

Lecture 22a Solar Wind

Wysocki 2014 Lect 21 April 15 Tuesday

$$1708 = R_{\text{atm}} \cdot 10^8 \text{ for month}$$

Atm
beautiful set of In-situ observations!

Ozone catalytic cycle layer - Temp from Stratosphere



since hot

Solar Wind - generally $O^+ \rightarrow O^0$

N_2O dynamo also

UV driven ozone wind -

Stratospheric vortex - System

Strong wind around antarctica \Rightarrow vortex

strat up to stratosphere

Perth mixing -

Chemical Trop start of winter

Ozone cloud
in troposphere
&
ozone hole

Too much mixing
in the stratosphere to destroy
ozone

Fluoro carbons
eat ozone in
winter because
do not react w/ wind

Incoming Solar Radiation
(.25 μm to 2.5 μm)

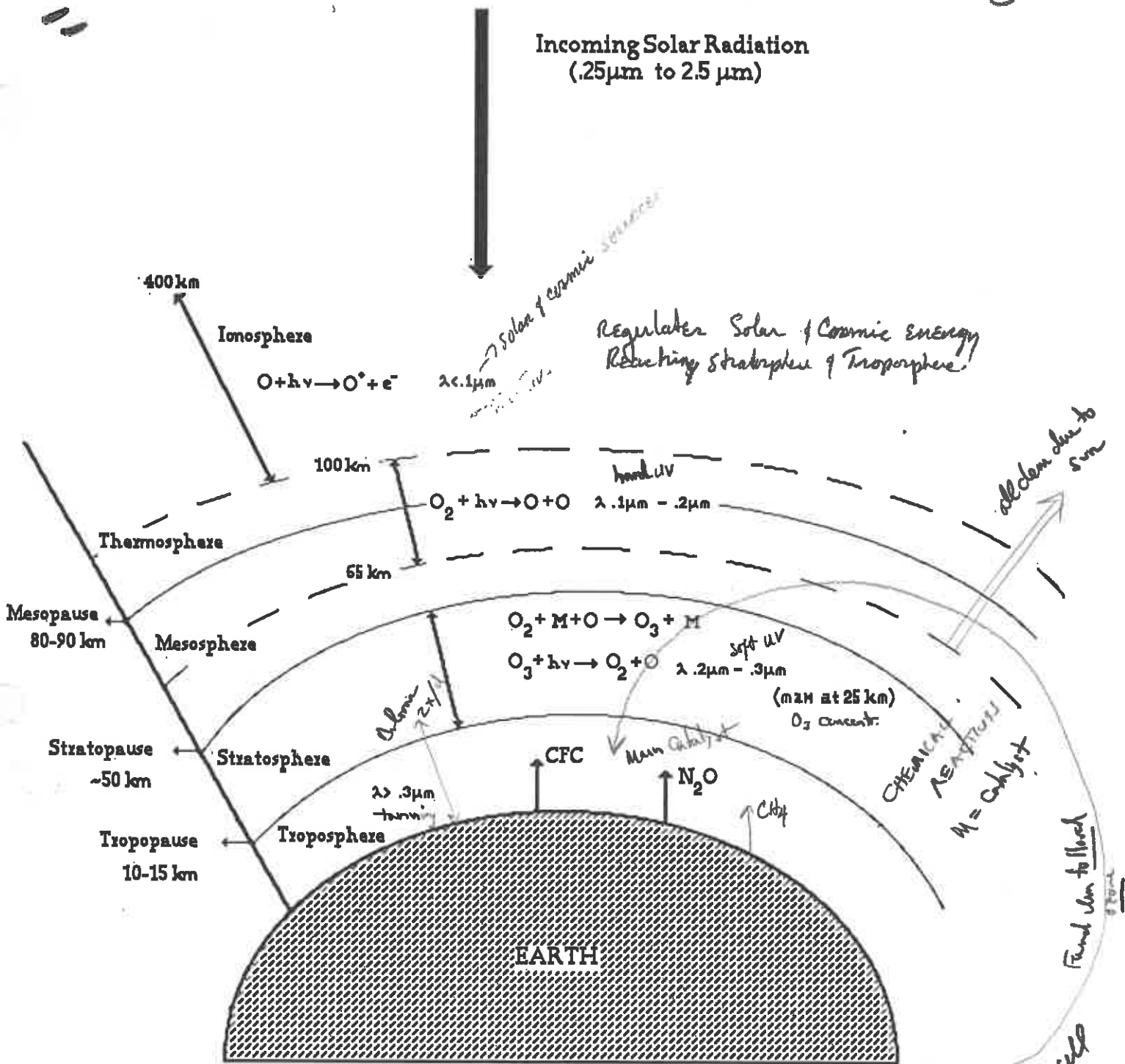
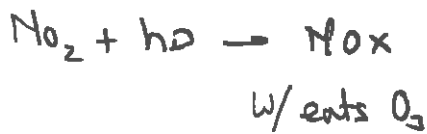


Illustration of the processes that determine the concentration of ozone in the stratosphere.



H_2O is from corn + beans - H_2 from air + emit H_2O

Corrosive fine sand water

Sigle
Dilson circled ~ Holly cell