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United States METAR Decoding: Obscure & Numeric Codes

Pressures	
A2995	Altimeter setting = 29.95 inches of mercury
SLP108	Sea level pressure = 1010.8 mb (see note below)
SLP992	Sea level pressure = 999.2 mb (add a 9 or 10 & decimal point—bring it as close to 1013.2 mb as possible)
51005	5-prefix group shows pressure tendencies and how much pressure changed over the past 3 hours (see code table below) = pressure increased and was then steady, with total increase of 0.5 mb the past 3 hours
Trend	Code
Increasing then decreasing	0
Increasing, then steady, or increasing then increasing more slowly	1
Increasing steadily or unsteadily	2
Decreasing or steady, then increasing, or increasing then faster rise	3
Steady	4
Decreasing then increasing	5
Decreasing, then steady, or decreasing then decreasing more slowly	6
Decreasing steadily or unsteadily	7
Steady or increasing, then decreasing; or decreasing more slowly	8

Temperatures	
03/M01	Temperature 3 degrees C, Dewpoint -1 degrees C (note M prefix)
T00281011	Temperature 2.8 degrees C, Dewpoint -1.1 degrees C (note 1 prefix) Shown hourly after RMK—just add a decimal between the last two digits of each 4 digit group. If it is negative, the first number in the 4 digit group will be 1.

Other Remarks (After RMK)	
P0015	Hourly liquid precipitation (in hundredths of an inch) = 0.15 inches of rain fell that hour
4/004	Four inches of snow on the ground (4/nnn where nnn = inches)
30020	3-hour liquid precipitation (hundredths of an inch) = 0.20 inches of rain fell in the previous 3-hour period (shown at 03, 09, 15, and 21 UTC)
60046	6-hour liquid precipitation (hundredths of an inch) = 0.46 inches of rain fell in the previous 6-hour period (shown at 00, 06, 12, and 18 UTC)
60000	6-hour liquid precipitation (hundredths of an inch) = trace of rain fell in the previous 6-hour period (shown as 0000 & can also be shown as 30000 for 3-hour period, both if less rain fell than could be measured)
SNINCR 2/9	“snow increasing rapidly” then snow that fell that hour (inches)/snow on the ground (inches) = 2 inches fell that hour and 9 inches on ground (shown if snow increases by 1 inch or more in the past hour)
70081	24-hour liquid precipitation (hundredths of an inch) = 0.81 inches of rain fell in the previous 24-hour period (shown at 12 UTC observation)
10128	Highest temperature (in tenths of degrees C) in the previous 6 hour period = 12.8 degrees C (shown at 00, 06, 12, and 18 UTC)
11046	Highest temperature (in tenths of degrees C) in the previous 6 hour period = -4.6 degrees C (shown at 00, 06, 12, and 18 UTC) - note the 1 just after the first 1 means it is negative
20100	Lowest temperature (in tenths of degrees C) in the previous 6 hour period = 10.0 degrees C (shown at 00, 06, 12, and 18 UTC)
21112	Lowest temperature (in tenths of degrees C) in the previous 6 hour period = -11.2 degrees C (shown at 00, 06, 12, and 18 UTC) - note the 1 just after the first 1 means it is negative
402560122	Recorded high & low temperature in past 24 hours = max temp 25.6 degrees C, min temp 12.2 degrees C (shown @ midnight local time)

Important: This study & decoding sheet is intended for educational purposes only. This information is not meant to explain all situations or all circumstances or all weather products and may go out of date, so always consult official FAA guidance applicable to your specific operation.

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