

Station name	NASA SE
People present	
Purpose	Maintenance / installation / take-down / quick visit / emergency
Date	19 June 2021

Notes: Drilling using milwaukee

AWS to do list		Check after maintenance	
Part	Part shipped (Y/N)	Shipped part number	Part number upon departure.
Radiometer			Clean? Y/N
Iridium modem IMEI number			
Inclinometer/compass		Attached to the radiometer? <input checked="" type="checkbox"/> Y/N	
Satellite antenna			
Wind sensor		Black box pointing toward the radiometer (i.e. along the boom)? Y/N	
Temperature / humidity assembly		Fan spins? Y/N Sounds OK? Y/N	
Sonic ranger (lower)		Old sensor with new membrane? Y/N	
Sonic ranger (upper)		Old sensor with new membrane? Y/N NB: make sure not being buried next winter	
Thermistor string		Initial depth of upper sensor:	
Solar panel		Clean? <input checked="" type="checkbox"/> Y/N	
GPS antenna		At top of logger enclosure? Y/N	
Data logger		Type is CR1000 or CR1000X or what?	
Multiplexer		Clicking during measurement cycle? Y/N	
Logger enclosure		Replaced (including everything inside)? <input checked="" type="checkbox"/> Y/N New desiccant bags? Y/N new	
Battery box		New box? <input checked="" type="checkbox"/> Y/N New desiccant bags? Y/N	
Extension inserted?		Length: Notes: —	
Mast		New AWS mast? <input checked="" type="checkbox"/> Y/N	

NSE 66° 28.667'
estim. 42° 29.651'
2021

SDOME 63° 8.924'
estim. 44° 48.988'
2021

- NSE work 19 June included digging 2.5 m to recover existing AWS logger box
- light winds
- Norwegian: Bent did most of the digging.
- present JEB, APA, DVA, CLAN
- + Borek crew Jim + Chantal
- Norwegian skiers visited the site the day before.

NSE total time on
site 5.00 hours.

solar panel top 50 cm
top of mast 5
" of top 90

mast core 1 13 cm

rvh

1 1778 33 cm Q1

NSE old station 2021:

N 66.477759°

W 42.493844°

NSE new station 2021:

N 66.477778°

W 42.493665°

2	2689 g	80 cm	Q1
3	1549 g	101 cm	Q1
4	2520	134 cm	Q2
5	1666	159 cm	Q2
6	2964	201	Q1.5

NSE probing 19 June

hard layer @ 110 cm

PSS

170, 110, 175, 173, 110, 173

Hard layer: 105, 113, 113, 108, 105
109PSS 172, 168, 168, 170

Core run 2 9 cm

1 1924 g 83 cm Q1

2 1210 g 117 cm Q1

3 1130 g 40 cm Q2

386 g 13 cm

PSS
year
2020underlain by ice hear
170 cm total
depth!

site: NSE 2021 old date: June 19, 2021

lat: lon: elev:

who: JASON BOX

g - g T layering etc
depth 79 1 -9

10-20 83 1 -10 thin @ 26

20-30 88 2 -11 crust

40 89 2 -11 2mm @ 36

50 94 1 -12 inclined layer
@ 42 + 50

60 116 3 -11

70 100 3 -13 4 mm hoar

80 98 1 -13 @ 79

90 95 1 -14

100 98 3 -15 103, 108

120 105 2 -16

130 95 1 -17 136-137

140 98 2 -16.5" 142 hoar 0.5cm

150 100 3 -17.5 crust 149

160 98 3 -15.5 " 158

170 141 -760 -17.5 ice lens 168 7mm

180 -760 167 -15 177-179

190 372 -15 most ice

200 177cm

sums 165

⊗ 140-150 111 +

⊗ 130-135 112

cm

g

Scale: 1 square =

NSE

19 June

old GCNet

top of upper boom
radiometer @ -105
cm

final survey of new AWS

wind 1 278 cm
sonic " 232
lufft bottom 259
enc door bottom 195

wind 2 270 395 cm
+ 125

137 373
375

boom difference is 120

lower boom 359
upper boom 239
bottom

T string uppermost sensor
- 30 cm

Scale: 1 square =