

CO₂ equivalence metrics, including GWP & GTP

Earth System models

Emulators

Concentrations
Greenhouse Gases

Radiative Forcing

Aerosols & Ozone
Atmospheric chemistry

Emissions
Greenhouse Gases

Temperature
Global mean

Emissions
Short-lived climate forcers

Feedbacks

Feedbacks

Regional climate
temperature, precip, etc.
mean, extremes

**Regional
emulators**

Climate impacts
crops, health, fisheries,
biodiversity, etc.

**Impact
models**

Missing
feedbacks?

Socioeconomic
scenarios

Some Earth System
models can model
aerosols and ozone
burden from
emissions

Some Earth System
models can run
with CO₂ and CH₄
emissions

