

# LIST OF RUNS OF MED-CORDEX, PHASE-1 using coupled RCSM

## Various spatial resolutions are available

version 1: S. Somot, 25th April 2017

version 2: S. Somot, 20th May 2019 (add new GUF, ICTP, ITU, CNRM, LMD, CMCC runs)

version 3: S. Somot, 6th November 2020, adding new runs

### Color codes:

Atmosphere-Land-Ocean: ALO

Atmosphere-Land-River-Ocean: ALRO

Atmosphere-Land-River-Ocean-Biogeochemistry: ALROB

Aerosol-Atmosphere-River-Ocean: AALRO

Run status: planned, done, archived

### Statistics:

Number of participating institutes: 11

Number of participating different RCSMs: 14

Number of evaluation runs completed: 17 (including 8 runs with the river coupling)

Number of historical runs completed: 13 runs (including 8 runs with the river coupling)

Number of RCP8.5 runs completed: 12 runs (including 7 runs with the river coupling)

Number of RCP4.5 runs completed: 6 runs (including 7 runs with the river coupling)

Number of RCP2.6 runs completed: 1 run (including 3 runs with the river coupling)

Number of runs planned in total: 50

Number of runs completed: 49

Number of runs in the database: 25

## Med-CORDEX phase1 RCSM runs

| Institute | Model                | Contact        | Reference                    | Resol.<br>Component | Evaluation runs           | Scenario runs              |                           |                           |                           |                     |
|-----------|----------------------|----------------|------------------------------|---------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------|
|           |                      |                |                              |                     | ERA-Interim<br>1979-now   | GCM forcing                | HIST<br>1950-2005         | RCP8.5<br>2006-2100       | RCP4.5<br>2006-2100       | RCP2.6<br>2006-2100 |
| ENEA      | PROTHEUS v2          | A. Dell'Aquila |                              | 30, ALRO            | <a href="#">1982-2010</a> | CNRM-CM5<br>r1i1p1         | <a href="#">1979-2005</a> |                           | <a href="#">2006-2100</a> |                     |
| CNRM      | RCSM4                | S. Somot       | Sevault et al.<br>2014       | 50, ALRO            | <a href="#">1980-2013</a> | CNRM-CM5<br>r1i1p1         | 1950-2005                 | 2006-2100                 | 2006-2100                 | 2006-2100           |
| CNRM      | RCSM6                | S. Somot       | Darmaraki et al.<br>in 2019b | 12, AALRO           | 1980-2017                 |                            |                           |                           |                           |                     |
| LMD       | LMDZ4NEMOMED8<br>_v1 | L. Li          | L'Hévéder et al.<br>2013     | 30, ALO             | <a href="#">1979-2009</a> | IPSL-CM5A-M<br>R<br>r1i1p1 | <a href="#">1950-2005</a> | <a href="#">2006-2100</a> | <a href="#">2006-2100</a> |                     |
| LMD       | LDMZ4NEMOMED8<br>_v2 | L. Li          |                              | 30, ALRO            |                           | IPSL-CM5A-M<br>R<br>r1i1p1 | 1950-2005                 | 2006-2100                 |                           |                     |
| LMD       | LMDZ4NEMOMED8<br>_v2 | L. Li          |                              | 30, ALRO            |                           | CNRM-CM5<br>r1i1p1         | 1950-2005                 | 2006-2100                 |                           |                     |
| LMD       | LMDZ4NEMOMED8<br>_v2 | L. Li          |                              | 30, ALRO            |                           | MPI-ESM-MR<br>r1i1p1       | 1950-2005                 | 2006-2100                 |                           |                     |

|                    |                             |                         |  |           |                           |                            |                           |                           |           |  |
|--------------------|-----------------------------|-------------------------|--|-----------|---------------------------|----------------------------|---------------------------|---------------------------|-----------|--|
| UBELGRADE          | EBUPOM2c                    | V. Djurdjevic           |  | 50, ALO   | <a href="#">1989-2008</a> | MPI-ESM-LR<br>r1i1p1       | <a href="#">1950-2005</a> | <a href="#">2006-2100</a> |           |  |
| IPSL               | WRF311NEMO<br>(MORCEMED)    | S. Bastin               |  | 20, ALO   | 1989-2013                 | IPSL-CM5A-M<br>R<br>r1i1p1 | 1989-2005                 | 2006-2035                 |           |  |
| INSTM              | LMDZ/ROMS-MED               | A. Harzallah            |  | 50, ALO   | 1979-2009                 |                            |                           |                           |           |  |
| GUF                | CCLM-NEMO                   | B. Ahrens               |  | 50, ALO   | <a href="#">1980-2012</a> |                            |                           |                           |           |  |
| GUF                | CCLM5-0-9-NEMO<br>MED12-3-6 | B. Ahrens               |  | 12, ALRO  | 1979-2016                 | EC-EARTH<br>r12i1p1        | 1950-2005                 | 2006-2100                 |           |  |
| CMCC<br>U. Salento | CCLM4-21-NEMOM<br>FS        | D. Conte<br>P. Lionello |  | 50, ALO   | <a href="#">1980-2011</a> | CMCC-CM<br>r1i1p1          | 1950-2005                 | 2006-2099                 | 2006-2099 |  |
| CMCC<br>U. Salento | CCLM4-21-NEMOM<br>FS        | D. Conte<br>P. Lionello |  | 12, ALO   | 1979-1990                 | CMCC-CM<br>r1i1p1          | 1960-2005                 | 2006-2100                 | 2006-2100 |  |
| GERICS<br>AWI      | ROM                         | W.Cabos<br>D. Sein      |  | 50, ALROB | 1980-2012                 | MPI-ESM-LR                 | 1950-2005                 | 2006-2099                 |           |  |
| GERICS<br>AWI      | ROM                         | W.Cabos<br>D. Sein      |  | 25, ALROB | 1980-2012                 | MPI-ESM-LR                 | 1950-2005                 | 2006-2099                 | 2006-2099 |  |
| GERICS<br>AWI      | ROM                         | W.Cabos<br>D. Sein      |  | 12, ALROB | 1980-2012                 |                            |                           |                           |           |  |
| ITU                | RegESM1                     | B.Onol                  |  | 50, ALO   | 1979-2012                 |                            |                           |                           |           |  |
| ITU                | RegESM1.2                   | B.Onol                  |  | 12, ALO   | 1979-2012                 |                            |                           |                           |           |  |

|      |          |            |                  |          |           |  |  |  |  |  |
|------|----------|------------|------------------|----------|-----------|--|--|--|--|--|
| ICTP | RegCM-ES | E. Coppola | Sitz et al. 2017 | 20, ALRO | 1980-2013 |  |  |  |  |  |
|------|----------|------------|------------------|----------|-----------|--|--|--|--|--|