



GEOLOGICAL & NATURAL HISTORY SURVEY.
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My dear Father,

All sorts of questions occur in connection with the Arctic geology. Heer seems satisfied that the Arctic Archæozoic plant & coal formation is the same with his Arsa of Bear Island, & gives the enclosed list of species. What should it be called by American analogues, Devonian or Carb.?

He also gives a list of so called Miocene fossil woods from strata within Colorado. This is enclosed, as all are new species it was too difficult to say anything about them, but you might be able to form an opinion as to Miocene vs. Saramie reference.

Sortly, in vol III Heer gives a list of 30 species from Grinnell Land (Nares Expedition) these are also called 'Miocene'. The question is whether they be Saramie, & may his Miocene of Greenland be Saramie. If you have not the vol. referred to I will copy out the list of plants from Prof. Geyr



Fossils from Urua Stage, Arctic Islands.

H. Fos. Arct. Vol. I. p 47

Schizopteris melvilleensis

Cyclopteris

Pecopteris

Lepidodendron Veltkeianum

" *Spore*

Lepidophyllum obtusum

Cardiocarpus circularis

Naegleria foliosa

" *McClintockii*

" *Franklini*

Thuja Parryana

Pinus Bathursti.

Fossils from 'Miocene' of Prince Peter's Sound
& Banks Land.

Pinus MacClarii

" *Armitagei*

Cupressinotylon pulchrum

" *polymatum*

" *dubium*

Betula MacClintockii

} all from
fossil wood

Plants from Grimell Land (near Repidition)
Land to the Miocene. 20 Species described in Vol. VI.



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*Geological & Natural History Survey
Office of the Survey
Ottawa*

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