

## RCEMIP MODEL DOCUMENTATION FORM

Please fill out the below with the relevant information for the model simulations you are submitting to RCEMIP. If you are submitting multiple sets of simulations from multiple versions or configurations of a model, please fill out a documentation form for each.

### Your information

Your Name: David M. Romps

Your Institution: University of California, Berkeley

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### Model information

Model Name/Version: Das Atmosphaerische Modell (DAM)

Model Name Abbreviation (\$MDL used in upload to DKRZ Cloud): dam

Citation for model: David M. Romps, "The dry-entropy budget of a moist atmosphere,"  
Journal of Atmospheric Sciences, vol. 65, no. 12, 3779–3799, 2008

### Model dynamical core

Type of grid (cartesian, spherical): Cartesian, doubly periodic

Dynamical core (e.g. finite volume): Finite volume

Time step: Variable: 7 s to 20 s, depending on the CFL condition

### Grid information

RCE\_small, number of grid points: 108 x 108 x 74 (NX x NY x NZ)

RCE\_small, horizontal grid spacing: 1000 m

RCE\_large, number of grid points: 2592 x 144 x 74 (NX x NY x NZ)

RCE\_large, horizontal grid spacing: 2500 m

Number of vertical levels: 74

Vertical levels: dz = 74 m stretching to 500 m (by z = 3 km), continued up to 33 km

Sponge layer: None

### Physics packages (fill out all applicable)

Radiation scheme: RRTMG

Microphysics scheme: Lin-Lord-Krueger

Boundary layer scheme: None, bulk aerodynamic scheme for surface fluxes

Convection scheme: None

Sub-grid scale turbulence scheme: None

Other: \_\_\_\_\_

### Other models-specific settings or parameters (beyond the specified RCEMIP parameters):

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