

Thrips (Insecta: Thysanoptera) of China

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ABSTRACT: A new checklist of Thysanoptera from China (including Taiwan) is provided. In total 566 species in 155 genera are listed, of which there are 313 species in the suborder Terebrantia, comprising 290 species in 74 genera in family Thripidae, 18 species in three genera in Aeolothripidae, two species in one genus in Melanthripidae and three species in one genus in Merothripidae. In the suborder Tubulifera 253 species in 76 genera are listed in the single family Phlaeothripidae. Two species, *Aeolothrips collaris* and *Odontothrips meliloti*, are newly recorded for the fauna of China.

INTRODUCTION

About 6000 species of Thysanoptera are known from the world. These are classified into two suborders Terebrantia and Tubulifera, comprising eight families (Bhatti 1979a¹, dealing with both living and fossil forms; Mound *et al.* 1980², dealing with only extant forms), of which 7 families belong to Terebrantia and 1 family belongs to Tubulifera. Subsequently, an eighth family, Melanthripidae, was recalled from synonymy under Aeolothripidae and recognized as a valid family in Terebrantia (Bhatti 1990a). The present checklist follows this classification of Thysanoptera into 9 families³.

The Terebrantia comprise 2000 species, whereas the Tubulifera include 3500 species from all over the world.

The first checklist of Thysanoptera in China was provided by Steinweden and Moulton (1930) with 22 species. The last checklist of thrips from China was published by Zhang and Tong (1993c), including 336 species in 124 genera.

Since then, about 70 papers have appeared on the taxonomy and faunistics of these insects in China from several centres of entomological research in different parts of China, chiefly from the following authors: Wei-qiu Zhang, Xiao-li Tong, and associates (1993–2010, 19 publications) in South China Agricultural University (Guangzhou, Guangdong prov.), Ji-nian Feng and associates (1993–2010, 23 publications), at Northwest Agriculture

and Forestry University (Yangling, Shaanxi prov.), Jun Wang and associates (2006–2011, 7 publications) at Jilin University (Jilin prov.), Xue-xin Chen and associates (2010–2011, 6 publications) at Zhejiang University, Hangzhou (Zhejiang prov.), and Chin-Lin Wang (1993–2010, 19 publications) at Agricultural Research Institute, Taiwan.

These studies have resulted in a substantial increase in the number of species known from China, totalling 566 species in 155 genera belonging to five families, adding 230 species and 31 genera to the last published checklist from China by Zhang and Tong (1993c).

Recent comprehensive publications on this faunal region include a book on economically important Thysanoptera in China (Han 1997a) and on the biology and taxonomy of the thrips of Taiwan (Wang 2002).

Southeastern Asia is one of the most biologically diverse parts of the world. Agricultural production in this area is affected by a wide diversity of insect pests. China is one of the world's largest countries with an area of 9.6 million square kilometres, situated between two different geographical regions (Palearctic and Oriental) (Figure 1), which suggests a high level of biodiversity in these areas. China can be considered a species-rich country concerning Thysanoptera; but in comparison with other insects, the thrips fauna of this country were less studied, and most species are known from east and south of China. Little information is available on species in several parts of

¹ Bhatti (1979a) proposed a new family level classification of Thysanoptera, taking into consideration both living and fossil forms. Seven terebrantian families were placed in synonymy, and two family names, Stenurothripidae and Hemithripidae, were recalled from synonymy under Heterothripidae and validated as families. The suborder Terebrantia was divided into 7 families in 4 superfamilies: Uzelothripidae, in Uzelothripodea; Merothripidae (= Jezzinothripidae), in Merothripodea; Stenurothripidae (= Neocomothripidae, Rhethinothripidae, Scaphothripidae, Scudderthripidae, Adiheterothripidae), including 8 genera of fossil thrips and three recent genera (*Adiheterothrips*, *Holarthothrips*, *Oligothrips*), and Aeolothripidae (= Palaeothripidae), in Aeolothripodea; Thripidae (sensu Priesner 1949), Hemithripidae (a family of fossil thrips, previously considered synonym of Heterothripidae) to include also 3 recent genera: *Fauriella*, *Opisthothrips*, *Ropotamothrips* (= *Osmanothrips*), and Heterothripidae (restricted to 2 recent genera *Heterothrips* and *Scutothrips*), in Thripodea. One superfamily, with a single family Phlaeothripidae was included in the suborder Tubulifera.

² Mound *et al.* (1980) discussed Recent Thysanoptera, which they classified into 8 families: Uzelothripidae, Merothripidae, Aeolothripidae, Adiheterothripidae (with two genera *Holarthothrips* (= *Adiheterothrips*), and *Oligothrips*), Fauriellidae (elevated from tribe Fauriellini, and including 3 recent genera), Heterothripidae (restricted to two recent genera *Heterothrips*, *Scutothrips*), Thripidae, and Phlaeothripidae. In this classification, compared with Bhatti (1979a), Adiheterothripidae corresponds to Stenurothripidae, and Fauriellidae to Hemithripidae.

China, especially in north and west. In addition, host plant relationships of Chinese thrips are poorly known, many species being known from too few samples.

Thysanoptera have a diversity of biologies, i.e. predators, phytophagous, and fungus-feeding. All members of Aeolothripidae, species of *Scolothrips* (in Thripidae) and several species of Phlaeothripidae, such as *Haplothrips kurdjumovi* and *H. subtilissimus* (in Phlaeothripidae), are predators; several recorded species in Phlaeothripidae are fungus-feeding; but most others feed either on leaves or on flowers of plants, many being important pests, such as species belonging to the genera *Haplothrips*, *Stenchaetothrips*, *Taeniothrips*, *Dendrothrips*, *Megalurothrips*, *Anaphothrips*, *Thrips*, *Frankliniella*, *Scirtothrips*, *Microcephalothrips*, and *Ceratothripoides*. Amongst them, species of the five latter genera are pests of agricultural crops and flowers, either by direct damage caused to plant tissue during feeding or by transmission of pathogenic agents, especially viruses.



FIGURE 1. Map of China, showing its provinces.

MATERIALS AND METHODS

The present checklist aims at reviewing as many literatures of Thysanoptera as possible, and listing every species with a Chinese record and distribution in the world. Species reported in postgraduate theses in China, which are not published, are not considered in this list. Nomenclatural information for all thrips taxa in this checklist are web-available (Mound 2011).

3 More recently, the Thysanoptera have been treated as superorder comprising Terebrantia and Tubulifera as two separate orders (Bhatti 1986, 1988, 1992, 1994, 1995, 2003) distinguished from each other by a long list of contrasting characters, including skeletal morphology, wing structure (including venation, chaetotaxy, and coupling mechanism), structure and ontogeny of genitalia, fine structure of sperm, developmental biology, etc. And, based essentially on a suite of previously unknown but highly conserved structures in the body architecture, the Terebrantia were divided into 28 families in 10 superfamilies (Bhatti 2006): Aeolothripidae, Cycadothripidae, Dactuliothripidae, Euceratothripidae, Frankliniothripidae, Indothripidae, Mymarothripidae, and Orothripidae (in Aeolothripidae); Dendrothripidae and Retithripidae (in Dendrothripidae); Hemithripidae (in Hemithripidae); Aulacothripidae and Heterothripidae (in Heterothripidae); Melanthripidae (in Melanthripidae); Erotidothripidae and Merothripidae (in Merothripidae); Rhipiphorothripidae (in Rhipiphorothripidae); Stenurothripidae (in Stenurothripidae); Caliothripidae, Chirothripidae, Heliothripidae, Panchaetothripidae, Parthenothripidae, Projectothripidae, Sericothripidae, Thripidae, and Tryphactothripidae (in Thripidae); and Uzelothripidae (in Uzelothripidae).

Earlier, three of the above families were treated as subfamilies under Thripidae: as Dendrothripinae, Panchaetothripinae, and Sericothripinae (Bhatti 1989 and later authors). Before that, following Priesner (1949), in the Tubulifera, based primarily on previously unknown morphological features, 14 families have been recognized (Bhatti 1988, 1992, 1995, 1998a–d): Adurothripidae, Aleurodothripidae, Allidothripidae, Allothripidae, Andrethripidae, Chirothripidae, Habrothripidae, Hydiothripidae, Idiothripidae, Lonchothripidae, Murphythripidae, Phlaeothripidae, Urothripidae, and Xaniothripidae. Based on the surface structure of wings, it has also been suggested (Bhatti 1991) that the Idolothripinae are paraphyletic, and that the customary division of Tubulifera into Idolothripinae and Phlaeothripinae is not tenable. the family Thripidae was divided into two subfamilies, Panchaetothripinae and Thripinae.

For new records, thrips have been prepared and mounted on slides using the method of Mirab-balou and Chen (2010) and specimens are deposited in the Institute of Insect Sciences, Zhejiang University, Hangzhou, China (ZJUH).

RESULTS AND DISCUSSION

The present checklist comprises 313 species of Terebrantia in 79 genera belonging to four families: Aeolothripidae, Melanthripidae, Merothripidae and Thripidae; and 253 species in 76 genera of family Phlaeothripidae in Tubulifera.

I. SUBORDER TEREBRANTIA HALIDAY

This suborder included eight families in the world (Bhatti 1979a, 1990a, Mound 2011), of which the following four families are known from China: Aeolothripidae, Melanthripidae, Merothripidae, and Thripidae. Among them, Thripidae is the largest family (Table 1) including most of the important species.

TABLE 1. Genera and species of Terebrantia in China.

| FAMILY | GENERA | SPECIES |
|----------------|--------|---------|
| Aeolothripidae | 3 | 18 |
| Melanthripidae | 1 | 2 |
| Merothripidae | 1 | 3 |
| Thripidae | 74 | 290 |

I.1. Family Aeolothripidae Uzel

Aeolothripids recognized by their forewings, which are broad with the apex rounded and usually with shaded and colourless transverse bands. Further, the antennae are 9-segmented; segments III–V are elongate and parallel-sided, and the sensoria on antennal segments III and IV are flat, linear or oval shaped; and the ovipositor is upturned (Nakahara 1991). Members of the Aeolothripidae are distinguished from those of the Melanthripidae and Merothripidae by the sensoria on antennal segments III and IV are linear in most Aeolothripidae with a slight curve around the apex of the segments. Adults and larvae of many species in this family appear to be facultative predators of other small arthropods, and they feed on both floral tissues as well as on thrips and mites that live in flowers (Tyagi *et al.* 2008); whereas in the warmer parts of the world, a considerable number of species are obligate predators. Almost 200 species of Aeolothripidae are recognized worldwide in 23 genera (Mound 2011),

of which 17 species belonging to three genera has been recorded in China. In this paper, *Aeolothrips collaris* is newly recorded for fauna of China based on two females that were collected by the first author on tea from Zhejiang province (Jiuxi, Hangzhou).

Amongst Chinese Aeolothripidae, species of the genus *Aeolothrips* are widely distributed and between them, only *Aeolothrips albicinctus* is ground-living species and the first abdominal tergum in this species is narrow and bears numerous transverse striae; other species are associated with flowers. Moreover, females of two species of *Aeolothrips*, namely *A. fasciatus* and *A. intermedius*, are very similar to each other and it remains unclear if these females all represent the same species. However, the females of *A. fasciatus* have antennal segment III slightly more slender. Males of *A. intermedius* have the tergum IX posteroangular setae shorter than the claspers on this segment, whereas these setae are longer than the claspers in *A. fasciatus*.

Mymarothrips flavidonotus that was first described by Tong and Zhang (1995) has been synonymized with *M. garuda* Ramakrishna and Margabandhu (Mound and Marullo 1998).

***Aeolothrips* Haliday, 1836**

1. *Aeolothrips albicinctus* Haliday, 1836. Distribution: China (Beijing) (Han et al. 1987, 1997a); Iran, Mongolia, Europe, North America.
2. *Aeolothrips collaris* Priesner, 1919. Distribution: China (Zhejiang); France, Albania, Egypt, Cyprus, Canary Islands, Iran, India, Bangladesh, Mongolia.
3. *Aeolothrips eremicola* Priesner, 1938. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993); Egypt.
4. *Aeolothrips fasciatus* (Linnaeus, 1758). Distribution: China (Beijing, Hebei, Inner Mongolia, Henan, Hubei, Hainan, Yunnan, Gansu, Ningxia, Fujian) (Meng 1961; Han et al. 1979; Zhang 1980a; Han and Zhang 1981; Yang et al. 1993; Han 1996, 1997a; Zhang et al. 1999; Huang et al. 2010); Iran, Japan, North Korea, Mongolia, Europe.
5. *Aeolothrips flaviventer* Pelikán, 1983. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993); Mongolia, India, West of Asia, Europe.
6. *Aeolothrips intermedius* Bagnall, 1934. Distribution: China (Xinjiang, Ningxia, Inner Mongolia, Gansu) (Han et al. 1987; Yang et al. 1993; Han 1997a); Iran, Europe.
7. *Aeolothrips kurosawai* Bhatti, 1971. Distribution: China (Yunnan) (Zhang 1980a); Japan.
8. *Aeolothrips luteolus* Kurosawa, 1939. Distribution: China (Hubei) (Han 1997b); Japan.
9. *Aeolothrips melaleucus* (Haliday, 1852). Distribution: China (Beijing, Henan, Inner Mongolia, Shandong, Gansu) (Han et al. 1987; Yang et al. 1993; Han 1997a); Mongolia, North Korea, Europe, North America.
10. *Aeolothrips mongolicus* Pelikán, 1985. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993); Iran, Mongolia.
11. *Aeolothrips xinjiangensis* Han, Pan and Hu, 1987. Distribution: China (Xinjiang, Inner Mongolia) (Han et al. 1987; Yang et al. 1993; Han 1997a).
12. *Aeolothrips xizangensis* Han, 1986. Distribution: China (Tibet) (Han 1986a, 1988, 1997a; Yang et al. 1993).
13. *Aeolothrips yunnanensis* Han, 1986. Distribution:

China (Yunnan) (Han 1986a, 1993b, 1997a).

***Franklinothrips* Back, 1912**

14. *Franklinothrips megalops* (Trybom, 1912). Distribution: China (Hubei, Taiwan) (Han 1997b); Kenya, Spain, Israel, Palestine, Libya, Tunisia, Yemen, Somalia, Kenya, Uganda, Rwanda, Tanzania, South Africa, Mozambique, Angola, Nigeria, southern India.
15. *Franklinothrips suzukii* Okajima, 1979. Distribution: China (Taiwan) (Okajima 1979c; Mound and Reynaud 2005).
16. *Franklinothrips tani* Mirab-balou, Shi and Chen, 2011. Distribution: China (Yunnan) (Mirab-balou et al. 2011a).
17. *Franklinothrips vespiformis* (Crawford, 1909). Distribution: China (Taiwan) (Wang 1993b; zur Strassen 2003); Central America, USA, Bermuda, Puerto Rico, Cuba, Jamaica, Dominican Republic, Trinidad, Mexico, Nicaragua, Honduras, Costa Rica, Panama, Colombia, Surinam, Venezuela, El Salvador, Brazil, Fiji, Japan, Thailand, New Caledonia, Australia (Queensland).

***Mymarothrips* Bagnall, 1928**

18. *Mymarothrips garuda* Ramakrishna and Margabandhu, 1931. Distribution: China (Guangdong, Fujian) (Tong and Zhang 1995; Zhang et al. 1999); India.

I.2. Family Melanthripidae Bagnall

This family includes 65 species in four genera, of which *Melanthrips* with 36 species is the largest (Mound 2011). In China, only two species of the genus *Melanthrips* has been recorded. The members of this family are distinguished by having a pair of lobes with an associated two pairs of setae on the posterior margin of the seventh sternum; and a well-developed pair of trichobothria on the tergum X; transverse sensoria on the antennal segments, and a well developed tentorium in the head.

Melanthrips gracilicornis Maltbaek, listed in the previous checklist (Zhang and Tong 1993c), was synonymized with *Melanthrips fuscus* (Sulzer) by zur Strassen (2003).

***Melanthrips* Haliday, 1836**

19. *Melanthrips fuscus* (Sulzer, 1776). Distribution: China (Jiangsu) (Zhang and Tong 1993c); Iran, Europe, North Africa, Cyprus, Palestine, Egypt.
20. *Melanthrips pallidior* Priesner, 1919. Distribution: China (Jiangsu, Sichuan) (Han 1997a,b); Iran, Russia, Turkey, Palestine, Cyprus, Europe, North Africa.

I.3. Family Merothripidae Hood

This family includes minute thrips, usually with pale brown or yellowish-white bodies (Mound and Marullo 1996). Mound and Kibby (1998) stated the following characters for distinguishing this family: female with a very weakly developed ovipositor; abdominal sternum VIII developed as a pair of lobes; and abdominal tergum X usually with a pair of large trichobothria (Mound and Kibby 1998). This family includes three genera and 15 species (Mound 2011) that are usually found on dead twigs or in leaf litter, where they presumably feed on fungal hyphae (Mound 2011). In China, three species of genus *Merothrips* has been recorded.

***Merothrips* Hood, 1912**

21. *Merothrips indicus* Bhatti and Ananthakrishnan, 1975. Distribution: China (Yunnan, Guangdong, Taiwan) (Chen 1976; Han 1997a); India.

22. *Merothrips laevis* Hood, 1938. Distribution: China (Guangdong, Taiwan) (Chen 1976); India, USA.

23. *Merothrips morgani* Hood, 1912. Distribution: China (Guangdong) (Zhang and Tong 1993c); India, Eastern North America, Hawaii, Kenya, Panama, Australia.

I.4. Family Thripidae Stephens

Thripidae is one of the eight families recognized in the suborder Terebrantia. This family is currently interpreted as comprising more than 2000 described species, divided into four subfamilies, i.e., Dendrothripinae, Panchaetothripinae, Sericothripinae, and Thripinae (Bhatti 1979b, 1989). Amongst them, the Thripinae is the largest group and most of them feed either on plant leaves or on flowers, many being pests, but a few species are predatory. The members of Thripidae can usually be distinguished by the structure of the antennae and slender forewings. In China, 290 species in 74 genera of this family has been recorded (Table 1), belonging to the following four subfamilies:

I.4.1. Subfamily Dendrothripinae Priesner

There are 16 genera and about 100 species listed in this subfamily in the world (Mound 2011), of which 15 species in three genera has been recorded from China. This subfamily is distinguished from others by the following characters (Masumoto 2010): metathoracic endofurca greatly enlarged and reaching into the mesothorax (lyre-shaped), and with basal transverse ridge. This subfamily are small-sized, all leaf feeding insects that show jumping activity associated with large muscles arising from their hind legs and attaching to the enlarged metathoracic furca (Masumoto and Okajima 2003). The recorded species of this group are not usually considered pests in China, although the mulberry thrips, *Pseudodendrothrips mori*, is sometimes a minor problem on trees grown for silkworms, and the privet thrips, *Dendrothrips ornatus*, can cause some distortion to the leaves of its host plant (Reitz et al. 2011).

***Asprothrips* Crawford, 1938**

24. *Asprothrips fuscipennis* Kudô, 1984. Distribution: China (Guangdong, Fujian) (Zhang and Tong 1988; Zhang et al. 1999); Japan.

***Dendrothrips* Uzel, 1895**

25. *Dendrothrips guttatus* Wang, 1993. Distribution: China (Taiwan) (Wang 1993b).

26. *Dendrothrips homalii* Zhang and Tong, 1988. Distribution: China (Guangdong, Hainan) (Zhang and Tong 1988).

27. *Dendrothrips maltimaculatus* Nonaka and Okajima, 1991. Distribution: China (Taiwan) (Nonaka and Okajima 1991; Zhang and Tong 1993c).

28. *Dendrothrips mendax* Bhatti, 1971. Distribution: China (Hainan, Guangxi, Fujian, Guangdong) (Zhang 1982b; Zhang and Tong 1988; Han 1993a; Zhang et al. 1999); India.

29. *Dendrothrips minowai* Priesner, 1935. Distribution:

China (Guangdong, Hunan, Hainan, Guangxi, Guizhou, Fujian) (Zhang 1982b; Zhang and Tong 1988; Han 1993b, 1997a; Zhang et al. 1999); North Korea, Japan.

30. *Dendrothrips ornatus* (Jablonowski, 1894). Distribution: China (Beijing, Liaoning, Inner Mongolia) (Yang et al. 1993; Han 1997a; Reitz et al. 2011); Russia, Europe, USA.

31. *Dendrothrips sexmaculatus* Bagnall, 1916. Distribution: China (Hainan) (Han 1997a); India, Sri Lanka, South America.

32. *Dendrothrips stannardi* (Ananthakrishnan, 1958). Distribution: China (Yunnan, Hainan, Sichuan, Fujian) (Zhang 1982b; Zhang and Tong 1988; Han 1993a, 1997a; Zhang et al. 1999); India.

***Pseudodendrothrips* Schmutz, 1913**

33. *Pseudodendrothrips bhattii* Kudô, 1984. Distribution: China (Zhejiang, Hainan, Guangdong) (Zhang and Tong 1988); Japan.

34. *Pseudodendrothrips fumosus* Chen, 1980. Distribution: China (Taiwan, Hainan, Fujian) (Chen 1980; Zhang and Tong 1988; Zhang et al. 1999).

35. *Pseudodendrothrips lateralis* Wang, 1993. Distribution: China (Taiwan) (Wang 1993b).

36. *Pseudodendrothrips mori* (Niwa, 1908). Distribution: China (Hebei, Jiangsu, Zhejiang, Fujian, Guangdong, Henan, Hubei, Hunan, Hainan, Guangxi, Taiwan) (Meng 1961; Chen 1980; Zhang 1982b; Zhang and Tong 1988; Han 1997a; Zhang et al. 1999; Reitz et al. 2011); Iran, Korea, Japan, USA, Australia, Italy, Chile.

37. *Pseudodendrothrips puerariae* Zhang and Tong, 1990. Distribution: China (Yunnan) (Zhang and Tong 1990b).

38. *Pseudodendrothrips ulmi* Zhang and Tong, 1988. Distribution: China (Zhejiang) (Zhang and Tong 1988).

I.4.2. Subfamily Panchaetothripinae Bagnall

A total of about 125 species in 35 genera are currently recognized in this subfamily (Mound 2011). This subfamily is distinguished by the following characters (Masumoto 2010): head and legs usually strongly reticulate; terminal antennal segment usually very slender and acute, apex needlelike; foreing first vein usually fused with costal vein near base; meso- and metathoracic endofurca without spinula; and body strongly sclerotized. In China, 32 species in 13 genera has been recorded from this subfamily. However, several of these species are more commonly found on mature leaves of shrubby plants rather than on young leaves, where their feeding damage is accompanied by soiling due to sooty moulds that grow on the honeydew secreted by some homopteran insects (Trdan et al. 2005). Despite this, some species, such as members of *Caliothrips*, can be pests on crop seedlings, whereas others are usually found only on grasses (Kudô 1992; Mound and Marullo 1996; Reitz et al. 2011).

In this subfamily, three following species are previously recorded in China but now synonymized: *Copidothrips formosus* Hood with *C. octarticulatus* Schmutz (syn. by Bhatti 1990b); *Helionothrips compressus* Hood with *Helionothrips aino* (Ishida) (syn. by Wilson 1975); and *Phibalothrips basis* Chen with *Phibalothrips peringueyi* (Faure) (syn. by Kudô 1992).

Anisopilothrips Stannard and Mitri, 1962

39. *Anisopilothrips venustulus* (Priesner, 1923). Distribution: China (Guangdong, Yunnan, Taiwan, Hong Kong) (Chen 1980; Zhang 1980b; Zhang and Tong 1993a; Han 1997a); USA, Florida, Bermuda, Puerto Rico, Jamaica, Dominican, Trinidad, Surinam, Japan, Malaya, Australia, Fiji.

Astrothrips Karny, 1921

40. *Astrothrips aucubae* Kurosawa, 1932. Distribution: China (Guangdong, Hainan, Guangxi, Guizhou, Fujian, Taiwan) (Zhang 1980b; Han 1993a, b, 1997a; Wang 1993b; Zhang and Tong 1993a; Zhang et al. 1999); Japan, Philippines.

41. *Astrothrips chisinliaensis* Chen, 1980. Distribution: China (Taiwan) (Chen 1980, 1981).

42. *Astrothrips strasseni* Kudô, 1979. Distribution: China (Yunnan, Taiwan) (Zhang and Tong 1993a, c); India.

Caliothrips Daniel, 1904

43. *Caliothrips fasciatus* (Pergande, 1895). Distribution: China (Fujian, Fuzhou, Guangdong) (Wilson 1975; Zhang 1980b; Han 1997a; Zhang et al. 1999; Huang et al. 2011, Reitz et al. 2011); Japan, USA, Mexico, Brazil, Puerto Rico.

44. *Caliothrips indicus* (Bagnall, 1913). Distribution: China (Guangdong, Yunnan) (Han and Cui 1992; Han 1997a; Huang et al. 2011); India, Himalayas.

45. *Caliothrips insularis* (Hood, 1928). Distribution: China (Beijing, Hebei) (Huang et al. 2011); Bermuda, Puerto Rico, Cuba, Jamaica, Trinidad, Panama, Ecuador, Mauritius, Brazil, Costa Rica, Dominica, USA.

46. *Caliothrips tongi* Mound, Zhang and Bei, 2011. Distribution: China (Zhejiang, Fujian) (Mound et al. 2011).

Copidothrips Hood, 1954

47. *Copidothrips octarticulatus* Schmutz, 1913. Distribution: China (Guangxi, Taiwan) (Zhang 1980b; Chen 1981; Han 1997a); Gilbert Islands.

Elixothrips Stannard and Mitri, 1962

48. *Elixothrips brevisetis* (Bagnall, 1919). Distribution: China (Guangdong, Taiwan) (Zhang 1980b; Chen 1981; Han 1997a); Philippines, Guam.

Helionothrips Bagnall, 1932

49. *Helionothrips aino* (Ishida, 1931). Distribution: China (Taiwan, Jiangxi, Fujian, Guangdong, Guangxi, Yunnan, Henan, Hainan, Shaanxi) (Zhang 1980b; Chen 1981; Han 1993a, b, 1997a; Zhang and Tong 1993a; Zhang et al. 1999; Feng et al. 2007); Korea, Japan.

50. *Helionothrips annosus* Wang, 1993. Distribution: China (Taiwan) (Wang 1993b; Feng et al. 2007).

51. *Helionothrips brunneipennis* Bagnall, 1915. Distribution: China (Yunnan, Guangdong, Hainan) (Zhang 1980b; Feng et al. 2007); Sri Lanka.

52. *Helionothrips cephalicus* Hood, 1954. Distribution: China (Sichuan, Taiwan) (Zhang 1980b; Chen 1981; Han 1993a, 1997b; Zhang et al. 1999; Feng et al. 2007).

53. *Helionothrips communis* Wang, 1993. Distribution: China (Taiwan) (Wang 1993b; Feng et al. 2007).

54. *Helionothrips errans* (Williams, 1916). Distribution: China (Taiwan, Yunnan, Guangdong, Guangxi, Henan)

(Zhang 1980b; Chen 1981; Zhang and Tong 1993a; Han 1997a; Zhang et al. 1999; Feng et al. 2007); Korea, Japan, England, Africa, Kenya, USSR.

55. *Helionothrips linderæ* Kudô, 1992. Distribution: China (Taiwan) (Feng et al. 2007); Japan.

56. *Helionothrips mube* Kudô, 1992. Distribution: China (Shanxi, Taiwan) (Feng et al. 2007); Japan.

57. *Helionothrips parvus* Bhatti, 1968. Distribution: China (Guangxi, Huaping) (Feng et al. 2007); India.

58. *Helionothrips ponkikiri* Kudô, 1992. Distribution: China (Sichuan, Guangxi) (Han 1997b; Feng et al. 2007); Japan.

59. *Helionothrips shennongjiaensis* Feng, Yang, and Zhang, 2007. Distribution: China (Hubei) (Feng et al. 2007).

60. *Helionothrips unitatus* Chen, 1981. Distribution: China (Taiwan, Hong Kong) (Chen 1981; Feng et al. 2007).

Heliothrips Haliday, 1836

61. *Heliothrips haemorrhoidalis* (Bouché, 1833). Distribution: China (Taiwan, Fujian, Guangdong, Guangxi, Hainan, Sichuan) (Kudô 1974; Zhang 1980b; Chen 1980, 1981; Han 1993a, 1997a; Zhang and Tong 1993a; Zhang et al. 1999; Huang et al. 2010); widespread around the world.

Monilothrips Moulton, 1929

62. *Monilothrips kemp* Moulton, 1929. Distribution: China (Yunnan, Sichuan, Taiwan) (Chen 1981; Han 1997a, b); India, USA, California, Africa.

Panchaetothrips Bagnall, 1912

63. *Panchaetothrips indicus* Bagnall, 1912. Distribution: China (Guangdong, Hainan, Yunnan, Guangxi) (Zhang 1980b; Zhang and Tong 1993a; Han 1997a); India, Bangladesh, Thailand.

Phibalothrips Hood, 1918

64. *Phibalothrips peringueyi* (Faure, 1925). Distribution: China (Taiwan, Henan, Guangdong, Yunnan, Fujian) (Kudô 1974; Zhang 1980b; Chen 1981; Han and Cui 1992; Han 1993a, 1997a; Zhang and Tong 1993a; Zhang et al. 1999); South Africa, India, Japan.

Rhipiphorothrips Morgan, 1913

65. *Rhipiphorothrips africanus* Wilson, 1975. Distribution: China (Taiwan) (Chen 1981); Africa.

66. *Rhipiphorothrips concoloratus* Zhang and Tong, 1993. Distribution: China (Yunnan) (Zhang and Tong 1993a).

67. *Rhipiphorothrips cruentatus* Hood, 1919. Distribution: China (Hainan, Taiwan) (Zhang 1980b; Chen 1981; Zhang and Tong 1993a; Han 1997a; Huang et al. 2010; Reitz et al. 2011); Iran, Afghanistan, Burma, West Bengal, Myanmar, Oman, India, Sri Lanka, Pakistan, Bangladesh.

68. *Rhipiphorothrips pulchellus* Morgan, 1913. Distribution: China (Hainan, Guangxi, Taiwan) (Zhang 1980b; Chen 1981; Zhang and Tong 1993a; Huang et al. 2010); Sri Lanka, India, Philippines, Java, Indonesia, Burma.

Selenothrips Karny, 1911

69. *Selenothrips rubrocinctus* (Giard, 1901).

Distribution: China (Yunnan, Hainan, Guangdong, Taiwan, Fujian, Zhejiang) (Zhang 1980b; Chen 1981; Zhang and Tong 1993a; Han 1993b, 1997a, b; Zhang *et al.* 1999; Huang *et al.* 2010; Reitz *et al.* 2011); it is now found throughout the tropics.

Zaniothrips Bhatti, 1967

70. *Zaniothrips ricini* Bhatti, 1967. **Distribution:** China (Guangdong) (Han 1997a); India.

1.4.3. Subfamily Sericothripinae Karny

Currently 140 species of three genera in this subfamily are recognized in the world (Mound 2011). Although six genera of this subfamily have been recorded in Chinese literature, three of them have been synonymized (Wang 2007). At present 27 species in three genera of this subfamily are known in China. Amongst the Chinese Sericothripine, *Sericothrips houji* is widely distributed in this country and has a high population (in two different morphs: macropterous and micropterous) on clover (or trefoil). Therefore, it is necessary to study the biology of this species.

The following species of this subfamily, previously recorded in China, have been synonymized recently: *Neohydatothrips populi* Han with *N. elaeagni* Kudô (syn. by Wang 2007), *Zonothrips luridus* Ananthakrishnan with *Neohydatothrips plynopygus* (Karny) (syn. by Wang 2007) and *Hydatothrips jiawensis* Chou and Feng with *H. proximus* Bhatti (syn. by Mirab-balou *et al.* 2011c). In addition, *Sericothrips dentatus* Steinweden and Moulton is now known as *Hydatothrips dentatus* (Steinweden and Moulton), and *Hydatothrips (Kazinothrips) xestosternitus* Han and Cui as *Neohydatothrips xestosternitus* Han and Cui (Kudô 1997). *Sussericothrips* Han was synonymized with *Sericothrips* Haliday (Mound and Tree 2009) and *Sericothrips melilotus* Han is now known as *Sericothrips houji* (Chou and Feng 1990) (Mirab-balou *et al.* 2011c).

Hydatothrips Karny, 1913

71. *Hydatothrips abdominalis* (Kurosawa, 1937). **Distribution:** China (Zhejiang) (Mirab-balou *et al.* 2011c); Japan.

72. *Hydatothrips aureus* Bhatti, 1973. **Distribution:** China (Hainan, Guangdong, Fujian, Hubei, Sichuan) (Zhang 1982b; Zhang *et al.* 1999); India.

73. *Hydatothrips boerhaaviae* Seshadri and Ananthakrishnan, 1954. **Distribution:** China (Beijing) (Feng 1992); India.

74. *Hydatothrips chinensis* Chou and Feng, 1990. **Distribution:** China (Guizhou) (Chou and Feng 1990).

75. *Hydatothrips dentatus* (Steinweden and Moulton, 1930). **Distribution:** China (Beijing, Zhejiang, Fujian, Henan, Fujian, Jiangxi) (Han *et al.* 1990; Han 1993a, 1997a, b; Zhang *et al.* 1999).

76. *Hydatothrips ekasi* Kudô, 1991. **Distribution:** China (Taiwan) (Wang 1994a, 2007); Japan.

77. *Hydatothrips flavidus* Wang, 2007. **Distribution:** China (Taiwan) (Wang 2007).

78. *Hydatothrips funiuiensis* Duan, Li, Yang and Yan, 1998. **Distribution:** China (Henan) (Duan *et al.* 1998a).

79. *Hydatothrips heteraureus* (Han et Zhao, 1990). **Distribution:** China (Wuhan, Hunan, Sichuan) (Han *et al.*

1990, 1993b, 1997a; Han and Cui 1992; Tang *et al.* 2002).

80. *Hydatothrips liquidambara* Chen, 1977. **Distribution:** China (Taiwan) (Chen 1977a; Chen 1980; Wang 1994a; Kudô 1997; Wang 2007); Japan.

81. *Hydatothrips longjingensis* Mirab-balou, Hu, Feng, and Chen, 2011. **Distribution:** China (Zhejiang) (Mirab-balou *et al.* 2011c).

82. *Hydatothrips meriposa* Wang, 2007. **Distribution:** China (Taiwan) (Wang 2007).

83. *Hydatothrips proximus* Bhatti, 1973. **Distribution:** China (Guizhou, Beijing, Shaanxi) (Chou and Feng 1990; Feng 1992); India.

Neohydatothrips John, 1929

84. *Neohydatothrips elaeagni* Kudô, 1991. **Distribution:** China (Sichuan) (Han 1991a; Han and Cui 1992; Wang 2007); Japan.

85. *Neohydatothrips epipactis* (Kurosawa, 1941). **Distribution:** China (Manchuria) (Kurosawa 1941).

86. *Neohydatothrips gracilicornis* (Williams, 1916). **Distribution:** China (Inner Mongolia, Ningxia) (Yang *et al.* 1993); Europe, Morocco, Turkey, Israel, Iran.

87. *Neohydatothrips gracilipes* (Hood, 1924). **Distribution:** China (Taiwan) (Wang 2007); Thailand, India, Australia, Mexico, Costa Rica, Trinidad, Jamaica.

88. *Neohydatothrips medius* Wang, 1994. **Distribution:** China (Taiwan) (Wang 1994a; Wang 2007); Malaysia.

89. *Neohydatothrips plynopygus* (Karny, 1925). **Distribution:** China (Taiwan) (Wang 2007); India.

90. *Neohydatothrips samayunkur* Kudô, 1995. **Distribution:** China (Taiwan) (Wang 2007); Japan, US (Florida, Hawaii), Costa Rica, Australia, Sri Lanka, Kenya.

91. *Neohydatothrips surrufus* Wang, 2007. **Distribution:** China (Taiwan) (Wang 2007).

92. *Neohydatothrips tabulifer* (Priesner, 1935). **Distribution:** China (Taiwan) (Wang 2007); Japan, Malaysia.

93. *Neohydatothrips tadzhicus* (Pelikan, 1964). **Distribution:** China (Inner Mongolia, Ningxia) (Yang *et al.* 1993); Iran, Tajikistan.

94. *Neohydatothrips trypherus* Han, 1991. **Distribution:** China (Hainan) (Han 1991a, 1997a).

95. *Neohydatothrips xestosternitus* Han and Cui, 1991. **Distribution:** China (Sichuan) (Han and Cui 1991, 1992; Han 1997a; Kudô 1997); Nepal.

Sericothrips Haliday, 1836

96. *Sericothrips cingulatus* Hind, 1902. **Distribution:** China (Fujian, Yunnan, Tibet) (Zhang *et al.* 1999); India, Europe.

97. *Sericothrips houji* (Chou and Feng, 1990). **Distribution:** China (Hebei, Shaanxi, Henan, Gansu, Ningxia, Inner Mongolia, Beijing, Shandong, Zhejiang) (Chou and Feng 1990; Han 1991b, 1997a; Yang *et al.* 1993; Mirab-balou *et al.* 2011c).

1.4.4. Subfamily Thripinae Stephens

This subfamily includes about 1700 species in 220 genera worldwide (Mound 2011). Of these, 216 species in 55 genera are here recorded from China. The members of this subfamily are distinguished by the following character states: head and legs usually not reticulate,

if reticulate then terminal antennal segment not acute, and forewing first vein not fused to costa near base; meso- and metasternum with or without spinula; and body usually not strongly sclerotized (Masumoto 2010). They live in flowers, on leaves, and some species live in both habitats, particularly the important pest species, such as *Frankliniella occidentalis*, *Thrips tabaci*, *Thrips palmi*, *Scirtothrips dorsalis*, *Stenchaetothrips biformis* and *Megalurothrips distalis* (Reitz et al. 2011); a few species of genus *Scolothrips* are known as obligate predators. The quarantine pest thrips, *Echinothrips americanus* was recently found in Beijing, China (Mirab-balou et al. 2010b, Wei et al. 2010). This polyphagous thrips has a wide range of host plants and may have spread to other places in this country (Mirab-balou et al. 2010b). Unfortunately, the presence of most taxa in this subfamily is dubious and unclear in China, especially the species of *Frankliniella* and *Megalurothrips* that requires further study. In this paper, *Odontothrips meliloti* Priesner is newly recorded for fauna of China based on seven females and three males that were collected on alfalfa from Shaanxi province. This species is readily distinguished from the other species in China by lack of stout claw on fore tibia; distal fore tarsal segment with one or two small hooks or tubercles on inner margin; median area of pronotum of males and females without lines of sculpture; and the male genitalia with 3-4 pairs of endothecal spines.

Anaphothrips Uzel, 1895

98. *Anaphothrips floralis* Karny, 1922. Distribution: China (Guangdong) (Zhang and Tong 1992a); Vietnam.

99. *Anaphothrips obscurus* Müller, 1776. Distribution: China (Widespread in China) (Han et al. 1979; Zhang 1982b; He et al. 1992; Han and Cui 1992; Han 1993a, 1997a,b; Yang et al. 1993; Zhang et al. 1999; Reitz et al. 2011); widespread around the world.

100. *Anaphothrips populi* Zhang and Tong, 1992. Distribution: China (Henan, Gansu) (Zhang and Tong 1992a).

101. *Anaphothrips sudanensis* Trybom, 1911. Distribution: China (Taiwan, Wuhan, Jiangsu, Zhejiang, Fujian, Hubei, Hunan, Guangdong, Hainan, Guangxi, Sichuan, Guizhou, Yunnan) (Kudô 1974; Chen 1979c; Han and Cui 1992; Han 1993a,b, 1997a, b; Zhang et al. 1999; Tang et al. 2002; Reitz et al. 2011); worldwide in tropical and sub-tropical countries.

Anascirtothrips Bhatti, 1961

102. *Anascirtothrips arorai* Bhatti, 1961. Distribution: China (Hainan, Taiwan) (Han 1997a; Mound and Wang 2000); Southern Florida, India, Northern Australia.

103. *Anascirtothrips discordiae* Chen and Lu, 1994. Distribution: China (Taiwan) (Chen and Lu 1994; Mound and Wang 2000).

Aptinothrips Haliday, 1836

104. *Aptinothrips elegans* Priesner, 1924. Distribution: China (Taiwan) (Mirab-balou et al. 2011d); Iran, Europe, Moldavia, Ukraine, Azerbaijan, Kazakhstan, Russia, Costa Rico.

105. *Aptinothrips rufus* Haliday, 1836. Distribution: China (Inner Mongolia, Ningxia, Zhejiang) (Yang et al.

1993; Mirab-balou et al. 2011d); Iran, Europe, Costa Rico.

106. *Aptinothrips styliifer* Trybom, 1894. Distribution: China (Tibet, Ningxia, Gansu, Shandong) (Han and Zhang 1981; Han 1988, 1997a; Yang et al. 1993; Reitz et al. 2011; Mirab-balou et al. 2011d); Iran, Estonia, Russia, Europe.

Arorathrips Bhatti, 1990

107. *Arorathrips mexicanus* (Crawford, 1909). Distribution: China (Guangdong, Zhejiang, Shaanxi) (Zhang and Tong 1996); North America, Mexico, Panama, Cuba, Brazil, West Indies, Africa, Australia, Philippines.

Ayyaria Karny, 1927

108. *Ayyaria chaetophora* Karny, 1927. Distribution: China (Wuhan, Guangdong, Hainan, Guangxi, Yunnan, Taiwan, Fujian) (Takahashi 1936; Zhang 1982b; Han 1997a,b; Zhang et al. 1999; Tang et al. 2002); Japan, India, Philippines.

Bathrips Bhatti, 1962

109. *Bathrips ipomoeae* (Zhang, 1981). Distribution: China (Guangdong, Fujian) (Zhang 1981, 1982b; Zhang et al. 1999).

110. *Bathrips jasminae* Ananthakrishnan 1968. Distribution: China (Taiwan) (Wang 2002); India.

111. *Bathrips melanicornis* (Shumsher 1946). Distribution: China (Fujian, Taiwan) (Chen 1979c; 1980, Han 1993a; Zhang et al. 1999); India.

Bolacothrips Uzel, 1895

112. *Bolacothrips graminis* (Priesner, 1930). Distribution: China (Taiwan) (Wang 2002); Egypt.

113. *Bolacothrips striatopennatus* (Schmütz 1913). Distribution: China (Zhejiang, Taiwan) (Zhang and Tong 1996); India, South Africa, Hawaii, and Japan.

Bregmatothrips Hood, 1912

114. *Bregmatothrips dimorphus* (Priesner, 1919). Distribution: China (Beijing, Gansu) (Han 1997a); Ukraine, Yugoslavia, France, South Africa.

Ceratothripoides Bagnall, 1918

115. *Ceratothripoides brunneus* Bagnall, 1918. Distribution: China (Tibet) (Zhang and Tong 1996); West Africa.

Chaetanaphothrips Priesner, 1926

116. *Chaetanaphothrips leeuweni* (Karny, 1914). Distribution: China (Taiwan) (Wang 2002); India, Indonesia, Guam, Dominica.

117. *Chaetanaphothrips longisetis* Nonaka and Okajima, 1992. Distribution: China (Taiwan) (Nonaka and Okajima 1992).

118. *Chaetanaphothrips machili* Hood, 1954. Distribution: China (Taiwan, Fujian, Hainan, Guangdong) (Pitkin 1977; Zhang 1982b; Zhang et al. 1999); Japan.

119. *Chaetanaphothrips orchidii* (Moulton, 1907). Distribution: China (Guangdong, Hainan, Taiwan) (Zhang 1982b; Han 1997a); Japan, Burma, Nepal, India, Malaysia, Sri Lanka, Indonesia, Mexico, Costa Rica, Ecuador, Europe, North America, California.

120. *Chaetanaphothrips querci* Kudô, 1985.

Distribution: China (Taiwan) (Wang 2002); Japan.

121. *Chaetanaphothrips signipennis* (Bagnall, 1914). **Distribution:** China (Hainan, Guangdong) (Zhang 1982b); India, Trinidad, Indonesia, Sri Lanka, Brazil, Panama, Costa Rica, Honduras, Hawaii, Fiji, Australia, New Guinea, Philippines, Ceylon, Mexico.

122. *Chaetanaphothrips theiperdus* Karny, 1921. **Distribution:** China (Fujian, Taiwan, Guangdong) (Pitkin 1977; Chen 1980; Zhang et al. 1999).

***Chilothrips* Hood, 1916**

123. *Chilothrips strobilus* Tong and Zhang, 1994. **Distribution:** China (Liaoning) (Tong and Zhang 1994).

***Chirothrips* Haliday, 1836**

124. *Chirothrips aculeatus* Bagnall, 1927. **Distribution:** China (Zhejiang) (Mirab-balou et al. 2010a); Western Palearctic (excluding Scandinavia and North Africa), Iran.

125. *Chirothrips africanus* Priesner, 1932. **Distribution:** China (Taiwan, Shaanxi, Jiangzi, Xizang) (Kudô 1974; Feng and Li 1996); India, Uzbekistan, Yemen, Sudan, Ethiopia.

126. *Chirothrips choui* Feng and Li, 1996. **Distribution:** China (Shaanxi, Gansu) (Feng and Li 1996).

127. *Chirothrips cuneiceps* Hood, 1940. **Distribution:** China (Manchuria) (Maddison 1993); USA.

128. *Chirothrips manicatus* (Haliday, 1836). **Distribution:** China (Hebei, Liaoning, Jilin, Henan, Ningxia, Taiwan, Fujian, Gansu; Inner Mongolia) (Yang et al. 1993; Han 1993a, 1997a; Zhang et al. 1999); Iran, Korea, Japan, Mongolia, Europe, North America, Hawaii, Argentina, Australia, New Zealand.

129. *Chirothrips tenuicauda* zur Strassen, 1963. **Distribution:** China (Inner Mongolia, Ningxia) (Yang et al. 1993); Mongolia.

***Craspedothrips* zur Strassen, 1966**

130. *Craspedothrips minor* (Bagnall, 1921). **Distribution:** China (Hainan, Yunnan, Taiwan) (Bhatti 1990b); India, Indonesia.

***Ctenothrips* Franklin, 1907**

131. *Ctenothrips cornipennis* Han, 1997. **Distribution:** China (Sichuan) (Han 1997b).

132. *Ctenothrips distinctus* (Uzel, 1895). **Distribution:** China (Shandong) (Han 1997a); Russia, Siberian, Ukraine, Czech, Slovakia, Finland, Sweden, Netherlands, Switzerland.

133. *Ctenothrips guizhouensis* Xie, Zhang and Li, 2011. **Distribution:** China (Guizhou) (Xie et al. 2011).

134. *Ctenothrips kwanzanensis* Takahashi, 1937. **Distribution:** China (Taiwan) (Takahashi 1937).

135. *Ctenothrips leionotus* Tong and Zhang, 1992. **Distribution:** China (Hubei) (Tong and Zhang 1992).

136. *Ctenothrips taibaishanensis* Feng, Zhang and Wang, 2003. **Distribution:** China (Shaanxi) (Feng et al. 2003).

137. *Ctenothrips transeolineae* Chen, 1979. **Distribution:** China (Taiwan) (Chen 1979a).

***Danothrips* Bhatti, 1971**

138. *Danothrips dianellae* Zhang and Tong, 1991. **Distribution:** China (Guangdong) (Zhang and Tong 1991).

139. *Danothrips sakimurai* Chen, 1979. **Distribution:**

China (Taiwan) (Chen 1979b).

140. *Danothrips theivorus* (Karny, 1921). **Distribution:** China (Hainan, Guangdong) (Zhang 1982b); Indonesia, Java.

141. *Danothrips trifasciatus* Sakimura, 1975. **Distribution:** China (Taiwan) (Anonymous 2011); Hawaii, Sumatra, Caribbean Islands.

142. *Danothrips vicinus* Chen, 1979. **Distribution:** China (Taiwan) (Chen 1979b).

***Dendrothripoides* Bagnall, 1923**

143. *Dendrothripoides innoxius* (Karny, 1914). **Distribution:** China (Fujian, Taiwan, Guangdong, Yunnan, Hainan) (Zhang et al. 1999); South America, Panama, Caribbean Islands.

144. *Dendrothripoides poni* Kudô, 1977. **Distribution:** China (Yunnan) (Han 1997a); Thailand.

***Dichromothrips* Priesner, 1932**

145. *Dichromothrips corbetti* (Priesner, 1936). **Distribution:** China (Taiwan) (Anonymous 2011; Reitz et al. 2011); Malaysia.

146. *Dichromothrips smithi* (Zimmermann, 1900). **Distribution:** China (Guangdong, Taiwan) (Han 1997a; Reitz et al. 2011); Japan, India, Indonesia, Australia.

***Drepanothrips* Uzel, 1895**

147. *Drepanothrips reuteri* Uzel, 1895. **Distribution:** China (Inner Mongolia, Ningxia) (Yang et al. 1993; Reitz et al. 2011); Iran, Russia, Finland, Czech.

***Echinothrips* Moulton, 1911**

148. *Echinothrips americanus* Morgan, 1913. **Distribution:** China (Beijing, Shaanxi, Taiwan) (Mirab-balou et al. 2010b); North America extending from Florida to New York and Iowa, Florida, USA, Hawaii, Canada, Europe, Russia, Thailand.

***Eremiothrips* Priesner, 1950**

149. *Eremiothrips antilope* (Priesner, 1923). **Distribution:** China (Inner Mongolia, Ningxia) (Yang et al. 1993); Iran, Egypt, Sudan, Morocco, Palestine, Saudi Arabia, India.

150. *Eremiothrips arya* (zur Strassen, 1975). **Distribution:** China (Inner Mongolia, Ningxia) (Yang et al. 1993; Han 1996); Iran.

***Ernothrips* Bhatti, 1967**

151. *Ernothrips lobatus* Bhatti, 1967. **Distribution:** China (Taiwan, Guangdong, Hainan, Hunan) (Han 1993b, 1997a); India.

152. *Ernothrips longitudinalis* Zhou, Zhang and Feng, 2008. **Distribution:** China (Henan, Hubei, Shaanxi) (Zhou et al. 2008).

***Exothrips* Priesner, 1939**

153. *Exothrips sacchari* (Moulton, 1936). **Distribution:** China (Yunnan) (Zhang and Tong, 1996); Philippines.

***Frankliniella* Karny, 1910**

154. *Frankliniella cephalica* (Crawford, 1910).

Distribution: China (Taiwan) (Wang 2002; Wang et al. 2010); Japan, Bermuda, Caribbean Islands, Central America, Mexico, USA.

155. *Frankliniella gossypii* (Shiraki, 1912). **Distribution:** China (Taiwan) (Takahashi 1936; Zhang and Tong 1993c); Japan.

156. *Frankliniella hainanensis* Zheng, Zhang and Feng, 2009. **Distribution:** China (Hainan) (Zheng et al. 2009).

157. *Frankliniella intonsa* (Trybom, 1895). **Distribution:** China (Widespread in China) (Meng 1961; Chen 1979c; Zhang 1982b; He et al. 1992; Han and Cui 1992; Han 1988, 1993a, b, 1997a,b; Yang et al. 1993; Zhang et al. 1999; Wang 2002; Tang et al. 2002; Zhang et al. 2004b; Wang et al. 2010; Reitz et al. 2011); widespread around the world.

158. *Frankliniella lilivora* Kurosawa, 1937. **Distribution:** China (Taiwan) (Takahashi 1937; Zhang and Tong 1993c); Japan.

159. *Frankliniella occidentalis* (Pergande, 1895). **Distribution:** China (Guangdong, Hainan, Anhui, Fujian, Jiangsu, Shandong, Guangxi, Guizhou, Henan, Hubei, Shaanxi, Sichuan, Yunnan, Zhejiang, Chongqing, Beijing) (Cheng et al. 2006; Reitz et al. 2011); widespread around the world.

160. *Frankliniella pallida* (Uzel, 1895). **Distribution:** China (Shaanxi) (Feng 1992); Iran, Austria, France, Tunisia, Czech.

161. *Frankliniella schultzei* (Schmutz, 1910). **Distribution:** China (Taiwan) (Wang 2002; Wang et al. 2010; Reitz et al. 2011); widespread around the world.

162. *Frankliniella tenuicornis* (Uzel, 1895). **Distribution:** China (Widespread in China) (Han et al. 1979; Zhang 1982b; He et al. 1992; Han and Cui 1992; Han 1993b, 1997a; Yang et al. 1993; Zhang et al. 1999; Tang et al. 2002; Zhang et al. 2004b; Reitz et al. 2011); Iran, Czech, USA.

163. *Frankliniella tritici* (Fitch, 1855). **Distribution:** China (Taiwan) (Moulton 1948; Zhang and Tong 1993c); USA, Japan.

164. *Frankliniella williamsi* Hood, 1915. **Distribution:** China (Taiwan) (Chang 1987; Wang 2002; Wang et al. 2010); Philippines, Thailand, Central America, Caribbean Islands, Jamaica, Mexico, USA.

165. *Frankliniella zizaniophila* Han and Zhang 1982. **Distribution:** China (Zhejiang, Jiangsu, Fujian, Hubei, Jingzhou) (Han and Zhang 1982a; Han 1997a; Zhang et al. 1999; Zhang et al. 2004b).

***Fulmekiola* Karny, 1925**

166. *Fulmekiola serrata* (Kobus, 1892). **Distribution:** China (Jiangsu, Zhejiang, Fujian, Taiwan, Guangdong, Hainan, Guangxi, Hunan, Sichuan, Yunnan) (Zhang 1982b; Han 1997a, b; Zhang et al. 1999; Reitz et al. 2011); Japan, Vietnam, Pakistan, Bangladesh, India, Philippines, Malaysia, Indonesia, Trinidad.

***Graminotherips* Zhang and Tong, 1992**

167. *Graminotherips cyperi* Zhang and Tong, 1992. **Distribution:** China (Hainan, Guangdong) (Zhang and Tong 1992b).

168. *Graminotherips longisetosus* Zhang and Tong, 1992. **Distribution:** China (Guangxi) (Zhang and Tong 1992b).

***Hengduanothrips* Han and Cui, 1992**

169. *Hengduanothrips chrysus* Han and Cui, 1992. **Distribution:** China (Yunnan) (Han and Cui 1992; Han 1997a).

***Javathrips* Bhatti, 1978**

170. *Javathrips musae* Zhang and Tong, 1990. **Distribution:** China (Yunnan) (Zhang and Tong 1990b).

***Lefroyothrips* Priesner, 1938**

171. *Lefroyothrips lefroyi* (Bagnall, 1913). **Distribution:** China (Jiangxi, Fujian, Guangdong, Guizhou, Yunnan, Taiwan, Zhejiang) (Zhang 1982b; Han 1993a, b, 1997a; Zhang et al. 1999; Reitz et al. 2011); Japan, India, Indonesia.

***Megalurothrips* Bagnall, 1915**

172. *Megalurothrips basissetae* Han and Cui, 1992. **Distribution:** China (Sichuan) (Han and Cui 1992).

173. *Megalurothrips distalis* (Karny, 1913). **Distribution:** China (Widespread in China) (Takahashi 1936; Kudô 1974; Chen 1979c; Han and Zhang 1981; Zhang 1982b; He et al. 1992; Han and Cui 1992; Han 1988, 1993a, b, 1997a, b; Zhang et al. 1999; Tang et al. 2002; Reitz et al. 2011); Iran, Korea, India, Indonesia, Sri Lanka, Philippines, Fiji.

174. *Megalurothrips equaletae* Feng, Chao and Ma, 1999. **Distribution:** China (Shaanxi) (Feng et al. 1999).

175. *Megalurothrips formosae* (Moulton, 1928). **Distribution:** China (Taiwan) (Han 1997a); Indonesia.

176. *Megalurothrips grisbrunneus* Feng, Chou and Li 1995. **Distribution:** China (Shaanxi) (Feng et al. 1995).

177. *Megalurothrips guizhouensis* Zhang, Feng and Zhang, 2004. **Distribution:** China (Guizhou) (Zhang et al. 2004a).

178. *Megalurothrips haopingensis* Feng, Chao and Ma, 1999. **Distribution:** China (Shaanxi) (Feng et al. 1999).

179. *Megalurothrips peculiaris* (Bagnall, 1918). **Distribution:** China (Hubei, Sichuan) (Han 1997b); India.

180. *Megalurothrips typicus* Bagnall, 1915. **Distribution:** China (Wuhan, Taiwan) (Han 1997a; Tang et al. 2002); India, Indonesia, Philippines, Guanda.

181. *Megalurothrips usitatus* (Bagnall, 1913). **Distribution:** China (Wuhan, Taiwan, Fujian) (Chang 1987; Chen 1979c; Han 1997a, b; Zhang et al. 1999; Tang et al. 2002; Reitz et al. 2011); Japan, Bangladesh, Philippines, India, Sri Lanka, Australia.

***Microcephalothrips* Bagnall, 1926**

182. *Microcephalothrips abdominalis* (Crawford, 1910). **Distribution:** China (Wuhan, Jiangsu, Zhejiang, Fujian, Taiwan, Jiangxi, Hunan, Hubei, Guangdong, Hainan, Guangxi, Sichuan) (Zhang 1982b; Han 1993b, 1997a; Feng et al. 1998, 2002; Tang et al. 2002; Zhang et al. 1999, 2004b; Reitz et al. 2011); Korea, India, Iran, Sri Lanka, Philippines, Indonesia, Egypt, Guam, Australia, New Zealand, USA, Canada, Cuba, Argentina, Mexico.

***Mycterotherips* Trybom, 1910**

183. *Mycterotherips araliae* (Takahashi, 1936). **Distribution:** China (Taiwan) (Wang 1999).

184. *Mycterotherips auratus* Wang, 1999. **Distribution:**

China (Taiwan) (Wang 1999).

185. *Mycterothrips caudibrunneus* Wang, 1999. Distribution: China (Taiwan) (Wang 1999).

186. *Mycterothrips consociatus* (Targioni-Tozzetti, 1887). Distribution: China (Jiangsu, Fujian, Guangdong, Hainan, Sichuan, Zhejiang) (Han and Cui 1992; Zhang and Tong 1996; Han 1997a; Zhang et al. 1999); Iran, Japan, U.S.S.R., Europe.

187. *Mycterothrips glycines* (Okamoto, 1911). Distribution: China (Beijing, Jiangsu, Zhejiang, Fujian, Sichuan, Guangdong, Taiwan, Taiwan) (Chen 1980; Zhang 1982b; Han and Cui 1992; Wang 1999; Han 1997a; Tang et al. 2002); Japan, Korea.

188. *Mycterothrips nilgiriensis* (Ananthakrishnan, 1960). Distribution: China (Taiwan) (Wang 1999); India, Nepal, Australia.

189. *Mycterothrips ricini* (Shumsher, 1945). Distribution: China (Hainan) (Han 1997a); India, Japan.

190. *Mycterothrips setiventris* (Bagnall, 1918). Distribution: China (Hainan) (Han 1997a); India.

***Octothrips* Moulton, 1940**

191. *Octothrips bhattii* (Wilson, 1972). Distribution: China (Taiwan) (Wang 2008); India, Malaysia.

***Odontothrips* Amyot and Serville, 1843**

192. *Odontothrips biuncus* John, 1921. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993; Dang et al. 2010); Japan, Canada, Europe.

193. *Odontothrips confusus* Priesner, 1926. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993; Dang et al. 2010); Iran, Hungary, Germany, Czech.

194. *Odontothrips intermedius* (Uzel, 1895). Distribution: China (Beijing, Shaanxi) (Dang et al. 2010); Czech, Austria, Hungary, Russia, Sweden, Finland, Scotland, Romania, Ukraine.

195. *Odontothrips loti* (Haliday, 1852). Distribution: China (Shaanxi, Inner Mongolia, Hebei, Henan, Gansu, Ningxia) (Yang et al. 1993; Zhang and Tong 1996; Han 1997a; Dang et al. 2010); Russia, North America, Europe, Japan.

196. *Odontothrips meliloti* Priesner, 1951. Distribution: China (Shaanxi); Iran, Southern England, France, Germany, Hungary, Czech.

197. *Odontothrips mongolicus* Pelikán, 1985. Distribution: China (Ningxia, Inner Mongolia) (Dang et al. 2010); Mongolia.

198. *Odontothrips pentatrachopus* Han and Cui, 1992. Distribution: China (Sichuan) (Han and Cui 1992; Han 1997a; Dang et al. 2010).

199. *Odontothrips phaseoli* Kurosawa, 1941. Distribution: China (Heilongjiang) (Dang et al. 2010); Japan.

200. *Odontothrips qinlingensis* Feng and Zhao, 1994. Distribution: China (Shaanxi) (Feng and Zhao 1994; Dang et al. 2010).

201. *Odontothrips yinggensis* Feng and Zhang, 2000. Distribution: China (Shaanxi) (Feng and Zhang 2000; Dang et al. 2010).

202. *Odontothrips yunnanensis* Xie, Zhang and Mound, 2010. Distribution: China (Yunnan) (Xie et al. 2010).

***Oxythrips* Uzel, 1895**

203. *Oxythrips ulmifoliorum* Haliday, 1836. Distribution: China (Inner Mongolia) (Zhang and Tong 1996); Europe, Iran.

***Parabaliotrips* Priesner, 1935**

204. *Parabaliotrips coluckus* (Kudô, 1977). Distribution: China (Guangdong, Fujian) (Zhang and Tong 1996; Zhang et al. 1999); Nepal, Malaysia.

205. *Parabaliotrips grandiceps* Priesner, 1935. Distribution: China (Taiwan) (Priesner 1935; Zhang and Tong 1993c).

206. *Parabaliotrips takahashii* Priesner, 1935. Distribution: China (Taiwan) (Chen 1976; Zhang and Tong 1993c).

***Pezothrips* Karny, 1907**

207. *Pezothrips frontalis* (Uzel, 1895). Distribution: China (Tibet) (Zhang 1987; Zhang and Tong 1993c); Austria, Czech.

***Plesiothrips* Hood, 1915**

208. *Plesiothrips perplexus* (Beach, 1896). Distribution: China (Taiwan) (Chen 1979c); Eastern USA, California, Texas, and Mexico, from various tropical and subtropical parts of the world, Eastern Australia.

209. *Plesiothrips sakagamii* Kudô, 1974. Distribution: China (Taiwan) (Kudô 1974; Mound and Marullo 1996).

***Projectothrips* Moulton, 1929**

210. *Projectothrips imitans* (Priesner, 1935). Distribution: China (Taiwan) (Bhatti 1973; Zhang and Tong 1993c).

211. *Projectothrips longicornis* (Zhang, 1981). Distribution: China (Hainan) (Zhang 1981, 1982b).

***Pseudanaphothrips* Karny, 1921**

212. *Pseudanaphothrips querci* (Moulton, 1928). Distribution: China (Taiwan) (Moulton 1928; Zhang and Tong 1993c).

***Psilothrips* Hood, 1927**

213. *Psilothrips indicus* Bhatti, 1967. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993; Han 1997a; Reitz et al. 2011); India.

***Rhamphothrips* Karny, 1913**

214. *Rhamphothrips parviceps* (Hood, 1919). Distribution: China (Hainan, Yunnan) (Han 1997a); India.

215. *Rhamphothrips quintus* Wang, 1993. Distribution: China (Taiwan) (Wang 1993a).

***Salpingothrips* Hood, 1935**

216. *Salpingothrips aimotofus* Kudô, 1972. Distribution: China (Hainan, Guangdong) (Chen 1980; Zhang 1982b); Japan.

***Sciothrips* Bhatti, 1970**

217. *Sciothrips cardamomi* (Ramakrishna, 1935). Distribution: China (Hainan, Guangdong, Taiwan) (Zhang 1982b; Zhang and Tong 1993c); Costa Rica.

Scirtothrips Shull, 1909

218. *Scirtothrips acus* Wang, 1994. Distribution: China (Taiwan) (Wang 1994b).

219. *Scirtothrips asinus* Wang, 1994. Distribution: China (Taiwan) (Wang 1994b).

220. *Scirtothrips dobroskyi* Moulton, 1936. Distribution: China (Yunnan) (Han and Cui 1992; Han 1997a); Australia, Philippines.

221. *Scirtothrips dorsalis* Hood, 1919. Distribution: China (Jiangsu, Zhejiang, Anhui, Fujian, Henan, Guangdong, Hainan, Guangxi, Yunnan, Taiwan) (Chen 1979c; Zhang 1982b; Han and Cui 1992; Han 1997a,b; Wang 1994b; Zhang et al. 1999; Huang et al. 2010; Reitz et al. 2011); Bangladesh, Japan, Pakistan, India, Malaysia, Indonesia, South Africa.

222. *Scirtothrips hainanensis* Han, 1986. Distribution: China (Hainan) (Han 1986b, 1997a).

223. *Scirtothrips hengduanicus* Han, 1990. Distribution: China (Hunan, Sichuan, Tibet) (Han 1990a, 1993b, 1997a; Han and Cui 1992).

224. *Scirtothrips pendulae* Han, 1986. Distribution: China (Beijing) (Han 1986b, 1997a).

Scolothrips Hinds, 1902

225. *Scolothrips asura* Ramakrishna and Margabandhu, 1931. Distribution: China (Hainan, Guangdong, Sichuan, Yunnan, Fujian) (Zhang 1980a, 1982b; Han and Zhang 1982b; Han 1997a; Zhang et al. 1999); India.

226. *Scolothrips dilongicornis* Han and Zhang, 1982. Distribution: China (Beijing, Hebei) (Han and Zhang 1982b; Han 1997a).

227. *Scolothrips longicornis* Priesner, 1926. Distribution: China (Fujian, Xinjiang) (Han et al. 1979; Han 1997a); Western Palearctic, Andorra, Poland, Czech, Iran, Slovakia, Hungary, Romania, Austria, France, Spain, England, Finland, Egypt.

228. *Scolothrips rhagebianus* (Priesner, 1950). Distribution: China (Taiwan) (Wang 2002); India, Sudan.

229. *Scolothrips takahashii* Priesner, 1950. Distribution: China (Wuhan, Beijing, Hebei, Jiangsu, Zhejiang, Fujian, Shandong, Henan, Hubei, Hunan, Guangdong, Hainan, Guangxi, Sichuan, Yunnan, Inner Mongolia, Taiwan) (Meng 1961; Zhang 1980a, 1982b; Yang et al. 1993; Han 1993a,b, 1997a; Zhang et al. 1999; Tang et al. 2002;), Japan.

Sorghothrips Priesner, 1936

230. *Sorghothrips meishanensis* Chen, 1977. Distribution: China (Taiwan) (Chen 1977b; Chang 1987).

Stenchaetothrips Bagnall, 1926

231. *Stenchaetothrips albicornus* Zhang and Tong, 1990. Distribution: China (Hainan, Guangxi, Fujian) (Zhang and Tong 1990c; Han 1993a; Zhang et al. 1999).

232. *Stenchaetothrips apheles* Wang, 2000. Distribution: China (Taiwan) (Wang 2000).

233. *Stenchaetothrips bambusae* (Shumsher, 1946). Distribution: China (Guangdong, Guangxi, Hainan, Sichuan, Yunnan, Fujian) (Zhang 1982b; Zhang and Tong 1990c; Han 1997a; Zhang et al. 1999); India, Burma, Japan.

234. *Stenchaetothrips basibrunneus* Wang, 2000. Distribution: China (Taiwan) (Wang 2000).

235. *Stenchaetothrips biformis* (Bagnall, 1913).

Distribution: China (Widespread in China) (Zhang 1982b; Zhang and Tong 1990c; He et al. 1992; Han 1993a, 1997a,b; Zhang et al. 1999; Wang 2000; Tang et al. 2002; Reitz et al. 2011); Asian countries, Europe, South America.

236. *Stenchaetothrips brochus* Wang, 2000. Distribution: China (Taiwan) (Wang 2000).

237. *Stenchaetothrips caulis* Bhatti, 1982. Distribution: China (Taiwan) (Wang 2000); India.

238. *Stenchaetothrips cymbopogoni* Zhang and Tong, 1990. Distribution: China (Hainan) (Zhang and Tong 1990c; Han 1997a).

239. *Stenchaetothrips divisae* Bhatti, 1982. Distribution: China (Guangdong) (Han 1997a); India.

240. *Stenchaetothrips faurei* (Bhatti, 1962). Distribution: China (Guangdong, Hainan, Fujian) (Zhang 1982b; Zhang and Tong 1990c); India.

241. *Stenchaetothrips fusca* (Moulton, 1936). Distribution: China (Hainan, Guangdong) (Zhang 1982b); Philippines.

242. *Stenchaetothrips indicus* (Ramakrishna and Margabandhu, 1931). Distribution: China (Hainan) (Zhang and Tong 1990c, 1993c); India.

243. *Stenchaetothrips karnyanus* (Priesner, 1934). Distribution: China (Guangxi, Taiwan) (Zhang and Tong 1993c; Wang 2000); Indonesia.

244. *Stenchaetothrips minutus* (Deventer, 1906). Distribution: China (Taiwan, Guangdong, Guangxi, Henan) (Chen 1978; Zhang and Tong 1990c; Wang 2000); India, Indonesia, Japan, Hawaii, Brazil.

245. *Stenchaetothrips tenebricus* (Ananthakrishnan and Jagadish, 1968). Distribution: China (Zhejiang, Fujian, Hainan, Guangxi) (Zhang and Tong 1990c; Zhang et al. 1999); India.

246. *Stenchaetothrips undatus* Wang, 2000. Distribution: China (Taiwan) (Wang 2000).

247. *Stenchaetothrips victoriensis* (Moulton, 1936). Distribution: China (Guangdong, Hainan) (Zhang and Tong 1993c; Huang et al. 2010); Philippines.

248. *Stenchaetothrips zhangii* Duan, Li, Yang, and Yan, 1998. Distribution: China (Henan) (Duan et al. 1998a).

Taeniothrips Amyot and Serville, 1843

249. *Taeniothrips angustiglandus* Han and Cui, 1992. Distribution: China (Yunnan) (Han and Cui 1992; Han 1997a).

250. *Taeniothrips cognaticus* Priesner, 1935. Distribution: China (Taiwan) (Priesner 1935; Zhang and Tong 1993c).

251. *Taeniothrips euchariei* (Whetzel, 1923). Distribution: China (Zhejiang, Taiwan, Guangdong, Hong Kong, Fujian) (Han 1993a, 1997a,b; Zhang et al. 1999); Japan, Hawaii, Bermuda.

252. *Taeniothrips glanduculus* Han, 1990. Distribution: China (Tibet) (Han 1990b).

253. *Taeniothrips major* Bagnall, 1916. Distribution: China (Tibet, Inner Mongolia, Xingjiang, Shaanxi, Gansu, Qinghai, Guizhou) (Han and Zhang 1981; Han 1988, 1997a; Han and Cui 1992); Korea, India, Nepal.

254. *Taeniothrips microglandus* Han, 1990. Distribution: China (Tibet) (Han 1997a).

255. *Taeniothrips oreophilus* Priesner, 1935. Distribution: China (Hainan, Guangdong) (Zhang 1982b).

256. *Taeniothrips pediculae* Han, 1988. Distribution: China (Tibet, Sichuan) (Han 1988; Han 1988, 1997a; Han and Cui 1992).

257. *Taeniothrips picipes* (Zetterstedt, 1828). Distribution: China (Henan, Shaanxi) (Han 1988; Feng 1992); Palaearctic (excluding North Africa).

***Thrips* Linnaeus, 1758**

258. *Thrips addendus* (Priesner, 1933). Distribution: China (Taiwan) (Chen 1979c; Chang 1987); Mexico.

259. *Thrips alatus* Bhatti, 1980. Distribution: China (Gansu, Sichuan) (Han 1997b; Zhang et al. 2011); India, Nepal.

260. *Thrips alius* Palmer, 1992. Distribution: China (Yunnan) (Palmer 1992; Zhang and Tong 1996); Philippines.

261. *Thrips alliorum* (Priesner, 1935). Distribution: China (Wuhan, Hebei, Liaoning, Zhejiang, Fujian, Taiwan, Shandong, Guangdong, Hainan, Guangxi, Guizhou, Shaanxi, Ningxia, Xinjiang, Jingzhou) (Zhang 1982b; He et al. 1992; Yang et al. 1993; Han 1997a,b; Tang et al. 2002; Zhang et al. 1999, 2004b, 2011); Korea, Japan, Hawaii.

262. *Thrips andrewsi* (Bagnall, 1921). Distribution: China (Zhejiang, Hunan, Guangdong, Hainan, Sichuan, Yunnan, Jingzhou, Fujian) (Zhang 1982b; Han and Cui 1992; Han 1997a; Zhang et al. 1999; Zhang et al. 2004b, 2011); India, Japan.

263. *Thrips atratus* Haliday, 1836. Distribution: China (Xinjiang) (Han 1997a; Reitz et al. 2011; Zhang et al. 2011); Iran, Korea, Mongolia, Turkey, Cyprus, Ukraine, Europe, USA, Canada.

264. *Thrips australis* (Bagnall, 1915). Distribution: China (Guangdong) (Zhang et al. 2011); Australia.

265. *Thrips brevicornis* Priesner, 1920. Distribution: China (Sichuan, Yunnan, Jingzhou) (Han and Cui 1992; Han 1997a; Zhang et al. 2004b); Mongolia, U.S.S.R., Romania, Hungary, Austria, Germany, England, Finland.

266. *Thrips brunneus* Ananthakrishnan and Jagadish, 1968. Distribution: China (Shaanxi) (Feng 1992); India.

267. *Thrips carthami* Shumsher, 1946. Distribution: China (Sichuan) (Han 1997b; Zhang et al. 2011); India, Kashmir, Pakistan, Bhutan.

268. *Thrips coloratus* Schmutz, 1913. Distribution: China (Zhejiang, Taiwan, Jiangxi, Henan, Hubei, Hunan, Guangdong, Hainan, Guangxi, Sichuan, Tibet, Yunnan, Wuhan, Jingzhou, Fujian) (Chen 1979c; Zhang 1982b; Han and Cui 1992; He et al. 1992; Han 1993a, b, 1997a, b; Zhang et al. 1999; Tang et al. 2002; Zhang et al. 2004b, 2011); Korea, Japan, Nepal, India, Pakistan, Sri Lanka, Indonesia, New Guinea, Australia.

269. *Thrips extensicornis* Priesner, 1934. Distribution: China (Gansu, Taiwan) (Mound and Masumoto 2005; Zhang et al. 2011); Java, Philippines, Riau Islands, Australia.

270. *Thrips flavidulus* (Bagnall, 1923). Distribution: China (Wuhan, Hebei, Liaoning, Jiangsu, Zhejiang, Fujian, Taiwan, Jiangxi, Shandong, Henan, Hubei, Hunan, Guangdong, Hainan, Guangxi, Sichuan, Guizhou, Yunnan, Tibet, Shaanxi, Ningxia) (Zhang 1982b; Han 1988, 1993a,b, 1997a, b; Han and Cui 1992; He et al. 1992; Yang et al. 1993; Zhang et al. 1999; Tang et al. 2002; Reitz et al. 2011); Korea, Japan, Nepal, India, Sri Lanka.

271. *Thrips flavus* Schrank, 1776. Distribution: China

(Wuhan, Jingzhou, Gansu, Hebei, Jiangsu, Zhejiang, Fujian, Taiwan, Henan, Hubei, Hunan, Guangdong, Hainan, Guangxi, Guizhou, Yunnan) (Chen 1979c, 1980; Zhang 1982b; Han 1993a, b, 1996, 1997a; Yang et al. 1993; Zhang et al. 1999; Tang et al. 2002; Zhang et al. 1999, 2004b, 2011; Reitz et al. 2011); Korea, Japan, Iran, Europe, North America.

272. *Thrips floreus* Kurosawa, 1968. Distribution: China (Hainan, Guangdong, Fujian) (Zhang 1982b; Zhang et al. 1999); Japan.

273. *Thrips florum* Schmutz, 1913. Distribution: China (Gansu) (Zhang et al. 2011); India, Ceylon, Burma, Thailand, Malaya, Singapore, Brunei, New Guinea, Java, Tahiti, Fiji, Philippines, Hawaii, Australia.

274. *Thrips formosanus* Priesner, 1934. Distribution: China (Taiwan, Hainan, Fujian) (Zhang 1982b; Han 1997a; Han and Cui 1992; Zhang et al. 1999; Zhang et al. 2011); Nepal, India.

275. *Thrips fuscipennis* Haliday, 1836. Distribution: China (Beijing, Taiwan) (Han 1997a; Zhang et al. 2011); Iran, Turkey, Russia, Europe, USA, Canada.

276. *Thrips garuda* Bhatti, 1980. Distribution: China (central and south of China) (Zhang et al. 2011); India.

277. *Thrips hawaiiensis* (Morgan, 1913). Distribution: China (Zhejiang, Taiwan, Hunan, Guangdong, Hainan, Guangxi, Sichuan, Yunnan, Tibet, Fujian, Jingzhou) (Chen 1979b, c; Zhang 1982b; Han and Cui 1992; Han 1988, 1993a, b, 1997a, b; He et al. 1992; Zhang et al. 1999; Huang et al. 2010; Zhang et al. 2004b, 2011; Reitz et al. 2011); Widespread from Iran to the Pacific, including Tahiti, Hawaii, and eastern Australia, also Jamaica, Mexico, and southern States of the USA.

278. *Thrips himalayanus* (Pelikan, 1970). Distribution: China (Tibet) (Han 1988, 1997a; Han and Cui 1992; Zhang et al. 2011); Nepal, India.

279. *Thrips inferus* Chen, 1979. Distribution: China (Taiwan) (Chen 1979c).

280. *Thrips juniperinus* Linnaeus, 1758. Distribution: China (Xinjiang) (Han 1996).

281. *Thrips kotoshoi* (Moulton, 1928). Distribution: China (Gansu, Taiwan) (Palmer 1992); Fiji.

282. *Thrips major* Uzel, 1895. Distribution: China (Inner Mongolia, Ningxia, Gansu, Ningxia) (Yang et al. 1993; Han 1997a; Zhang et al. 2011); Iran, Mongolia, Turkey, Europe, Morocco.

283. *Thrips malloti* Priesner, 1934. Distribution: China (Taiwan) (Palmer 1992; Zhang et al. 2011); Sumatra, Java, Malaya, New Guinea, Queensland, Bali, Celebes, Solomon Island, Philippines, Okinawa, Carolina, Palau, India.

284. *Thrips nigropilosus* Uzel, 1895. Distribution: China (Heilongjiang, Jiangsu, Guangdong, Sichuan, Fujian) (Han 1993a, 1997a; Zhang et al. 1999; Zhang et al. 2011); Europe, Japan, Iran, Turkey, USSR, Jacot-Guillarmod, Egypt, Ethiopia, Kenya, Tanzania, Australia, Fiji, Hawaii, New Zealand, Canada, USA.

285. *Thrips obscuripes* Priesner, 1934. Distribution: China (southwest and central of China) (Zhang et al. 2011); Java.

286. *Thrips orientalis* (Bagnall, 1915). Distribution: China (Fujian, Taiwan, Guangdong, Hainan, Guangxi) (Zhang 1982b; Han 1997a; Zhang et al. 1999, 2011); India, Thailand, Japan, Philippines, Malaya, Java, Borneo, Tahiti,

Hawaii.

287. *Thrips pallidulus* Bagnall, 1924. Distribution: China (Shaanxi) (Feng 1992); India.

288. *Thrips palmi* Karny, 1925. Distribution: China (Zhejiang, Taiwan, Hunan, Guangdong, Hainan, Guangxi, Sichua, Yunnan, Tibet, Hong Kong, Wuhan, Jingzhou, Beijing) (Chen 1979c; Zhang 1982b; Han 1988, 1993a, b, 1997a, b; Han and Cui 1992; Tang et al. 2002; Zhang et al. 1999, 2004b, 2011; Reitz et al. 2011); widespread around the world.

289. *Thrips parvispinus* (Karny, 1922). Distribution: China (Yunnan, Taiwan) (Mound and Masumoto 2005; Zhang et al. 2011); Thailand, Malaya, Singapore, Java, Sumatra, Philippines, New Guinea, Australia.

290. *Thrips pillichi* Priesner, 1924. Distribution: China (Sichuan, Tibet, Shaanxi) (Han 1988, 1997a; Han and Cui 1992; Zhang et al. 2011); Iran, Turkey, Europe.

291. *Thrips physapus* Linnaeus, 1758. Distribution: China (Hainan) (Huang et al. 2010); Europe, Morocco, Siberia, Mongolia.

292. *Thrips simplex* (Morison, 1930). Distribution: China (Beijing, Inner Mongolia, Liaoning, Hong Kong) (Yang et al. 1993; Han 1997a; Reitz et al. 2011; Zhang et al. 2011); Worldwide distributed.

293. *Thrips subnudula* (Karny, 1927). Distribution: China (southwest of China) (Zhang et al. 2011); Widespread in India, also recorded from Australia and Nigeria.

294. *Thrips tabaci* Lindeman, 1889. Distribution: China (Widespread in China) (Meng 1961; Chen 1979c; Han and Zhang 1981; Zhang 1982b; Yang et al. 1993; Han and Cui 1992; He et al. 1992; Han, 1996, 1997a, b; Tang et al. 2002; Zhang et al. 1999, 2004b, 2011; Reitz et al. 2011); widespread around the world.

295. *Thrips trehernei* Priesner, 1927. Distribution: China (Qinghai, Inner Mongolia) (Han 1997a; Zhang et al. 2011); Iran, Europe, Russia, Turkey, USA, Canada.

296. *Thrips vitticornis* (Karny, 1922). Distribution: China (Taiwan, Fujian) (Zhang 1982b; Palmer 1992; Han 1997a; Zhang et al. 1999; Zhang et al. 2011); Fiji, Solomon Islands, Thailand, Vietnam, Malaya, Java, Sumatra, Philippines, Guam, Hawaii, India, Australia.

297. *Thrips vulgatissimus* Haliday, 1836. Distribution: China (Wuhan, Fujian, Jingzhou, Sichuan, Tibet, Xinjiang, Gansu, Qinghai, Ningxia) (Han and Zhang 1981; Han 1988, 1996, 1997a; Han and Cui 1992; Yang et al. 1993; Zhang et al. 1999; Tang et al. 2002; Zhang et al. 2004b, 2011; Reitz et al. 2011); New Zealand, Iran, Europe, North America.

298. *Thrips wedeliae* Priesner, 1934. Distribution: China (Taiwan) (Zhang et al. 2011); Solomon Islands, Philippines, Guam.

299. *Thrips xenos* Bhatti, 1980. Distribution: China (Shaanxi) (Feng 1992); India.

***Trichromothrips* Priesner, 1930**

300. *Trichromothrips formosus* Masumoto and Okajima, 2005. Distribution: China (Taiwan) (Masumoto and Okajima 2005); Japan.

301. *Trichromothrips fragilis* Masumoto and Okajima, 2005. Distribution: China (Taiwan) (Masumoto and Okajima 2005); Japan.

302. *Trichromothrips priesneri* (Bhatti, 1967). Distribution: China (Taiwan) (Wang 2008); India.

303. *Trichromothrips taiwanus* Masumoto and Okajima, 2005. Distribution: China (Taiwan) (Wang 2008).

304. *Trichromothrips trachelospermi* Zhang and Tong, 1996. Distribution: China (Zhejiang) (Zhang and Tong 1996).

305. *Trichromothrips xanthius* (Williams, 1917). Distribution: China (Guangdong, Guangxi, Hainan, Yunnan, Taiwan) (Zhang 1982b; Han 1997a); Japan, USA, Australia.

***Tusothrips* Bhatti, 1967**

306. *Tusothrips aureus* (Moulton, 1936). Distribution: China (Yunnan, Guangdong, Hainan) (Zhang 1982b; Han and Cui 1992; Han 1997a); Philippines.

307. *Tusothrips calopgomi* (Zhang, 1981). Distribution: China (Guangdong, Hainan, Hunan) (Zhang 1981, 1982b; Han 1997a).

308. *Tusothrips sumatrensis* (Karny, 1925). Distribution: China (Hainan) (Zhang 1982b; Zhang and Tong 1993c); India, Sumatra, Philippines, Indonesia.

***Vulгатоthrips* Han, 1997**

309. *Vulгатоthrips shennongjiaensis* Han, 1997. Distribution: China (Hubei) (Han 1997b).

***Yaobinthrips* Zhang, Mound, and Xie, 2010**

310. *Yaobinthrips yangtzei* Zhang, Mound and Xie, 2010. Distribution: China (Sichuan) (Zhang et al. 2010).

***Yaothrips* Mirab-balou, Wei, Lu, and Chen, 2011**

311. *Yaothrips shii* Mirab-balou, Wei, Lu and Chen, 2011. Distribution: China (Tibet) (Mirab-balou et al. 2011b).

***Yoshinothrips* Kudô, 1985**

312. *Yoshinothrips pasekamui* Kudô, 1985. Distribution: China (Jiangsu) (Zhang and Tong 1996); Japan.

313. *Yoshinothrips ponkamui* Kudô, 1985. Distribution: China (Jiangsu, Fujian) (Zhang and Tong 1996); Japan.

II. SUBORDER TUBULIFERA HALIDAY

The suborder Tubulifera consists of about 3500 species in 450 genera placed in the single family Phlaeothripidae (Mound 2011), of which 253 species in 76 genera has been recorded in China. At least half of the species are fungus-feeders, mostly on hyphae but with one major group, the Idolothripinae, feeding on spores. More than one-third of the species are phytophagous, including the *Haplothrips* lineage in flowers, and the much larger *Liothrips* lineage on leaves. Some leaf-feeding species induce galls on their host plants (Mound 1994). Still a few species are predatory on scale insects and mites (Palmer and Mound 1991, Reyes 1994) and the members of one small lineage feed on mosses (Mound 1989). However, only a few species of the Phlaeothripidae are considered as crop pests. Pest Phlaeothripidae are primarily members of *Haplothrips* and reported on various crops in different parts of the world (Mound and Marullo 1996). Two subfamilies, Idolothripinae and Phlaeothripinae, are usually recognized within the Phlaeothripidae. When attempting to distinguish these two subfamilies, care must be taken not to confuse the maxillary stylets with the maxillary guides, where the guides are sometimes broader and more obvious than the stylets (Mound and Marullo 1996).

II.1. Subfamily Idolothripinae Bagnall

This subfamily all feed fungi by ingesting whole spores and the adults are usually large and black. Idolothripines are particularly common on dead hanging leaves or on recently dead branches and twigs, but some live in leaf litter or at the bases of grasses and sedges (Mound and Marullo 1996). About 700 species and 80 genera are currently included in this subfamily (Mound 2011). Of these, 59 species in 18 genera are here listed from China.

Rhaebothrips Karny, which was reported earlier in China as separate genus, has been transferred to *Nesothrips* Kirkaldy (Mound and Palmer 1983) with *Rhaebothrips lativentris* Karny synonymized with *Nesothrips lativentris* (Karny) (Mound 1974).

Acallurothrips Bagnall, 1921

314. *Acallurothrips casuarinae* Okajima, 1993. Distribution: China (Taiwan) (Okajima 1993); Japan.

315. *Acallurothrips hagai* Okajima, 1993. Distribution: China (Taiwan) (Okajima 1993); Japan.

316. *Acallurothrips hanatanii* Okajima, 1993. Distribution: China (Taiwan) (Okajima 1993); Japan.

317. *Acallurothrips nonakai* Okajima, 1993. Distribution: China (Taiwan) (Okajima 1993); Japan.

318. *Acallurothrips tubullatus* Wang and Tong, 2008. Distribution: China (Guangdong) (Wang and Tong 2008).

Allothrips Hood, 1908

319. *Allothrips bicolor* Ananthakrishnan, 1964. Distribution: China (Hainan, Guangdong) (Zhang 1984a); India.

320. *Allothrips discolor* Chen, 1982. Distribution: China (Taiwan) (Chen 1982).

321. *Allothrips nubillicauda* (Watson, 1935). Distribution: China (Taiwan) (Chen 1982); USA.

322. *Allothrips pillichellus* (Priesner, 1925). Distribution: China (Hainan) (Han 1997a); India.

323. *Allothrips taiwanus* Okajima, 1987. Distribution: China (Taiwan) (Okajima 1987).

Bactrothrips Karny, 1912

324. *Bactrothrips brevitubus* Takahashi, 1935. Distribution: China (Anhui, Fujian, Guangdong, Hainan, Yunnan) (Zhang 1984a; Han and Zhang 1981; Han 1997a, b; Zhang et al. 1999); Japan.

325. *Bactrothrips flectoventris* Haga and Okajima, 1989. Distribution: China (Taiwan) (Haga and Okajima 1989); Japan.

326. *Bactrothrips honoris* (Bagnall, 1921). Distribution: China (Taiwan) (Chen 1982; Okajima 2006); Japan.

Compsothrips Reuter, 1901

327. *Compsothrips reticulatus* Guo and Feng, 2006. Distribution: China (Hebei) (Guo and Feng 2006).

328. *Compsothrips sinensis* (Pelikán, 1961). Distribution: China (Hebei) (Gou and Feng 2006).

Cryptothrips Uzel, 1895

329. *Cryptothrips sauteri* Karny 1913. Distribution: China (Taiwan) (Takahashi 1936; Zhang and Tong 1993c).

Dinothrips Bagnall, 1908

330. *Dinothrips hainanensis* Zhang, 1982. Distribution: China (Hainan, Guangdong) (Zhang 1982a, 1984a).

331. *Dinothrips juglandis* Moulton, 1933. Distribution: China (Tibet, Guangdong) (Han 1988, 1997a); India, Myanmar.

332. *Dinothrips spinosus* (Schmutz, 1913). Distribution: China (Yunnan) (Han 1997a); Myanmar, India, Sri Lanka, Indonesia.

333. *Dinothrips sumatrensis* Bagnall, 1908. Distribution: China (Guangdong, Hainan, Fujian) (Zhang 1984a; Zhang et al. 1999); Malaysia, Sri Lanka, India.

Elaphrothrips Buffa, 1909

334. *Elaphrothrips athletes* (Karny, 1923). Distribution: China (Fujian) (Zhang et al. 1999); Indonesia.

335. *Elaphrothrips denticollis* (Bagnall, 1909). Distribution: China (Fujian, Taiwan, Guangdong, Hainan, Guangxi, Yunnan) (Zhang 1984a; Han 1997a; Zhang et al. 1999); Myanmar, India, Malaysia, Indonesia.

336. *Elaphrothrips greeni* (Bagnall, 1914). Distribution: China (Fujian, Yunnan, Tibet) (Han 1988, 1997a; Zhang et al. 1999); India, Sri Lanka, Indonesia.

337. *Elaphrothrips jacobsoni* Priesner, 1935. Distribution: China (Guizhou) (Tong and Zhang 1989; Zhang and Tong 1993c); Indonesia, Sumatra, Malaysia.

338. *Elaphrothrips spiniceps* (Bagnall, 1932). Distribution: China (Taiwan, Guangdong, Hainan, Fujian) (Chen 1982; Zhang 1982a, 1984a; Zhang et al. 1999); Japan, Myanmar, India, Indonesia.

Ethirothrips Karny, 1925

339. *Ethirothrips brevis* (Bagnall, 1921). Distribution: China (Taiwan) (Chen 1982); Trinidad, Hawaii, India.

340. *Ethirothrips chui* (Chen, 1982). Distribution: China (Taiwan) (Chen 1982).

341. *Ethirothrips indicus* (Bagnall, 1921). Distribution: China (Taiwan) (Wang 2002); India.

342. *Ethirothrips longisetis* (Ananthakrishnan and Jagadish, 1970). Distribution: China (Guangdong, Hainan) (Zhang 1984a); India.

343. *Ethirothrips obscurus* (Schmutz, 1913). Distribution: China (Taiwan) (Chen 1982); India, Cuba, Sri Lanka.

344. *Ethirothrips stenomelas* (Walker, 1859). Distribution: China (Guangdong, Hainan) (Zhang 1984a; Han 1997a); Seychelles Islands (Indian Ocean), Sri Lanka, Fiji (Oceania), Marquesas Islands (Oceania), Madagascar (Africa), Hawaii, New Britain (Atlantic).

345. *Ethirothrips virgulae* (Chen, 1980). Distribution: China (Taiwan) (Chen 1980).

346. *Ethirothrips vitreipennis* (Priesner, 1939). Distribution: China (Guangdong, Hainan, Fujian) (Zhang 1984a; Zhang et al. 1999); India.

Gastrothrips Hood, 1912

347. *Gastrothrips euryptela* Cao, Guo and Feng, 2009. Distribution: China (Hebei, Shanxi, Shaanxi) (Cao et al. 2009).

348. *Gastrothrips fulviceps* Hood, 1973. Distribution:

China (Taiwan) (Kudô 1974); Peru.

349. *Gastrothrips fuscatus* Okajima, 1979. Distribution: China (Taiwan, Guangdong) (Okajima 1979a, 2006; Cao et al. 2009).

350. *Gastrothrips mongolicus* (Pelikán, 1965). Distribution: China (Fujian, Sichuan, Zhejiang, Inner Mongolia, Ningxia) (Cao et al. 2009); Mongolia.

***Holurothrips* Bagnall, 1914**

351. *Holurothrips morikawai* Kurosawa, 1968. Distribution: China (Guangdong, Hainan, Fujian) (Zhang 1984a; Zhang et al. 1999); Japan.

***Machatothrips* Bagnall, 1908**

352. *Machatothrips antennatus* (Bagnall, 1915). Distribution: China (Guangdong, Hainan) (Zhang 1984a); Malaysia.

353. *Machatothrips artocarpus* Moulton, 1928. Distribution: China (Taiwan, Guangdong, Hainan) (Chen 1982; Zhang 1982a, 1984a; Han 1997a); Philippines, New Zealand.

354. *Machatothrips celosia* Moulton, 1928. Distribution: China (Hainan, Taiwan) (Chen 1982; Han 1997a).

***Mecynothrips* Bagnall, 1908**

355. *Mecynothrips kanoi* (Takahashi, 1937). Distribution: China (Taiwan) (Takahashi 1937).

356. *Mecynothrips pugilator* (Karny, 1913). Distribution: China (Taiwan) (Chen 1982; Okajima 2006); Japan.

357. *Mecynothrips taiwanus* Okajima, 1979. Distribution: China (Taiwan) (Chen 1982; Okajima 1979b).

***Megathrips* Targioni-Tozzetti, 1881**

358. *Megathrips antennatus* Guo, Feng and Duan, 2005. Distribution: China (Henan) (Guo et al. 2005).

359. *Megathrips lativentris* (Heeger, 1852). Distribution: China (Henan) (Guo et al. 2005); Europe, Siberia.

***Meiothrips* Priesner, 1929**

360. *Meiothrips baishanzuensis* Duan and Li, 1995. Distribution: China (Zhejiang) (Duan and Li 1995).

361. *Meiothrips menoni* Ananthakrishnan, 1964. Distribution: China (Guangdong, Hainan) (Zhang 1984a); Thailand, Malaya, India.

***Neosmerinthothrips* Schmutz, 1913**

362. *Neosmerinthothrips brevicollis* (Bagnall, 1921). Distribution: China (Mound 1974); Seychelles.

***Nesothrips* Kirkaldy, 1907**

363. *Nesothrips atropoda* Duan, Li, Yang and Yan, 1998. Distribution: China (Henan) (Duan et al. 1998a).

364. *Nesothrips brevicollis* (Bagnall, 1914). Distribution: China (Taiwan, Henan) (Chen 1982; Han 1997a); Japan, India, Mauritius (Indian Ocean), Philippines, Indonesia, Fiji, Hawaii.

365. *Nesothrips lativentris* (Karny, 1913). Distribution: China (Taiwan) (Kudô 1974; Chen 1980; Chen 1982; Han 1997a); Japan, Guam, Malaysia, Philippines, Indonesia, New Guinea, United States, Panama, Jamaica, Puerto Rico, Cuba, Dominican Republic, Mauritius, Solomon, Queensland.

366. *Nesothrips peltatus* Han and Cui, 1991. Distribution: China (Sichuan) (Han and Cui 1991, 1992; Han 1997a).

***Ophthalmothrips* Hood, 1919**

367. *Ophthalmothrips formosanus* (Karny, 1913). Distribution: China (Taiwan) (Chen 1982; Zhang and Tong 1993c; Cao et al. 2010).

368. *Ophthalmothrips longiceps* (Haga, 1975). Distribution: China (Fujian, Taiwan) (Chen 1982; Han 1997a; Cao et al. 2010); Japan.

369. *Ophthalmothrips miscanthicola* (Haga, 1975). Distribution: China (Fujian, Guangdong, Hainan, Sichuan, Jiangxi) (Zhang 1984a; Han and Cui 1992; Han 1997a; Zhang et al. 1999; Cao et al. 2010); Japan.

370. *Ophthalmothrips tenebronus* Han and Cui, 1991. Distribution: China (Sichuan) (Han and Cui 1991, 1992; Han 1997a; Cao et al. 2010).

371. *Ophthalmothrips yunnanensis* Cao, Guo and Feng, 2010. Distribution: China (Yunnan) (Cao et al. 2010).

***Phaulothrips* Hood, 1918**

372. *Phaulothrips solifer* Okajima, 1989. Distribution: China (Taiwan) (Okajima 2006); Japan.

II.2. Subfamily Phlaeothripinae Uzel

Classification of taxa is difficult at all levels in this subfamily. Several genera include large numbers of similar-looking species, such as *Liothrips* and *Haplothrips*, while some are more diverse and cannot be defined on any single character, such as *Adraneothrips*, *Hoplothrips*, and *Holopothrips* (Mound and Marullo 1996). Phlaeothripines exhibit a wide range of biologies: a few are predatory, some are flower-feeding, many are leaf-feeding, and almost half are associated with fungi in leaf litter, on dead wood, twigs and leaves (Reyes 1994). About 2800 species and 370 genera are presently included in this subfamily (Mound 2011). Of these, 194 species in 58 genera are here listed from China. Amongst them, two genera *Liothrips* and *Haplothrips* are the largest groups in China with 28 and 21 species, respectively. *Haplothrips* species have a diversity of biologies, with many described species apparently predatory and others phytophagous, particularly in the flowers of the families Asteraceae and Poaceae. *H. ganglbaueri* is apparently widely distributed in China; especially on plants of family Poaceae.

Bagnalliella yuccae (Figure 2) has also high population on Yucca flowers in some area in China, i.e. Hangzhou (Zhejiang province) and Beijing.

***Ablemothrips* Ananthakrishnan, 1969**

373. *Ablemothrips maxillatus* Ananthakrishnan, 1969. Distribution: China (Taiwan) (Okajima 2006); India.

***Acanthothrips* Uzel, 1895**

374. *Acanthothrips nodicornis* (Reuter, 1880). Distribution: China (Henan, Ningxia) (Yang et al. 1993; Han 1997a); Mongolia, Tajikistan, Turkey, Georgia, Russia, Europe, the United States.

***Agynaikothrips* Okajima, 2006**

375. *Agynaikothrips venapennisi* Moulton, 1928. Distribution: China (Taiwan) (Okajima 2006).

Aleurodothrips Franklin, 1909

376. *Aleurodothrips fasciapennis* (Franklin, 1908) Distribution: China (Fujian, Taiwan, Guangdong, Hainan, Guangxi, Sichun, Yunnan) (Zhang 1980a, 1984b; Zhang and Tong 1993b; Han 1997a; Zhang et al. 1999); Vietnam, Japan, India, Sri Lanka, Indonesia, Fiji (Pacific), Australia, Bermuda, the United States, Jamaica, Cuba, Nassau, Puerto Rico, Belgium.

Androthrips Karny, 1911

377. *Androthrips crus* Chen, 1979 Distribution: China (Taiwan) (Chen 1979).

378. *Androthrips guiyangensis* Sha, Feng and Duan, 2003. Distribution: China (Guizhou) (Sha et al. 2003b).

379. *Androthrips ramachandrai* Karny, 1926. Distribution: China (Fujian, Taiwan, Guangdong, Hainan, Guangxi, Yunnan) (Zhang 1984b, c; Han 1997a; Zhang et al. 1999); India.

Apelaunothrips Karny, 1925

380. *Apelaunothrips bicolor* Okajima, 1976. Distribution: China (Hainan, Yunnan) (Tong and Zhang 1989; Zhang and Tong 1990a, 1993b); Thailand.

381. *Apelaunothrips consimilis* (Ananthakrishnan, 1969) Distribution: China (Taiwan, Yunnan) (Tong and Zhang 1989; Zhang and Tong 1993b; Han 1997a); Japan, Malaysia, Indonesia, India.

382. *Apelaunothrips hainanensis* Zhang and Tong, 1990. Distribution: China (Hainan, Yunnan) (Zhang and Tong 1990a, 1993b).

383. *Apelaunothrips lienii* Okajima, 1979. Distribution: China (Taiwan, Yunnan) (Tong and Zhang 1989; Zhang and Tong 1993b).

384. *Apelaunothrips longidens* Zhang and Tong, 1990. Distribution: China (Guangdong) (Zhang and Tong 1990a).

385. *Apelaunothrips luridus* Okajima, 1979. Distribution: China (Guangdong, Hainan, Yunnan) (Tong and Zhang 1989; Zhang and Tong 1990a, 1993b); Malaysia.

386. *Apelaunothrips medioflavus* (Karny, 1927). Distribution: China (Fujian, Taiwan, Guangdong, Yunnan) (Tong and Zhang 1989; Zhang and Tong 1993b; Han 1997b; Zhang et al. 1999); Philippines, Indonesia.

387. *Apelaunothrips nigripennis* Okajima, 1979. Distribution: China (Guangdong, Hainan, Taiwan) (Zhang 1984b; Tong and Zhang 1989); Japan.

Apterygothrips Priesner, 1933

388. *Apterygothrips brunneicornis* Han, Cui, Hu and Cui, 1991. Distribution: China (Tibet, Sichuan) (Han et al. 1991b; Han and Cui 1992; Han 1997a).

389. *Apterygothrips fungosus* (Ananthakrishnan and Jagadish, 1969). Distribution: China (Guizhou, Shandong, Hainan, Guangdong) (Zhang 1984b, c); India.

390. *Apterygothrips haloxylis* Priesner, 1933. Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993; Han 1997a); Egypt.

Azaleothrips Ananthakrishnan, 1964

391. *Azaleothrips magnus* Chen, 1980. Distribution: China (Taiwan) (Chen 1980; Tong and Zhang 1989).

392. *Azaleothrips moundi* Okajima, 1976. Distribution: China (Taiwan) (Tong and Zhang 1989; Han 1997a); Japan.

393. *Azaleothrips siamensis* Okajima, 1978. Distribution: China (Guizhou) (Han 1993b, 1997a); Thailand.

Baenothrips Crawford, 1948

394. *Baenothrips asper* (Bournier, 1963). Distribution: China (Yunnan, Taiwan) (Tong and Zhang 1989; Zhang and Tong 1993b; Wang and Tong 2007); India, Angola.

395. *Baenothrips murphyi* (Stannard, 1970). Distribution: China (Fujian, Guangdong) (Han 1993a; Zhang et al. 1999; Wang and Tong 2007); Thailand, Malaysia.

396. *Baenothrips ryukyuensis* Okajima, 1994. Distribution: China (Taiwan) (Wang and Tong 2007); Japan.

Bagnalliella Karny, 1920

397. *Bagnalliella yuccae* (Hind, 1902). Distribution: China (Zhejiang, Shandong, Beijing, Shaanxi, Jiangsu, Taiwan) (Zhang and Tong 1993c); Japan, Korea, Iran, USA, Europe.

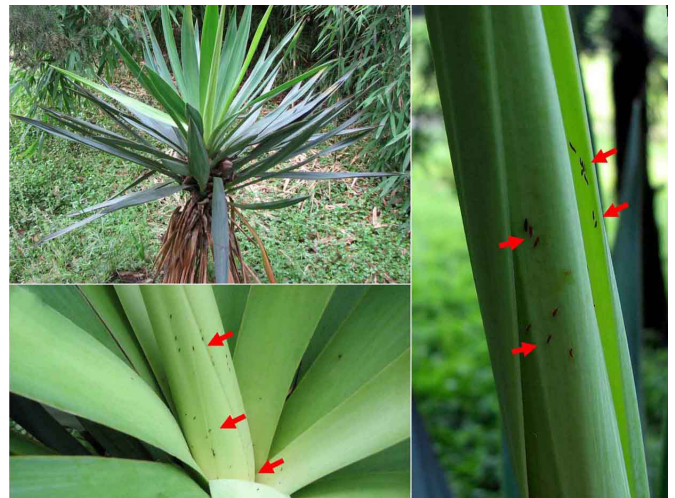


FIGURE 1. *Bagnalliella yuccae* infesting Yucca leaves (Huajiachi Campus at Zhejiang University, Hangzhou, China, 18.vi.2010). (Photo: Dr. GAO Ming-qing).

Bamboosiella Ananthakrishnan, 1957

398. *Bamboosiella brevibristla* Sha, Guo, Feng and Duan, 2003. Distribution: China (Zhejiang) (Sha et al. 2003a).

399. *Bamboosiella cingulata* (Hood, 1919). Distribution: China (Taiwan) (Okajima 2006); USA, Australia, Thailand.

400. *Bamboosiella exastis* (Ananthakrishnan and Kudô, 1974). Distribution: China (Yunnan, Shandong, Taiwan) (Sha et al. 2003a); Japan, Thailand.

401. *Bamboosiella nayari* (Ananthakrishnan, 1958). Distribution: China (Hainan, Guangxi, Fujian) (Zhang 1984c; Zhang et al. 1999; Sha et al. 2003a); India.

402. *Bamboosiella varia* (Ananthakrishnan and Jagadish, 1969). Distribution: China (Guangdong, Hainan) (Zhang 1984b, c; Tong and Zhang 1989; Sha et al. 2003a); India.

Bradythrips Hood and Williams, 1925

403. *Bradythrips zhangii* Wang and Tong, 2007. Distribution: China (Guangdong) (Wang and Tong 2007).

Cephalothrips Uzel, 1895

404. *Cephalothrips brachychaitus* Han et Cui, 1991.

Distribution: China (Sichuan) (Han *et al.* 1991b; Han and Cui 1992; Han 1997a).

Crotonothrips Ananthakrishnan, 1968

405. *Crotonothrips dentifer* Priesner, 1935. **Distribution:** China (Taiwan) (Okajima 2006); Japan.

Deplorothis Mound and Walker, 1986

406. *Deplorothis acutus* Okajima, 1989. **Distribution:** China (Taiwan) (Okajima 1989).

407. *Deplorothis medius* Okajima, 1989. **Distribution:** China (Taiwan) (Okajima 1989).

Dolichothrips Karny, 1912

408. *Dolichothrips flavipes* (Moulton, 1928). **Distribution:** China (Taiwan, Hainan, Guangdong) (Zhang 1984c; Han 1997a).

409. *Dolichothrips macarangai* (Moulton, 1928). **Distribution:** China (Taiwan, Hainan, Guangdong) (Zhang 1984b, c; Han 1997a).

410. *Dolichothrips pumilus* Priesner, 1935. **Distribution:** China (Taiwan) (Priesner 1935; Zhang and Tong 1993c).

411. *Dolichothrips zyziphi* (Bagnall, 1923). **Distribution:** China (Yunnan) (Han 1997a); India.

Dyothrips Kudô, 1974

412. *Dyothrips pallescens* (Hood, 1919). **Distribution:** China (Guangdong) (Han 1997a).

Ecacanthothrips Bagnall, 1909

413. *Ecacanthothrips inarmatus* Kurosawa, 1932. **Distribution:** China (Guangdong) (Han 1997a); Japan.

414. *Ecacanthothrips kolibaci* Pelikan, 2000. **Distribution:** China (Pelikán 2000).

415. *Ecacanthothrips tibialis* (Ashmead, 1903). **Distribution:** China (Taiwan, Guangdong, Hainan, Yunnan) (Zhang 1982a, 1984b; Tong and Zhang 1989; Zhang and Tong 1993b; Han 1997a); Japan, Vietnam, Indonesia, Malaysia, India, New Zealand, Australia.

Eugynothrips (Loepothrips) Priesner, 1952

416. *Eugynothrips (Loepothrips) intorquens* (Karny, 1912). **Distribution:** China (Taiwan) (Han 1997a); Japan, Indonesia.

Gigantothrips Zimmermann, 1900

417. *Gigantothrips elegans* Zimmermann, 1900. **Distribution:** China (Taiwan, Guangdong, Hainan) (Zhang 1984b; Han 1997a); Thailand, India, Philippines, Indonesia.

418. *Gigantothrips tibialis* Bagnall, 1921. **Distribution:** China (Guangdong, Hainan) (Zhang 1984b); Sri Lanka.

419. *Gigantothrips vanapennis* Moulton, 1928. **Distribution:** China (Taiwan) (Zhang and Tong 1993c); Japan, Indonesia, Thailand, North and South America.

Gynaikothrips Zimmermann, 1900

420. *Gynaikothrips ficorum* (Marchal, 1908). **Distribution:** China (Fujian, Taiwan, Guangdong, Hainan, Guangxi, Yunnan, Beijing) (Han 1997a; Reitz *et al.* 2011); Widespread around the tropics and subtropics.

421. *Gynaikothrips insulsus* Priesner, 1939. **Distribution:**

China (Taiwan) (Priesner 1939).

422. *Gynaikothrips uzeli* (Zimmermann, 1900). **Distribution:** China (Taiwan, Guangdong, Hainan, Fujian, Yunnan) (Kudô 1974; Zhang 1984b; Zhang and Tong 1993b; Zhang *et al.* 1999; Reitz *et al.* 2011); Indonesia.

Habrothrips Ananthakrishnan, 1968

423. *Habrothrips curiosus* Ananthakrishnan, 1967. **Distribution:** China (Taiwan) (Chen 1980; Zhang and Tong 1993c); India.

Haplothrips Amyot and Serville, 1843

Subgenus *Haplothrips* (*Haplothrips*) Amyot and Serville, 1843

424. *Haplothrips (Haplothrips) aculeatus* (Fabricius, 1803). **Distribution:** China (Widespread in China) (Meng 1961; Han *et al.* 1979; Zhang 1984b,c; Tang *et al.* 2002; Zhang and Tong 1993b; Zhang *et al.* 1999, 2004b; He *et al.* 1992; Han 1988, 1993b, 1996, 1997a,b; Yang *et al.* 1993; Reitz *et al.* 2011); Japan, South-East Asia, Western Europe, Iran.

425. *Haplothrips (Haplothrips) allii* Priesner, 1935. **Distribution:** China (Guangdong, Yunnan, Hainan, Taiwan) (Priesner 1935; Zhang 1984b, c).

426. *Haplothrips (Haplothrips) arundinariae* Takahashi, 1937. **Distribution:** China (Taiwan) (Takahashi 1937; Zhang and Tong 1993c).

427. *Haplothrips (Haplothrips) breviseta* Duan, Zhao and Yang, 1998. **Distribution:** China (Inner Mongolia) (Duan *et al.* 1998b).

428. *Haplothrips (Haplothrips) certus* Priesner, 1929. **Distribution:** China (Taiwan) (Takahashi 1936; Zhang 1984c); Indonesia, Sumatra.

429. *Haplothrips (Haplothrips) chinensis* Priesner, 1933. **Distribution:** China (Widespread in China) (Chen 1979c, 1980; Zhang 1984b,c; He *et al.* 1992; Han and Cui 1992; Han 1993b, 1997a,b; Yang *et al.* 1993; Zhang and Tong 1993b; Zhang *et al.* 1999; Tang *et al.* 2002; Huang *et al.* 2010); Korea, Japan.

430. *Haplothrips (Haplothrips) fuscipennis* Moulton, 1928. **Distribution:** China (Taiwan) (Zhang 1984c; Han 1997a); Japan.

431. *Haplothrips (Haplothrips) ganglbaueri* Schmutz, 1913. **Distribution:** China (Widespread in China) (Kudô 1974; Zhang 1984b, c; Zhang and Tong 1993b; Zhang *et al.* 1999; Wang and Hsu 1996); Iran, Japan, Pakistan, Sri Lanka, India, Indonesia, Egypt.

432. *Haplothrips (Haplothrips) gowdeyi* (Franklin, 1908). **Distribution:** China (Fujian, Taiwan, Jiangxi, Hunan, Guangdong, Hainan, Guangxi, Sichuan, Guizhou, Yunnan, Tibet) (Takahashi 1936; Zhang 1984b,c; Chang 1987; Zhang and Tong 1993b; Han 1988, 1997a; Zhang and Tong 1993b; Zhang *et al.* 1999); Japan, Latin America, India.

433. *Haplothrips (Haplothrips) jordani* (Bagnall, 1909). **Distribution:** China (Taiwan); Indonesia.

434. *Haplothrips (Haplothrips) kurdjumovi* Karny, 1913. **Distribution:** China (Gansu, Ningxia, Inner Mongolia, Liaoning, Heilongjiang, Jilin, Xinjiang) (Zhang 1984c); Iran, West Europe.

435. *Haplothrips (Haplothrips) leucanthemi* (Schränk, 1781). **Distribution:** China (Taiwan, Guangdong, Guangxi, Hainan) (Zhang 1984b, c; Han 1997a); Iran, Argentina,

Chile, South America, North America.

436. *Haplothrips (Haplothrips) montivagus* Priesner, 1935. Distribution: China (Taiwan) (Priesner 1935).

437. *Haplothrips (Haplothrips) pirus* Bhatti, 1967. Distribution: China (Sichuan, Guangdong, Hainan) (Zhang 1984b, c); India.

438. *Haplothrips (Haplothrips) reuteri* (Karny, 1907). Distribution: China (Inner Mongolia) (Yang et al. 1993; Han 1997a); Russia, Mongolia, India, Pakistan, Europe, Iran, Sudan, Egypt, Yugoslavia.

439. *Haplothrips (Haplothrips) subtilissimus* (Haliday, 1852). Distribution: China (Zhejiang, Fujian, Guangdong) (Han 1997a); Iran, Japan, Middle of Asia, Europe, North America.

440. *Haplothrips (Haplothrips) tenuipennis* Bagnall, 1918. Distribution: China (Wuhan, Yunnan, Tibet, Jingzhou, Inner Mongolia, Ningxia, Zhejiang) (Han and Cui 1992, Tang et al. 2002, Han 1988, 1997a, Zhang et al. 2004b); India, Indonesia.

441. *Haplothrips (Haplothrips) tritici* (Kurdjumov, 1912). Distribution: China (Gansu, Xinjiang, Weiyuan, the provinces north of the Yellow River) (Zhang 1984c; Han 1997a; Reitz et al. 2011); Iran, Soviet Union, Siberia, Korea, Europe.

***Heliothripoides* Okajima, 1987**

442. *Heliothripoides reticulatus* Okajima, 1987. Distribution: China (Hainan) (Tong and Zhang 1989); Indonesia.

***Holothrips* Karny, 1911**

443. *Holothrips attenuatus* Okajima, 1987. Distribution: China (Fujian, Taiwan) (Tong and Zhang 1989; Han and Li 1999).

444. *Holothrips formosanus* Okajima, 1987. Distribution: China (Taiwan, Hainan, Fujian) (Tong and Zhang 1989; Han and Li 1999; Zhang et al. 1999).

445. *Holothrips hunanensis* Han and Li, 1999. Distribution: China (Hunan) (Han and Li 1999).

446. *Holothrips latidentis* Okajima, 1987. Distribution: China (Taiwan); Japan (Okajima 2006).

447. *Holothrips okinawanus* Okajima, 1987. Distribution: China (Taiwan, Fujian, Henan) (Tong and Zhang 1989; Han and Li 1999); Japan.

448. *Holothrips porifer* Okajima, 1987. Distribution: China (Taiwan) (Tong and Zhang 1989; Han and Li 1999); Japan.

449. *Holothrips ryukyuensis* Okajima, 1987. Distribution: China (Fujian) (Tong and Zhang 1989; Han and Li 1999; Zhang et al. 1999); Japan.

450. *Holothrips typicus* (Ananthakrishnan, 1967). Distribution: China (Taiwan) (Tong and Zhang 1989; Han and Li 1999); India.

***Hoplandrothrips* Hood, 1912**

451. *Hoplandrothrips bidens* (Bagnall, 1910). Distribution: China (Beijing) (Han 1997a); Iran, Hungary, France, Britain, New Zealand.

452. *Hoplandrothrips flavipes* (Bagnall, 1923). Distribution: China (Jiangsu, Taiwan, Fujian) (Tong and Zhang 1989; Zhang and Tong 1993b; Zhang et al. 1999); Philippines, India, Hawaii, Solomon Islands, Europe.

453. *Hoplandrothrips nobilis* Priesner, 1939. Distribution: China (Guangdong) (Tong and Zhang 1989); India.

454. *Hoplandrothrips obesametae* Chen, 1980. Distribution: China (Fujian, Taiwan, Hainan) (Chen 1980; Tong and Zhang 1989; Zhang et al. 1999).

455. *Hoplandrothrips orientalis* (Moulton, 1927). Distribution: China (Moulton 1927).

456. *Hoplandrothrips truncatoapicus* Guo, Feng, and Duan, 2004. Distribution: China (Henan) (Guo et al. 2004).

***Hoplothrips* Amyot and Serville, 1843**

457. *Hoplothrips aceris* (Karny, 1913). Distribution: China (Fujian, Guangdong, Hainan) (Zhang 1980a; Han 1997a; Zhang et al. 1999); Japan.

458. *Hoplothrips flavipes* (Bagnall, 1910). Distribution: China (Fujian, Jiangsu, Guangdong, Hainan) (Zhang 1982a, 1984b; Tong and Zhang 1989; Han 1997a; Zhang et al. 1999); Japan.

459. *Hoplothrips fungosus* Moulton, 1928. Distribution: China (Taiwan, Beijing, Fujian, Hainan) (Zhang 1982a; Han 1993a, 1997a; Zhang et al. 1999; Reitz et al. 2011); Japan, India.

460. *Hoplothrips japonicus* Karny, 1913. Distribution: China (Taiwan) (Okajima 2006); Japan, USA.

461. *Hoplothrips mainlingensis* Han, 1988. Distribution: China (Hunan, Tibet) (Han 1988, 1997a).

462. *Hoplothrips orientalis* (Ananthakrishnan, 1969). Distribution: China (Taiwan) (Okajima 2006); India.

***Horistothrips* Morgan, 1913**

463. *Horistothrips palidispinosus* Steinweden and Moulton, 1930. Distribution: China (Zhejiang, Jiangxi) (Zhang and Tong 1993c).

***Hydiorhrips* Hood, 1938**

464. *Hydiorhrips brunneus* Okajima, 1995. Distribution: China (Taiwan) (Okajima 2006); Japan.

465. *Hydiorhrips guangdongensis* Wang, Tong and Zhang, 2006. Distribution: China (Guangdong) (Wang et al. 2006).

466. *Hydiorhrips japonicus* Okajima, 1977. Distribution: China (Guangdong) (Tong and Zhang 1989); Japan.

***Karnyothrips* Watson, 1923**

467. *Karnyothrips flavipes* (Jones, 1912). Distribution: China (Sichuan, Hunan, Guangdong, Guangxi, Hainan, Fujian) (Zhang 1984b, c; Zhang and Tong 1993b; Zhang et al. 1999); Japan, India, Hawaii.

468. *Karnyothrips melaleucus* (Bagnall, 1911). Distribution: China (Taiwan, Yunnan, Guizhou, Fujian, Guangdong, Guangxi, Hainan) (Kudô 1974; Chen 1980; Zhang 1984b, c; Zhang and Tong 1993b; Zhang et al. 1999); Vietnam, Denmark, Indonesia, India.

***Leeuwenia* Karny, 1912**

469. *Leeuwenia coriacea* (Bagnall, 1912). Distribution: China (Guangdong, Hainan, Fujian) (Zhang 1984b; Zhang et al. 1999); India.

470. *Leeuwenia flavicornata* Zhang and Tong, 1993. Distribution: China (Yunnan) (Zhang and Tong 1993b).

471. *Leeuwenia karnyana* Priesner, 1929. Distribution:

China (Hainan, Hunan) (Han 1997a); India.

472. *Leeuwenia pasanii* (Mukaigawa, 1912). Distribution: China (Taiwan, Yunnan, Guangdong) (Han 1997a); Japan, Vietnam.

473. *Leeuwenia pugnatrix* Priesner, 1935. Distribution: China (Taiwan, Fujian) (Zhang et al. 1999).

474. *Leeuwenia taiwanensis* Takahashi, 1936. Distribution: China (Taiwan) (Takahashi 1936; Tong and Zhang 1993c).

475. *Leeuwenia vorax* Ananthakrishnan, 1970. Distribution: China (Hainan) (Han 1997); India.

***Liophlaeothrips* Priesner, 1919**

476. *Liophlaeothrips succintus* Ananthakrishnan and Jagadish, 1969. Distribution: China (Guangdong, Hainan) (Zhang 1984b); India.

***Liothrips* Uzel, 1895**

Subgenus *Liothrips* (*Liothrips*) Uzel, 1895

477. *Liothrips* (*Liothrips*) *adusticornis* (Karny, 1916). Distribution: China (Fujian) (Zhang et al. 1999); Indonesia.

478. *Liothrips* (*Liothrips*) *bomiensis* Han, 1988. Distribution: China (Tibet) (Han 1988, 1997a).

479. *Liothrips* (*Liothrips*) *bournerorum* Han, 1993. Distribution: China (Sichuan) (Han 1993, 1997a).

480. *Liothrips* (*Liothrips*) *brevitubus* Karny, 1964. Distribution: China (Taiwan) (Han 1997a); Indonesia.

481. *Liothrips* (*Liothrips*) *chinensis* Han, 1997. Distribution: China (Sichuan) (Han 1997a, b).

482. *Liothrips* (*Liothrips*) *citricornis* (Moulton, 1928). Distribution: China (Taiwan, Hainan, Henan) (Zhang 1984b; Han 1997a, b); Illinois.

483. *Liothrips* (*Liothrips*) *diwasabiae* Han, 1997. Distribution: China (Sichuan) (Han 1997b).

484. *Liothrips* (*Liothrips*) *fagraeae* Priesner, 1968. Distribution: China (Sichuan) (Han 1997a); Indonesia.

485. *Liothrips* (*Liothrips*) *floridensis* (Watson, 1913). Distribution: China (Guangdong, Hainan, Fujian) (Zhang 1984b; Zhang et al. 1999); Florida.

486. *Liothrips* (*Liothrips*) *fuscus* (Steinweden and Moulton, 1930). Distribution: China (Zhejiang) (Han 1997a).

487. *Liothrips* (*Liothrips*) *heptapleurinus* Priesner, 1935. Distribution: China (Taiwan) (Okajima 2006).

488. *Liothrips* (*Liothrips*) *invisus* (Cott, 1956). Distribution: China (Taiwan) (Wang 2002); California.

489. *Liothrips* (*Liothrips*) *karnyi* (Bagnall, 1914). Distribution: China (Taiwan) (Kudô 1974); Sri Lanka.

490. *Liothrips* (*Liothrips*) *kuwanai* (Moulton, 1928). Distribution: China (Taiwan) (Han 1997a).

491. *Liothrips* (*Liothrips*) *kuwayamai* (Moulton, 1928). Distribution: China (Yunnan, Taiwan) (Han 1997a).

492. *Liothrips* (*Liothrips*) *luzonensis* (Priesner, 1939). Distribution: China (Taiwan) (Wang 2002); Philippines.

493. *Liothrips* (*Liothrips*) *piperinus* Priesner, 1935. Distribution: China (Taiwan, Guangdong, Hainan, Fujian) (Kudô 1974; Zhang 1984b; Zhang and Tong 1993b; Zhang et al. 1999; Okajima 2006).

494. *Liothrips* (*Liothrips*) *sanxianensis* Han, 1997. Distribution: China (Hubei, Sichuan) (Han 1997b).

495. *Liothrips* (*Liothrips*) *setinodis* (Reuter, 1880). Distribution: China (Sichuan) (Han 1997a); India, outside

the Caucasus, Eastern Europe, Western Europe.

496. *Liothrips* (*Liothrips*) *sinarundinariae* Han, 1997. Distribution: China (Sichuan) (Han 1997b).

497. *Liothrips* (*Liothrips*) *styracinus* Priesner, 1968. Distribution: China (Fujian, Taiwan) (Zhang et al. 1999).

498. *Liothrips* (*Liothrips*) *takahashii* (Moulton, 1928). Distribution: China (Taiwan) (Han 1997a); Indonesia.

499. *Liothrips* (*Liothrips*) *terminaliae* Moulton, 1928. Distribution: China (Taiwan) (Han 1997a).

500. *Liothrips* (*Liothrips*) *turkestanicus* (John, 1928). Distribution: China (Ningxia, Inner Mongolia) (Yang et al. 1993; Han 1997a); Turkestan.

501. *Liothrips* (*Liothrips*) *vaneeckei* Priesner, 1920. Distribution: China (Liaoning, Jilin, Heilongjiang, Fujian, Taiwan, Guangdong, Hainan, Guangxi) (Zhang and Tong 1993b; Zhang et al. 1999; Han 1997a; Reitz et al. 2011); Korea, Japan, Italy, the Netherlands, Austria, North America, New Zealand.

Subgenus *Liothrips* (*Zopyrothrips*) Priesner, 1968

502. *Liothrips* (*Zopyrothrips*) *claripennis* (Karny, 1916). Distribution: China (Taiwan) (Wang 2002); Indonesia.

503. *Liothrips* (*Zopyrothrips*) *heptapleuricola* (Takahashi, 1937). Distribution: China (Taiwan) (Takahashi 1937).

504. *Liothrips* (*Zopyrothrips*) *vitivorus* (Priesner, 1935). Distribution: China (Taiwan) (Priesner 1935).

***Litotetothrips* Priesner, 1929**

505. *Litotetothrips hainanensis* Feng and Guo, 2004. Distribution: China (Hainan) (Feng and Guo 2004).

506. *Litotetothrips pasaniae* Kurosawa, 1937. Distribution: China (Taiwan) (Okajima 2006); Japan.

507. *Litotetothrips rotundus* (Moulton, 1928). Distribution: China (Taiwan, Hong Kong) (Han 1997a); Japan.

***Manothrips* Priesner, 1953**

508. *Manothrips fortis* Priesner, 1953. Distribution: China (Fujian) (Zhang et al. 1999); Indonesia, Sumatra.

***Medogothrips* Han, 1988**

509. *Medogothrips reticulatus* Han, 1988. Distribution: China (Tibet) (Han 1988, 1997a).

***Megalothrips* Uzel, 1895**

510. *Megalothrips roundus* Guo, Cao and Feng, 2010. Distribution: China (Hubei) (Guo et al. 2010).

***Mesothrips* Zimmermann, 1900**

511. *Mesothrips alluaudi* Vuillet, 1914. Distribution: China (Taiwan) (Takahashi 1936; Zhang and Tong 1993c); Madagascar.

512. *Mesothrips claripennis* Moulton, 1928. Distribution: China (Guangdong, Hainan, Taiwan) (Zhang 1984b).

513. *Mesothrips jordani* Zimmermann, 1900. Distribution: China (Fujian, Taiwan, Guangdong, Hong Kong, Hainan, Yunnan, Guangdong) (Zhang 1984b; Zhang and Tong 1993b; Zhang et al. 1999; Han 1997a); India, Indonesia.

514. *Mesothrips manii* Ananthakrishnan, 1972. Distribution: China (Guangdong, Hainan, Fujian) (Zhang

1984b; Zhang *et al.* 1999); India.

515. *Mesothrips mouni* Ananthakrishnan, 1976. Distribution: China (Guangdong, Hainan, Hong Kong) (Zhang 1984b).

516. *Mesothrips pyctes* Karny, 1916. Distribution: China (Taiwan) (Wang 2002); Indonesia.

***Mystrothrips* Priesner, 1949**

517. *Mystrothrips flavidus* Okajima, 2006. Distribution: China (Guangdong) (Wang *et al.* 2008b); Japan.

518. *Mystrothrips longantennus* Wang, Tong and Zhang, 2008. Distribution: China (Yunnan, Guangdong) (Wang *et al.* 2008a).

***Oidanothrips* Moulton, 1944**

519. *Oidanothrips frontalis* (Bagnall, 1914). Distribution: China (Yunnan) (Tong and Zhang 1989; Zhang and Tong 1993b); Japan.

520. *Oidanothrips notabilis* Feng, Guo and Duan, 2006. Distribution: China (Henan) (Feng *et al.* 2006).

521. *Oidanothrips taiwanus* Okajima, 1999. Distribution: China (Taiwan) (Okajima 1999).

522. *Oidanothrips takasago* Okajima, 1999. Distribution: China (Taiwan) (Okajima 1999).

***Okajimathrips* Bhatti, 1992**

523. *Okajimathrips kentingensis* (Okajima, 1986). Distribution: China (Taiwan) (Okajima 1986).

***Phenicothrips* Bhatti, 1995**

524. *Phenicothrips callosae* Priesner, 1968. Distribution: China (Guangdong, Hainan) (Zhang 1984b); Indonesia.

525. *Phenicothrips eugeniae* (Priesner, 1930). Distribution: China (Guangdong, Hainan) (Zhang 1984b); Malaysia, India.

526. *Phenicothrips siamensis* (Karny, 1923). Distribution: China (Taiwan) (Zhang and Tong 1993c); Thailand.

***Phylladothrips* Priesner, 1933**

527. *Phylladothrips pallidus* Okajima, 1988. Distribution: China (Taiwan) (Tong and Zhang 1989).

528. *Phylladothrips pictus* Okajima, 1988. Distribution: China (Taiwan) (Tong and Zhang 1989); Japan.

***Plectrothrips* Hood, 1908**

529. *Plectrothrips corticinus* Priesner, 1935. Distribution: China (Beijing, Taiwan) (Han 1997a); Japan.

530. *Plectrothrips hiromasai* Okajima, 1981. Distribution: China (Taiwan) (Okajima 2006); Japan.

***Plicothrips* Bhatti, 1979**

531. *Plicothrips apicalis* (Bagnall, 1915). Distribution: China (Taiwan) (Okajima 2006); India.

***Podothrips* Hood, 1913**

532. *Podothrips lucasseni* (Kruger, 1890). Distribution: China (Taiwan) (Okajima 2006); USA, Indonesia, Thailand.

533. *Podothrips luteus* Okajima, 1978. Distribution: China (Taiwan) (Okajima 1986).

534. *Podothrips odonaspicola* Kurosawa, 1937. Distribution: China (Guangdong, Taiwan) (Zhang 1984c);

Zhang and Tong 1993c); Japan.

***Praepodothrips* Priesner and Seshadri, 1953**

535. *Praepodothrips flavicornis* (Zhang, 1984). Distribution: China (Guangdong, Hainan) (Zhang 1984c).

536. *Praepodothrips yunnanensis* Zhang and Tong, 1993. Distribution: China (Yunnan) (Zhang and Tong 1993b).

***Preeriella* Hood, 1939**

537. *Preeriella armigera* Okajima, 1998. Distribution: China (Taiwan) (Okajima 2006); Japan.

538. *Preeriella formosana* Okajima, 1998. Distribution: China (Taiwan) (Okajima 1998).

539. *Preeriella parvula* Okajima, 1978. Distribution: China (Guangdong, Yunnan) (Tong and Zhang 1989; Zhang and Tong 1993b); Thailand, Indonesia.

***Psalidothrips* Priesner, 1932**

540. *Psalidothrips amens* Priesner, 1932. Distribution: China (Guangdong, Hainan) (Zhang and Tong 1997; Wang *et al.* 2007); Indonesia (Java).

541. *Psalidothrips armatus* Okajima, 1983. Distribution: China (Guangdong, Hainan) (Tong and Zhang 1989; Zhang and Tong 1997; Wang *et al.* 2007); Thailand.

542. *Psalidothrips ascitus* (Ananthakrishnan, 1969). Distribution: China (Guizhou, Yunnan, Guangdong, Hainan, Taiwan) (Tong and Zhang 1989; Zhang and Tong 1993b, 1997; Wang *et al.* 2007); Japan, West Malaysia, India.

543. *Psalidothrips bicoloratus* Wang, Tong and Zhang, 2007. Distribution: China (Guangdong) (Wang *et al.* 2007).

544. *Psalidothrips chebalingicus* Zhang and Tong, 1997. Distribution: China (Guangdong) (Zhang and Tong 1997; Wang *et al.* 2007).

545. *Psalidothrips elagatus* Wang, Tong and Zhang, 2007. Distribution: China (Guangdong) (Wang *et al.* 2007).

546. *Psalidothrips lewisi* (Bagnall, 1914). Distribution: China (Guangdong, Hainan) (Tong and Zhang 1989; Zhang and Tong 1997; Wang *et al.* 2007); Japan.

547. *Psalidothrips longidens* Wang, Tong and Zhang, 2007. Distribution: China (Guangdong) (Wang *et al.* 2007).

548. *Psalidothrips simplus* Haga, 1973. Distribution: China (Guizhou, Guangdong, Hainan) (Tong and Zhang 1989; Zhang and Tong 1997; Wang *et al.* 2007); Japan, Korea.

***Psephenothrips* Reyes, 1994**

549. *Psephenothrips machili* (Moulton, 1928). Distribution: China (Taiwan) (Wang 2002).

***Pygmaeothrips* Karny, 1920**

550. *Pygmaeothrips angusticeps* (Hood, 1908). Distribution: China (Taiwan) (Kudô 1974; Han 1997a); Australia, USA, Argentina, India, Singapore, Indonesia, Hawaii.

***Sophiothrips* Hood, 1934**

551. *Sophiothrips nigrus* Ananthakrishnan, 1971. Distribution: China (Taiwan) (Tong and Zhang 1989); Japan, Singapore, Malaysia, Indonesia, India.

552. *Sophiothrips typicus* (Ananthakrishnan, 1964). Distribution: China (Taiwan) (Tong and Zhang 1989);

India, Indonesia.

Stephanothrips Trybom, 1913

553. *Stephanothrips formosanus* Okajima, 1976. Distribution: China (Taiwan) (Okajima 1976; Tong and Zhang 1989; Han 1997a; Wang and Tong 2007).

554. *Stephanothrips japonicus* Saikawa, 1974. Distribution: China (Taiwan, Fujian, Guizhou, Guangdong, Hunan) (Okajima 1976; Tong and Zhang 1989; Han 1993a; 1997a; Zhang et al. 1999; Wang and Tong 2007); Japan.

555. *Stephanothrips kentingensis* Okajima, 1976. Distribution: China (Taiwan, Guangdong) (Okajima 1976; Tong and Zhang 1989; Han 1997a; Wang and Tong 2007); Japan.

556. *Stephanothrips occidentalis* Hood and Williams, 1925. Distribution: China (Taiwan, Guangdong, Yunnan) (Okajima 1976; Tong and Zhang 1989; Zhang and Tong 1993b; Han 1997a; Wang and Tong 2007); Japan, Thailand, Malaysia, Philippines, South Africa, Angola, Jamaica, Trinidad, Mexico, America, Australia.

Stigmothrips Ananthakrishnan, 1964

557. *Stigmothrips chinensis* Zhang and Tong, 1990. Distribution: China (Yunnan, Guangdong) (Zhang and Tong 1990b, 1993b).

558. *Stigmothrips russatus* Haga, 1973. Distribution: China (Yunnan, Guangdong, Guizhou, Hunan, Sichuan, Hainan) (Tong and Zhang 1989; Zhang and Tong 1993b); Japan.

Strepterothrips Hood, 1934

559. *Strepterothrips orientalis* Ananthakrishnan, 1964. Distribution: China (Taiwan) (Chen 1980; Okajima 1995); India.

Terthrothrips Karny, 1925

560. *Terthrothrips apterus* Kudô, 1978. Distribution: China (Guizhou, Hunan, Guangdong) (Wang and Tong 2011); Japan.

561. *Terthrothrips parvus* Okajima, 2006. Distribution: China (Guangdong, Hainan) (Wang and Tong 2011); Japan.

562. *Terthrothrips palmatus* Wang and Tong, 2011. Distribution: China (Yunnan, Hainan) (Wang and Tong 2011).

Veerabahuthrips Ramakrishna, 1932

563. *Veerabahuthrips longicornis* Okajima, 1978. Distribution: China (Fujian) (Han 1993a; Zhang et al. 1999); Thailand.

Xylaplothrips Priesner, 1928

564. *Xylaplothrips inquilinus* (Priesner, 1921). Distribution: China (Yunnan, Fujian, Guangdong, Hainan, Taiwan) (Zhang 1984b, c; Tong and Zhang 1989; Zhang and Tong 1993b; Zhang et al. 1999); Japan, Java, India.

565. *Xylaplothrips palmerae* Chen, 1980. Distribution: China (Taiwan) (Chen 1980; Tong and Zhang 1989).

566. *Xylaplothrips pictipes* (Bagnall, 1919). Distribution: China (Yunnan) (Zhang and Tong 1993b; Han 1997a); India.

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