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— 15 —

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## ADVERTISEMENT.

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This work is the fifteenth of a series of papers intended to illustrate the collections of Natural History and Ethnology belonging to the United States, and constituting the National Museum, of which the Smithsonian Institution was placed in charge by the act of Congress of August 10, 1846.

It has been prepared at the request of the Institution, and printed by authority of the honorable Secretary of the Interior.

SPENCER F. BAIRD,

*Secretary of the Smithsonian Institution.*

SMITHSONIAN INSTITUTION,

*Washington, April 15, 1879.*

CONTRIBUTIONS

TO THE

NATURAL HISTORY

OF

ARCTIC AMERICA,

MADE IN CONNECTION WITH

THE HOWGATE POLAR EXPEDITION, 1877-78,

BY

LUDWIG KUMLIEN,

NATURALIST OF THE EXPEDITION.



WASHINGTON:  
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1879.

# PLANTS.

LIST OF THE PLANTS COLLECTED AT POINTS IN CUMBERLAND SOUND BETWEEN THE SIXTY-SIXTH AND SIXTY-SEVENTH PARALLELS OF NORTH LATITUDE AND ON THE SOUTH SHORES OF DISKO ISLAND, GREENLAND.

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BY ASA GRAY.

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The Howgate Expedition arrived in Cumberland Sound about the middle of September, 1877; the ground was then covered with snow, but this melted on the southern slopes some days later, and exposed a few plants still in flower, *Campanula rotundifolia*, *Lychnis apectala*, *Stellaria longipes*, var. *Edwardsii*, &c.

In the succeeding summer the Florence left her winter-harbor early in July, and while there was yet considerable snow remaining in the valleys. At the time we left our winter-quarters there were but four or five plants in flower in the vicinity, such as *Taraxacum Dens-leonis*, *Cochlearia officinalis*, *Saxifraga stellata*, and *Saxifraga rivularis*, var. *hyperborea*.

*Pyrola rotundifolia*, var. *pumila*, showed buds on a southern slope by the last day of May, but the same plants were not in flower by July 7. The season appeared to be unusually backward, frequent snow-storms prevailing till the latter days of June.

At America Harbor, on the east side, and nearly opposite Annanac-took, the winter-harbor, plants were in much richer profusion and apparently more than a week earlier than at the former place.

As large a number of plants were collected here as our short stay would admit of. A few days were also spent at the Kikkerton Islands, and such of the islands as were accessible to us faithfully hunted over, but many species were not yet in flower.

On the south shores of Disko Island, Greenland, we collected for a few days in August, and here the bulk of our plant-collection was made.

Many species were found here that we had collected in Cumberland, but they were strikingly more luxuriant and generally quite abundant. In the following list the species collected at points in Cumberland Sound will be indicated by the letter C; those from Disko Island, Greenland, by the letter G.—L. K.

- Thalictrum alpinum*, L. G.  
*Ranunculus nivalis*, L. C.  
*Ranunculus affinis*, R. Br. C.  
*Ranunculus*, not identified.  
*Papaver nudicaule*, L. C and G.  
*Arabis alpina*, L. G and C.  
*Cochlearia officinalis*, L. C.  
*Cochlearia arctica*, Schl. G.  
*Draba stellata*, Jacq. C.  
*Draba stellata*, var. *nivalis*, Regl. C.  
*Draba crassifolia*, Grah. G.  
*Draba hirta*, L. C.  
*Silene acaulis*, L. C and G.  
*Iychnis alpina*, L. G.  
*Iychnis apetala*, L. C.  
*Iychnis affinis*, Wahl. C and G.  
*Cerastium alpinum*, L. C and G.  
*Stellaria longipes*, Goldie.  
*Stellaria longipes*, var. *Edwardsii*. C and G.  
*Arenaria peplodes*, L. G.  
*Dryas octopetala*, L.  
*Dryas octopetala*, var. *integrifolia*, Ch. & Sch. C and G.  
*Potentilla nivea*, L. C.  
*Potentilla maculata*, Pour. C.  
*Sibbaldia procumbens*, L. G.  
*Alchemilla vulgaris*, L. G.  
*Saxifraga rivularis*, L. C.  
*Saxifraga rivularis*, var. *hyperborea*, Hook. C.  
*Saxifraga cernua*, L. G.  
*Saxifraga stellaris*, L. C.  
*Saxifraga nivalis*, L. C and G.  
*Saxifraga cæspitosa*, L. C and G.  
*Saxifraga tricuspidata*, Retz. C and G.  
*Saxifraga oppositifolia*, L. C.  
*Epilobium latifolium*, L. C and G.  
*Archangelica officinalis*, L. G.  
*Erigeron uniflorum*, L. G.  
*Gnaphalium Norvegicum*, Gumm. G.  
*Antennaria alpina*, L. G and C.

- Arnica alpina*, Murr. G.  
*Taraxacum Dens-leonis*, Desf. G and C.  
*Taraxacum palustre*, DC. C.  
*Campanula rotundifolia*, L. C and G.  
*Campanula uniflora*, L. G.  
*Vaccinium uliginosum*, L. C and G. (var.)  
*Aretostaphylos alpina*, L. C and G.  
*Cassiope hypnoides*, Don. C and G.  
*Cassiope tetragona*, Don. C and G.  
*Bryanthus taxifolius*, Gray. G.  
*Rhododendron Lapponicum*, Wahl. C and G.  
*Ledum palustre*, L. C and G.  
*Loiseleuria proeumbens*, Desv. C and G.  
*Pyrola rotundifolia*, L.  
*Pyrola rotundifolia*, var. *pumila*, Hook. C and G.  
*Diapensia Lapponica*, L. C and G.  
*Armeria vulgaris*, L. C and G.  
*Veronica alpina*, L. G.  
*Euphrasia officinalis*, L. G.  
*Bartsia alpina*, L. G.  
*Pedicularis Langsdorffii*, Fisch. G.  
*Pedicularis Langsdorffii*, var. *lanata*.  
*Pedicularis hirsuta*, L. C and G.  
*Pedicularis flammea*, L. G.  
*Pedicularis Lapponica*, L. G.  
*Mertensia maritima*, Don. G.  
*Oxyria digyna*, Campd. C and G.  
*Polygonum viviparum*, L. C and G.  
*Empetrum nigrum*, L. C.  
*Betula nana*, L. C and G.  
*Salix herbacea*, L. C and G.  
*Salix glauca*, L. C.  
*Salix arctica*, R. Br. ? C.  
*Habenaria albida*, R. Br. G.  
*Habenaria hyperborea*, R. Br. G. New to Greenland!  
*Tofieldia borealis*, Wahl. C and G.  
*Luzula spadiacea*, DC. C.  
*Luzula spadiacea*, var. *parviflora*, Mey. G.  
*Luzula arcuata*, Wahl. C.

- Luzula arcuata*, var. *hyperborea*. C.  
*Eriophorum Scheuchzeri*, Hoppe. C.  
*Eriophorum vaginatum*, L. C.  
*Eriophorum polystachyum*, L. C.  
*Carex lagopina*, Wahl. G.  
*Carex rigida*, Good. G.  
*Carex rariflora*, Wahl. G.  
*Hierochloa alpina*, L. C.  
*Alopecurus alpinus*, L. G.  
*Poa alpina*, L. C and G.  
*Festuca ovina*, L. C.  
*Festuca ovina*, var. *breviflora*. G.  
*Glyceria angustata*, R. Br. G.  
*Woodsia hyperborea*, R. Br. G.  
*Cystopteris fragilis*, Bernh. G.  
*Aspidium Lonchitis*, Sw. G.  
*Polypodium Dryopteris*, L. G.  
*Equisetum arvense*, L. G and C.  
*Lycopodium Selago*, L. G and C.