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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, <i>Atmosphere, Ocean and Climate Dynamics</i> 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
