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New American Bees.— VII.

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NEW AMERICAN BEES.—VII.

By T. D. A. COCKERELL.

OLIGOTROPUS, Robertson.

ROBERTSON (Trans. Am. Ent. Soc. xxix.) has segregated from *Megachile*, under the name *Oligotropus*, a species which he names *O. campanulæ*, but which is evidently the same as that formerly reported as *Megachile exilis*. I possess a specimen of this from Robertson, but I have not seen the true *M. exilis*, Cresson, described from Texas. The group is a distinct one, and possibly deserves generic rank; in addition to the characters reported by Robertson, it has some peculiarities of the galea and maxillary palpi, as indicated in Ann. & Mag. Nat. Hist., March, 1902, p. 232. Upon comparing the available materials, I am able to discriminate several closely allied species or races, occupying different regions. These may be separated as follows:—

Anterior tarsi of male pale ferruginous (Humid lower austral zone of Texas) *Megachile exilis*, Cresson.
Anterior tarsi black or brownish black 1.

1. The two middle nodules on lower edge of female clypeus much closer together than the distance from either to the lateral nodule; female about 10 mm. long; abdominal bands in both sexes very narrow, but distinct, and pure white (Boulder, Colorado, July 24th to Aug. 4th, 1908, S. H. Rohwer)

Megachile subexilis, n. sp. or subsp.

The nodules nearly equally spaced, but the interval between the lateral and median ones large; insect a little larger and more robust than the last, with the abdominal bands very distinct, and yellowish (West Fork of Gila River, New Mexico, July 16th, C. H. T. Townsend; Rio Ruidoso, New Mexico, on flowers of *Vicia* aff. *pulchella*, alt. 6700 ft., July 27th, male, C. H. T. Townsend)

Megachile semiexilis, n. sp. or subsp.

The small lateral nodules very close to the median ones; abdominal bands only moderately distinct 2.

2. Last ventral segment of female with black hair; lower margin of clypeus strongly arched or concave (Southern California) *Megachile angelarum*, Ckll.

Last ventral segment of female with light hair; lower margin of clypeus scarcely arched (Southern Illinois, Robertson; Indiana, from Lovell)

Megachile campanulæ (Rob.).

M. semiexilis is the species of New Mexico hitherto recorded as *exilis*; the mouth-characters recorded in Ann. Mag. Nat. Hist. (as cited above) under *exilis* were derived from *semiexilis*. I have a series of each of the Rocky Mountain forms, and there

is no doubt that they are distinct. In the male it is hard to distinguish *campanulæ* from *subexilis*, but *campanulæ* has the wings evidently darker. The male of *M. angelarum* is not known. The Gila River is the type locality for *M. semixilis*.

Colletes myroni, n. sp.

♀. Length, 9 mm. or a little over, rather robust; *thorax above with bright orange-fulvous hair (with no black)*; *hair of head entirely, and of pleura, black*; that of sides of metathorax thin and pale yellowish; hair of legs black, except on inner side of tarsi, where it is orange-fulvous; abdomen oval, rather small, very shiny, with scattered extremely minute punctures (close at extreme base of second segment); first segment with long pale yellowish hair (some black at extreme sides); remaining segments with rather inconspicuous black hair, but second with some scattered pale yellowish hair on disc, and a feeble apical band of short whitish hair. Clypeus densely, coarsely, more or less confluent punctured; labrum shining, with a central pit, the edges of which are raised; antennæ entirely dark; facial depressions large and broad; vertex shining; mesothorax shining, with distinct, rather close punctures; no visible prothoracic spines; tegulæ shining black; base of metathorax with the pits irregular, more or less transversely ridged, and less distinctly bounded behind than is usual; wings dusky, with piceous nervures; first r. n. joining second s. m. before its middle; second r. n. with a strong double curve; hind spurs simple. Malar space short, more than twice as broad as long. A remarkable species, looking like some forms of *Andrena*, as *A. berberidis*. The shining black abdomen suggests *C. nigrifrons*, Titus, but that species is narrower, has quite differently coloured hair on thorax above, and small narrow facial depressions. I do not know of any species which can be said to be closely allied.

Hab. Boulder, Colorado, May 26th, 1908 (S. A. Rohwer). Named after Mr. Myron H. Swenk, in recognition of his very valuable work on the genus *Colletes*.

Panurginus didirupa, n. sp.

♂. Length about 7 mm.; in the table in Ent. News, 1907, p. 184, runs to *P. ornatipes*, to which it is very closely allied. It differs from *P. ornatipes* by the longer antennæ, the entirely black scape, the supraclypeal mark (which is almost exactly square) extending half its area above the general level of the lemon-yellow of the face, and the hind tibiæ black except at extreme apex. Clypeus very strongly punctured, without any median groove (in *P. boylei* there is a very distinct groove); flagellum entirely black; dog-ear marks small, cuneiform; front densely punctured; mesothorax shining; wings strongly dusky; second and third abdominal segments broadly depressed basally, this area covered with fine silky brownish-grey hair; hind tarsi with first two joints yellow, the others brown.

♀. Almost exactly like *P. ornatipes*, but the shining apical depressions of the abdominal segments are minutely granular (smooth in *ornatipes*), and the area of the metathorax is better defined. Wings

strongly smoky; nervures and stigma dark fuscous; mesothorax very shiny, with sparse but strong punctures; hind tarsi black.

Hab. North Boulder Creek, Boulder County, Colorado, in the Canadian Zone (S. H. Rohwer, 1907). The type is a male, Aug. 21st. The female was taken Aug. 22nd. The specific name refers to the yellow face of the male, in the language of Celebes.

At Livermore, Colorado, Aug. 12th, 1908, Mr. Rohwer took *Perdita lacteipennis*, Swenk & Ckll., and *Panurginus piercei*, Crawford, at flowers of *Helianthus*. These species are new to Colorado.

University of Colorado, Boulder, Colorado:
October 25th, 1908.

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RETURNING from Andalusia last spring, I stopped at Guéthary, near Biarritz, from 23rd to the 29th of May. Guéthary is at all times a very charming spot for a short sojourn, and in July and August on a previous occasion, when passing through, *en route* for Spain, quite a number of interesting Diurni were observed. On this occasion, however, I cannot report that the butterflies seen were either numerous in species or examples, and those that did occur were few of them of special interest. Amongst them, on most days, I came across several specimens of *Everes argiades* in good condition; these were presumably a first brood, and the brood I observed in the middle of July, 1905, just going off, and a brood coming on during the second week in August the same year, would, no doubt, represent the second and third broods. Assuming that there would be another brood in September, it seems probable that in this district *E. argiades* gets in at least four broods each summer. A few *Melitæ cinxia* were observed in one small locality; and on a marsh, *M. aurinia* of the typical Central European form were abundant. I observed a single example of *Papilio podalirius*, but failed to effect its capture. *Brenthis selene* was not infrequent, and was generally distributed; I had on my previous visit taken the second brood of this species in August. A worn *Colias edusa* var. *helice* afforded me a few ova, from which, on my return home, I bred seven examples—two typical males and females, and three var. *helice*. An interesting capture was four examples of undoubted *Melitæ parthenie*. Other species observed were: *Cænonympha pamphilus*, *Pieris brassicæ*, *P. rapæ*, *Cyaniris argiolus*, *Pararge egeria* (typical), *Nisoniades tages*, *Hesperia malvæ*, *Pyrameis cardui*, *Brenthis dia*, *Gonepteryx rhamni*, *Polyommatus baton*, *P. alexis*, *Melitæ*

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