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## On the Coccinellidae Collected from Areca Palm on Hainan Is., China 【Research report】

### 海南島檳榔園捕食性天敵瓢蟲(鞘翅目：瓢蟲科) 【研究報告】

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\*通訊作者E-mail: [entsocjournal@yabee.com.tw](mailto:entsocjournal@yabee.com.tw) Coccinellidae, Arecanut, Hainan Island

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### Abstract

In this paper, 18 species of Coccinellidae collected from areca palm in Hainan Is., China are reported.

### 摘要

本文記述海南檳榔園捕食性天敵瓢蟲10屬18種：台毛艷瓢蟲 *Pharoscyrnus taoi* Sasaji · 擬小食璠瓢蟲 *Stethorus(Allostethorus) parapauperculus* Pang · 越南食璠瓢蟲 *Stethorus(Allostethorus) vietnamicus* Hoang · 無花果斧瓢蟲 *Axinoscymnus beneficus* Kamiya · 腹毛陡胸瓢蟲 *Clitostethus sternalis* (Pang et Gordon) · 台灣凱瓢蟲 *Keiscymnus taiwanensis* Yang et Wu · 雙囊小瓢蟲 *Scymnus(Pullus) dicorycus* Pang et Huang · 凱氏小瓢蟲 *Scymnus(Pullus) koebelei* (Pang et Gordon) · 台灣小瓢蟲 *Scymnus(Pullus) taiwanus* (Ohta) · 長管小瓢蟲 *Scymnus(Pullus) tenuis* Yang · 內囊小瓢蟲 *Scymnus(Pullus) yangi* Yu et Pang · 廣東隱勢瓢蟲 *Cryptogonus guangdongiensis* Pang et Mao · 五指山隱勢瓢蟲 *Cryptogonus wuzhishanus* Pang et Mao · 海南縱條瓢蟲 *Brumoides hainanensis* Miyatake · 細緣唇瓢蟲 *Chilocorus circumdatus* (Gyllenhal) · 黑背唇瓢蟲 *Chilocorus gressitti* Miyatake · 海南廣盾瓢蟲 *Platynaspis hainanensis* (Miyatake) · 四斑廣盾瓢蟲 *Platynaspis maculosa* Weise。

**Key words:** Coccinellidae, Arecanut, Hainan Island

**關鍵詞:** 瓢蟲科、檳榔、海南島

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# On the Coccinellidae Collected from Areca Palm on Hainan Island, China

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## ABSTRACT

In this paper, 18 species of Coccinellidae collected from areca palm on Hainan Is., China are reported.

**Key words:** Coccinellidae, arecanut, Hainan Island.

## Introduction

Areca palm is an important tropical crop which can be infested with scale insects, aphids, whiteflies, and mites. During our research, we discovered that the resources of predatory coccinellids abound. For this reason, in 1995-1996 we systematically collected coccinellids from areca palm on Hainan Island, and preliminary identification indicated that there are 18 species of coccinellids.

### 1. *Pharoscyrnus taoi* Sasaji, 1967

*Pharoscyrnus taoi* Sasaji, 1967

*Pharoscyrnus taoi*: Pang et Mao, 1978; 1979; Peng et al., 1997

**Distribution:** Hainan (Jianfengling, Bawangling, Danzhou, Changjiang, Wenchang), Guangdong, Guangxi, Taiwan.

**Specimens examined:** 2 ♂ ♀, Jianfengling, Hainan Is., Sept. 1995; 4 ♂ ♀, Bawangling, Hainan Is., Sept. 1995; 13 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 58 ♂ ♀, Nanfeng Town, Danzhou City, Aug.

1995; 1 ♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 2 ♂ ♀, Shilu Town, Changjiang Co., Aug. 1995; 2 ♂ ♀, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995.

### 2. *Stethorus* (*Allostethorus*) *parapauperculus* Pang, 1966

*Stethorus parapauperculus* Pang, 1966

*Stethorus* (*Allostethorus*) *parapauperculus*: Pang et Mao, 1975; 1978; 1979; Cao, 1992; Ren et Pang, 1996; Peng et al., 1997

**Distribution:** Hainan (Haikou, Danzhou, Qiongzong, Baoting, Qionghai, Wenchang), Guangdong, Yunnan.

**Specimens examined:** 2 ♂ ♀, Haikou City, Hainan Is., Apr. 1996; 2 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 1 ♀, Yangjiang Farm, Qiongzong Co., Hainan Is., Sept. 1995; 2 ♂ ♀, Sandao Farm, Baoting Co., Hainan Is., Sept. 1995; 2 ♂ ♂, Dongpin Farm, Qionghai Co., Hainan Is., Apr. 1996; 2 ♂ ♀, Dongjiao Town, Wenchang, Co., Hainan Is., Sept. 1995.

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3. *Stethorus* (*Allostethorus*) *vietnamicus*

Hoang, 1979

*Stethorus* (*Allostethorus*) *vietnamicus*  
Hoang, 1979; Pu, 1990; Ren et Pang,  
1996; Peng et al., 1997

**Distribution:** Hainan (Jianfengling, Diaolu Mt., Haikou, Danzhou, Qiongzong, Baoting, Ledong, Tongshi, Qionghai, Wenchang), Guangxi; Vietnam.

**Specimens examined:** 1 ♂, Jianfengling, Hainan Is., Apr. 1996; 1 ♂, Diaolu Mt., Hainan Is., May 1996; 9 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 3 ♂ ♀, Nanfeng Town, Danzhou City, Hainan Is., Sept. 1995; 2 ♂ ♀, Sandao Farm, Baoting Co., Hainan Is., Sept. 1995; 2 ♂ ♀, Chongpo Town, Ledong Co., Hainan Is., Apr. 1996; 2 ♂ ♀, Jianfeng Town, Ledong Co., Hainan Is., Sept. 1995; 2 ♂ ♀, Tongshi City, Hainan Is., Aug. 1995; 3 ♂ ♀, Dongpin Farm, Qionghai Co., Hainan Is., Apr. 1996; 2 ♂ ♀, Dongjiaoyelin, Wenchang Co., Hainan Is., Sept. 1995; 2 ♂ ♀, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995; 14 ♂ ♀, Dongjiao Town, Wenchang Co., Hainan Is., Sept. 1995.

4. *Axinoscymnus beneficus* Kamiya, 1963

*Axinoscymnus beneficus* Kamiya, 1963;  
1965; Sasaji, 1971; Yang, 1972; Yu et al.,  
1993; Peng et al., 1997

**Distribution:** Hainan (Wuzhi Mt., Diaolu Mt., Bawangling, Haikou, Danzhou, Lingao, Tongshi, Qiongzong, Ledong, Baoting, Qionghai, Wenchang, Tunchang), Guangdong, Taiwan; Japan.

**Specimens examined:** 3 ♂ ♀, Wuzhi Mt., Hainan Is., May 1996; 1 ♀, Bawangling, Hainan Is., Mar. 1996; 2 ♂ ♀, Diaolu Mt., Hainan Is., May 1996; 10 ♂ ♀, Diaolu-shan Forestry Center, Hainan Is., July 1995; 5 ♂ ♀, Haikou City, Hainan Is., Aug. 1995; 28 ♂ ♀, Haikou City, Hainan Is., Apr. 1996; 12 ♂ ♀, Nanfeng Town, Danzhou City, Hainan Is., Aug. 1995; 4 ♂ ♀, Nanfeng Town, Danzhou City, Hainan Is., Apr. 1996; 55 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 19 ♂ ♀, Lia-

ngyuan, Danzhou City, Hainan Is., Apr. 1996; 72 ♂ ♀, Honghua Farm, Lingao Co., Hainan Is., Apr. 1996; 2 ♂ ♀, Tongshi City, Hainan Is., Aug. 1995; 1 ♀, Jianfeng Town, Ledong Co., Hainan Is., Sept. 1995; 23 ♂ ♀, Nanfang Farm, Qiongzong Co., Hainan Is., Apr. 1996; 1 ♀, Changzheng Farm, Qiongzong Co., Hainan Is., Apr. 1996; 33 ♂ ♀, Sandao Farm, Baoting Co., Hainan Is., Sept. 1995; 27 ♂ ♀, Dongpin Farm, Qionghai Co., Hainan Is., Apr. 1996; 15 ♂ ♀, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995; 3 ♂ ♀, Dongjiaoyelin, Wenchang Co., Hainan Is., Sept. 1995; 6 ♂ ♀, Chenxing Farm, Tunchang Co., Hainan Is., Mar. 1996.

5. *Clitostethus sternalis* (Pang et Gordon, 1986)

*Pseudoscymnus sternalis* Pang et Gordon,  
1986

*Clitostethus sternalis*: Pang et Yu, 1991;  
Peng et al., 1997

**Distribution:** Hainan (Bawangling, Qiongzong, Dingan, Baoting, Qionghai), Guangdong.

**Specimens examined:** 1 ♂, Bawangling, Hainan Is., Mar. 1996; 1 ♂, Maoyang Town, Qiongzong Co., Hainan Is., May 1996; 2 ♂ ♂ 6 ♀ ♀, Nanfang Farm, Qiongzong Co., Hainan Is., Apr. 1996; 1 ♂, Changzheng Farm, Qiongzong Co., Hainan Is., Apr. 1996; 1 ♂ 1 ♀, Zhongrui Farm, Dingan Co., Hainan Is., Apr. 1996; 1 ♂ 1 ♀, Sandao Farm, Baoting Co., Hainan Is., Sept. 1995; 2 ♂ ♂ 2 ♀ ♀, Dongtai Farm, Qionghai Co., Hainan Is., Apr. 1996.

6. *Keiscymnus taiwanensis* Yang et Wu, 1972

*Keiscymnus taiwanensis* Yang et Wu,  
1972; Peng et al., 1997

*Scymnus* (*Pullus*) *sternitus* Pang et Gordon, 1986

**Distribution:** Hainan (Jianfengling, Bawangling, Danzhou, Lingao, Qiongzong, Tongshi, Ledong, Qionghai, Wenchang), Taiwan.

**Specimens examined:** 1 ♂, Jianfengling,

Hainan Is., Apr. 1996; 2♂♂, Bawangling, Hainan Is., Sept. 1995; 2♂♀, Danzhou Forestry Center, Danzhou City, Hainan Is., Apr. 1996; 3♂♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 2♂♀, Honghua Farm, Lingao Co., Hainan Is., Apr. 1996; 1♂, Yangjiang Farm, Qiongzong Co., Hainan Is., Sept. 1995; 5♂♀, Tongshi City, Hainan Is., Aug. 1995; 6♂♀, Jianfeng Town, Ledong Co., Hainan Is., Sept. 1995; 6♂♀, Chongpo Town, Ledong Co., Hainan Is., Apr. 1996; 3♂♀, Dongpin Farm, Qionghai Co., Hainan Is., Apr. 1996; 1♂, Dongjiaoyelin, Wenchang Co., Hainan Is., Sept. 1995; 7♂♀, Dongjiao Town, Wenchang Co., Hainan Is., Sept. 1995.

7. *Scymnus (Pullus) dicorycus* Pang et Huang, 1986

*Scymnus (Pullus) dicorycus* Pang et Huang, 1986; Huang et Pang, 1991; Kuznestov et Ren, 1991; Yu et al., 1993; Peng et al., 1997

**Distribution:** Hainan (Wenchang, Baoting, Danzhou), Fujian, Guangdong; Vietnam.

**Specimens examined:** 2♂♂1♀, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995; 1♂, Sandao Farm, Baoting Co., Hainan Is., Sept. 1995; 4♂♀, Liangyuan, Danzhou City, Hainan Is., Sept. 1995; 1♀, Danzhou Forestry Center, Danzhou City, Hainan Is., Apr. 1996.

8. *Scymnus (Pullus) koebelei* (Pang et Gordon, 1986)

*Keiscymnus koebelei* Pang et Gordon, 1986  
*Scymnus (Pullus) koebelei*: Pang et Yu, 1991; Yu et Pang, 1992; Peng et al., 1997  
*Scymnus (Pullus) xanthostethus* Pang et Pu, 1990

**Distribution:** Hainan (Jianfengling, Wuzhi Mt., Haikou, Danzhou, Tongshi, Qiongzong, Qionghai, Dingan), Fujian, Guangdong, Guangxi.

**Specimens examined:** 1♂1♀, Jianfengling, Hainan Is., Apr. 1996; 2♂♂, Wuzhi Mt., Hainan Is., May 1996; 3♂♀, Liangyuan,

Danzhou City, Hainan Is., Apr. 1996; 1♀, Danzhou Forestry Center, Danzhou City, Hainan Is., Apr. 1996; 4♂♀, Tongshi City, Hainan Is., Aug. 1995; 1♀, Maoyang Town, Qiongzong Co., Hainan Is., Sept. 1995; 5♂♀, Yangjiang Farm, Qiongzong Co., Hainan Is., Sept. 1995; 40♂♀, Dongping Farm, Qionghai Co., Hainan Is., Apr. 1996; 13♂♀, Zhongrui Farm, Dingan Co., Hainan Is., Apr. 1996.

9. *Scymnus (Pullus) taiwanus* (Ohta, 1929)

*Pullus taiwanus* Ohta, 1929

*Scymnus (Pullus) taiwanus*: Korschevsky, 1931; Mader, 1955; Kamiya, 1965; Pang et Gordon, 1986; Kuznetsov et Ren, 1991; Yu et Pang, 1992; Peng et al., 1997

*Scymnus (Pullus) quadrillum*: nec., Motschulsky, 1850; Yang, 1978; Hoang, 1982

**Distribution:** Hainan (Bawangling, Danzhou, Changjiang, Ledong, Qiongzong), Taiwan, Guangdong, Guangxi, Fujian, Zhejiang; the Philippines; Vietnam.

**Specimens examined:** 1♂2♀♀, Bawangling, Hainan Is., Sept. 1995; 6♂♀, Nanfeng Town, Danzhou City, Hainan Is., Aug. 1995; 2♂♀, Shilu Town, Changjiang Co., Hainan Is., Aug. 1995; 1♂, Jianfeng Town, Ledong Co., Hainan Is., Sept. 1995; 1♀, Maoyang Town, Qiongzong Co., Hainan Is., Sept. 1995.

10. *Scymnus (Pullus) tenuis* Yang, 1978

*Scymnus (Pullus) tenuis* Yang, 1978; Huang et Pang, 1991; Kuznestov et Ren, 1991; Yu et al., 1993; Peng et al., 1997

*Scymnus (Pullus) longisiphonulis* Cao et Xiao, 1984

*Scymnus (Pullus) longisiphonulus* Pang et Gordon, 1986

**Distribution:** Hainan (Diaoluo Mt., Bawangling, Haikou, Danzhou, Ledong, Wenchang), Taiwan, Yunnan, Guangdong, Fujian; Vietnam.

**Specimens examined:** 2♂♂, Shijing, Diaoluo Mt., Hainan Is., Sept. 1995; 1♂, Bawangling, Hainan Is., Aug. 1995; 1♂,

Haikou City, Hainan Is., Aug. 1995; 4 ♂ ♀, Nanfeng Town, Danzhou City, Hainan Is., Aug. 1995; 15 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 5 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 6 ♂ ♀, Danzhou Forestry Center, Danzhou City, Hainan Is., Apr. 1996; 2 ♂ ♀, Jianfeng Town, Ledong Co., Hainan Is., Sept. 1995; 2 ♂ ♂ 1 ♀, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995.

11. *Scymnus (Pullus) yangi* Yu et Pang, 1992

*Scymnus (Pullus) yangi* Yu et Pang, 1992; Yu, 1995; Peng et al., 1997

*Scymnus (Pullus) bicolor* Yang, 1978

*Scymnus (Pullus) endocorycus* Pang et Huang, 1986

*Scymnus (Pullus) vimphuensis* Hoang, 1982

**Distribution:** Hainan (Limu Mt., Diaoluo Mt., Bawangling, Jianfengling, Wuzhi Mt., Danzhou, Tongshi), Taiwan, Zhejiang, Fujian, Guangdong; Vietnam.

**Specimens examined:** 2 ♂ ♂, Limu Mt., Hainan Is., Sept. 1995; 3 ♂ ♂, Limu Mt., Hainan Is., Apr. 1996; 1 ♂, Shijing, Diaoluo Mt., Hainan Is., Sept. 1995; 1 ♂ 2 ♀ ♀, Diaoluo Mt., Hainan Is., May 1995; 1 ♂ 1 ♀, Yajia, Bawangling, Hainan Is., Aug. 1995; 22 ♂ ♀, Bawangling, Hainan Is., Mar. 1996; 3 ♂ ♀, Tianchi, Jianfengling, Hainan Is., Sept. 1995; 5 ♂ ♀, Jianfengling, Hainan Is., Sept. 1995; 2 ♂ ♀, Jianfengling, Hainan Is., Apr. 1996; 2 ♂ ♂ 2 ♀ ♀, Wuzhi Mt., Hainan Is., May 1996; 1 ♂ 1 ♀, Shamaoling, Danzhou City, Hainan Is., Aug. 1995; 1 ♀, Nanfeng Town, Danzhou City, Hainan Is., Apr. 1996; 14 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 13 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 9 ♂ ♀, Danzhou Forestry Center, Danzhou City, Hainan Is., Apr. 1996; 2 ♂ ♀, Tongshi City, Hainan Is., Aug. 1995.

12. *Cryptogonus guangdongiensis* Pang et Mao, 1979

*Cryptogonus guangdongiensis* Pang et

Mao, 1979; Peng et al., 1997

**Distribution:** Hainan (Wuzhi Mt., Diaoluo Mt., Haikou, Danzhou, Baoting, Qiongzong, Qionghai, Dingan, Wenchang), Guangdong.

**Specimens examined:** 1 ♀, Wuzhi Mt., Hainan Is., May 1996; 5 ♂ ♀, Diaoluoshan Forestry Center, Hainan Is., Sept. 1995; 19 ♂ ♀, Diaoluo Mt., Hainan Is., May 1996; 2 ♂ ♀, Haikou City, Hainan Is., Apr. 1996; 4 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 1 ♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 2 ♂ ♀, Sandao Farm, Baoting Co., Hainan Is., Sept. 1995; 1 ♂, Maoyang Town, Qiongzong Co., Hainan Is., May 1996; 2 ♂ ♀, Nanfang Farm, Qiongzong Co., Hainan Is., Apr. 1996; 12 ♂ ♀, Dongpin Farm, Qionghai Co., Hainan Is., Apr. 1996; 6 ♂ ♀, Zhongrui Farm, Dingan Co., Hainan Is., Apr. 1996; 3 ♂ ♀, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995.

13. *Cryptogonus wuzhishanus* Pang et Mao, 1979

*Cryptogonus wuzhishanus* Pang et Mao, 1979; Peng et al., 1997

**Distribution:** Hainan (Wuzhi Mt., Limu Mt., Diaoluo Mt., Bawangling, Jianfengling, Danzhou, Baisha, Qiongzong, Tunchang, Dingan, Wenchang), Shanxi.

**Specimens examined:** 52 ♂ ♀, Wuzhi Mt., Hainan Is., Aug. 1995; 9 ♂ ♀, Wuzhi Mt., Hainan Is., May 1996; 18 ♂ ♀, Limu Mt., Hainan Is., Sept. 1995; 11 ♂ ♀, Limu Mt., Hainan Is., Apr. 1996; 35 ♂ ♀, Shijing, Diaoluo Mt., Hainan Is., Sept. 1995; 19 ♂ ♀, Diaoluo Mt., Hainan Is., Sept. 1995; 5 ♂ ♀, Diaoluo Mt., Hainan Is., May 1996; 4 ♂ ♀, Yajia, Bawangling, Hainan Is., Aug. 1995; 4 ♂ ♀, Bawangling, Hainan Is., Sept. 1995; 11 ♂ ♀, Bawangling, Hainan Is., Mar. 1996; 18 ♂ ♀, Tianchi, Jianfengling, Hainan Is., Sept. 1995; 2 ♂ ♀, Jianfengling, Hainan Is., Apr. 1996; 6 ♂ ♀, Shamaoling, Danzhou City, Hainan Is., Aug. 1 ♂, 1995; Nanfeng Town, Danzhou City, Hainan Is., Aug. 1995; 1 ♂, Nanfeng Town, Danzhou City, Hainan Is., Apr.

1996; 9 ♂ ♀, Danzhou Forestry Center, Danzhou City, Hainan Is., Apr. 1996; 25 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 22 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 5 ♂ ♀, Weixing Farm, Baisha Co., Hainan Is., Apr. 1996; 2 ♂ ♀, Nanfang Farm, Qiongzong Co., Hainan Is., Apr. 1996; 16 ♂ ♀, Maoyang Town, Qiongzong Co., Hainan Is., Sept. 1995; 4 ♂ ♀, Yangjiang Farm, Qiongzong Co., Hainan Is., Sept. 1995; 1 ♂, Yinggen Town, Qiongzong Co., Hainan Is., Aug. 1995; 9 ♂ ♀, Chenxing Farm, Tunchang Co., Hainan Is., Apr. 1996; 12 ♂ ♀, Zhongrui Farm, Dingan Co., Hainan Is., Apr. 1996; 1 ♂, Dongzhai Bay, Wenchang Co., Hainan Is., Sept. 1995.

14. *Brumoides hainanensis* Miyatake, 1970

*Brumoides hainanensis* Miyatake, 1970; Pang et Mao, 1979; Huang et Pang, 1991; Cao, 1992; Peng et al., 1997

**Distribution:** Hainan (Qiongzong), Guangdong, Guangxi, Yunnan.

**Specimens examined:** 1 ♂ 1 ♀, Maoyang Town, Qiongzong Co., Hainan Is., Sept. 1995.

15. *Chilocorus circumdatus* (Gyllenhal, 1808)

*Coccinella circumdatus* Gyllenhal, 1808

*Chilocorus circumdatus*: Bielawski, 1957; Liu, 1963; Miyatake, 1970; Canepari, 1986; Pang et Mao, 1979; Huang et Pang, 1991; Cao, 1992; Peng et al., 1997

**Distribution:** Hainan (Diaoluo Mt., Danzhou), Zhejiang, Fujian, Guangdong, Guangxi, Yunnan; Indonesia; India; Sri Lanka.

**Specimens examined:** 27 ♂ ♀, Diaoluo Mt., Hainan Is., July 1995; 1 ♂, Diaoluo Mt., Hainan Is., May 1996; 24 ♂ ♀, Nanfeng Town, Danzhou City, Hainan Is., Aug. 1995; 4 ♂ ♀, Liangyuan, Danzhou City, Hainan Is., Aug. 1995.

16. *Chilocorus gressitti* Miyatake, 1970

*Chilocorus gressitti* Miyatake, 1970; Liu, 1963; Pang et Mao, 1979; Huang et

Pang, 1991; Cao, 1992; Jing, 1992; Peng et al., 1997

**Distribution:** Hainan (Wuzhi Mt., Diaoluo Mt., Tongshi), Sichuan, Fujian, Guangdong, Guangxi, Yunnan; Burma; Thailand; India; Sri Lanka; Nepal; Indonesia.

**Specimens examined:** 1 ♀, Wuzhi Mt., Hainan Is., May 1996; 4 ♀ ♀, Diaoluo Mt., Hainan Is., July 1995; 3 ♀ ♀, Tongshi City, Hainan Is., Aug. 1995.

17. *Platynaspis hainanensis* (Miyatake, 1961)

*Phymatosternus hainanensis* Miyatake, 1961

*Platynaspis hainanensis*: Pang et Mao, 1979; Peng et al., 1997

**Distribution:** Hainan (Wuzhi Mt., Bawangling, Limu Mt., Jianfengling, Diaoluo Mt., Lingao, Danzhou, Qiongzong, Dingan), Guangxi.

**Specimens examined:** 2 ♂ ♂ 1 ♀, Wuzhi Mt., Hainan Is., Aug. 1995; 3 ♂ ♂ 1 ♀, Wuzhi Mt., Hainan Is., May 1996; 4 ♂ ♂ 3 ♀ ♀, Yajia, Bawangling, Hainan Is., Aug. 1995; 2 ♂ ♂, Bawangling, Hainan Is., Mar. 1996; 2 ♂ ♀, Limu Mt., Hainan Is., Sept. 1995; 2 ♂ ♂, Limu Mt., Hainan Is., Apr. 1996; 2 ♂ ♀, Shijing, Diaoluo Mt., Hainan Is., Sept. 1995; 1 ♀, Diaoluo Mt., Hainan Is., May 1996; 2 ♂ ♀, Tianchi, Jianfengling, Hainan Is., Sept. 1995; 1 ♂ 1 ♀, Honghua Farm, Lingao Co., Hainan Is., Apr. 1996; 3 ♂ ♂ 3 ♀ ♀, Nanfeng Town, Danzhou City, Hainan Is., Apr. 1996; 2 ♀ ♀, Liangyuan, Danzhou City, Hainan Is., Apr. 1996; 2 ♂ ♂ 3 ♀ ♀, Maoyang Town, Qiongzong Co., Hainan Is., May 1996; 4 ♂ ♂, Nanfeng Farm, Qiongzong Co., Hainan Is., Apr. 1996; 2 ♂ ♂ 2 ♀ ♀, Zhongrui Farm, Dingan Co., Hainan Is., Apr. 1996.

18. *Platynaspis maculosa* Weise, 1910

*Platynaspis maculosa* Weise, 1910; Miyatake, 1961; Pang et Mao, 1979; Huang et Pang, 1991; Yu et al., 1993; Peng et al., 1997

**Distribution:** Hainan (Wuzhi Mt., Bawangling, Jianfengling, Diaoluo Mt., Da-

nzhou, Qiongzong), Shanxi, Jiangsu, Sichuan, Fujian, Guangdong, Guangxi.

**Specimens examined:** 4 ♂♂ 3 ♀♀, Wuzhi Mt., Hainan Is., Aug. 1995; 1 ♂ 1 ♀, Wuzhi Mt., Hainan Is., May 1996; 1 ♀, Yajia, Bawangling, Hainan Is., Aug. 1995; 1 ♂ 2 ♀♀, Bawangling, Hainan Is., Sept. 1995; 1 ♂, Shijing, Diaoluo Mt., Hainan Is., Sept. 1995; 1 ♂, Liangyuan, Danzhou City, Hainan Is., Aug. 1995; 1 ♀, Tianchi, Jianfengling, Hainan Is., Sept. 1995; 2 ♂♂ ♀♀, Baihualing, Qiongzong Co., Hainan Is., Aug. 1995; 1 ♀, Maoyang Town, Qiongzong Co., Hainan Is., Sept. 1995; 1 ♂, Maoyang Town, Qiongzong Co., Hainan Is., May 1996.

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# 海南島檳榔園捕食性天敵瓢蟲(鞘翅目：瓢蟲科)

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## 摘 要

本文記述海南島檳榔園捕食性天敵瓢蟲 10 屬 18 種：臺毛艷瓢蟲 *Pharoscymnus taii* Sasaji，擬小食蚜瓢蟲 *Stethorus (Allostethorus) parapauperculus* Pang，越南食蚜瓢蟲 *Stethorus (Allostethorus) vietnamicus* Hoang，無花果斧瓢蟲 *Axinoscymnus beneficus* Kamiya，腹毛陡胸瓢蟲 *Clitostethus sternalis* (Pang et Gordon)，臺灣凱瓢蟲 *Keiscymnus taiwanensis* Yang et Wu，雙囊小瓢蟲 *Scymnus (Pullus) dicorycus* Pang et Huang，凱氏小瓢蟲 *Scymnus (Pullus) koebeli* (Pang et Gordon)，臺灣小瓢蟲 *Scymnus (Pullus) taiwanus* (Ohta)，長管小瓢蟲 *Scymnus (Pullus) tenuis* Yang，內囊小瓢蟲 *Scymnus (Pullus) yangi* Yu et Pang，廣東隱勢瓢蟲 *Cryptogonus guangdongiensis* Pang et Mao，五指山隱勢瓢蟲 *Cryptogonus wuzhishanus* Pang et Mao，海南縱條瓢蟲 *Brumoides hainanensis* Miyatake，細緣唇瓢蟲 *Chilocorus circumdatus* (Gyllenhal)，黑背唇瓢蟲 *Chilocorus gressitti* Miyatake，海南廣盾瓢蟲 *Platynaspis hainanensis* (Miyatake)，四斑廣盾瓢蟲 *Platynaspis maculosa* Weise。

關鍵詞：瓢蟲科、檳榔、海南島。