

# HARMONIE-Climate

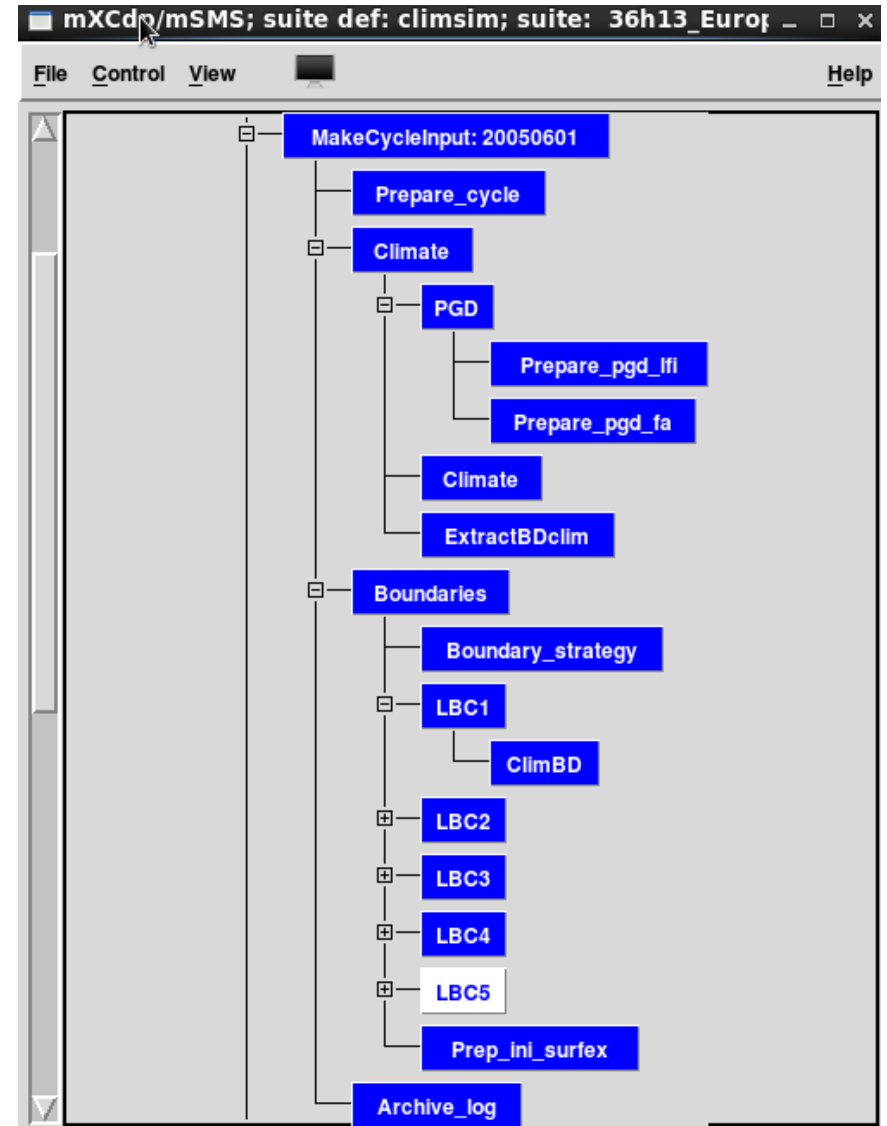
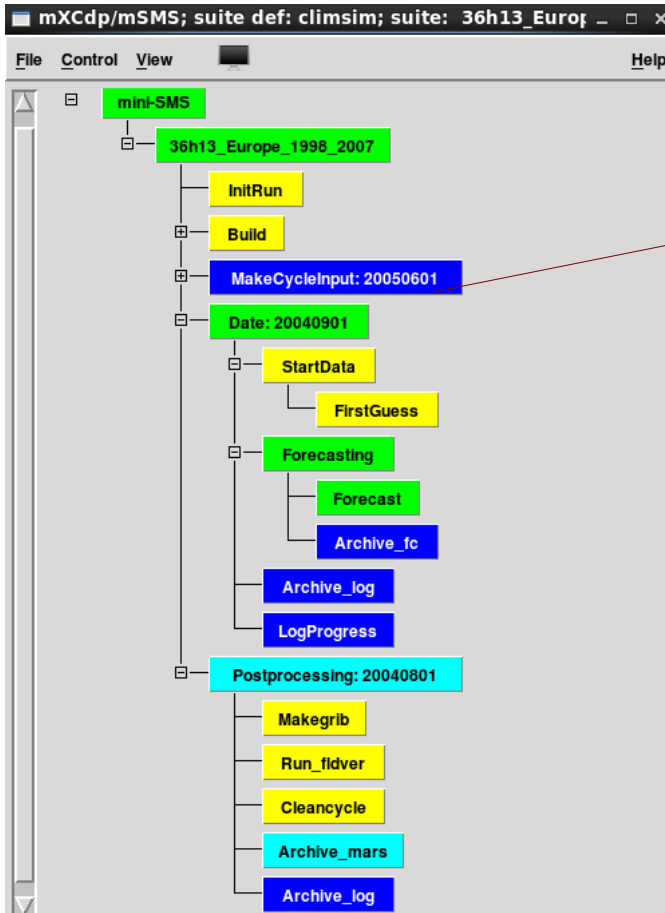
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# OUTLINE

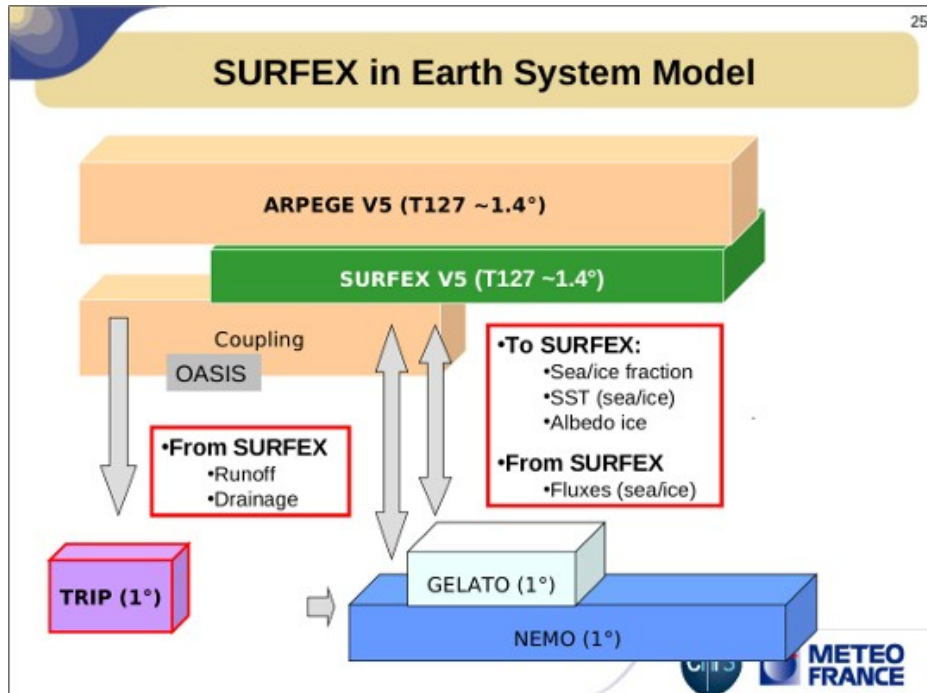
- ALADIN/HARMONIE-Climate
- Monthly integrations
- Sea Surface Temperature (SST)
- Runs
- Post-processing
- Near future plans

# HARMONIE-Climate

- ALADIN-Climate
- mSMS

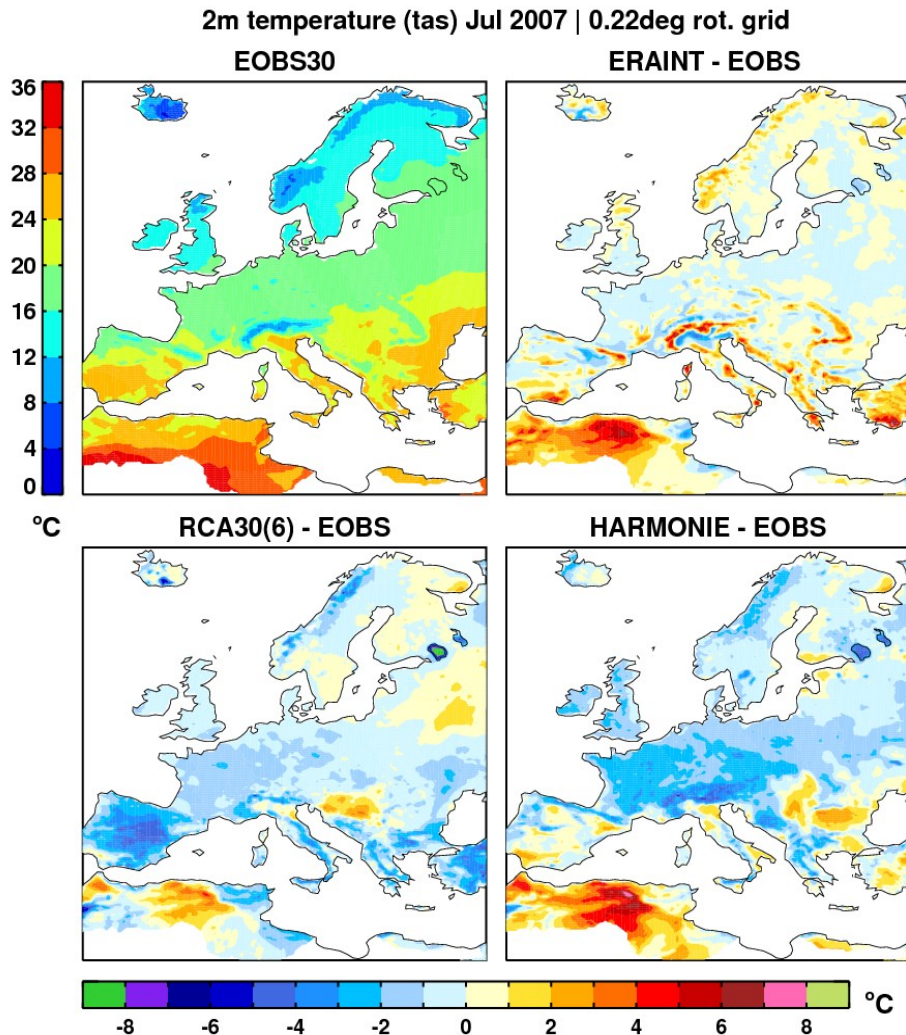


# Sea Surface Temperature



- Monthly integrations
- Atmosphere only
- Coupling to ocean model

# Runs



- Europe 6.25km, 10 years.
- Nested experiments Northern Sweden, 2km with arome-physics.

# Post-processing

- NetCDF in gl
- Selective namelists in Full-Pos

(<http://www.cnrm.meteo.fr/gmapdoc/meshtml/Diagnostics/fullpos/index.html>)

# Selective namelists (1/4)

- Differences in nam/harmonie\_namelist.pm

```
% mdiff nam/harmonie_namelist.pm
```

```
< 'LFPOS' => '.TRUE.,',  
> 'LFPOS' => '.FALSE.,',  
< 'NPOSTS(0)' => '0,',  
< 'NFRPOS' => '36,',  
< 'CNPPATH' => '\.\'',  
< 'NAMFPC=>{  
< 'CFPFMT' => 'LELAM,',  
< 'CFPDOM(1)' => 'TEST_11,',  
< 'CFP3DF(1)' => 'GEOPOTENTIEL,',  
< 'CFPXFU(1)' => 'CLSTEMPERATURE,',  
< 'CFPCFU(1)' => 'SURFPREC.EAU.CON,',  
< 'CFP2DF(1)' => 'SURFPRESSION,',  
< 'CFPPHY(1)' => 'SURFTEMPERATURE,',  
< 'RFP3P(1)' => '50000.,',  
< 'RFP3P(2)' => '85000.,',  
< },
```

# Selective namelists (2/4)

- nam/select\_p3

```
&NAMFPDY2
  CL2DF(1)='SURFPRESSION',
  CLD2DF(1)='TEST_11',
/
&NAMFPDYP
  CL3DF(1)='GEOPOTENTIEL',
  IL3DF(1,1)=1,2,
  CLD3DF(1,1)='TEST_11',
  CL3DF(2)='TEMPERATURE',
  IL3DF(1,2)=1,2,
  CLD3DF(1,2)='TEST_11',
/
&NAMFPPHY
  CLPHY(1)='SURFTEMPERATURE',
  CLDPHY(1)='TEST_11',
```



# Selective namelists (3/4)

- Differences in scr/Forecast

```
% mdiff scr/Forecast
```

```
< ln -sf $HM_LIB/nam/select_p0 xxt00000000
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd03mm
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd06mm
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd09mm
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd12mm
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd15mm
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd18mm
```

```
< ln -sf $HM_LIB/nam/select_p3 xxtdddd21mm
```

```
< ln -sf $HM_LIB/nam/select_p0 xxtdddd00mm
```

```
< ln -sf $CLIMDIR/m$( mandtg -month $DTG ) Const.Clim
```

# Selective namelists (4/4)

- Outfiles (archive/YYYY/MM/DD/00)

ICMSHHARM+0000

ICMSHHARM+0006

ICMSHHARM+0012

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PFHARMTEST\_11+0000

PFHARMTEST\_11+0003

PFHARMTEST\_11+0006

PFHARMTEST\_11+0009

PFHARMTEST\_11+0012

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# Near future plans

- Extensive analysis
- Standardize output
- Couple to NEMO

# The end

- Questions?

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