

NOTES ON THE MYCETOPHILIDÆ OF BRITISH COLUMBIA

By R. S. Sherman.

From a common *Agaricus*, or gill-bearing fungus, gathered on Nov. 4th, there emerged on Nov. 24th over fifty specimens of *Mycetophila monochæta*. From similar fungi gathered on Nov. 18th there emerged on Dec. 12th, a numerous brood of *Bolitophila cinerea* Meig. From fungi gathered on Dec. 16th, there emerged on Jan. 3rd to Jan. 5th, a large brood of *Exechias*. From another fungus gathered on the same date I obtained a few specimens of *Rhymosia*- sp., on Jan. 17th.

The pupal stage of the *Exechias* emerging on Jan. 3rd lasted fifteen days. The larvae of these *Exechias* excavated a cell about two inches below the surface and after weaving a delicate white cocoon soon assumed the pupal form, which could be seen quite plainly through the gauzy covering. It was evident that the mature fly made good use of the strong setae, spines, and spurs, with which its legs are armed, in forcing an outlet to the surface of the soil.

I herewith submit a tentative list of the species of *Mycetophilidæ* found in the Province of British Columbia:

1. *Bolitophila hybrida* Meig. Selkirk Mts.; Stanley Park.
2. *Bolitophila disjuncta* Lw. Vancouver; Caulfields.
3. *Bolitophila montana* Coq. Vancouver.
4. *Bolitophila cinerea* Meig. Vancouver.
5. *Mycetobia divergens* Walk. Victoria.
6. *Palaeoplatyura* sp. Savary Island.
7. *Ditomyia* sp. Savary Island.
8. *Symmerus annulata* Meig. Savary Island.
9. *Diadocidia borealis* Coq. Commonly distributed.
10. *Diadocidia ferruginosa* Meig. Vancouver.
11. *Ceroplatus erminalis* Coq. Kaslo; Royal Oak.
12. *Apemon nigriventris* Jn. Prairie Hill, alt. 5,800 feet.
13. *Platyura mendica* Lw. Savary Island.
14. *Platyura mendosa* Lw. Savary Island.
15. *Platyura moerens* Jn. Savary Island.
16. *Platyura fascipennis* var. *sagax* Jn. Savary Island.
17. *Platyura intermedia* sp. nov. Savary Island.
18. *Macrocera clara* Lw. Savary Island.
19. *Macrocera* sp. nov. Savary Island; Caulfields.
20. *Macrocera* sp. nov. Savary Island.
21. *Monoclona elegantula* Jn. Capilano.
22. *Monoclona furcata* Jn.
23. *Monoclona* sp. nov. Capilano.
24. *Tetragoneura pimpla* Coq. Vancouver; Savary Island.
25. *Tetragoneura arcuata* sp. nov. Caulfields; Stanley Park.
26. *Tetragoneura marceda* sp. nov. Savary Island.

27. *Tetragoneura fallax* sp. nov. Commonly distributed.
28. *Tetragoneura atra* sp. nov. Vancouver; Seymour Creek.
29. *Paratinia vancouverensis* sp. nov. Vancouver.
30. *Polylepta obediens* Jn. Savary Island.
31. *Polylepta* sp. nov.
32. *Dziedzickia fuscipennis* Coq. Kaslo.
33. *Dziedzickia columbiana* sp. nov. Vancouver.
34. *Dziedzickia johannseni* sp. nov. Savary Island.
35. *Dziedzickia rutila* sp. nov. Vancouver.
36. *Dziedzickia occidentalis* sp. nov. Savary Island.
37. *Dziedzickia vernalis* sp. nov. Vancouver.
38. *Mycomya maxima* Johan. Vancouver.
39. *Mycomya mendax* Johan. Selkirk Mts.; Vancouver.
40. *Mycomya brevitittata* Coq. "Originally recorded from B.C."—
41. *Mycomya marginalis* Jn. Selkirk Mts. [Johan.]
42. *Mycomya imitans* Jn. Selkirk Mts.
43. *Mycomya biseriata* Lw. Selkirk Mts.
44. *Mycomya incompta* Jn. Selkirk Mts.
45. *Mycomya simplex* Coq. Vancouver.
46. *Mycomya calcarata* Coq. Savary Island.
47. *Mycomya* (near) *littoralis* Say. Lynn Creek.
48. *Acnemia psylla* Lw. Vancouver.
49. *Rondaniella abbreviata* Lw. Selkirk Mts.
50. *Neuratelia coxalis* Coq. Savary Island.
51. *Neuratelia nemoralis* Meig. Selkirk Mts.
52. *Neuratelia johannseni* sp. nov. Agassiz.
53. *Boletina imitator* Jn. Vancouver.
54. *Boletina melancholica* Jn. Vancouver.
55. *Boletina notescens* Jn. Lynn Creek.
56. *Boletina inops* Coq. Vancouver.
57. *Boletina sobria* Jn. Vancouver.
58. *Boletina auricoma* sp. nov. Savary Island; Stanley Park.
59. *Boletina tenebrosa* sp. nov. Savary Island; Vancouver.
60. *Boletina noctivaga* sp. nov. Savary Island.
61. *Boletina majuscula* sp. nov. Caulfields.
62. *Leia sublunata* Lw. "B.C."
63. *Leia winthemi* Leh. Agassiz.
64. *Leia cernua* sp. nov. Agassiz.
65. *Phthinia curta* Jn. Vancouver.
66. *Phthinia tanypus* Lw. Vancouver.
67. *Phthinia seorsa* sp. nov. Vancouver.
68. *Phthinia vittata* sp. nov. Vancouver.
69. *Coelosia gracilis* Jn. Agassiz.
70. *Coelosia univittata* sp. nov. Savary Island.

71. *Megophthalmidia occidentalis* Jn. Savary Island.
72. *Docosia nigella* (?) Jn. Vancouver.
73. *Anatella silvestris* Jn. Vancouver.
74. *Trichonta dawsoni* (fossil).
75. *Trichonta nigrina* sp. nov. Caulfields.
76. *Cordyla manca* Jn. Vancouver.
77. *Cordyla neglecta* Jn. Vancouver.
78. *Cordyla scita* Jn.
79. *Cordyla* sp. (?)
80. *Rhymosia* sp. b Jn. Selkirk Mts.
81. *Rhymosia filipes* Lw. Vancouver.
82. *Rhymosia imitator* Jn. Vancouver.
83. *Rhymosia pectinata* sp. nov. Savary Island.
84. *Rhymosia brevicornis* sp. nov. Vancouver.
85. *Rhymosia prolixa* sp. nov. Vancouver.
86. *Rhymosia faceta* sp. nov. Savary Island.
87. *Rhymosia seminigra* sp. nov. Vancouver.
88. *Allodia falcata* Jn. Stanley Park.
89. *Allodia bella* Jn. Selkirk Mts.
90. *Allodia auratilis* sp. nov. Savary Island.
91. *Allodia protenta* sp. nov. Vancouver.
92. *Allodia maxima* sp. nov. Vancouver.
93. *Allodia quadrangula* sp. nov. Savary Island.
94. *Phronia incerta* Adams. Selkirk Mts.
95. *Phronia venusta* Jn. Caulfields.
96. *Phronia insulsa* Jn. Savary Island.
97. *Telmaphilus nebulosa* Jn. Stanley Park.
98. *Telmaphilus tenebrosus* Coq. Savary Island.
99. *Telmaphilus* sp. nov.
100. *Exechia perspicua* Jn. Vancouver.
101. *Exechia palmata* Jn. Selkirk Mts.; Vancouver.
102. *Exechia umbratica* Ald. Vancouver.
103. *Exechia nugax* Jn. Vancouver.
104. *Exechia bellula* Jn. Vancouver.
105. *Dynatosoma fulvida* Coq. Selkirk Mts.; Vancouver; Wellington.
106. *Dynatosoma nigrina* Jn. Vancouver Island.
107. *Dynatosoma placida* Jn. Capilano.
108. *Mycothera impellans* Jn. Vancouver.
109. *Mycothera paula* Lw. Columbia River, B.C.; Common on the
110. *Mycothera fenestrata* Coq. Generally distributed. [Coast.
111. *Mycothera* sp. Caulfields.
112. *Mycetophila mutica* Lw. Selkirk Mts.; Vancouver.
113. *Mycetophila vitrea* Coq. "B.C."
114. *Mycetophila scalaris* Lw. Selkirk Mts.

115. *Mycetophila pectita* Jn. Selkirk Mts.
116. *Mycetophila edentula* Jn. Rogers' Pass; Vancouver; Agassiz.
117. *Mycetophila monochaeta* Lw. Vancouver.
118. *Mycetophila lassata* Jn. Vancouver.
119. *Mycetophila imitator* Jn. Vancouver.
120. *Mycetophila extenta* Jn. Vancouver.
121. *Mycetophila punctata* Jn. Vancouver; Victoria.
122. *Mycetophila jugata* Jn. Vancouver.
123. *Mycetophila falcata* Jn. Savary Island; Vancouver.
124. *Mycetophila fatua* Jn. Caulfields; Stanley Park.
125. *Mycetophila foecunda* Jn. Seymour Creek.
126. *Mycetophila bipunctata* Lw. Vancouver.
127. *Mycetophila* (near) *edura* Jn. Caulfields.
128. *Mycetophila socia* Jn. (var.) Lynn Creek.
129. *Mycetophila perlonga* Jn. Caulfields.
130. *Mycetophila polita* Lw. Caulfields.
131. *Mycetophila exusta* Jn. Vancouver.
132. *Sceptonia nigra* Meig. Selkirk Mts.; Rogers' Pass; Caulfields.
133. *Sciara pauciseta* Felt. Grand Forks.
134. *Sciara tridentata* Rub. Lowe Inlet.
135. *Sciara prolifica* Felt. Selkirk Mts.
136. *Sciara munda* Jn. Vancouver; Vancouver Island.
137. *Sciara acuta* Jn. Vancouver.
138. *Manota* sp. Savary Island; Stanley Park.
139. *Opistholoba ocellata* Jn. Caulfields; Lynn Creek.

NOTES ON *OPORINIA AUTUMNATA* Gn.

By G. O. Day

Any information that serves to identify or determine some of our B.C. Lepidoptera that are doubtfully named, is so much to the good; therefore the following notes on the above named species may be of interest.

I have long been of the opinion that the moth recorded in our Check List of B.C. Lepidoptera as *Asthena dilutata* Denis & Schiff, was not that species. (I may mention in passing that in Barnes & McDunnough's recently published Check List the family name is changed to *Oporinia* Hbn., which name we may now accept.) In order to find out if my doubts were correct, I obtained in 1913 some ova from the only representative of the genus *Oporinia* I have taken in this district (Duncan) and I bred the insect through to the perfect state in 1914. I found that the larvae differed sufficiently from those of genuine *dilutata*, as figured in Buckler's Larvae of British Lepidoptera, to justify my suspicions. Last August I received a letter from Dr. Harrison, of the Zoological Department of the University of Durham, England, asking me if I could let him have ova of *O. dilutata* from British Columbia for the purpose of experimenting in the crossing of that species with the closely allied species *O. autumnata*. Fortunately, I was able to supply him with ova of the *Oporinia* occurring here, and in his letter of acknowledgment he wrote as follows: "The eggs are those of *O. autumnata*, not *dilutata*. *Dilutata* has a small egg, polished and markingless, about one-third the size of these. *Autumnata* differs in nowise from yours."

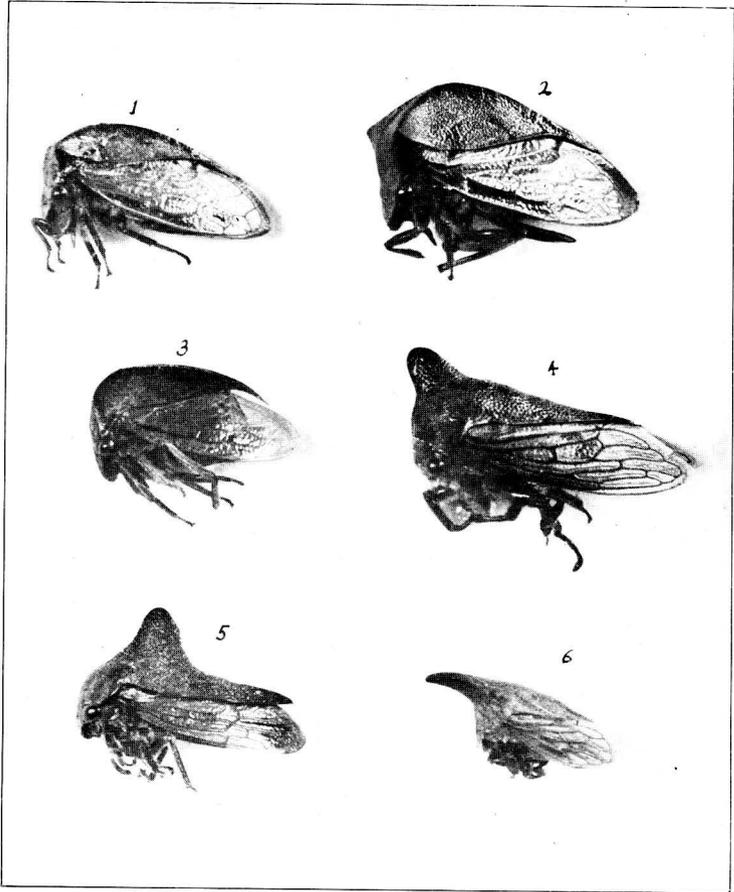
When I was in England I was well acquainted with both *dilutata* and *autumnata* in the perfect state, and the two were accepted by all entomologists there as distinct species.

As Drs. Barnes & McDunnough in their Check List make *autumnata* only a form of *O. dilutata* and not a separate species, I wrote to the authors and enclosed Dr. Harrison's letter, calling their attention to the information contained therein. In reply Dr. McDunnough stated that the matter had been cleared up in 1917, by Mr. Swett, who gave the new name *autumnata* var. *henshawi* to our North American form.

It is satisfactory to feel that progress is being made in the identification of our B.C. insects.

I assume from Barnes & McDunnough's list that *O. dilutata* also is found in North America, but I have failed to find the species in the Cowichan district so far.

PLATE II.



EXPLANATION OF PLATE II.

(All Figures $\times 4$)

- Fig. 1. *Ceresa basalis* Walk., female.
- Fig. 2. *Ceresa bubalus* Fab., female (ovipositor protruding).
- Fig. 3. *Stictocephala pacifica* Van D., female.
- Fig. 4. *Platycotis quadrivittata* Say., female.
- Fig. 5. *Glossonotus univittatus* Harr., female.
- Fig. 6. *Campylenchia latipes* Say., female.