

fruit is discovered—and male and female flowers have been detected on the Ohio specimens—it will prove to be *sui generis*. 2. *Fissidens minutulus*, Sull. 3. *Fissidens, exiguus*, Sull. 4. *Schistidium serratum*, Hook. et Wils. 5. *Marchantia disjuncta*, Sull. 6. *Aneura sessilis* (*Jungermannia sessilis*, Hook. et Wils.); and, 7. *Notothylas orbicularis* and *valvata*, Sull.

Catalogue of MR. GEYER'S Collection of Plants gathered in the UPPER MISSOURI, the OREGON TERRITORY, and the intervening portion of the ROCKY MOUNTAINS; by W. J. H.

Having at p. 524 of our last volume concluded the interesting narrative of Mr. Geyer's Journey in the above countries, it is now our agreeable task to publish a Catalogue of the plants forming the beautiful Herbarium made during that journey. The numbers, between parentheses, refer to those distributed with the collections.

RANUNCULACEÆ, *Juss.*

1. *Clematis Douglasii*, Hook. Fl. Bor. Am. 1, p. 1. Torr. et Gr. Am. 1, p. 8.

HAB. Borders of wooded mountains and prairies in the Spokane River, Cœur d'Aleine and Nez Percez country, Upper Oregon. Corolla reddish-violet. Many stems rise from one root. April, May. (n. 313.)—These are splendid specimens of a beautiful *Clematis*. A singular use is related by Mr. Geyer to be made of the root of this plant. "At a horse-racing of the Nez Percez Indians, I witnessed the application of the root. It happened that several horses were run nearly to death; so that they fell down during the heat of the day. As soon as such an accident happened, an Indian put a piece of this root (the outer coat scraped off) into the nostrils of the animal: the effect was surprising, the creature sprang up under convulsions,

was brought to the river and bathed, and I found several, which had been so treated, afterwards grazing with the herd, apparently without having sustained any injury."

2. *C. Virginiana*, L.

HAB. Poplar groves and thickets along the banks of rivulets, Upper Columbia River. Aug. (n. 617.)

3. *C. verticillaris*, DC.—*Atragene Americana*, Linn.

HAB. Only seen on the gentle elevations at the foot of the Cœur d'Aleine, about St. Joseph's, climbing over *Amelanchier Canadensis*. April. (n. 615.)

1. *Anemone nemorosa*, L.—var. *quinquefolia*, Torr. et Gr.—*A. quinquefolia*, L.

HAB. High alpine shady woods, Cœur d'Aleine mountains. (n. 606.)

1. *Ranunculus aquatilis*, L. γ . *cæspitosus*, DC.

HAB. (This in my collection is without No.)

2. *R. Flammula*, L.

HAB. High grassy plains of Cœur d'Aleine. (n. 306.)

3. *R. reptans*, L.—DC.—Torr. et Gr.—*R. Flammula*, var. *Hook. Fl. Bor. Am.*

HAB. Stony exsiccated water-courses in sunny places, Upper Oregon. July, Aug. (n. 213.)

4. *R. Cymbalaria*, Ph. Hook. Fl. Bor. Am. 1. p. 11. Torr. et Gr. 1. p. 17.

HAB. Swampy springy meadows, between the Upper Platte and Sweet Water River, with *R. sceleratus*. July. (n. 132.)

5. *R. brevicaulis*, Hook. Fl. Bor. Am. 1. p. 13. t. 7. A.—Torr. et Gr. 1. p. 18.

HAB. Plains of Upper Columbia River. Feb. Mar. (n. 459.)

6. *R. sceleratus*, L.

HAB. Swampy springy meadows, between Platte and Sweet Water rivers, growing with *R. Cymbalaria*. July. (n. 134.)

7. *R. acris*, L.; var. caule appresso-pubescente, foliis inferioribus minus divisibasi magis acutis, segmentis angustioribus.

HAB. In a fertile swampy meadow at the Upper Sweet Water River. Aug. (n. 110.)—This quite agrees with

R. acris in the root and flower and fruit; but the pubescence of the stem is rather dense and appressed, as well as on the leaves, and the root-leaves are not cordate at the base, but almost acute or wedge-shaped, and the segments fewer and narrower.

8. *R. hispidus*, Mx.

HAB. Abundant on the Gamass prairies of Cœur d'Aleine; not seen elsewhere. August. (n. 303.)

9. *R. Pennsylvanicus*, L.; var. *a.* minus hirsutus, foliis caulibusque gracilioribus.

HAB. Muddy margin of swamps, Upper Columbia, Fort Colville. August. (n. 580.) — var. The only *Ranunculus* seen in the valley of Upper Platte or Sweet Water River, 1839; at Devil's Lake, quite prostrate. (n. 579.)

10. *R. tenellus*, Nutt. Torr. et Gr. Am. 1. p. 28.

HAB. Swampy grounds about springs and rivulets, Koo-koskee Valley. (n. 400.)

1. *Myosurus minimus*, L.

HAB. Borders of pools in the Gamass prairies of the Cœur d'Aleine, with *Isoetes lacustris*. May. (n. 322.)

1. *Coptis occidentalis*, Nutt. Journ. Acad. Sc. Philad. 7. p. 9. t. 1. Torr. et Gr. Am. 1. p. 28.

HAB. Low, dry, shady pine woods, Upper Oregon. April. (n. 614.)—Of this very rare plant, only previously discovered by Mr. Wyeth (Nutt.) in the "Rocky Mountains," the specimens are in fruit, in which state it was unknown to Botanists. As Nuttall suspected, the scape lengthens in age, and its 3 fruit-bearing branches (themselves 2-3 inches long) are borne upon a stalk a span high. The plant is evergreen, Mr. Geyer observes, and, in spots where it grows, covers almost every square foot of the ground.

1. *Delphinium Menziesii*, DC. Hook. Fl. Bor. Am. 1. p. 25. Bot. Reg. t. 1192. *D. simplex*, Hook.

HAB. On the mountains close to the Upper Columbia; abundant in the Cœur d'Aleine country. Inner petals fuscous, bearded. May. (n. 600.)

2. *D. simplex*, Hook. Fl. Bor. Am. 1. p. 25; and var. *distichi-*

florum. *D. distichum*, Geyer, *Ms.*; glabrum, foliorum segmentis latioribus minus divaricatis.

HAB. Slopes of the undulating plains between Kansas and Platte Rivers, with *Oenothera serrulata*, (n. 163.)—*Var.* Grassy stony borders of rivulets, high plains of Spokane and Nez Percez, (n. 420.)—Our *D. simplex*, Messrs. Torrey and Grey unite with *D. Menziesii*; probably with justice, for it is as difficult to define the limits of the American species of this Genus as of the European ones. Again, it must be allowed that the *var.* here given of *D. simplex* has a very different appearance from that species, in its glabrous leaves, with broader, shorter, and blunter laciniaë, and (according to Geyer) regularly distichous flowers:—yet I fear there are no permanent distinguishing characters.

1. *Actæa rubra*, Big. Hook. Fl. Bor. Am. 1. p. 27.—Torr. et Gr. Am. 1. p. 35.

HAB. Deep shady defiles, borders of rivulets, Nez Percez Mountains, near the snow line. June. Berries deep-red, oval. (n. 520.)

1. *Thalictrum dioicum*, L.

HAB. Low alpine woods, Cœur d'Aleine country. May. (n. 622.)

BERBERIDÆ, Juss.

1. *Berberis Aquifolium*, Ph.

HAB. Stony banks; most abundant on precipices of Trap mountains of the Upper Platte to the Lower Columbia: very abundant. April, May. (n. 370.)

CRUCIFERÆ, Juss.

1. *Cheiranthus capitatus*, Dougl. in Hook. Fl. Bor. Am. 1. p. 38. Torr. et Gr. Am. 1. p. 71. *C. asper*, Cham. et Schlect. in *Linnaea*, 1. p. 14.

HAB. Sunny rocks, highlands of Nez Percez: rare. May. (n. 399.)

1. *Nasturtium Curvisiliqua*, Nutt. Torr. et Gr. Am. 1. p. 73.
Sisymbrium Curvisiliqua, Hook. Fl. Bor. Am. 1. p. 61.
 HAB. Stony borders of the Cœur d'Aleine Lake. June: rare.
 (n. 383.)
2. *Nasturtium palustre*, DC. Hook. Fl. Bor. Am. 1. p. 39.
 Torr. et Gr. Am. 1. p. 73. *Sisymbrium palustre*, L.
 HAB. Muddy banks of rivers, Upper Oregon. July. (n. 482.)
1. *Barbarea vulgaris*, Br.—*Erysimum Barbarea*, L.
 HAB. Stony borders of Lake Cœur d'Aleine and Koos-
 kooskee Rivers. April, May. (n. 604.)
1. *Turritis glabra*, Br.
 HAB. Thickets in sunny places, Kooskooskee valley: common.
 May, June. (n. 353.)
2. *T. patula*, Grah. in Edinb. Journ. 1829, p. 7. Hook. Fl.
 Bor. Am. 1. p. 40. Torr. et Gr. Am. 1. p. 79.
 HAB. Swampy rocks, Cœur d'Aleine Mountains: rare. May.
 (n. 646.)
3. *T. retrofracta*, Hook. Fl. Bor. Am. 1. p. 41. Torr. et Gr.
 Am. 1. p. 79.
 HAB. Alpine ravines, mountains of the Kooskooskee River,
 in thickets. (n. 564.)
1. *Arabis hirsuta*, L.
 HAB. Banks of Black's Fork of Upper Colorado, in dry de-
 nuded places, August, rare. (n. 364); and alpine ravines
 in the mountains of Kooskooskee River, (n. 565.)
1. *Cardamine hirsuta*, L.—*C. Pennsylvanica*, Muhl.
 HAB. Along rivulets; Valley of Flathead, or Upper Clarke's
 River. Sept. (n. 181.)
1. *Sisymbrium canescens*, Nutt. De Cand. Prodr. 1. p. 194.
 Hook. Fl. Bor. Am. 1. p. 62. Torr. et Gr. Am. 1. p. 92.
 (var. a.)
 HAB. Mountain rocks; alpine ravines, Kooskooskee. June.
 (n. 675.)
1. *Erysimum asperum*, DC. Hook. Fl. Bor. Am. 1. p. 64. t.
 22.—*E. lanceolatum*, Ph.
 HAB. In sunny places, in the high stony plains of Upper

Platte, scarcely seen at the Kooskooskee. Flowers with the fragrance of *Cheiranthus Cheiri*. June. (n. 153.)

1. *Pachypodium integrifolium*, Nutt. in Torr. et Gr. Am. 1. p. 96.

HAB. Sandy inundated places, valley of Upper Platte and Sweet Water River, growing with *Cleome integrifolia* and *Asclepias speciosa*. July. (n. 234.) This has been also found abundantly by Mr. Tolmie; and by Mr. Douglas during his last journey in the Oregon territory.

1. *Vesicaria alpina*, Nutt. in Torr. et Gr. Am. 1. p. 102.

HAB. Sunny calcareous cliffs; hills of Upper Platte, near the "Chimney Rock." June. (n. 60.) Mr. Nuttall seems to have discovered it on the same spot, and it appears to have been found in no other locality, and by no other Botanist. A beautiful and very distinct species.

2. *V. Ludoviciana*, DC. Torr. et Gr. Am. 1. p. 101.—*Alysum Ludovicianum*, Nutt. *Gen. Am.* 2. p. 63. *Myagrammum argenteum*, Ph.

HAB. Gravelly calcareous hills of Upper Platte, towards the Black Hills:—partly prostrate. July. (n. 278.)

3. *V. Geyeri*, Hook. perennis, stellatim incana, radice fusiformi, caulibus e collo numerosis, foliis longioribus radicalibus suborbiculatis longe petiolatis, foliis caulinis lanceolatis sessilibus sparsis, siliculis late obcordatis bilobis compresso-inflatis stylum longitudine æquantibus. (TAB. V.)

HAB. Sunny sandy declivities on elevated volcanic places, Upper Spokane River. April. (n. 476.)

A new and very remarkable species, with much the habit of *V. didymocarpa*, especially in the mode of growth and in the radical leaves; but the fruit is totally different, though somewhat membranaceous and inflated, and two-lobed; it is broadly obcordate, densely stellate, pubescent, two-lobed, compressed, of so membranous a texture that the pericarp shrinks or falls in between the four seeds (two in each cell), rendering the surface very unequal. The style is as long as the silicle.—(TAB. V. *Fig.* 1. Portion of a flower; *f.* 2. Silicle; *f.* 3. Seed.)

1. *Draba glacialis* ? Adams.

HAB. On an isolated calcareous cliff in the Black Hills on the Horse River. July. (n. 267.)—I am rather doubtful about this species, my specimens possessing neither flower nor perfect silicules; but, judging from the nature of the leaves and the pubescence, I think it is that species.

2. *Draba lutea*, Gilib.— β . *longipes*, Hook. *Flor. Bor. Am.* 1. p. 55. *Torr. et Gr. Am.* 1. p. 107.

HAB. Moist borders of hills, Cœur d'Aleine valley, and on the sandy banks of Columbia river, at Fort Colville. March—May. (n. 626.)

1. *Platyspermum scapigerum*, Hook. *Fl. Bor. Am.* 1. p. 68. t. 18. B. *Torr. et Gr. Am.* 1. p. 112.

HAB. Wet rocks and water-courses in the plains, Upper Oregon, Cœur d'Aleine and Chuelpee country; forming dense carpets, rarely solitary, on rocks. Corolla white; silicule pale green with purple dots. (n. 597).—There are very beautiful specimens in all stages, from the flower-bud, to the large ripened fruit, which, when fully formed, is essentially orbicular, and as large as a silver penny.

1. *Thlaspi cochleariforme*, DC. Hook. *Fl. Bor. Am.* 1. p. 58. *Nutt. Journ. Acad. Philad.* 7. p. 13. *Torr. et Gr. Am.* 1. p. 114.

HAB. On the high, cold, swampy prairies of the Cœur d'Aleine, surrounded by high mountains. Somewhat stoloniferous. Leaves purplish. (n. 305).

1. *Lepidium Virginicum*, L.

HAB. Indian camps, Kooskooskee river valley, growing with *Erodium Cicutarium*. June. (n. 389)

2. *L. integrifolium*, Nutt. in *Torr. et Gr. Am.* 1. p. 176.

HAB. Saline clayey denuded places, about the sources of Muddy river, and along the valley of Bear River. July, August. (n. 81).—Exactly agreeing with Mr. Nuttall's original specimens from the western side of the Rocky Mountains about the borders of the Oregon.

1. *Thysanocarpus curvipes*, Hook. *Fl. Bor. Am.* 1. t. 18. A. —*Torr. et Gr.* 1. p. 118.

HAB. Stony moist sunny declivities, and slopes of the high plains towards Kooskooskee valley: rare. May. (n. 343).—Judging from an extensive suite of specimens gathered in California by Dr. Coulter and presented to me by Dr. Harvey, the silicules of the winged group of this genus are very variable, and the number of published species ought to be reduced.

2. *T. oblongifolius*, Nutt in Torr. et Gr. Am. 1, p. 118.

HAB. Stony ridges, valley of Cœur d'Aleine river: rare. April, n. 607.—A very distinct species from the preceding, the fruit being apterous; in that respect allied to *T. pusillus*, Hook. Ic. Plant. t. 43.

CAPPARIDÆ, Juss.

1. *Cleome integrifolia*, Torr. et Gr. Am. 1. p. 122. *Peritoma integrifolia*, Nutt. in Journ. Acad. Sc. Philad. 7. p. 14.

HAB. Moist sunny sandy places, river valley of the Platte, extending to the Upper Sweet Water River; whence its place is taken by *C. aurea*, Nutt. It was also detected at Upper Big Sioux River, Missouri. July. (n. '168).

POLYGALÆ, Juss.

1. *Polygala alba*, Nutt. Gen. Am. 2. p. 87. De Cand. Prodr. 1. p. 330. Torr. et Gr. 1. p. 131.

HAB. Gravelly hills, Upper Platte, growing with *Mammillaria simplex* and *Evolvulus argenteus*: the specific name is not appropriate, for the flowers vary to deep reddish violet and purplish. June, July. (n. 276).—It seems to be the same as *P. Beyrichii* of Torr. et Gr. 1. p. 120, and Messrs. Torrey and Grey suspect it is not different from *P. Senega*, which is assuredly a very variable species.

VIOLARIÆ, DC.

1. *Viola striata*, Ait.

HAB. Moist fertile alpine woods; poplar groves in the valley

and mountains of Cœur d'Aleine River. April, May. (n. 602).

2. *V. Muhlenbergii*, Torr. Fl. 1. p. 256. Torr. et Gr. Am. 1. p. 140. *V. Muhlenbergiana*, *Ging. Hook. Fl. Bor. Am.* 1. p. 78.

HAB. Meadows and low woods in river valleys, Upper Oregon, always in bloom, even under the snow (n. 608 in flower), and among willow-thickets of springy swampy meadows between Upper Platte and Sweet River. (n. 41).

3. *V. Nuttallii*, Ph. Hook. Fl. Bor. Am. 1. p. 9. t. 26. Torr. and Gr. Am. v. 1. p. 141. *V. aurea*, *Nutt. in Hook. Herb.*

HAB. Open pine woods, borders of the high table-land, prairies of the Nez Percez, in fertile grassy plains: rare. June. (n. 407).

4. *V. rotundifolia*? Mx. Hook. Fl. Bor. Am. 1. p. 177. Torr. and Gr. Am. v. 1. p. 138. *V. orbiculata*, *Geyer, MSS.*

HAB. In deep dark shady and dry woods of *Thuja gigantea*, in the narrow defiles of the Cœur d'Aleine Mountains, with *Linnaea borealis* and *Calypso borealis*, and *Coptis occidentalis*: very rare. (n. 295).—I am by no means sure of this species; the specimens exactly agree in the flowers and foliage with what I possess from Dr. Schweinitz as *V. rotundifolia*, Mx. It also resembles *V. blanda*, Nutt.; the flowers and leaves are large. If it proves distinct, Mr. Geyer's mst. name of *V. orbiculata* should be adopted.

DROSERACEÆ, DC.

1. *Parnassia Kotzebuei*, Cham. et Schlecht. Hook. Fl. Bor. Am. 1. p. 82. t. 28. Torr. and Gr. Am. v. 1. p. 149.

HAB. Shady wet places under willows, in fertile meadows and springy grounds: rare; between Platte and Sweet Water River. July. (n. 133).

HYPERICINEÆ, *Juss.*

1. *Hypericum Scouleri*, Hook. Fl. Bor. Am. 1. p. 111. Torr. and Gr. Am. 1. p. 160.—var. fol. angustioribus.
 HAB. Rocky places about springs and along borders of rivers, and in the open plains of Upper Oregon, growing with *Eriogonum umbellatum*; July. Sept. (n. 196); and very wet places, valley of Kooskooskee. June. (n. 501).

CARYOPHYLLEÆ, *Juss.*

1. *Arenaria congesta*, Nutt. in Torr. et Gr. Am. 1. p. 178.—and β . var. major.
 HAB. Gravelly banks of Horse River of the Upper Platte (n. 26); and var. major, stony Islands of Kooskooskee River: rare. July. (n. 466).—The var. major is twice or thrice the usual size of the plant, but does not appear otherwise different.
2. *A. Hookeri*, Nutt. in Torr. et Gr. Am. 1. p. 178.
 HAB. High stony plateaux of Upper Sweet Water River, with *Phlox* “*muscoides*.” July. (n. 143).
1. *Stellaria borealis*, Bigelow, Hook. Fl. Bor. Am. 1. p. 94. Torr. and Gr. Am. 1. p. 185. *Spergulastrum lanceolatum*, Mich. *Micropetalon lanceolatum*, Pers.—var. minor.
 HAB. Springs in the Spokane plains, September, (n. 532); and var. minor, springy places in the desert between Upper Platte and Sweet Water Rivers. July. (n. 36). What is here called var. minor of this most variable plant, has the leaves narrower than in a. and more obtuse, but except in size, is not otherwise different.
2. *S. nitida*, Hook. in App. Scoresby Greenl. p. 411. *S. Edwardsii*, Hook. Fl. Bor. Am. 1. p. 96. t. 31.
 HAB. Open stony slopes of mountains, Upper Oregon, Apr. May, very abundant. (n. 629).—This is the *S. nitida*, nob. in Scoresby; and is a slenderer plant than *S. Edwardsii*, with which I united it in the Flora Boreali-Americana;

while these two, again, Torrey and Gray have considered mere varieties of *S. longipes*, Goldie. It seems utterly impossible to define the limits of this group of *Stellaria*.

3. *S. longipes*, Goldie, in Hook. Fl. Bor. Am. 1 p. 95.—
c. Torr. and Gr. Am. 1. p. 185.

1. In Mr. Geyer's MS. catalogue is a "*Stellaria phlogioides*,"
Geyer, n. 144; which does not appear in my collection.

HAB. Borders of woods, gravelly prairies of the Cœur
d'Aleine, creeping in dry sand. May. (n. 324). Petals short,
sometimes wanting.

1. *Cerastium arvense*, L. (*C. Pennsylvanicum*, and *C. tenui-*
folium, and *C. elongatum*, *Ph.*, according to Torrey and
Grey).

HAB. Stony meadows of Kansas River, also found at the
Kooksoskee, May. (n. 284).

1. *Silene Drummondii*, Hook. Fl. Bor. Am. 1. p. 89. Torr. et
Gr. 1. p. 191.

HAB. Pine woods of Upper Columbia, growing with *Collo-*
mia elegans, and *Clarkia pulchella*, (n. 519, in flower);
and in meadows about springs, near Sweet Water River,
July. (n. 79).

2. *S. Antirrhina*, L.

HAB. Banks and sterile stony places; Kooksoskee River,
May. (n. 385).

3. *S. Menziesii*, Hook. Fl. Bor. Am. 1. p. 99. t. 30. Torr. et
Gr. Am. 1. p. 193.— β . Leaves narrower, less downy.

HAB. Burnt places in pine woods, Upper Columbia River.
July, (n. 550); and β . (in fruit), sandy moist pine woods
at Flathead River, also on the "Black Hills" near Fort
Laramie, Upper Platte. (n. 549).

LINEÆ, DC.

1. *Linum rigidum*, Ph. Hook. Fl. Bor. Am. 1. p. 105. Torr.
et Gr. 1. p. 204.

HAB. Generally seen on the high plains of the Platte River,

below the junction of the Forks, growing with *Lupinus pusillus*; corolla ochreous yellow. (n. 169).—I cannot distinguish this from *L. rigidum*.

GERANIACEÆ, DC.

1. *Erodium cicutarium*, L'Hérit.

HAB. In the range of the Nez Perce Indians. (n. 670).

1. *Geranium maculatum*, L. Hook. Fl. Bor. Am. p. 115.
Torr. et Gr. 1. p. 206.

HAB. Dry stony thickets and ravines, common upon Upper Missouri and Oregon territories. Corolla white to crimson; 2 feet high, bushy. (n. 402).

TEREBINTHACEÆ, DC.

1. *Rhus Toxicodendron*, L.

HAB. Shady rocky narrow woods and groves of *Rhus glabrum*, along the banks of the Kookskskee river. Never rooting. (n. 560).

MALVACEÆ, Juss.

1. *Malva rivularis*, Dougl. in Hook. Fl. Bor. Am. 1. p. 107.
Torr. et Gr. Am. 1. p. 226.

HAB. Thickets of Upper Columbia, and on Kookskskee; 3 to 10 feet high: very rare. June, July. (n. 410).

2. *M. Papaver*, Cav. Torr. et Gr. Am. 1. p. 226. *Nuttallia Papaver*, Graham, in Hook. Bot. Mag. t. 3287. *Nuttallia cordifolia*, Nutt. in Journ. Acad. Philad. 7. p. 98.

HAB. Limestone rocks, valley of Blue and Vermillion Rivers, between Kansas and Platte Rivers; May. (n. 262). This is precisely the *M. Papaver* of Cavanilles, and is perhaps the most northern locality of the species.

3. *M. pedata*, Torr. et Gr. Am. 1. p. 227. *Nuttallia pedata*, Nutt. in Hook. Ex. Bot. 2. p. 62. *N. digitata*, Bart. Fl. Am. Sept. v. 2. p. 62. (non Nutt.)— β . *umbellata*, Torr. et Gr. l. c.

HAB. β . In a meadow of the Lower Platte River, not seen afterwards; May. Flowers milk-white (in these specimens). (n. 76). Of this species or variety the root is said to be eaten.

1. *Sida malvaeflora*, DC. Lindl. Bot. Reg. t. 1036 (excellent). Hook. Fl. Bor. Am. 1. p. 108. Torr. et Gr. Am. 1. p. 234. Var. 1. Floribus roseo-purpureis. Var. 2. Floribus puniceis ("deep red.")

HAB. Var. 1. Grassy fertile borders of rivulets in the high plains of the Spokane and Nez Perce Indians. (n. 404). Var. 2. Rocky ravines of Muddy River, near Smith's Fork of the Colorado: the only specimen found. (n. 82). The latter differs in no respect from the former, save in the deeper and redder colour of the flower.

2. *Sida coccinea*, DC. Hook. Fl. Bor. Am. 1. p. 108. Torr. et Gr. 1. p. 235. *Malva coccinea*, Nutt. Gen. Am. 2. p. 81. Sims, Bot. Mag. t. 1673.

HAB. Fertile elevated plains, Lower Platte, growing with *Gaura coccinea*, *Pentstemon "albidus,"* and *Batschia "decumbens."* June. (n. 174).

3. *Sida dissecta*, Nutt. in Torr. et Gr. 1. p. 235.

HAB. Gravelly slopes of calcareous hills, Black's Fork of the Upper Colorado. (n. 98).—This seems gradually to pass into *S. coccinea*.

ACERINEÆ, Juss.

1. *Acer Douglasii*, nov. sp.; foliis cordato-rotundatis membranaceis obtusiusculis 5-lobis brevissime acuminatis grosse inciso-serratis glabris 3-5-nerviis subtus pallidioribus, racemis laxis umbellatis 4-8 floris basi (foliisque novellis) longe bracteatis, bracteis ovato-lanceolatis coloratis intus pubescentibus, calycibus petalisque linearibus glaberrimis, fructibus umbellatis erecto-patentibus alis subfalcatis obtusis. (TAB. VI).

Acer barbatum, Dougl. in Hook. Fl. Bor. Am. 1. p. 112. (var. *Mx.*)

HAB. Near springs of the Rocky Mountains about the sources of the Columbia, *Douglas, Drummond*. Blue Mountains of Oregon, *Douglas*. Banks of streams, Upper Oregon, 10—20 feet high, very often shrubby; more elevated in the lower regions, *Geyer*. (n. 616).—My first specimens of this, both from Douglas and Drummond, being only young flowering branches, I was unable to give an opinion respecting the species. Since the publication of the *Flora Boreali-Americana*, I have received good fructified specimens, gathered during poor Douglas' last journey in the Blue Mountains; and now I possess flowering and fruiting specimens from Mr. Geyer, all of which clearly prove this to be a new and most distinct species, totally unlike *A. grandidentatum* of Nuttall, to which Messrs. Torrey and Gray have, with slight doubts however, referred it. Our figure will, we trust, satisfactorily show the characters of this species, which has a good deal the flowers of *A. circinnatum*, while its leaves more resemble those of *A. rubrum*: but it is in other respects very different from both.

TAB. VI. Fig. 1. Flower, *magn.*

CELASTRINEÆ, *Br.*

1. *Oreophila myrtifolia*, Nutt. in Torr. et Gr. Am. 1. p. 259. *Myginda myrtifolia*, Nutt. *Gen. Am.* 1. p. 109. *Hook. Fl. Bor. Am.* 1. p. 120. t. 41.

HAB. My specimen and the habitat are mislaid. The specimen was probably from the Rocky Mountains of the Oregon (n. 331. on the authority of Mr. Geyer's list.)

RHAMNEÆ, *Juss.*

1. *Rhamnus Purshianus*, DC. *Hook. Fl. Bor. Am.* 1. p. 123. t. 43. Torr. et Gr. Am. 1. p. 262. *R. alnifolius*, *Ph.* (*non L'Hérit.*)

HAB. Rocks and water-courses in the plains, Spokane River and Cœur d'Aleine country. A small tree or shrub, 8—12 feet high. June. (n. 522).

1. *Ceanothus Oreganus*, Nutt. in Torr. et Gr. Am. 1. p. 265.
C. sanguineus, Hook. Fl. Bor. Am. 1. p. 125. (*non Ph.*)
 HAB. Mountains, Upper Oregon, 2—10 feet high. Outline of the bush globose, outer stems rooting. Leaves biennial. Young leaves, after they attain their full size, are shining and covered on the upper surface with a glutinous colourless substance. Flowers white. Grows with *Spiræa ariaefolia*, June. (n. 526).

(*To be continued*).

Journal of the Voyage to the NIGER of DR. J. R. T. VOGEL.

(*Continued from Vol. V. p. 644.*)

Thursday, 5th of August.—We left Accra after midnight, and cast anchor on Sunday, the 9th, at the mouth of a river, supposed to be the Nun. The weather was gloomy, and a dense rain falling all day, caused the wet to make its way through the shutters, so that it was difficult to find a dry place, even for standing room. We stayed there the whole day, and sailed next morning for the mouth of the Nun, anchoring about nine miles off it, alongside the Albert.

Friday the 13th of August.—The want of water, already felt the day before, was now more severely experienced, although we had collected some rain on Monday. How such an Expedition came to be unprovided with water, especially when we consider that, on no account, ought we have made use at first of the Niger water, is incomprehensible to me. It had been easy to obtain abundance of good water at Danish Accra.

Sunday, August 15.—We quitted our anchorage at half past eleven, A.M., and crossed without difficulty the bar, beyond which we cast anchor beside the Albert, at about a quarter to two, P.M. Here we stopped four days, during which I could only examine the right bank of the river,