

Name _____

Sea Surface Temperature Activity

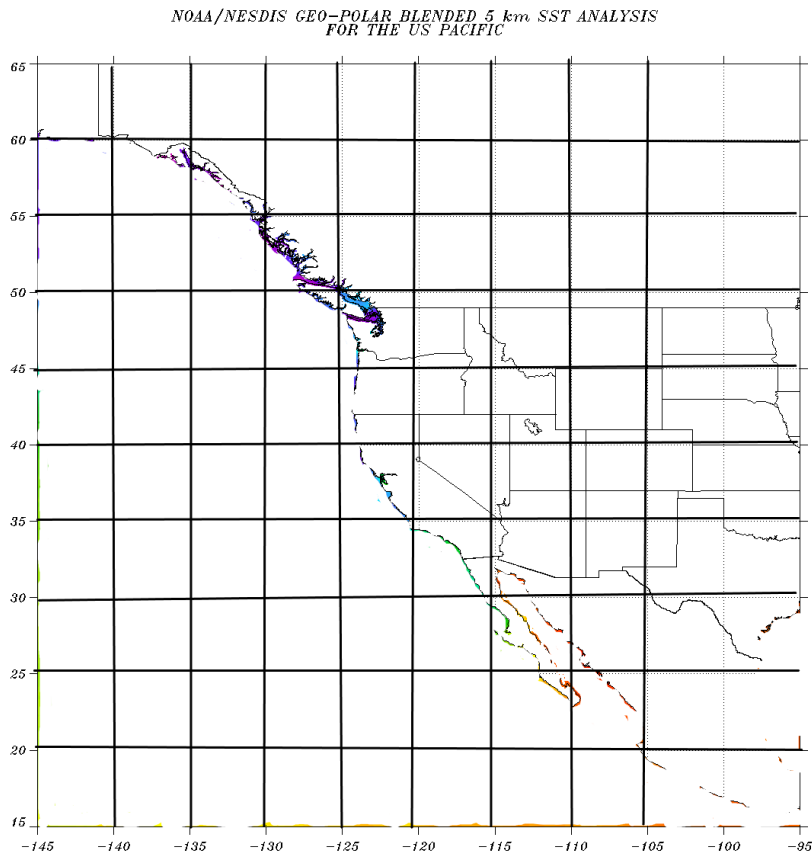
You are responsible for collecting the sea surface temperature at one point in each of the following maps. Once you have collected the temperature you need to convert it from °C to °F. You will continue to collect this data for four weeks. At the end of that time you need to describe how the temperature changed in the trend column.

Region	Latitude and longitude	Today (Week 1)		Week 2		Week 3		Week 4		Trend
		°C	°F	°C	°F	°C	°F	°C	°F	
Gulf of Mexico										
North Atlantic										
South Atlantic										
US Pacific										

Consolidating Data

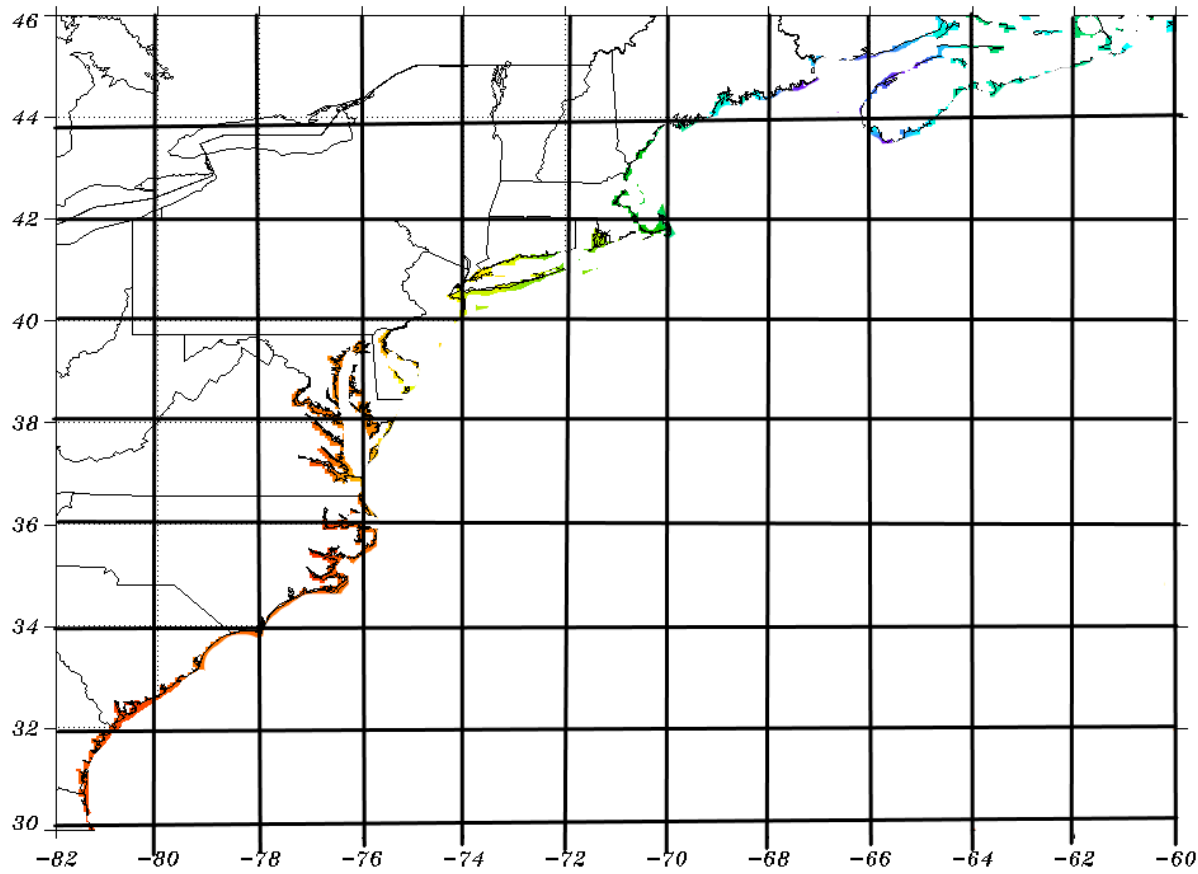
Now that you have collected four weeks of data you are going to add your information to that of your classmates. On the maps below you are going to indicate if the temperature increased, decreased, or stayed the same at each point. If the temperature increased put a red dot, if it decreased a blue dot and if it stayed the same place a brown dot at that point. If the temperature changed multiple times follow your teachers directions. Once the maps are complete answer the questions.

Pacific Coast



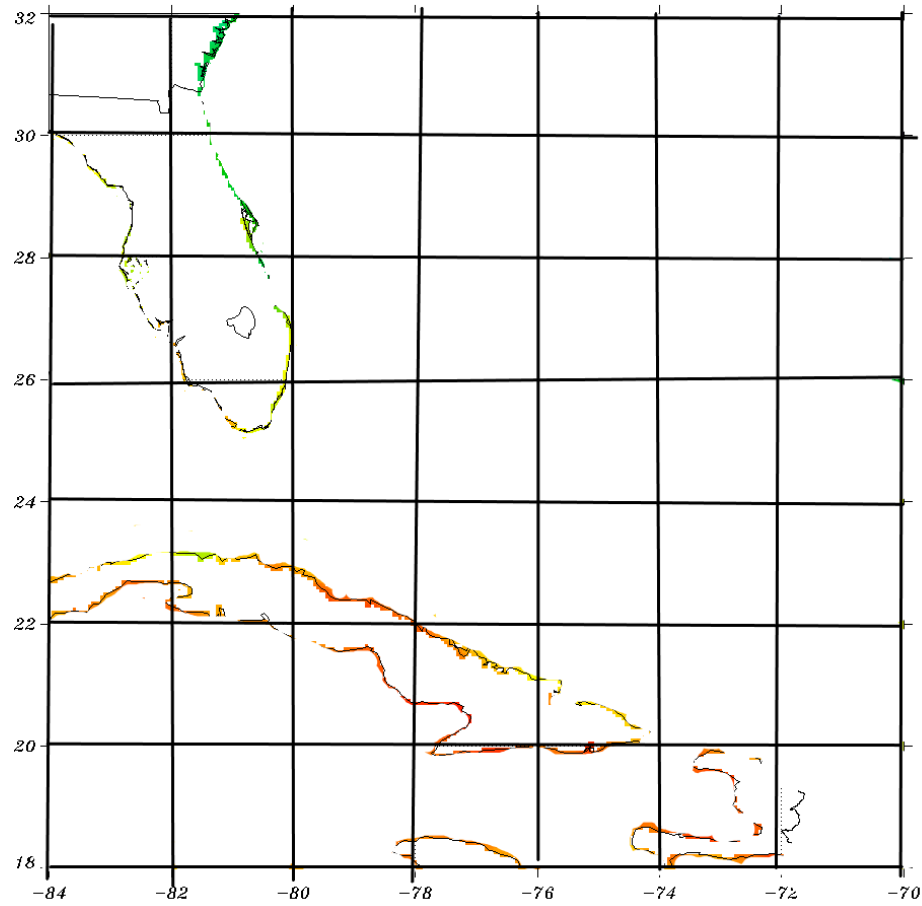
Northern Atlantic Ocean

NOAA/NESDIS GEO-POLAR BLENDED 5 km SST ANALYSIS
FOR THE NORTH ATLANTIC



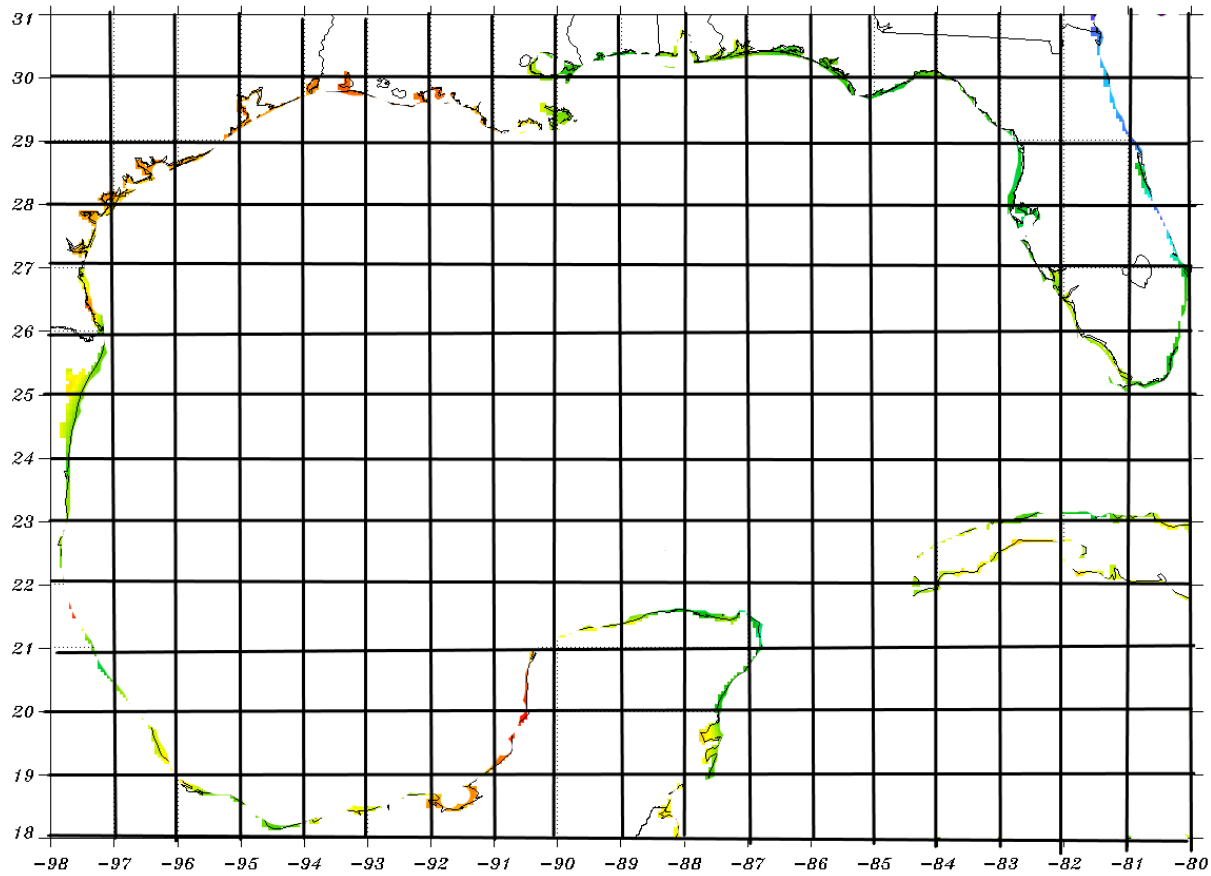
Southern Atlantic Ocean

*NOAA/NESDIS GEO-POLAR BLENDED 5 km SST ANALYSIS
FOR THE SOUTH ATLANTIC*



Gulf of Mexico

NOAA/NESDIS GEO-POLAR BLENDED 5 km SST ANALYSIS
FOR THE GULF OF MEXICO



Conclusions

1. Which areas of the Pacific Ocean got hotter? Which got cooler?
2. Taking into account geology and recent weather trends explain why those changes occurred.
3. Which areas of the Atlantic Ocean (both north and south) got hotter? Which got cooler?
4. Again, taking into account geology and recent weather trends explain why those changes occurred.
5. Which areas of the Gulf of Mexico got hotter? Which got cooler?
6. For the last time, taking into account geology and recent weather trends explain why those changes occurred.
7. How does increasing sea surface temperature affect human and animal populations?

