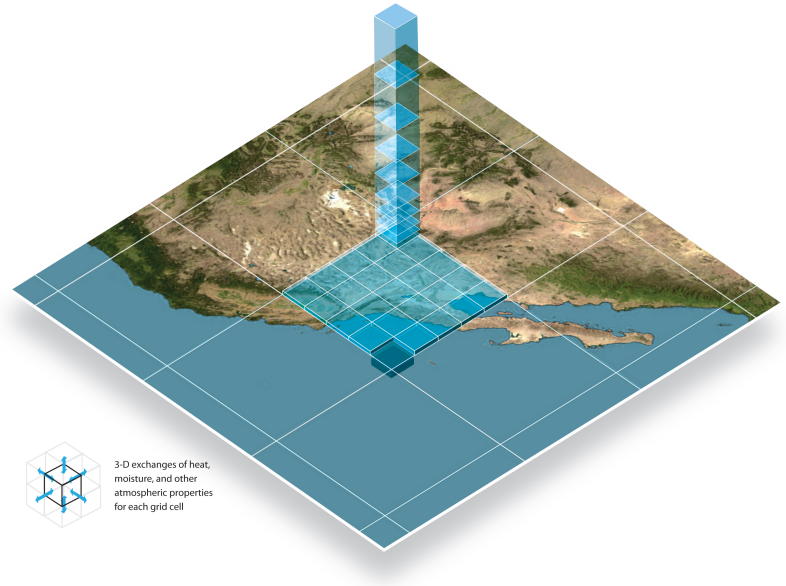
Single Column Model Overview

- Initial state (T, q, u, v) from observations, idealization, or model
- Forcing applied to mimic changes in column state from surrounding environment (replaces dycore)
  - 3 typical methods
    1. "total" advective forcing
    2. horizontal advection + prescribed vertical velocity
    3. 2 + nudging to observed profiles
- Physics responds to these changes and further modifies the column state
- End state is combination of forcing + physics



Pros

- Simple and cheap
- Interpretability
- Approachable

Cons

- Necessary, but not sufficient
- Forcing sensitivity