



Springer

1.
Auflage1st ed. 2018, VIII, 396 p.
144 illus., 134 illus. in color.**Gedrucktes Buch**

Hardcover

Gedrucktes Buch

Hardcover

ISBN 978-3-319-77272-1

£ 109,99 | CHF 132,00 | 119,99 € |
131,99 € (A) | 128,39 € (D)

lieferbar

Rabattgruppe

Science (SC)

Produktkategorie

Sammelband

Reihe

Space Sciences Series of ISSI

Other renditions

Softcover

ISBN 978-3-030-08415-8

Geowissenschaften : Atmosphärische Wissenschaften

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Shallow Clouds, Water Vapor, Circulation, and Climate Sensitivity

- Provides a comprehensive view of the role of clouds and water vapor in helping control the past, present, and future large-scale circulations, with impacts on climate sensitivity
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This volume presents a series of overview articles arising from a workshop exploring the links among shallow clouds, water vapor, circulation, and climate sensitivity. It provides a state-of-the-art synthesis of understanding about the coupling of clouds and water vapor to the large-scale circulation. The emphasis is on two phenomena, namely the self-aggregation of deep convection and interactions between low clouds and the large-scale environment, with direct links to the sensitivity of climate to radiative perturbations. Each subject is approached using simulations, observations, and synthesizing theory; particular attention is paid to opportunities offered by new remote-sensing technologies, some still prospective. The collection provides a thorough grounding in topics representing one of the World Climate Research Program's Grand Challenges.

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ISBN 978-3-319-77272-1 / BIC: RB / SPRINGER NATURE: SCG36000

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