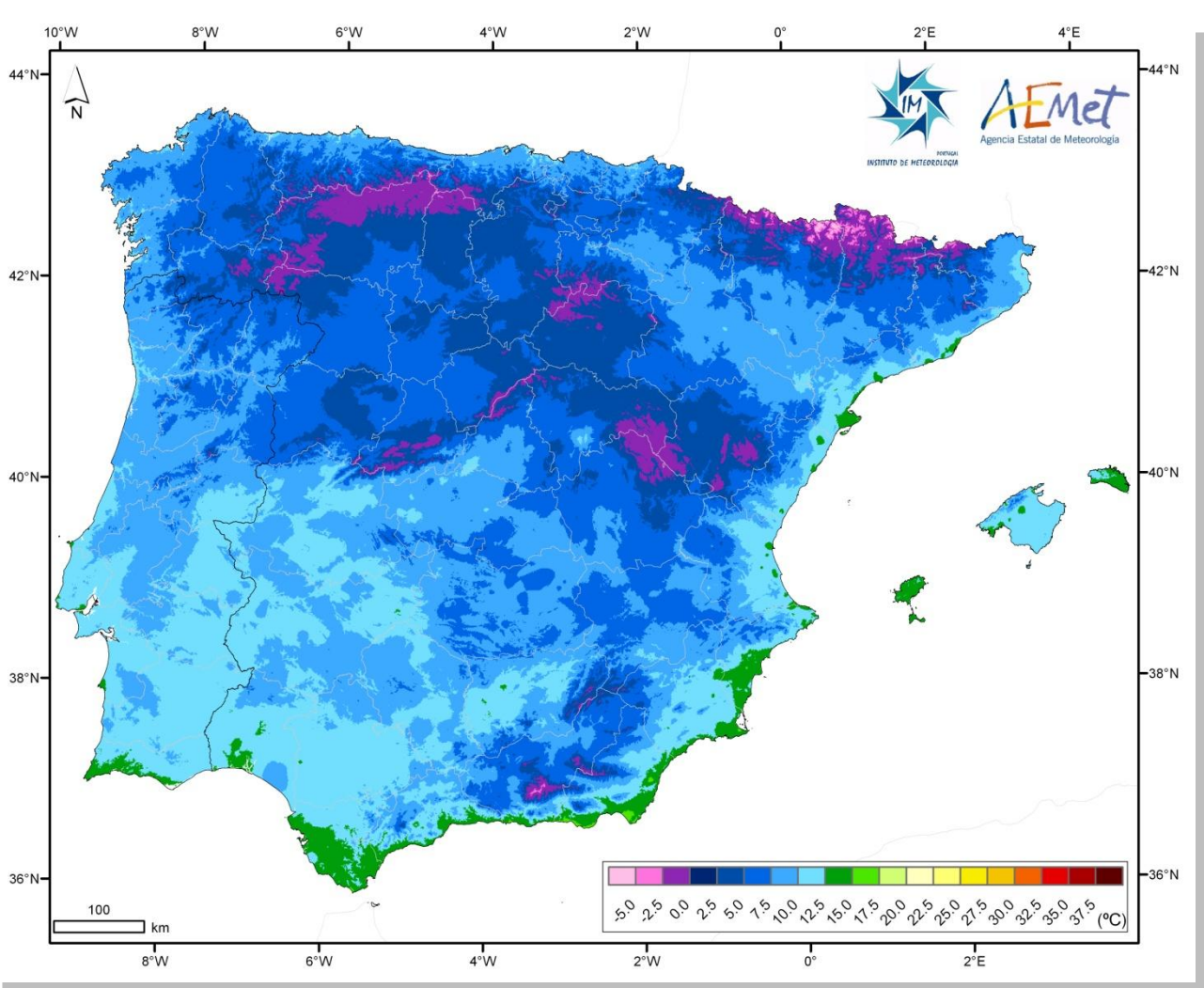
### Coordinate system

The coordinate reference system was the CRS - ETRS89-LAEA (Lambert Azimuthal Equal Area):

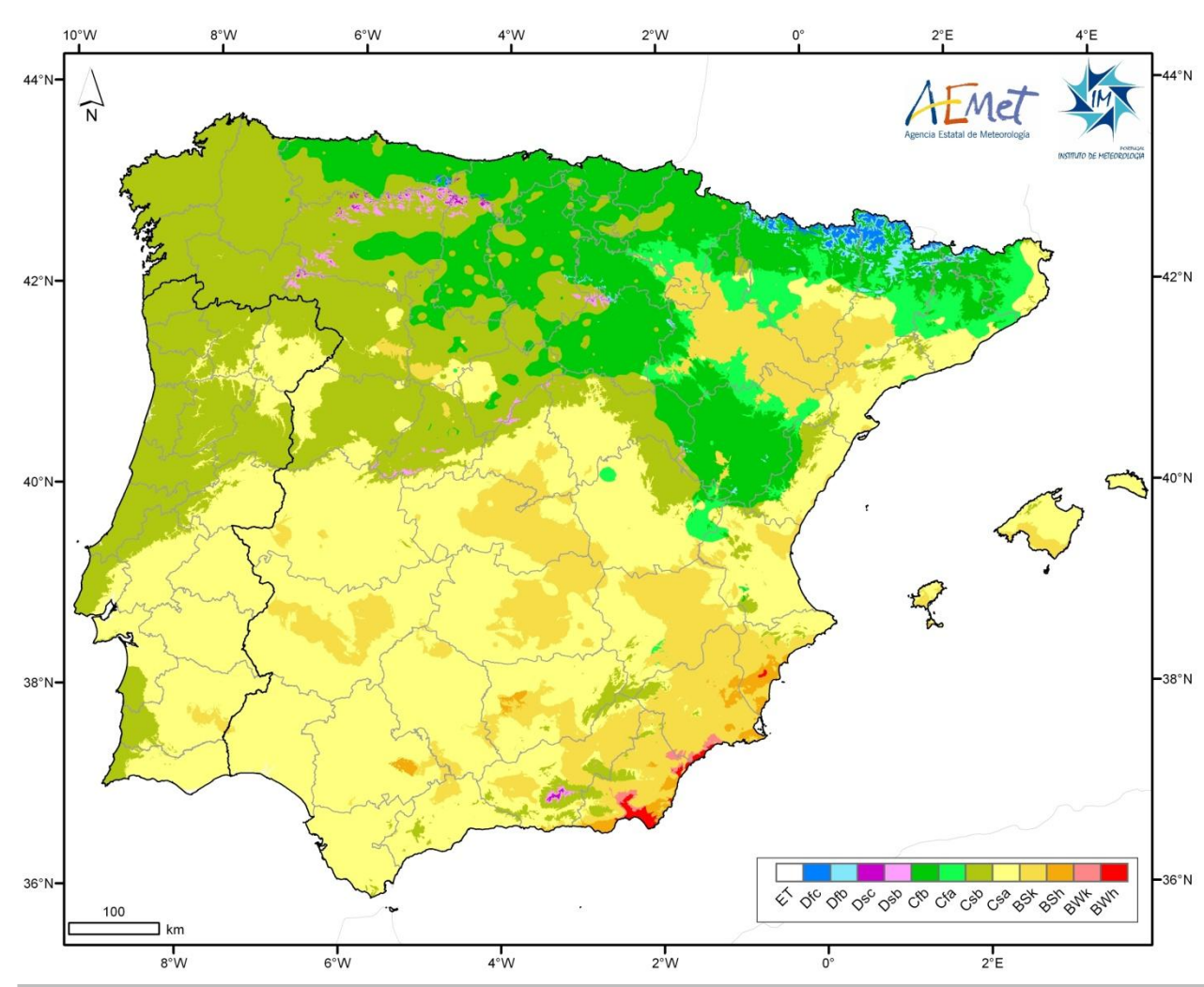
ETRS 1989 LAEA  
 Projection: Lambert Azimuthal Equal Area  
 False Easting: 4321000.000000  
 False Northing: 3210000.000000  
 Central Meridian: 10.000000  
 Latitude Of Origin: 52.000000  
 GCS ETRS 1989

### Digital elevation model - DEM

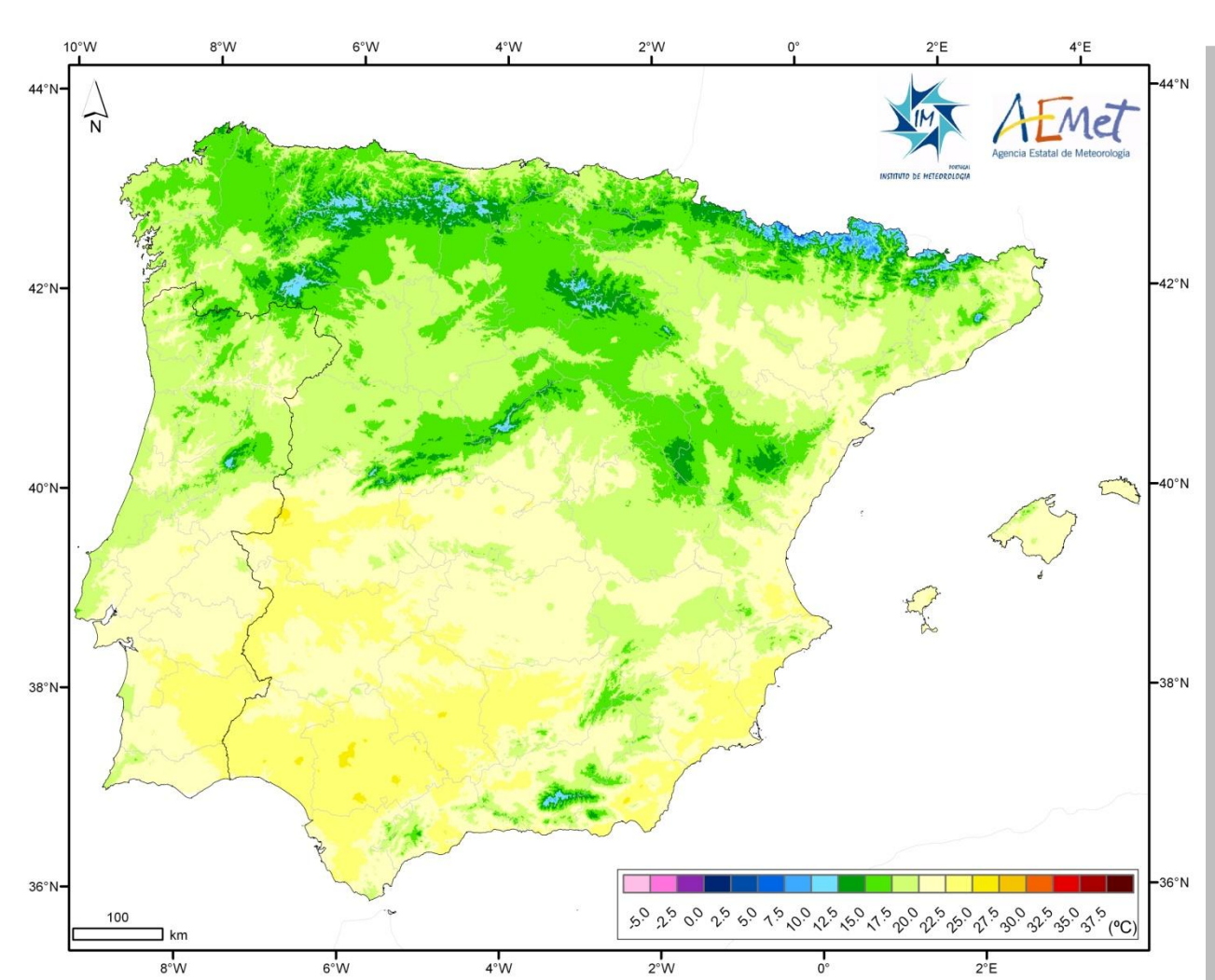
The DEM used was a resampled version of the SRTM 4 (<http://srtm.csi.cgiar.org>) at a resolution of 250 meters. This DEM was the basis of all the regression analysis.



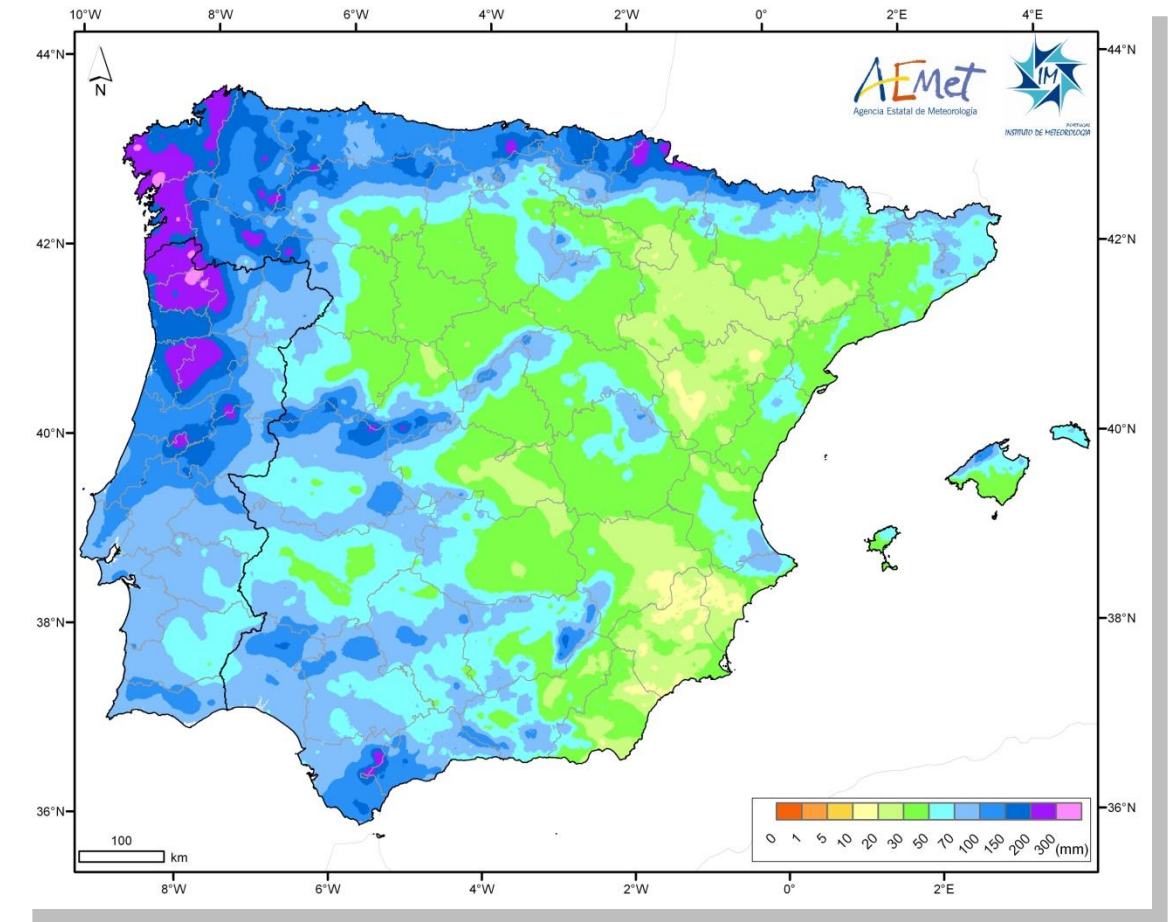
Annual mean minimum air temperature



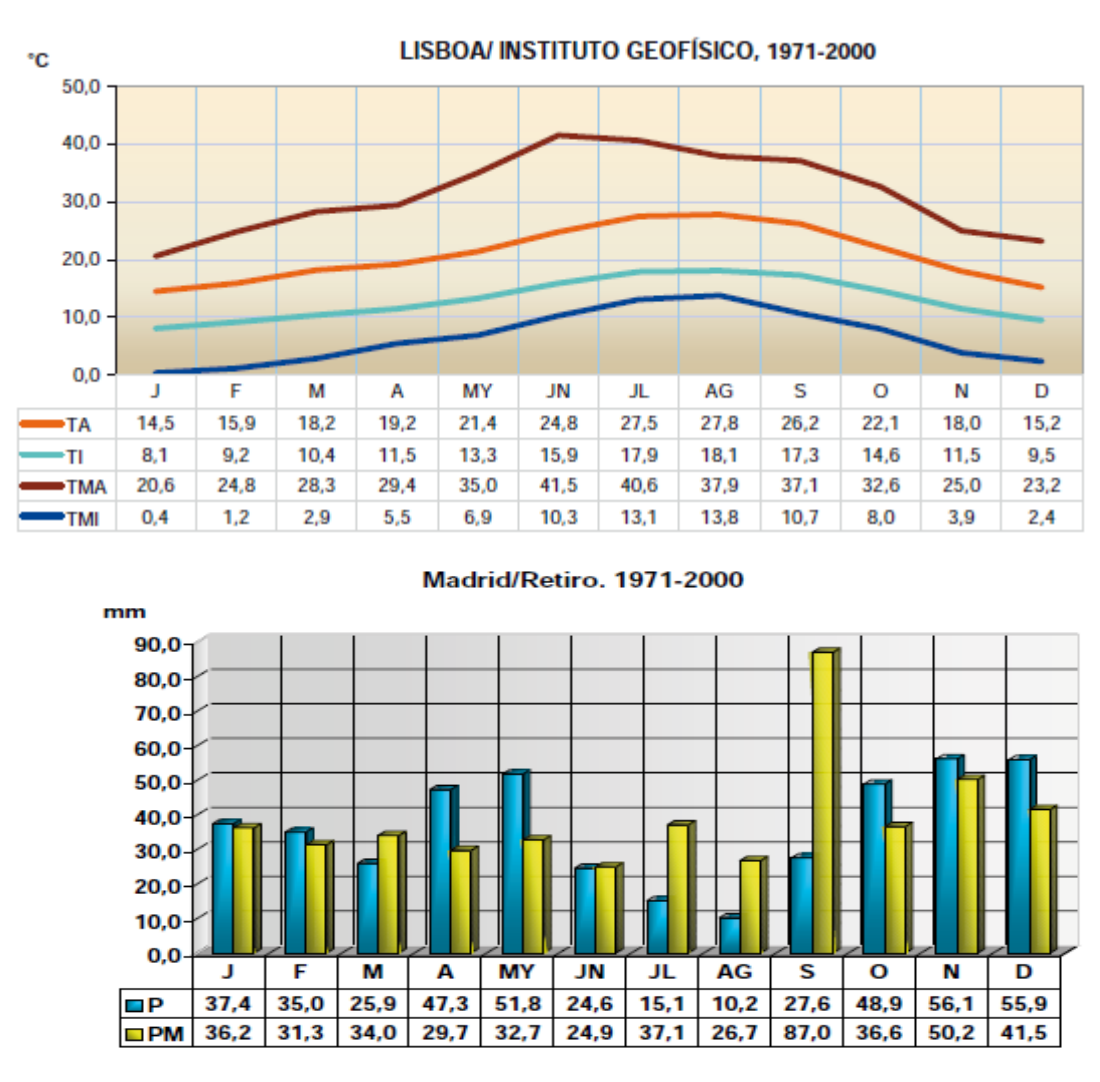
Köppen Climate Classification



Annual mean maximum air temperature



Precipitation totals January



Precipitation totals July