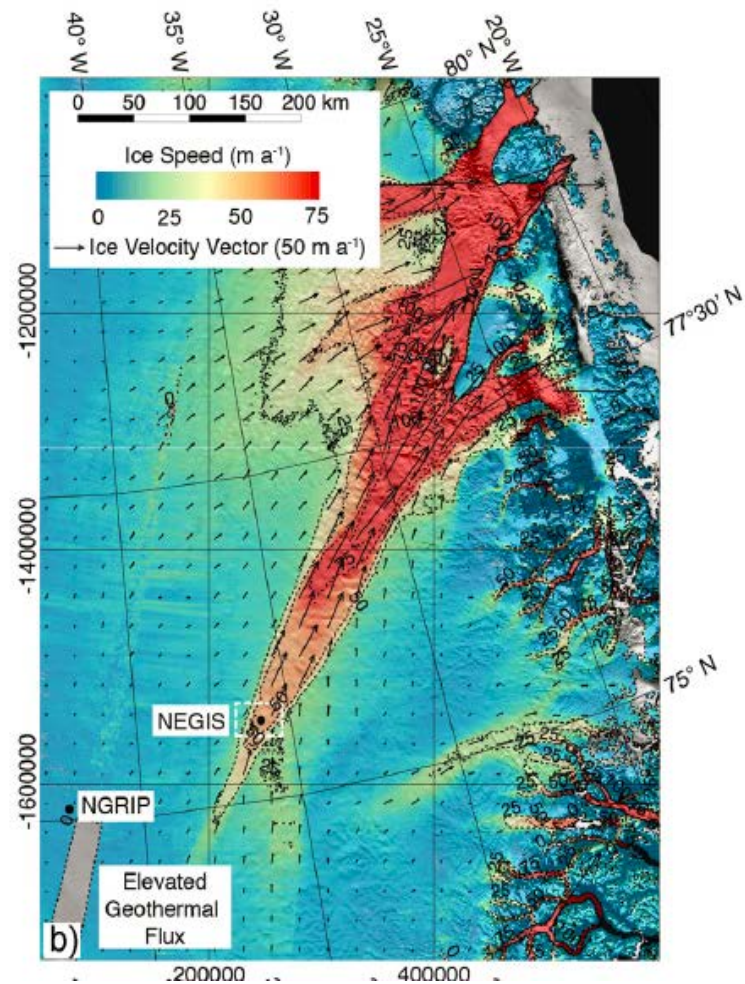
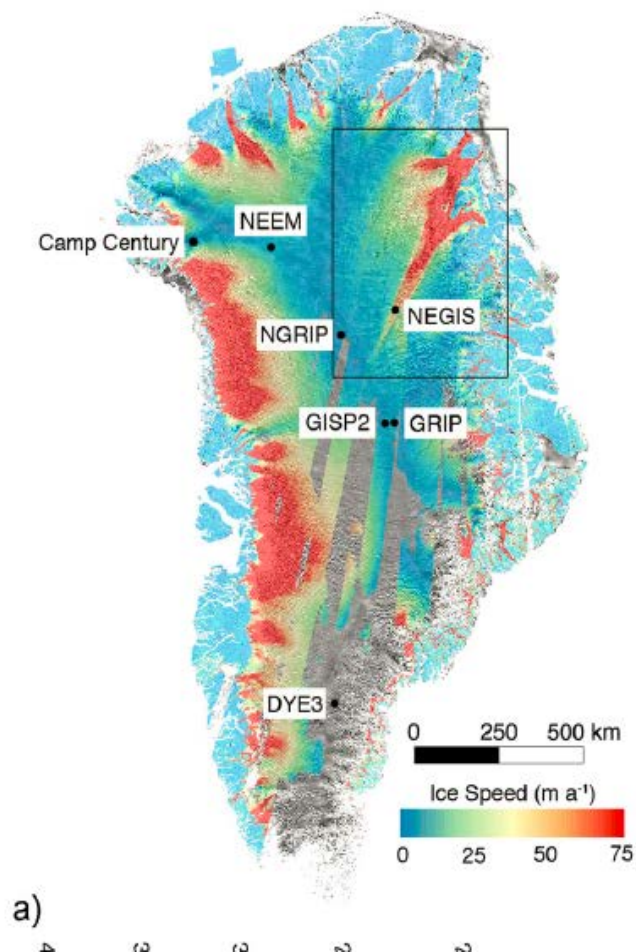


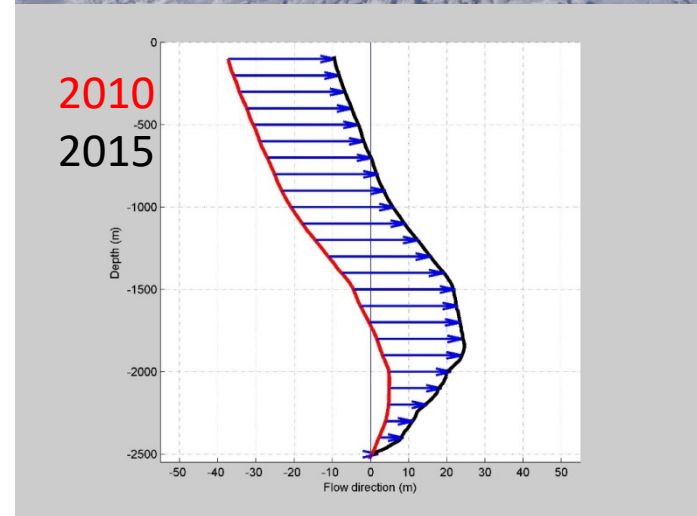
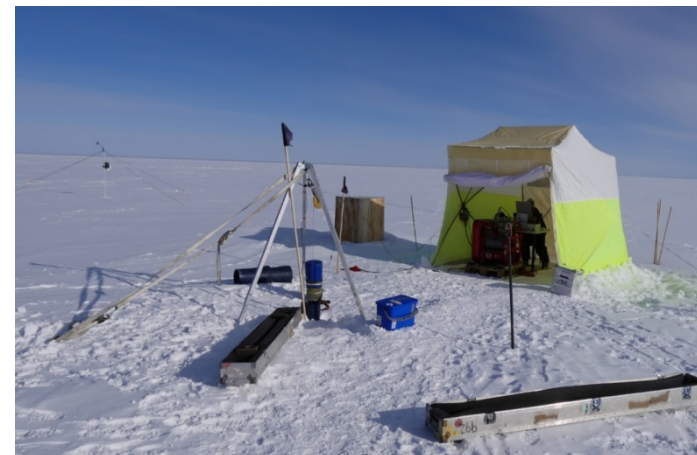
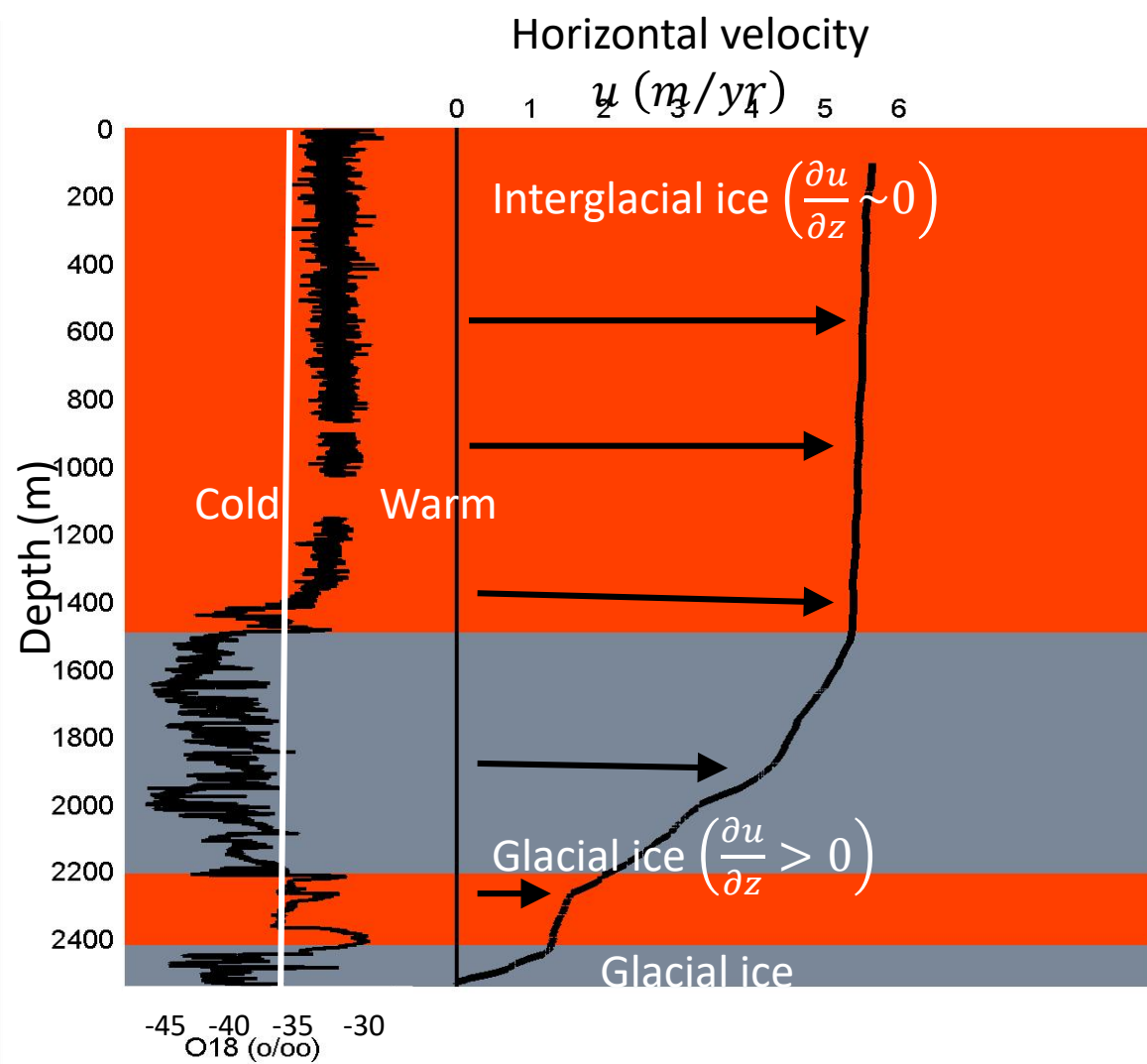
EGRIP camp, June 2017

Drill site

IClimate center opening – 5.december 2017
The North east Greenland Ice Stream – What
Makes an ice stream "go"?
J.P.Steffensen, Niels Bohr Institute

Figures from Christianson et al. 2014



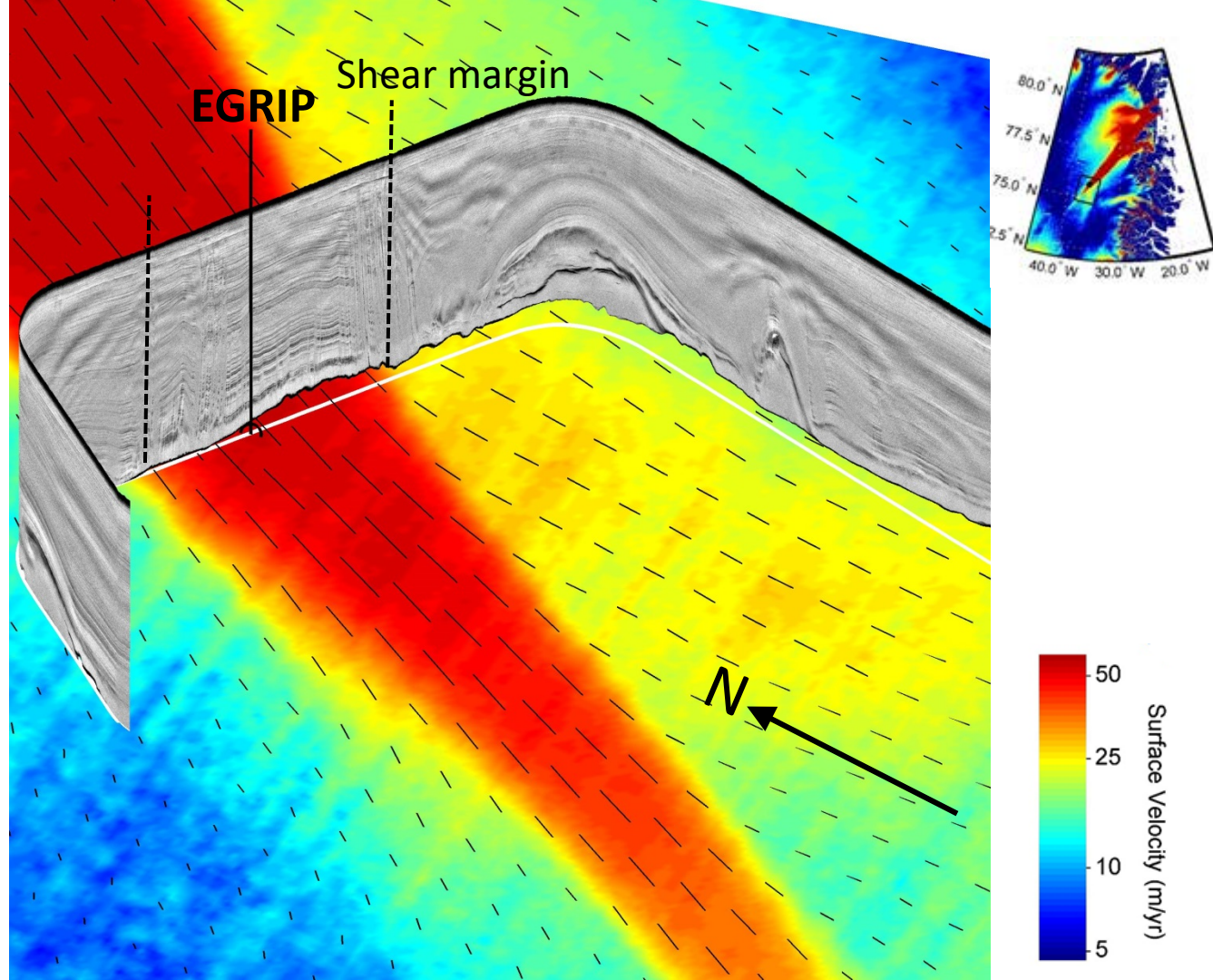


NEGIS

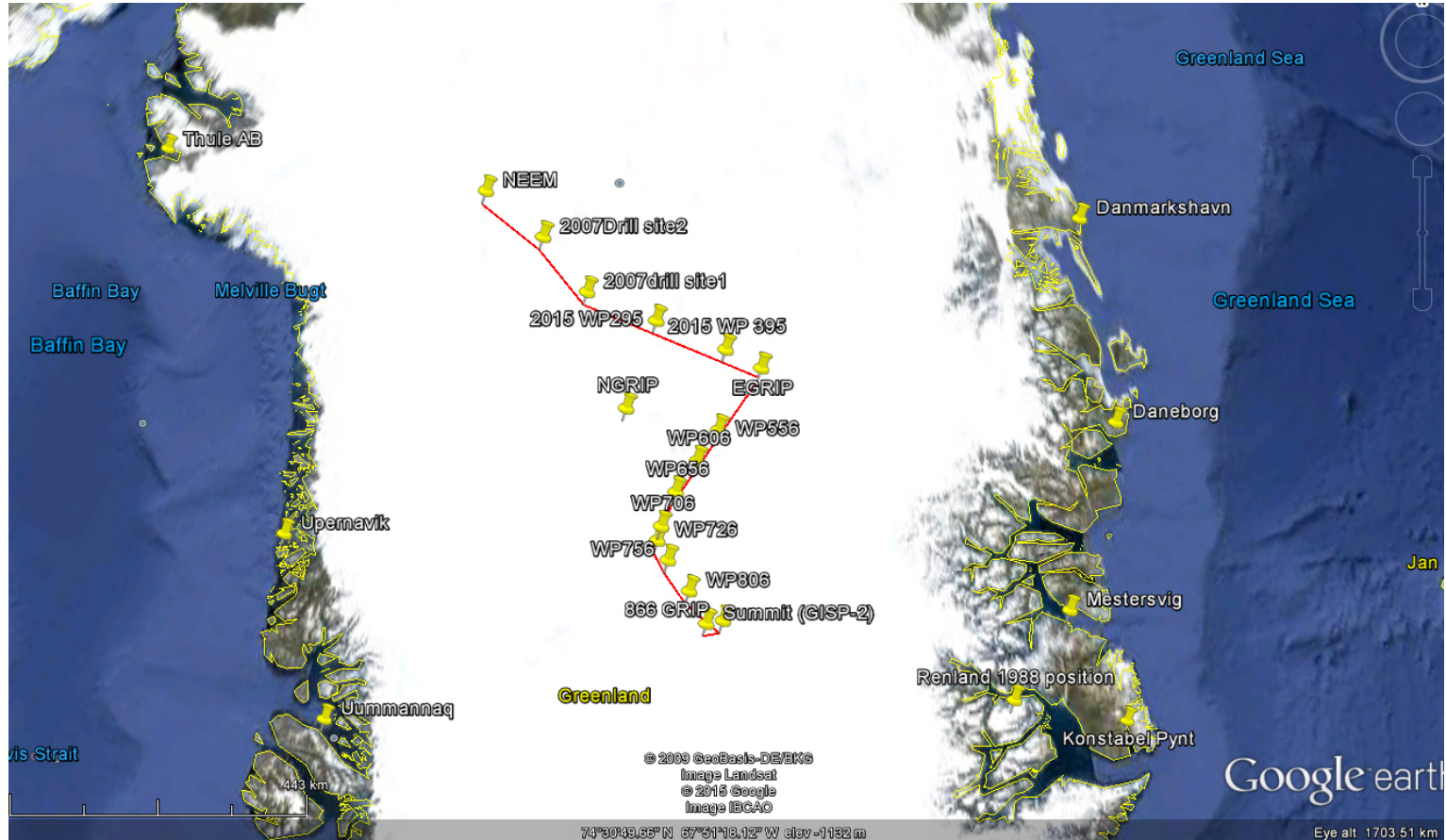
EGRIP drill site in the center of NEGIS with a surface velocity of 55 m/yr.

On the IceBridge Radio Echo Sounding line, clear stratigraphy (layering) is seen at least 50,000 years back in time.

The ice is 'ripped' at



2015 – NEEM EGRIP Traverse



EGRIP 2015-2020

2015: Moving NEEM camp to EGRIP. Completed.

2016: Construction and outfitting of science and drill trenches. 100 m pilot hole and casing.

Expanding camp capacity. Completed.

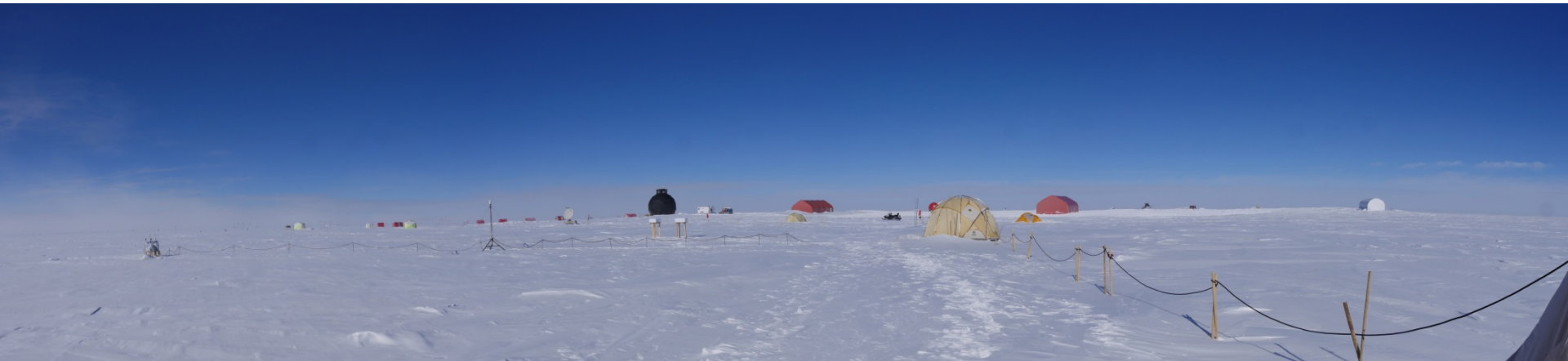
2017: Drilling to 900 m. Processing; but not brittle zone.

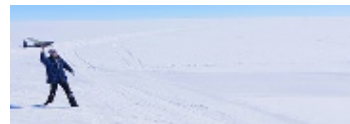
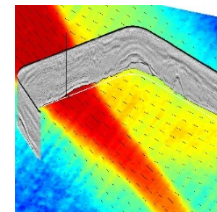
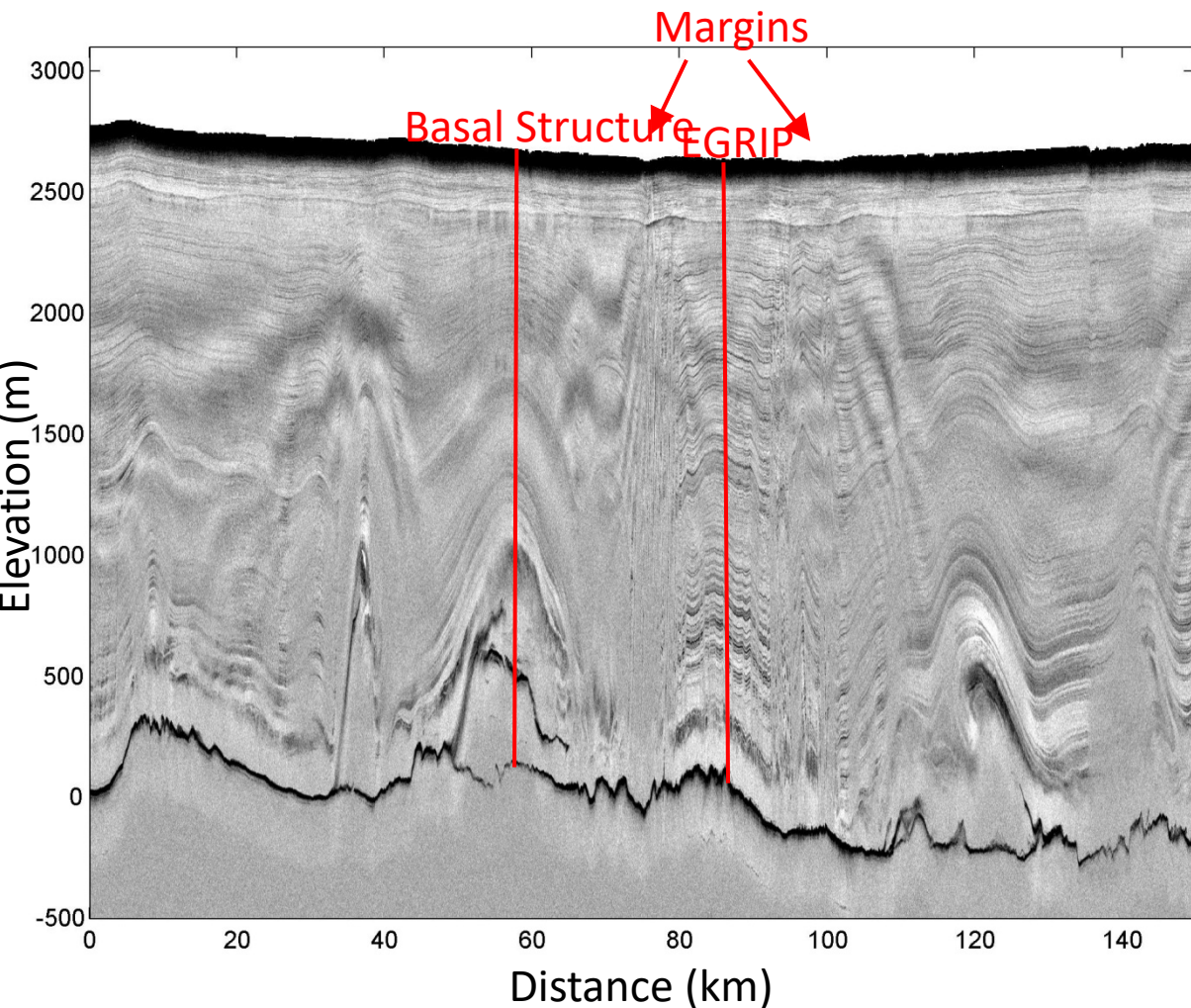
2018: Continue deep drilling. Processing incl. Brittle zone. AWI Basler operations.

2019: Finishing deep drilling (2560m). Experiments in hole. Drilling into base? Shallow coring.

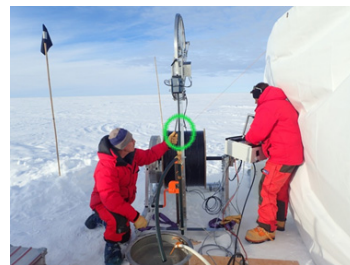
Camp is being down scaled.

2020: Last experiments in hole. Shallow coring. Camp is packed down for next time.

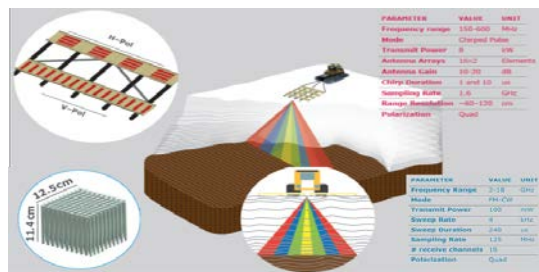




Surface program
Drone, GPS



Rapid Access d
RADIX



Surface Radar Measurements

440 km overland traverse
with 55 ton main dome
and generator in tow.



Traverse heading SEE towards EGRIP.

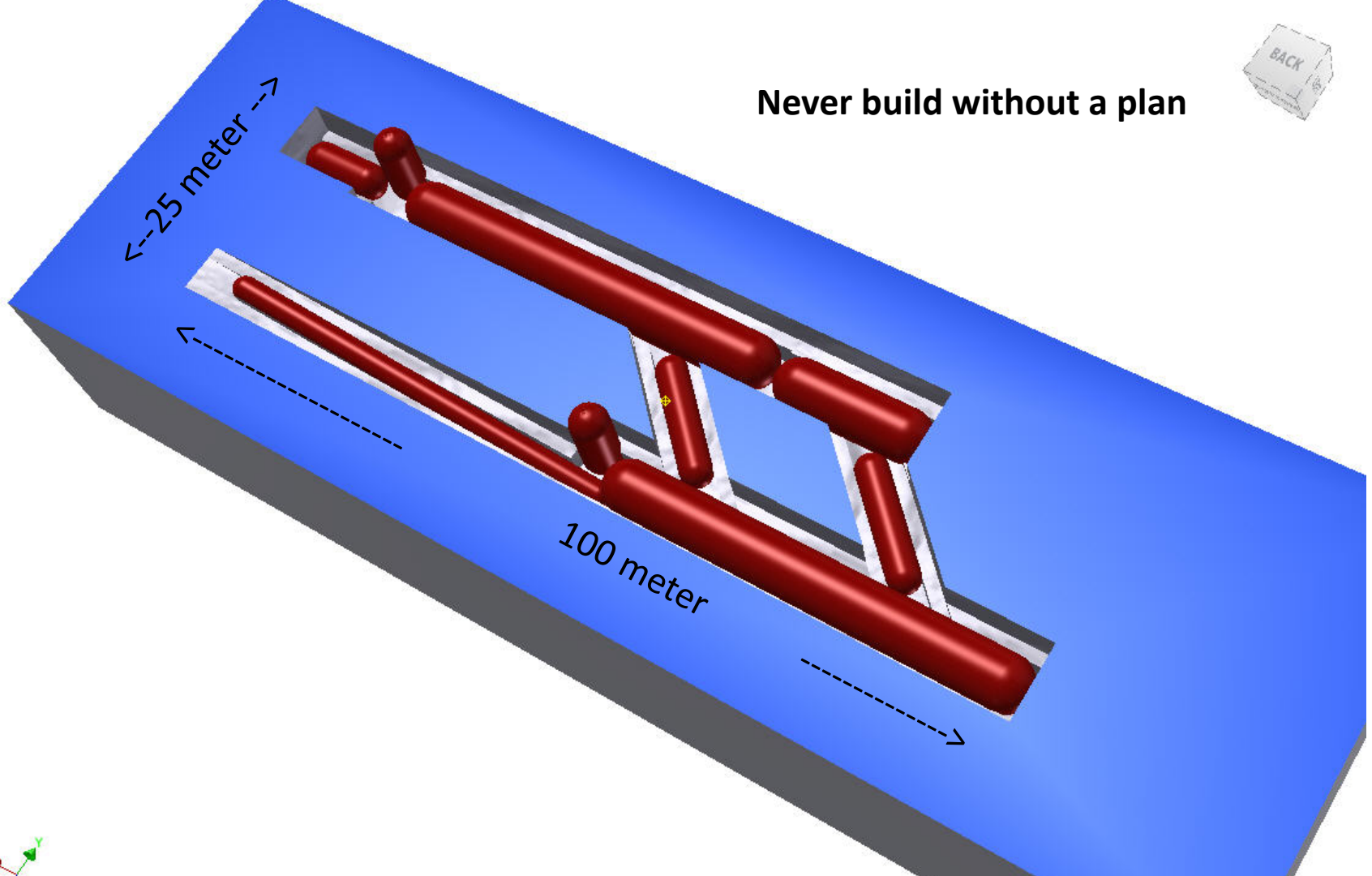


Traverse going into the trench marking
the edge of the
North East Greenland Ice Stream
(NEGIS).



**Test of 5 m wide and 40 m long
balloon at Presenco A/S, Kolding.**

Never build without a plan



Excavation of trenches, EGRIP camp, May 2016

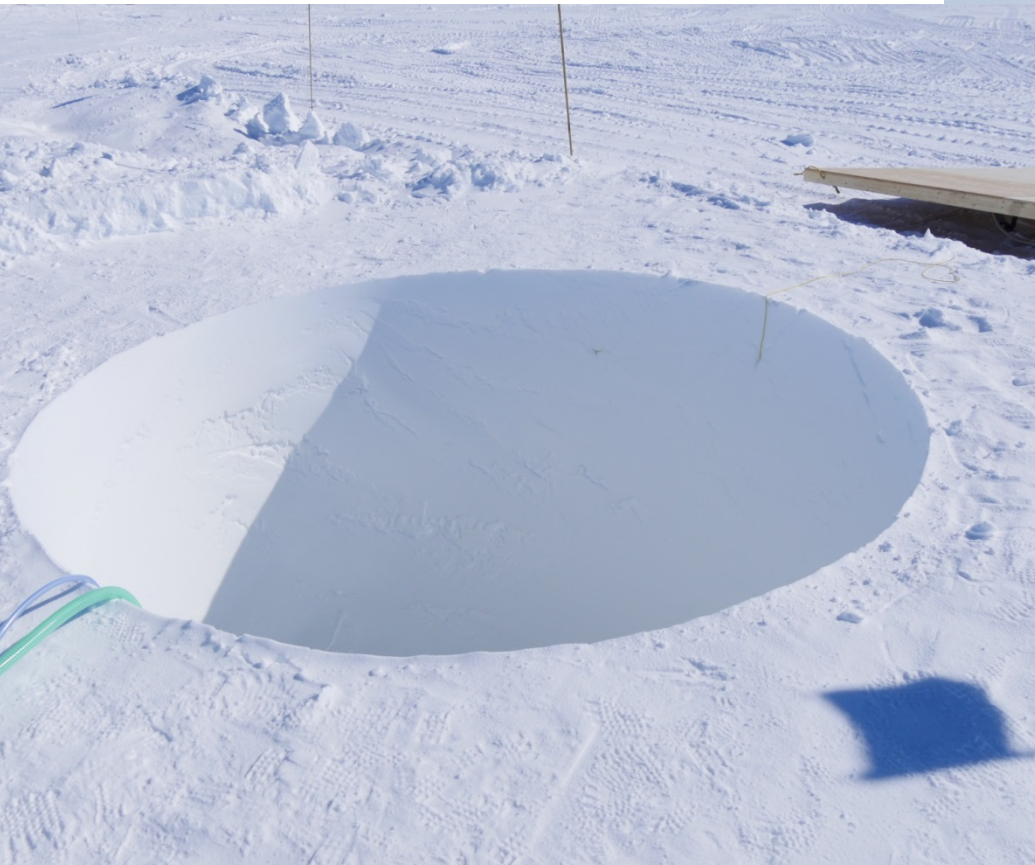








Elevator shaft after deflation of balloon



Cleaning out after balloon removal
EGRIP camp, May 2016



Drill and science trenches as seen from surface.

Elevator

Staircase

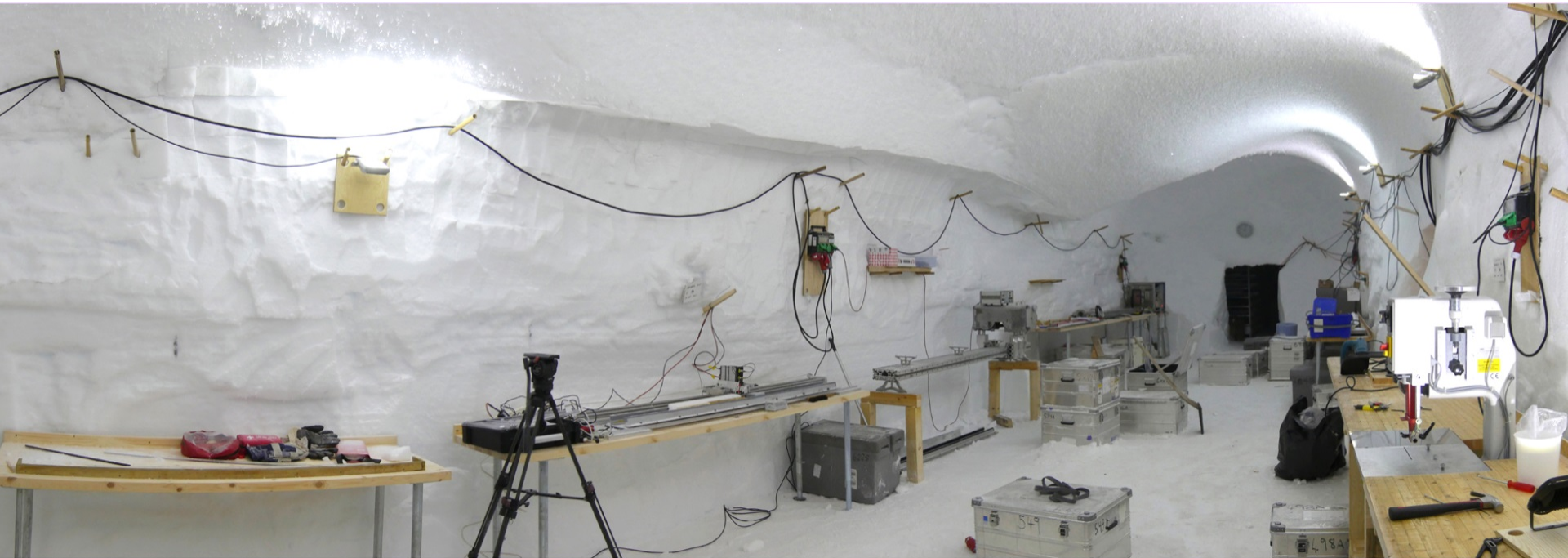
Entrance ramp



Drill trench 2017



Science trench 2017



EGRIP communication revolution:

3m VSAT disk linked to satellite. Large bandwidth – video streaming possible
(Better than Kangerlussuaq).

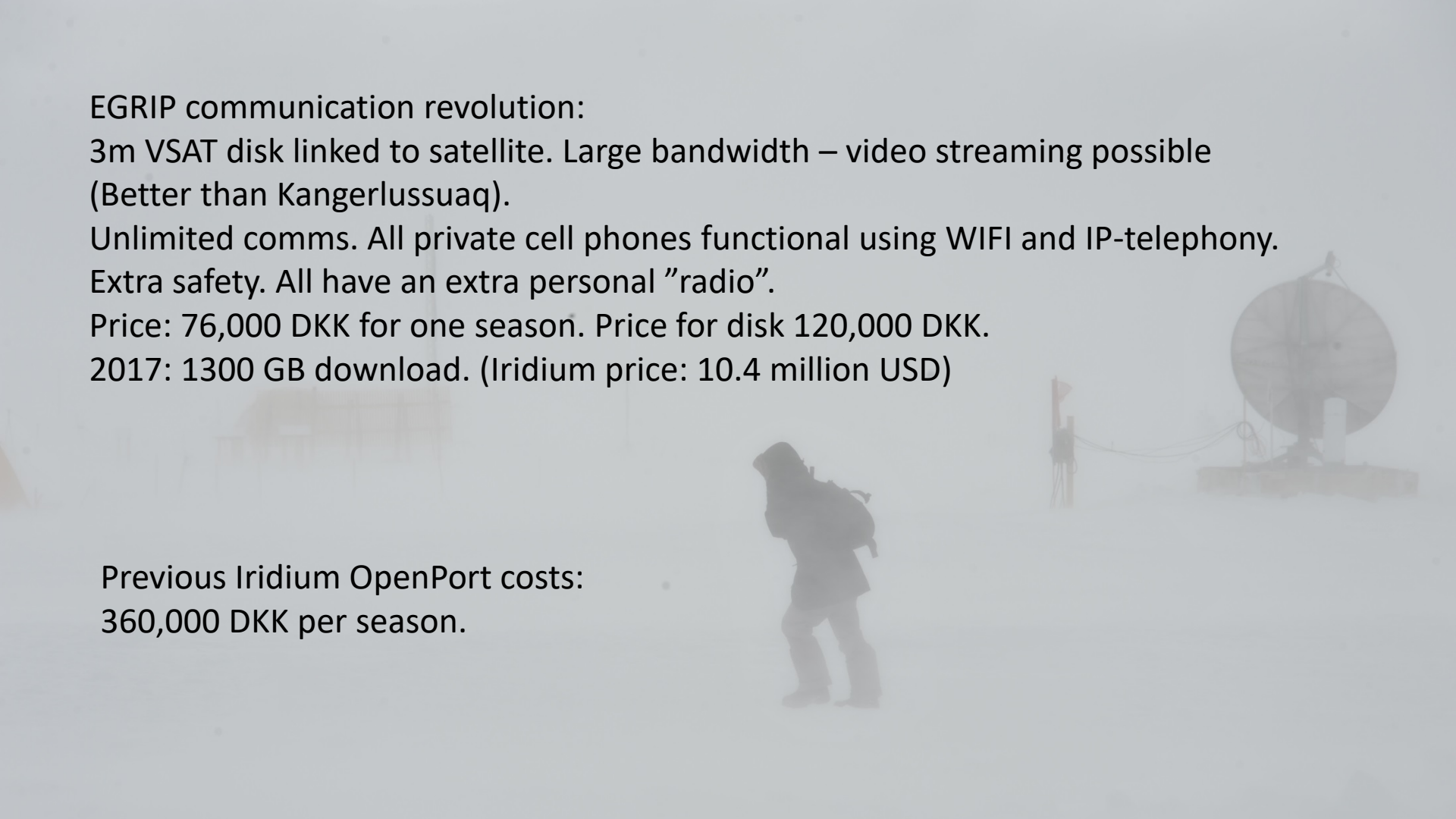
Unlimited comms. All private cell phones functional using WIFI and IP-telephony.
Extra safety. All have an extra personal "radio".

Price: 76,000 DKK for one season. Price for disk 120,000 DKK.

2017: 1300 GB download. (Iridium price: 10.4 million USD)

Previous Iridium OpenPort costs:

360,000 DKK per season.



Info page EGRIP and Center for Ice and Climate.

- Description of Center for Ice and Climate:
www.iceandclimate.dk
- Rationale and program for EGRIP: www.eastgrip.org
- EGRIP logistics (69 mill. kr): 25 mill. DKK (A.P.Møller foundation), 10 mill. (K.U. co-financing), 10 mill. (U.S.A. - NSF), 6 mill. (Germany), 5 mill. (Japan), 5 mill. (Norway) and 8 mill. (fra Schweiz, China, S.Korea, Italia og France)
- EGRIP (og center) science, a.o. Villum investigator (70 mill.), ERC synergy grant (ca 25 mill.).

Actual and planned man days in Greenland :

Year	In camp	In SFJ	FOM	DV's	Average camp load
2015	447	149	40	0	10
2016	1665	237	275	35	20
2017	2862	270	236	30	25
2018	2500	250	230	20	25
2019	2000	200	230	32	20
2020	1500	150	230	20	15
total	10974	1256	1241	137	

Days of field work:

2015:	Apr-27(May-1)	Jun-9 (Jul-20)	43 days (80 days)
2016:	Apr-27 (May-1)	Aug-14 (Aug-15)	105 days
2017:	Apr-26 (May-1)	Aug-22	113 days
2018:	Apr-27 (May-1)	Aug-13 (Aug-15)	104 days
2019:	May-1	Aug-15	107 days
2020:	May-1	Aug-1	92 days