

1. Record Nr.	UNINA9910437941103321
Autore	Dong Wenjie
Titolo	The atlas of climate change : based on SEAP-CMIP5 : super-ensemble projection and attribution (SEAP) of climate change // Wenjie Dong ... [et al.]
Pubbl/distr/stampa	Heidelberg, : Springer, 2013
ISBN	3-642-31773-1
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (209 p.)
Collana	Springer earth system sciences
Disciplina	551.6
Soggetti	Climatic changes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Data and Methodology -- Climate change simulation and projection based on CMIP5 -- Attribution of responsibility for climate change from developed/developing countries.
Sommario/riassunto	"The Atlas of Climate Change—Based on SEAP-CMIP5" is intended to satisfy readers' curiosity: how will our climate system change over the next 100 years? It is the first showcase for the state-of -the-art earth system models that released their CMIP5 simulations for the IPCC AR5. The atlas focuses on both the past climate system change from 1850 and the projection of the future climate system change to 2100 using the RCP2.6, RCP4.5 and RCP8.5 scenarios based on climate models. This provides the research and application community interested in the impact of climate change on fields such as agriculture, ecosystem, environment,water resources, energy, health, economy, risk governance and international negotiation, etc. with the newest climate change projection information. Additionally, the atlas will show the historical responsibility of the developed/developing countries and possible contributions to the mitigation of climate change according to their pledge of GHG emission reduction after the Cancun Agreement as an extension numerical experiment to CMIP5 with NCAR's CESM1.0. The authors will update this atlas after future releases of CMIP5 model outputs and update the figures in the second edition of the atlas in 2012-2013. Both Prof. Wenjie Dong and Yan Guo work at the Beijing Normal University, China. Prof. Fumin Ren works at the China

Meteorological Administration, China. Prof. Jianbin Huang works at the  
Tsinghua University, China.

---