pproaches to the parametrization of the boundary layer

Boundary layer, clouds and convection

Feedback and Sensitivity in Climate

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Approaches to the parametrization of the boundary layer

Boundary layer, clouds and convection

Outline

1 Boundary layer processes in climate

- Boundary layer as a boundary condition
- Boundary layer and clouds
- Boundary layer in the "Earth Systemp"
- 2 Approaches to the parametrization of the boundary layer
 - Scale decomposition
 - Diffusive approaches and their limitations
 - Alternatives to diffusive approaches
- **3** Boundary layer, clouds and convection
 - Could schemes in climate models
 - Cumulus clouds and mass flux parametrisations
 - Boundary layer and deep convection

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Figure: ClimSI WV feedback model responses.

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