

# *Hong Kong Entomological Bulletin*



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**Cover photograph:** Adult *Calomera littoralis peipingensis* (Mandl, 1934), photo by Paul Aston.

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## Three species of Tiger Beetles (Carabidae, Cicindelinae) new to the Hong Kong Fauna

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### ABSTRACT

An updated checklist of Tiger Beetle species recorded in Hong Kong is given, and illustrations and notes given for the three additional species.

**Key words:** Tiger beetles, new record, Hong Kong

### INTRODUCTION

In the catalogue of Hong Kong Carabidae (Aston, 2016) I listed 28 species of Cicindelinae. Since the publication three additional species: *Calomera littoralis peipingensis* (Mandl, 1934), *Lophyra (Lophyra) fuliginosa* (Dejean, 1826) and *Neocollyris (Neocollyris) moesta moesta* (Schmidt-Goebel, 1846) have been identified, bringing the total number of recorded species to 31.

### MATERIALS & METHODS

For general methodology see Aston (2016).

### RESULTS & DISCUSSION

#### *Calomera littoralis peipingensis* (Mandl, 1934) (Fig. 1)

The occurrence of this distinctive north Asian subspecies in Hong Kong is adventitious (Jürgen Wiesner pers. com.). The fact that it was found in peak bird migration time in September should invoke at least the thought that it may have somehow been bird assisted, but it could just as easily have been assisted by ship, storm or humans. The species has a massive range from North Africa to Siberia, though *C. l. peipingensis* (Mandl, 1934) is known so far from Russia (E Siberia), China (Beijing, Gansu, Guizhou, Hebei, Henan, Liaoning, Nei Mongol, Shanxi, Tianjin, Xinjiang) and Mongolia (Jürgen Wiesner pers. com.). Material: 1 ex. Hong Kong, Lantau, Wang Tong, 6.IX.2018 to light trap, Leg: Paul Aston. Identification: distinctive, see Figure 1.

#### *Lophyra (Lophyra) fuliginosa* (Dejean, 1826) (Fig. 2)

It is no surprise this species, recorded from neighboring Guangdong province has been recorded in Hong Kong. Puchkov and Matalin (2003) give its Chinese distribution as Guangdong province and Shanghai. Material: 1 ex. Hong Kong, Sai Kung, Ham Tin, 14.VI.2008, Leg: Yiu Vor. Identification: distinctive, see Figure 2. The key given in Wiesner (2017) covers all species of *Lophyra* recorded in Hong Kong.

#### *Neocollyris (Neocollyris) moesta moesta* (Schmidt-Goebel, 1846) (Fig. 3)

This is another species that has been expected in Hong Kong as it has been previously recorded in from neighboring Guangdong province. Wiesner (2017) gives its distribution in China as: Guangdong, Sichuan, Yunnan. Material: 1 ex. Hong Kong, Hang Kung Wo, Malaise trap, 31.III.-14.IV.2018, Leg: C. Barthelemy; 1 ex. Hong Kong, Lam Tsuen valley, 26.V.2012, Leg: Paul Aston; 1 ex. Hong Kong, Wu Kau Tang, 29.V.2012, Leg: Paul Aston; 1 ex. Hong Kong, Pak Sha O, Malaise Trap, 28.V.-11.VI.2016, Leg: C. Barthelemy; 2 ex. Hong Kong, Hang Kung Wo, Malaise Trap, 26.V.-7.VII.2018, Leg: C. Barthelemy. Identification: Illustrated in Figure 3. For a key to the identification of all Hong Kong species of *Collyrina*, except *Protocollyris ngaungakshani* Wiesner, 2012, see Wiesner (2017). *P. ngaungakshani* is much smaller (<10mm long) than the other *Collyrina* recorded in Hong Kong, it also differs in having dark femora.

### Updated checklist of Hong Kong Cicindelidae

Note included in the checklist are two subspecies of *Cylindera kaleea*, and three subspecies of *Lophyra striolata*. \* Taxa not recently recorded.

*Abroscelis anchoralis anchoralis* (Chevrolat, 1845)  
*Abroscelis psammodytes psammodytes* (Chevrolat, 1845)  
*Callyton andersoni* (Gestro, 1889)  
*Callyton inspeculare inspeculare* (Horn, 1904)\*  
*Callyton nivivinctum* (Chevrolat, 1845)  
*Calochroa flavomaculata* (Hope, 1831)\*  
*Calochroa interruptofasciata interruptofasciata* (Schmidt-Göebel, 1846)  
*Calomera littoralis peipingensis* (Mandl, 1934)  
*Cephalota (Taenidia) chiloleuca* (Fischer von Waldheim, 1820)\*  
*Cicindela (Sophidela) chinensis chinensis* De Geer, 1774  
*Cosmodela juxtata* Acciavatti & Pearson, 1989  
*Cosmodela virgula* (Fleutiaux, 1893)\*  
*Cylindera (Ifasina) decolorata* (Horn, 1907)  
*Cylindera (Ifasina) fallaciosa* (Horn, 1897)  
*Cylindera (Ifasina) kaleea cathaica* (Bates, 1874)  
*Cylindera (Ifasina) kaleea kaleea* (Bates, 1866)\*  
*Cylindera (Ifasina) psilica psilica* (Bates, 1866)  
*Lophyra (Lophyra) cancellata candeii* (Chevrolat, 1845)  
*Lophyra (Lophyra) fuliginosa* (Dejean, 1826)  
*Lophyra (Spilodia) striolata dorsolineolata* (Chevrolat, 1845)  
*Lophyra (Spilodia) striolata taliensis* (Fairmaire, 1886)\*  
*Lophyra (Spilodia) striolata striolata* (Illiger, 1800)\*

*Myriochila* (*Myriochila*) *specularis specularis* (Chaudoir, 1865)  
*Myriochila* (*Myriochile*) *sinica* (Fleutiaux, 1889)\*  
*Heptodonta posticalis* (White, 1844)  
*Probstia astoni* Wiesner, 2010.  
*Neocollyris* (*Isocollyris*) *grandisubtilis* (Horn, 1935)\*  
*Neocollyris* (*Neocollyris*) *moesta moesta* (Schmidt-Goebel, 1846)  
*Neocollyris* (*Neocollyris*) *bonnelli bonnelli* (Guerin-Meneville, 1834)  
*Neocollyris* (*Orthocollyris*) *crassicornis* (Dejean, 1825)  
*Protocollyris ngaungakshani* Wiesner, 2012  
*Tricondyla pulchripes* White, 1844  
*Tricondyla stricticeps* Chaudoir, 1864\*

## ACKNOWLEDGMENTS

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## FIGURES



**Figure 1.** *Calomera littoralis peipingensis* (Mandl, 1934) (Photo by author).



**Figure 2.** *Lophyra* (*Lophyra*) *fuliginosa* (Dejean, 1826) (Photo by author).



**Figure 3.** *Neocollyris* (*Neocollyris*) *moesta moesta* (Schmidt-Goebel, 1846) (Photo by author).



## Identification and notes on Hong Kong Carabidae 2.

### The sub-tribe *Pentagonicina* Bates, 1873 (*Lebiinae* Bonelli, 1810, *Odacanthini* Laporte de Castelnau, 1834)

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#### ABSTRACT

A key to all, and illustrations of most species of *Pentagonicina* Bates, 1873 recorded from Hong Kong is given. Also included are notes on worldwide and local distribution and a bar chart showing the flight periods of adults.

**Key words:** Ground Beetles, Carabidae, Hong Kong

#### INTRODUCTION

The *Pentagonicina* Bates, 1873 are a distinctive group of ground beetles, historically treated as a subfamily, but here as a sub-tribe as in Lorenz (2005). In the catalogue of Hong Kong Carabidae (Aston, 2016) I listed five species of *Pentagonica*, here a sixth species *Pentagonica proxima* Baehr, 2011 is included.

#### METHODS

For general methodology see Aston (2016). Species of *Pentagonica*, probably due to their arboreal habits, are scarce and difficult to collect. All Hong Kong specimens to date were caught by netting or lured by light traps.

#### RESULTS & DISCUSSION

Surprisingly this sub-tribe is represented in Hong Kong by six species of the genus *Pentagonica*. As far as is known all Hong Kong species as arboreal, though some species are only known from light traps. Distribution notes below come from Baehr (2011).

##### *Pentagonica suturalis* Schaum, 1863

*Pentagonica suturalis* Schaum, 1863 was described from a Hong Kong specimen, but has recently been discovered to range from Taiwan to Malaysia. Locally all modern records come from light trapping in western Lantau, though the original type specimen will have originated from Hong Kong Island.

##### *Pentagonica pallipes* (Nietner, 1856)

*Pentagonica pallipes* (Nietner, 1856) has a massive distribution from India to Japan and Australia, again all local records come from light traps in western Lantau.

##### *Pentagonica erichsoni* Schmidt-Gobel, 1846

*Pentagonica erichsoni* Schmidt-Gobel, 1846 also has a large range from India to southern China and Australia. In Hong Kong collected from Ng Tung Chai and Tai Mo

Shan.

##### *Pentagonica nitidicollis* Baehr, 2011

*Pentagonica nitidicollis* Baehr, 2011, has a distribution from northern India to Vietnam and southern China. In Hong Kong collected from Ng Tung Chai and Ping Shan Chai.

##### *Pentagonica ruficollis* Schmidt-Gobel, 1846

*Pentagonica ruficollis* Schmidt-Gobel, 1846, is distributed from India to Indonesia. Locally all modern records come from Ng Tung Chai, though in the British Museum of Natural History there is an old specimen collected on Cheng Chau on 4 June 1939, leg J. L. Gressitt.

##### *Pentagonica proxima* Baehr, 2011

*Pentagonica proxima* Baehr, 2011, Described from northern Thailand, north-east India and a specimen from Hong Kong. The Hong Kong specimen came from the Schaum collection and lacks antennae and collection information.

#### Key to Hong Kong species

1. Pronotum orange ..... **2**  
- Pronotum black ..... **4**
2. Elytra suture orange along entire length (visible in dry specimen) .. *P. suturalis* Schaum, 1863 (Fig. 3)  
- Elytra suture black ..... **3**
3. Elytral stria distinctly punctate .....  
..... *P. pallipes* (Nietner, 1856) (Fig. 1)  
- Elytral stria not punctate .....  
..... *P. ruficollis* Schmidt-Gobel, 1846 (Fig. 2)
4. Pronotum shiny without microsculpture, distinctly contrasting with microsculpture on head. Antennae yellow. Elytral stria distinctly punctate ..... *P. nitidicollis* Baehr, 2011 (Fig. 5)  
- Pronotum with microsculpture, not shiny ..... **5**
5. Antennae dark, antennaemeres 3-4 paler brown ..... *P. erichsoni* Baehr, 2011 (Fig. 4)  
- Antennae yellow except for antennomere 1 .....  
..... *P. proxima* Baehr, 2011

#### ACKNOWLEDGMENTS

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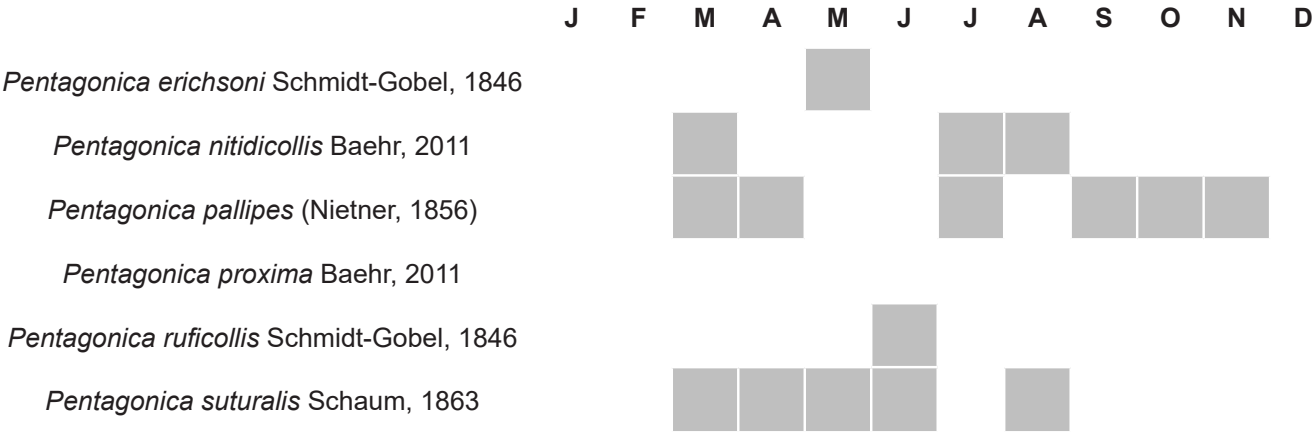
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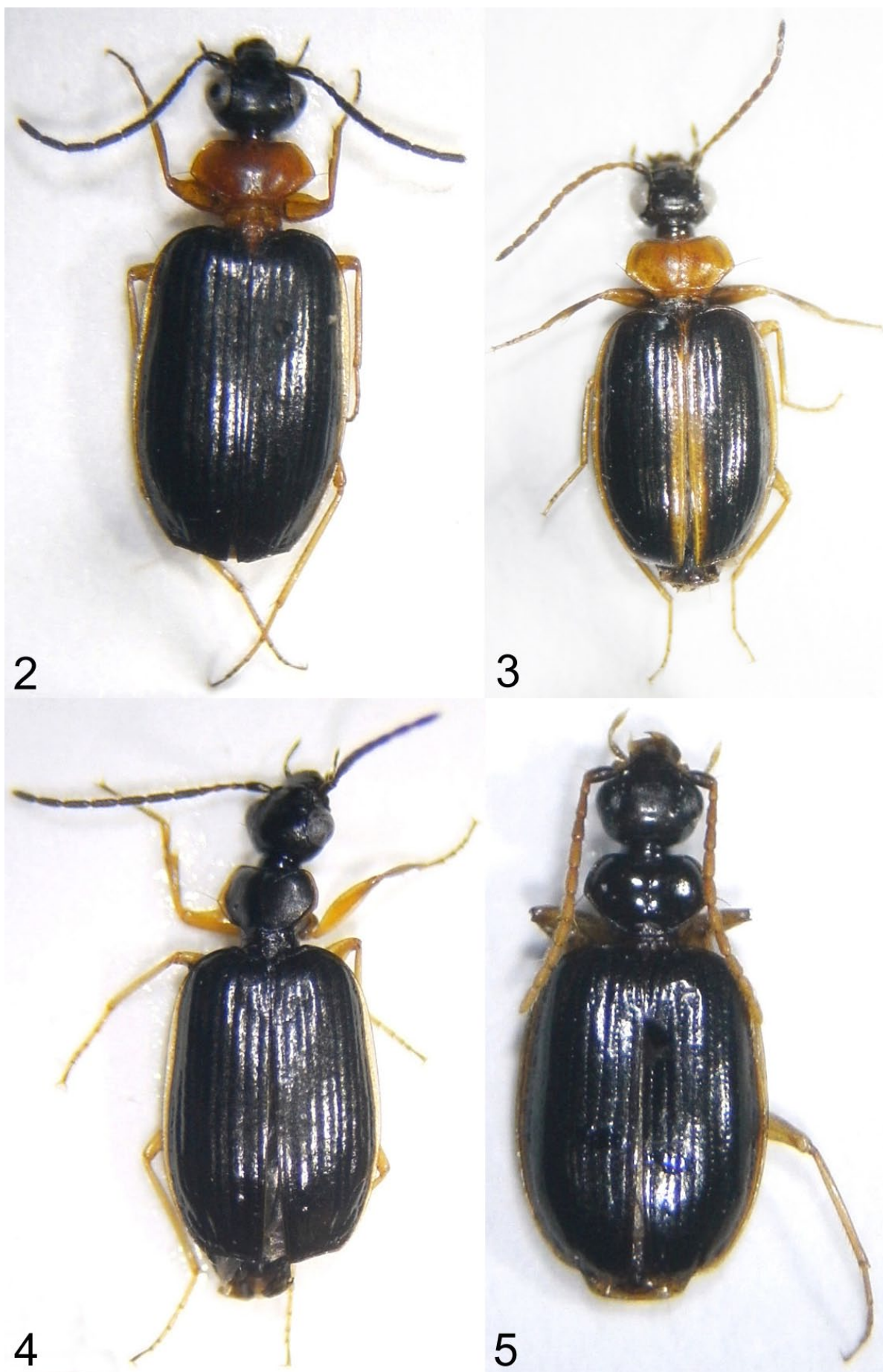
TABLE & FIGURES



**Table 1.** Bar chart showing the Imago flight period for all known species (J = January to D = December). No information available for *P. proxima* Baehr, 2011.



**Figure 1.** *Pentagonica pallipes* (Nietner, 1856) (Photo by author).



**Figure 2-5.** *Pentagonica* spp. **2.** *Pentagonica ruficollis* Schmidt-Gobel, 1846. **3.** *Pentagonica suturalis* Schaum, 1863. **4.** *Pentagonica erichsoni* Schmidt-Gobel, 1846. **5.** *Pentagonica nitidicollis* Baehr, 2011 (Photo by author).



