Assessment of cereal production and food security under climate change in the Euro-Mediterranean Region

Risk assessment framework to evaluate, in a single map, climate change impacts on cereal production, including climate uncertainty, exposure and adaptation capacity

Yield anomalies
Cultivated area
Population density

Water deficit
Area equipped for irrigation
Irrigation

Hum. dev. index

Agreement across models

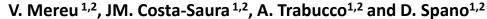
Change on Cereal Production per Capita

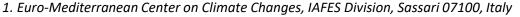
Potential Irrigation Capacity
[(Realtive area equipped for irrigation * water deficit)
- Relative area cultivated]

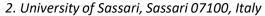
Potential Socioeconomic Capacity

Capacity

Operational Tactical Strategic





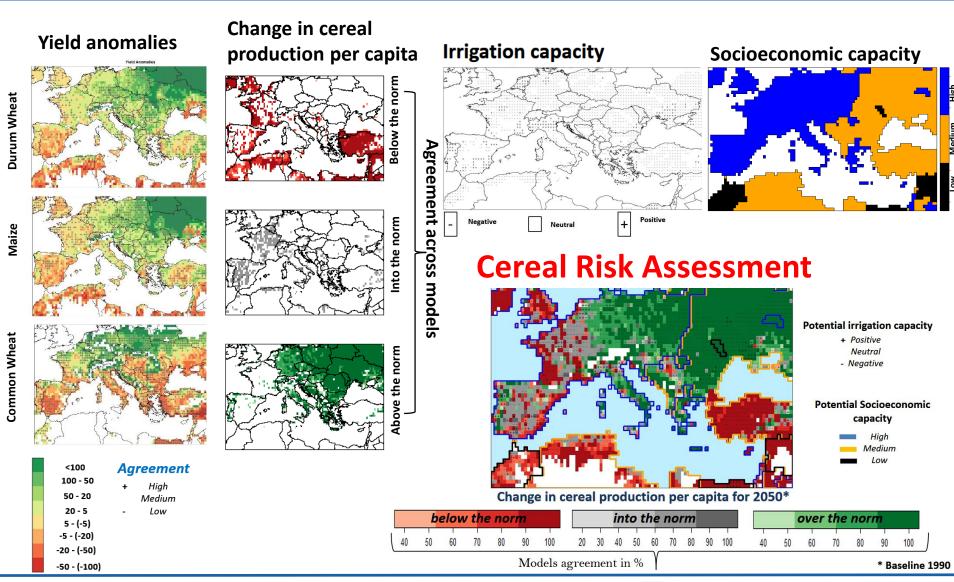






Results-risk assessment

4D-FRAMEWORK



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