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| 1. Record Nr. | UNINA9910971386403321 |
| Autore | Marshall John |
| Titolo | Atmosphere, ocean, and climate dynamics : an introductory text // John Marshall and R. Alan Plumb |
| Pubbl/distr/stampa | Amsterdam ; ; [Burlington, MA], : Elsevier Academic Press, c2008 |
| ISBN | 0125586914 (hbk.) 9786612540400 9780125586917 (hbk.) 9781282540408 1282540408 9780080556703 0080556701 |
| Edizione | [1st ed.] |
| Descrizione fisica | xx, 319 p. : ill. (some col.), maps (some col.), ports. ; ; 27 cm |
| Collana | International geophysics series ; ; v. 93 |
| Altri autori (Persone) | PlumbR. Alan <1948-> |
| Disciplina | 551.5246 |
| Soggetti | Atmospheric circulation Ocean-atmosphere interaction Ocean circulation Fluid dynamics Atmospheric thermodynamics |
| 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 (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
