

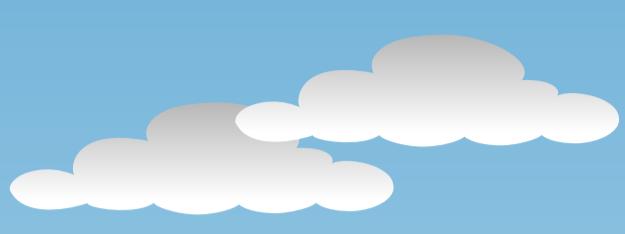
Water vapor

Halocarbons
CFCs



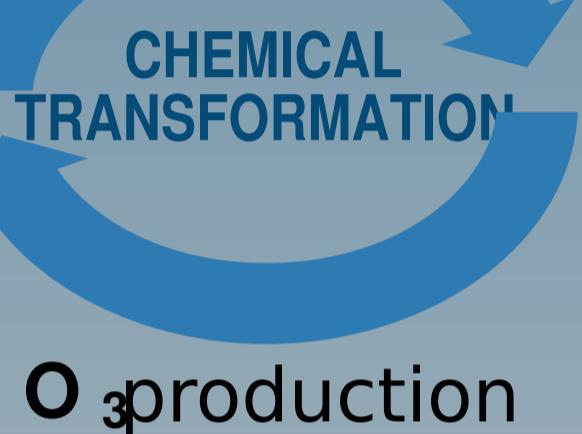
STRATOSPHERE

Aircraft emissions
(NO_x, Black Carbon, Sulfate)



TROPOSPHERE

LONG-RANGE TRANSPORT OF AEROSOLS AND GASES



Cities

Natural and
anthropogenic emissions
from the Earth
(CH₄, CO, CO₂,
VOCs, Sulfate, Black
Carbon, Dust, N₂O,
CFCs, NO_x, O₃)

Industry

Transportation

Agriculture

Desert
dust



Biomass
Burning

CHEMICAL
TRANSFORMATION
AND

DEPOSITION
OF
POLLUTANTS

Sulfur
emissions
from oceans

Forests and other
Ecosystems



Transportation

Oceans

Evaporation
and Convection

FREE
TROPOSPHERE
BOUNDARY
LAYER