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of Climate Change on Household Income for Syria, Tunisia, and the Republic of Yemen; 1.2 The Bedouin's Assets to Cope with Drought, 1990 and 2010; Climate Change Adaptation Is about Reducing Vulnerability; 1.4 Definitions of Climate Change Adaptation; 1.3 Conceptual Framework for Defining Vulnerability  
Climate Change Adaptation Should Be an Integrated Part of Public Sector Management for Sustainable Development  
1.4 The Adaptation Pyramid: A Framework for Action on Climate Change Adaptation; Notes; 1.5 Jordan Desert Ecosystems and Livelihoods Project; References; 2 Ways Forward for Climatology; 2.1 Some Basic Definitions; Despite Sparse Observational Data, the Projections Are That Most of the Arab Region Is Becoming Hotter and Drier; Maps; 2.1 Spatial Distribution of Stations with at Least 10 Years of Monthly Rainfall  
2.2 Rainfall Stations in the Republic of Yemen Run by the Ministry of Irrigation and Agriculture, 2007  
2.2 Observational Networks; 2.3 Access to Data; 2.3 Rainfall in Arab Countries and Year-to-Year Variations; 2.4 Positive Temperature Trends Seen in the Majority of Available Ground Stations; 2.4 Capacity Building Using Regional Climate Information; 2.5 Spatial Distribution of Rainfall from a Study Conducted in the Region, 1998-2009; 2.1 Change in Days with Maximum and Minimum Temperatures; IPCC AR4 Projects Warming and Aridity  
2.6 Projected Surface Temperature Changes for the Early and Late 21st Century Relative to the Period 1980-99  
2.7 Temperature and Rainfall Changes over Africa (and the Arabian Peninsula) Based on 21 IPCC AR4 Models under the IPCC A1B Scenario; 2.8 Projected Climate Change for Late This Century; 2.9 Annual Mean Temperature Response in Africa in 2 out of 21 IPCC AR4 Models; 2.10 Changes in Rainfall Extremes Based on Multimodel Simulations from Nine Global Coupled Climate Models; Downscaled Projections Are Available for the Region; 2.5 Climate Models and Downscaling  
2.11 Example of the Benefit from High-Resolution Modeling

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Sommario/riassunto

In the Arab countries, climate change is a risk to poverty reduction and economic growth, threatening to unravel many of the development gains that have been achieved. The Arab Region is already suffering adverse consequences from climate variability and change. This book provides information on climate change and its impact in the Arab Region, as well as technical guidance on climate adaptation options for policy makers. The areas addressed include the economic impacts of climate change (as measured by the reduction in household income and GDP); the impacts of climate change on the water, hea

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