

1. Record Nr.	UNINA9910299437303321
Titolo	Impact of Climate Changes on Marine Environments / / edited by Tymon Zielinski, Marcin Weslawski, Karol Kuliski
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-14283-6
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (156 p.)
Collana	GeoPlanet: Earth and Planetary Sciences, , 2190-5193
Disciplina	055 551.46 577.27 628
Soggetti	Oceanography Environmental sciences Climatic changes Environmental Science and Engineering Climate Change
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	Introduction -- Impact of breaking waves on sea salt production and local change of aerosol optical properties -- Annual changes of aerosol optical depth and Ångström exponent over Spitsbergen -- Sea spray aerosol fluxes in the near water boundary layer – review of recent achievements -- Acoustical and optical methods in Arctic zooplankton studies -- Submarine groundwater discharge to the Bay of Puck, southern Baltic Sea and its possible changes with regard to predicted climate changes -- Climate change influence on migration of contaminants in the Arctic marine environment -- The adaptations of the Foraminifera and Ostracoda to fresh water colonization -- Microbiological survey in two Arctic fjords: total bacterial number and biomass comparison of Hornsund and Kongsfjorden -- New methods in the reconstruction of Arctic marine palaeoenvironments.
Sommario/riassunto	This book contributes to the current discussion on global environmental changes by discussing modifications in marine

ecosystems related to global climate changes. In marine ecosystems, rising atmospheric CO₂ and climate changes are associated with shifts in temperature, circulation, stratification, nutrient input, oxygen concentration and ocean acidification, which have significant biological effects on a regional and global scale. Knowing how these changes affect the distribution and abundance of plankton in the ocean currents is crucial to our understanding of how climate change impacts the marine environment. Ocean temperatures, weather and climatic changes greatly influence the amount and location of nutrients in the water column. If temperatures and currents change, the plankton production cycle may not coincide with the reproduction cycle of fish. The above changes are closely related to the changes in radiative forcing, which initiate feedback mechanisms like changes in surface temperature, circulation, and atmospheric chemistry.
