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Temperate Climates; Chapter 11. Impact assessment of combined climate and management scenarios on groundwater resources. The Inca-Sa Poble hydrogeological unit (Majorca, Spain); Chapter 12. The effect of climate and anthropogenic sea level changes on Israeli coastal aquifers; Chapter 13. Land subsidence and sea-level rise threaten fresh water resources in the coastal groundwater system of the Rijnland water board, The Netherlands
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Chapter 15. Possible effects of climate change on groundwater resources in the central region of Santa Fe Province, Argentina; Continental Climates; Chapter 16. Impacts of drought on groundwater depletion in the Beijing Plain, China; Chapter 17. Possible effects of climate change on hydrogeological systems: results from research on Esker aquifers in northern Finland; Polar Climates
Chapter 18. Impacts of climate change on groundwater in permafrost areas: case study from Svalbard, Norway
Various Climates; Chapter 19. Groundwater management in Asian cities under the pressures of human impacts and climate change; Chapter 20. Evaluation of future climate change impacts on European groundwater resources; Chapter 21. Sustainable groundwater management for large aquifer systems: tracking depletion rates from space; Chapter 22. Major science findings, policy recommendations, and future work; Contributing authors and contact information; Back Cover

Sommario/riassunto

Climate change is expected to modify the hydrological cycle and affect freshwater resources. Groundwater is a critical source of fresh drinking water for almost half of the world's population and it also supplies irrigated agriculture. Groundwater is also important in sustaining streams, lakes, wetlands, and associated ecosystems. But despite this, knowledge about the impact of climate change on groundwater quantity and quality is limited. Direct impacts of climate change on natural processes (groundwater recharge, discharge, storage, saltwater intrusion, biogeochemical reactions, chemical fate
