

Weather Data for Various Cities II

Earth Science

Data Date/Time: October 24, 2002/2:00 p.m.

Name _____

Date/Hr. _____

City	Temp.	Dewpoint	Clouds	Pressure	Humidity	Wind Sp/Dir	Current Conditions
Detroit	43 F	28 F	clear	30.07 s	56%	7 mph E	
New York	47 F	29 F	cloudy	30.38 s	50%	calm	
Seattle	52 F	46 F	clear	29.96 f	80%	5 mph variable	
Miami	82 F	74 F	pt cloudy	29.95 f	76 %	10 mph SE	
New Orleans	76 F	66 F	cloudy	29.99 s	71%	5 mph E	
Kansas City	45 F	45 F	cloudy	30.34 s	100%	6 mph N	light rain
Las Vegas	80 F	52 F	clear	29.92 s	42 %	variable speed S	
Los Angeles	65 F	52 F	cloudy	29.93 f	63 %	6 mph variable dir	
Hatteras	64 F	61 F	cloudy	30.19 f	90 %	5 mph NE	
Des Moines	39 F	39 F	cloudy	30.22 s	100 %	5 mph NE	light rain
Denver	36 F	34 F	mo cloudy	29.95 f	93 %	6 mph N	
Houston	67 F	66 F	cloudy	29.96 s	97 %	17 mph N	rain
Galveston TX	70 F	70 F	cloudy	29.94 r	100 %	21 mph W	Heavy thunderstorms

Questions:

1. Compare the pressure to cloud coverage, temperatures, and humidity for the two days. Is there a relationship between falling pressure and cloud coverage? Explain. What can you conclude about pressure as weather systems move in and out of a region?
2. What happened to the precipitation in Denver? What would you forecast for cities immediately east of this region? What could happen to change your forecast?
3. Observe weather in Houston. Is the rain beginning or ending? How can you tell? Find Galveston on the map. Compare it's weather to Houston. Where might the center of the low pressure be located? Explain.
4. How would collecting data over a longer period of time help forecast the weather more accurately.