Explanation of Radiosonde Code. (Ft McKinley).

cf. Run of July 1.

1) 33333 - Simply indicates radiosonde data follow.

2) 21104.
211 is station number (i.e. of Ft. McKinley)
04 is ~~first~~ Time G.C.T. (noon in P.I.)

3) 00430.
004. Add 1000 to get surface pressure in mb. if ~~not~~ 1000. or over.
otherwise these 3 figures give hundreds, tens & digits of mb. pressure
30 Temperature in °C.

4) 59040.
59 is relative humidity in tens & digits.
040 Is simply a code statement of units used. $X_1 X_2 X_3$.
0 says unit of height is feet & of temp. degrees Cent.
4 " wind unit is knots.
0 " mixing ratio in gr./kg.

5) 03009
0 signifies this is a wind group.
300 is direction in degrees, tens of N to E to S +c.
09 is velocity in knots.

6) 00023.
This starts the ~~compulsory~~ mandatory levels data.
00 is 1000 mb. level.
023 is height in thousands, hundreds, tens. Hence
230 ft. (i.e. 1000 mb. level is at ht of 230 ft).

7) 30659
30. Temp. in degr. C.
6 Humidity in tens, i.e. 60 to 69%. cf. (10), at this low pres
569 Mixing ratio in digits & tenths, Add 10. 15.9 gr/kg.

8) 02514
0 denotes wind group. cf (5)
25. is direction in tens of degrees, i. 250°
14 is wind velocity i. e. 14 knots,

9) 85492
85 is for 850 mb. ~~compuls.~~ mandatory level of pressure. cf 6).
492 is ht in thousands, hundr. tens of ft i. e. 4920 ft.

10) 27794
(cf.7). 27 Temp. in degr C.
7 Humidity 70-79, N.B.
94 is mixing ratio. 9.4 gr/kg.
1 = 0-19° rel. hum.
9 = 90-94 " "
0 = 95-100 " "

11) 02608. cf 8). wind group.

12) 70033. as cf 9. NB 033 must be 10,330 ft.

13) 12680 cf .10)

14) 03607 cf 11)

15) 50929 Starts the 500 mb. level group. 929 = 19,290 ft. 16)-17) as 7)-8)

18) 30200 Starts the 300 mb. level " 19)-20) " 7)-8)

20) 20116 " 200 " 22) as 7) wind group missing.

23) 11199 End of mandatory, beginning of significant levels.

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