

Weather Forecasting Project

Objective:

To use the forecasting tools and skills you have learned to research, write and produce a short term forecast.

Notes:

1. You must collect all of your data in one sitting, **September 26**.
2. You are forecasting for **Friday, September 27 and Saturday, September 28**.
3. Make a copy of this file and share it back with me.
4. You are forecasting for your specific city, not New York.

Present Weather Conditions

Go to weather.gov and enter the name of your city in the search box. If a value is missing, write missing.

Temperature	
Dewpoint	
Wind Direction	
Wind Speed	
Cloud Cover	
Precipitation	
Air Pressure	
Time of Data Collection	

What is the National Weather Service forecast for **Friday, September 27 and Saturday, September 28**.

At the bottom of the page, select **Forecast Discussion**. Read the Synopsis at the top and write a one to two sentence summary.

Radar Analysis

Return to weather.gov and click on Radar → National Radar Sites. Find the sector radar loop that covers your forecast city. The animated radar allows you to see in which direction and how fast precipitation is moving.

You are only concerned about precipitation downwind of your city. Is there precipitation moving towards your city (or away from it)? How fast is it moving? Write a one to two sentence summary. Include a screen capture of the radar. Put a dot at the location of your forecast city.

Satellite Analysis

Return to weather.gov and click on Satellites. Select the appropriate radar (GOES East or GOES West) for your forecast city and view the loop.

You are only concerned about clouds downwind or moving toward your city. Are there clouds moving towards your city (or away from it)? How fast are they moving? Write a one to two sentence summary. Include a screen capture of the satellite. Put a dot at the location of your forecast city.

Surface Map Analysis

Return to weather.gov and click on Forecast Maps → Animated Forecast Maps. This will give you an animation of surface features for the next seven days. You only care about tomorrow and the next day.

Are there any areas of high (good weather) or low (inclement weather) pressure moving toward your forecast city? Are there any warm fronts (your city gets warmer) or cold fronts (your city gets colder) passing through your city during the forecast period? Write a one or two sentence summary and include a screen capture of your surface map.

Numerical Model Analysis

Access the models for your city by going to:

<http://www.nws.noaa.gov/mdl/synop/products/bullform.all.php> and selecting your forecast city.

Pick your days carefully!

GFS

Variable	September 27	September 28	
Max Temp			
Min Temp			
Q 12 Average			
P 12 Average			
Cloud Average			

NAM

Variable	September 27	September 28	
Max Temp			
Min Temp			
Q 12 Average			
P 12 Average			
Cloud Average			

Prediction

Day	Max Temperature + Precipitation
September 27	
September 28	

Comment on any discrepancies between your forecast and the National Weather Service forecast.

Writing Your Forecast

- Your written forecast should be conversational in tone as well as informative. In a creative way, you need to communicate your forecast to the public.
- Do not include your last name.
- Do include the forecast city and the dates for your forecast.
- You need to refer to specific maps and data when explaining your forecast.
- You may record directly into iMovie or directly into PhotoBooth (and then import into iMovie).
- Make sure you have an opening and that the forecast also appears as text at the end of your clip.
- You may wish to use Picture-in-Picture to include maps and data (make sure the viewer can see the data).
- You must include the Sr. Kathleen Fagan tribute line, “Here is your detailed forecast for September 27 and 28.”
- Save your video as: **19AtmoLastNameWeatherForecast.mov**

Filming Tips

- No filming in the Teahouse, Pit or your bedroom.
- Make sure you center your shot.
- Watch your background noise and lighting. Your video should be top quality.
- Do not hold up photos or images.
- No copyrighted music.

