

CLIMATE CHANGE IN THE MEDITERRANEAN REGION Some maps on the major stakes

Climate change in the Mediterranean countries





Source: IPCC, 2007; Water stress: Revenga & Döll, 2000 updated by Alcamo & al., 2003; World Resources Institute, 2007; Rogers & Randolph in: Science, 2000; Agricultural output: Fischer & al., 2005; Plan Bleu, 2009.

Human-caused climate change a major factor in more frequent Mediterranean droughts

Severity of the Mediterranean drought

55N

An increasing human pressure on the coast: 1600 cities, 100 million inhabitants

Population of coastal Mediterranean cities







Reds and oranges highlight lands around the Mediterranean that experienced significantly drier winters during 1971-2010 than the comparison period of 1902-2010. Source: NOAA.

Sea level rise between 1999 and 2006

Sea level is rising significantly in the Eastern Mediterranean, with an average 12 cm rise registered on the Levantine coast since

1992.

Source: UNEP/MAP RAC-Plan Bleu, based on different sources, 2013.

The Mediterranean Sea will experience a warming of 2 to 4°C at the end of 21st century.

> Composite of sea surface temperature anomalies maxima (top) and minima (bottom) for the 2070–2099 period (vs. 1961–1990)





Source: GRID, Arendal from LEGOS-GRGS-CNES (TOPEX/Poseidon project)

The largest (maxima) or smaller (minima) anomaly out of the 6 scenario simulations is represented at each grid point. Units are in °C. Source: Mediterranean Sea response to climate change in an ensemble of twenty first century scenarios. Climate Dynamics, 2015

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