

1. Record Nr.	UNINA9910484543003321
Titolo	Climate change in Poland : past, present, future // Magorzata Falarz, editor
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-70328-2
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XV, 581 p. 279 illus., 250 illus. in color.)
Collana	Springer Climate, , 2352-0698
Disciplina	363.7387409438
Soggetti	Climatic changes - Poland Climatic changes Poland
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Initial research of climate change in Poland -- Data and methods of investigations -- Homogeneity of climate series -- Climate change before instrumental measurements -- Change of atmospheric circulation -- Air pressure change -- Solar radiation change -- Change of sunshine -- Change of cloudiness -- Air temperature change -- Air humidity change -- Precipitation change -- Snow cover change -- Change of wind -- Change of selected meteorological phenomena -- Change of bioclimatic indices -- Change of weather types -- Projections of temperature changes in Poland -- Projections of precipitation changes in Poland -- Projected changes in thermal indices related to the agriculture and energy sectors -- Climate change in Poland – summary, discussion and conclusion.
Sommario/riassunto	This edited book provides a comprehensive overview of the past, present and future climate development in Poland. The book consists of three main parts. The first part presents the results of the study of climate change before instrumental measurements in Poland in the last millennium. The second part analyses the long-term changes and variability of 36 climate characteristics for 14 climate elements, indices, meteorological phenomena and weather types using data from 79 weather stations in the base period 1951–2018 and for long series up

to 239 years (1780–2018). The particular attention is paid to climate extremes. The third part of the book deals with projected changes in temperature, precipitation and thermal indices related to the agriculture and energy sectors. Two future time horizons are carried out: 1) near future: 2021–2050 and 2) far future: 2071–2100. The results for Poland are compared to those from Europe and other parts of the world. The book is addressed to scientists (climatologists, geographers, etc.), academic teachers, students, journalists and all those interested in Poland and climate change in Poland.
