

A LIST OF LABRADOR COLEOPTERA.

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It is an eminently proper introduction to the following list of Labrador beetles to express, as best I may, the great obligation I am under to Dr. Wilfred T. Grenfell, whose enthusiastic help and suggestions put me into communication with exactly the right men to collect for me, when I set out, a few years ago, to obtain Dytiscidæ from this region. The fact of my acquaintance with Dr. Grenfell and his own personal appeals to my correspondents in my behalf, aroused an interest and resulted in efforts successful to an extent far beyond my greatest hopes. But the willing coöperation of my Labrador friends will be readily understood by those whose privilege it is to know this wonderful man with his great love for his fellowmen—a privilege which has been one of the great joys of my own life.

My own Labrador material consists of about ten thousand specimens of beetles, collected by seven residents of Labrador selected by Dr. Grenfell, none of them entomologists, but some of them very successful collectors nevertheless. The localities represented are West St. Modest, Red Bay and Cape Charles, in the Straits of Belle Isle; Hopedale and Nain further up the coast; Nachvak in the far north; and Fort Chimo on Ungava Bay. About one hundred species are represented in my material, and as the attention of my correspondents up to the present time has been principally directed toward collecting *water* beetles, it is likely that several additional species will be found.

The only published list of Labrador beetles with which I am familiar is that of Dr. Packard, published in its complete form in the *Canadian Entomologist* for August, 1888, and again in Dr. Packard's fascinating book, "The Labrador Coast" (1891). This list included sixty-three species, mostly collected by Dr. Packard himself. The collection is now contained in the entomological collections of the Museum of Comparative Zoölogy at Cambridge, Mass. There is also a brief list, by the late Dr. James Fletcher, of thirteen species of

beetles collected in the interior of the Labrador peninsula in 1894 by A. P. Low.¹ I have combined these lists with my own.

With the very kind permission of the authorities of the U. S. National Museum, Dr. L. O. Howard and Mr. E. A. Schwarz, I am also able to include Mr. Schwarz's manuscript list of the fifty-nine species collected by L. M. Turner in 1883, in the Ungava Bay region in northern Labrador. Some reference has been made to this collection by the late Roland Hayward in his "Studies in Amara." Mr. Schwarz has very recently gone over his list for me, and has also examined a number of the species received by me.

Including these other lists I am now able to present a list of 166 species, of which 46 are Carabidæ and 34 are Dytiscidæ. In regard to my own material, I wish to say that my good friend, Mr. Frederick Blanchard, has examined and determined a large percentage of the species, supplying at the same time copious information as to several of them, so that to a great extent it is Mr. Blanchard's list rather than my own. The late Roland Hayward examined nearly all the species of Carabidæ, Mr. C. H. Roberts has carefully studied the Dytiscidæ, and, as before stated, Mr. Schwarz has studied several of my species.

I have sought to indicate the geographical distribution of the various species to some extent, including particularly records of occurrences in Greenland, the White Mountains of New Hampshire, Alaska, Newfoundland, the Hudson Bay region. Some of the published lists consulted for this purpose are:

1. Coleoptera Groenlandica, by Wm. Lundbeck. (Videnskabalige Meddelelser, 1896.) This list enumerates 33 species, of which 9 occur in Labrador. One or two other species not listed by Lundbeck occur both in Greenland and Labrador.

2. List of the Coleoptera of Mt. Washington, by Fred. C. Bowditch, Psyche, June, 1896. This list embraced the list of E. P. Austin and other previous lists.

3. Lists of Mt. Washington insects by Mrs. Slosson, published at various times in Entomological News.

4. List of Alaska Coleoptera, by John Hamilton in Transactions American Entomological Society, Vol. XXI, January, 1894.

¹ Geological Survey of Canada, Part L, Annual Report, Vol. VIII, Ottawa, 1896.

5. Coleoptera of the Harriman Alaska Expedition, by E. A. Schwarz.

6. Le Conte's lists of Coleoptera taken in the Hudson Bay and Lake Superior regions by Dr. Bell and others, summarized by W. H. Harrington in *Canadian Entomologist*, 1890, p. 135.

7. Coleoptera of Michigan, by E. A. Schwarz.

8. List of Coleoptera common to North America, Europe, and Asia, by John Hamilton in *Transactions American Entomological Society*, Vol. XVI, March, 1889.

In addition to these printed lists, Mr. Blanchard's letters have given numerous additional geographical references, and Mr. Percy G. Bolster, of Boston, has kindly sent me a copy of his unpublished list of about 170 species collected in Newfoundland in 1905 and 1907 and identified for him by Mr. Blanchard. Mr. Charles W. Leng's unpublished list of Newfoundland beetles has also been at my disposal.

The records herein cited show that 12 of the 166 Labrador species are known to occur in Greenland; 93 species are known to occur on Mt. Washington or elsewhere in the White Mountains of New Hampshire; 65 species are known from Alaska; 79 species from the Hudson Bay and Lake Superior regions; only 35 species are common to Labrador and Newfoundland; 48 species occur also in Europe and Asia, while three or four may be termed cosmopolitan.

In referring to the matter of geographical distribution, particularly of these northern species, one recalls Mr. Schwarz's interesting remarks on the circumpolar fauna,¹ especially the following: "The mountain ranges in America run in the direction from north to south, and the colonies of circumpolar insects upon their summits have thus been able to preserve their connection and specific identity with the arctic forms; whereas in Europe, where the mountain ranges run from east to west, the alpine colonies have generally undergone changes and, by isolation, lost their specific identity with the arctic species. There is, therefore, in the Old World an abundance of distinct alpine forms, none of which are identical with North American species; while we, on our high mountains, have but few, if any, alpine, but more arctic forms."

In the absence of other authority for the Labrador localities cited

¹ *Proceedings Washington Entomological Society*, Vol. I, No. 4.

in my list, it is to be understood that the references relate to specimens which I have received.

1. **Carabus chamissonis** Fisch.

Domino Harbor: Okkak (Packard); Ungava Bay (Turner: Schwarz list); West St. Modest; Hopedale. Greenland; Alaska (Unalashka and Kadjak) (Hamilton); Cape Blossom, within arctic circle (Fall). Mt. Washington, alpine (Bowditch). Oxford House, Nelson River House, Hudson Bay region (R. Bell). All of my Labrador specimens are entirely black.

2. **Elaphrus obliterated** Mannh. (= *obscurior* Kirby.)

One specimen, West St. Modest. Kadjak, Alaska (Hamilton); "A single specimen, taken in Latitude 65°" (Kirby). Mr. Blanchard comments: "Truly a prize find. I suppose there are more where this came from if we were only there to hunt them up."

3. **Loricera cærulescens** Linn.

West St. Modest. Mt. Washington, N. H. (Mrs. Slosson); Kenai, Alaska; California westward to Lake Superior, Magdalen Islands, Nova Scotia; Kamtschatka, Siberia, central and northern Europe (Hamilton); coast plain southwestern Newfoundland (Bolster).

4. **Notiophilus aquaticus** Linn. (= *hardyi* Putz.)

West St. Modest. Summit of Mt. Washington, N. H. (Bowditch); Oxford House, Hudson Bay (R. Bell); Behring Strait, Alaska; all northern Asia, northern and central Europe (Hamilton). Fall mentions also the following localities: Bay of Islands, Newfoundland; Colorado (5,000-10,000 feet), Beulah, New Mexico (8,000 feet), Las Vegas, New Mexico (11,000 feet), Kalispell, Mont.; a colony found by Frederick Blanchard in February, 1870, on a frozen pool in a grassy field at Tyngsboro, Mass. Coast plain, southwestern Newfoundland (Bolster).

5. **Notiophilus borealis** Harr.

The specimen from Domino Harbor, Labrador, listed by Packard as *sibiricus* Mots. is *borealis* Harr. Mr. Blanchard examined the specimen at Cambridge. *Borealis* occurs above tree line on Mt. Washington and Mt. Lafayette in the White Mountains (Blanchard), and on Mt. Marcy in the Adirondacks (Leng); also at Nome, Alaska (Dr. Blaisdell).

6. *Notiophilus semistriatus* Say.

Ungava Bay (Turner: Schwarz list). Mr. Schwarz writes, April, 1910: "The *Notiophilus* has in the meantime been determined according to Fall's paper as *semistriatus* Say." Fall cites Massachusetts, Staten Island, Pennsylvania, New Jersey, Veta Pass, Colorado, Breckenridge, Colorado (9,600-10,000 feet), and Cloudcroft, New Mexico.

7. *Nebria sahlbergi* Fisch.

Sloop Harbor; Cape Chidley (Packard); interior of Labrador (Low: Fletcher list); West St. Modest, common. Mt. Washington, N. H. (Bowditch); Kenai and Sitkha, Alaska; Queen Charlotte Island, Vancouver, Lake Superior, Quebec (Hamilton); Nelson River House, Hudson Bay (R. Bell); Newfoundland: southwestern coast plain; Grand Codroy River, and Humber River (Bolster).

8. *Pelophila rudis* Lec.**9. *Pelophila ulkei* Horn.**

Both forms at West St. Modest. One specimen of *rudis* from Cape Charles. Six specimens of *ulkei* from Red Bay. Fletcher lists *ulkei* from the interior; Schwarz lists it from Ungava Bay; Percy Bolster took one specimen on the Humber River, Newfoundland. *Rudis*, the form with the red markings, is apparently much less common than the entirely black *ulkei*. Both species were described from the Hudson Bay region and both were taken by Dr. Bell.

Dr. Van Dyke wrote me some time ago as follows: "The *Pelophilas* are mere color varieties of the same thing; *ulkei* and *rudis* were based at the most upon very small series of boreal beetles which we know vary much, not only in color, but also in physical characters." And again, after his trip to Alaska: "The series of *Pelophila* from Labrador furnished several examples of what I was looking for, that is specimens with the punctures in the striae well indicated. This proves to me that they are simply offshoots of *Pelophila Eschscholtzii* Mannh., and really should not be more than subspecies. We will need, however, to get material from more intermediate regions, before passing final judgment. The Labrador specimens are all somewhat smaller than mine from Alaska."

10. *Bembidium longulum* Lec.

West St. Modest; one specimen sent to Hayward. Occurs in Lake Superior region.

11. *Bembidium grapei* Gyll. (= *picipes* Mannh. = *nitens* Lec.)

West St. Modest, a few. Greenland (Schiodte, Lundbeck); Mt. Washington, N. H., alpine (Bowditch); Kadjak, interior of Kenai, Fort Simpson, Michigan, New Mexico, northern Siberia and Europe (Hamilton); Bay of Islands, Newfoundland (Bolster).

12. *Bembidium oblongulum* Mannh.

West St. Modest. Mt. Washington, N. H. (Bowditch); Sitkha, Queen Charlotte Island, Massachusetts (Hamilton); Newfoundland: coast plain, and Bay of Islands (Bolster).

13. *Bembidium* sp.

Ungava Bay (Turner: Schwarz list).

14. *Patrobus septentrionis* Dej.

West St. Modest, Red Bay, Cape Charles, rather common. Packard cites Belles Amours and Cape Chidley for variety *hyperboreus* Dej. and Square Island for variety *tenuis* Lec. The species is considered to include numerous forms and varieties in arctic Europe, Siberia and North America. (See Hamilton's Alaska list.) Occurs in Alaska, Hudson Bay region, Newfoundland, Mt. Washington, N. H. (Bowditch); Greenland (Schiodte, Lundbeck).

15. *Trechus rubens* Fabr. (= *micans* Lec.)

Belles Amours (Packard); West St. Modest. Newfoundland: coast plain, Grand Codroy River (Bolster); Mt. Washington, N. H. (Bowditch); Lake Superior; also northern Europe. Dr. Van Dyke wrote me: "The *Trechus* sent from Labrador is exactly like my specimens of *chalybaeus* Dej. from Alaska, Mt. Rainier, and the high Sierras. The Colorado forms are slightly different. The only forms which answered to the description of *rubens* that I have ever seen were in the Leconte collection, and even these, I am inclined to think, are not far off from *chalybaeus*."

16. *Pterostichus punctatissimus* Randall.

Ungava Bay (Turner: Schwarz list); West St. Modest. Mt. Washington, N. H. (Bowditch); Oxford House, Hudson Bay (R. Bell); Newfoundland: coast plain, Bay of Islands (Bolster); Siberia (Hamilton).

17. *Pterostichus orinomum* Leach.

Muscatina, Gulf of St. Lawrence (Packard).

18. *Pterostichus luczotii* Dej.

Blanc Sablon (Packard); West St. Modest, very common. Mt. Washington, N. H. (Bowditch); Alaska, Hudson Bay, Lake Superior (Hamilton). Newfoundland: coast plain, Bay of Islands, Humber River: common (Bolster).

19. *Pterostichus (Pseudocryobius) mandibularis* Kirby.

Ungava Bay (Turner: Schwarz list); West St. Modest, Hopedale, common. Mt. Washington, N. H. (Bowditch); below tree line in White Mountains, under bark of logs, etc.; Oxford House, Hudson Bay (R. Bell); Kenai, Alaska; Fort Simpson, Vermont, Massachusetts; also arctic Siberia (Hamilton).

20. *Pterostichus hudsonicus* Lec.

Stupart's Bay (R. Bell, Packard). Mt. Washington, N. H., common, alpine (Bowditch); Alaska; Hudson Bay (Hamilton). A species near this was received from Cape Nome and Cape Blossom within the Arctic circle (Fall, *Entomological News*, May, 1900).

21. *Pterostichus* sp.

An undetermined species of *Pterostichus* is mentioned by Dr. Fletcher in his list of species from the interior of Labrador.

22. *Amara (Cyrtonotus) cylindrica* Lec.

West St. Modest, Hopedale, Fort Chimo. One of the commonest Labrador species. Collected by me above tree line in White Mountains. Hayward mentions also the following localities: Newfoundland, Magdalen Islands, Winnipeg, Slave Lake, Hudson Bay, Colorado (8,000-10,000 feet).

23. *Amara (Cyrtonotus) hudsonica* Hayward.

Described by Hayward from three males in Collection U. S. National Museum. Ungava Bay (Turner: Schwarz list).

24. *Amara (Cyrtonotus) brunnipennis* Dej. (= *hyperborea* Dej. as understood in America; = *obtusa* Lec.)

Cape Digges, Cape Chidley, Stupart's Bay (R. Bell, Packard); West St. Modest, Hopedale, Fort Chimo. The *Amara pennis* Dej. mentioned by Packard from Caribou Island must be this species. Mt. Washington, N. H. (Bowditch); Hayward mentions also Mt. Katahdin, Me., Mt. Mansfield, Vt., Alaska, Hudson Bay, Colorado (high altitudes).

25. *Amara (Cyrtonotus) elongata* Lec. (Probably the true *hyperborea* Dej., according to Hayward.)

West St. Modest, Cape Charles, Hopedale; Ungava Bay (Turner: Schwarz list). Nelson River House, Hudson Bay (R. Bell); Lake Superior and Fort Simpson (Hayward).

26. *Amara (Cyrtonotus) hæmatopa* Dej. (= *Stereocerus similis* Kirby.)

Caribou Island, Sloop Harbor, Hopedale, Okkak (Packard); Ungava Bay (Turner: Schwarz list); West St. Modest, Red Bay, Hopedale. Mt. Washington, N. H. (Bowditch); Alaska, northwest Canada, Mt. Katahdin, Me., Green Mountains, Vt. (Hayward); Kowak River, Alaska, within Arctic circle (Fall); Nelson River House, Hudson Bay (R. Bell).

27. *Amara (Bradytus) glacialis* Mannh.

Ungava Bay (Turner: Schwarz list); Hopedale, Nain. Kenai, Alaska, and on the mainland; also Kamtschatka (Hamilton).

28. *Amara (Bradytus) Schwarzii* Hayward. (= *septentrionalis* Lec.)

West St. Modest, one specimen. Described from Lake Superior.

29. *Amara (Celia) erratica* Sturm.

West St. Modest, two or three. Mt. Washington, N. H. (Bowditch). Hamilton gives following distribution: Atkha, Kadjak, Kenai, Alaska; Queen Charlotte Island; British Columbia to Hudson Bay, southward to Vermont and Lake Superior, through Rocky Mountains to New Mexico; arctic Siberia southward to Mongolia and Turkestan; northern and middle Europe.

30. *Amara (Celia) interstitialis* Dej.

Ungava Bay (Turner: Schwarz list); Hopedale, one or two specimens. Hamilton gives Alaska, British Columbia, Washington, Oregon, California, Fort Simpson, eastward to Hudson Bay and Nova Scotia, southward through the Alleghanies to Pennsylvania, and through the Rocky Mountains to New Mexico; arctic Siberia, Kamtschatka, arctic Europe, Turkestan.

31. *Amara (Celia) remotestriata* Dej.

Ungava Bay (Turner: Schwarz list); Nain, one or two examples. Hamilton cites Alaska to Hudson Bay, Montana to New Mexico, Wisconsin to New York, New Jersey, Iowa.

32. *Amara (Celia) sp.*

Ungava Bay (Turner: Schwarz list).

33. *Calathus ingratus* Dej.

Whole coast (Packard); West St. Modest, Nain, common. Mt. Washington, N. H. (Bowditch); Hamilton quotes Alaska, Lake Superior, Colorado, New Mexico; Newfoundland: coast plain and Bay of Islands (Bolster).

34. *Calathus advena* Lec. (= *mollis* Motsch.)

West St. Modest, two specimens. Mt. Washington, N. H. (Bowditch); Alaska, Lake Superior, Vermont, Maine (Hamilton).

35. *Platynus maurus* Motsch. (= *angusticollis* Dej. as erroneously determined by Kirby.)

West St. Modest, two or three. Mt. Washington, N. H. (Bowditch); Alaska, Hudson Bay, Newfoundland (Hamilton).

36. *Platynus sinuatus* Dej.

Belles Amours, Straits Belle Isle (Packard). Mt. Washington, N. H. (Bowditch); Hudson Bay, Lake Superior, Newfoundland: coast, plain and tableland, Grand Codroy River, Bay of Islands (Bolster).

37. *Platynus deceptivus* Lec. ?

Ungava Bay (Turner: Schwarz list).

38. *Platynus 4-punctatus* Kirby.

West St. Modest, one. Mt. Washington, N. H. (Bowditch); Alaska, boreal regions of British Columbia to Hudson Bay, southward to New York and western Pennsylvania, Rocky Mountains to New Mexico; Siberia, boreal and alpine Europe (Hamilton).

39. *Platynus sordens* Kirby.

West St. Modest, one. Thunder Bay to Lake of the Woods, west of Lake Superior (R. Bell).

40. *Lebia grandis* Hentz.

Ungava Bay (Turner: Schwarz list).

41. *Cymindis unicolor* Kirby.

Ungava Bay (Turner: Schwarz list); West St. Modest, two specimens. Mt. Washington, N. H. (Bowditch); Hudson Bay, New England States, Argentine Pass, Colorado (13,000 feet).

42. *Harpalus megacephalus* Lec.

Ungava Bay (Turner: Schwarz list).

43. *Harpalus fulvilabris* Mannh.

West St. Modest, two. Kadjak, Alaska, and on the Saskatchewan (Hamilton). Lake Superior. Newfoundland (Bolster).

44. *Harpalus herbivagus* Say var. *proximus* Lec.

Square Island (Packard). I received several examples of a *Harpalus* pronounced "*near herbivagus* Say" by Blanchard, and "*near pleuriticus* Kirby" by Hayward. All my specimens came from West St. Modest, and Bolster took the same species in Newfoundland. *Harpalus pleuriticus* Kirby is recorded from Mt. Washington, N. H. (Bowditch), Hudson Bay, Lake Superior, New York and elsewhere.

45. *Trichocellus* (*Bradycellus*) *cognatus* Gyll.

West St. Modest, a dozen or so. Greenland (Schiodte, Lundbeck); Mt. Washington, N. H. (Bowditch); Alaska to Nova Scotia, Colorado, California, Arctic Siberia, northern and central Europe (Hamilton); Newfoundland: coast plain (Bolster).

46. *Trichocellus* sp.

Ungava (Turner: Schwarz list). Mr. Schwarz writes: "Radically different from *cognatus* Gyll. though also a *Trichocellus*; being unfamiliar, however, with the Siberian literature, I am unwilling to attach a specific name to it."

47. *Haliplus cribrarius* Lec.

West St. Modest, one specimen. Mt. Washington, N. H., Lakes of Clouds (5,000 feet), common (Bowditch); Hudson Bay, Lake Superior. Newfoundland: coast plain (Bolster); Bay of Islands (Leng).

48. *Deronectes griseostriatus* DeG. (= *catascopium* Say.)

Square Island, Dumplin Harbor (Packard); West St. Modest, Cape Charles, Red Bay, Nachvak. Very common; one bottle from West St. Modest contained over 1,000 specimens. Ungava Bay (Turner: Schwarz list). Mt. Washington, N. H. (Bowditch list). Very abundant Starr Lake, N. H. (4,800 feet). Hamilton gives Alaska to Labrador, southward to Pennsylvania, Colorado and California: Arctic Siberia, alpine and northern Europe, Lapland.

The form *catascopium* Say, found in the vicinity of New York, Chicago, etc., differs somewhat from the northern form and is seldom found in quantities.

49. *Hydroporus longicornis* Sharp.

Stupart's Bay (R. Bell: Packard). Finland, Scotland, Wales, Savoy (Sharp).

50. *Hydroporus perplexus* Sharp.

Stupart's Bay (R. Bell: Packard). Allied to the following species. Described from California.

51. *Hydroporus tenebrosus* Lec.

Caribou Island (Packard); Ungava Bay (Turner: Schwarz list). The three Turner specimens are very large and reddish. Described from Lake Superior. I take this species at Hermit Lake (3,700 feet) on Mt. Washington, N. H., also at Randolph, N. H. (1,300 feet). Tyngsboro, Mass. (Blanchard).

52. *Hydroporus morio* Sharp. (= *articeps* Crotch = *melanocephalus* Marsh., Steph. as ordinarily referred to.)

Ungava Bay (Turner: Schwarz list); West St. Modest, Red Bay, Hopedale, Nachvak; common. Greenland (Lundbeck); Mt. Washington, N. H. (Bowditch). I have taken this species on Mt. Washington both at Hermit Lake (3,700 feet), below the tree line, and at the Lakes of Clouds (5,000 feet). Europe; Siberia; Finland 69° north; Scotland (Sharp).

53. *Hydroporus puberulus* Lec.

Sloop Harbor, Dumplin Harbor (Packard). Described from Lake Superior.

54. *Hydroporus humeralis* Aubé.

West St. Modest, three specimens. Alaska, British Columbia.

55. *Hydroporus arcticus* Thomson.

Several specimens from Nachvak; one from Hopedale; identical with my Lapland examples received from René Oberthür. Arctic Siberia 69° north (Sahlberg).

56. *Cœlambus unguicularis* Crotch.

Ungava Bay (Turner: Schwarz list). Described from British Columbia.

57. *Ilybius subæneus* Er.

Ungava Bay (Turner: Schwarz list). Red Bay, common: West St. Modest, a few. Europe; Finland to 69° north, France, Germany:

Hudson Bay (Sharp); Newfoundland: Bay of Islands, Little Codroy River (Bolster).

58. *Ilybius pleuriticus* Lec.

West St. Modest, uncommon. Hermit Lake, Mt. Washington, N. H. (3,700 feet). Newfoundland, Bay of Islands (Leng, Bolster). Described from Lake Superior. Occurs rarely in northeastern states.

59. *Ilybius angustior* Gyll. (= *Colymbetes picipes* Kirby.)

Caribou Island, Strawberry Harbor (Packard); Red Bay, very common; West St. Modest. Mt. Washington, N. H., one in Lakes of Clouds (Bowditch), Kenai, Alaska; Lake Superior, Kansas, Siberia, northern Europe, Lapland (Hamilton).

60. *Ilybius discedens* Sharp.

West St. Modest, four. Mt. Washington, N. H., one specimen in Lake of Clouds (Blanchard); Newfoundland, Bay of Islands (Leng). Described from Hudson Bay.

61. *Agabus seriatus* Say. (= *parallelus* Lec.)

Square Island (Packard). I took several on Mt. Washington carriage road, about 2,500 feet. Widely distributed in eastern United States. Common in Newfoundland, at edge of tableland of Little Codroy River, 700 feet (Bolster). Summit of Mt. Washington, July (Bowditch).

62. *Agabus semipunctatus* Kirby.

Caribou Island (Packard). I have taken this species at Lakes of Clouds Mt. Washington, N. H. (5,000 feet), Storm Lake, N. H. (4,900 feet), Randolph, N. H. (1,300 feet), Peekskill, N. Y. I also have specimens from Antigonish, Nova Scotia; Ottawa, Ontario (Harrington); Lake Forest, Illinois (Needham); Brookline, Massachusetts (Bowditch). Hamilton gives Kenai, Alaska, Lake Superior, Missouri.

63. *Agabus æneolus* Crotch. (= *punctulatus* Aubé.)

Caribou Island (Packard). Mt. Washington, N. H., Lakes of Clouds July (Bowditch); September (Sherman); West Hebron, N. Y. (Leng); Colorado 8,000 feet (Bowditch); Corvallis, Oregon (Woodcock); Lake Superior (LeConte); Pennsylvania, Newfoundland (Crotch).

64. *Agabus congener* Payk.

Very common. West St. Modest, Red Bay, Cape Charles, Hopedale, Nachvak, Fort Chimo. Common in White Mountains, above the tree line, in September. "An arctic, alpine, and subalpine species" (Sharp). Greenland, Siberia, Sweden, Finland, Lapland, Britain, Germany, France, northern Italy (Sharp).

65. *Agabus inscriptus* Crotch.

Described from Labrador. I have a few specimens from West St. Modest and Red Bay.

It is less common than *congener* with which it is united by Sharp. Crotch's *inscriptus* is a smaller form, less reticulate and more shining, more convex in form, and the color tends more to yellowish and red; while the *congener* form is darker, more opaque, and more depressed. *Inscriptus* is moderately common at Hermit Lake, Mt. Washington, N. H. (3,700 feet), but is seldom found above the tree line. *Inscriptus* Crotch is probably the beetle referred to as *discolor* Lec. by Packard in his list, from Indian Harbor.

66. *Agabus nigripalpis* Sahlb. (= *borealis* Sharp = *dissimilis* Sahlb.)

Stupart's Bay (R. Bell), several. This is the species listed by Packard as *Agabus longulus* Lec.? Regarded by Sharp as probably a variety of *congener* Payk. My single specimen, one of the Bell specimens presented to me by Mr. W. H. Harrington, is a narrow elongate beetle, with the sides very parallel, much smaller than any of my own Labrador allied specimens and quite different in appearance. This same form also taken at Cape Digges by Dr. Bell.

67. *Agabus infuscatus* Aubé.

Ungava Bay (Turner: Schwarz list). Very common West St. Modest, Hopedale. Either this species or *inscriptus* Crotch is undoubtedly the beetle from Caribou Island listed by Packard as *ambiguus* Lec. This Labrador species is the real *infuscatus* of Aubé, as I know from typical specimens received from René Oberthür.

Whether the beetle taken by Mr. Bowditch in Lakes of Clouds, Mt. Washington, N. H., in July, is the same as this Labrador species I do not know, but all the specimens of *infuscatus* Aubé I have ever seen are from Labrador.

68. *Agabus arcticus* Payk. (= *subfasciatus* Lec.)

Caribou Island (Packard). Very common West St. Modest, Red Bay, also Hopedale. In North America this very distinct species is confined to Labrador. Arctic Siberia, Sweden, Finland to 69° north, Scotland, Alsatia (Sharp).

69. *Agabus Erichsoni* G. & H. (= *nigroaeneus* Er. = *lutosus* Crotch.)

West St. Modest, Nachvak; rare. I have collected this species with Mr. Blanchard, at Tyngsboro, Massachusetts. It looks superficially very much like an *Ilybius*.

I also have specimens from Aweme, Manitoba (Criddle) and Chatham, Michigan. Sweden, Finland, France, Germany (Sharp).

70. *Agabus tristis* Aubé.

Nachvak, several: one from Cape Charles; all specimens were the black variety. Mr. Bowditch found the brown variety very common in the Lakes of Clouds, Mt. Washington, N. H., in July. I was much disappointed not to find it there in September.

Both forms occur in Alaska. Dr. Van Dyke sent me a liberal series from Dutch Harbor, Unalashka. Hamilton mentions its occurrence in America north of Arctic circle, also Lake Tahoe, California, New Mexico, and Arctic Siberia.

71. *Agabus fuscipennis* Payk.

About twenty specimens from West St. Modest. A very distinct species, not previously recorded from North America. Siberia, Sweden, Finland, North Germany (Sharp). An allied, apparently undescribed species, considerably larger, is found in Alberta.

72. *Agabus lævidorsus* Lec.

Caribou Island (Packard). This is evidently a manuscript name and I do not know what species is referred to.

73. *Agabus* sp.

An undetermined *Agabus* is mentioned in Fletcher's list of species from interior of Labrador.

74. *Rhantus bistriatus* Bergst.

Red Bay, one specimen. Mt. Washington, N. H., Lakes of Clouds (5,000 feet) Bowditch), and at Hermit Lake (3,700 feet) by myself. Antigonish, Nova Scotia; Tyngsboro, Mass. (Blanch-

ard); Wingdale, N. Y.; Golden, B. C., Waghorn, Alberta; Detroit, Mich. (Sherman collection). Lake Superior, Hudson Bay, central and northern Europe, east and west Siberia (Hamilton).

75. *Rhantus binotatus* Harris.

Labrador (probably). Packard list. Common in White Mountains, both below and above the tree line. Widely distributed in North America.

76. *Colymbetes sculptilis* Harris.

Caribou Island, Square Island, Hopedale (Packard). White Mountains, N. H., below and above the tree line. Lake Superior (LeConte); Long Island. The common species in eastern United States.

77. *Colymbetes rugipennis* Sharp.

Red Bay, common. Described from northern boundary of Nebraska. Mr. Roberts considers this to be a good species. It occurs also at Winnipeg.

78. *Colymbetes grœnlandicus* Aubé.

A lot from Nachvak. Ungava Bay (Turner: Schwarz list). Régimbart (Bulletin Entomological Society of France, Vol. XVII, 1889) regards *grœnlandicus* Aubé (Greenland, Iceland, Labrador), *Drewseni* Lec. (Greenland), *Thomsoni* Sharp (Lapland, Iceland) as varieties of *dolobratus* Payk., which Dr. Van Dyke took on the Alaskan islands.

79. *Dytiscus dauricus* Gebl.

West St. Modest, Red Bay. Interior of Labrador (Low: Fletcher list). I took this species at Hermit Lake, Mt. Washington, N. H. (3,700 feet). Maine to Alaska; Kamtschatka; Dauria (Hamilton).

80. *Dytiscus parvulus* Mannh.

One or two specimens from Nain and Hopedale Mr. Roberts refers to this species, which was described from Alaska.

81. *Gyrinus minutus* Fabr.

82. *Gyrinus affinis* Aubé. ?

These two species are listed by Packard from Square Island.

83. *Gyrinus picipes* Aubé.

Red Bay, West St. Modest, Cape Charles, Hopedale. Blanchard writes: "It seems as though your Labrador *Gyrinus* ought to be *picipes*, of which Le Conte remarked he had three from Labrador 'one of which does not seem to differ from Alaska types sent by Chaudoir.' Description of *opacus* Sahlb. however fits much better. Le Conte had Greenland examples of *opacus*."

Gyrinus picipes occurs from Alaska to Labrador.

84. *Helophorus lineatus* Say.85. *Helophorus inquinatus* Mannh.

Ungava Bay (Turner: Schwarz list). Mr. Schwarz states that these are not to be considered definite determinations, as the genus requires thorough investigation. Both of the above species are on the Bowditch list of Mt. Washington, N. H., species. *H. inquinatus* Mannh. is recorded from Alaska and Lake Superior.

86. *Philhydrus bifidus* Lec.

Caribou Island (Packard); Lake Superior, New England States.

87. *Hydrobius fuscipes* Linn.

Ungava (Turner: Schwarz list); West St. Modest, not rare. Mt. Washington, N. H., summit (Bowditch). Hamilton says: "Very variable and widely distributed in temperate and boreal America; general in Europe; Kamtschatka, east and west Siberia, Turkestan."

88. *Silpha lapponica* Linn.

Caribou Island to Hopedale (Packard); Ungava Bay (Turner: Schwarz list); West St. Modest, Red Bay, Nachvak; interior of Labrador (Fletcher list). Schwarz says: "Occurs all over North America except in the southeast, being still common as far south as San Diego, Cal. In Europe it is strictly arctic and does not occur even in the alpine regions." Fall mentions its occurrence at Cape Blossom, Alaska, within the Arctic circle.

89. *Choleva luridipennis* Mannh.

West St. Modest, a few. Described from Alaska; occurs eastward to New England States.

90. *Agathidium obsoletum* Lec.

Square Island (Packard). No such name appears in Henshaw's

index of the Le Conte species; nor is it used in Horn's Revision of the Silphidæ.

91. *Homalota* sp.

92. *Homalota* sp.

93. *Placusa* sp.

These three are from Ungava Bay (Turner: Schwarz list). Mr. Schwarz writes: "The Aleocharinæ of this list are in an extremely poor state of preservation, and no attempt should be made to name them specifically."

94. *Quedius sublimbatus* Mäkl.

Blanc Sablon (R. Bell: Packard). Hamilton gives Alaska, Lake Superior, eastern Siberia, Behring Island.

95. *Quedius molochinus* Grav.

West St. Modest, a few. Mt. Washington, N. H., summit (Bowditch); Alaska, all North America to Mexico, Siberia, Mediterranean countries, all Europe (Hamilton); Newfoundland (Bolster).

96. *Quedius fulvicollis* Stephens. (= *hyperboreus* Er.)

West St. Modest, one; Mt. Washington, N. H., summit (Bowditch); Unalashka and eastward (Hamilton).

97. *Creophilus maxillosus* Linn. var. *villosus* Grav.

Caribou Island (Packard). Cosmopolitan. Greenland (Schjödte); Newfoundland (Bolster); Alaska (Hamilton).

98. *Tachyporus* sp.

Hopedale (Packard).

99. *Bryoporus rufescens* Lec.

Ungava (Turner: Schwarz list); Mt. Washington, N. H., summit (Bowditch).

100. *Bledius* sp.

Labrador (Packard).

101. *Acidota quadrata* Zett.

Ungava (Turner: Schwarz list); West St. Modest, one. Mt. Washington, N. H. (Bowditch); Alaska, Colorado, Lake Superior, Arctic Siberia, Lapland (Hamilton).

102. *Arpedium brachypterum* Grav.

Nain and Hopedale, three or four. Lake Superior, Europe. Two very similar species in White Mountains (Blanchard).

103. *Homalium lapponicum* Zett.

Ungava (Turner: Schwarz list). Alaska, Marquette, Mich., Massachusetts, central and northern Europe, western Siberia (Hamilton); Newfoundland (Bolster).

104. *Coccinella nivicola* Muls. (= *monticola* Muls. = *lacustris* Lec.)

Okkak (Packard). Mt. Washington, N. H. (Bowditch); Alaska, Oregon to Colorado and New Mexico, Kansas, Michigan, Lake Superior, Arctic Siberia (Hamilton).

105. *Coccinella transversoguttata* Fald.

Interior of Labrador (Low: Fletcher list). Greenland (Lundbeck); Mt. Washington, N. H., summit (Bowditch); Alaska, Hudson Bay, south to Michigan and Kansas, Rocky Mountains to Mexico, Japan, Dauria, Lapland (Hamilton).

106. *Pediacus fuscus* Grav.

Hopedale, one specimen. Ungava Bay (Turner: Schwarz list). Oxford House, Hudson Bay (R. Bell); Alaska, Lake Superior, New Mexico, Colorado, central and northern Europe (Hamilton).

107. *Henoticus serratus* Gyll.

West St. Modest, one specimen. Mt. Washington, N. H., summit (Bowditch); Alaska, southward to Virginia and southern California, Europe (Hamilton).

108. *Cryptophagus* sp.

West St. Modest, two.

109. *Cryptophagus* sp.

Ungava Bay (Turner: Schwarz list).

110. *Cœnoscelis* sp.

Ungava Bay (Turner: Schwarz list).

111. *Atomaria* sp.

Caribou Island (Packard).

112. *Dermestes lardarius* Linn.

West St. Modest. Mt. Washington, N. H. (Bowditch); Nelson

River House, Hudson Bay (R. Bell); Europe and America; Greenland (Lundbeck).

113. *Epuræa truncatella* Mannh.

Ungava Bay (Turner: Schwarz list); West St. Modest, one. Mt. Washington, N. H., summit (Bowditch); Alaska, British Columbia to Canada, Washington, California, Colorado, New Mexico (Hamilton).

114. *Ips sanguinolentus* Oliv.

Caribou Island (Packard); Mt. Washington, N. H., summit (Bowditch).

115. *Latridius minutus* Linn.

West St. Modest, one specimen. Alaska, North America, Europe, Asia; cosmopolitan (Hamilton).

116. *Corticaria ferruginea* Gyll. (= *deleta* Mannh.)

Ungava Bay (Turner: Schwarz list); West St. Modest, three. Mt. Washington, N. H. (Mrs. Slosson); Alaska, Hudson Bay to Florida; Siberia, Dauria, Europe (Hamilton).

117. *Corticaria dentigera* Lec.

Ungava Bay (Turner: Schwarz list).

118. *Simplocaria metallica* Sturm.

West St. Modest. Greenland (Schiödt, Lundbeck). Common on summit of Mt. Washington, N. H., September, 1906. Alaska, Lake Superior, northern and alpine Europe (Hamilton).

119. *Morychus*, new species.

Ungava Bay (Turner: Schwarz list).

120. *Byrrhus americanus* Lec.

Caribou Island (Packard); West St. Modest, common. Mt. Washington, N. H., summit (Bowditch); Lake Superior, northeastern U. S.

121. *Byrrhus Kirbyi* Lec. (= *picipes* Kirby.)

Caribou Island (Packard); Ungava Bay (Turner: Schwarz list); West St. Modest, two. Described from latitude 54° by Kirby; Mt. Washington, N. H., summit (Bowditch).

122. *Byrrhus geminatus* Lec.

Ungava Bay (Turner: Schwarz list); summit of Mt. Washington, N. H. (Bowditch).

123. *Byrrhus cyclophorus* Kirby.

West St. Modest, Hopedale, common. Mt. Washington, N. H., summit (Bowditch); Alaska, Hudson Bay, Lake Superior, Colorado (Hamilton).

124. *Hypnoidus sanborni* Horn.

Ungava Bay (Turner: Schwarz list); summit of Mt. Washington, N. H., subalpine (Bowditch).

125. *Hypnoidus nocturnus* Esch. var. *bicolor* Esch.

Belles Amours, Strawberry Harbor, Indian Harbor (Packard); West St. Modest, very common; Hopedale, two. Mt. Washington, N. H., subalpine (Bowditch); Alaska, eastern Siberia (Hamilton).

126. *Elater nigrinus* Payk.

West St. Modest, two or three. Nelson River House, Hudson Bay (R. Bell); Alaska, Lake Superior, Vermont, Europe, Siberia (Hamilton).

127. *Paranomus costalis* Payk. (= *Eanus vagus* Lec.)

Square Island (Packard); West St. Modest, a few. Mt. Washington, N. H. (Bowditch); Lake Superior, Europe, Sweden, Finland, Lapland (Hamilton).

128. *Paranomus estriatus* Lec.

West St. Modest, about two dozen; Red Bay, one. Mt. Washington, N. H. (Bowditch); Lake Superior.

129. *Paranomus pictus* Cand.

Caribou Island to Square Island (Packard); West St. Modest, a few; Mt. Washington, N. H. (Bowditch).

The genus *Paranomus* is represented in Alaska by the species *decoratus* Mannh.

130. *Sericosomus incongruus* Lec.

Square Island (Packard); one specimen West St. Modest. Mt. Washington, N. H. (Bowditch); Sitkha, Alaska (Harriman Expedition, Schwarz); Banff, Alberta; Tenino, Wash. (Schwarz).

131. *Corymbites spinosus* Lec.

West St. Modest, a few. Mt. Washington, N. H., summit, very common (Bowditch); Oxford House, Hudson Bay (R. Bell); Mt. Monadnock (Blanchard); Newfoundland; Little Codroy River tableland (700 feet) (Bolster).

132. *Melanophila appendiculata* Fabr. (= *acuminata* Fabr. = *longipes* Say.)

Ungava Bay (Turner: Schwarz list); West St. Modest, Nain. Summit of Mt. Washington, N. H. (Bowditch); Cape Nome, Alaska, within Arctic circle (Fall). Found throughout North America, also in Kantschatka, Siberia, China, Europe (Hamilton).

133. *Melanophila fulvoguttata* Harris.

Ungava Bay (Turner: Schwarz list); Mt. Washington, N. H., summit (Bowditch). Mr. Schwarz remarks: "I have never been able to distinguish certain forms from *M. drummondi*."

134. *Melanophila guttulata* Gebl. (= *drummondi* Kirby.)

Hopedale, one specimen. Mt. Washington, N. H., summit (Bowditch); Alaska, Rocky Mountains to New Mexico, Hudson Bay, all Siberia, Mongolia, and the Amur countries; exceedingly variable in every way (Hamilton).

135. *Eros aurora* Hbst.

Interior of Labrador (Fletcher list). Summit of Mt. Washington, N. H. (Bowditch); Wrangel, Oregon, Hudson Bay to Georgia, Europe, east and west Siberia (Hamilton).

136. *Podabrus piniphilus* Esch.

Interior of Labrador (Fletcher list); Hopedale. Mt. Washington, N. H., subalpine (Bowditch); Alaska, Oregon, Montana, Canada (Hamilton).

137. *Podabrus extremus* Lec.

West St. Modest, one specimen. Mt. Washington, N. H. (Mrs. Slosson). Described from Hudson Bay.

138. *Podabrus lævicollis* Kirby.

Hopedale (Packard). Mt. Washington, N. H., alpine and subalpine (Bowditch); Lake Superior, British Columbia, Newfoundland; edge of tableland Little Codroy River (700 feet or more) (Bolster).

139. *Telephorus fraxini* Say. (= *Podabrus mandibularis* Kirby.)

Caribou Island (Packard); West St. Modest; Ungava Bay (Turner: Schwarz list); Mt. Washington, N. H. (Bowditch); Alaska to New Mexico, westward to Hudson Bay and southward to Virginia (Hamilton).

140. *Telephorus nigrutilus* Lec.

West St. Modest, Nain. Mt. Washington, N. H. (Bowditch); Newfoundland; edge of tableland Little Codroy River (700 feet or more) (Bolster).

141. *Telephorus curtisii* Kirby.

West St. Modest, a few. Summit of Mt. Washington, N. H. (Bowditch).

142. *Sitodrepa panicea* Linn.

West St. Modest, one. Alaska; cosmopolitan.

143. *Aphodius guttatus* Esch.

West St. Modest, two or three; common in Unalashka (Hamilton).

144. *Crioccephalus agrestis* Kirby.

Ungava Bay (Turner: Schwarz list); West St. Modest, Red Bay, Hopedale, Fort Chimo; Nelson River House, Hudson Bay (R. Bell), Lake Superior.

145. *Crioccephalus obsoletus* Randall.

Okkak (Packard).

146. *Xylotrechus undulatus* Say.

Ungava Bay (Turner: Schwarz list); summit of Mt. Washington, N. H. (Bowditch).

147. *Pachyta liturata* Kirby. (= *Argaleus nitens* Lec.)

Near Cape Harrison (Packard); Ungava Bay (Turner: Schwarz list); Fort Chimo, Hopedale. Nelson River House, Hudson Bay (R. Bell). Hamilton gives Alaska, British Columbia to Canada and north to Hudson Bay, Michigan, Vermont, Idaho to New Mexico.

148. *Acmæops pratensis* Leach. (= *semimarginata* Randall, = *fulvipennis* Mannh.)

Hopedale, three. Summit of Mt. Washington, N. H. (Bowditch).

Newfoundland, common; coast plain and edge of tableland, Little Codroy River; Bay of Islands; Humber River (Bolster). Alaska, through the Rocky Mountains to New Mexico, Wyoming, Michigan, Maine; arctic and eastern Siberia, northern China, alpine and northern Europe (Hamilton).

149. *Acmæops proteus* Kirby.

Ungava Bay (Turner: Schwarz list); interior of Labrador (Fletcher list); Hopedale, one. Summit of Mt. Washington, N. H. (Bowditch); Cumberland House, Oxford House, Hudson Bay (R. Bell); Lake Superior.

150. *Leptura hirtella* Lec.

This is *Leptura* species from Caribou Island, mentioned by Packard (Blanchard in letter). Mt. Washington, N. H. (Bowditch). A specimen probably of this species taken by Bolster at Bay of Islands, Newfoundland. Species occurs also in British Columbia.

151. *Leptura tibialis* Lec.

West St. Modest, one; Mt. Washington, N. H. (Bowditch); Lake Superior.

152. *Pogonocherus penicellatus* Lec.

Interior of Labrador (Fletcher list); summit of Mt. Washington, N. H. (Bowditch); Maine to Colorado (Fall).

Pogonocherus fascicularis DeG. is on Lundbeck's Greenland list.

153. *Syneta ferruginea* Germ.

Interior of Labrador (Fletcher list); Mt. Washington, N. H. (Bowditch). Newfoundland: coast plain, Little Codroy River (Bolster).

154. *Plagiodera armoraciæ* Linn.

Ungava Bay (Turner: Schwarz list).

155. *Gonioctena pallida* Linn.

Interior of Labrador (Fletcher list); summit of Mt. Washington, N. H. (Bowditch).

156. *Stenotrachelus arctatus* Say. (= *obscurus* Mannh.)

Ungava Bay (Turner: Schwarz list); West St. Modest, Hopedale. White Mountains, N. H.; "The Perch" on Mt. Jefferson,

swept from dying balsam trees (Leng); Oxford House, Hudson Bay (R. Bell). Hamilton mentions Alaska, Rocky Mountains to New Mexico, Dakota and Lake Superior region north to Hudson Bay, Allegheny Mountains in western Pennsylvania.

157. *Pytho niger* Kirby.

Ungava Bay (Turner: Schwarz list); Mt. Washington, N. H. (Bowditch).

158. *Salpingus alternatus* Lec. ?

Ungava Bay (Turner: Schwarz list). Mr. Schwarz writes: "Will remain doubtful until some one monographs our American species." *Salpingus virescens* Lec. is recorded from summit of Mt. Washington, N. H. (Bowditch). *Salpingus elongatus* Mannh. occurs in Alaska (Hamilton).

159. *Mordella borealis* Lec.

Nain, one specimen. "Just like the specimen in my collection fished out of Lake of the Clouds, Mt. Washington, N. H." (Blanchard); Newfoundland: Little Codroy River, coast plain (Bolster).

160. *Lepyryus palustris* Scopoli. (= *colon* Linn.)

Cape Chidley (R. Bell, Packard); Ungava Bay (Turner: Schwarz list). Summit of Mt. Washington, N. H., apline (Bowditch); Hudson Bay, New Mexico, northern Wisconsin, Europe, and western Siberia (Hamilton).

161. *Pachylobius picivorus* Germ.

Ungava Bay (Turner: Schwarz list); Mt. Washington, N. H. (Bowditch).

162. *Hypomolyx piceus* DeG. (= *pineti* Fabr.)

West St. Modest, two; Hopedale, one. Mt. Washington, N. H. (Bowditch); Lake Superior, Hudson Bay, central and northern Europe, Siberia (Hamilton); Newfoundland: coast plain, Little Codroy River (Bolster).

163. *Pissodes?* sp.?

Hopedale (Packard). Possibly the preceding species.

164. *Notaris (Erycus) æthiops* Fabr. (= *morio* Mannh.)

West St. Modest, half a dozen. White Mountains, N. H., Mag-

dalen Island (Blanchard); Newfoundland: coast plain of Little Codroy River (Bolster); Alaska, Vancouver, Manitoba, Great Slave Lake; northern Europe, Siberia, the Amur (Hamilton).

165. *Dendroctonus borealis* Hpk. (= *rufipennis* Mannh.)

Mr. Schwarz writes: "Your Labrador *Dendroctonus* has been determined by Dr. Hopkins as *borealis* Hpk., a species of great interest in regard to geographical distribution, since it was recorded previously only from the north Pacific coast." Alaska: Eagle, and Kenai.

166. *Dendroctonus terebrans* Oliv.

Ungava Bay (Turner: Schwarz list); "Determination after Hopkins's monograph" (Schwarz). New Hampshire to Georgia (Hopkins).

ADDENDA.

Two small lots of Labrador beetles received from Red Bay this summer contain examples of three species not mentioned in the foregoing list. The species are:

167. *Tachinus parallelus* Horn.

One specimen, male, "smaller than my females from Mt. Washington" (Blanchard). This species is on the Bowditch list of Mt. Washington species. Mr. Blanchard remarks that *Tachinus elongatus* Gyll., a European species, recorded from Alaska also, must be very near *parallelus* Horn.

168. *Neomysia subvittata* Muls.

Two specimens. "A new variety, which does not agree exactly with Mulsant's description, nor with either of the two forms described by Casey" (Leng).

169. *Hylobius confusus* Kirby.

One specimen, Red Bay. Mt. Washington, N. H. (Bowditch list), Alaska, Lake Superior, New York, Massachusetts (Hamilton).