

Faculty of Pharmaceutical Sciences



Narssarssuaq **Airport** JULIANENAN MEGE

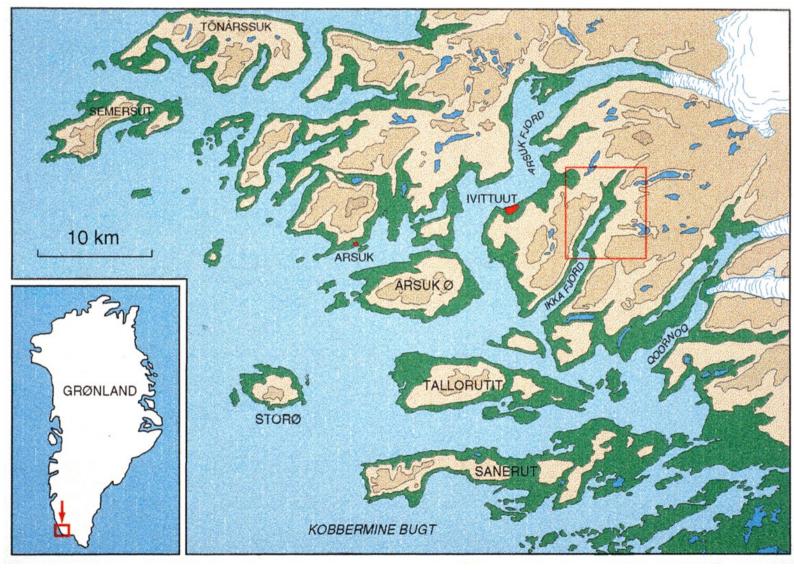
Ikka Fiord is close to Arsuk Fiord with Ivigtut and the Navy Base Grønnedal

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Málforhold 1:200,000 (A4)

April 25, 18 Dias 2

IKKA FJORD 61°10′N 50°W







Quasiarsuk, the Norsemen's Brattahlid



Outbreak of Eurois larvae in 1959





Copy of Tjodhilde's church in Brattahlid, build in 2000, for the 1000-year Jubilee



Outbreak of Eurois in 1959



IKKA Fiord seen from helicopter July 1st 2009



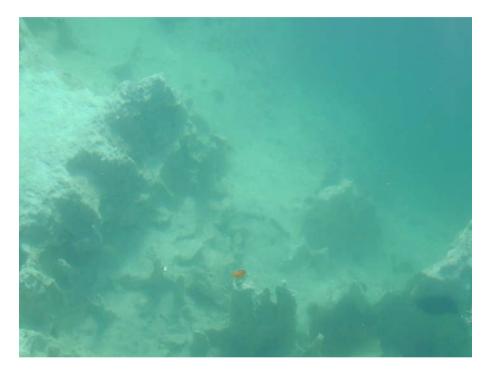


The morning we all talk about!





Ikka-columns





at low tide





View of Ikka Fiord from the far end



April 25, 18 Dias 9

Norsemen ruin on North side of Ikka Fiord







April 25, 18 Dias 10

Vegetation analyses along streams in Ikka Fiord

All plant species along the East side and the West side, are registered in 5 plots of 0.1 m² (in total 2 x 0.5 m²⁾



Spring locality M, 8.juli 2009 kl.14

Frequency analysis in vegetation at North side of the fiord





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Data loggers in springs show 3° C all year round







Most characteristic plants Saxifraga aizoides and Platanthera hyperborea



Defoliated willows supposed to be due to Eurois occulta

Probably also fatal to the Norsemen due to lack of fodder









Completely defoliated Salix glauca



A single shoot shows how it could have been, were it not for the larvae





Musk oxen were often seen in the willows, and suddenly they were right outside the cabin





Caterpillar of Eurois occulta



When in abundance they are repellent and disgusting, however, they may be eaten by birds



Eurois occulta

Females





Male and pupa





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On Disko 2012 we saw what could be the explanation

Larvae of Eurois occulta are very gready They prefer willow leaves and buds





Feeding on Salix glauca



In 2013 we saw larvae again in vast numbers outside Knud Rasmussen House at Ilulissat







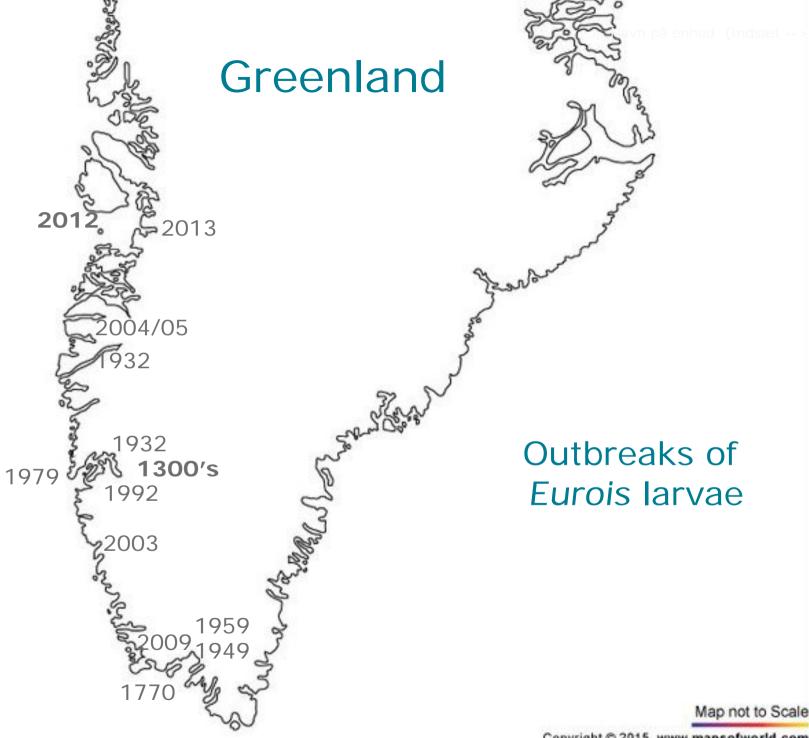
They have been brought North with the warmer climate!





Mass occurrence of Eurois Iarvae in Greenland

| År | Sted | Virkning | Kilde |
|-------|---------------------------------|---|---------------------------------|
| 1300+ | Godthåbsfiord (Ujaragsuit) | Plant growth failure. Norsemen disappear Iversen 1934 | |
| 1770 | Lichtenau Fiord | All grass destroyed | Vibe 1949 |
| 1932 | Godthåbsfjord (Ameralik) | Springtime lack of animal fodder | Iversen 1934 |
| 1932 | Kangerlussuaq | Difficulty getting ashore from kayak | Iversen 1934 |
| 1949 | Between Lichtenau and Igaliko | Birch trees with destroyed bud | Vibe 1949 |
| 1959 | Qasiarssuq | Emerging grass and herbs totally eaten | Atuagagdliutit/Grønlandsposten |
| 1979 | Eqalungmiut Nunaat | Feeding on Salix/Calamagrostis | Fox et al.1987 (Lapl. longspur) |
| 1992 | Between Ameralik and Buksefiord | Willow defoliated early in the season | Jette Arneborg pers. medd. |
| 2003 | Fiskenæs | Enormous attack of Eurois larvae | Jens Bøcher pers. medd. |
| 2004 | Kangerlussuaq - Sisimiut | Immense attack to experimental plots | Pedersen & Post 2008 |
| 2005 | Kangerlussuaq - Sisimiut | Even more heavy attack to plots | Post & Pedersen 2008 |
| 2009 | Ikka Fiord | Willows defoliated on Southern slopes | Mølgaard & Christensen obs |
| 2010 | Godthåbsfiord | Larvae benefit from good weather | http://www.natur.gl/ |
| 2011 | Kobbefiord valley | Dwarf shrubs defoliated | Lund et al. 2017 |
| 2012 | Fortunebay, W of Qeqertarssuaq | Larvae on leaves and flowers of S.glauca | Mølgaard & Christensen obs |
| 2013 | Ilulissat, Knud Rasmussen House | Larvae in digustingly great numbers | Mølgaard & Christensen obs |









Greetings to all ITEX'ers fromMukta and Pat Webber



Salix arctica, female plant





Salix arctica, male plant



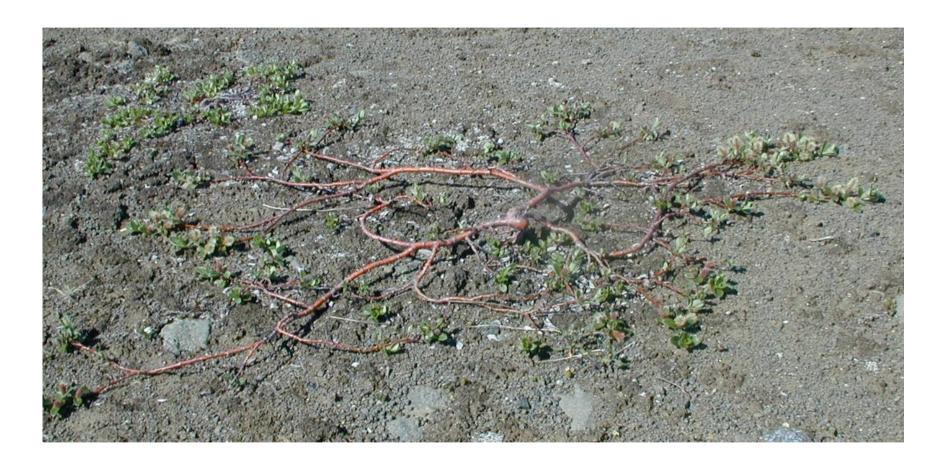


Arctic Willow, Salix arctica, male plant



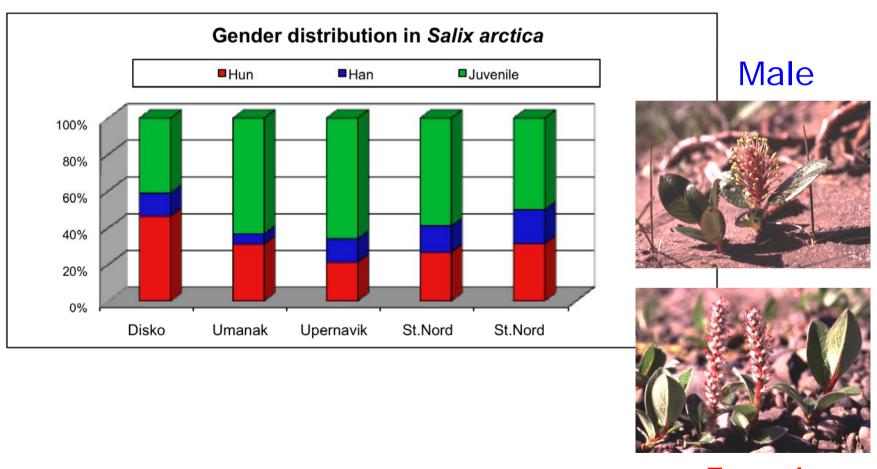


Salix arctica, large male plant

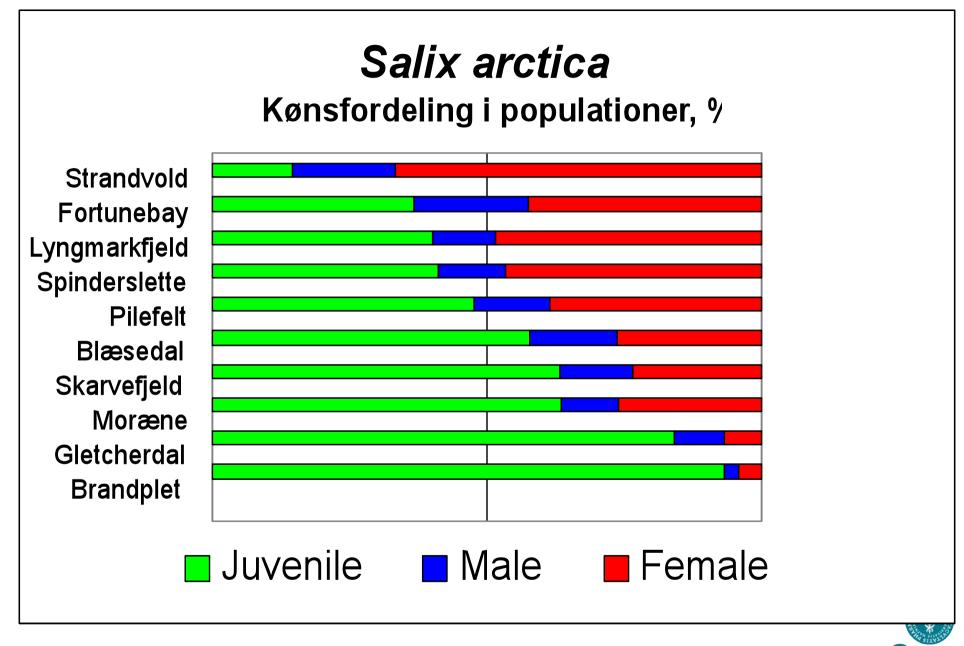




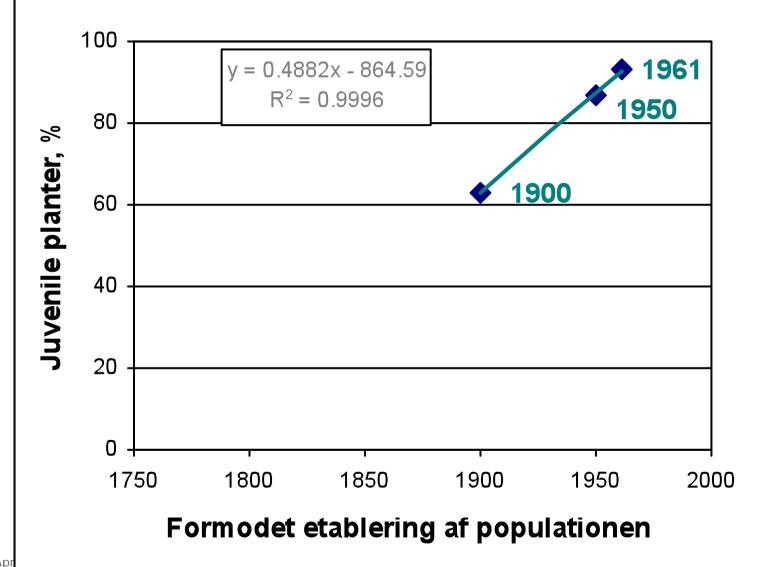
Female biased distribution in Greenland







Populationens alder



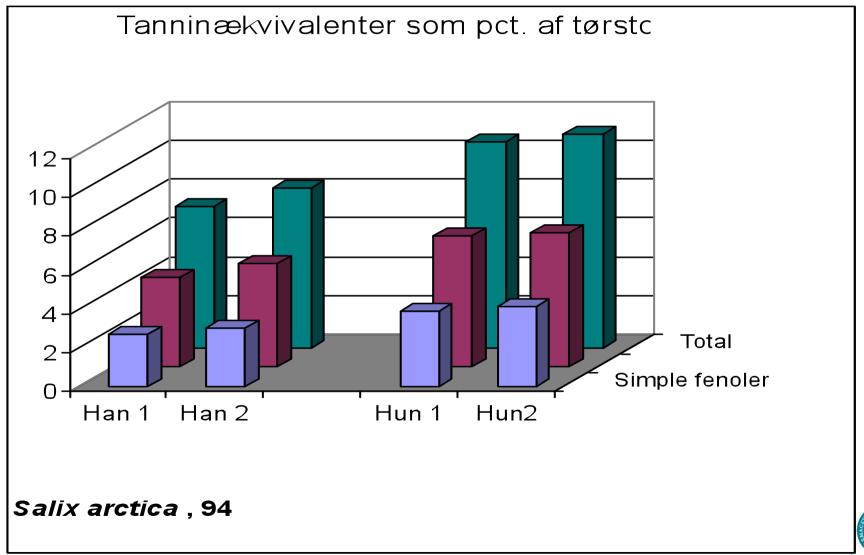


Dias 31

Hunplante på hævet strandvold



Gender related tannin content in willow leaves





Moskusokser på vandring om formiddagen den 10. juli 2009





-og de holdt Store Badedag





Moskusokser bader da!



cannabinoider

