Order PASSERES, Perching Birds

Hylocichla ustulata (Nuttall), Olive-backed Thrush.

Philopterus sp.

Ixoreus naevius (Gmelin), Varied Thrush. Bruelia sp. Philopterus sp. Sialia mexicana Swainson, Western Bluebird.

Philopterus ? sialii (Osborn).

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## ANNOTATED LIST OF FOREST INSECTS OF BRITISH COLUMBIA PART V — DIORYCTRIA SPP. (PYRALIDAE)<sup>1</sup>

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Snout moths of the genus Dioryctria (includes Pinipestis) are an important, although rather imperfectly known group of conifer pests. Their larvae attack cones, foliage, and the bark and outer wood of twigs or trunks. Larvae of most Dioryctria are drab and of uniform coloration. Some species have pigmented pinacula giving a appearance; others have broad, and in some instances, obscure stripes. All members of the genus a prominent, pale-coloured, black-ringed pinaculum above each spiracle on A<sub>8</sub>, and an even more prominent, similarly marked pinaculum on the side of T2. Dioryctria spp. over-winter in the larval stage; most of the boring species pupate in a silklined cell within the host plant tissue. Excepting D. abietella D. & S. which emerges in the spring, adults emerge during midsummer.

**D.** auranticella (Grote). Pinus ponderosa (cones and staminate flowers); During 1949 to Southern Interior. 1954, was in epidemic proportions through much of the Okanagan Valley; as many as 80 per cent of the cones from some sample trees were infested. Usually cones that have been attacked by this borer do not Infested cones have small, round, clean exit holes. Often several larvae feed in a cone leaving it a mere shell. This insect pupates in a silk-lined cell in the cone. length, 1 inch; head, reddish-brown and black; prothoracic shield and legs, black; body, blackish to dirty light brown, may be reddish tinge on thorax; suranal plate, anal prolegs, and circular spot on eighth abdominal segment, pale tan, the latter with narrow black border: brownish about setal bases.

- **D.** sp. nr. auranticella. Pinus ponderosa (cones); Southern Interior; much less common than auranticella; habits similar D. auranticella. to **Larva:** \(\frac{3}{4}\) inch; reddish-brown head; prothoracic shield, suranal shield and sides of anal prolegs pale tan; body flesh-coloured; subdorsal - supraspiracular stripe dark grey; pinacula not pigmented.
- **D.** abietella D. & S. the cones of Pseudotsuga menziesii, Picea engelmanni, Abies lasiocarpa, Pinus ponderosa, Pinus contorta (and from Cronartium gall on branch), Pinus monticola (from

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mechanically injured portion of bole); generally distributed throughout Interior B.C. Larva forms a mass of frass and castings about burrow entrance; the cone boring form over-winters on the ground as a fully developed larva in a silky cocond coated with adhering bits of duff and soil. Douglas fir cones were infested lightly throughout much of Southern Interior during 1950 and 1951. although the species was less numerous than Barbara colfaxiana. Larva: 3/4 inch; head, reddish-brown, prothoracic shield paler; upper half of body, pinkish-red, rather obscure dark dorsal and subdorsal stripes; venter pale; suranal plate and centre of A<sub>8</sub> pale tan, speckled with brown.

D. reniculella Grt. complex. glauca, Picea engelmanni, Pseudotsuga menziesii, Abies lasiocarpa; generally distributed. The form on spruce may be a species distinct from the fir feeders. D. reniculella is almost exclusively a needle feeder in British Columbia; only one adult was reared from a Douglas fir cone. No outbreaks recorded. Larva: § inch; head, tan to dark brown to black; prothoracic shield yellowish-tan; ground colour of body, pale yellow; upper portions of body, pale cinnamon, with faint yellowish dorsal and subdorsal stripes; dark brown patches or black stripe along supraspiracular area.

D. zimmermani (Grt.). Pinus contorta (bole and branches, and ex Cronartium sp. galls on branches); Pinus monticola (bole). This species is chiefly secondary and only occasionally is primary in British Columbia; generally distributed through the Interior. Larva: ¾ inch; head, reddishbrown, mouthparts, blackish; prothoracic shield dark brown; suranal plate pale tan; body, dirty off-white; blackish pinacula; irregular rows of minute black platelets on thorax and abdomen observable under magnification.

**D.** sp. nr. **zimmermani.** Pinus ponderosa (bole); Nicola R. Valley. Four adults were reared from the area surrounding a patch of rodent-damaged bark. **Larva:** unknown.

D. cambiicola Dyar. Pinus ponderosa (twigs); Okanagan Valley. A light infestation occurred in mature ponderosa pine, Summerland Experimental Farm, 1953-1954. The larvae bore into sides of twigs and feed on the bark and cambium of branchlets; their presence is indicated by a mass of pitch-coated frass and castings. The terminal portion of the infested Larva: 3 inch; head, branch dies. reddish-brown, black about mouthparts; prothoracic shield, black; body, dirty white; blackish pinacula; under magnification, irregular rows of minute black platelets discernible on thorax and abdomen; centre of suranal plate and anal prolegs, reddishbrown or black.

## Acknowledgment and note

The writers are indebted to Dr. E. Munroe for identifying adult material reared during investigations of the genus *Dioryctria*.

One change in a species name was made by the senior author after the paper was in press. This was done following a perusal of the newly released "American Moths of the Subfamily Phycitinae" by C. Heinrich. U.S.N.M. Bull. 207. 1956

## Gyrophaena Insolens Csy.

Gyrophaena insolens Csy. (Coleoptera: Staphylinidae). I took a good series of this insect at Creston, B.C., from a large yellow mushroom, 9-IX-1951. By that time Seevers' Revision of Gyrophaena was already in press, so my capture was too late to receive notice. But in his letter identifying the species Seevers mentioned he had seen only three

or four specimens of *insolens*, these from the type locality, Isle Royale, Michigan. The Revision lists five species from B.C., all of which I have: affinis Sahlb., uteana Csy., keeni Csy., californica Csy. and nana Payk. But insolens is larger and more distinctive than any of these.—G. Stace Smith, Creston, B.C.