

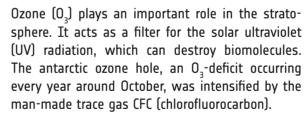
1. Global map of nitrogen dioxide (NO₂). distribution. NO₂ is produced by high-temperature combustion processes in industry and traffic and reflects the industrial activity of a region. Data: Sentinel-5P.

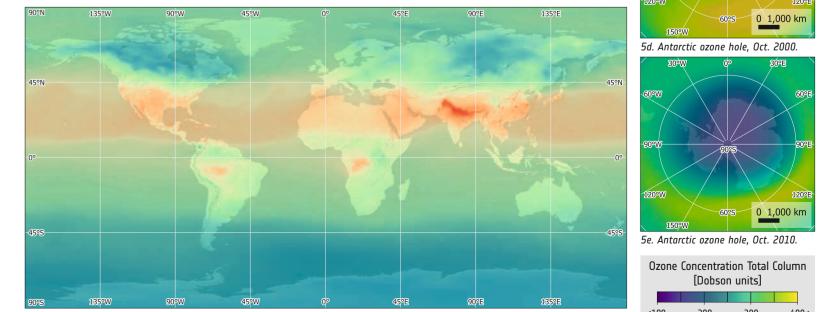
Carbon Dioxide (CO₂) Concentration [ppm] <408 410 412 414 416 418 420<

Components of the Atmosphere

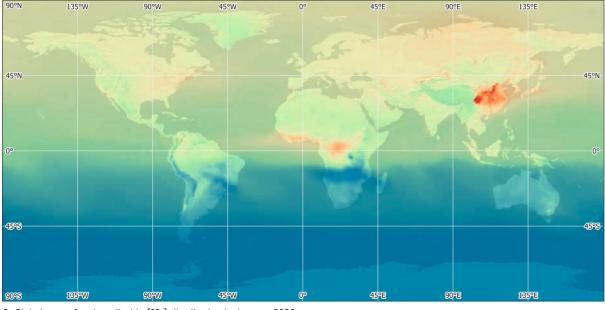
The atmosphere consists mainly of nitrogen (N₂, 78.08%), oxygen (0, 20.95%), and argon (Ar, 0.93%). The remaining 0.04% are made of the socalled trace gases, which despite their small concentrations play important roles in the atmosphere.

Carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) are important greenhouse gases contributing to global warming. During the last decades especially CO, has gained awareness, as its concentration has increased from 320 ppm (parts per million) in the 1960s to 420 ppm in 2023.



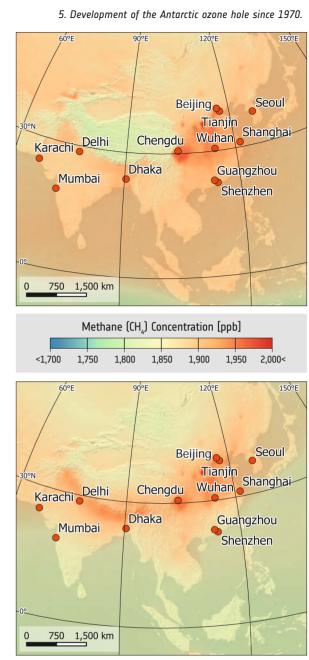


3. Global map of carbon dioxide (CO₂) distribution in July 2020.

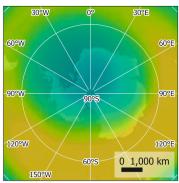


2. Global map of carbon dioxide (CO_2) distribution in January 2020.

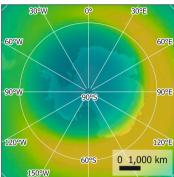
TRACE GASES



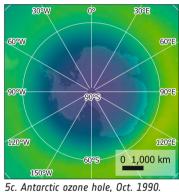
4. Seasonal variation of the methane (CH_{μ}) concentration in south-east Asia, January 2020 (top) and July 2020 (bottom). Rice cultivation is one of the most important sources of CH.

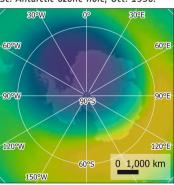


5a. Antarctic ozone hole. Oct. 1970.



5b. Antarctic ozone hole, Oct. 1980.





Ozone Concentration Total Column [Dobson units]						
<100	200		300		400<	

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