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Titolo	Mixed-phase clouds : observations and modeling // edited by Constantin Andronache
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Descrizione fisica	1 online resource (302 pages) : illustrations (some color), graphs
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	; Chapter 1. Introduction / Constantin Andronache -- ; Chapter 2. Ice nucleation in mixed-phase clouds / Thomas F. Whale -- ; Chapter 3. Detection of mixed-phase clouds from shortwave and thermal infrared satellite observations / Yoo-Jeong Noh, Steven D. Miller -- ; Chapter 4. Microphysical properties of convectively forced mixed-phase clouds / Robert Jackson, Jeffrey French, Joseph Finlon -- ; Chapter 5. Characterization of mixed-phase clouds : contributions from the field campaigns and ground based networks / Constantin Andronache -- ; Chapter 6. Spaceborne remote sensing and airborne in situ observations of arctic mixed-phase clouds / Guillaume Mioche, Olivier Jourdan -- ; Chapter 7. Simulations of arctic mixed-phase boundary layer clouds : advances in understanding and outstanding questions / Ann M. Fridlind, Andrew S. Ackerman -- ; Chapter 8. Subgrid representation of mixed-phase clouds in a general circulation model / Kalli Furtado -- ; Chapter 9. Mixed-phase cloud feedbacks / Daniel T. McCoy, Dennis L. Hartmann, Mark D. Zelinka -- ; Chapter 10. The climatic impact of thermodynamic phase partitioning in mixed-phase clouds / Ivy Tan, Trude Storelvmo, Mark D. Zelinka.
Sommario/riassunto	Mixed-Phase Clouds: Observations and Modeling presents advanced research topics on mixed-phase clouds. As the societal impacts of extreme weather and its forecasting grow, there is a continuous need

to refine atmospheric observations, techniques and numerical models. Understanding the role of clouds in the atmosphere is increasingly vital for current applications, such as prediction and prevention of aircraft icing, weather modification, and the assessment of the effects of cloud phase partition in climate models. This book provides the essential information needed to address these problems with a focus on current observations, simulations and applications.
