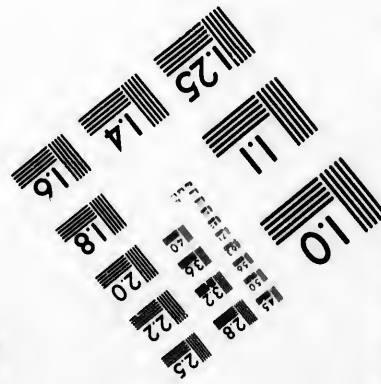
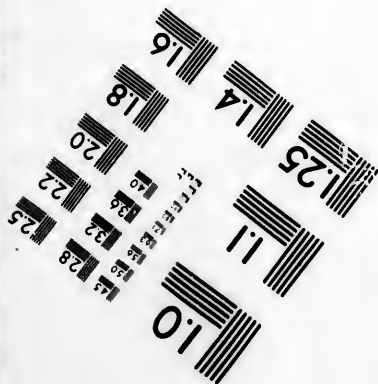
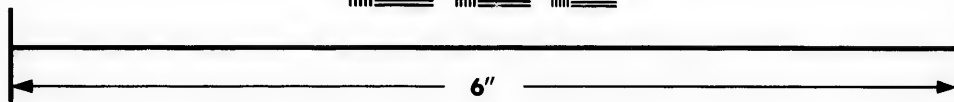
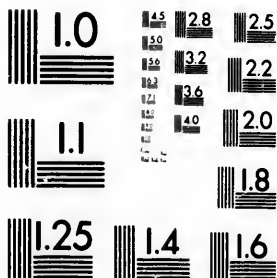


**IMAGE EVALUATION  
TEST TARGET (MT-3)**



**Photographic  
Sciences  
Corporation**

23 WEST MAIN STREET  
WEBSTER, N.Y. 14580  
(716) 872-4503

15 28  
18 32 25  
22  
20  
18

**CIHM/ICMH  
Microfiche  
Series.**

**CIHM/ICMH  
Collection de  
microfiches.**



**Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques**

10

**© 1981**

Technical and Bibliographic Notes/Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

- Coloured covers/  
Couverture de couleur
- Covers damaged/  
Couverture endommagée
- Covers restored and/or laminated/  
Couverture restaurée et/ou pelliculée
- Cover title missing/  
Le titre de couverture manque
- Coloured maps/  
Cartes géographiques en couleur
- Coloured ink (i.e. other than blue or black)/  
Encre de couleur (i.e. autre que bleue ou noire)
- Coloured plates and/or illustrations/  
Planches et/ou illustrations en couleur
- Bound with other material/  
Relié avec d'autres documents
- Tight binding may cause shadows or distortion  
along interior margin/  
La reliure serrée peut causer de l'ombre ou de la  
distortion le long de la marge intérieure
- Blank leaves added during restoration may  
appear within the text. Whenever possible, these  
have been omitted from filming/  
Il se peut que certaines pages blanches ajoutées  
lors d'une restauration apparaissent dans le texte,  
mais, lorsque cela était possible, ces pages n'ont  
pas été filmées.
- Additional comments:/  
Commentaires supplémentaires:

- Coloured pages/  
Pages de couleur
- Pages damaged/  
Pages endommagées
- Pages restored and/or laminated/  
Pages restaurées et/ou pelliculées
- Pages discoloured, stained or foxed/  
Pages décolorées, tachetées ou piquées
- Pages detached/  
Pages détachées
- Showthrough/  
Transparence
- Quality of print varies/  
Qualité inégale de l'impression
- Includes supplementary material/  
Comprend du matériel supplémentaire
- Only edition available/  
Seule édition disponible
- Pages wholly or partially obscured by errata  
slips, tissues, etc., have been refilmed to  
ensure the best possible image/  
Les pages totalement ou partiellement  
obscurcies par un feuillet d'errata, une pelure,  
etc., ont été filmées à nouveau de façon à  
obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/  
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	14X	18X	22X	26X	30X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12X	16X	20X	24X	28X	32X

The copy filmed here has been reproduced thanks to the generosity of:

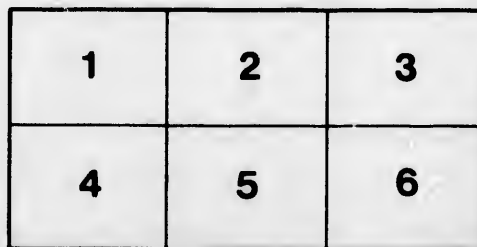
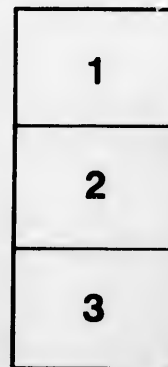
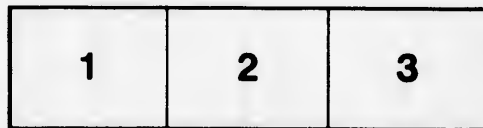
Library Division  
Provincial Archives of British Columbia

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol  $\rightarrow$  (meaning "CONTINUED"), or the symbol  $\nabla$  (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:



L'exemplaire filmé fut reproduit grâce à la générosité de:

Library Division  
Provincial Archives of British Columbia

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole  $\rightarrow$  signifie "A SUIVRE", le symbole  $\nabla$  signifie "FIN".

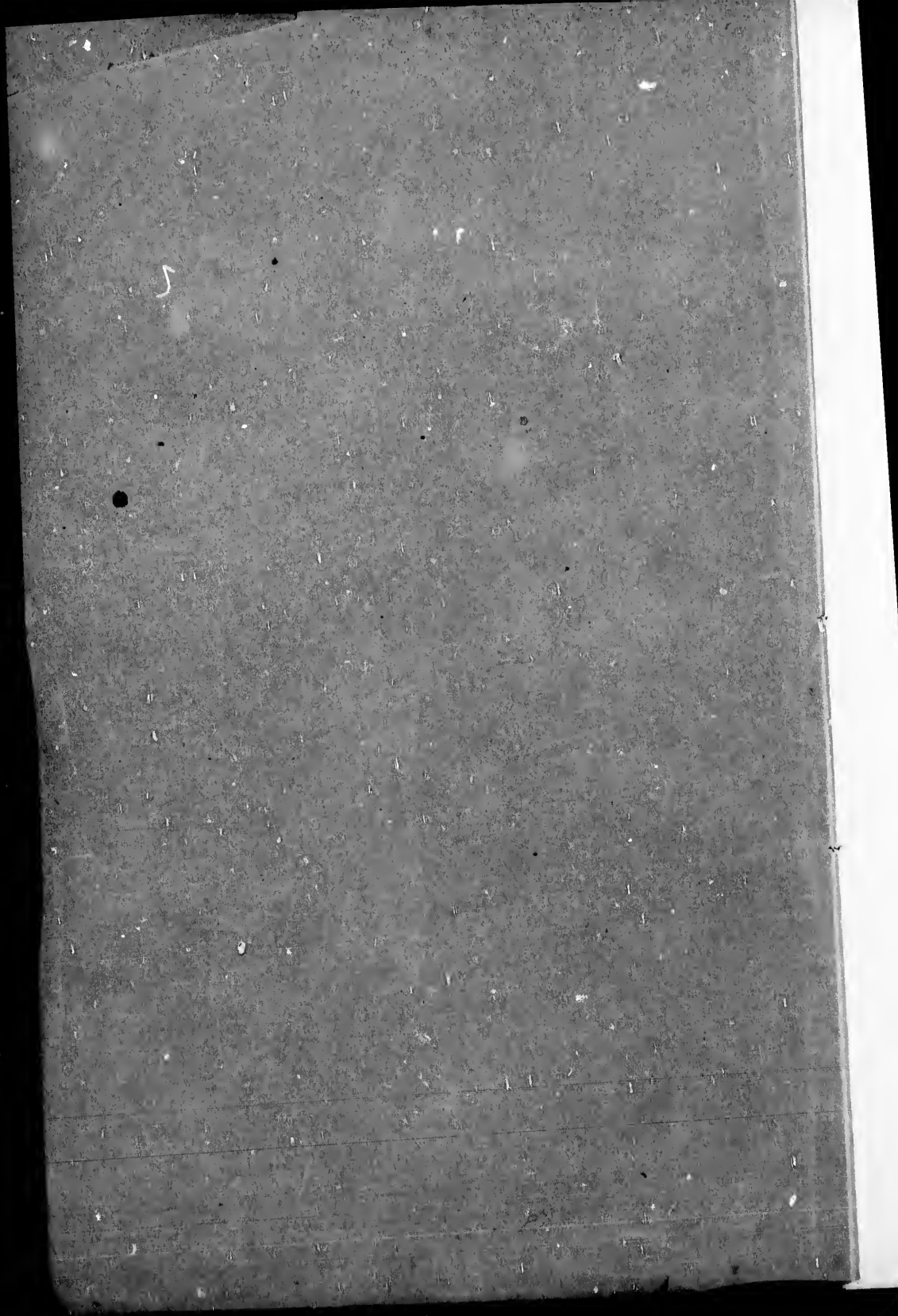
Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.

ails  
du  
odifier  
une  
page

rrate  
o

elure,  
n à

32X



From 'THE IRIS' for NOVEMBER 1868.

---

*J. Newcombe*  
*with compl.*

*HBK*

---

*Nov. 17/94.*

## SYNOPSIS

OF THE

## BIRDS OF VANCOUVER ISLAND.

BY

ROBERT BROWN, F.R.G.S.

230065

---

I PROPOSE in the following paper to submit, in the form of a synoptical list, the present state of our knowledge of the Ornithology of Vancouver Island on the north-west coast of America, lying between latitude  $48^{\circ} 16'$  and  $50^{\circ} 58'$  N., and longitude  $128^{\circ} 25'$  and  $123^{\circ} 15'$  W. In general character the island is mountainous and densely covered with pine-forests, while many smaller islands lie off the coast, which is indented by numerous bays and inlets, the interior being intersected everywhere with rivers and lakes.

I have devoted myself to ornithology at various intervals during portions of nearly four years spent in the islands or the neighbouring territories (as Commander and Government Agent of the Vancouver-Island Exploring Expedition, and Botanist of the British-Columbia Expedition), paying in the course of that period every year a visit of longer or shorter duration to the colony. The summer of 1864 I spent wholly in the island, engaged in exploring the then unknown interior.

x While drawing for the most part on original material, I have not neglected what little has been written upon the birds of the country\*. Mr. P. L. Sclater has given (P. Z. S. 1859, pp. 235-237) a list of thirty-five species, collected by Captain Prevost. This list contains five species of which I never heard as Vancouver-Island birds: four of them I know as denizens of the mainland; but the fifth (*Oreortyx pictus*) I cannot, without

\* 'Exploration of Vancouver Island,' 1864. 8vo (Colonial Blue Book); Proc. Roy. Geogr. Soc. 1865; Petermann's 'Geographische Mittheilungen,' &c. &c.

further evidence, look upon as having been obtained on the coast, to which alone in Vancouver Island Capt. Prevost's investigations extended. His ship was, however, at times lying off the shores of the mainland; and it is more than probable that these species were collected at various points, though vaguely described as being "from Vancouver Island." It is only out of respect to so high an authority as Mr. Scater, and to so distinguished an officer as Capt. Prevost, that I have retained these species in this list, marking them with a "¶". Dr. Charles Forbes, R.N., in the appendix to his pamphlet entitled a 'Prize Essay on Vancouver's Island as a Field for Emigration'\* , has printed a short list of the birds; but this list is very imperfect, and almost inaccessible to students of ornithology. Mr. J. K. Lord, while Zoologist of the North-west Boundary Commission, made various visits of considerable duration to Vancouver Island, and in his work † has added not a little to our knowledge of the birds of the island; but as he has only professed to give a general sketch of the zoology of North-west America, he can scarcely be blamed for occasional looseness as to localities. I have, however, inserted on his authority fourteen species, marked with a dagger (+), which I was not aware were natives of the island, though common on the mainland. The above, meagre as it is, comprehends all that has been published in any way affecting our knowledge of the species inhabiting the country in question. The late Dr. Wood, R.N., contributed a few paragraphs on the Birds of Vancouver Island and British Columbia to Capt. Mayne's 'Four Years in British Columbia' (pp. 416-18); but I have not touched upon them, as the account will manifestly not admit of criticism.

During my various visits to and explorations of Vancouver Island I lost no opportunity of studying its ornithology; and though often unable to convey any specimens over the almost impenetrable wilds which it was my duty to traverse, I made full notes of the species, and resolved my doubts on return to civilization. I also examined every local collection of which I could

\* Victoria, V. I.: 1862.

† The Naturalist in British Columbia and Vancouver Island. London: 1866.



hear; and particularly I received much assistance from my friend Mr. James Hepburn, a gentleman who has spent many years in collecting the birds of the North Pacific, and whose knowledge is only equalled by his liberality in imparting it to his less fortunate brother naturalist. His princely (for no other term will designate it) collection is now in San Francisco, and I trust that he will by-and-by favour us with an extended account of North-Pacific ornithology; but in the meantime this synopsis, which owes all that is most original in it to his notes, may stand as a contribution to zoogeography, which can alone proceed on a sure basis by the collection of local faunas.

It would, however, be out of place, in the present state of our knowledge of the avifauna of the island, to attempt anything like an analysis of the geographical distribution of the elements which compose it, for in a few years this would require to be done over again; and as this list is manifestly imperfect (though complete according to our present acquaintance), no good purpose could be served thereby. Many of the birds are common to the whole American continent, and some are even European; most of them are already known as more southern members of the Pacific-coast fauna, while several, as noted in the list, are now recorded for the first time from the west of the Rocky Mountains. The interior of the island is very bare of bird-life, the gloomy pine-forests permitting few or no plants (on the seeds of which many of the insessorial species feed) to grow under their shade. However, an occasional bird is seen by the shores of the beautiful lakes and rivers which we came across in our exploration; while Grouse might be heard drumming in nearly every portion of the country, and the tapping of the Woodpecker is often for days the only sound (save the cry of the Heron and the noise of the Geese and Ducks which resort for breeding-purposes to the solitary inland waters) to break the stillness of these lonely and sombre forests. In the winter most of these lakes are frozen over, and continue so until early in the summer. During this period the water-birds resort in countless numbers to the quiet inlets and bays on the coast, but particularly to the marshy lands at the mouths of many of the rivers, such as the Somass, the Sooke, Nempish, or the Cowichan. It is on the

coast, however, that any great addition to our avifauna may be expected. I have divided this synopsis into two portions :—1st, a list of birds known to exist in the Island ; and, 2ndly, a list of species known to inhabitants of the neighbouring mainland of Washington territory and British Columbia, which species being reasonably considered to be in all likelihood also members of the Vancouver-Island fauna, ought to be looked for. Most of the domestic fowls of England and the United States are, of late years, to be found in the farm-yards of the southern portion of the island.\* The Californian Quail (*Lophortyx californicus*) has been set free in the district near Metchosin, with a view to add to the game-birds of the island, but, so far as I can learn, it is not prospering very well.† I may also mention, in connexion with this subject, that the English Rabbit (*Lepus cuniculus*) has also been introduced into the same district, and will most likely increase rapidly.

I have prefaced my list of the known birds of Vancouver Island by a table showing at a glance the tribal, generic, and specific distribution of the avifauna ; and this table saves me the necessity of introducing further systematic details. From this it will appear that the known avifauna of Vancouver Island comprehends 153 species, extending over six orders, thirty-eight primary tribes, and one hundred and eighteen genera. The statistics of the species, genera, and tribes in these orders may be stated as follows :—

Orders.	Tribes.	Genera.	Species.
1. Raptores . . . .	3	12	14
2. Scansores . . . .	1	4	6
3. Insessores . . . .	17	51	66
4. Rasores . . . . .	3	5	5
5. Grallatores . . . .	7	16	18
6. Natatores . . . . .	7	30	44
	38	118	153

The species are arranged according to Prof. Spencer F. Baird's well-known 'Birds of North America;' and a reference to that work saves all necessity of swelling the limits of this list (which is only intended as a guide to future collectors) by inserting descrip-

tions of the species, their synonymy, distribution, or habits. I have, however, occasionally added an explanatory note on some of these subjects, and in one case (that of *Leucosticte griseinucha*) an original description. The local name, or, where the bird is not sufficiently common to have obtained one, the general popular name is added, for the benefit of local collectors. The list of probable members of the fauna numbers sixty-two species; and I confidently expect to see the greater portion of this cancelled, as well as other species not in it added, within a few years. Though some of the species entered there are now removed by this list, yet I may still take the liberty of referring the student to a "List of Birds hitherto reported from the North-west Part of America, but of which no specimens have been procured by recent explorers," in the admirable 'Natural History of Washington Territory' by Drs. Cooper and Suckley\* (pp. 288-289), to which, as well as the works of Mr. Lord, Townsend †, Nuttall §, and the papers and works cited in the Bibliographical Appendix to Prof. Baird's book, I have much pleasure in referring for more extended details.

I. *Birds inhabiting or frequenting Vancouver Island.*

- †1. CATHARTES AURA (L.). Turkey-Buzzard.
2. FALCO NIGRICEPS, Cass. Western Duck-Hawk.
3. FALCO COLUMBARIUS, L. Pigeon-Hawk.
4. FALCO SPARVERIUS, L. Sparrow-Hawk.
5. ACCIPITER FUSCUS (Gm.). Sharp-shinned Hawk.
6. BUTEO MONTANUS, Nutt. Western Redtail.
7. CIRCUS HUDSONIUS, L. Harrier; Marsh-Hawk.
8. HALIAETUS LEUCOCEPHALUS (L.). White-headed Eagle.
9. PANDION CAROLINENSIS (Gm.). Fish-Hawk; American Osprey.

\* New York: 1859.

† Narrative of a Journey over the Rocky Mountains, &c. Philadelphia: 1839.

§ 'Manual of the Ornithology of the United States and of Canada,' 2nd ed. Boston: 1840.

10. *BUBO VIRGINIANUS* (Gm.). Great Horned Owl.
11. *SCOPS ASIO* (L.). Screech or Mottled Owl.
12. *NYCTALE ACADICA* (Gm.). Sawwhet Owl.
13. *GLAUCIDIUM GNOMA*, Wagler. Pigmy Owl.
14. *NYCTEA NIVEA* (Laud.). Snowy Owl.
15. *PICUS HARRISI*, Aud. Harris's Woodpecker.
16. *PICUS GAIRDNERI*, Aud. Gairdner's Woodpecker.
17. *SPHYROPICUS RUBER* (Gm.). Red-breasted Woodpecker.
18. *SPHYROPICUS VARIUS* (L.). Yellow-bellied Woodpecker.
19. *COLAPTES MEXICANUS*, Swains. Red-shafted Flicker.
20. *HYLATOMUS PILEATUS* (L.). Logcock.
21. *SELASPHORUS RUFUS* (Gm.).

The Red-backed Humming-bird is very common as far north as Sitka in "Russian America" (Alaska), where it is said to be abundant. It appears in the vicinity of Victoria, Vancouver Island, from the end of March to the beginning of May, according to the state of the season. It builds its nest on the tips of low bushes, or the under branches of trees, and can be seen all through the summer flitting about from flower to flower (particularly the bright scarlet blossoms of *Ribes sagineum*, &c.), not in search of honey, but of the insects which harbour there. The Indian boys at Fort Rupert used to capture them with a sort of bird-lime made of the slime of a species of *Limax* found there. In popular opinion there are two species in the island, the bright hues of the male being so different from the homelier plumage of the female. Though several species frequent the region on the other side of the Cascade Mountains, yet, as far as I am aware, the species in question is the only one to the west of that range.

22. *CHORDILES POPETUE* (Vieill.). Night-Hawk ; Bull-Bat ; Goatsucker ; Pisk ; Mosquito-Hawk.

23. *CERYLE ALCYON* (L.). Belted Kingfisher.

+24. *TYRANNUS VERTICALIS*, Say. Arkansas Flycatcher.

*Carolinensis*

25. TYRANNUS ~~VERTICILLIS~~<sup>cardinensis</sup>, Baird\*. King-bird; Bee-Martin.
26. CONTOPUS RICHARDSONI (Swains.). Short-legged Peewee.
27. CONTOPUS BOREALIS (Swains.). Olive-sided Flycatcher.
28. EMPIDONAX PUSILLUS (Swains.). Little Peewee.
29. TURDUS USTULATUS, Nutt. Western Thrush.
30. TURDUS MIGRATORIUS, L. Robin.
31. TURDUS NÆVIUS, Gm. Painted Robin.
32. SIALIA MEXICANA, Swains. Western Blue-bird.
33. REGULUS CALENDULA (L.).  
The Ruby-crowned Wren is only a summer visitant at Fort Rupert.
34. REGULUS SATRAPA, Licht. Golden-crested Wren.
35. HYDROBATA MEXICANA (Swains.). Water-Ouzel or Water-Crow; Dipper.
36. ANTHUS LUDOVICIANUS (Gm.). American Titlark.
37. GEOTHLYPIS MACGILLIVRAYI (Aud.). Western Yellow-throat.
- †38. GEOTHLYPIS TRICHAS (L.). Maryland Yellow-throat.
39. HELMINTHOPHAGA CELATA (Say). Orange-crowned Warbler.
40. DENDRÆCA AUDUBONI (TOWNS.). Audubon's Warbler.
41. DENDRÆCA ÆSTIVA (Gm.). Yellow Warbler.
42. DENDRÆCA CORONATA (L.). Yellow-rumped Warbler.  
Both the species last named are common at Fort Rupert in June.
43. PYRANGA LUDOVICIANA (Wils.). Louisiana Tanager.
44. HIRUNDO HORREORUM, Barton. Barn-Swallow.  
Seen at Fort Rupert in May 1866.
45. HIRUNDO BICOLOR, Vieill. White-bellied Swallow.

[~~†~~—*Of the same species as the preceding?*—ED.]

46. *HIRUNDO THALASSINA*, Swains. Violet-green Swallow.  
Builds in knot-holes in trees.
47. *COTYLE SERRIPENNIS* (Aud.). Rough-winged Swallow.  
As far north as Fort Rupert in May.
48. *CHÆTURA VAUXI* (Towns.).
- †49. *NEPHOCETES NIGER* (Gm.).  
The Northern Swift I place in this list wholly on the authority of the specimen said to have been got by Capt. Prevost. I had not known it hitherto in Vancouver Island, though it is common enough in Puget Sound.
50. *AMPELIS CEDRORUM* (Vieill.).  
The Cedar-bird is common at Fort Rupert in early summer.
51. *VIREO GILVUS* (Vieill.). Warbling Flycatcher.
52. *VIREO SOLITARIUS* (Wils.). Blue-headed Flycatcher.
53. *TROGLODYTES PARKMANNI*, Aud. Parkman's Wren.
54. *TROGLODYTES HYEMALIS*, Vieill. Winter-Wren.
- †55. *SALPINCTES OBSOLETUS* (Say). Rock-Wren.  
Had not so good an authority as Mr. Lord recorded this as a Vancouver-Island bird, I should have doubted, with Prof. Baird, its being found on the coast, as it is an inland species.
- †56. *THRYOTHORUS BEWICKI* (Aud.). Bewick's Wren:
57. *SITTA ACULEATA*, Cass. Slender-bill Nuthatch.
58. *SITTA PYGMÆA*, Vigors. Californian Nuthatch.
59. *SITTA CANADENSIS*, Linn. Canada Nuthatch.
- †60. *CERTHIA AMERICANA*, Bonap. American Creeper.
61. *PARUS RUFESCENS*, Towns. Chestnut-backed Titmouse.
- †62. *EREMOPHILA CORNUTA* (Wils.). Shore-Lark.
63. *CARPODACUS CALIFORNICUS*, Baird. Western Purple-Finch.
64. *CHRYSOMITRIS PINUS* (Wils.). Pine-Finch.
65. *CURVIROSTRA AMERICANA*, Wils. Red Crossbill.
66. *ÆGIOTHUS LINARIA* (L.). Lesser Redpoll.

67. *LEUCOSTICTE GRISEINUCHA*, Brandt, Bull. Acad. St. Pétersb. 1841, p. 36.

I am only acquainted with this rare bird from a single male specimen killed at Fort Rupert in June 1862 by Mr. P. N. Compton, the officer in charge of that establishment. This Finch has hitherto been known merely as an inhabitant of the Aleutian Islands and neighbourhood; and as Prof. Baird only quotes Bonaparte's description, I append the following notes taken from Mr. Compton's specimen:—

Throat rather dark brown, but not yet *black* as Bonaparte describes it. Forehead blackish. Nasal feathers white. Cheeks and back of neck grey. Interscapular region and breast chestnut-brown, the feathers narrowly bordered with ferruginous; sides and abdomen brown, margined with rose-colour. Wing-coverts and upper and under tail-coverts broadly margined with rose-colour. All the feathers of the wings, with the exception of the outer ones, slightly margined with white. Bill yellow, with blackish tip. Legs and feet black; middle toe longest; tibial feathers lightish brown. I am doubtful if it is different from *L. tephrocotis* (Sw.), which is also a British-Columbian bird.

Mr. Compton has also informed me that he had seen another Finch with a scarlet head and throat, with spots of yellow and blackish brown on the wings, but failed to obtain a specimen.

68. *PASSERCULUS SANDWICHIENSIS* (Gm.). Large Savannah-Sparrow.

69. *ZONOTRICHIA GAMBELI*, Nutt. Gambel's Sparrow.

70. *ZONOTRICHIA CORONATA* (Pall.). Golden-crowned Sparrow.

71. *JUNCO OREGONUS* (TOWNS.). Oregon Snow-bird.

72. *SPIZELLA SOCIALIS* (Wils.). Chipping Sparrow.

73. *MELOSPIZA RUFINA* (Brandt)\*. Western Song-Sparrow.

74. *PASSERELLA TOWNSENDI* (Aud.). Townsend's Fox-Sparrow.

\* Mr. Sclater inserts, with a note of interrogation, *Melospiza fallax*, Baird, as being among Capt. Prevost's birds; but I have little doubt that it was the above.

†75. *CYANOSPIZA AMÆNA* (Say). Lazuli-Finch.

76. *GUIRACA MELANOCEPHALA*, Swains. Black-Headed Grosbeak.

77. *PINICOLA CANADENSIS* (Brehm). Canadian Grosbeak.

Hitherto not known on the Pacific coast. During the winter of 1866, whilst snow was lying on the ground, two pairs (males and females) were shot at Fort Rupert.

78. *STURNELLA NEGLECTA*, Aud. Western Meadow-Lark.

†79. *SCOLECOPHAGUS CYANOCEPHALUS* (Wagler). Brewer's Blackbird.

80. *AGELÆUS PHÆNICEUS* (L.). Red-winged Blackbird.

¶81. *XANTHOCEPHALUS ICTEROCEPHALUS* (Bonap.). Yellow-Headed Blackbird.

82. *CORVUS CARNIVORUS*, Barton. American Raven.

83. *CORVUS CAURINUS*, Baird. North-western Fish-Crow.

84. *CYANURA STELLERI* (Gm.). Steller's Jay.

85. *PERISOREUS CANADENSIS* (L.). Whiskey-Jack.

†86. *PICA HUDSONICA* (Sabine). Magpie.

I have not seen this bird myself in Vancouver Island; but I have often heard old settlers say that it has been seen near Victoria. It is common as far north as Sitka, and possibly further.

87. *COLUMBA FASCIATA*, Say. Bar-tailed Pigeon.

I am assured, by the Hudson's-Bay officers who have stayed for several years at Fort Simpson (British Columbia) and have paid considerable attention to ornithology, that this bird is not found so far north, and probably does not go north of Millbank Sound.

88. *ZENAIDURA CAROLINENSIS* (L.). Carolina or Common Dove.

89. *TETRAO OBSCURUS*, Say. Blue or Pine-Grouse.

This is certainly not the bird figured under this name in the 'Fauna Boreali-Americana' (vol. ii. pl. 59), which does not



range over the Rocky Mountains. I have examined specimens of both in Sir W. Jardine's Collection, with the benefit of his extensive knowledge, and can speak positively on the subject\*.

90. *BONASIA SABINII* (Dougl.). Partridge; Ruffed Grouse; Pheasant.

¶91. *OREORTYX PICTUS* (Dougl.). Mountain-Quail.

I insert this here on the authority of Capt. Prevost's Collection; but its existence in Vancouver Island is exceedingly problematical, as it is not a bird of the coast-slopes of the Cascades at all, and certainly not of the district to which collectors have hitherto confined their researches.

92. *GRUS CANADENSIS* (L.). Sandhill-Crane.

93. *ARDEA HERODIAS*, L. Blue Heron or Crane.

†94. *BOTAURUS LENTIGINOSUS* (Mont.). Bittern; Stake-driver.

95. *APHRIZA VIRGATA* (Gm.). Surf-bird.

96. *HÆMATOPUS NIGER*, Pall.

Bachman's Oystercatcher is not a common bird in the southern portion of the island, but much more numerous in the north. About Queen Charlotte's Islands it is very plentiful. In March 1866, while rowing along the narrow sounds among these islands, we often saw it. It would sit on the rocks until we could almost touch it; then, uttering a low whistling cry, it would dart off to another skerry, repeating the same manœuvre over and over again.

97. *STREPSILAS MELANOCEPHALUS*, Vig. Black-headed Turnstone.

†98. *PHALAROPUS HYPERBOREUS* (L.). Lobefoot.

\* [That there are two nearly-allied species of this form of Grouse (which has been generically separated by Mr. Elliot as *Dendragapus*) seems now to be generally admitted; but it is a question to which the names *Tetrao obscurus*, Say, and *T. richardsoni*, Douglas, respectively belong—Mr. G. R. Gray, in his recent 'List' of *Gallinae*, taking a different view of the case from that of Mr. Elliot (*cf. Ibis*, 1866, p. 213).—Ed.]

99. *GALLINAGO WILSONI* (Temm.). Wilson's Snipe; "English Snipe."
100. *TRINGA ALPINA*, L., var. *AMERICANA*, Cass. Red-backed Sandpiper; Ox-bird.
101. *TRINGA WILSONI*, Nutt. Wilson's Sandpiper.
102. *EREUNETES PETRIFACTUS*, Illig. Semipalmated Sandpiper.
103. *GAMBETTA MELANOLEUCA* (Gm.). Telltale Tattler; Stone-Snipe; Yellow-legged Tattler.
104. *HETEROSCELUS BREVIPES* (Vieill.). Wandering Tattler.
105. *LIMOSA FEDOA* (L.). Marbled Godwit.
106. *NUMENIUS HUDSONICUS*, Lath. Short-billed Curlew.
107. *NUMENIUS LONGIROSTRIS*, Wils. Long-billed Curlew.
108. *FULICA AMERICANA*, Gm. Coot; Mud-hen.
- ¶109. *MACRORHAMPHUS GRISEUS* (Gm.). Grey Snipe.
110. *CYGNUS AMERICANUS*, Sharpless. Whistling Swan.
- †111. *CYGNUS BUCCINATOR*, Rich. Trumpeter Swan.
112. *ANSER HYPERBOREUS*, Pall. Snow-Goose.
113. *ANSER GAMBELI*, Hartlaub. Laughing Goose; White-fronted Goose.
114. *BERNICLA CANADENSIS* (L.). Common Wild or Canada Goose.
115. *BERNICLA LEUCOPARIA* (Brandt).
116. *BERNICLA HUTCHINSI* (Rich.). Hutchins's Goose.
117. *BERNICLA NIGRICANS* (Lawrence). Black Brant.
- I saw one of these Geese stalking about the Nuchultaw Indians' village in Discovery Passage, in March 1866, apparently quite tame. It is the "Nulla" of the Quakwolths, who had one also tamed in the village at Fort Rupert.
118. *ANAS BOSCHAS*, L. Mallard; Green-head.
119. *DAFILA ACUTA* (L.). Pintail; Sprig-tail.

120. *NETTIUM CAROLINENSE* (Gm.). Green-winged Teal.
121. *CHAULELASMUS STREPERUS* (L.). Gadwall; Grey Duck.
122. *MARECA AMERICANA* (Gm.). Widgeon; Bald-pate.
123. *FULIX MARILA* (L.). Scaup-Duck; Big Black-head; Broad-bill.
124. *FULIX COLLARIS* (Donovan). Ring-necked Duck.
125. *ÆTHYIA VALISNERIA* (Wils.). Canvas-back.
126. *ÆTHYIA AMERICANA* (Eyton). Red-Head.
127. *BUCEPHALA AMERICANA* (Bonap.). Golden-eye; Whistle-wing.
128. *BUCEPHALA ALBEOLA* (L.). Butter-ball; Buffle-head.
129. *HISTRIONICUS TORQUATUS*, Bonap. Harlequin Duck.
130. *HARELDA GLACIALIS* (L.). Old-squaw; Long-tail; South-southerly.
131. *MELANETTA VELVETINA* (Cass.). White-winged Coot.
132. *PELIONETTA PERSPICILLATA* (L.). Surf-Duck; Sea-Coot.
133. *EDEMIA AMERICANA*, Swains. Scoter.
134. *MERGUS AMERICANUS*, Cass. Sheldrake; Gosander.
135. *MERGUS SERRATOR*, L. Red-breasted Merganser.
136. *LOPHODYTES CUCULLATUS* (L.). Hooded Merganser.
137. *GRACULUS VIOLACEUS* (Gm.). Violet-green Cormorant.
- +138. *GRACULUS DILOPHUS*, Sw. Double-crested Cormorant.
139. *PELECANUS FUSCUS*, L. Brown Pelican.
140. *DIOMEDEA BRACHYURA*, Temm. Short-tailed Albatros.
141. *LARUS GLAUDESCENS*, Lichtenstein. Glaucous-winged Gull.
142. *LARUS SUCKLEYI*, Lawrence. Suckley's Gull.
143. *BLASIPUS HEERMANNI* (Cass.). (*Larus belcheri*, Vig.) White-headed Gull.

144. *COLYMBUS TORQUATUS*, Brünn. Great Northern Diver ; Loom.

145. *COLYMBUS PACIFICUS*, Lawrence. American Black-throated Diver.

146. *COLYMBUS SEPTENTRIONALIS*, L. Red-throated Diver.

147. *PODICEPS OCCIDENTALIS*, Lawrence. Western Grebe.

148. *PODICEPS GRISEOGENA* (Boddaert). Red-necked Grebe.

149. *PODICEPS CORNUTUS* (Gm.). Horned Grebe.

150. *MORMON CIRRHATUS* (Pall.).

Tufted Puffins are found as far north as Fort Simpson, where the Indians trim their dancing-leggings with their beaks.

151. *CERATORHINA MONOCERATA* (Pall.).

The Horn-billed Guillemot is common at times at Fort Rupert, and is known as far north as Fort Simpson.

152. *URIA COLUMBA* (Cassin). Western Guillemot.

153. *BRACHYRHAMPHUS MARMORATUS* (Gm.). Marbled Auk.

II. *Birds which ought to be looked for within the Vancouver-Island limits, being in all probability either residents of, or visitants to the Islands.*

*Accipiter cooperi*, Bp.

*A. mexicanus*, Sw.

*Archibuteo lagopus* (Gm.).

*A. ferrugineus* (Licht.).

*Otus wilsonianus*, Less.

*Brachyotus cassini*, Brewer.

*Syrnium cinereum* (Gm.).

*Picoides hirsutus* (Vieill.).

*Sayornis sayus* (Bp.).

*Empidonax acadicus* (Gm.).

*E. flaviventris*, W. & S. F. Baird.

*Turdus pallasi*, Cab.

*Dendroæca occidentalis* (Towns.).

*D. townsendi* (Nutt.).

*D. nigrescens* (Towns.)

*Dendroæca coronata* (L.).

*D. maculosa* (Gm.).

*Myiodytes pusillus* (Wils.).

*Cotyle riparia* (L.).

*Progne purpurea* (L.).

*Hirundo lunifrons*, Say.

*Collyrio borealis* (Bp.).

*Cistothorus palustris* (Wils.).

*Parus occidentalis*, Baird.

*P. montanus*, Gambel.

*Psaltroparus minimus* (Towns.).

*Carpodacus cassini*, Baird.

*Chrysomitris tristis* (L.).

*Passerculus savanna* (Wils.).

*P. alaudinus*, Bp.

- |   |                                      |
|---|--------------------------------------|
| <i>Poœcetes gramineus</i> (Gm.).        | <i>Spatula clypeata</i> (L.).        |
| <i>Zonotrichia albicollis</i> (Gm.).    | <i>Aix sponsa</i> (L.).              |
| <i>Spizella breweri</i> (Aud.).         | <i>Fulix affinis</i> (Eyton).        |
| <i>Melospiza lincolni</i> (Aud.).       | <i>Bucephala islandica</i> (Gm.).    |
| <i>Corvus americanus</i> , Aud.         | <i>Erismatura rubida</i> (Wils.).    |
| <i>Tetrao franklini</i> , Dougl.*       | <i>Larus argentatus</i> , Brünn.     |
| <i>Lagopus rupestris</i> (Gm.)*.        | <i>L. occidentalis</i> , Aud.        |
| <i>Nyctiardea gardeni</i> (Gm.).        | <i>L. californicus</i> , Lawr.       |
| <i>Ægialitis vociferus</i> (L.).        | <i>L. delawarensis</i> , Ord.        |
| <i>Squatarola helvetica</i> (L.).       | <i>Chroicocephalus philadelphia</i>  |
| <i>Streptilas interpres</i> (L.).       | (Ord).                               |
| <i>Tringa maculata</i> , Vieill.        | <i>Rissa septentrionalis</i> , Lawr. |
| <i>Calidris arenaria</i> (L.).          | <i>Podiceps cristatus</i> (L.).      |
| <i>Gambetta flavipes</i> (Gm.).         | <i>Podilymbus podiceps</i> (L.).     |
| <i>Rhyacophilus solitarius</i> (Wils.). | <i>Ceratorhina suckleyi</i> , Cass.  |
| <i>Querquedula discors</i> (L.).        | <i>Brachyrhamphus temmincki</i> ,    |
| <i>Q. cyanoptera</i> (Vieill.).         | Brandt.                              |

\* Both these may be found, I should think, about the snowy mountains we saw in the interior of the northern portion of the island.

