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Autore	Marshall John <1954->
Titolo	Atmosphere, ocean, and climate dynamics [[electronic resource]] : an introductory text / / John Marshall and R. Alan Plumb
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Collana	International geophysics series ; ; v. 93
Altri autori (Persone)	PlumbR. Alan <1948->
Disciplina	551.5/246
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references (p. 303-305) and index.
Nota di contenuto	Characteristics of the atmosphere -- The global energy balance -- The vertical structure of the atmosphere -- Convection -- The meridional structure of the atmosphere -- The equations of fluid motion -- Balanced flow -- The general circulation of the atmosphere -- The ocean and its circulation -- The wind-driven circulation -- The thermohaline circulation of the ocean -- Climate and climate variability.
Sommario/riassunto	For advanced undergraduate and beginning graduate students in atmospheric, oceanic, and climate science, Atmosphere, Ocean and Climate Dynamics is an introductory textbook on the circulations of the atmosphere and ocean and their interaction, with an emphasis on global scales. It will give students a good grasp of what the atmosphere and oceans look like on the large-scale and why they look that way. The role of the oceans in climate and paleoclimate is also discussed. The combination of observations, theory and accompanying illustrative laboratory experiments sets this text apart by m