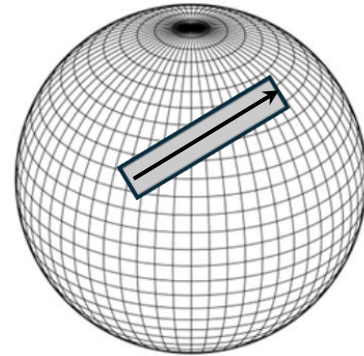**ICON-CoCiP in 2-way coupling**
ICON on multiple processors, CoCiP on 1 processor,
YAC-coupler

ICON
Integrates atmospheric dynamics on global icosahedral (triangular) grids with 2-moment ice microphysics including contrail-ΔT, Δq_v changes. Computes radiation using a radiation model (ecRad) accounting for contrail cover, ice water content, and number and size of contrail ice particles

For Contrail integration:
p, T, q_v, q_i, q_s, u, v, w, GP, TACI
and for diagnostics:
TOA-rad, SRF-rad, T_{2m}, Prec

For ICON dynamics: ΔT, Δq_v
For radiation: N_i, r_{eff}, cover, IWC of contrails

CoCiP initiates contrail segments along traffic (GAIA) in flight segments versus time, height, longitude and latitude when SAC fulfilled. Integrates contrail properties with nearest-neighbor or triangular interpolation in ICON data. Performs several Runge-Kutta time steps per ICON time step