

All WAVES Väisälä Radiosonde Packages Must Use the Following New Standards

1. Synchronize the computer time to NIST (use hanging internet cable)

- a. To connect to internet, switch TCP/IP to DHCP
- b. When finished synchronizing, switch TCP/IP back to
IP: 192.168.0.1
SubnetMask: 255.255.255.0

2. Station Location (Antenna)

Latitude: 39.0541
Longitude: -76.8775
Altitude: 52.3
Alt. Confidence: 3

3. Must Recondition the Radiosonde

4. Must Record PTU Chamber Values Prior to Ground Check

- a. If Humidity is above **0.5% threshold**, replace desiccant. Wait 10 minutes for new desiccant to equilibrate the chamber. If humidity values persist above the threshold level, replace sonde. Make sure replacement desiccant is good, not used!

5. Must Do a Ground Check

- a. Values to Enter:
Pressure: **Top value** of the Precision Digital Barometer (PDB)
Temperature: Whatever temperature is in the buffer
Humidity: 0%

- b. Please record the correction values in the next screen!

6. Values for Surface Observations

Pressure: **Add +0.2** to the **top value** of the PDB
Temperature: Use the "AT" value from the Base Station
Humidity: Use the "RH" value from the Base Station
WindDirection: Use the average "WD" value from the Base Station
WindSpeed: Convert the "SP" Base Station value to meters per second

** Please check to make sure **both sides** of the data sheet are filled out!

Wind Speed Conversion
Base Station "SP" uses "Knots" units

<u>Knots</u>	<u>Meters/Sec</u>	<u>Miles/Hour</u>
0	0.0	0.0
1	0.5	1.2
2	1.0	2.3
3	1.5	3.5
4	2.1	4.6
5	2.6	5.8
6	3.1	6.9
7	3.6	8.1
8	4.1	9.2
9	4.6	10.4
10	5.1	11.5
11	5.7	12.7
12	6.2	13.8
13	6.7	15.0
14	7.2	16.1
15	7.7	17.3
16	8.2	18.4
17	8.7	19.6
18	9.3	20.7
19	9.8	21.9
20	10.3	23.0
21	10.8	24.2
22	11.3	25.3
23	11.8	26.5
24	12.3	27.6
25	12.9	28.8
26	13.4	29.9
27	13.9	31.1
28	14.4	32.2
29	14.9	33.4
30	15.4	34.5
31	15.9	35.7
32	16.5	36.8
33	17.0	38.0
34	17.5	39.1
35	18.0	40.3
36	18.5	41.4
37	19.0	42.6
38	19.5	43.7
39	20.1	44.9
40	20.6	46.0