

5/25/2005

now  
plan is to extend  
Nasa-U, collect data  
at NGRIP, extent @  
summit, overnight there.  
- NASA - U  
~ 22 54 departure,  
3h25 m ground  
time.

before:

47 cm lower arm  
80 cm profile T/H

-21 cm = junction  
bottom of top mast

after:

+  
367 = profile arm  
80  
227

NASA - U Pit.

J. Box empty  
7dag

depth	weight	g
0-10 cm	10	11
20	10	58
30	10	64
40	10	53
50	10	55
60	11	11
70	10	64
80	10	90
90	10	82
100	10	69
110	10	59
120	10	39
130	10	81
140	10	65
150	10	98
160		
170		

125 summer  
layer



NASA-U pit stratig.

5/25/05

crust @ 6 cm

layer transition @ 16

" 18

23

33

wind crust 49

" inclined 57

" " 61.5

layer transition @ 66

inclined wind crust

@ 79.

layer xit @ 81

1 mm thick crust 97.5

2 mm depth hear

layer xit @ 101.5

3-4 mm chunky crust @ 109.5

1 cm depth hear @ 120

last year summer @ 125

next layer transition @ 140

5 mm depth hear @ 145

wind crust @ 150

" @ 155

NASA-U Grain size  
5/25/05

SURFACE 1 mm grain 103.5 cm  
dendrite 20.5 mm  
aggregat 30.1 cm

sugar snow, by 10.1 cm

grains begin @ 50 "

104 cm 1 mm 60.5 mm

70.5 mm

1.5 mm grains 80.30 mm

@ 130 chunky 90.40 mm

crust layer. 100.5 mm



NGRIP

5/25/05

clock 1 min slow  
cables causing lean  
towards NNE <sup>200 W</sup>  
~ 81.5 <sup>of mag. used</sup>

heights

bottom of profile: 30 cm  
T/H 1 38 cm 78 cm 79 cm  
Wind 1 73.5

profile separation 121

198  
T/H 2 + 42 from arm  
Wind 2 + 42 bottom  
191 cm

NGRIP

Pit 5/25/05

~ 23:45 Z

tare wt

717 g <sup>og cutter</sup>  
g/l.  
307

0 - 10	361
10 - 20	345
- 30	314
- 40	288!
- 50	288
- 60	407
- 70	334
- 80	65-75
70-80	80-90
- 100	350
90-100	335
- 110	360
120	332
	325

layering. pix taken

crust @ 8 cm, winched @ 15  
1 mm white crust @ 36  
soft snow above to 32  
thin crusts 38, 39, 40  
lg soft grains 52-55  
top of summer @ 57 57  
thick crust @ 72  
crust @ 85, 91

summer 2003 @ 105 117  
th @ 110 2 cm th @



Konl's idea's

29 grain size change  
C 50  
C 115

Summit

5/26

1 AM SFT  
clock is on

V1 32 cm  
V2 32 + 123 cm

FH1 38  
TH2 38 + 114 cm

frost on NR Lite

" " S↓ 24554

none on S↑ 24562 S/N

pyranometers are type  
w white resistor  
packet, red, white, black,  
clear.

~ 1 cm

frost on radiation shields  
see pix



Summit Pit

5/26/05

~52

cutter wt.

depth

0-10 986-714

20 325

20 353

40 351

50 301

60 358

70 335

80 311

90 294

100 324

110 330

120 383

130 326

← summer '04

sugar

sugar

sugar

Summit Stratig.

5/26/05

0-10 soft fresh

10-15 layer

15-24 layer

24-46

46 wind crust incline

46-58 fine, all fine also

64 wind crust

64-72 larger grains

70-75 soft

84 2cm depth hoar

90 interface

102 1.5 mm white

crust, inclined.

below 102 grains again

larger.

summer layer @ 86?

grains &gt; 1 mm below 86

" &gt; 1.5 mm " 102



South Dome AWS  
5/27/2005 T.B. R.H. + 4th row  
clock accurate!

replace 2 sonics  
only 1 existing

Wind 1: 35, 2: 105+35

TH1: 22, 2: 22+142

5↑ 28086  
5↓ 28091

tower leaning S ~5°

ice in lower net dome

new TC, 1m spacing.

Transmitter clock was  
accurate within 10 sec,  
unclear why we were not  
rx transmission & unpow-  
ered and re-activated it.

\* 2nd cell read 2001

S Dome 5/27/05  
P2

new TC + ring  
depths 1, 2 5 - 20cm  
3 - 46  
4 - 1.46m  
... - 2.46...  
each meter