

EXERCISE 19

Weather Maps

Lab Exercise 19



<https://open.ghx52706a>

Objective:	To study weather patterns shown on standard weather maps produced by the National Weather Service.
Resources:	Internet access or mobile device QR (Quick Response) code reader app (optional).
References:	Hess, Darrel. <i>McKnight's Physical Geography</i> , 12th ed., pp. A13–A18.

THE STATION MODEL

In Exercises 13, 14, and 18 we used a simplified version of the weather map station model. We will now introduce the complete station model used on standard National Weather Service maps. Figure 19-1 is a sample station model, with labeled information. A complete description of all standard U.S. Weather Service station model codes is found in Appendix III in the back of the Lab Manual.

In earlier exercises, we introduced the format and position of data to indicate current temperature (upper left of station circle), dew point (lower left of station circle), wind direction, wind speed, and atmospheric pressure.

Wind direction is indicated with a shaft that points into the wind, and wind speed is determined by adding up the “feathers” on the wind shaft: $\frac{1}{2}$ feather = 5 knots; full feather = 10 knots; triangular flag = 50 knots (1 knot equals 1 nautical mile per hour, 1.15 statute mph, and 1.85 km/hr). For example, the station model in Figure 19-1 shows a 15-knot wind from the north-northeast.

Barometric pressure is shown in an abbreviated form on the station model. The first 9 or 10 is left off, and the decimal point removed, so a pressure of 1021.3 is written simply as “213”; and so “147” indicates a pressure of 1014.7 mb. Immediately below the pressure, the change in pressure in tenths of a millibar (+ or -) over the last 3 hours is given, and immediately to the right of this is a simple line graph showing the pressure tendency over the last 3 hours.

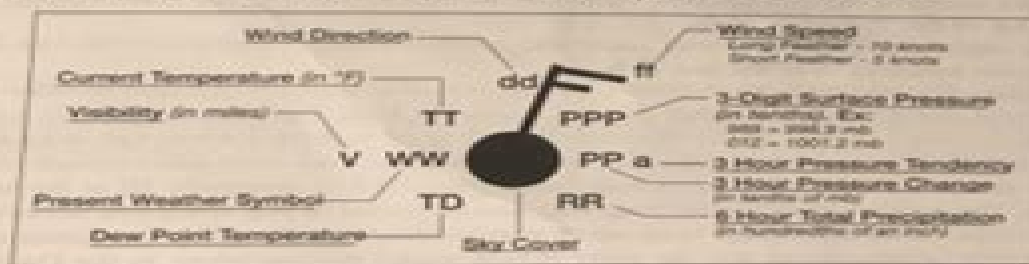


Figure 19-1: Sample weather station model. (Adapted from National Weather Service)

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Jianjun Gao



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