

# Tower Sensor Serial Numbers

Some distance measurements at bottom of this page.

## tnw01

- 20m: RMY(ARL) #1359
- 10m: RMY(ARL) #645
- 2m: PTB220 #U4110003 (B8)
- 2m: RMY(ARL) #712
- Mote #55

## tnw02

- 20m: CSAT3A#2044 ; EC150#1233; EC100 #1313
- 20m: NR01 #1980
- 10m: CSAT3A#2036; EC100 #1817
- 10m: TRH #43
- 2m: RMY #004590
- 2m: TRH #117, #31
- mote #20
- soils: Tsoil#012; Qsoil#012; Gsoil#H023010(06); TP01#200592(06)

## tnw03

- 10m: METEK (DTU): 2007 08017/01
  - 10m: TRH #124
  - 2m: METEK (DTU): 2007 09007/01
  - 2m: TRH #1
  - mote #5
- Teardown: 10m METEK USA-14 # 200708017/01
- 2m Metek USA-14 #200709007/01
- Mote #5, DSM # 208

## tnw04

- 20m: RMY(ARL) #4132
- 12m: RMY(ND) #2552
- 10m: RMY(ND) #4593
- 8m: RMY(ND) #4552
- 6m: RMY(ND) #4592
- 4m: RMY(ARL) #923
- 2m: RMY(ARL) #1256
- mote #NONE (not enough left!)

## tnw05

- 20m: CSAT3A #2049
- 20m: EC150 #1384
- 20m: EC100 #1696
- 20m: NR01 #2540
- 12m: RMY #650
- 10m: CSAT3A #2047
- 10m: EC100 # 1798
- 10m: Mote ID37
- 8m: RMY #1377
- 6m: RMY #1360
- 4m: RMY #498
- 2m: RMY #495
- Soil Mote ID07
- TSoil #009
- ECHO EC5 #001
- TP01 #200669
- Heat Flux #H023009

## tnw06

- 20m: RMY #633
- 12m: RMY #1369
- 10m: RMY #1376
- 8m: RMY #1372
- 6m: RMY #635
- 4m: RMY #1338
- 2m: RMY #639
- Mote #28

tnw07

- 60m: TRH#125/#58
- 60m: Gill #164808
- 40m: TRH#129
- 40m: Gill #164807
- 30m: DSM
- 30m: Gill #164805
- tnw07t; mote #32
- 20m: TRH#102
- 20m: Gill #164804
- 10m: TRH#42/#64
- 10m: Gill #164803
- 2m: TRH#123
- tnw07b; mote #31

tnw08

- 20m: RMY(ND) #1294
- 10m: RMY(ND) #3984
- 2m: RMY(ND) #3410
- mote #27

tnw09

- 10m: CSAT3A #2035; EC150 #1392; EC100 #1693
- 10m: NR01 #2536
- 2m: RMY (ARL) #1374
- Soils: mote #15, TP #200675, HF #H943149, TS #001, QS#E10

tnw10

- 60m: TRH#128
- 40m: TRH#23/#53
- 30m: DSM tnw10; mote#
- 20m: TRH#118
- 10m: TRH#105
- 2m: TRH#124/#119

tnw11

- 20m: RMY (ARL) 4131 > 638
- 10m: RMY (ARL) 4133 > 932
- 2m: RMY (ARL) 4135
- mote #12

tse01

- 20m: CSAT3A# , EC150#, EC100#
- 20m: NR01
- 2m: CSAT3A#, EC100#
- mote#
- PIC TP09

Teardown: 20m CSAT3A # 2032, EC150 # 1385, EC100 # 1690  
NR01-T2 # 2539 LW #009  
10m CSAT3A #2045, EC100 # 1796  
Soil mote #30, ECHO #003, PIC QS03, TSoil # 008 PIC TS08, HFT #H103642

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tse02

- 30m: CSAT3A#2037, EC150#1383, EC100 #1687  
LW # 001
- 20m: NR01 #2533
- 10m: CSAT3A # 2050, EC100 #1813
- Mote Soil #25, TP #15, QS #08, HF#13, TS #17  
H103634 PIC HF13, TSoil # 017 PIC TS17

Teardown: 30m CSAT3A #2037, EC150#1383 EC100 # 1687 NR01 -T2 #2533,

10m CSAT3A # 2050, EC100 # 1813

Soil Mote # 25, TP01 # 200668 PIC TP07, ECHO # 027 PIC QS08, HFT 3.1 #

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~~tse03~~ (skipped in numbering, doesn't exist)

tse04

- 100m: TRH#24, #111
- 80m: TRH#31, #116
- 70m: tse04t; Mote #17
- 60m: TRH#108, #125
- 40m: TRH#47, #24, #110
- 20m: TRH#60, #104

- 10m: TRH#68
- 2m: TRH#104, #60
- 2m tse04b; Mote #57

tse05

- 2m: CSAT3A#1006 ; EC150 #1386 ; EC100 #1706
- 2m: NR01#1424
- 2m: nanobarometer #123998
- mote #24
- soils: Tsoil #TS09; Qsoil #QS13; Gsoil #HF08; TP01 #TP04

tse06

- 60m: TRH#8/#29
- 40m: TRH#100
- 30m: DSM tse06; mote #60
- 20m: TRH#1, #32
- 10m: TRH#43, #115
- 2m: TRH#67, #23; nano #123996

tse07

- 20m: CSAT3A #P1004/EC100 ~~#1700~~ #1702/EC150 ~~#1387~~ #1389
- 20?m: nr01 #1980; wetness
- 10m: CSAT3 #1550 (OU), since none of 3x NCAR CSAT3's worked!
- 2m: nano #123997
- Soil: mote#51, TP02, HF16, TS11, QS17, since TS12 was bad

tse08 (USB2 didn't work in 422 mode)

- 20m: METEK #0102122234
- 10m: METEK #2007 19011/01
- 2m: nano #122850
- mote #48

tse09

- 100m: TRH#112
- 80m: TRH#117/#126
- 70m: DSM tse09t; mote#
- 60m: TRH#41
- 40m: TRH#63
- 20m: TRH#21
- 10m: TRH#122
- 2m: TRH#103
- DSM tse09b; mote#

tse10

- 30m: METEK #0102 12 2235
- 10m: METEK #2007 09006/01
- 2m: PTB220 #NCAR0003 (B3)
- mote #53

tse11

- 60m: TRH#121
- 40m: TRH#110/#25
- 30m: DSM tse11; mote#
- 20m: TRH#116/#42
- 10m: TRH#113
- 2m: TRH#120/#24

tse12 (needs soil installed, cables connected to DSM and dressed)

- 20m: EC150#1390, EC100#1704, CSAT3A#2043, NR01#2534
- 10m: CSAT3[OU]#1552
- Soil: mote#23, TP12, HF03, TS14, QS02

tse13

- 100m: TRH#111, #56
- 80m: TRH#33, #44

- 70m: DSM tse13t; mote#
- 60m: TRH#127, #17
- 40m: TRH#55
- 20m: TRH#3
- 10m: TRH#107
- 2m: TRH#119, #106
- DSM tse13b; mote#

~~tse14~~ (never instrumented)

~~tse15~~ (never instrumented)

rsw01

- 20m: METEK#010212 236
- 10m: METEK#2007 08015/01
- 2m: PTB220#U4110004 (B9)
- mote#19

rsw02

- 20m: RMY#1368 (had spikes in ops testing, but seemed okay out of the box)
- 10m: RMY#499 (had problems receiving commands in ops testing)
- 2m: Setra#6919221 (was labeled rsw03?, but rain washed off)
- mote#12
- Analog input) CPU 000092 (no number on box)

Teardown: 20m RMY #1257  
 10m RMY #00499  
 2m Pressure # 6919221  
 Mote # 44, DSM # 257(RSW02X), DSM (w/

rsw03

- 60m: TRH#48
- 40m: TRH#51
- 30m: DSM rsw03; mote#
- 20m: TRH#56, #33
- 10m: TRH#126, #08
- 2m: TRH#25, #108
- 2m: Setra#6919220 (labeled rsw02)

rsw04

- 10m: CSAT3A #P1008/EC100 #1816; Li7500 #0813
- 2m: Setra #6919218
- Rad: mote#47, Rswin#940181, Rswout#040740, Rlwin#030675, Rlwout#970379
- Soil: mote#, TP16, HF19, TS03, QS13

rsw05

- 10m: METEK (DTU) #0102122233
- 2m: Setra #6919219
- mote #6
- CLOCK 4192

Teardown: 10m Metek USA-14 #0102122233  
 2m Pressure #6919219  
 Mote #6, DSM #22 FLUX ARRAY (siesmometer) #5007328 IICLOCK - 130

rsw06

- 60m: TRH#40
- 40m: TRH#46
- 30m: DSM rsw06; mote#
- 20m: TRH#65, #31, #15
- 10m: TRH#5
- 2m: TRH#109

rsw07

- 5: CSAT3A #1244; EC100 #1823
- 10m: CSAT3 #1121
- mote #11

rsw08

- 20m: METEK#
- 10m: METEK#
- 2m: PTB220#S0610002 (B5)
- mote #

rne01

- 10m: EC150#1807, EC100#1799, CSAT3A#1007
- Rad: mote#43, Rswin#970380, Rswout#970377, Rlwin#100225, Rlwout#100226
- Soil: mote#22, TP17, HF18, TS06, QS05

rne02

- 20m: RMY#1354 (ARL)
- 10m: RMY#725 (ARL)
- mote#29

rne03

- 10m: EC100#1807, CSAT3A#P1005
- mote#33

rne04

- 10m: RMY(OU) #4130
- Mote #10

~~rne05~~ (won't be installed)

rne06

- 20m: CSAT3A #2033; EC100 #1821; Li7500 #1166
- 20m: NR01 #2537
- 10m: CSAT3 #1120
- Soil: mote#38, TP#, HF#H993563, TS#007, QS#E015

rne07

- 20m: CSAT3A #1009; EC150 #1388; EC100 #1701
- 20m: NR01 #2538
- 10m: CSAT3A #2046; EC100 #1818
- Soil: mote#18, TP21, HF04, TS02, QS04

v01

- 10m: EC100 #1696, EC150 #1386, CSAT3A #2031
- 10m: NR01 #2451
- 2m: CSAT3 #1124
- 2m: PTB220 #S0610003 (B6)
- Mote Soil #42, TP18, QS19, TS16, HF14

~~v02~~ (won't be installed)

v03

- 10m: CSAT3A #1003, EC150 #1433, EC100 #1810
- 2m: CSAT3A #2051, EC100 #1800
- Mote #41

v04

- 10m: CSAT3A #1001; EC100 #1815
- 10m: LiCor #1167
- 2m: CSAT3 #1550
- Rad: mote #16, Rsw.in #970378; Rlw.in #050824; Rsw.out #030676; Rlw.out #940186
- Soil: mote #52, TP14, HF05, TS13, QS07

v05

- 2m: METEK #2005 05007/01
- 10m: METEK #2007 08011/01
- 20m: METEK #2007 09004/01
- Mote # 34

v06

- 20m: CSAT3A #2048, EC100 #1822
- 20m: LiCor #1164
- 20m: NR01 # 1979
- 10m: CSAT3 #1119
- 2m: CSAT3 #1123
- Soil: mote #58, TP03, HF02, TS15, QS16

v07b

- 12m: RMY #646
- 8m: RMY #1330
- 6m: RMY #726
- 4m: RMY #1353
- Soil: mote #50, TP13, TS20, QS18, HF12
- 2m: PTB220 #491125 (B10)
- 2m: CSAT3(OU) #1553

v07t

- 20m: Li7500 #1163
- 20m: NR01 #2535
- 10m: CSAT3 #1123
- Mote #49

(all should have holes taped or puttyed)

Initially, all RMY and METEK set with "north" pointing along boom away from tower, so "north" is approximately SE, but this changed later.

Distance from center of boom to vertical center of array (measured in ops center):

- RMY81000: 52cm
- METEK: 66cm
- CSAT3: 8cm
- CSAT3AW: 0cm

Base distances, measured on tse09, tse10, tse11:

- 100m: inside of metal "U" channel to bottom of first tower section: 12.4cm
- 60m: inside of metal "U" channel to bottom of first tower section: 4cm (different construction)
- 30m (assume for 10&20 as well): inside of metal "U" channel to bottom of first tower section: 12.4cm
- Distances to top of concrete vary from 0.6cm more (thickness of the metal U channel on top of the concrete), to 4cm less (U channel embedded down into the concrete).