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Economic Point of View) -- 8. Water and People: Assessing Policy Priorities for Climate Change Adaptation in the Mediterranean -- 9. Adaptation Strategies for the Mediterranean -- 10. Health -- 11. Energy Demand and GHG Mitigation Options -- 12. Mediterranean Tourism and Climate Change: Identifying Future Demand and Assessing Destinations' Vulnerability -- 13. International Retirement Migration from Northern Europe to the Mediterranean: New Results on the Role of Climate With a Possible Application to Climate Change -- 14. Green Growth in the Mediterranean -- Summary and Major Findings -- Index.

Sommario/riassunto

This is volume 2 of a three-volume final report which thoroughly describes, synthesizes and analyzes the results of the four-year Integrated Research Project CIRCE – Climate Change and Impact Research: Mediterranean Environment, funded by the EU 6th Framework Programme. Conducted under the auspices of the National Institute of Geophysics and Volcanology in Rome, Italy, CIRCE was designed to predict and to quantify the physical impacts of climate change in the Mediterranean, and to assess the most influential consequences for the region's population. This volume incorporates Parts 3 and 4 of the report, reviewing current knowledge of observed climate variability and trends in the Mediterranean, and including descriptions of available temperature and precipitation station and gridded data sets. Part 3 is devoted to ecosystem services, and discusses projected climate changes and impacts in the Mediterranean, including an analysis of land use changes and a vulnerability assessment of possible changes under greenhouse concentration scenarios, estimating uncertainties, detecting and attributing past and present changes, understanding mechanisms and evaluating their relevance in the problem of climate change. Part 4 offers an overview of water resources, and reviews the impacts of climate change on the hydrological cycle of the region, by means of analyses of socio-economic impacts of climate change in the region. Volume 1, subtitled Air, Sea and Precipitation, comprises Parts 1 and 2 of the report, which reviews current knowledge of observed climate variability and trends in the Mediterranean, and includes descriptions of available temperature and precipitation station data. Volume 3 presents case studies performed in CIRCE, representing urban, rural and coastal environments and drawn from the north and the south of the Mediterranean shore. Regional Assessment of Climate Change in the Mediterranean represents a research initiative of unprecedented size and scope. Each volume is carefully constructed to stand alone, offering a wealth of information and insight. Beyond its own significant value, the report is expected to contribute to a rapidly expanding body of research and analysis on the topic.
