



Name: _____

Date: _____

Earth's Energy Budget-Seasonal Cycles

Part 2: Using the additional images provided, compare the monthly changes.

1. What systems are absorbing energy?
2. Where do you think more heat is being given off? What evidence do you have to support this?
3. Where do you think there is more heat absorbed? What evidence do you have to support this claim?
 - a. Review the image from March 2015.
 - b. What do you observe?
 - c. Where is energy being released than absorbed?

Part 4: Using the additional images provided, compare the monthly changes.

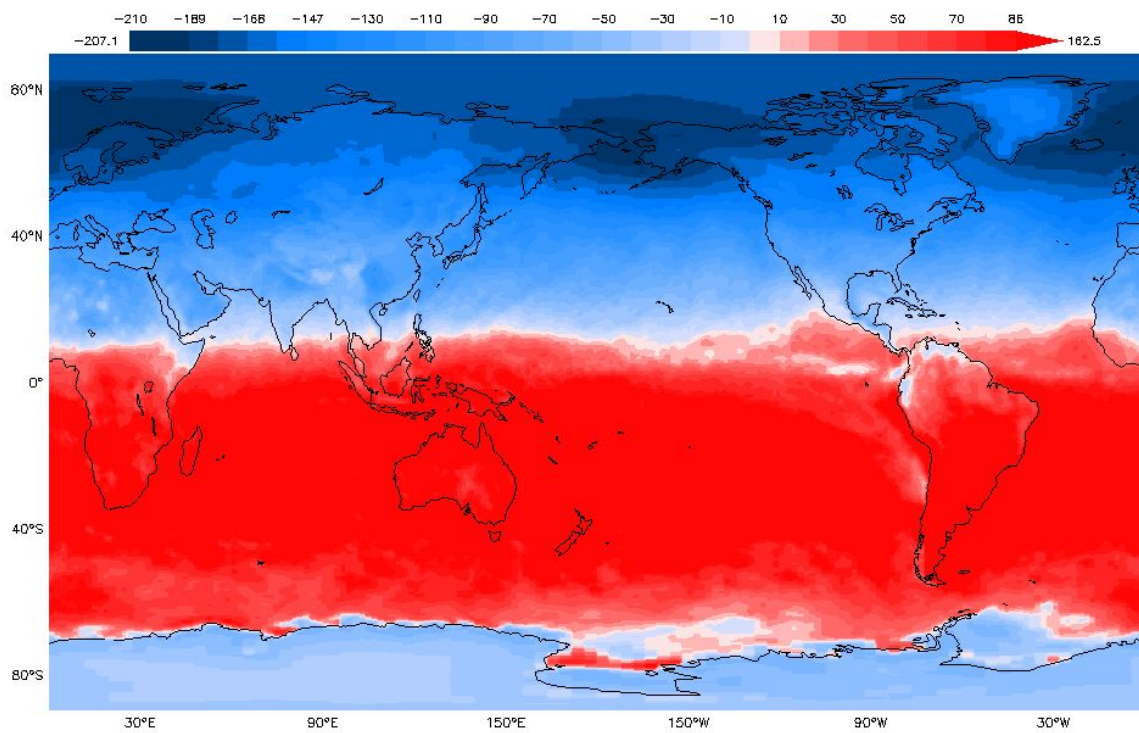
Month	Qualitative	Quantitative
January	<i>e.g., 1) There appears to be a balance of incoming and outgoing radiation at the Equator and at the northern edge of Antarctica. 2) Antarctica is mostly losing radiation. 3) Greenland is losing less radiation than its surrounding environments at its same latitude.</i>	<i>e.g., 1) Around 10°N, there is a balance whereby there is an apparent balance among absorbing and reflecting energy. 2) The Southern Hemisphere falls mostly in the range of $30 - 162.5 \text{ W/m}^2$. 3) The Northern Hemisphere falls mostly in the range of -30 to -207.1 W/m^2.</i>
February		
March		
April		
May		
June		
July		

Discuss whether the patterns students observe are consistent with your earlier observations.

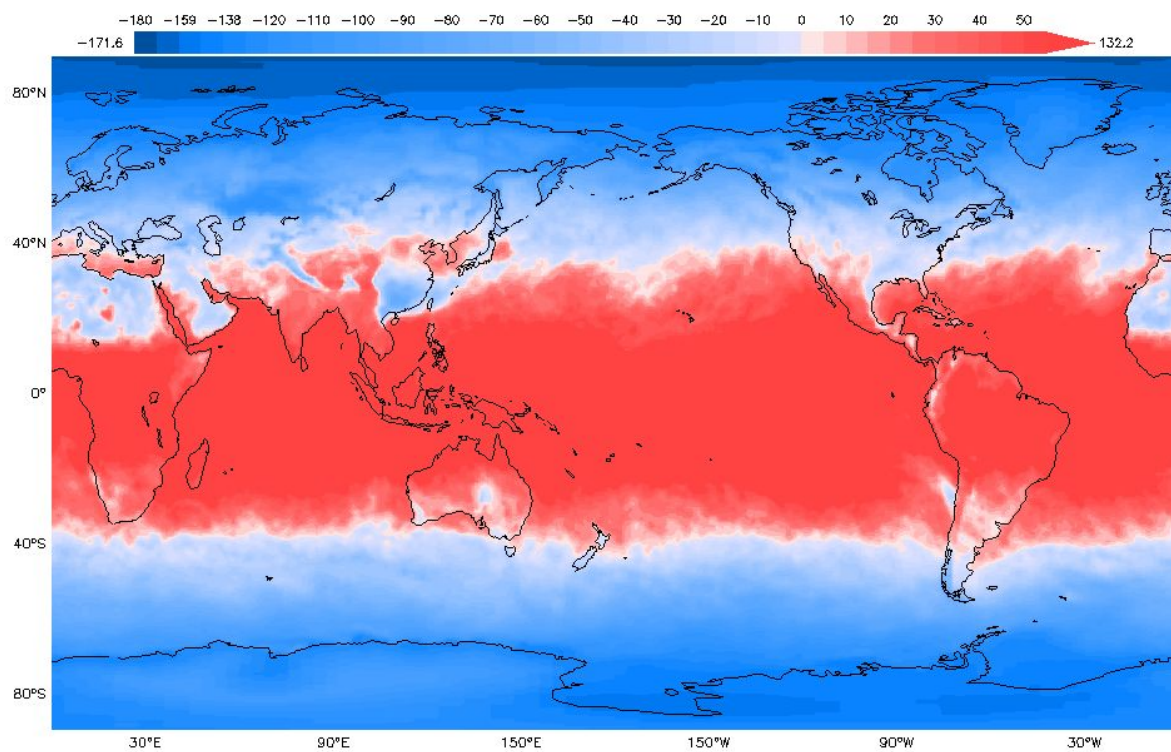


Top of Atmosphere (TOA) All Sky Watts/m²

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Top of Atmosphere (TOA) All Sky, 15-FEB-2015 Watts/m²

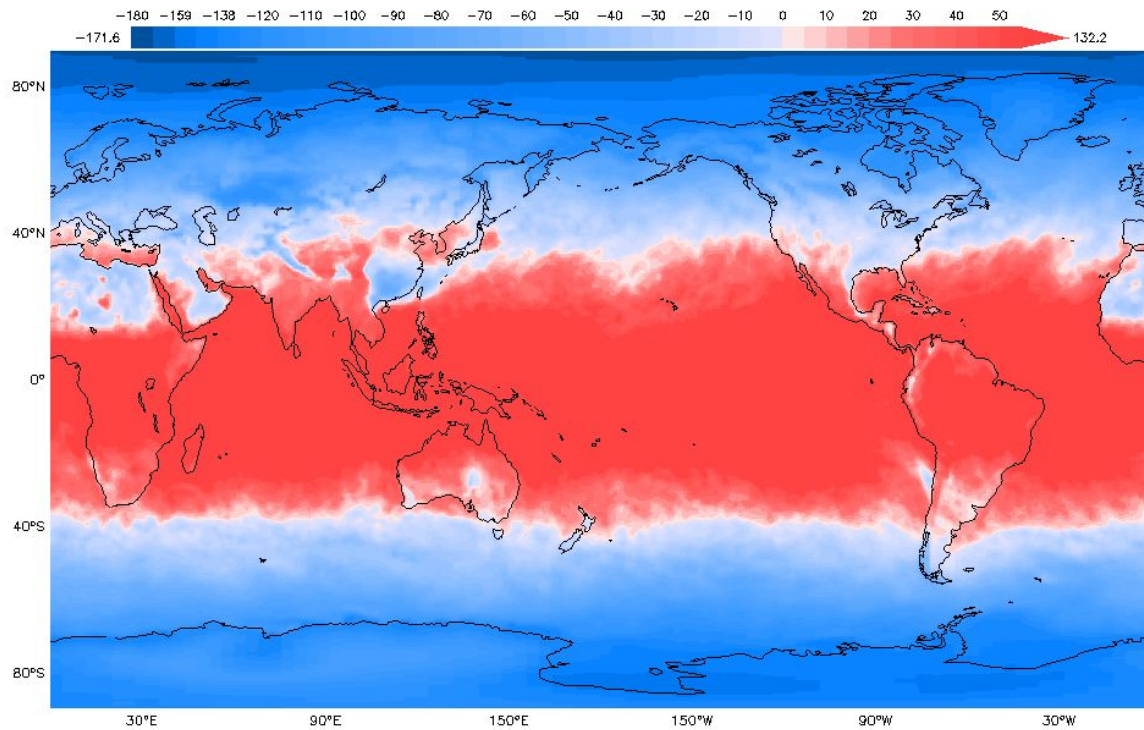




Top of Atmosphere (TOA) All Sky, 15-MAR-2015

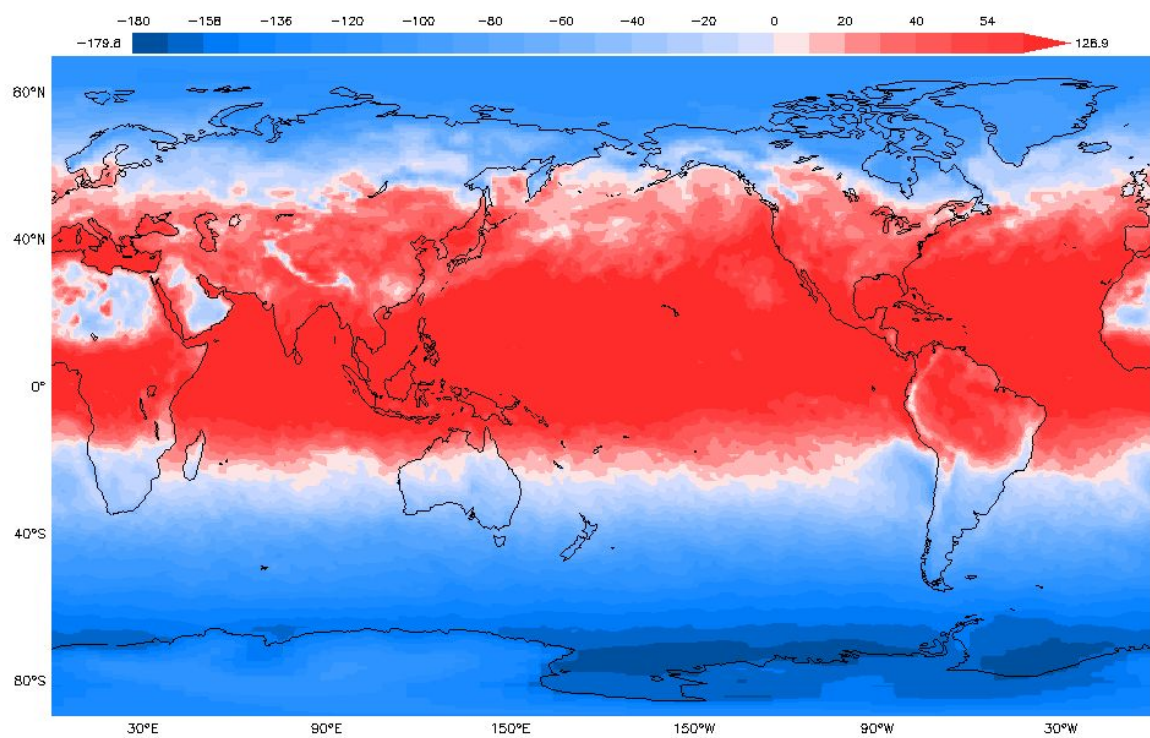
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Watts/m²



Top of Atmosphere (TOA) All Sky, 15-APR-2015

Watts/m²

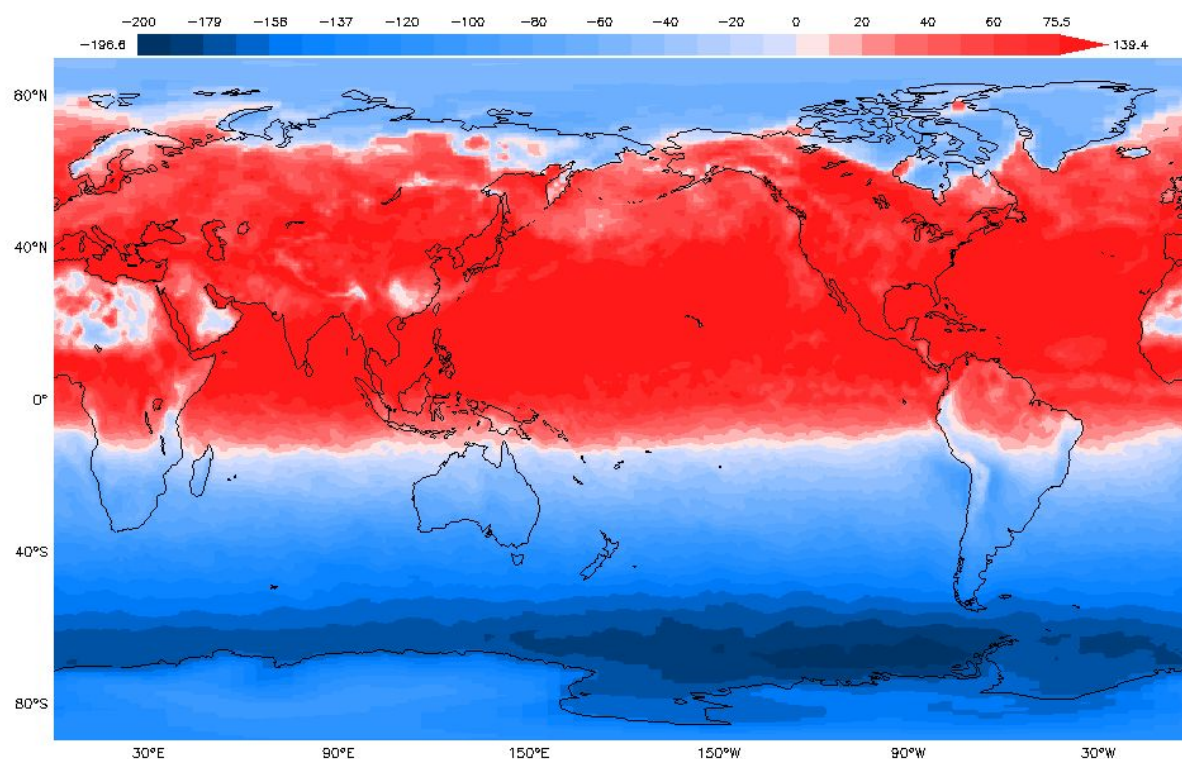




Top of Atmosphere (TOA) All Sky, 15-MAY-2015

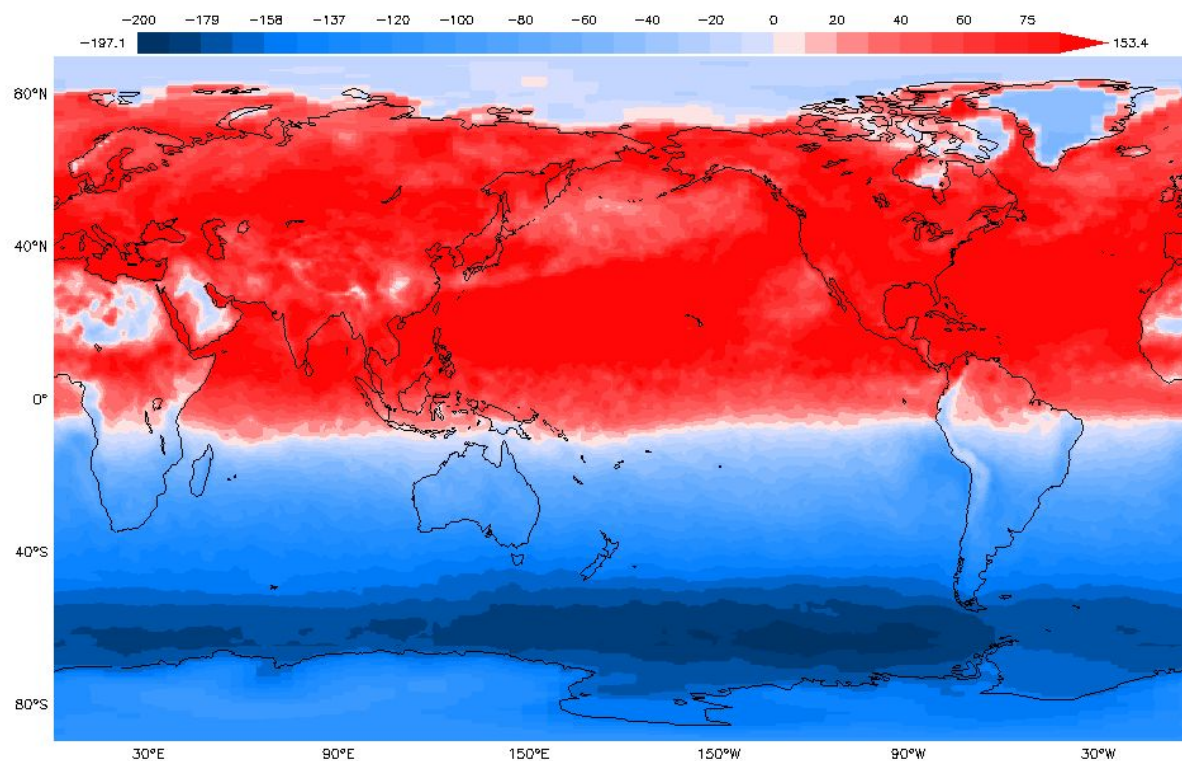
Watts/m²

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Top of Atmosphere (TOA) All Sky, 15-JUN-2015

Watts/m²





Top of Atmosphere (TOA) All Sky, 15-JUL-2015
Watts/m²

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