CNRM Model

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Detailed model description

Page containing details for all model configurations available in S2S since the project start **=> CNRM model description**

Overview of the model changes

ⓘ For next model change be aware of Issues with data#Meteo-France(lfpw) => to be fixed!

Model version	Implement. date in S2S	Time range	Resolution	Ens. Size	Frequency	Re-forecasts	Rfc period	Rfc frequency	Rfc size	Ocean resolution	Active Sea Ice	Remarks
CNRM-CM 6.1	22/10/2020	d 0-47	T359 L91	25	weekly	fixed	1993-**2017** (model version date 01/07/2019)	**every 7 days** (starting from 31/12/1992 *2)	10	0.25° L75	yes	**additional ocean parameters added** since 22 Oct 2020 **For next model change be aware of Issues with data#Meteo-France(lfpw) => to be fixed!**
CNRM-CM 6.0	01/03/2016	d 0-32	T255 L91	51	weekly	fixed	1993-2014 (model version date 01/12/2014)	4/month (always on the 1st, 8th, 15th and 22nd *2)	15	1° L42	yes	

Description of the main changes

CNRM-CM 6.1

- operational since 22/10/2020 (included)
  - the corresponding fixed reforecast set is with the model version date 2019-07-01
- the forecast length was prolonged to 47 days (from 32)
- the ensemble size was decreased to 25 (from 51) for the real-time data and to 10 (from 15) for the reforecasts
- Additional parameters added:
  - CAPE
  - Skin Temperature
  - Soil Moisture (top 20 and 100 cm)
  - Soil temperature (top 20 and 100 cm)
  - Surface water runoff
  - 9 ocean fields (Average potential temperature in the upper 300 m, Average salinity in the upper 300 m, Depth of 20 C isotherm, Eastward sea water velocity, Northward sea water velocity, Mixed layer depth, Sea-ice thickness, Sea surface height, Sea water practical salinity)
  - 10 metre wind U / V is archived now as 6-hourly in contrary to once per day before
- No-longer available parameters:
  - Potential vorticity
  - For all pressure level fields : level 1000 hPa will be missing
  - For vertical velocity only, 10 hPa level will be missing in addition to level 1000 hPa

CNRM-CM 6.0