Global Methane Budget 2008–2017

In teragrams of CH₄ per year (Tg CH₄ yr⁻¹) average over 2008–2017

**Emissions and Sinks**

- **Natural fluxes**
  - Inland waters, geological, oceans, termites, wild animals, permafrost, vegetation
  - Sink in soils

- **Anthropogenic fluxes**
  - Fossil fuel production and use
  - Agriculture and waste
  - Biomass and biofuel burning

- **Natural and anthropogenic fluxes**

**Total Emissions**

- **Bottom-up view (BU)**: 128 (113–154) Tg CH₄ yr⁻¹
- **Top-down view (TD)**: 111 (81–131) Tg CH₄ yr⁻¹

**Total Sinks**

- **Change in atmospheric abundance**: > 100 (0–49) Tg CH₄ yr⁻¹

**Growth Rate**

- The observed atmospheric growth rate is 18.2 (17.3–19) Tg CH₄ yr⁻¹. The difference with the TD budget imbalance reflects uncertainties in capturing the observed growth rate.