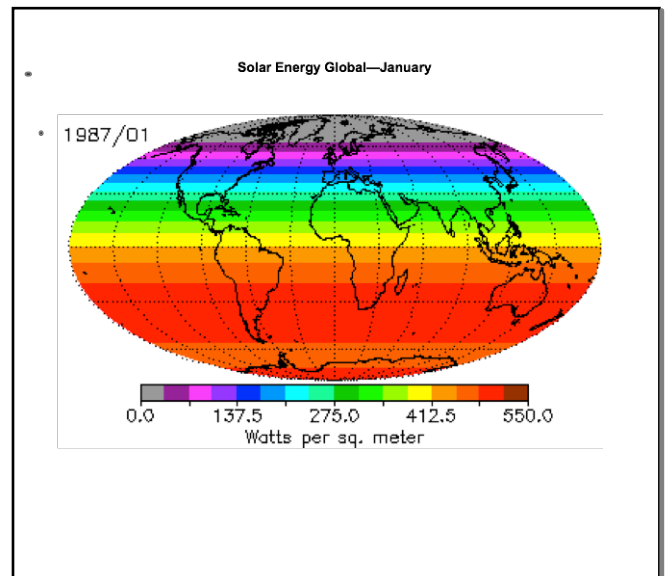


The Sun's Power pt 2

Grade: «grade»
Subject: «subject»
Date: «date»

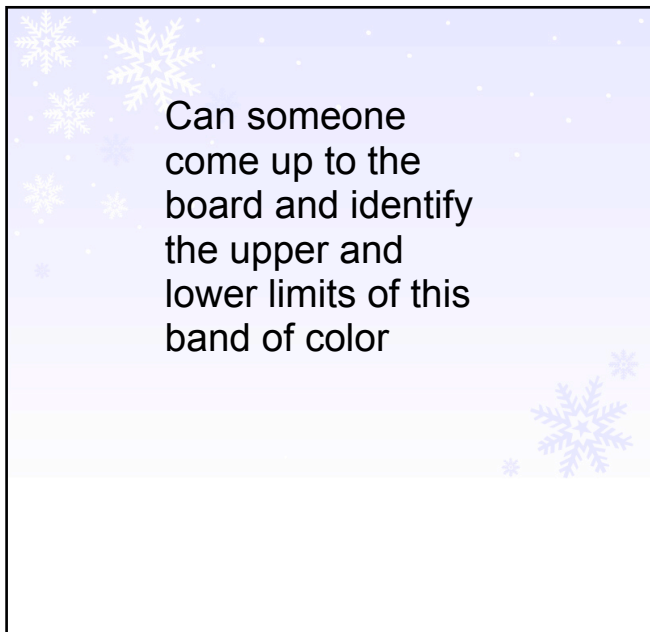


What parts of earth receive the most solar radiation? How would you describe these regions?

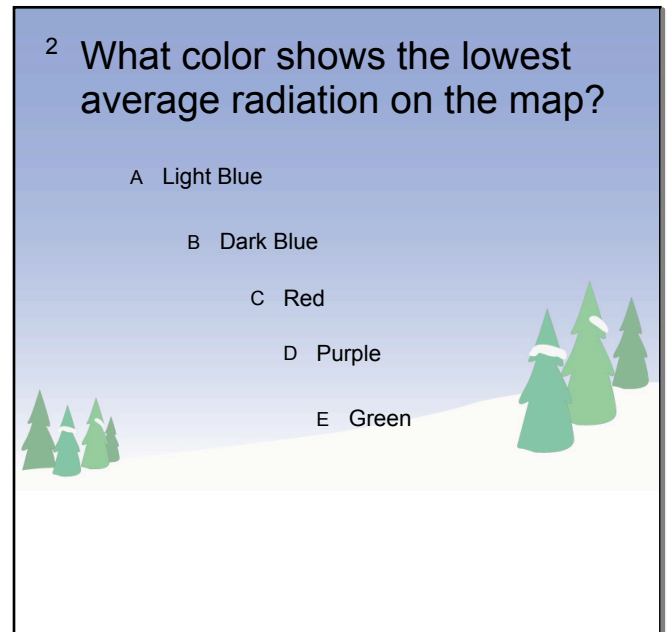


1 Identify colors showing the greatest average **radiation**

- A green
- B yellow
- C orange
- D red
- E purple



Can someone come up to the board and identify the upper and lower limits of this band of color

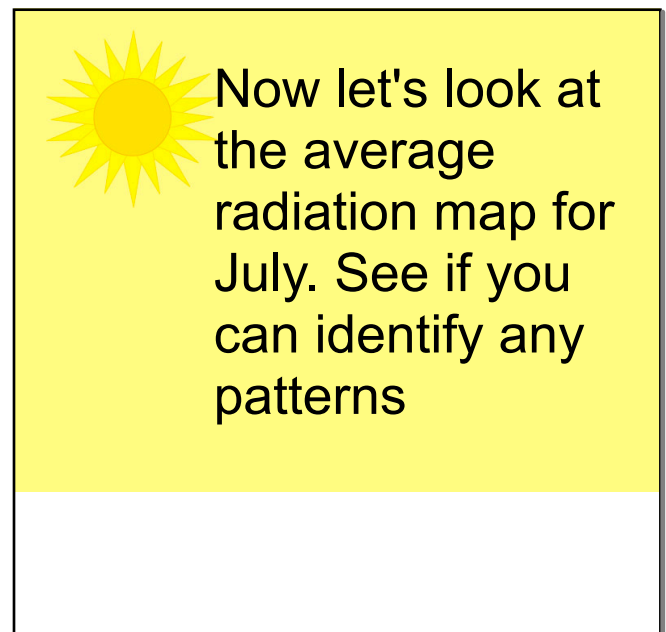


² What color shows the lowest average radiation on the map?


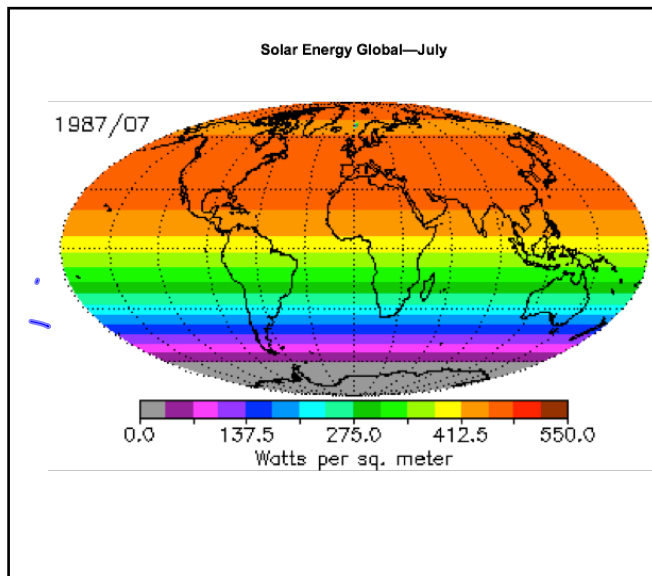
- A Light Blue
- B Dark Blue
- C Red
- D Purple
- E Green



³ What season is January where you live?




Now let's look at the average radiation map for July. See if you can identify any patterns




4 What season is July where you live?

Talk about the pattern of temperature for earth.

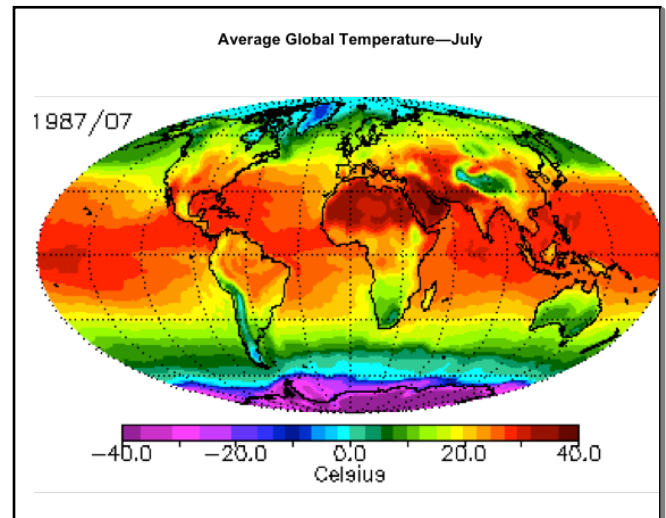


Two more maps- these show average **TEMPERATURE** on earth.... ready?



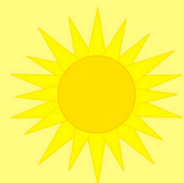
July Temp

Grade: «grade»
Subject: «subject»
Date: «date»



¹ Where are temperatures high?

² Where are temperatures low?



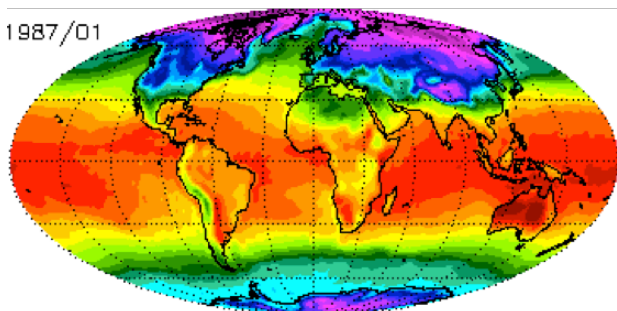
Check out the map
for January

Jan Temp

Grade: «grade»
Subject: «subject»
Date: «date»

Average Global Temperature—January

1987/01



-40.0 -20.0 0.0 20.0 40.0
Celsius

¹ Where are
temperatures high?



² Where are temperatures low?



³ Look at temperatures near the equator. How do **temperatures** at the equator in **January** compare with **July**?

- A January is cooler than July
- B January is always cold
- C January is always warm
- D January and July are both warm



⁴ Do you think there are seasons at the equator?

Yes No

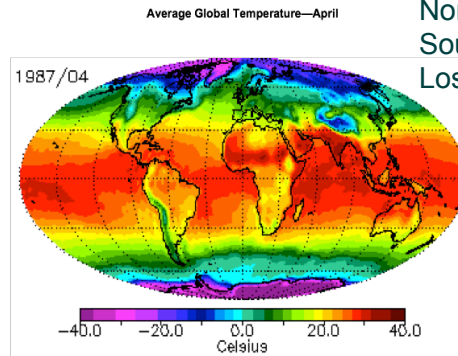


⁵ Complete this sentence: Where the solar radiation is high all year, the temperature tends to be _____ .

6 Complete this sentence: A climate with seasons indicates that solar radiation _____.

You will be given a copy of this April map. Write these phrases directly on the map. Use them more than once if you need.

always hot here
seasons here
equator
North Pole
South Pole
Los Angeles



Homework questions

1. Why do you think that it is hotter at the equator than near the poles (high latitudes)?
2. What happens to heat at the equator? Where do you think it goes?
3. You have felt a heat wave for four days in the summer. Does this mean that solar energy from the Sun is stronger? Explain your reasoning in writing.
4. ***ON WHAT PARTS OF EARTH IS THE SUN'S RADIATION MOST INTENSE?***