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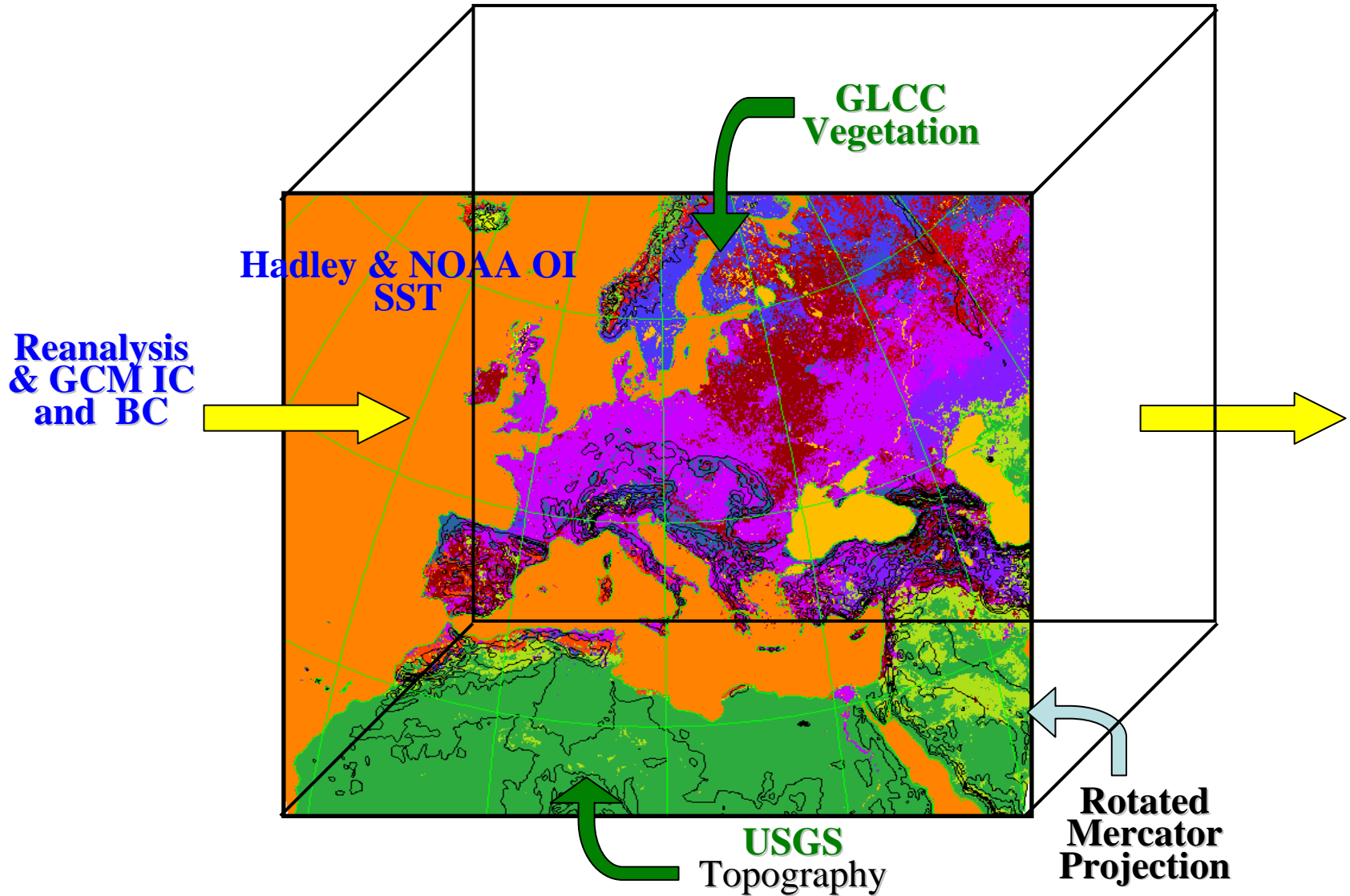
# Climate Change Scenarios for Turkey: ECHAM5 B1 Scenario with RegCM3

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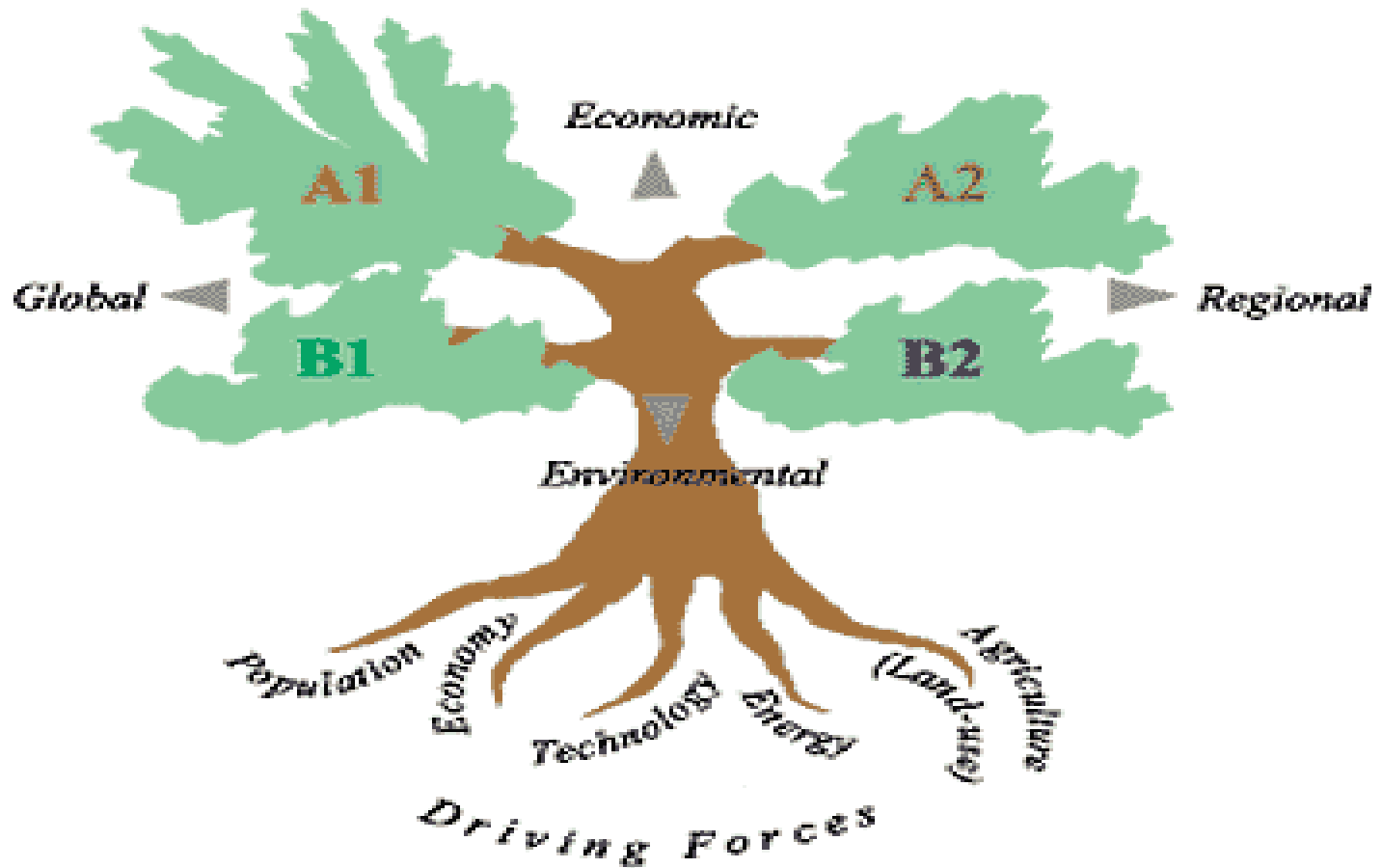
# RegCM3 MODEL: GENERAL STRUCTURE and INPUTS





# SRES SCENARIOS

## SRES Scenarios

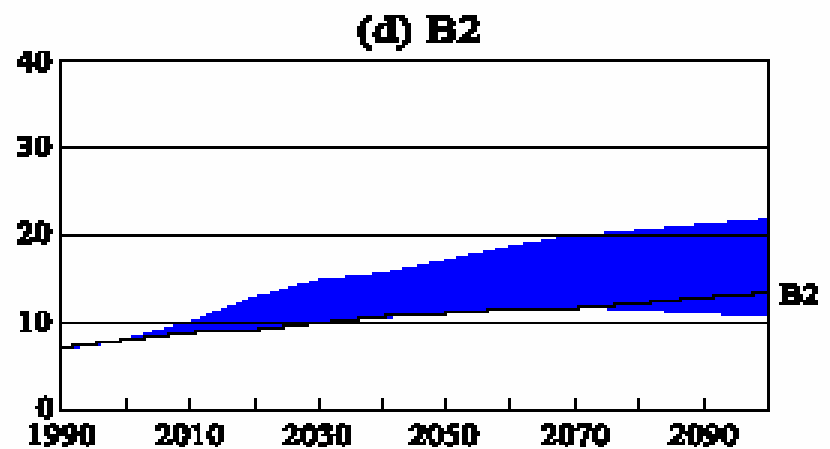
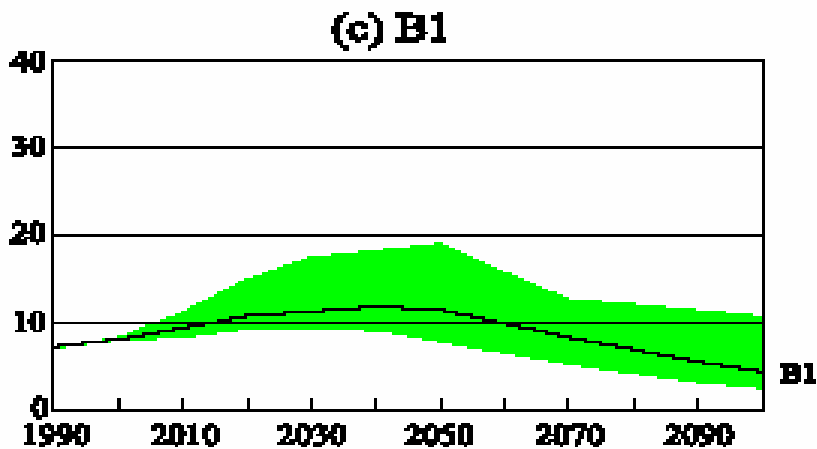
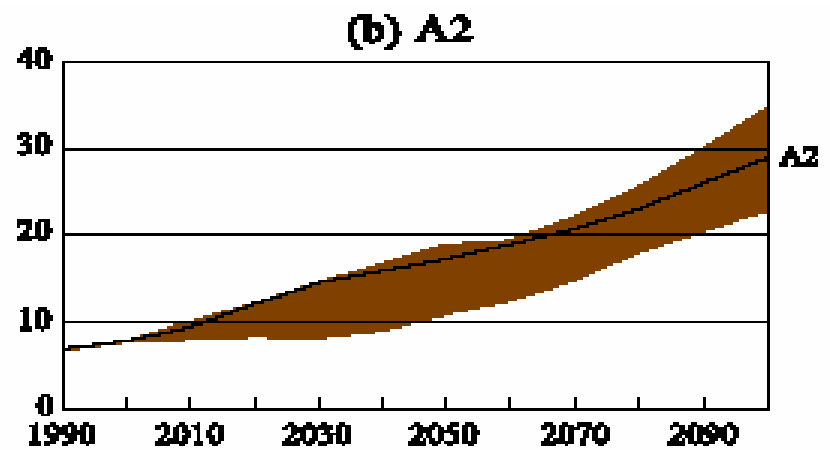
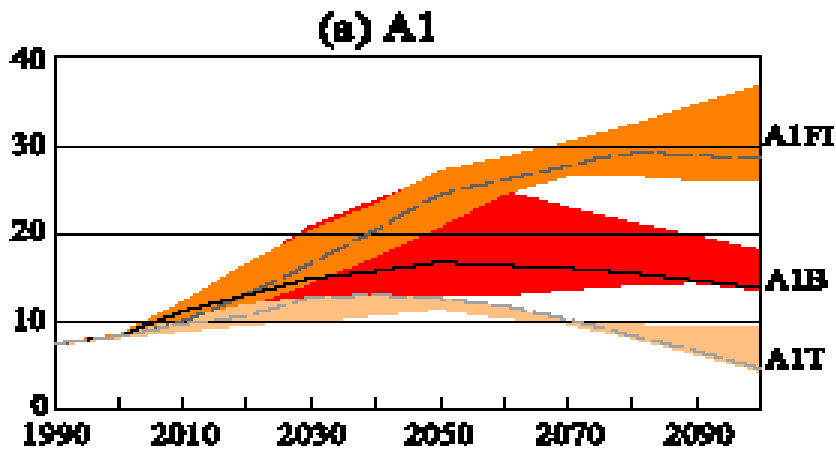


# Scenarios

- Four storylines (A1, A2, B1, B2)
- Six scenario groups – one each for A2, B1, B2, and three for A1 (A1F1 – fossil fuel intensive, A1B – balanced, A1T – predominantly non-fossil)
- Six modeling teams produced a total of 40 scenarios across these six groups
- You can check the scenarios themselves (and much more) at CIESIN: <http://sres.ciesin.org>

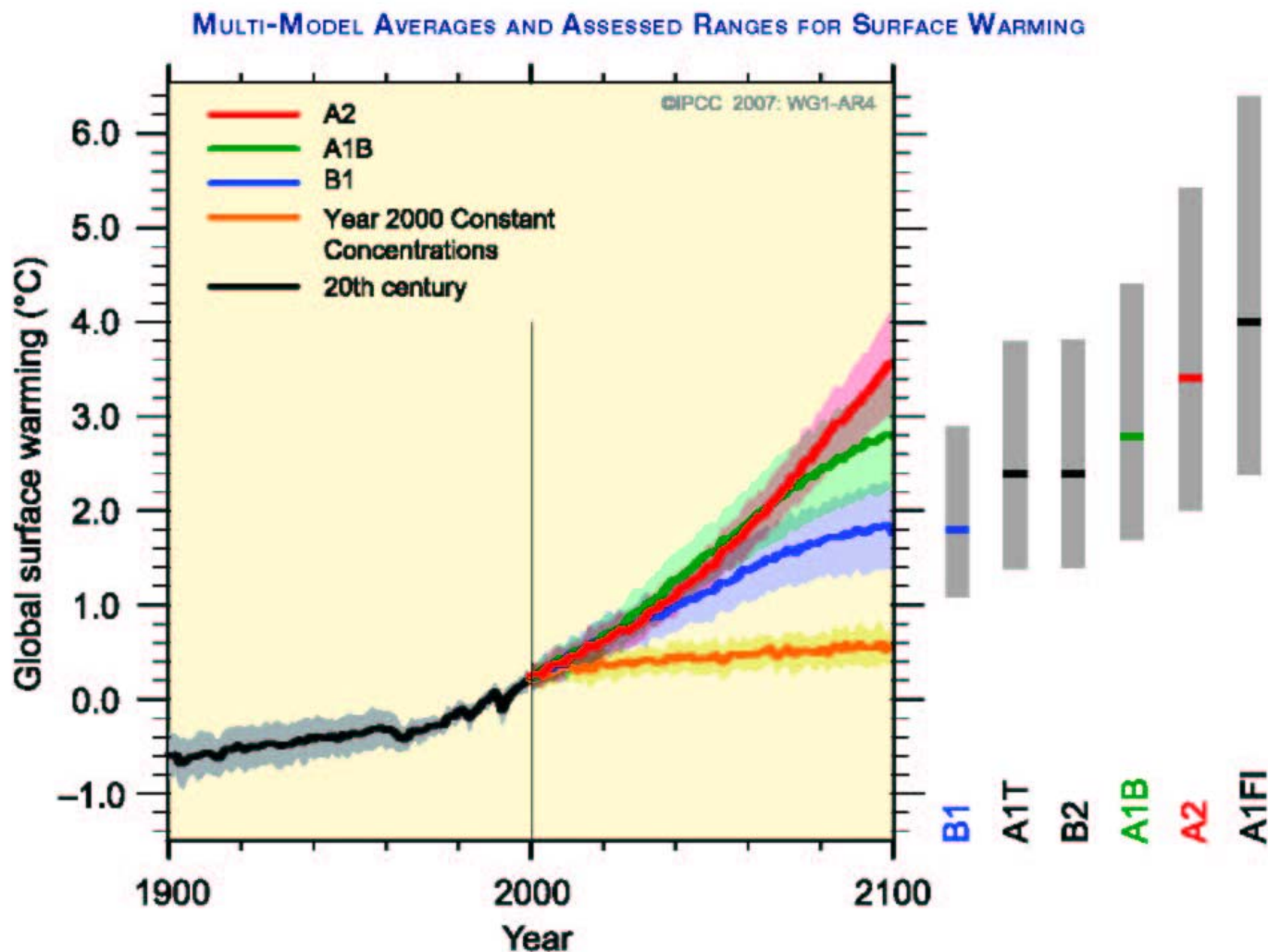


# With Different scenarios between 1990-2100 period from all sources (Energy, Industry and LULUCF etc.) total annual global CO<sub>2</sub> emission (GtC/year)





# Multi-Model Averages and Assessed Ranges for Surface Warming



# Characteristics of B1 Scenario

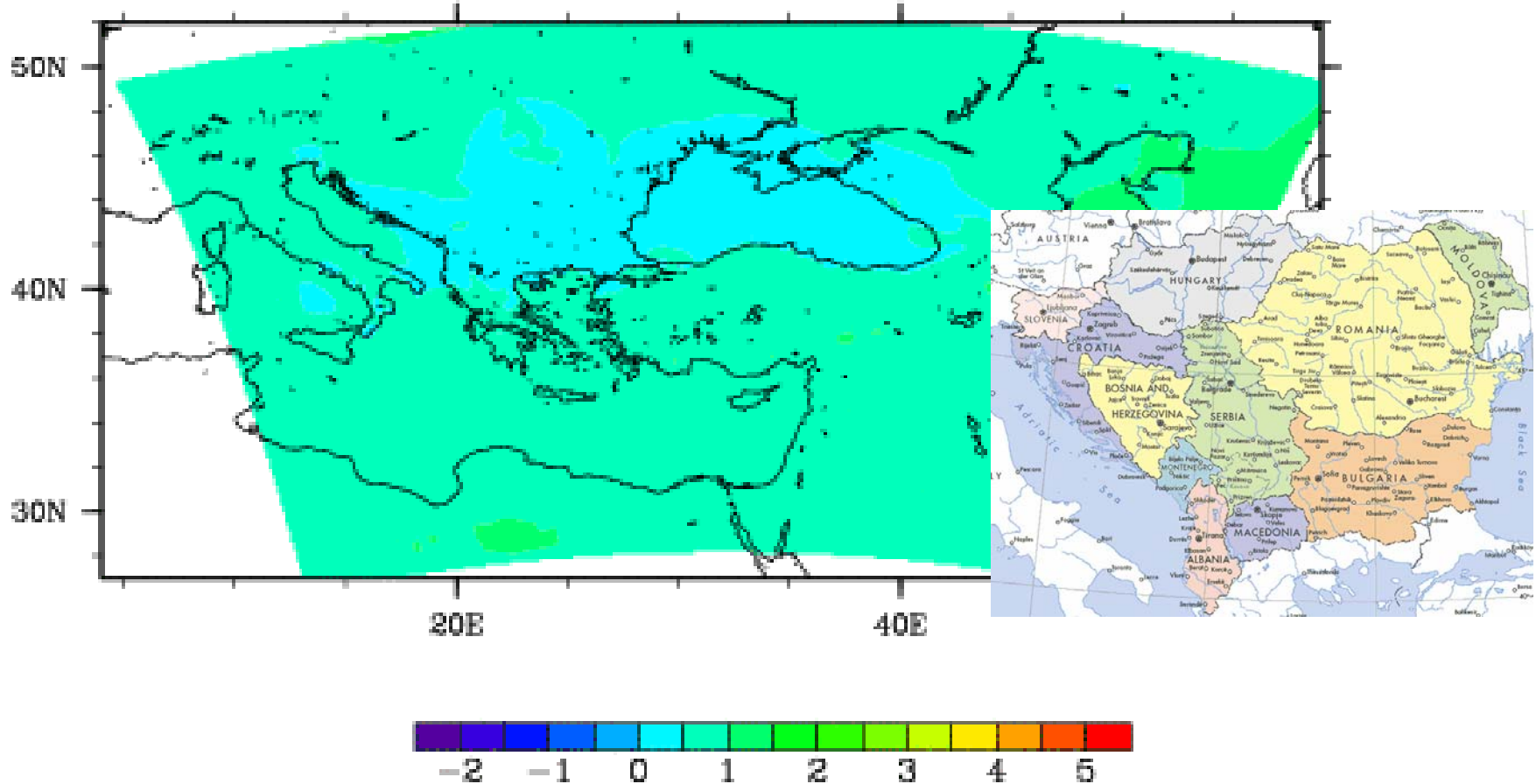
- Significant reductions in material/energy intensities
- Introduction of clean and resource-efficient technologies
- Rapid changes in economic structure toward a service and information economy
- Changes in behaviour and lifestyle
- Improved equity: convergence of incomes



# WINTER AVG. TEMP. CHANGE



DJF TEMP. CHANGE (2001-2025)-(1961-1990) C

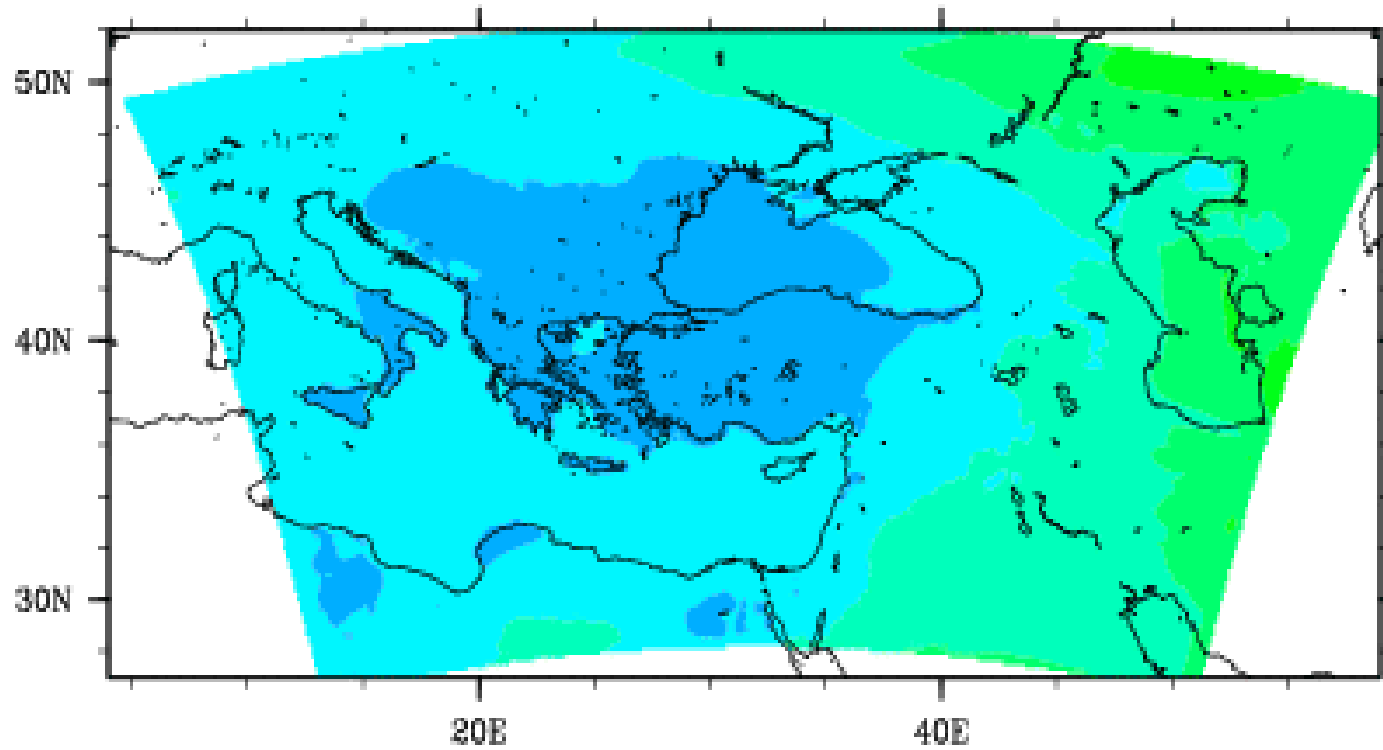




# SPRING AVG. TEMP. CHANGE

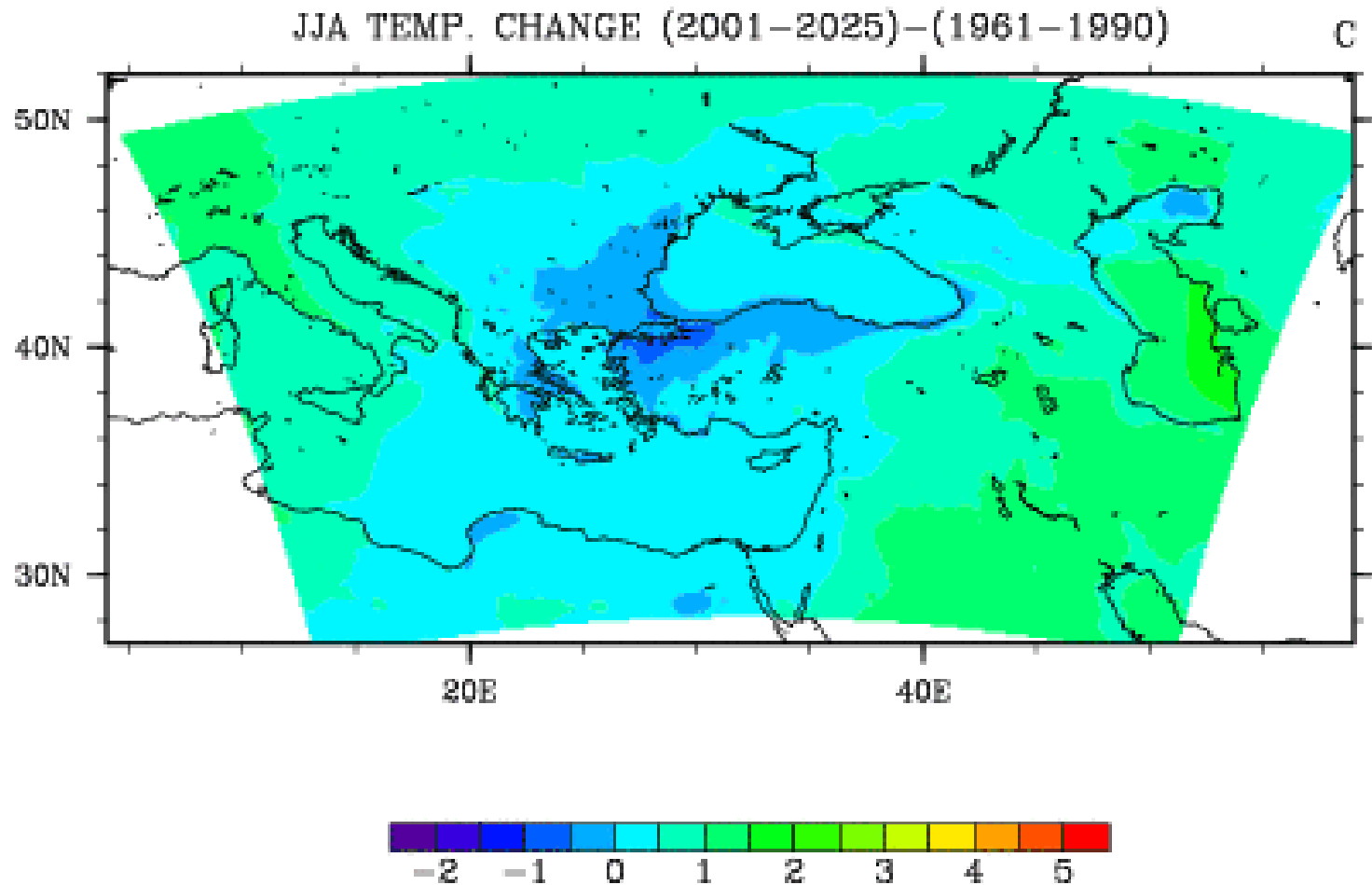


MAM TEMP. CHANGE (2001-2025)-(1961-1990) C





# SUMMER AVG. TEMP. CHANGE



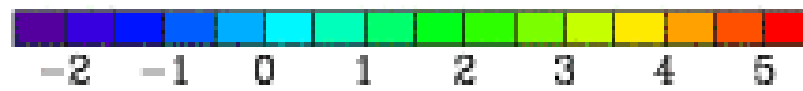
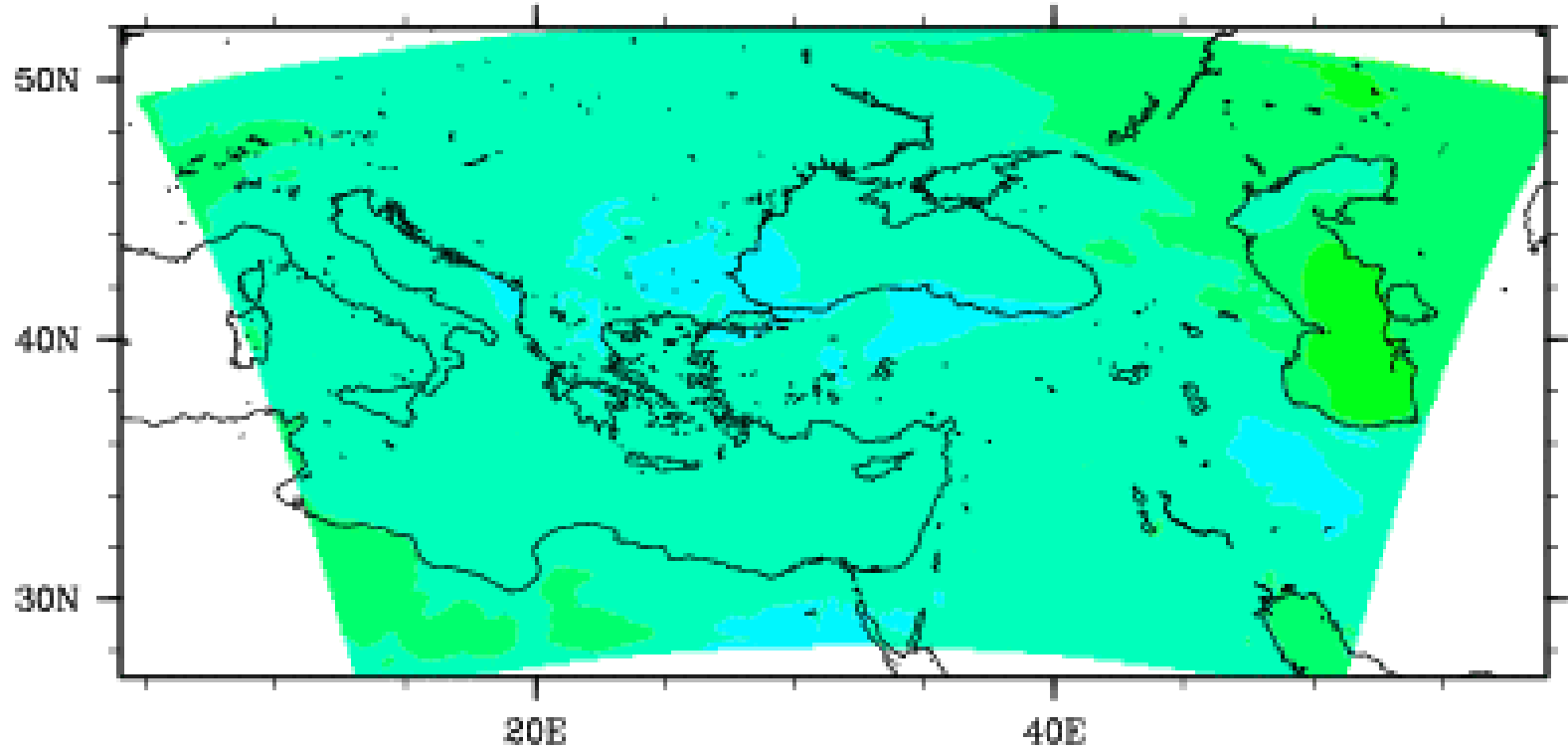


# FALL AVG. TEMP. CHANGE



SON TEMP. CHANGE (2001-2025)-(1961-1990)

C

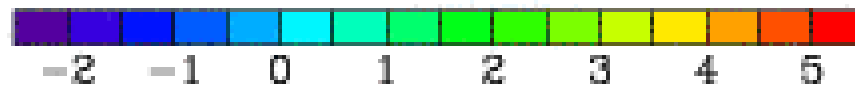
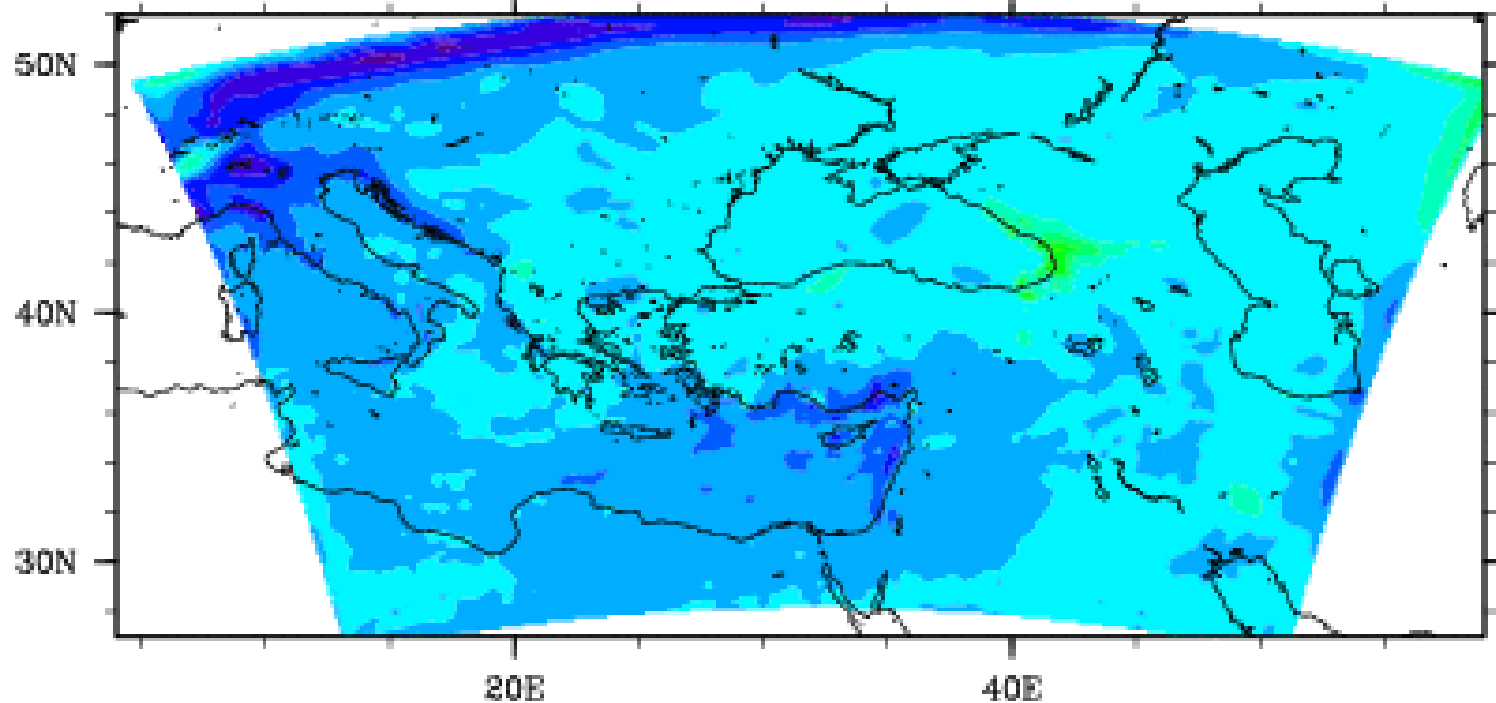




# WINTER PRECIP. CHANGE



DJF PREP. CHANGE (2001-2025)-(1961-1990) mm/day

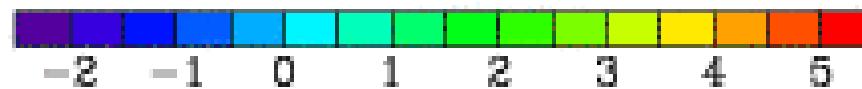
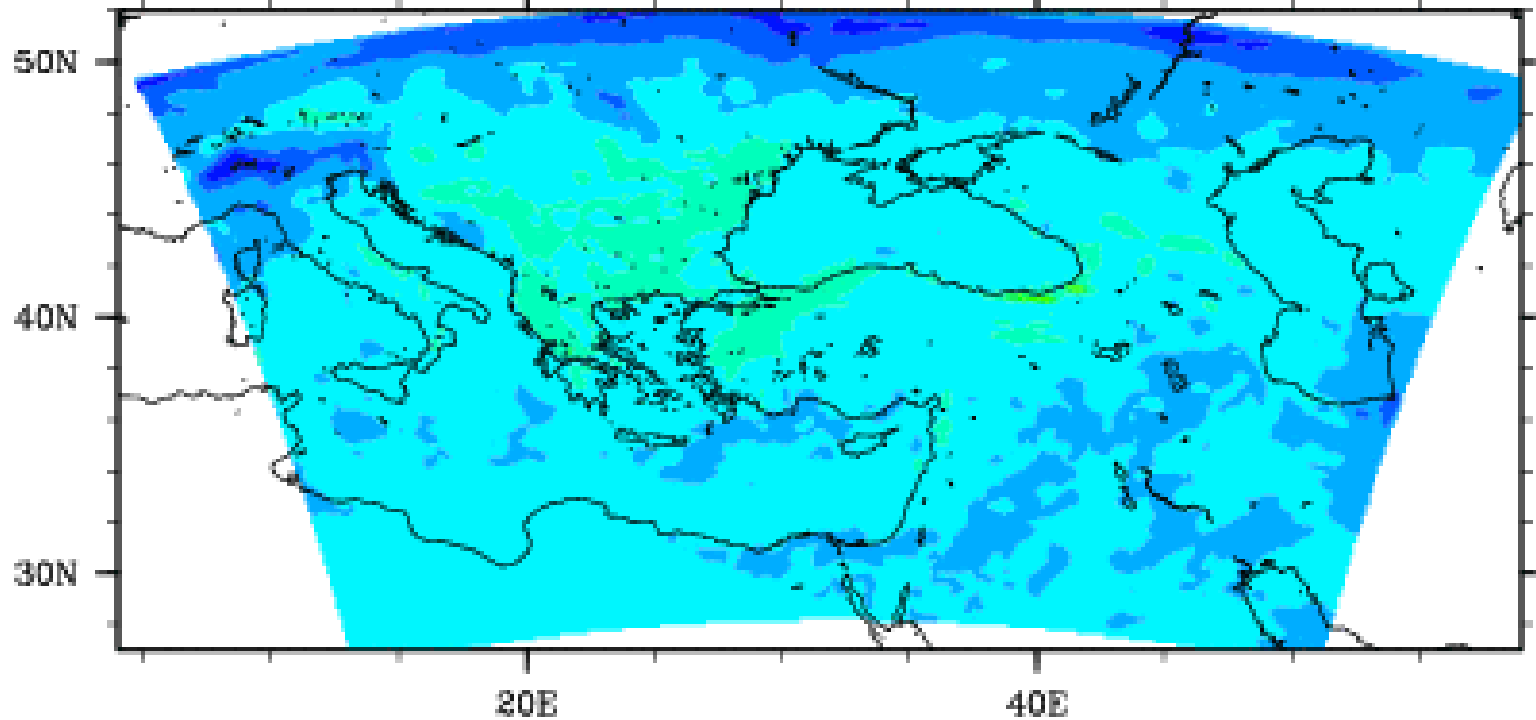




# SPRING PRECIP CHANGE



MAM PREP. CHANGE (2001–2025)–(1961–1990) mm/day

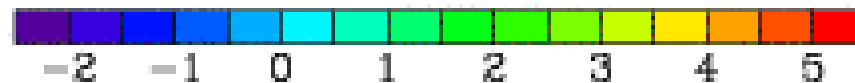
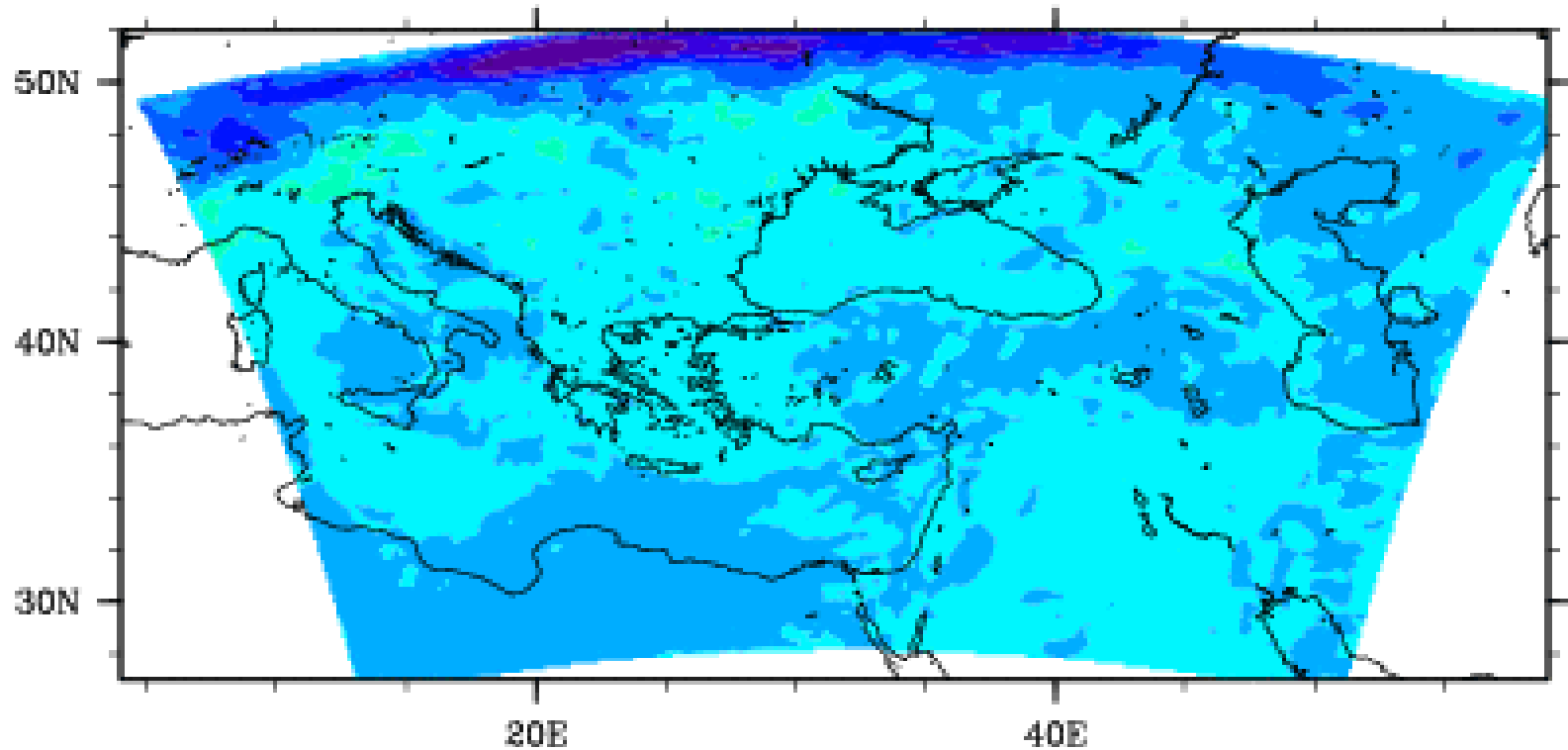




# SUMMER PRECIP. CHANGE



JJA PREP. CHANGE (2001-2025)-(1961-1990) mm/day

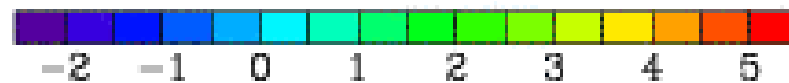
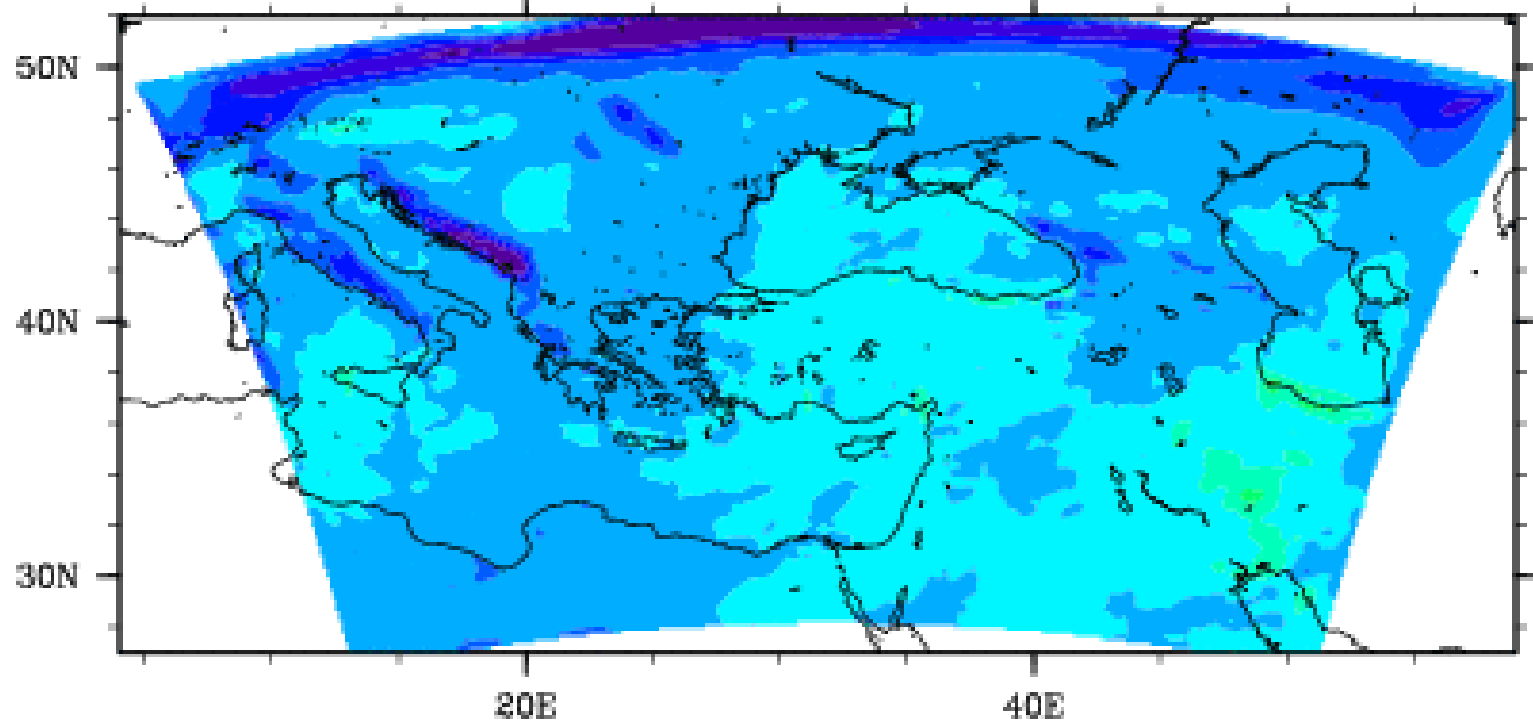




# FALL PRECIP. CHANGE



SON PREP. CHANGE (2001-2025)-(1961-1990) mm/day





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**Mustafa COŞKUN, İsmail DEMİR, Gönül KILIÇ**

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