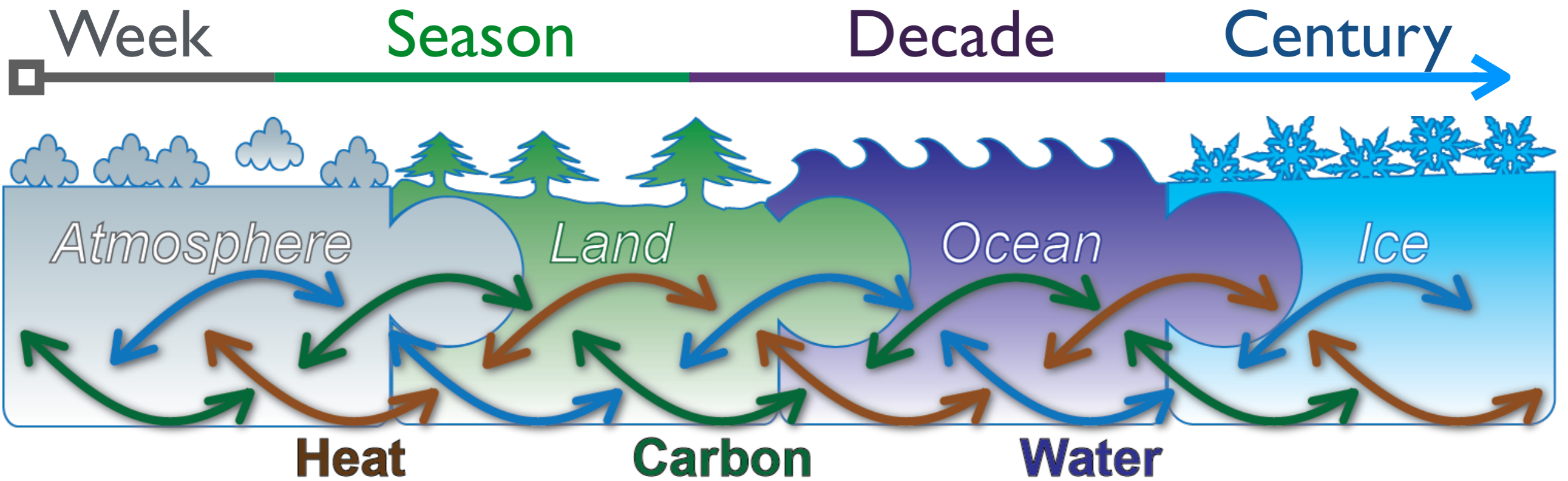
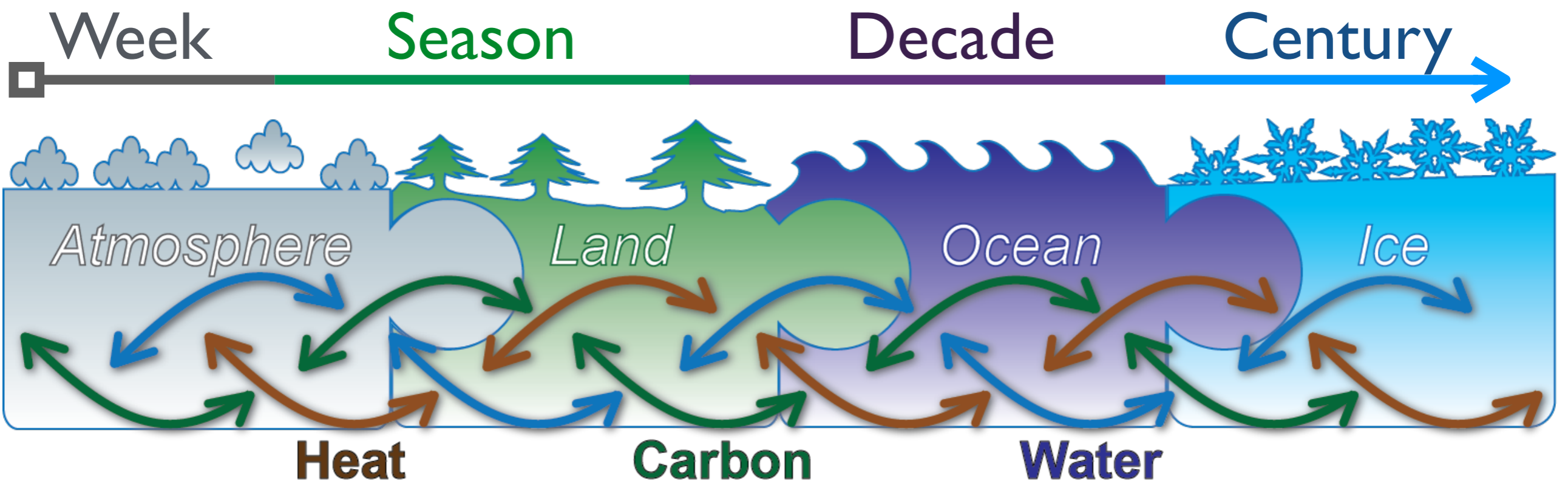
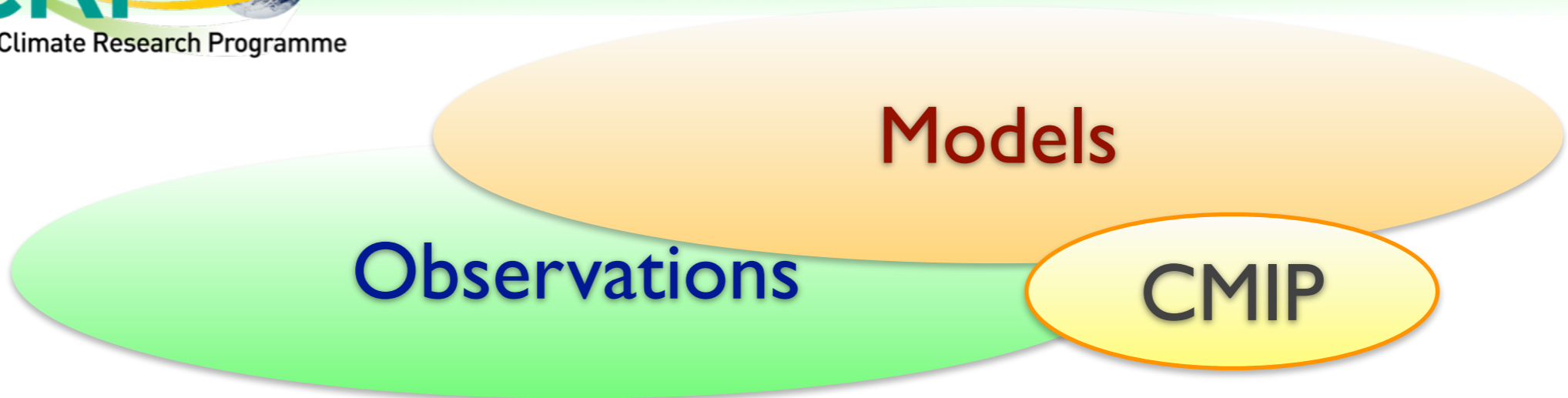


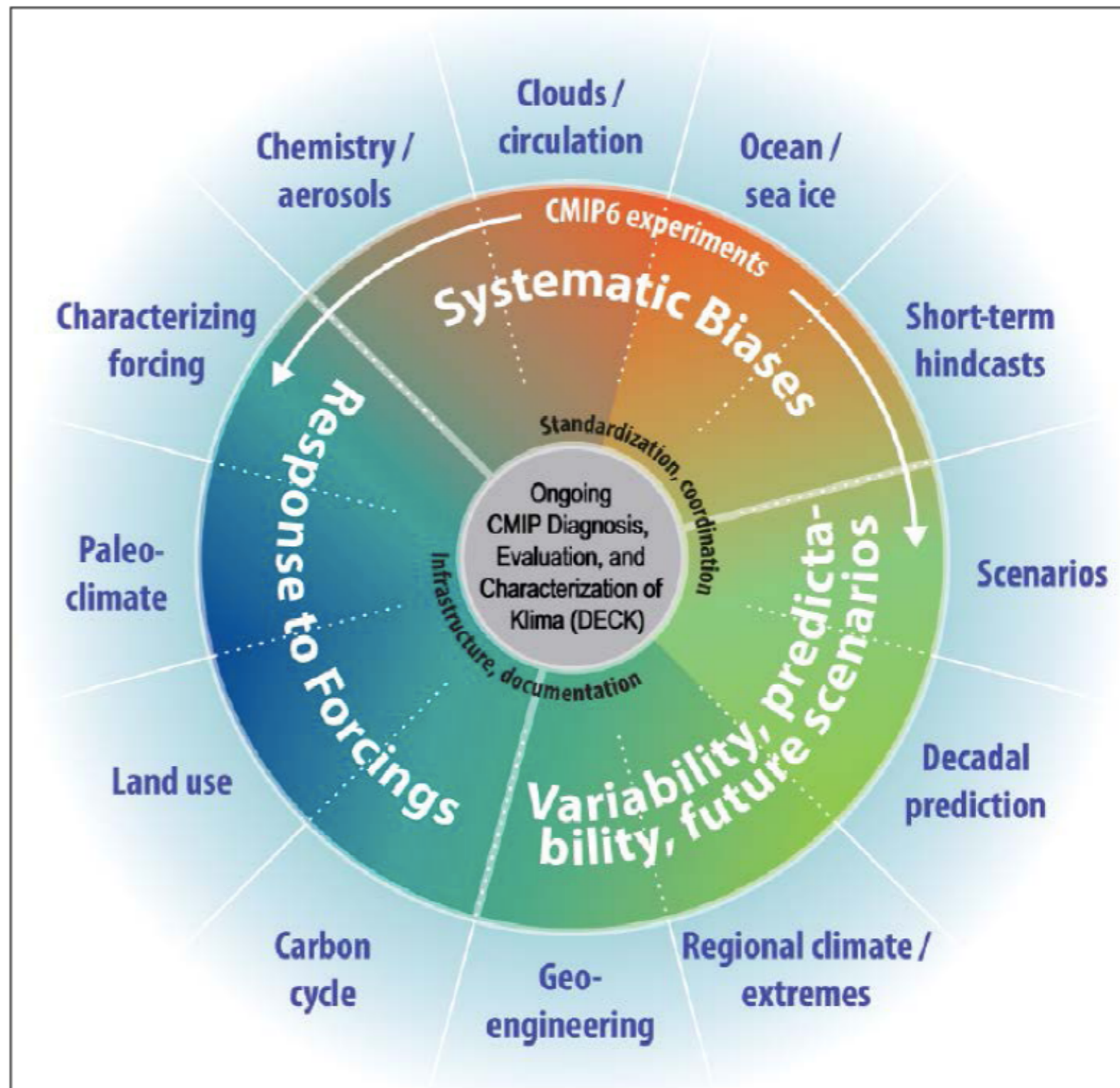
Analysis & Prediction

*Confronting
urgent climate
challenges*



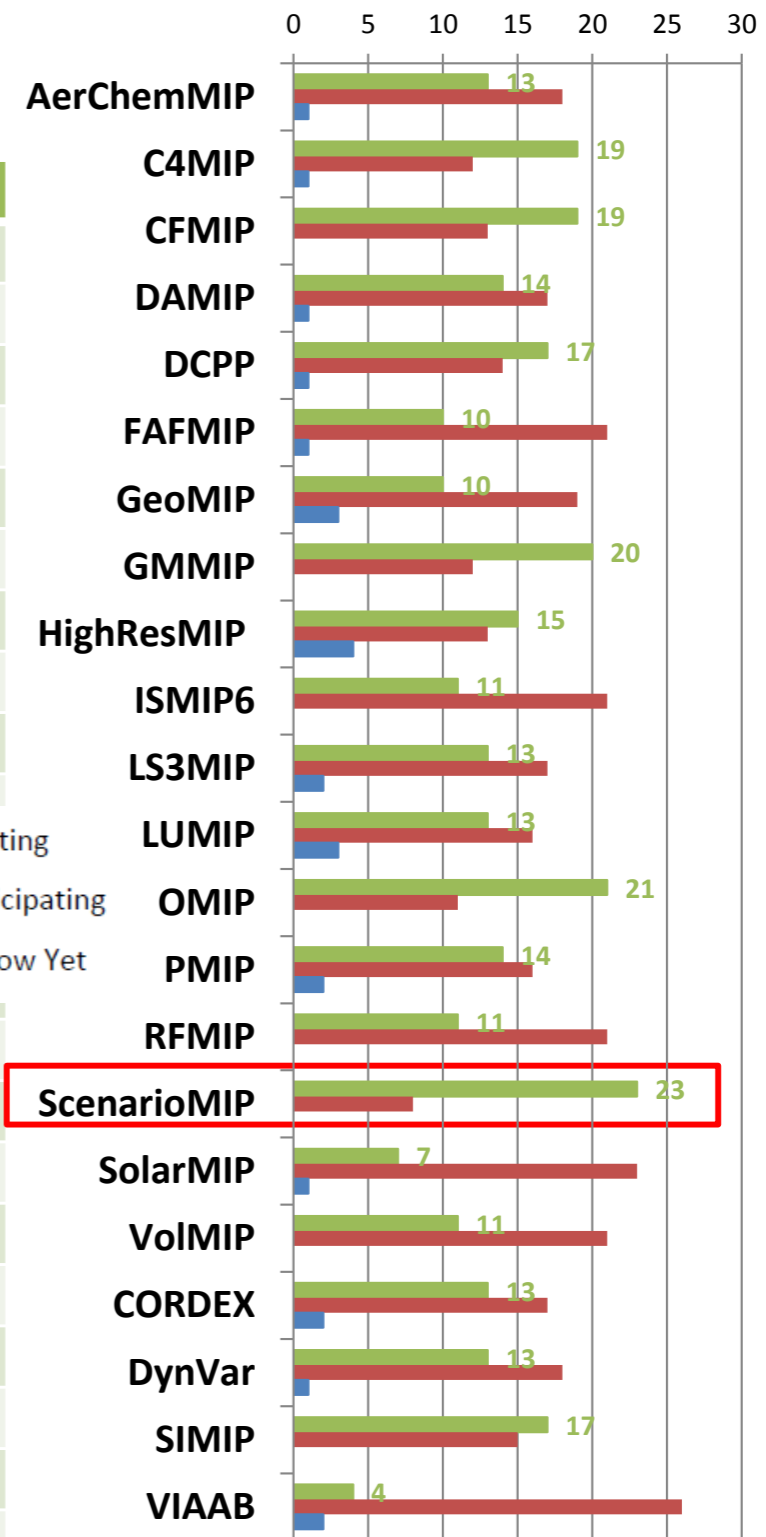
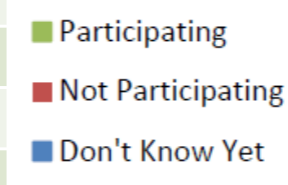


Coupled Model Intercomparison Project (CMIP6)

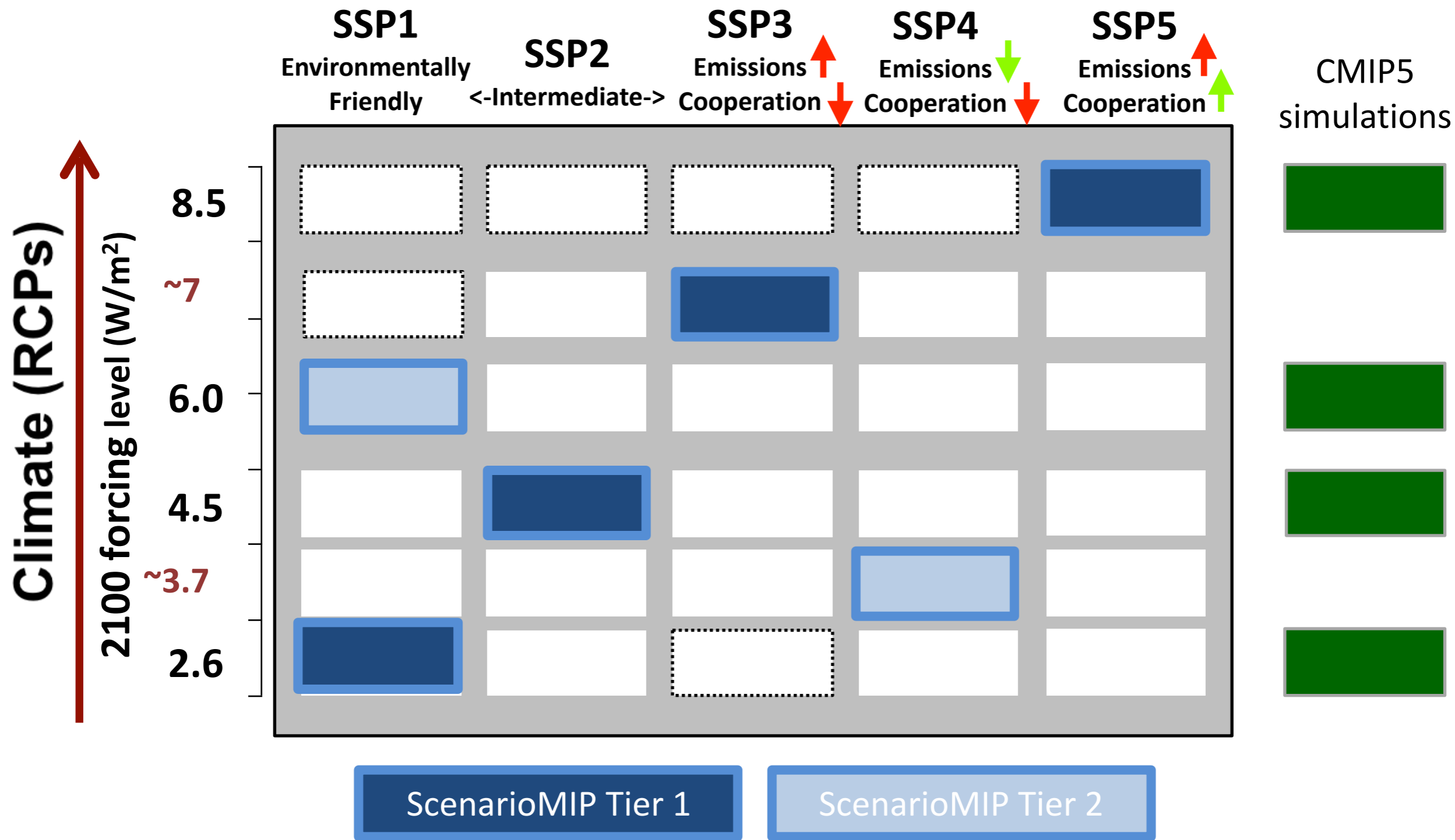


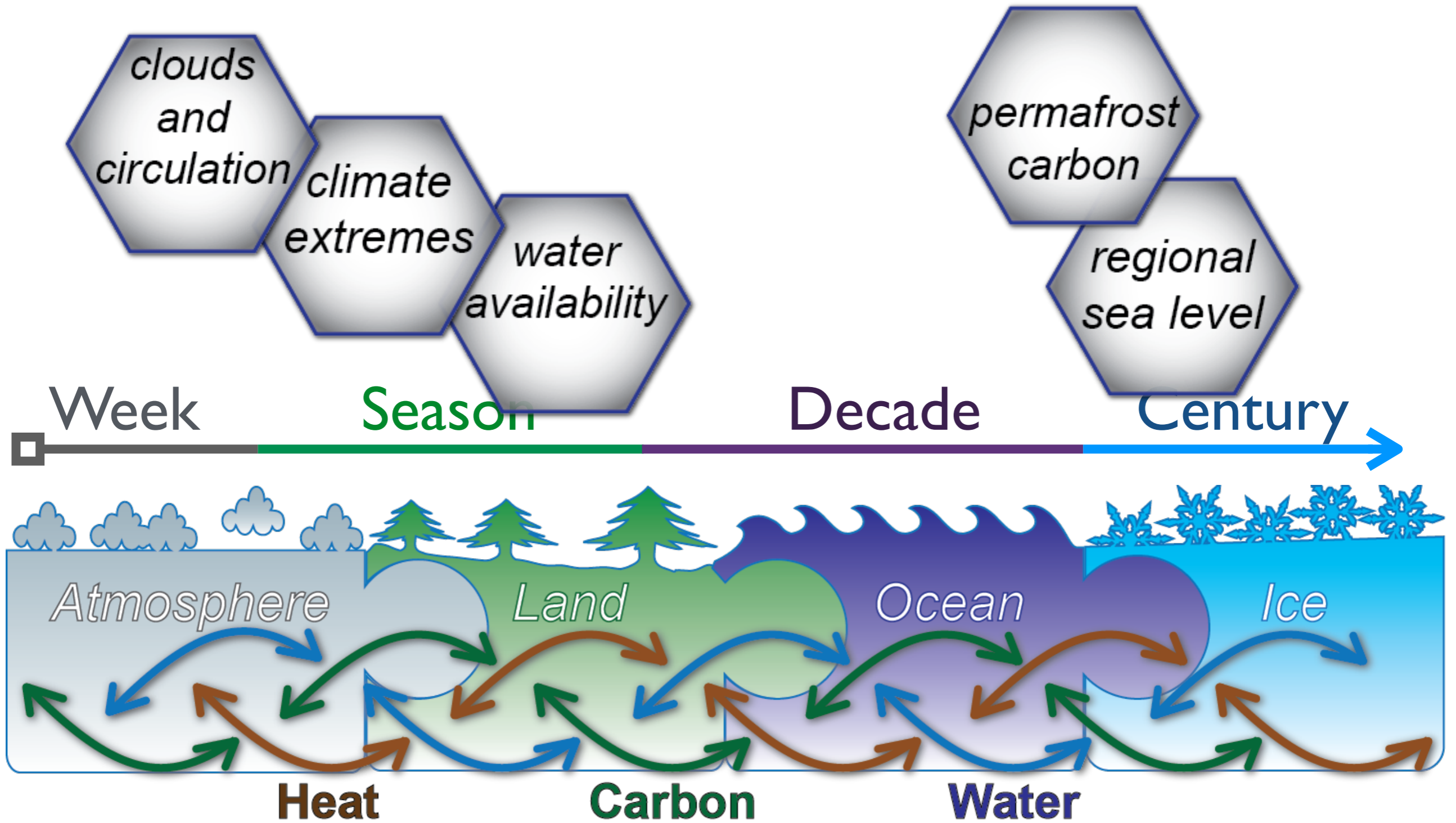
Proposals from CMIP6-Endorsed MIPs & Model Groups' Commitments to Participate in each MIP

| | Long Name of MIP (Short Name of MIP) |
|----|---|
| 1 | Aerosols and Chemistry Model Intercomparison Project (AerChemMIP) |
| 2 | Coupled Climate Carbon Cycle Model Intercomparison Project (C4MIP) |
| 3 | Cloud Feedback Model Intercomparison Project (CFMIP) |
| 4 | Detection and Attribution Model Intercomparison Project (DAMIP) |
| 5 | Decadal Climate Prediction Project (DCPP) |
| 6 | Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) |
| 7 | Geoengineering Model Intercomparison Project (GeoMIP) |
| 8 | Global Monsoons Model Intercomparison Project (GMMIP) |
| 9 | High Resolution Model Intercomparison Project (HighResMIP) |
| 10 | Ice Sheet Model Intercomparison Project for CMIP6 (ISMIP6) |
| 11 | Land Surface, Snow and Soil Moisture MIP (LS3MIP) |
| 12 | Land-Use Model Intercomparison Project (LUMIP) |
| 13 | Ocean Model Intercomparison Project (OMIP) |
| 14 | Palaeoclimate Modelling Intercomparison Project (PMIP) |
| 15 | Radiative Forcing Model Intercomparison Project (RFMIP) |
| 16 | Scenario Model Intercomparison Project (ScenarioMIP) |
| 17 | Solar Model Intercomparison Project (SolarMIP) |
| 18 | Volcanic Forcings Model Intercomparison Project (VolMIP) |
| 19 | <i>Coordinated Regional Climate Downscaling Experiment (CORDEX)</i> |
| 20 | <i>Dynamics and Variability of the Stratosphere-Troposphere System (DynVar)</i> |
| 21 | <i>Sea-Ice Model Intercomparison Project (SIMIP)</i> |
| 22 | <i>Vulnerability, Impacts, and Adaptation Advisory Board for CMIP6 (VIA AB)</i> |



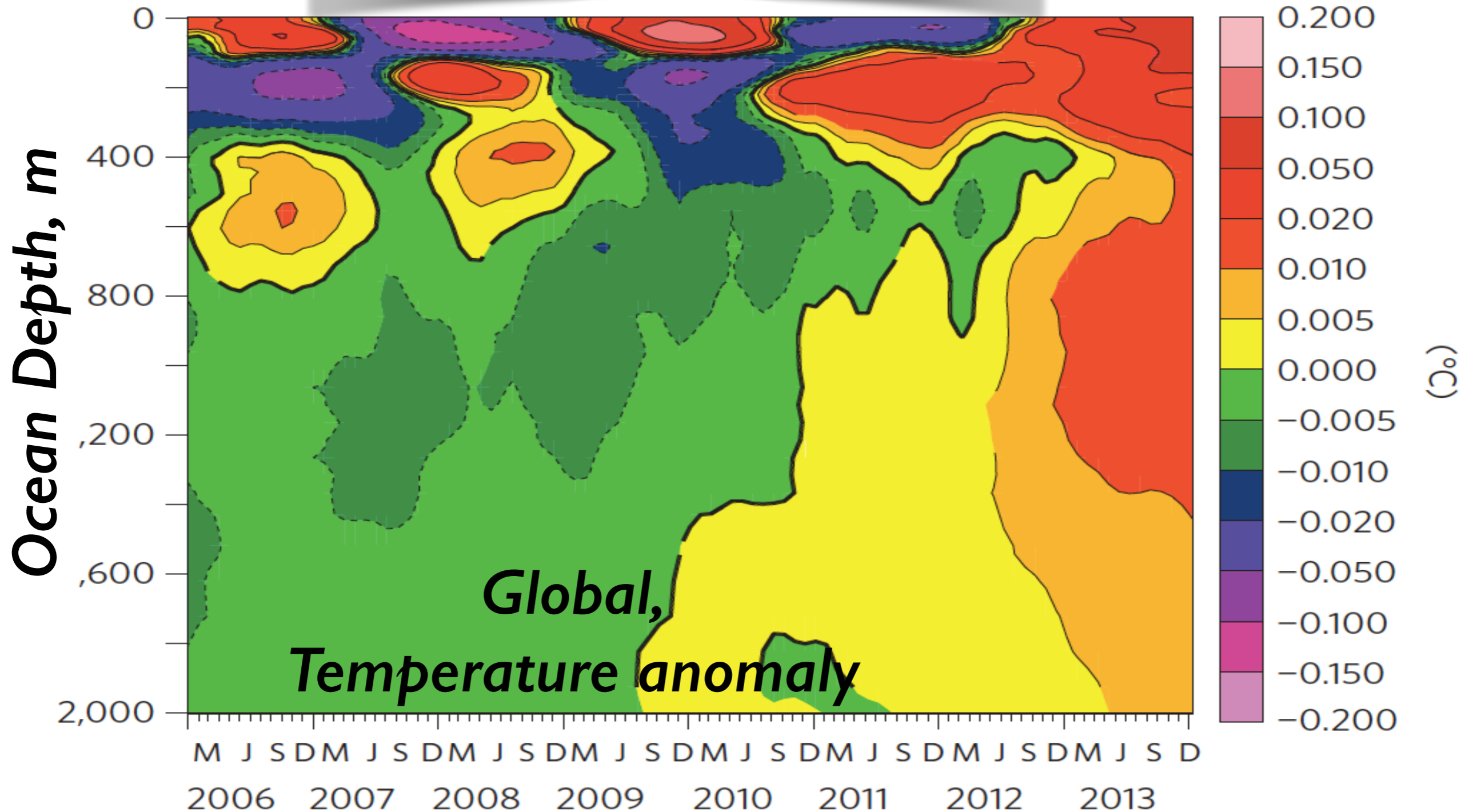
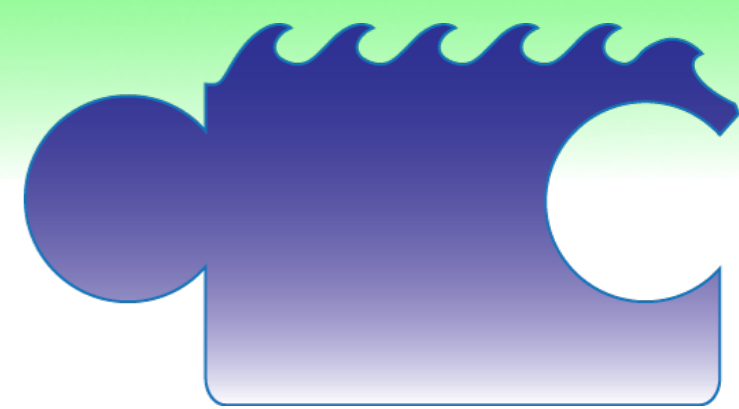
Shared Socioeconomic Pathways





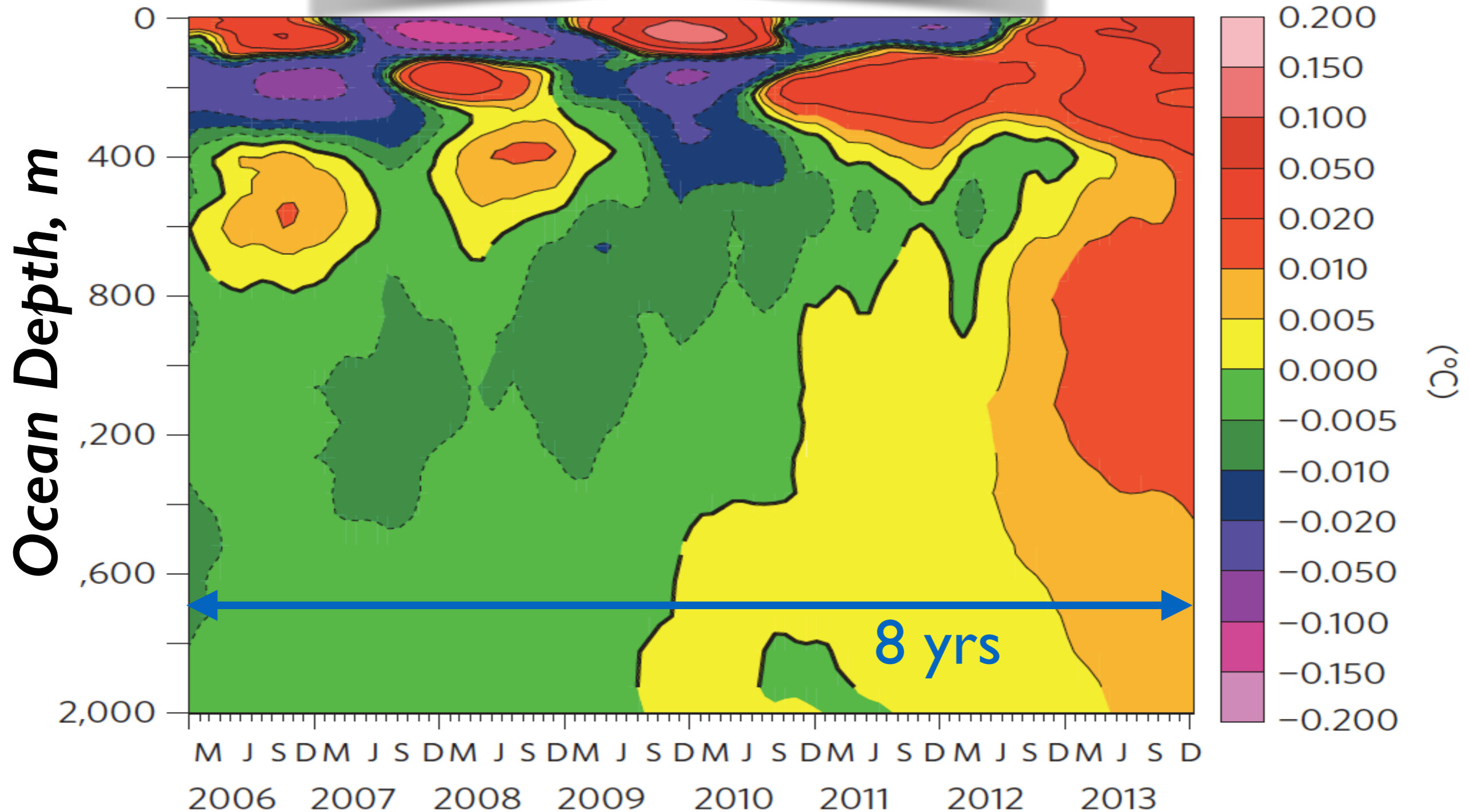
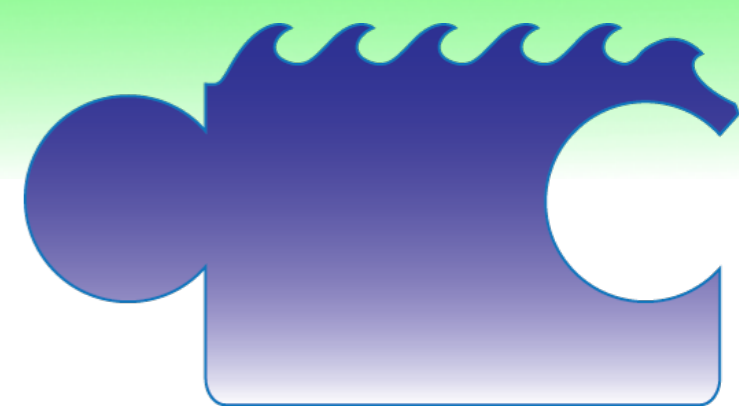


Roemmich et al. 2015
doi:10.1038/NCLIMATE2513



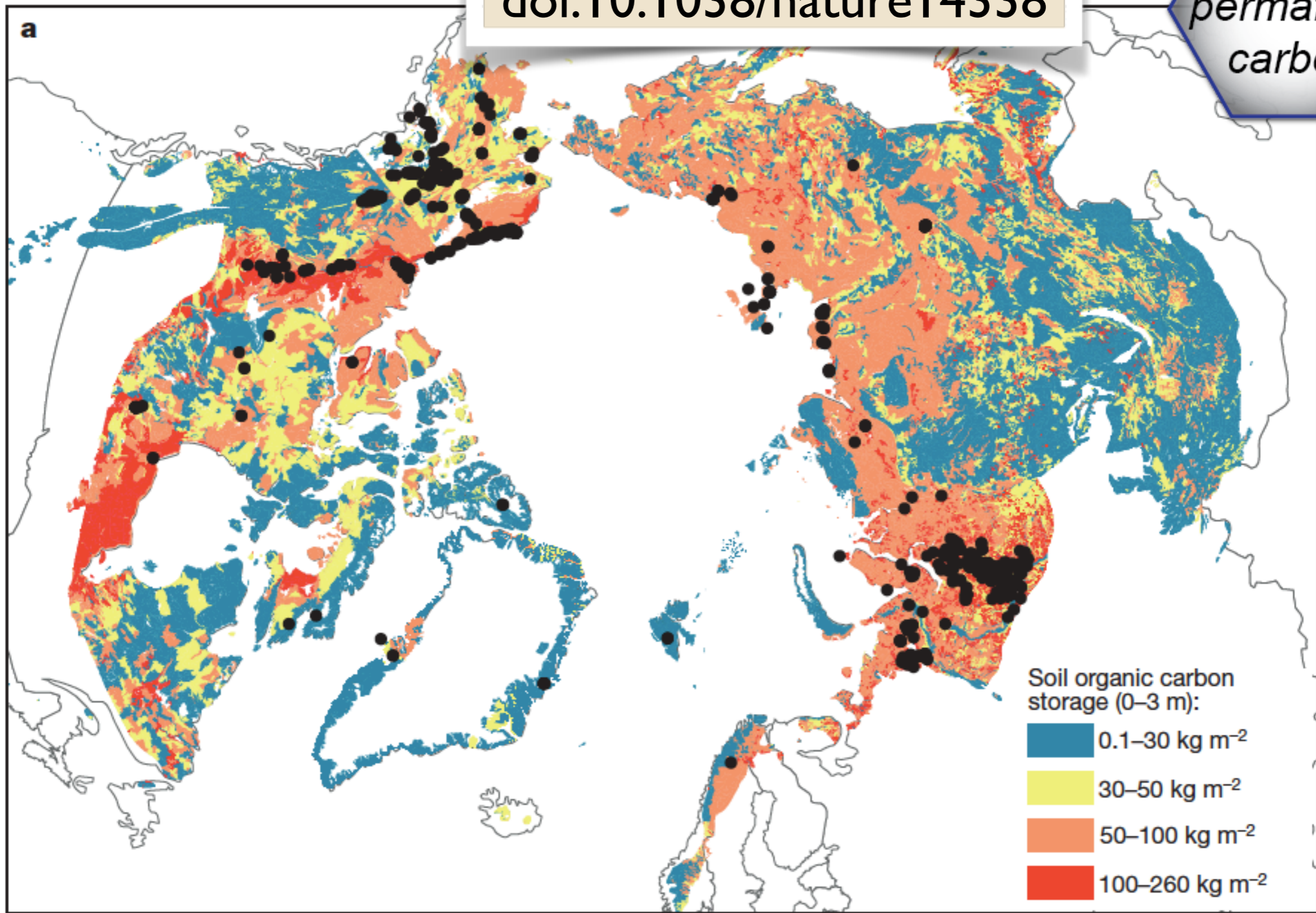


Roemmich et al. 2015
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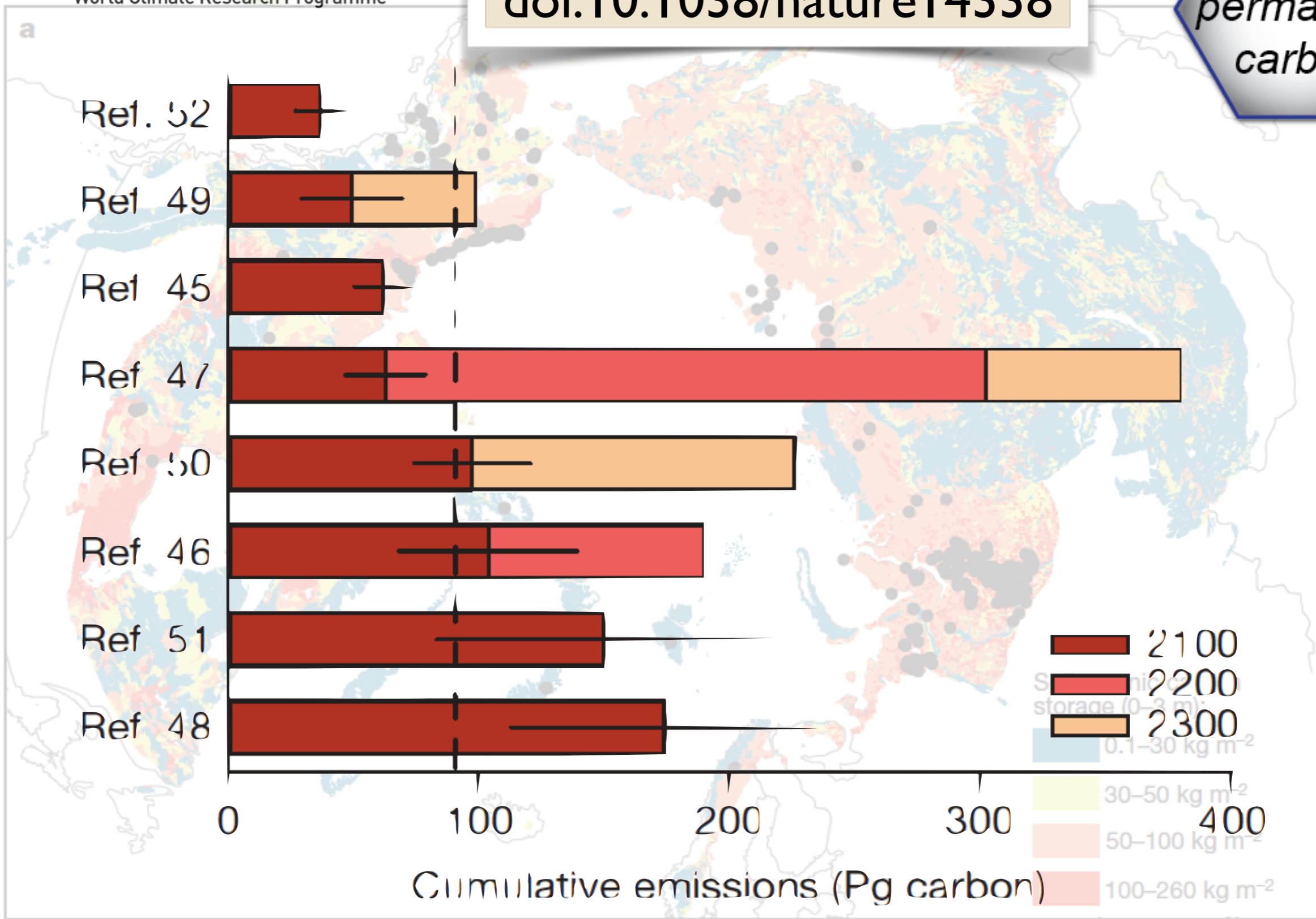
Schuur et al. 2015
doi:10.1038/nature14338

permafrost
carbon



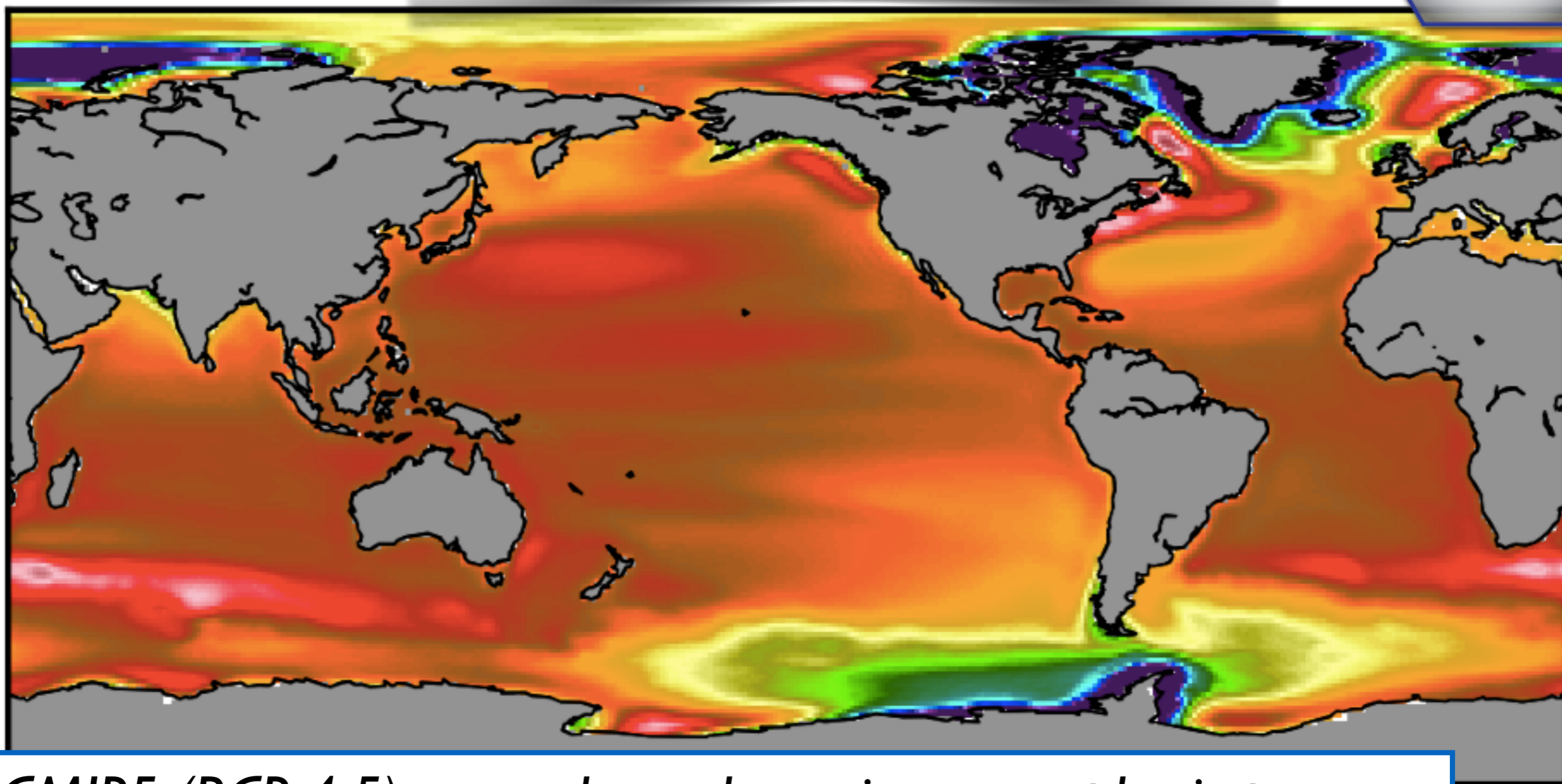
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permafrost
carbon



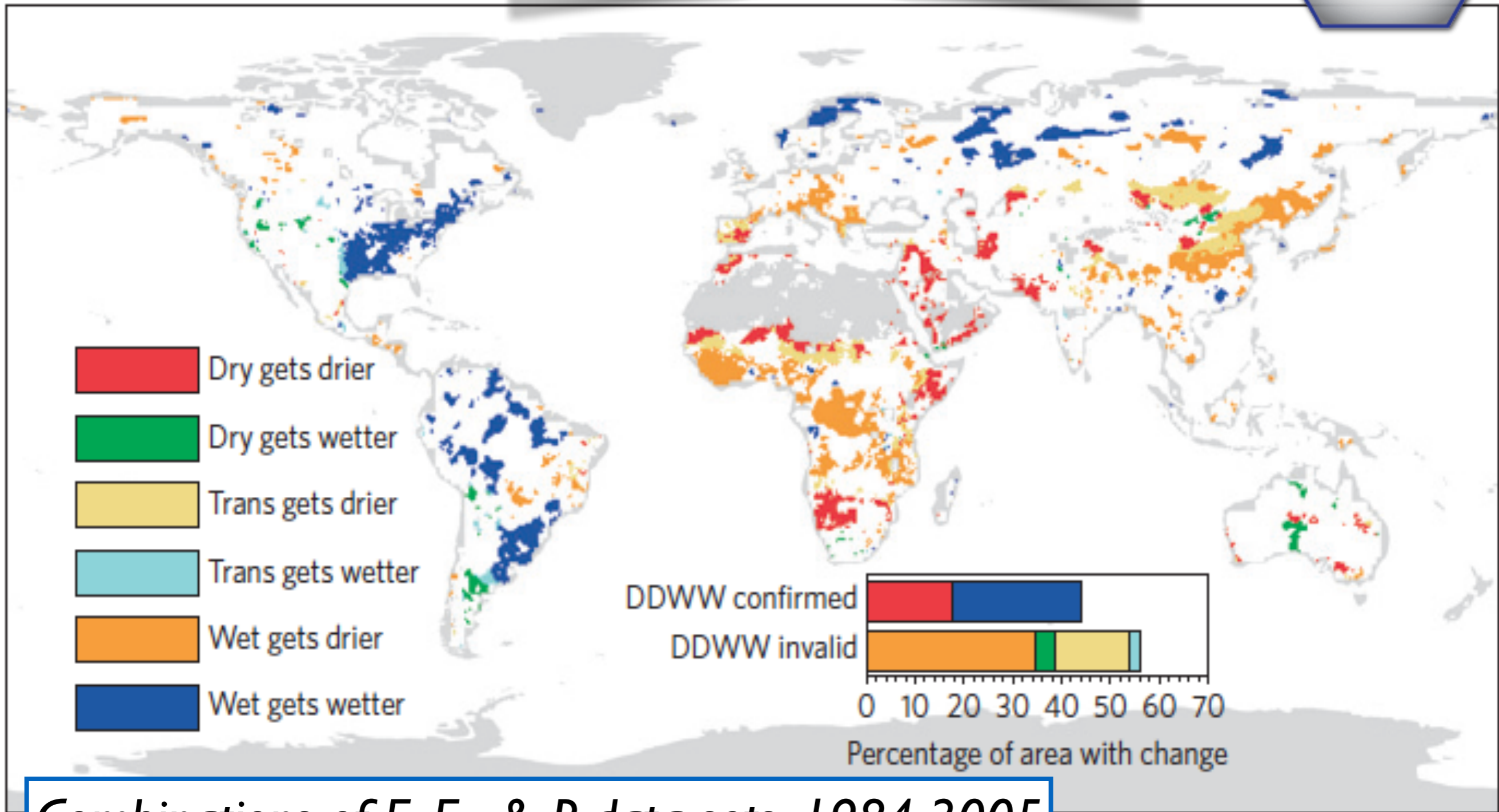
Slangen et al. 2014
doi: 10.1007/s10584-014-1080-9

*regional
sea level*



CMIP5 (RCP 4.5): ocean heat, dynamics, atmospheric pressure

Observations: regional land ice, land subsidence, GIA, gravity



Combinations of E , E_p , & P data sets, 1984-2005

Analysis & Prediction

Climate challenges the human spirit