## G7SST1-cirrus (GeoMIP)

*SSTs from year 2020 of SSP5-8.5; forcings and other prescribed conditions from year 2020 of SSP5-8.5 + cirrus thinning*

**Description:** Time slice at year 2020 of GeoMIP G7cirrus. Run for 10 years.

**Rationale:** To assess radiative forcing of G7cirrus at the beginning of the simulation (2020).

### Requirements

**2020-2029 10yrs**: Timeslice, begin in 2020 and run for 10 years.

**Increase Cirrus Sedimentation Velocity**: Add a local variable that replaces (in all locations where temperature is colder than 235K) the ice mass mixing ratio in the calculation of the sedimentation velocity with a value that is eight times the original ice mass mixing ratio. Cirrus seeding to begin in 2020 and continue through to the year 2100.

**SSP5-85 SST 2020**: Sea surface temperature climatology calculated from the ScenarioMIP SSP5-85 experiment for the year 2020.

**SSP5-85 SIC 2020**: Sea ice concentration climatology calculated from the ScenarioMIP SSP5-85 experiment for the year 2020.

**RCP85 Forcing**: Impose RCP8.5 forcing.
*Additional Requirements:*
• Representative Concentration Pathway 8.5 Well Mixed Greenhouse Gases
• Representative Concentration Pathway 8.5 Short Lived Gas Species
• Representative Concentration Pathway 8.5 Aerosols
• Representative Concentration Pathway 8.5 Aerosol Precursors
• Representative Concentration Pathway 8.5 Land Use for Shared Socioeconomic Pathway 5

**SingleMember**: One ensemble member

**SSP5-85Initialisation2020**: Initialisation is from the beginning of year 2020 of the SSP5-8.5 experiment.

**AGCM Configuration**: An Atmosphere only general circulation model configuration.