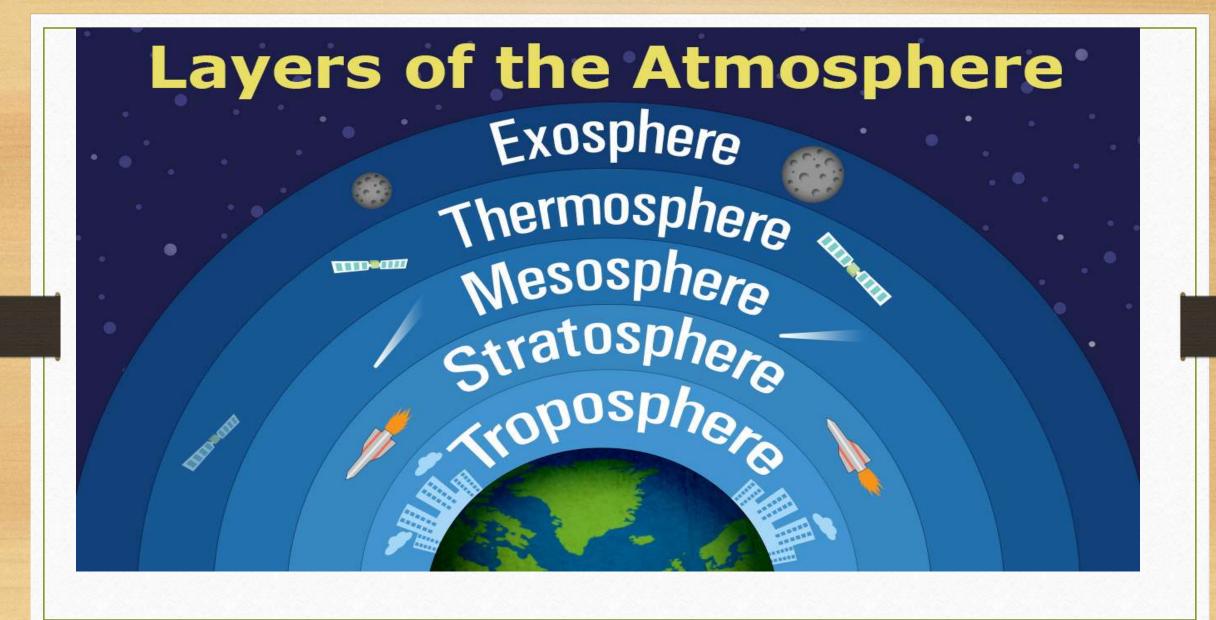


Composition of the atmosphere

- Air- is a mixture of several gases.
- Air surrounding the earth is know as the atmosphere
- The atmosphere help protect us from harmful gases and maintain the suitable temperature necessary for life.



COMPOSITION OF THE ATMOSPHERE

- The atmosphere is made up of different types of gases, water vapour and dust
- particles. The composition of the atmosphere is not static. It changes according to the time and place.
- (A) Gases of the atmosphere:
- The atmosphere is the mixture of different types of gases, including water vapour
- and dust particles. Nitrogen and Oxygen are the two main gases of the atmosphere.

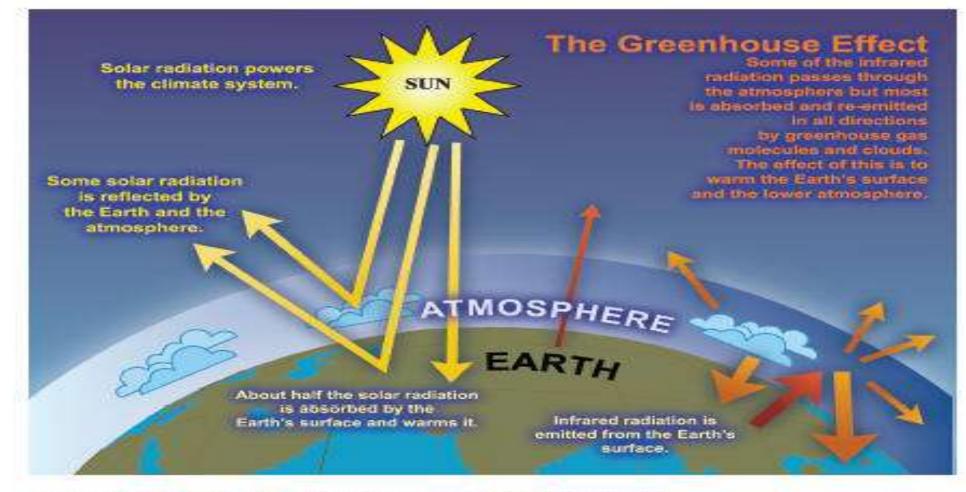
Ozone Gas

- The amount of ozone gas in the atmosphere is very little. It is limited to the ozone
- layer but it is very important. It protects the living beings by absorbing the
- ultraviolet rays of the sun. If there was no ozone gas in the atmosphere, there would not have been existence of living beings and plants on the earth surface

Table :- Amount of gases in the dry and air of the atmosphere

Seria	Gas	Amount (in
1 No.	(11111111)	percentage)
1	Nitrogen	78.1
2	Oxygen	20.9
3	Organ	0.9
4	Carbon	0.03
	Dioxide	1 1 1 1 1 1 1 1
5	Hydrogen	0.01
6	Neon	0.0018
7	Helium	0.0005
8	Ozone	0.00006

Importance of the Atmosphere:

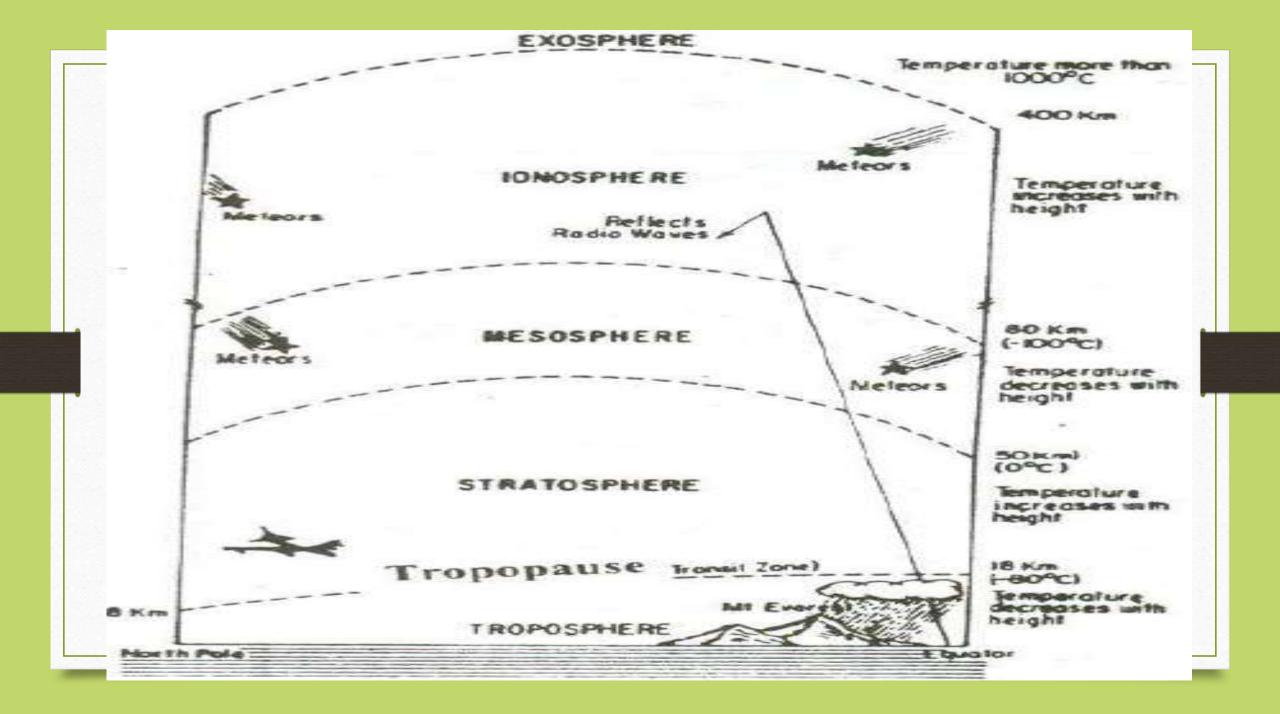


FAQ 1.3, Figure 1. An idealised model of the natural gmenhouse effect. See text for explanation.

Atmosphere

The atmosphere can be divided into four distinct zones:

- 1. Troposphere
- 2. Stratosphere
- 3. Mesosphere
- 4. Thermosphere



Atmospheric Criterion

* <u>Thermosphere</u>

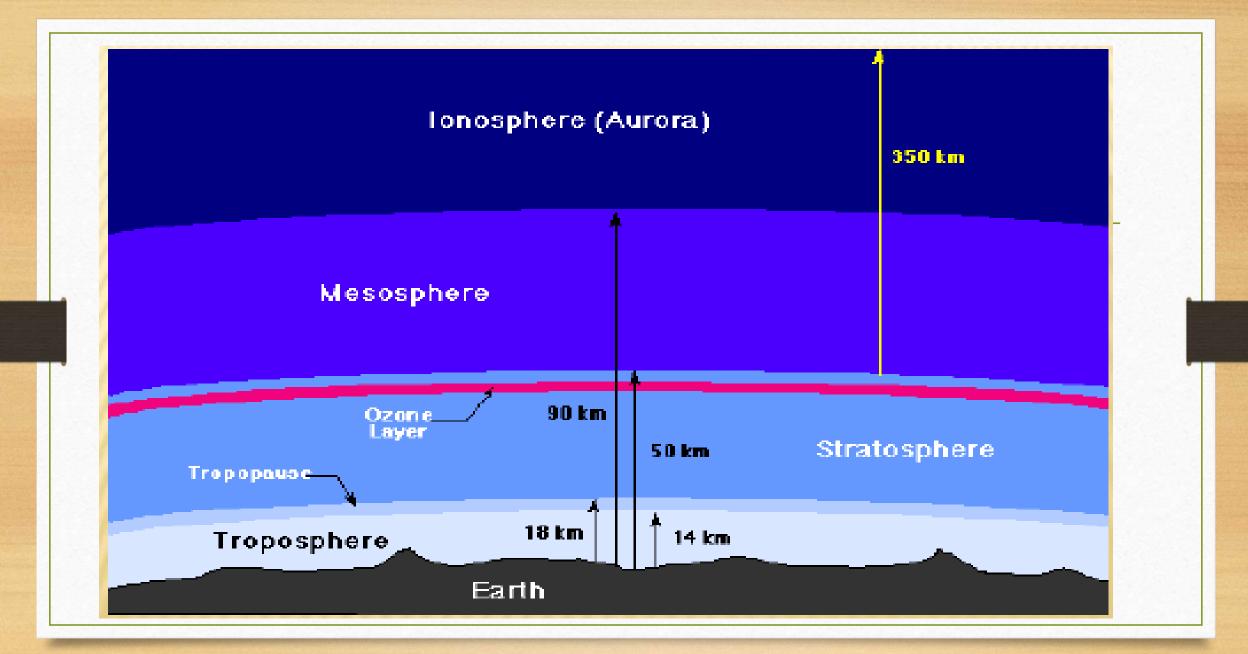
➢ 80km out to 480 km

> Upper limit is the themopause (pause means to change)

Atmospheric Criterion

<u>Mesosphere</u>

- ➢ 50km to 80km
- Mesopause is the coldest portion of atmosphere. There's a low density of molecules



Atmospheric Criterion



•18km to 50 km

• Temperature increase with through out the stratosphere. Stratosphere is the location of the ozone layer

Atmospheric Criterion



Final layer encountered by incoming solar radiation. It surges through the surface. It is the region of principal weather activities

Atmosphere Layers

Occord increditationers THERMOSPHERE LOwner 80 DICESSI 50-MESOSPHERE MARK 30 STRATOSPHERE 7 TROPOSPHERE

References

- Beaudry, R. (2011) introduction to the structure of Earth atmosphere. Available from slideshare at https://www.slideshare.net/beaudry2011/structure-and-composition-of-the-atmosphere?qid=0d3987c2-a92f-4668-a1f4-b1d361997a28&v=&b=&from search=1 (accessed 29 August 2018)
- GeoCoops (2015) structure of the atmosphere. Available from slideshare at <u>https://www.slideshare.net/GeoCoops/structure-of-the-atmosphere-49476702</u> (Accessed 29 August 2018)
- <u>Guest6b681228</u>. (2010) The atmosphere. Available from slideshare at <u>https://www.slideshare.net/guest6b681228/the-atmosphere-3193194</u> (accessed at 29 August 2018)

- Karthikeyan, C. (2017) composition and structure. Available from slideshare at <u>https://www.slideshare.net/KarthikeyanC2/atmosphere-</u> <u>111790704?qid=1cb6ffad-366f-47f5-b284-</u> <u>28a7562cccc9&v=&b=&from search=3 (accessed 29 August 2018).</u>
- Mushtaq, B. (2016) Atmosphere-composition and structure. Available from slideshare at https://www.slideshare.net/Drbasharat/atmosphere-structure-and-composition?qid=bd75fe67-1401-46ef-a919-a53e12ab1f10&v=&b=&from_search=2 (Accessed 29 August 2018)