

Greenland Trees 2021 field activity report



new greenhouse installed in Narsaq



transplantation of shore trees



cabin repainted in Qanassiassat



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In-kind support from Hotel Narsaq has been of high value. A special thanks is to Ingimar Magnússon who greatly facilitated the Greenhouse construction. His brother Fridrik Magnússon was also of great assistance with transporting the greenhouse from the harbor to the hotel and helping with building logistics such as ordering cement.

Narsaq resident and tree enthusiast Niels Sakariassen has also greatly assisted this year's fieldwork by giving us 75 trees for planting, loaning tools for the Greenhouse build and accepting 15 trees back to his backyard tree nursery.

About Greenland Trees

Greenland Trees is run by scientists, some already in Greenland for glaciological work.

The Greenland Trees mission is:

- to partner with Greenlandic society, emphasizing youth engagement and education;
- to restore the landscape in a heavily degraded former military base and other urbanized environments;
- to increase biodiversity;
- to support forest research;
- to drawdown atmospheric CO₂ into new forests and soils;
- to have a positive environmental legacy;

and to do so with full transparency, as part of the registered charitable Dasht Foundation (<https://www.dasht.nl/>).

Greenland Trees has a sister project. Tajikistan Trees (<https://tajikistantrees.org/>) reforests Tajikistan to bring harmony to a land of sharp contrasts.

Greenland Trees 2021 achievements

Establishing a greenhouse in Narsaq

We built a new greenhouse for the future production of tree saplings from seeds, cuttings and to provide an educational facility for primary schools in the area. The Greenhouse is also to provide fresh herbs/vegetables for the hotel's restaurant. In the coming years, the aim is to plant the wild tree saplings that were grown in the greenhouse, saving carbon emissions from no longer importing trees from Iceland, reducing per-tree expenses related to tree purchase and shipment, and promoting collaboration with Greenland residents.

Quite some research went into choosing a greenhouse that can withstand south Greenland weather conditions, particularly winter storms. The 7 m long x 4 m wide x 3 m high structure was ordered and shipped from Polycrub on the Shetland Islands. The outer 'skin' is a very strong polycarbonate plastic. The greenhouse shipment arrived in Narsaq early August, 2021, in time for the start of the GT field campaign that had its main activities from 16 to 31 August, 2021.

We built the greenhouse just behind Hotel Narsaq, along the foundation of a greenhouse that stood there in the past. The construction work totaled 30 person-days; more than the time anticipated based on PolyCrub information. The added time can in part be explained by the need to fabricate some special tools, inexperience in greenhouse building, changing crew, and rainy conditions during the first half of the build.



Nevertheless, upon departure from Narsaq, the greenhouse was finished and ready for winter.



We plan to return in May, 2022 to set up the greenhouse interior, including the initialization of seed and cutting propagation.

Moving young, self-propagated trees away from the salt-water fjord

108 x one to eight-year-old self-sewn coniferous trees were transplanted away from a hazardous (too near salt water) shoreline location into the Qanassiasat plantation. 15 of these were transported to a nursery in Narsaq for later planting in a more permanent location. This activity forms a very interesting future activity not only as there are at least 1,000 more individuals that we aim to transplant in 2022 and beyond, but that these individuals are already adapted to the microclimate of this part of Greenland and are delivered automatically by Nature herself. That is, no additional carbon-fueled activity was needed to generate these individuals. We want to work more with Nature going forward.

Qanassiasat maintenance

Repainting of the Qanassiasat forest cabin

A major activity was repainting of the cabin at the Qanassiasat plantation. The activity sustained that resource for our habitation. The owners, represented by Arnaq Bjerge Petersen, responded “Thank you so much for the fine work you have done. The cottage needs repair work and we are happy for all the help we can get. Unfortunately, we almost never use it, even though we often talk about going there.”¹

Fence repair

We surveyed the fence perimeter and made several repairs. Prompted by apparent loss of some 2020 plantings in the plantation due to a hole cut in the fence sometime in the previous year, for unknown reasons, a strategy emerged to 1.) focus our planting more

¹ “Tusind tak for det fine arbejde I har lavet. Hytten trænger til at blive repareret og vi er glade for al den hjælp vi kan få. Desværre bruger vi den næsten aldrig, selvom vi tit taler om at tage derind.”

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on plant species that the sheep are a lot less interested in grazing, 2.) identify areas to plant that have no grazers.

Outreach and education

Schools

Due to Covid-19, our efforts to develop an educational program for and with schools in Greenland has been largely on hold. Education program activities were limited to discussing with a potential volunteer our ambition to follow through with education program plans mentioned at the end of this report.

Narsarsuaq museum

We produced 3 posters that were delivered to the museum in Narsarsuaq. Ole Guldager framed the posters and they now occupy their own room in the museum.



three new Greenland Trees posters in the Narsarsuaq museum

Persons involved in GT field activities 2021

Persons joining the field campaign

name	initials	nationality	description
Jason Box	JB	US	GT co-founder, field assistant while already in Greenland for glaciological work
Armin Dachauer	AD	CH	field assistant while already in Greenland for glaciological work
Andreas Mikkelsen	AM	DK	field assistant
Ditte Emile Wittendorf	DW	DK	field assistant
Dirk van As	DVA	NL	GT co-founder
Niels Sakariassen	NS	GL	Narsaq resident, tree enthusiast with backyard tree nursery, works for Royal Greenland
Ingimar Magnússon	IM	IS	forester, brother of Hotel Narsaq owner Fridrik Magnússon
Fridrik Magnússon	IM	IS	Hotel Narsaq owner
Michael Strassburger	MS	GER	Documentary Filmmaker based in Cologne, Germany - Research Tour South Greenland. Connected to Bergwald Projekt Switzerland.
Kathy Young	KY	US	volunteer, already in Greenland for sailing and working very much on the Greenhouse, cabin painting and transplanting adolescent saplings
Steve Munsell	SM	US	volunteer, already in Greenland for sailing and working very much on the Greenhouse, cabin painting and transplanting adolescent saplings

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Alun Hubbard	AH	WA	volunteered his sailboat for transport of people and 75 trees from Narsaq to Qanassiasat and back
Dorth Dahl Jensen	DDJ	DK	Greenland climate scientist, volunteered for 3 days on Greenhouse construction and planted ca. 20 adolescent saplings in Qannasiassat.
Ole Guldager	OG	GL	Narsarsuaq museum director

Day-by-day log

Mon 16 August

Location: Narsaq, crew: AD, DW, AM

- AD, DW, AM to Narsaq
- AD gathered shovels and identified cargo

JB was stuck in Nuuk after bad weather (fog, rain) had his flight canceled and rescheduled for 18 August.

Tue 17 August

Location: Narsaq, crew: AD, DW, AM

- Fridrik had the greenhouse delivered from RAL/harbor to the hotel back.
- 9 AM WhatsApp meeting between JB, DW, AM, AD and IM, review of priorities and discussion of ideas on how to excavate post holes.

Foundations and Posts

- tools to get
- selecting foundation orientation with Ingi and Fridrik
- clear building site
- drive in 4 temporary pins, 4m apart and one m longer than the final building will be, and then tie a piece of string tightly between the pegs to create a rectangle, as shown in Photo 01 page 10 in the [Polycrub Construction Manual](#).
- marking 28 post center holes using string and stakes according to Construction Drawing [Construction 4x12m](#)
- excavate holes
- Drive a post into the center of each hole, just enough to hold it in place, and double check the post spacing as you go.
- The excavation of post holes to a depth of 65 cm was done using the GT shovel by AM and AD while DW took photos and corresponded with JB.

Wed 18 August

Location: Narsaq, crew: AD, DW, AM

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- Concrete poured by local company Permagreen, phase 1 to depth 35 cm below ground for each of the 24 holes.
- JB depart Nuuk 13.50, arrive Narsarsuaq and transit to Narsaq by Targa boat, checked into hostel
- sailboat arrival of AH, KY and SM 18.15 local time. They had strong winds and rainfall in their transit from Nuuk that began 2 days earlier.
- group dinner Hotel Narsaq, rainfall



arrival of sailing vessel Gambo, used to transport trees and people one round-trip between Narsaq, Narsarsarsuaq and Qanassiasat

Thu 19 August

Location: Narsaq, crew: AD (DW and AM to Igaliq on private tour)

- trim height of posts to be 51 cm above ground
- greenhouse foundation work
- pickup of ca. 75 trees from Niels' garden in Narsaq



AD volunteering to pickup of 15 potted trees from Niels' garden in Narsaq



~50 Alaskan Willow in the large bucket in addition to the 15 potted trees from Niels' tree nursery in Narsaq

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Niels picked up JB and AD from the hotel and brought us up to his garden in his truck where we picked up ~75 plants from his tree nursery.

We transported people and trees to Qanassiasat aboard AH's boat.



transport of people and 65 plants from Narsaq to Qanassiasat

Location: Qanassiasat, crew: JB, AD, KY, SM

- fence maintenance
- fence post hammer loan from Christian Frederiksen +299 49 71 60

Fri 20 August

Location: Qanassiasat.

The crew planted 15 x ten-year-old Engelmann spruce trees brought in with us from Narsaq.



SM, AD and KY planting in Qanassiasat of 15 x ca. 10 year old Engelmann spruce trees from Niels Sakkariasen in Narsaq

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*JB geotagging all of the new plants. A list of coordinates is at
<https://github.com/jasonebox/GT2021>*

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AD, AH, JB and SM did fence repair/maintenance.



fence maintenance at the Qanassiasat plantation



SM with replacement fence post at the Qanassiasat plantation

Sat 21 August

Location: Qanassiasat, crew: ...

- transplanting of trees from shore to inside the plantation by KY, JB, DDJ
 - GPS positions marked and noted
- JB and LHO walked the northern half of the fence finding not many 2020 plants; more on the lower western fence line, very few poplar, the theory being that sheep ate most. Some poplar were hidden in the midst of willows and birch in anticipation of this problem. However, the hole cut into the fence by we imagine farmers raises an urgent need to either better safeguard the exclosure fence, else use species that grazers aren't interested in or target future areas without grazers. The latter point may not be immune to Arctic hare.
- afternoon departure to Narsaq

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JB transplanting this day 25 'shore trees' into the Qanassiasat plantation

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made a survey of the plantation to determine survival rate for the previous year's (2020) planted two-year-old plants...



examples of engelmanni surviving since 2020 planting



examples of poplar surviving from 2020 planting

JB and KY planted at least 40 Alaskan Willow cuttings prepared and provided by Niels in Narsaq. Most of the planting was in wet areas. The work went quickly because only a single shovel penetration is needed, opening a wedge, sticking in the end of the stick with the roots emerging from it.



examples of Alaskan willow planting in the Qannassiasat plantation

Sun 22 August

Location: Narsaq, crew: AD, JB, KY, SM, DJ

- Greenhouse adding of hoops to foundation posts.



unpacking the 'ribs' of the greenhouse





SM cutting greenhouse ribs after the correct length was determined



greenhouse taking shape with all ribs completed

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Mon 23 August

Location: Narsaq, crew: AD, JB, KY, SM, DJ

- Greenhouse adding of purlins and shiplap.



greenhouse taking shape with horizontal sections called purlins

Tue 24 August

Two locations today: Narsaq and Qanassiasat, detailed in the following...

Location: Narsaq, crew: AD, KY, SM, DVA

- 8.00 am departure of DDJ, LHO, CH by targa boat to Narsarsuaq for 10.00 am flight that on arrival to Narsarsuaq they learned was cancelled for 2 days!
- Greenhouse polycarbonate sheet work started, peeling off outer plastic, stowing said plastic for return to Denmark for safe incineration.
- 3.00 pm 6 person charter of Blue Ice targa by Japanese national TV company NHK with Jason to Qanassiasat for interview. Jason exploited the no-cost-to-Greenland Trees opportunity to transport 12 bags or boxes of camping gear and tools to Narsarsuaq harbor container for later use on return to Qanassiasat.
- 3.30 pm arrival of DVA. End of day: 2 out of 12 polycarbonate sheets attached.



Narsaq crew beginning to add the greenhouse 'skin'

Location: Qanassiasat and Narsarsuaq, crew: JB, DDJ

- JB return to Narsarsuaq for dinner with DDJ, LHO, CH and Elisa Cook. Elisa didn't need the gratis room which JB took.
- 9.00 pm phone call with DVA, KY and SM to form a plan for Thursday helicopter.

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*Japanese national television interviewing Jason at the Qannassiasat plantation,
discussing climate solutions*



2020-transplanted trees from the shoreline into the plantation were doing well

Wed 25 August

Three locations today: Narsaq, Narsarsuaq and Qanassiasat, detailed in the following...

Location: Narsaq, crew: DVA, AD, KY, SM

- Continued work on greenhouse, getting ½ of the polycarbonate skin on.



Narsaq crew going through the manual to get all the install just right

Location: Narsarsuaq

- JB organized the gear depot at the harbor container.
- JB met members of the TeamUmiaq (women's boat) expedition on a 62 foot sailboat "Qilak". Sophia Scott interviewed JB about climate and Greenland trees work beside our plantings behind the hotel. TeamUmiaq would join us on the trip to Qanassiasat to plant trees and film. The return to Qanassiasat was for LHO to pick up some missing shots.

Location: Qanassiasat, crew: JB, DDJ

- Arrival of 12 people (JB, DDJ, LHO, CH, Elisa Cook, Umiaq, Paul Smeets, Giorgio Cover (IMAU)). All but JB, PS and GC again left before nightfall.
- Transplanted seven self-sewn shoreline trees; two were with LHO and DDJ with CH on sound. Then LHO & CH recorded a conversation between JB and DDJ. Then I recorded with Sofia and the Umiaq crew, transplanting five trees.



Each of the Team Umiak Women's Boat expedition transplanted a tree into the plantation from the shoreline

Thu 26 August

Location: Narsaq, crew: DVA, AD

- Furthering greenhouse building after the first half of day installing 3 instruments for an ice sheet project. In spite of having 2 instead of 4 people working, the pace went up due to better strategies and fewer unforeseen complications. End of day: ¾ done with the sheeting.

Location: Qanassiasat, crew: JB, KY, SM

- 7.30 am pickup of Paul and Giorgio back to Narsarsuaq.
- JB began the painting process. Wire brushed the north side then began painting the black trim, got pretty far by the time the helicopter arrived midday, dropping off KY and SM.
- We ran out of black paint, completing most of the black areas. Though, the black lower 'skirt' of the cabin has black boards that should rather be replaced, so we didn't waste paint on them.



preparing for painting



cabin before and after fresh paint

Fri 27 August

Location: Narsaq, crew: DVA, AD

- Furthering greenhouse building. Sheeting done. Prioritizing, we put caps on all upper screws so as to not need acrobatics at a later stage, but leaving the rest for later. Shortened purlins. Started building the front wall, a rather complicated process.

Location: Qanassiasat, crew: JA, KY, SM, MS

- Arrival of filmmaker Michael Strassburger (MS) 12.30 pm. MS is doing research for a potential future film project about changes, rapid changes in environment, and whether Greenlandic people adapt.
- Most of the painting happened and was finished by 5 PM. So, the paint job is less than a 2 day job for 4 people.

We estimated the number of self-sewn trees outside the Qannassiasat plantation to be between 2000 and 5000. The individuals are very special because they successfully represent self sewn seeds that have undergone natural selection. They are growing in a hazardous location; threatened by saltwater, sea ice pushing on-shore and even iceberg tsunamis. The hazardous situation of the plants motivates our continued transplanting of these 1-8 year old plants into a safer place. This year 70 of these individuals were transplanted into the plantation and 15 were taken to Narsaq and now grow in Niels Sakkariasen's back garden, to be planted somewhere else in 2022.



*self-sewn Siberian larch and lodgepole pine (*pinus contorta*) outside the Qannassiasat plantation.*

Sat 28 August

Location: Narsaq, crew: DVA, AD

- Furthering greenhouse building. Front wall not done, but getting there. To do: door, window, shiplap.

Location: Qanassiasat, crew: JB, KY, SM, MS

- MS and JB walked the down-fjord half of the plantation, MS recording video of JB malking statements and explaining GT and climate change.
- Transplanting 24 larix, sitka spruce and an unknown species with long needles (white pine?).



*MS recorded several statements with JB that now appear in a YouTube video:
“Greenland Trees - 'Save the Trees' campaign for 2022”²*

The Rosenvinge's plants, ca. 5 Scott's Pine are apparently now all appear to be deceased, which is not surprising since the 1892-chosen plants were not well-suited for S. Greenland climate. Greenland Trees plans instead species that are well suited to this fjord after the work of Søren Odum who during the 1960s to the 1980s sampled plants from across treeline climates of the North to determine better suited plants.

Sun 29 August

Location: Narsaq, crew: DVA, AD

- Furthering greenhouse building. Built the back wall + window + front door. Also loosened/tightened many screws on the polycarbonate to make putting caps on easier.

Location: Qanassiasat, crew: JB, KY, SM

- JB and MS measured the height of 25 of the 2020 transplants, to repeat in the future to obtain average growth rates.
- Cabin tidying.
- Afternoon departure by all. JB to Narsarsuaq for GEUS work, KY & SM to Narsaq.

Mon 30 August

Location: Narsaq, crew: DVA, AD, KY, SM.

- Furthering greenhouse construction.

² <https://youtu.be/5nEiSwVREfc>

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- Permagreen phase 2, concrete filling the existing 24 and 3 new foundation holes.
- Made front window. Started work on the shiplap of front and back walls.
- Moved all remaining materials into the greenhouse.
- Tidied up the surrounding area.
- DVA made a (short) to-do list for the remaining crew.
- Noon departure DVA.

Tue 31 August

Location: Narsaq, crew: AD, KY, SM.

- Finished the shiplap and screw caps. Greenhouse done!
- Noon departure of AD to Kangerlussuaq.

Thu 8 September

Location: Narsaq, crew: KY, SM.

- 15 plants from Qanassiasat transferred to the tree garden of Niels Sakkariasen.



rear of greenhouse on 9 Sept, 2021



The Rosenvinge's plants, ca. 5 Scott's Pine planted in 1892 are apparently now all deceased.



the cabin after painting all but the lower 'skirt' which is of wood that should be replaced

Retrospective of 2020 achievements

Self-sewn trees

As already noted in 2019, and now more closely examined, three species of trees from inside the Qanassiasat fenced area are self-sewing. Among these are ca. $\frac{1}{3}$ Siberian Larch (*Larix sibirica*), then ca. $\frac{1}{6}$ Ponderosa Pine (*Pinus contorta*) and ca. $\frac{1}{6}$ Sitka Spruce (*Picea sitchensis*).



Sitka Spruce

Transplantations from 2020: a success

All but one of the sixty year-2020 transplantations of self-sewn trees from outside the Qanassiasat fenced were found to be living and growing a year later, in 2021, proving the concept for the idea for a next campaign of ‘save the trees’ in which in 2022 we could transplant some number, say 1,000, self-sewn trees into the Qannassiasat plantation and/or into an entirely new plantation.



August 2021 example of one of 60 successful transplantations from one year earlier

Poplar problems

By the 2021 visit, it was evident that the majority of the ca. 500 poplar planted last year in the Qanassiasat plantation had been eaten by sheep, despite complete fence resetting, the problem being that someone had cut a large hole in the fence up by the road. Our theory about the sheep re-entry was the result of young? farmer children either trying to access sheep stuck in the plantation or more likely that they thought sheep should have access to the plantation. JB recorded video illustrating the top of two poplar with severed tops; conclusive evidence of sheep eating. Yet, those two examples had green leaves below, so those individuals should live on! The sheep factor means that future planting should emphasize prickly pine species the sheep, evident from the shoreline self-sewn trees, are not interested in, or somehow a more reliable exclusion of sheep. Another alternative is planting in a graser-free area like Narsarsuaq or some other sheep-free place. The plantation remains attractive given no direct cost of habitation and fair weather conditions.



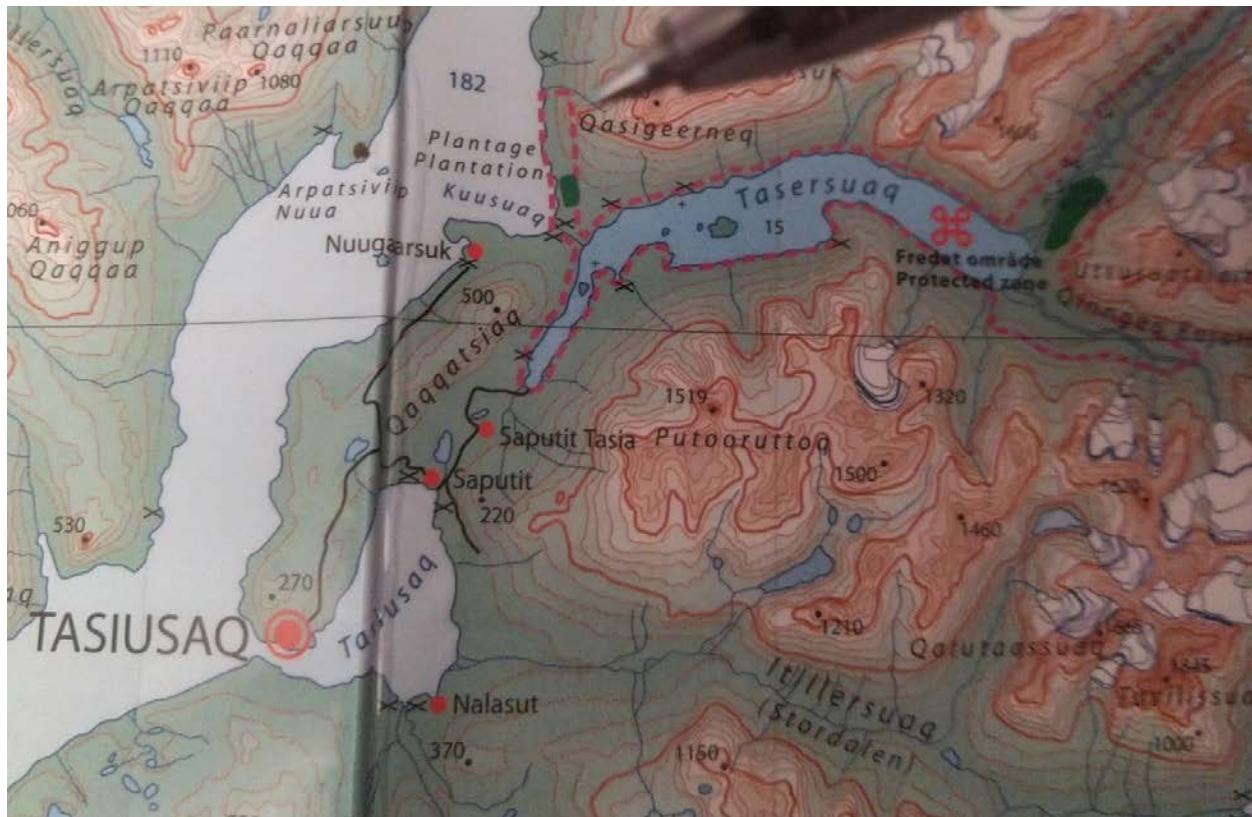
mysterious hole cut in Qannassiasat fence



evidence of sheep eating leaves from poplar, note the chewed-off top with fortunately some leaves below that we expect means this individual will continue growing and highlighting the desire to have sheep out of the plantation

Activities to consider for 2022

1. For 2022, our plan is initiating tree growth using our new Narsaq greenhouse
 - a. selecting 'mother trees' for use in the development of shelterbelts for Greenlandic farms. 'mother trees' have a physical collection allowing future cuttings and seed to eventually be harvested.
1. by Feb 2022, having a Copenhagen University intern via this program
<https://skovskolen.ku.dk/english/intern/>
2. initiating an educational and outreach program in Narsaq.
2. collaborating with Michael Strassburger on film about Greenland Trees
 - a. ideas for characters
 - i. Greenlandic shamen
 1. Adam Lyberth guide for Albatros ca. 670 y.o.
 - a. has a lot of photography
 - b. since traveling through Kanger is a given, low cost to visit trees planted in Kangerlussuaq
 - ii. a naturalist
 - iii. GT folk
 3. transplanting from Niels' garden in Narsaq to sites around Narsaq. He has many trees that need a home.
 4. a new plantation
 - a. multiple plantations/groves as day trips from the Qanassisat cabin 'basecamp' which has no direct cost for overnight stays
 - b. obtain area allotments pre-approval
 5. visiting Kussuaq in Tassermiut Fjord (60°16'N, 44°43'W) in the vicinity of Nanortalik.
 6. Assistance to [Kim Godtfredsen](#) for planting trees in Kapisillit, east of Nuuk.
 7. repeat photos using old material
 8. Planting trees away from sheep
 9. Reach out to Henrik M at <http://dendron.dk/>.
 10. Reach out to Uperniviarsuk/the agriculture advisory service to get advice for the Greenhouse and seeds.



Kuusuaq, Tasermiut Fjord ($60^{\circ}16'N + 44^{\circ}43'W$, in the vicinity of Nanortalik).

Procurement items for 2022 fieldwork

1. Greenhouse
 - a. Seeds from Iceland
 - b. rooting agent
 - c. Planting trays
 - d. Planting medium
 - e. Thermal regulation
 - i. Thermostat with network connection
 - ii. Window controller
 - iii. Window hardware
 - f. camera on hotel wifi used for remote monitoring/timelapse
2. Cuttings equipment
 - a. Tubbs sufficient for 5000 cuttings
 - b. Knives
 - c. Gloves
3. Qanassiasat
 - a. plant markers
 - b. fire extinguisher
 - c. power
 - i. a 110 VAC Honda generator was left at the cabin
 - ii. solar panels + batteries

- iii. micro-hydropower plant
- d. fly swatter
- e. non-serrated large kitchen knife
- f. axe handle replacement
 - i. axe head is shipped back to DK
- g. chainsaw for removal of a few dead trees
- h. 'skirt' of cabin
 - i. tar paper
 - ii. plywood for
 - iii. black paint to finish upper trip on cabin and paint plywood for lower 'skirt' of cabin... sufficient painting supplies are left at the cabin in one of the bedroom
 - 1. two small buckets, 3 liters each, se-rn. 2860 9726868
Woodtex Dæææended Base 4 43795 - 2,8 ltr. Sort S9000-N
 - 2. from Claus John Lønstrup at Starq in Qaqortoq
- i. Planks for deck maintenance/replacement