



**The Abdus Salam
International Centre for Theoretical Physics**



2148-Presentations

**Fifth ICTP Workshop on the Theory and Use of Regional Climate
Models**

31 May - 11 June, 2010

Issues for final discussion

COPPOLA Erika

*ICTP
ESP
Trieste
ITALY*

Issues for final discussion

- Status of RegCM4 and future steps
- Special issue
- RegCM involvement in CORDEX
- Tomorrow's groups presentations and closing

Status of RegCM4 at the end of the workshop

- RegCM4 seems to be essentially working ok, at least similar to RegCM3 with same configuration
- CLM seems to work ??????
- Diurnal SST scheme seems to work
- Basic aerosol seems to work
- Sea ice still has some problems? (needs to be fixed soon)
- Tropical belt configuration seems to be working (very exciting, although needs testing)

Future steps (short term)

- Official release of RegCM4 sometimes after the workshop (to be decided, still a few things to fix)
- RegCM3 will not be further developed and will not be maintained any more after people have migrated to RegCM4.
- Addition of the Tiedtke scheme (Elguindi, Ha, by the end of the year)
- Addition of the UW PBL scheme (O'Brien, by end of year)
- Coupled chemistry scheme (Zakey, Shalaby, Solmon, by when?)
- Coupled ocean (ROMS, work is intended to start soon, difficult to evaluate when it will be available)
- Improved parallelization (Giuliani, by end of the year?)

Future steps (long term)

- Improved cloud microphysics, including explicit interaction with aerosols (need to identify who will do it)
- Semi-lagrangian advection (Tefera-diro, unclear time horizon)
- Non-hydrostatic dynamical core (work under way, unclear time horizon)
- Anything else we may want?

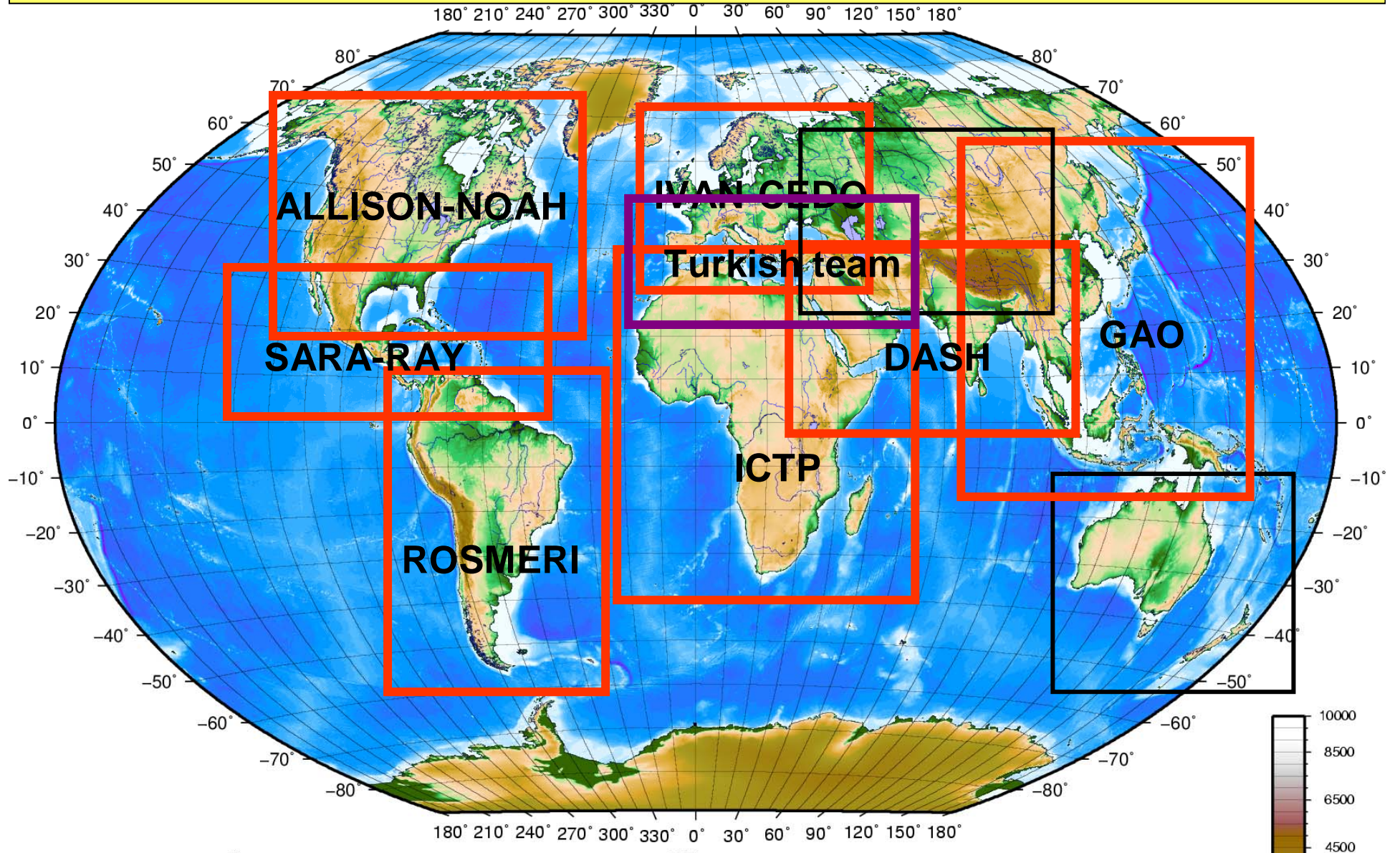
Special Issue

- Provisional set of papers ready
- Journal. Three candidates: Climatic Change, Climate Research, Global and Planetary Change
- Deadline: End of year?, maybe better 31 October to get things going?
- Should other groups in RegCNET be contacted? (already 24 potential papers in the list)
- I will make an email list and keep people updated on developments.

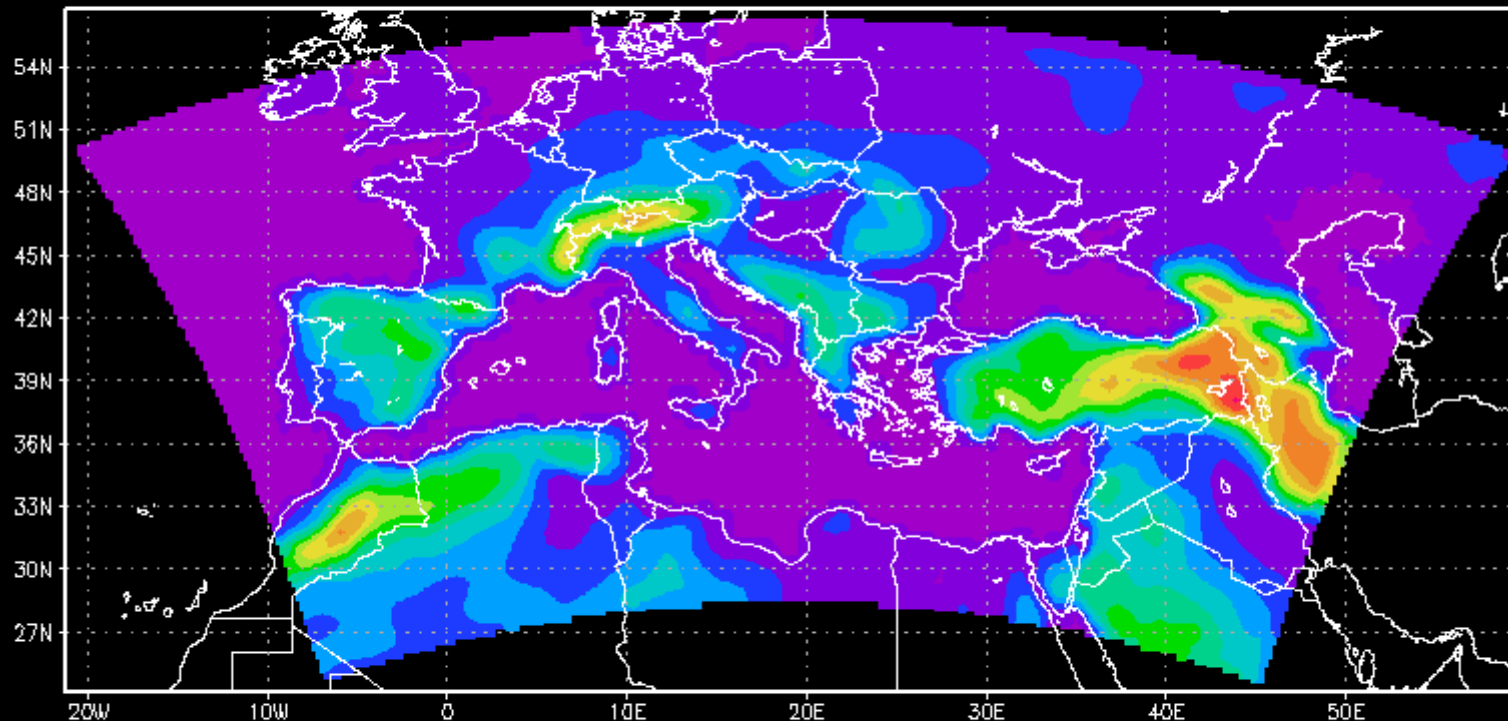
RegCM and CORDEX

- Coordination across groups over different domains. Identification of “domain coordinators”.
- Finalization of model configuration for the different domains (needs to be done quickly)
- Completion of all ERA-Interim domain runs, possibly with RegCM4, by end of year (Africa earlier)
- Turkey-Middle east issue: Propose an eastward extension of the MED-CORDEX domain
- Try to get GCM CMIP5 data as quickly as possible, produce interfaces and distribute data within the RegCNET (if the CORDEX databank is not ready)
- Will make a CORDEX email list to remind the “domain leaders” about CORDEX.
- Double nesting

RegCNET CORDEX domains



New “extended” MED-CORDEX domain



Courtesy of the Turkish Team

Project presentations

- 9:00 – 10:30
 - Group 1 (Matthew, Bode)
 - Group 2 (Bozkurt, Onol)
 - Group 3 (Croatian team)
 - Group 4 (Marshall, Munishi)
 - Group 5 (Reboita, Pessacg)
 - Group 6 (Kahnu, Pankat)
 - Group 7 (Koakou, Moktar, Evelyne, Ismail)
 - Group 8 (Azhar, Omar)

Project presentations

- 10:50 – 12:30
 - Group 9 (Souza, carmo, Llopart)
 - Group 10 (Arnoldo, Charlene)
 - Group 11 (Aquilina, Ciciulla)
 - Group 12 (Ozturk, Kurnatz, Jean Pierre)
 - Group 13 (Sarr, Rosmeri)
 - Group 14 (Liszevska, Brzoska)
 - Group 15 (Sen, Aydin)
 - Group 16 (Rahiz, Akbar)
 - Group 16b (Oscar, Pablo)

Project presentations

- 13:45 – 15:15
 - Group 17 (Narisma, Ha)
 - Group 18 (Csaba, Anna, Vijai)
 - Group 19 (Salih, Bonazza)
 - Group 20 (Wu, Shi, Zhang, Xu, Chen)
 - Group 21 (Ana, Mirjam)
 - Group 22 (Chen, Ji)
 - Group 23 (Beatrice, Bi)
 - Group 24 (Oluuoayem, Zafar, Said, Ahmed)
- 15:15 → Closing