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LIST OF PLANTS COLLECTED BY MR. J. B. TYRRELL IN THE KLONDIKE REGION IN 1899.

By JOHN MACOUN, M.A. F.L.S., F.R.S.C.

Numerous small collections of plants have, during the past ten or twelve years, been brought from the Yukon District to the Herbarium of the Geological Survey by Government officials and others. These specimens are of great value as showing the distribution of plants known to occur in the wooded regions to the east, and our knowledge of the flora of the Klondike district is almost as complete as that of other parts of Canada. The collection made by Mr. Tyrrell during the spring and summer of 1899 is one of the most complete we have received, and a mere glance at the following list will show that the spring and summer climate in the vicinity of Dawson is as mild as that many degrees further south in Eastern Canada; indeed the great majority of the plants found in meadows, bogs, woods and river-bottoms grow within one hundred miles of Ottawa.

Mr. Tyrrell says of these plants :

"They were all collected in the bottoms, or at no great height up the sides of the valleys, at approximate elevations of between 1,000 and 1,500 feet above sea-level. The principal locality visited on the Yukon River was a gravel hillside, sloping towards the south, within a short distance of the town of Dawson. Another locality was a rocky hill, also facing the south, a couple of miles further up the valley. The localities on Bonanza and Hunker creeks were either on the swampy flats or on the swampy hillsides. Chandindu River was visited once, on July 13th, and the plants, as labelled, were collected either on the wide swampy flat in the bottom of the valley, on a grassy hillside on the north side of the valley, or on a sandy bar at the mouth of the river where it joins the Yukon River. Forty-mile River was visited for a few days between June 29th and August 8th, and the plants were collected close to the banks of the river as we ascended and descended in a canoe."

ANEMONE PATENS, Linn., var. *NUTTALLIANA*, Gray.

Yukon River, in flower May 1st ; Klondike River, April 30th.

ANEMONE PARVIFLORA, Michx.

Hunker Creek, May 30th.

ANEMONE RICHARDSONII, Hook.

Chandindu River, June 13th.

RANUNCULUS MULTIFIDUS, Pursh, var. (?)

Chandindu River.

RANUNCULUS LAPPONICUS, Linn.

Chandindu River, June 13th.

AQUILEGIA BREVISTYLA, Hook.

Chandindu River.

DELPHINIUM SCOPULORUM, Gray.

Chandindu River.

ACONITUM DELPHINIFOLIUM, DC.

40-mile Creek ; Chandindu River.

PAPAVER NUDICAULE, Linn.

40-mile Creek. This species is out of range and better specimens may indicate a new species.

CORYDALIS GLAUCA, Pursh.

Chandindu River.

CORYDALIS AUREA, Willd.

Bank of Klondike behind Dawson, June 11th.

NASTURTIUM PALUSTRE, DC. var. *HISPIDUM*, Fisch. & Mey.

Chandindu River.

ARABIS HOLBELLII, Hornem.

Bank of Klondike behind Dawson, June 11th.

ARABIS LYRATA, var. *OCCIDENTALIS*, Wat.

Chandindu River.

BARBAREA VULGARIS, var. *ARCUATA*, Hook.

Chandindu River.

ERYSIMUM CHEIRANTHOIDES, Linn.

Klondike River, June 30th ; Chandindu River.

ERYSIMUM PARVIFLORUM, Nutt.

Bank of Klondike River behind Dawson, June 13th.

ERYSIMUM, Sp.

A specimen in flower was gathered on June 13th on the Chandindu River. The flowers are light yellow and too large for *E. parviflorum* and the young pods are hardly that species. A specimen in flower which seems to be related to *Erysimum* is indeterminable. Chandindu River.

BRASSICA SINAPISTRUM, Boiss.

Introduced. Chandindu River.

DRABA INCANA, DC.

Klondike River, May 16th.

LYCHNIS TRIFLORA, var. *DAWSONI*, Robinson.

Chandindu River.

CERASTIUM MAXIMUM, Linn.

This species is common in Siberia, and is reported from Alaska. Chandindu River. Our first record.

ARENARIA CAPILLARIS, var. *FORMOSA*, Fisch.

Chandindu River.

ARENARIA LATERIFLORA, Linn.

Bank of Klondike River behind Dawson, June 11th.

ARENARIA PHYSODES, DC.

40-mile Creek.

STELLARIA BOREALIS, Bigel.

Chandindu River.

LUPINUS ARCTICUS, Watson.

Bank of Yukon River opposite Dawson, May 23rd.

ASTRAGALUS ALPINUS, Linn.

Bank of Klondike behind Dawson, June 11th; also Chandindu River.

ASTRAGALUS FRIGIDUS, var. *LITTORALIS*, Watson.

Chandindu River.

OXYTROPIS LAMBERTI, Pursh.

Chandindu River.

HEDYSIARUM BOREALE, Nutt.

Chandindu River.

SPIRÆA BETULIFOLIA, Pallas.

Chandindu River.

- RUBUS ARCTICUS*, var. *GRANDIFLORUS*, Ledeb.
Chandindu River, June 13th.
- POTENTILLA PENNSYLVANICA*, var. *STRIGOSA*, Pursh. (?)
Chandindu River.
- POTÉNTILLA NIVEA*, Linn.
Dawson, May 14th.
- POTENTILLA FRUTICOSA*, Linn.
Chandindu River.
- POTENTILLA ANSERINA*, Linn.
Chandindu River.
- POTERIUM SITCHENSE*, Watson.
40-mile Creek.
- ROSA ACICULARIS*, Link.
Chandindu River.
- SAXIFRAGA REFLEXA*, Hook.
Yukon River, May 1st. Identification doubtful. Specimens too young.
- SAXIFRAGA HETERANTHA*, Hook.
40-mile Creek.
- SAXIFRAGA TRICUSPIDATA*, Retz.
Bank of Klondike behind Dawson, June 11th.
- CHRYSOSPLENIUM ALTERNIFOLIUM*, Linn.
40-mile Creek.
- PARNASSIA PALUSTRIS*, Linn.
40-mile Creek.
- RIBES RUBRUM*, Linn.
Hunker Creek, May 30th.
- RIBES HUDSONIANUM*, Richards.
Chandindu River.
- EPILOBIUM ANGUSTIFOLIUM*, Linn.
40-mile Creek, and Chandindu River.
- SILENUM DAWSONI*, Coult. & Rose.
Chandindu River.
- CORNUS CANADENSIS*, Linn.
Chandindu River.

LINNÆA BOREALIS, Gronov.

Chandindu River.

VIBURNUM PARVIFLORUM, Pylaie.

Bank of Klondike behind Dawson, June 11th.

GALIUM TRIFIDUM, Linn.

Chandindu River.

GALIUM BOREALE, Linn.

Chandindu River.

VALERIANA SYLVATICA, Watson.

40-mile Creek ; Chandindu River.

SOLIDAGO MULTIRADIATA, Ait.

Chandindu River.

SOLIDAGO MULTIRADIATA, var. SCOPULORUM, Gray

40-mile Creek.

ASTER SIBIRICUS, Fisch.

40-mile Creek ; Chandindu River.

ERIGERON ACRIS, Linn.

40 mile Creek.

ACHILLEA MILLEFOLIUM, Linn.

Chandindu River.

ARTEMISIA VULGARIS, Linn., var. TILESII, Ledeb.

40-mile Creek ; also Chandindu River.

PETASITES SAGITTATA, Gray.

Bank of Klondike opposite Dawson, May 23rd.

ARNICA ALPINA, Murr.

Bank of Klondike behind Dawson, June 11 ; also Chandindu River.

CAMPANULA UNIFLORA, Linn.

40-mile Creek.

CAMPANULA ROTUNDIFOLIA, var. ALASKANA, Gray.

Chandindu River ; also 40-mile Creek.

VACCINIUM CAESPITOSUM, Michx.

Chandindu River.

VACCINIUM VITIS-IDÆA, Linn.

Chandindu River.

ARCTOSTAPHYLOS ALPINA, Spreng.

Chandindu River.

ARCTOSTAPHYLOS UVA-URSI, Spreng.

Chandindu River.

CASSANDRA CALYCVLATA, Don.

Hunker Creek, May 30th.

ANDROMEDA POLIFOLIA, Linn.

Chandindu River, June 13th.

LEDUM PALUSTRE, Linn.

Chandindu River, June 13th.

LEDUM LATIFOLIUM, Ait.

Chandindu River.

PYROLA ROTUNDIFOLIA, Linn.

Klondike Valley, June 2nd; also Chandindu River, June 13th.

MONESES UNIFLORA, Gray.

40-mile Creek.

ALLOTROPA VIRGATA, Torr & Gr.

Chandindu River.

ANDROSACE SEPTENTRIONALIS, Linn.

Chandindu River; also Dawson, May 14th.

GENTIANA AMARELLA, var. ACUTA, Hook.

Chandindu River.

POLEMONIUM HUMILE, var. PULCHELLUM, Gray.

Klondike River, May 14th.

MERTENSIA PANICULATA, Don.

Bonanza Creek, May 18th; bank of Klondike behind Dawson,
June 11th.

PENTSTEMON CRISTATUS, Nutt.

Chandindu River. This may be a new species.

CASTILLEIA PALLIDA, Kunth.

40-mile Creek.

PEDICULARIS EUPHRASIOIDES, Stephan.

Chandindu River.

DRACOCEPHALUM PARVIFLORUM, Nutt.

Chandindu River.

CHENOPODIUM CAPITATUM, Benth. & Hook.

Chandindu River.

- POLYGONUM ALPINUM, Linn.
Chandindu River.
- SHEPHERDIA CANADENSIS, Nutt.
Klondike River, May 14th.
- COMANDRA LIVIDA, Richardson.
Chandindu River.
- BETULA PAPYRIFERA, Michx.
Yukon River at Dawson, May 1st.
- BETULA GLANDULOSA, Michx.
Chandindu River.
- ALNUS INCANA, Willd (?)
Yukon River, May 1st. Too young.
- SALIX ARCTICA, R. Br.
Chandindu River.
- SALIX SCOULERIANA, Bebb.
Yukon River, May 1st.
- SALIX RETICULATA, Linn.
Chandindu River.
- SALIX ——— (?)
Bank of Klondike behind Dawson, May 21st. Too young.
- SALIX ——— (?)
Hunker Creek, May 30th.
- POPULUS TREMULOIDES, Michx.
Yukon River, May 1st, and Klondike River, May 16th.
- EMPETRUM NIGRUM, Linn.
Bonanza Creek, May 18th.
- JUNIPERUS COMMUNIS, Linn.
Bank of Klondike behind Dawson, May 21st.
- PINUS MURRAYANA, Balfour.
Yukon River, near mouth of Little Salmon River.
- PICEA NIGRA, Link.
At Dawson.
- PICEA ALBA, (?)
This is one of the forms that do duty for the White Spruce in western America. Yukon River.

CORALLORHIZA INNATA, R. Br.

Chandindu River, June 13th.

CALYPSO BOREALIS, Salisb.

Chandindu River, June 13th.

ALLIUM SCHOENOPRASUM, Linn.

40-mile Creek.

ZYGADENUS ELEGANS, Pursh.

Klondike and Hunker Creek, June 30th.

ERIOPHORUM CAPITATUM, Host.

Bonanza Creek, April 25th; and Hunker Creek, May 30th.

CAREX PYRENAICA, Wahl.

Bank of Klondike behind Dawson, May 21st.

CAREX INVISA, Bailey.

Bank of Yukon River opposite Dawson, May 28th; Hunker Creek, May 30th.

CAREX ——— (?)

Chandindu River. Too young.

CAREX CONCINNA, R. Br.

Chandindu River.

DEYEUXIA PURPURASCENS, Kunth.

Bank of Klondike River behind Dawson, June 11th.

POA PRATENSIS, Linn.

Chandindu River, June 13th.

EQUISETUM ARVENSE, Linn.

Bank of Yukon opposite Dawson, May 23rd.

PELLÆA GRACILIS, Hook.

40-mile Creek.

PHEGOPTERIS DRYOPTERIS, Fée.

40-mile Creek.

ASPIDIUM FRAGRANS, Swartz.

Yukon River, May 1st, also 40-mile Creek.

CYSTOPTERIS FRAGILIS, Bernh.

40-mile Creek; Chandindu River.

CYSTOPTERIS MONTANA, Bernh.

40-mile Creek.

WOODSIA GLABELLA, R. Br.

40-mile Creek.

- WOODSIA HYPERBOREA, R. Br.
40-mile Creek.
- LYCOPODIUM OBSCURUM, Linn.
Hunker Creek and all gold creeks.
- LYCOPODIUM ANNOTINUM, Linn, var. PUNGENS, Spreng.
Hunker Creek.
- LYCOPODIUM COMPLANATUM, Linn.
Trail along Hunker Creek.
- POLYTRICHUM JUNIPERINUM, Willd.
Bank of Yukon River opposite Dawson, May 23rd.
- MARCHANTIA POLYMORPHA, Dum.
Dawson.
- CETRARIA JUNIPERINA, var. PINASTRI, Ach.
Bonanza Creek.
- USNEA BARBATA, var. DASYPOGA, Fr.
Klondike bank behind Dawson.
- ALECTORIA JUBATA, var. IMPLEXA, Fr.
Bonanza Creek.
- PELTIGERA APHTHOSA, (L.) Hoffm.
Bonanza Creek.
- CLADONIA GRACILIS, var. HYBRIDA, Schaer.
Klondike bank behind Dawson.
- CLADONIA RANGIFERINA, var. SYLYATICA, Linn.
Bank of Yukon opposite Dawson.
- CLADONIA DEFORMIS, (L.) Hoffm.
Klondike Bank behind Dawson.
- CLADONIA CORNUCOPIOIDES, (L.) Fr.
Bank of Yukon River opposite Dawson.
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