

The MIMOSA Digital Model for Understanding the Arctic Stratospheric Vortex in Winter

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1- What is the most important atmospheric parameter in the study of the Earth's atmosphere

a) The temperature

b) Ozone

c) Clouds

d) The rain

2- At what altitude is the stratosphere

a) On the ground

b) At 400 km altitude

c) At an altitude of 100 km

d) Between 10 and 60 km

3- In which regions of the world the stratospheric vortices develop

a) At the equator

b) Above the Pacific Ocean

c) Above the Arctic

d) Above Africa

4- In which season does the stratospheric vortex develop

a) Summer

b) Fall

c) Winter

d) Spring

5- What is the average lifetime of the stratospheric vortex

a) 10 years

b) 4 months

c) 2 days

d) 5 hours

6- At what speed around the Earth turns the air in a stratospheric vortex

a) Around the world in 2h

b) Around the world in 24h

c) Around the world in 4 days

d) Around the world in one month

7- What is the reason for calling the atmosphere of the Earth between 10 and 60 km the stratosphere

- a) In honor of the Greek god Stratos
- b) Because in this part of the atmosphere the layers of air do not mix**
- c) In honor of its discovery by Frenchman Philippe Stratot
- d) Because it is at this altitude that the insects the stratéolles can live

8- Which of these temperatures is stratospheric?

- a) -40 ° C**
- b) + 200 ° C
- c) + 2000 ° C
- d) - 200 ° C