

# WCRP-JSC-37

**Guy P. Brasseur**  
**Chair WCRP-JSC**  
**April 2016. Geneva**

*Max Planck Institute for Meteorology*  
*Hamburg, Germany*  
*National Center for Atmospheric Research*  
*Boulder, CO, USA*



**ICSU**  
International Council for Science

# 12 Directions for WCRP

- 1. Support Frontier Research
- 2. Support the 4 Core Projects
- 3. Make the Grand Challenges Successful
- 4. Introduce New Research Themes
- 5. Develop an active interface between WCRP and “downstream” activities
- 6. Enhance the Regional Role and Presence of WCRP

# 12 Directions for WCRP




- 7. Develop a Sustained Capacity Development Program
- 8. Simplify the Structure of WCRP
- 9. Favor Diversity
- 10. Develop a New Public Relation Approach
- 11. Enhance the Role of the JSC Members
- 12. Develop a long-term Funding Strategy

# 12 Directions for WCRP

- 1. Support Frontier Research
- 2. Support the 4 Core Projects
- 3. Make the Grand Challenges Successful
- 4. Introduce New Research Themes
- 5. Develop an active interface between WCRP and “downstream” activities
- 6. Enhance the Regional Role and Presence of WCRP

# 12 Directions for WCRP

- 7. Develop a Sustained Capacity Development Program
- 8. Simplify the Structure of WCRP
- 9. Favor Diversity
- 10. Develop a New Public Relation Approach
- 11. Enhance the Role of the JSC Members
- 12. Develop a long-term Funding Strategy



## Some important events to come in the coming months

- CORDEX Conference
- CMIP activities
- CLIVAR Conference
- Evaluation of WCRP by ICSU

# Central Questions for this Meeting

- Contribution of YESS to WCRP
- Review of the Core projects
- Discussion on progress made by the GCs
- Introduction of 1 revised and 2 proposed (new) GCs
- Framing WCRP Regional activities
- Preparing for the ICSU Review
- Better defining the role of JSC and of its members



# Since JSC-36.....

Two events in 2015 marked a **paradigm shift** in international politics:

- The adoption of the 17 universal **Sustainable Development Goals** (SDGs) for people and the planet to be met in 2030.
- The **Paris agreement (COP21)** to rapidly decarbonize the global economy and to keep the global mean temperature of the Earth to well below 2°C above pre-industrial levels.

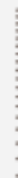
This calls for **new thinking** beyond environmentalism and beyond traditional economic thinking that redefine a **safe operating space** for humanity in an era where **climate stability cannot be longer assured**.

In this new era, what should be the **strategic directions** of WCRP?

Importance of **regional aspects**, smart use of the **International Green Fund** and assessments of climate consequences from actions to be taken.



# Thank You



**ICSU**

International Council for Science

# EURO-CORDEX

European branch of the WCRP CORDEX initiative



## Model domain

- Horizontal resolutions: 12.5 km and 50 km
- Scenarios:
  - RCP 4.5, RCP 8.5 (focus)
  - RCP 2.6 (so far: few simulations)

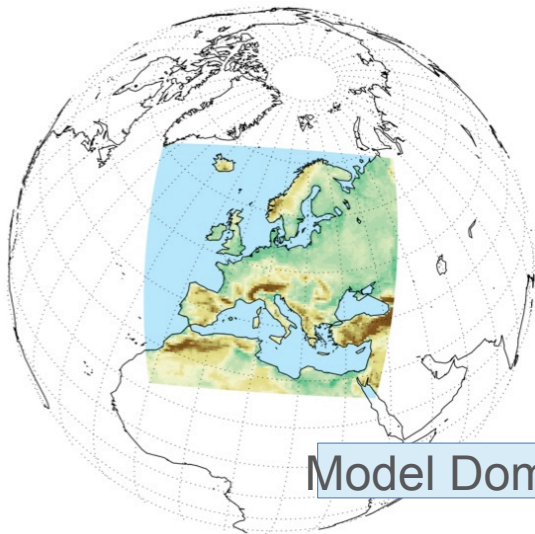
## Community

- 29 actively contribution groups
- Leading institutions in the field of regional climate modeling in Europe
- Voluntary effort, contributions are funded by the contributors

62 scenario simulations at high resolution (EUR-11, 12.5 km):  
16 planned, 4 running, 42 finished (31 simulations published)



## Organizational Structure



Model Domain

