

Fossil CO₂

Land-use change

Biosphere

Atmospheric CO₂

Ocean



Anthropogenic fluxes
2010-2019 average
GtCO₂ per year



Carbon cycling
GtCO₂ per year



Stocks



34
(33 - 36)



6
(3 - 8)



13
(9 - 16)

+19



9
(7 - 11)

0.5



Gas reserves

Oil reserves

Coal reserves

Permafrost

Soils

Vegetation

Rivers and lakes

Coasts

Surface sediments

Organic carbon

Marine biota

Dissolved inorganic carbon

440
440

330
330

Budget imbalance -0.2