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Records of the Zoological Survey of India

**A taxonomic review of Oriental
Phytoseiidae with key to genera
and species.**

S. K. Gupta

Issued by the Director
Zoological Survey of India, Calcutta

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GENERA AND SPECIES

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A TAXONOMIC REVIEW OF ORIENTAL PHYTOSEIIDAE
WITH KEYS TO GENERA AND SPECIES

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INTRODUCTION

The mites of the family Phytoseiidae have been recognised for over seventy five years as potential predators of phytophagous mites (Parrott *et al.*, 1906 ; Gilliatt, 1935 ; Huffaker & Spitzer, 1951 ; Fleschner & Ricker, 1954 ; Chant, 1959a ; McMurtry & Scriven, 1964, 1964a ; McMurtry *et al.*, 1970 ; Huffaker *et al.*, 1970 ; Van de Vrie *et al.*, 1972 ; Kamath, 1968 ; Mallik, 1974 ; Puttaswamy 1978 ; Jagadish & Nagesha Chandra, 1979 ; Somchoudhury, 1979, 1981 ; Channa-Basavanna, 1981, 1981a ; Mallik & ChannaBasavanna, 1983, etc.) and it has been proved beyond doubt that these mites, if properly and judiciously utilised, can bring effective and profitable biological control of phytophagous mites. In view of this importance, the phytoseiid mites have drawn worldwide interest and considerable amount of work has been done all over the world on the exploration of fauna, resulting in the discovery of over 800 species. So far as the Oriental region is concerned, 279 species in 11 genera and 3 subfamilies are known, representing 142 species from India (Narayanan & Khot, 1959 ; Narayanan & Kaur, 1960 ; Narayanan *et al.*, 1960 ; Chant, 1960 ; Narayanan & Ghai, 1964 ; Ghai, 1964 ; Rao & Rao, 1964 ; Ghai & Menon, 1967, 1969 ; Muma, 1967 ; Bhattacharyya, 1969 ; Gupta 1969-1986 ; Ray & Gupta, 1981, 83 ; Gupta & Dhooria, 1972, 1974 ; Gupta *et al.*, 1971 ; Gupta & Nahar, 1981 ; Gupta & Ray, 1981 ; 1981a ; Ghai & Gupta, 1984 ; Rather, 1985 ; Denmark & Rather, 1984), 65 species from Pakistan (Chaudhri, 1965, 1967, 1968, 1973, 1975, 1975a, 1975b ; Chaudhri *et al.*, 1974, 1979 ; Denmark, 1966 ; Muma, 1967 and Kazimi & Ghani, 1971), 29 species from Thailand (Ehara & Bhandhufalck, 1977 ; Ehara, 1977), 27 species from Taiwan (Ehara, 1970 ; Lo, 1970 ; Tseng, 1976, 1977, 1984 ; Tjying, 1977 ; Chang & Tseng, 1978 ; Shih, 1984 ; Ehara, 1977), 21 species from Philippines (Chant, 1959 ; Corpuz, 1966 ; Corpuz & Rimando, 1966 ; Swirski & Golan, 1969 ; Schicha & Corpuz—Raros, 1985), 15 species

from Indonesia (Chant, 1957 ; Chant, 1959a ; Evans, 1952, 1953 ; Oomen, 1982), 6 species from Malayasia (Evans, 1952, 1953 ; Muma, 1967 ; Ehara, 1977) and 40 species from South China (Jie-Liu *et. al.*, 1980 ; Lai-rong & Li-sheng, 1981 ; Lai-rong & Li-sheng, 1981a ; Wei-nan, 1984, 1984a ; Wei-nan & Zhao-Quan, 1984, 1985, 1985a ; Wei-nan & Xing, 1983, 1983a). So far the information is available to the author, nothing is known from other parts of the Oriental region. Ehara (1966) catalogued the Asian phytoseiid mites and Prasad (1974) catalogued the Indian mites. The former included 36 species from Oriental region and the latter included 58 species of Phytoseiidae from India. Gupta (1974) published a brief review of Indian Phytoseiidae which also included 58 species. Since the publication of Ehara's catalogue in 1966 and till the end of 1985 several species were added from the Oriental region and it was felt necessary to have a consolidated account of this important group of mite from this region. With this view in mind, all the 279 species are reviewed here giving their relevant synonymy, diagnosis, habitat records, type material, type repositories, distribution, etc. and also giving the keys to the subfamilies, genera, subgenera and species, so as to give the taxonomists and workers in the applied field a ready reference to Oriental Phytoseiidae.

The measurements given in the text are in microns. The abbreviations used for different Museums while giving type repositories are as below :—

- ZSI = Zoological Survey of India, Calcutta.
 BM (NH) = British Museum Natural History, London.
 USNM = United States National Museum, Washington D. C.
 UAL = Dept. of Entomology, University of Agriculture, Lyallpur, Pakistan.
 NPC = National Pusa Collection, IARI, New Delhi.
 Dept. Ento. Univ. Philip = Dept. of Entomology, University of Philippines.
 Univ. Inst. Agr. Israel = Dept. of Entomology, National and University Institute of Agriculture, Rehovot, Israel.
 Biol. Inst. Fac. Ed. Tott. Univ, = Biological Institute, Faculty of Education, Tottori University, Japan.
 Zool. Inst. Fac. Sci. Hokk. Univ. = Zoological Institute, Faculty of Science, Hokkaido University, Japan.

Rijksmus. Van. Nat. Hist. = Rijksmuseum Van Natuurlijke Historie,
Leiden.

UAF = Dept. of Entomology, University of Agriculture,
Faisalabad, Pakistan.

Though sincere efforts were made to make this review a most up-to-date one but yet there may be some lacunae and it would be highly appreciated if those are brought to the notice of the author for rectification in future.

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FAMILY PHYTOSEIIDAE

Diagnosis : Dorsal shield entire or divided into 2 subequal shields with 20 or fewer pairs of setae (except in Gnoriminae which has 25 pairs of setae); never more than 2 pairs of sublateral setae (except in Gnoriminae which has 3 pairs); all setae on dorsum either simple, serrate or club-shaped or otherwise shaped. Peritreme extends anteriorly from mesolateral stigmata. Sternal shield well to poorly sclerotized with 2-4 pairs of setae, some may not be on shield, but present either on integument or on platelets. Genital shield truncate with a pair of setae. Ventrianal shield always present (except in *Indoseiulus*) with 2-4 pairs of preanal setae (Gnoriminae has 6-7 pairs in addition to para and postanal setae). Fixed digit of chelicera well developed, movable digit with or without teeth. Males have spermatophoral process on the movable digit of chelicera.

Type genus : **Phytoseius** Ribaga, 1904

Out of 4 subfamilies, viz. Amblyseiinae Muma, Phytoseiinae Berlese, Gnoriminae Chaudhri and Macroseiinae Chant, Denmark & Baker, known under the family Phytoseiidae, the first three are represented from the Oriental region and those can be separated with the help of the following key.

Key to the subfamilies of Phytoseiidae

1. Dorsal shield with 12 pairs of lateral setae; sub-lateral setae 3 pairs, preanal setae on ventrianal shield 6 pairs ... **Gnoriminae**

- | | | |
|---|-----|--------------|
| — Dorsal shield with 8-11 pairs of lateral setae ; sub-lateral setae 2 pairs, preanal setae 2-4 pairs | ... | 2 |
| 2. Four pairs of prolateral setae | ... | Amblyseiinae |
| — Five or six pairs of prolateral setae | ... | Phytoseiinae |

Subfamily AMBLYSEIINAE Muma

Diagnosis : Muma & Denmark (1970) diagonalised this subfamily as :—dorsal shield undivided with 4-6 pairs of dorsocentral setae, 1-2 pairs of median setae, 1-4 pairs of prolateral setae out of total of 6-9 pairs. Macrosetae 1-3 on leg. IV. Males with fragmented or entire ventrianal shield with 3-4 pairs of preanal setae and usually 2 pairs of sublateral setae. Type genus *Amblyseius* Berlese, 1915.

Key to the genera of Amblyseiinae

- | | | |
|--|--------|-----------------------|
| 1. Ventrianal shield absent, only preanal setae present | | <i>Indoseiulus</i> |
| — Ventrianal shield present | ... | 2 |
| 2. R ₁ on dorsal shield | ... .. | <i>Okiseius</i> |
| — R ₁ on lateral integument | ... | 3 |
| 3. Lateral integument sclerotized so that r ₂ and R ₁ though on usual lateral position are on lateroventral extension of dorsal shield | ... .. | <i>Iphiseius</i> |
| — Lateroventral extension not sclerotized, as above | ... | 4 |
| 4. Metapodal plates large, triangular, genital shield very broad and punctate, ventrianal shield massive, genu III with six setae | ... .. | <i>Paraamblyseius</i> |
| — Metapodal plates normally paired, slender, elongate, genital and ventrianal shields usually narrow, genu III with 7 setae | ... .. | <i>Amblyseius</i> |

Genus *Amblyseius* Berlese

1915. *Amblyseius* Berlese, *Redia*, 10 : 143.
 1923. *Amblyseius* (*Seiopsis*) Berlese, *Redia*, 15 : 255.
 1948. *Amblyseius* (*Amblyseiopsis*) Garman, *Bull. Conn. agric. Exp. Stn.*, 520 : 17.
 1951. *Kampimodromus* Nesbitt, *Zool. Verh.*, 12 : 52.
 1955. *Amblyseiopsis* Muma, *Ann. ent. Soc. Am.*, 48 : 264.
 1955. *Amblyseiella* Muma, *ibid*, 48 : 266.
 1957. *Proprioseius* Chant, *Can. Ent.*, 89 : 357-358.
 1957. *Asperoseius* Chant, *ibid*, 89 : 560-562.
 1957. *Typhlodromus* (*Amblyseius*) Chant, *Can. Ent.*, 89 : 528-532.
 1959. *Phyllodromus* De Leon, *Ent. News.*, 70 : 260.
 1959. *Typhlodromus* (*Typhlodromopsis*) De Leon, *Fla. Ent.*, 42 : 113.
 1961. *Phytoscutus* Muma, *Bull. Fla St. Mus.*, 5 : 275.
 1961. *Phytoscutella* Muma, *ibid*, 5 : 275.
 1961. *Amblyseiulella* Muma, *ibid*, 5 : 276.

1961. *Proprioseiopsis* Muma, *ibid*, 5 : 277.
 1961. *Amblyseiulus* Muma, *ibid*, 5 : 278.
 1961. *Amblyscutus* Muma, 5 : 266.
 1961. *Paradromus* Muma, *ibid*, 5 : 286.
 1961. *Cydnodromus* Muma, *ibid*, 5 : 290.
 1961. *Phytodromus* Muma, *ibid*, 5 : 291.
 1961. *Typhloseiella* Muma, *ibid*, 5 : 291.
 1961. *Typhloseius* Muma, *ibid*, 5 : 291.
 1962. *Athiaseius* Wainstein, *Acarologia*, 4 : 17.
 1961. *Paraphytoseius* Swirski & Shechter, *Israel J. agric. Res.*, 11 : 113-114.
 1962. *Amblyseius* (*Ptenoseius*) Pritchard & Baker, *Hilgardia*, 33 : 29.
 1979. *Ansaria* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 63 (New synonymy).
 1979. *Kashmiricus* Chaudhri, Akbar & Rasool, *ibid.*, p. 66 (New synonymy).
 1986. *Amblyseius*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 33.

Diagnosis : Chant (1965) characterized the genus as : dorsal shield with 13-17 pairs of setae, of those, never more than 4 pairs present on pro-lateral series. Setae of diverse length, sublateral setae (r_3 , R_1) on lateral integument (except *Okiseius* where R_1 on dorsal shield). Sternal shield with 3 pairs of setae ; 4th pair on metasternal plate or on integument. Genital shield broad or narrow, truncate with a pair of genital setae. Ventrianal shield of varied shape, with 3 pairs of preanal setae ; 4 pairs of setae present on membrane around ventrianal shield ; sometimes may be 3 pairs. Metapodal plates present or absent. Anal opening ventral in position. Tritosternum present. Fixed digit of chelicera normally with teeth and *pilus dentilis* ; movable digit with or without teeth. Peritrematal shield fused anteriorly with dorsal shield ; length variable. Legs often with macrosetae on leg IV ; genu II 6-7 setae ; genu III 6-7 setae. Tibia II 6-7 setae ; tibia III 6-7 setae ; tibia IV 6 setae.

Type : *Zercon obtusus* Koch, 1839

Key to the subgenera of Amblyseius

- | | | |
|---|--------|-----------------------|
| 1. Dorsal shield with 5 pairs of postlateral setae | ... | 4 |
| — Dorsal shield with less than 5 pairs of postlateral setae | ... | 2 |
| 2. Seta Z_1 present | ... .. | 3 |
| — Seta Z_1 absent | ... .. | <i>Proprioseius</i> |
| 3. Seta S_2 present | ... .. | <i>Asperoseius</i> |
| — Seta S_2 absent | ... .. | <i>Paraphytoseius</i> |
| 4. Ventrianal shield massive covering major portion of posteroventral portion | ... .. | 5 |
| — Ventrianal shield not like above | ... .. | 6 |

5. Seta j_5 present	...	...	<i>Proprioseiopsis</i>
— Seta j_5 absent	...	...	<i>Phytoscutella</i>
6. Setae Z_5 and s_4 and or Z_4 long and whip-like, longer than distance between their bases; leg IV with macroseta on genu and erect seta on tarsus I	...	...	<i>Amblyseius</i>
— Seta Z_5 shorter, at most as long as distance between their bases; leg I with no macroseta or only one on genu, no erect seta on tarsus I	...	...	7
7. Sternal shield distinct and straight or concave posteriorly, ventrianal shield approximately shield-shaped or pentagonal	...	...	8
— Sternal shield indistinct, may be trilobate posteriorly, ventrianal shield elongate, vase-shaped or concave laterally	...	...	9
8. Z_5 and Z_4 distinctly serrate, sternal shield as wide as or wider than long, macroseta may be present on genu I and present on genu II and III	...	...	<i>Typhlodromips</i>
— Z_5 and Z_4 indistinctly serrate, sternal shield longer than wide; genu I, II and III without macroseta	...	...	<i>Neoseiulus</i>
9. Peritreme extends upto j_5 ; anterior pair of preanal setae adjacent to anterior margin of ventrianal shield	...	...	<i>Typhlodromalus</i>
— Peritreme not extends upto j_5 ; anterior pair of preanal setae removed from anterior margin of ventrianal shield	...	...	<i>Euseius</i>

Subgenus *Amblyseius* Berlese

Key to the species of *Amblyseius* (*Amblyseius*)

1. Ventrianal shield vase-shaped, with lateral margins concave	...	...	2
— Ventrianal shield triangular, pentagonal or squarish	...	...	5
2. Spermatheca with cervix straight or of uniform length	...	...	3
— Spermatheca fundibuliform	...	...	4
3. s_4 and Z_4 of same length	...	...	<i>largoensis</i>
— s_4 shorter than Z_4	...	...	<i>adhatodae</i>
4. Z_5 nearly double the length of Z_4	...	...	<i>herbicolus</i>
— Z_5 much less than double the length of Z_4	...	...	<i>impactus</i>
5. Ventrianal shield triangular	...	...	<i>obtusus</i>
— Ventrianal shield pentagonal or squarish	...	...	6
6. Z_5 very long, more than 1/2 length of dorsal shield	...	...	11
— Z_5 not so long	...	...	7
7. Cervix of spermatheca elongated or slender	...	...	<i>mcmurtryi</i>
— Cervix of spermatheca otherwise shaped	...	...	8
8. s_4 shorter than Z_4	...	...	<i>cinctus</i>
— s_4 equal to or longer than Z_4	...	...	9
9. s_4 longer than Z_4	...	...	<i>neorykei</i>
— s_4 equal to Z_4	...	...	<i>shoreae</i>

10.	s_4 slightly shorter than Z_4	...	...	11
—	s_4 noticeably shorter than Z_4	...	...	12
11.	Spermatheca with cervix long, broad, dorsal shield faintly reticulate	...	...	<i>channabasavannai</i>
—	Spermatheca with cervix narrow, tubular dorsal shield smooth	...	...	<i>kulini</i>
12.	Cervix of spermatheca looped	...	...	<i>paraaerialis</i>
—	Cervix of spermatheca almost straight	...	...	13
13.	z_2 longer than z_4	...	...	<i>aerialis</i>
—	z_2 as long as z_4	...	...	14
14.	Cervix long, tubular	...	...	<i>orientalis</i>
—	Cervix wide, funnel-shaped	...	...	<i>muraleedharani</i>

1. *Amblyseius (Amblyseius) adhatodae* Muma

1967. *Amblyseius adhatodae* Muma, *Fla. Ent.*, 50 : 268-270.
(Holotype ♀, Paratypes 1♂, 1 larve, Pakistan, Karachi, on *Adhatoda vasica*, deposited in USNM); another ♀, India : Bombay, *Ipomoea* sp.
1967. *Amblyseius ipomoeae* Ghai & Menon, *Oriental Ins.*, 1 : 71-72 (Bombay : *Ipomoea* sp., infested with tetranychids).
1986. *Amblyseius (Amblyseius) adhatodae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 37.

Diagnosis : Dorsal shield 370 long, 275 wide, lightly sclerotized with 17 pairs of setae ; j_1, j_3, s_4, Z_5, Z_4 , long ; $Z_4 > s_4$, j_1 greater than 2 times of z_2 and z_4 . Fixed digit of chelicera with 10-11 teeth, movable digit with 1 tooth, leg IV with macroseta on genu, tibia and basitarsus. Cervix of spermatheca slender and elongate.

Male : Spermatophoral process a short shank, short foot and anteriorly bent toe.

Distribution : India (Bombay), Pakistan.

Remarks : On examination of the type of *A.(A.) ipomoeae* it appeared that *ipomoeae* and *adhatodae* are conspecific.

2. *Amblyseius (Amblyseius) aerialis* (Muma)

1955. *Amblyseiopsis aerialis* Muma, *Ann. ent. Soc. Am.*, 48 : 264-266.
(Holotype ♀, USA : Florida, Lucern Park, on citrus, in USNM).
1964. *Amblyseius aerialis*, Rao & Rao, *Comm. Inst. Biol. Contr. Tech. Bull.*, 4 : 38-39. (Karnataka : citrus).
1975. *Amblyseius aerialis*, Gupta, *Internat. J. Acarol.*, 1 (2) : 31. (Karnataka : citrus).
1981. *Amblyseius aerialis*, Gupta & Nahar. *In Contrib. to Acar. in India*, p. 9., (Bihar : citrus).
1986. *A. (A.) aerialis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 39.

Diagnosis : Dorsal shield with 17 pairs of setae of those j_3 , s_4 , Z_5 , Z_4 , being long measuring, respectively, 55, 120, 288 and 144. Ventrianal shield rectangular, 115 long, 75 wide, with 3 pairs of preanal setae and a pair of elliptical preanal pore. Cervix of spermatheca tubular. Macrosetae on leg IV : genu-132, tibia-100, basitarsus-76.

Male : Spermatophoral process with small lateral process, lobate heel and club-shaped foot.

Distribution : USA, India (Karnataka, Bihar).

Remarks : It has been reported to feed on citrus mite (*P.citri*) (Rao & Rao, 1964).

3. *Amblyseius (Amblyseius) channabasavannai* Gupta

1978. *Amblyseius channabasavanni* Gupta, *Oriental Ins.*, 12 : 328-329.

(Holotype ♀, India : Kerala, Trivendrum, on *Chrysanthemum* ; Paratypes 1 ♀, 1 ♂, Tamil Nadu, Oothu, on dahlia, all in ZSI).

1986. *A. (A.) channabasavannai*, Gupta, *Fauna of India*, (Acari : Mesostigmata) Family Phytoseiidae, p. 41.

Diagnosis : Dorsal shield smooth, with 17 pairs of setae, Z_5 -212, s_4 -72, j_3 -40, j_1 -28, other setae minute. Sternal shield weakly sclerotized with 3 pairs of sternal setae, metasternal plates present. Ventrianal shield pentagonal, much longer (108) than broad (80), with 3 pairs of preanal setae : 2 pairs of metapodal plates present. Fixed digit of chelicera multidentate, 4 teeth on movable digit. Spermatheca, with tubular cervix. Macrosetae on leg IV : genu-80, tibia-60, basitarsus-52.

Male : Chaetotaxy on dorsum similar as in female except being shorter.

Distribution : India (Kerala, Tamil Nadu).

Remarks : Its biology and predatory importance were studied by Daniel (1979, 1981).

4. *Amblyseius (Amblyseius) cinctus* Corpuz & Rimando

1966. *Amblyseius cinctus* Corpuz & Rimando, *Philipp. Agric.*, 50 : 119-120.

(Holotype ♀, Philippines : Gamu, Isabela, on *Panicum pilipes* ; Paratypes 2 ♀ ♀, Echague, Isabela, on *Streblus asper*, all deposited in Dept. Ento. Univ. Philip.).

1977. *A. (A.) cinctus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 70-71, (Redescribed).

(Thailand : on *Acaripha* sp., grape, mulberry, juniper, citrus, bamboo, longan, *Sida rhombifolia*, litchi, papaya, *Casuarina*, *Hibiscus*).

Diagnosis : Dorsal shield smooth, with 17 pairs of setae and 7 pairs of pores ; j_1 , j_3 , s_4 , Z_5 , Z_4 long, other setae small. Measurements of setae : j_1 -19, j_4 - j_6 , J_2 - J_5 , 4-5 each, j_3 -35, z_2 , z_4 6-8 each, s_4 -51, Z_1 , S_2 - S_5 6-7 each, Z_5 -109, z_5 -5, Z_4 -57. Ventrianal shield pentagonal, longer than wide, lateral margins concave, with 3 pairs of preanal setae and a pair of pores. Chelicera with fixed digit multidentate, movable digit with 4 teeth. Macrosetae on leg IV : genu-79, tibia-47, basitarsus-60 ; cervix of spermatheca tubular.

Male : Chaetotaxy of male similar to that of female, setae smaller.

Distribution : Thailand, Philippines.

5. *Amblyseius (Amblyseius) herbicolus* (Chant)

1959. *Typhlodromus (Amblyseius) herbicolus* Chant, *Can. Ent.*, 91 : 84-85.
 1961. *Amblyseius (Amblyseiulus) largoensis*, Muma, *Bull. Fla. St. Mus.*, 5 (7) : 287 (not *largoensis* Muma, 1955).
 1970. *Amblyseius deleari* Muma & Denmark, *Arthropods of Florida*, 6 : 68-69. (Holotype ♀, U.S.A. : Florida, Citrus, in USNM).
 1977. *A. (A.) deleari* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 67-68.
 (Thailand : citrus ; Preu, on rambutan, santol, coffee, bamboo, *Gendarussa vulgaris*, pine, tea).
 1986. *A. (A.) herbicolus*, Gupta, fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 45.

Diagnosis : Dorsal shield smooth, 357 long, 255 wide, with 17 pairs of setae, j_1 -35, j_3 -33, s_4 -107, Z_5 -205, Z_4 -125 ; other setae small. Ventrianal shield 116 long, 67 wide, with 3 pairs of preanal setae. Fixed digit of chelicera with 5 teeth movable digit with 3 teeth. Macrosetae on leg IV : genu-129, tibia-90, basitarsus-76. Spermatheca with fundibuliform cervix and greatly swollen atrium.

Male : Spermatophoral process L-shaped, with a weakly bifurcate toe on the foot.

Distribution : U.S.A., Thailand, India (Tripura).

6. *Amblyseius (Amblyseius) impactus* Chaudhri

1968. *Amblyseius impactus* Chaudhri, *Acarologia*, 10 : 553-555.
 (Holotype ♀, Pakistan : North Sheikhpura, *Eriobotrya japonica*, in UAL.).

Diagnosis : Dorsal shield with 17 pairs of setae, smooth. Measurements of setae : j_1 -34, j_4 , j_6 . J_2 -minute, J_5 -10, j_3 -51, z_2 - z_4 minute, 7 each, s_4 -107, Z_1 -10, S_2 -14, S_4 -14, S_5 -10, Z_5 -239, z_5 -5, Z_4 -120, r_3 -10, R_1 -14. Ventrianal shield 131 long, 78 wide, with deep notch just below

preanal setae, with 3 pairs of preanal setae ; 2 pairs of metapodal plates present. Chelicera with 9 subapical teeth on the fixed digit and *pilus dentilis* ; one tooth on the movable digit. Macrosetae on leg IV ; genu-119, tibia-78, basitarsus-56.

Male : Unknown.

Distribution : Pakistan.

7. *Amblyseius (Amblyseius) kulini* Gupta

1978. *Amblyseius kulini* Gupta, *Indian J. Acar.*, 2 (2) : 63-65.

(Holotype ♀, India : Assam, Gossaigaon, on *Bambusa* sp., in ZSI).

1986. *A. (A.) kulini*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 50.

Diagnosis : Dorsal shield 300 long, 220 wide, with 17 pairs of setae. Excepting setae j_1 , j_3 , s_4 , Z_5 and Z_4 which measure respectively 28, 44, 80, 200 and 84, others are small. Sternal, metasternal and genital shields normal. Ventrianal shield pentagonal, nearly $1\frac{1}{2}$ times as long as wide with 3 pairs of preanal setae. Cervix of spermatheca, tubular. Macrosetae on leg IV : genu-80, tibia-64, basitarsus-62.

Male : Unknown.

Distribution : India (Assam).

8. *Amblyseius (Amblyseius) largoensis* (Muma)

1955. *Amblyseiopsis largoensis* Muma, *Ann. ent. Soc. Am.*, 48 : 266.

(Holotype ♀, USA : Florida, Largo, on key lime, in USNM).

1964. *Amblyseius largoensis*, Rao & Rao, *Comm. Inst. Biol. Contr. Tech. Bull.*, 4 : 38-39. (Karnataka : citrus).

1966. *A. largoensis*, Corpuz & Rimando, *Philipp. Agric.*, 50 : 120-122.

(Philippines : *Casuarina equisetifolia*, *Thuja orientalis*, fern, *Dieffenbachia picta*, *Cinnamomum camphora*, *Schizostachyum lima*, *Citrus nobilis*, *Cordyline fruticosa*, *Rhaphidophora aurea*, *Premna odorata*, *Cocos nucifera*, *Ipomoea triloba*).

1970. *A. largoensis*, Gupta, *Sci. & Cult.*, 36 : 98.

(West Bengal : *Calophyllum inophyllum*).

1970. *A. (A.) largoensis*, Ehara, *Mushi*, 43 (6) : 58.

(Taiwan : on bamboo, mango, papaya, guava, avocado, *Codiaeum variegatum*, *Capparis formosana*, *Paederia chinensis*, *Myristica cagayaneasis*, *Caryota mitis*, *Reevesia formosana*).

1971. *Amblyseius largoensis*, Gupta et. al., *Sci & Cult.*, 37 : 298.

(Himachal Pradesh : on an undet. plant infested with *T. cinnabarinus*).

1974. *A. largoensis*, Gupta, *Ent. Rec.*, 86 : 143.

1975. *A. largoensis*, Gupta, *Internat. J. Acarol.*, 1 (2) : 38.

(West Bengal : *Mangifera indica*, *Ficus* sp., *Calophyllum inophyllum*, *Musandra corymbosa*, *Tabernaemontana coronaria*).

1976. *A. largoensis*, Lo, *Bull. Sun-Yat Sen Cult. Found.*, 5 : 56-58.
(Taiwan : Chayi : on bean with *Tetranychus* sp ; Wulai, on citrus with *P. citri* ; Fuoshan on chinese hibiscus with *Tetranychus* sp. ; on purple grandilla with *Tetranychus* sp. ; peach with *Tetranychus* sp. and *P. citri* ; an undet. plant with *Eotetranychus* sp.).
1977. *A. (A.) largoensis* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 67.
(Thailand : on Citrus, pomelo, casuarina, *Lagerstroemia*, coconut).
1977. *A. largoensis*, Gupta, *Oriental Ins.*, 11 : 629-631.
(Andaman & Nicobar Isls : *Eucalyptus*, bamboo, coconut, *Tabernaemontana*, arecanut, mango, *Eugenia*, *Tectona*, fig, guava, cashewnut, pepper, citrus).
1977. *A. amtalaensis* Gupta, *Entomologists' mon. Mag.*, 112 : 53.
(Holotype ♀, West Bengal, on *Citrus medica*, in ZSI).
1977. *A. largoensis*, Gupta, *Indian J. Acar.*, 1 : 33.
(Gujarat : china rose, *Nerium*).
1978. *A. largoensis*, Gupta, *Indian J. Acar.*, 2 (2) : 65-66.
(Orissa : cashew, litchi ; Meghalaya : banana, plum, *Manglietia insignis*, chilli ; Assam : undet., *Shorea* sp. ; Tripura : papaya, *Musa*, *Bauhinia acuminata* ; Manipur : poppy, Nagaland : undet.)
1978. *A. largoensis*, Gupta, *Oriental Ins.*, 12 : 333-334.
(Tamil Nadu : Castor, banana, citrus, coconut, pomegranate, *Dalbergia* sp., eucalyptus, *Tectona grandis* ; Pondicherry : black berry, sugarcane ; Kerala : coconut, rose ; Karnataka : *Cassia*, sugarcane ; Andhra Pradesh : cashewnut).
1981. *A. largoensis*, Gupta & Nahar, *In Contrib. to Acar. in India*, p. 9 (Bihar : Mango).
1986. *A. (A.) largoensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 51.

Diagnosis : Dorsal shield smooth with 17 pairs of setae. All being small except j_1 , j_3 , s_4 , Z_5 and Z_4 which measure respectively 34, 48, 93, 270 and 95. Sternal, metasternal and genital shields normal. Ventrianal shield vase-shaped, widest at preanal level, with 3 pairs of preanal setae and a pair of pores. Macrosetae on leg IV ; genu-115, tibia-90, basitarsus-62. Spermatheca with parallel sided cervix.

Male : Chaetotaxy of dorsum similar as in female.

Distribution : India (West Bengal, Assam, Orissa, Meghalaya, Manipur, Tripura, Nagaland, Andaman & Nicobar Isls., Himachal Pradesh, Punjab, Tamil Nadu, Pondicherry, Kerala, Karnataka, Andhra Pradesh, Bihar, Gujarat), U.S.A, Taiwan, Thailand, Philippines.

Remarks : Predatory importance of this species was reported by Rao & Rao (1964), Gupta (1977) and Gupta (1981).

9. *Amblyseius (Amblyseius) mcmurtryi* Muma

1967. *Amblyseius mcmurtryi* Muma, *Fla. Ent.*, 50 : 270.
(Holotype ♀, Paratype 1 ♀, India : Assam, citrus, in USNM).

1975. *A. mcmurtryi*, Gupta, *Internat. J. Acarol.*, 1(2) : 39.

1978. *A. mcmurtryi*, Gupta, *Internat. J. Acarol.*, 2(2) : 67.
(Meghalaya : guava ; Assam : citrus).

1986. *A. (A.) mcmurtryi*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 55.

Diagnosis : Dorsal shield 360 long, 208 wide, with 17 pairs of setae, all being minute except j_1 , j_3 , s_4 , Z_5 and Z_4 which measure : 25, 36, 58, 140 and 60, respectively. Sternal, metasternal and genital shields normal. Ventrianal shield 108 long 80 wide, with 3 pairs of preanal setae and a pair of pores. Macrosetae on leg IV : genu-72, tibia-44 and basitarsus-56. Spermatheca with tubular cervix.

Male : Unknown.

Distribution : India (Assam, Meghalaya).

10. *Amblyseius (Amblyseius) neorykei* Gupta

1977. *Amblyseius neorykei* Gupta, *Entomologists' mon. Mag.*, 112 : 56-57.

(Holotype ♀, India : Darjeeling, Sukna on *Chrysanthemum* sp., in ZSI).

1986. *A. (A.) neorykei*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 59.

Diagnosis : Dorsal shield 325 long, 203 wide, with 17 pairs of setae and 6 pairs of pores. Measurements of setae j_1 -27, j_3 -49, z_2 , z_4 , Z_1 , S_2 , S_4 -5 each ; Z_5 -135, z_5 -4, Z_4 -85. Sternal shield with 3 pairs of setae and with posterolateral projections. Ventrianal shield 100 long, 81 wide, with 3 pairs of preanal setae and a pair of preanal pores. Macrosetae on leg IV : genu-70, tibia-50, basitarsus-72.

Male : Unknown.

Distribution : India (West Bengal).

11. *Amblyseius (Amblyseius) obtusus* (Koch)

1839. *Zercon obtusus* Koch, Fasc. 27.

(Holotype Italy, in moss and soil in Berlese's Collection, Florence).

1966. *Amblyseius (Amblyseius) obtusus*, Ehara, *Mushi*, 39 (2) : 22.

Diagnosis : Dorsal shield with 17 pairs of setae ; s_4 , Z_5 , Z_4 long. $z_4 = z_2$; $z_4 = S_2$, both minute. Ventrianal shield triangular with rounded converging lateral margins, with 3 pairs of preanal setae ; leg IV with 3 macrosetae, one each on genu, tibia and basitarsus.

Distribution : Indonesia (according to Ehara, 1966), Europe, Algeria, Australia, Canada.

12. *Amblyseius (Amblyseius) orientalis* Ehara

1958. *Amblyseius* sp. Ehara, *Annotes Zool. Jap.*, 31 (1) : 55.
 1959. *Amblyseius orientalis* Ehara, *Acarologia*, 1 : 291-293.
 (Holotype ♀, Paratypes 2 ♂♂, 15 ♀♀, Japan : Sapporo, Hokkaido, on *Quercus crispula*, in Zool. Inst. Fac. Sci. Hokk. Univ.).
 1978. *A. orientalis*, Gupta, *Indian J. Acar.*, 2(2) : 69-71. (Assam : undet. plant).
 1986. *A. (A.) orientalis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 61.

Diagnosis : Dorsal shield 340 long, 245 wide. Measurements of setae : j_1 -28, j_3 -56, s_4 -95, Z_5 -280, Z_4 -112 ; other setae tiny. Ventrianal shield 124 long, 80 wide. Spermatheca with tubular cervix. Macrosetae on leg IV : genu-112, tibia-64, basitarsus-72.

Male : Dorsal chaetotaxy similar to that of female except being shorter. Spermatophoral process shallowly bifurcate at the distal end.

Distribution : India (Assam), Japan.

13. *Amblyseius (Amblyseius) paraaerialis* Muma

1967. *Amblyseius paraaerialis* Muma, *Flat Ent.*, 50 : 270-271.
 (Holotype ♀, Paratypes 1 ♀, India : Kerala, on citrus ; 3 ♀♀, Assam, on citrus, all in USNM).
 1975. *Amblyseius paraaerialis*, Gupta, *Internat. J. Acarol.*, 1(2) : 40.
 1977. *Amblyseius paraaerialis* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 68-69 (Re-described).
 (Thailand : litchi, citrus, *Pinus kesiya*, *Bridelia* sp., longan, bamboo, *Urena lobata*, sugarcane, mango, guava, conifer, *Eupatorium odoratum*, tea, peach, persimmon).
 1978. *Amblyseius paraaerialis*, Gupta, *Indian J. Acar.*, 2 (2) : 71-72 (Meghalaya : undet. plant ; Assam : undet. plant).
 1986. *A. (A.) paraaerialis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 63.

Diagnosis : Dorsal shield 350 long, 210 wide, with 17 pairs of setae. Measurements of setae : j_1 -32, j_4 , j_6 , J_2 , J_5 , 4-5 each, J_3 -28, z_2 , z_4 -6 each, s_4 -68, Z_1 -9, S_2 -12, S_4 -16, S_5 -8, Z_5 -192, z_5 -6, Z_4 -84. Sternal, metasternal and genital shields normal. Ventrianal shield 104 long, 84 wide, lateral margins slightly concave, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-84, tibia-68, basitarsus-80.

Distribution : India (Assam, Meghalaya), Thailand.

14. *Amblyseius (Amblyseius) muraleedharani* Gupta

1981. *Amblyseius rhabdus*, Muraleedharan & Chandrasekharan, *Pestology*, 5 : 13
 (Tamil Nadu : Tea)—Misidentification.
 1986. *A. (A.) muraleedharani* Gupta, *Env. & Ecol.*, 3(3) : 434.

Diagnosis : Dorsal shield 403 long, 247 wide, with 17 pairs of setae, j_1 , j_3 , s_4 , Z_4 , Z_5 long measuring 27, 47, 103, 156 and 319, respectively, other setae small (5-6). Ventrianal shield pentagonal, reticulate anteriorly, with 3 pairs of preanal setae and a pair of preanal pores. Fixed digit of chelicera multidentate, movable digit 2-dentate.

Male : Not known.

Distribution : India (Tamil Nadu).

15. *Amblyseius (Amblyseius) shoreae* Gupta

1977. *Amblyseius shoreae*, Gupta, *Entomologists' mon. Mag.*, 112 : 57.
(Holotype ♀, India : West Bengal, Midnapur, Jhargram, on *Shorea robusta*, in ZSI).
1986. *A. (A.) shoreae*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 65.

Diagnosis : Dorsal shield 335 long, 205 wide, with 17 pairs of setae. Measurements of setae : j_1 -27, j_3 -50, s_4 -60, Z_5 -98, Z_4 -60, other setae minute. Sternal shield as long as broad. Ventrianal shield 100 long, 84 wide, with 3 pairs of preanal setae and a pair of preanal pores. Macrosetae on leg IV : genu-54, tibia-44, basitarsus-37.

Male : Unknown.

Distribution : India (West Bengal).

In addition to the above species of *Amblyseius (Amblyseius)* the following species are also known from the Oriental region but those could not be included in the key either for want of adequate information or due to the late availability of information i.e. when the entire manuscript including the key was finalised and the manuscript was sent to the press.

16. *Amblyseius (Amblyseius) bajulus* Chaudhri, Akbar & Rasool

1979. *Amblyseius bajulus* Chaudhri, Akbar & Rasool, Rept. Pl 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 70.
(Holotype ♀, Pakistan : Kalan (swat), on undet. plant, in UAF ; Paratype 1 ♀, Abbotabad, on *Carduus mutanus*).

Diagnosis : Dorsal shield 374 long, 302 wide, notched near R_1 . Measurements of setae : j_1 -23, s_4 -88, Z_5 -260, Z_4 -143, r_3 -10, R_1 -8 ; other setae minute. Macrosetae on leg IV : genu-114, tibia-94, basitarsus-70 ; other macrosetae : genu I-36, genu II-38, genu III-57, tibia III-42.

Male : Unknown.

Distribution : Pakistan.

17. *Amblyseius (Amblyseius) brevicervix* Wei-nan & Zhao-Quan

1985. *Amblyseius (Amblyseius) brevicervix* Wei-nan & Zhao-Quan, *Acta Zootaxonomica Sinica*, 10(3) : 269-270.

(Holotype ♀, Paratypes 3 ♀ ♀, South China : Mt. Emei, Sichuan Province, on *Tanacetum vulgare*).

Diagnosis : Dorsal shield 395-412 long, 320-325 wide. Measurements of setae : j_1 -26, j_4 -6, j_5 -6, j_6 -7-8, J_2 -8, J_5 -7, j_3 -47, z_2 -10, z_4 -7, s_4 -73-77, Z_1 -7-10, S_2 -7-8, S_4 -7, S_5 -7, Z_5 -135-137, z_5 -7, Z_4 -95-100, r_3 -15, R_1 -10, JV_5 -42-50.

Male : Unknown.

Distribution : South China.

18. *Amblyseius (Amblyseius) deductus* Chaudhri, Akbar & Rasool

1979. *Amblyseius deductus* Chaudhri, Akbar & Rasool, Rept. Pl. 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 72.

(Holotype ♀, Pakistan : Charrapani, on *Peristrophe*, in UAF).

Diagnosis : Dorsal shield 354 long, 270 wide. Measurements of setae : j_1 -26, j_3 -34, s_4 -86, Z_5 -270, Z_4 -138. Ventrianal shield 99 long, 103 wide. Macrosetae on leg IV : genu-120, tibia-62, basitarsus-68, other macrosetae : genu I-36, genu II-29, genu III-55, tibia III-42.

Male : Unknown.

Distribution : Pakistan.

19. *Amblyseius (Amblyseius) excelsus* Chaudhri, Akbar & Rosool

1979. *Amblyseius excelsus* Chaudhri, Akbar & Rasool, Rept. Pl 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 68.

(Holotype ♀, Pakistan : Abbotabad, on *Ricinus communis*, in UAF).

Diagnosis : Dorsal shield 343 long, 239 wide, notched at the level of R_1 . Measurements of setae : j_1 -31, j_3 -49, z_2 -18, z_4 -21, s_4 -81, Z_1 -10, S_2 , S_4 -10 each, Z_5 -174, Z_4 -96, r_3 -21, R_1 -10. Ventrianal shield pentagonal. Macrosetae on leg IV : genu-75, tibia-63, basitarsus-75 ; other macrosetae : genu I-29, genu II-29, genu III-36. Spermatheca sacular.

Male : Uuknown.

Distribution : Pakistan.

20. *Amblyseius (Amblyseius) hainanensis* Wei-nan & Xing

1983. *Amblyseius (Amblyseius) hainanensis* Wei-nan & Xing *Entomotaxonomia*, 5(3) : 264-265.

(Holotype ♀, Paratypes 4 ♀ ♀, South China : Guangdong, Hainan, on citrus).

Diagnosis : Dorsal shield 320 long, 212 wide. Measurements of setae : j_1 -25-27, j_3 -50-52, s_4 -75-82, Z_5 -200-237, Z_4 -100-107, JV_5 -67-80.

Male : Unknown.

Distribution : South China.

21. *Amblyseius (Amblyseius) hapoliensis* Gupta

1986. *Amblyseius (Amblyseius) hapoliensis* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 43-45.

(Holotype ♀, Paratypes 3 ♀ ♀, India : Arunachal Pradesh, Hapoli, on apple, in ZSI).

Diagnosis : Dorsal shield 342 long, 268 wide with 17 pairs of setae. Measurements of setae : j_1 -34, j_4 -43, s_4 -44, Z_5 -112, Z_4 -60, r_3 -16, R_1 -14. Macrosetae on leg IV : genu-80, tibia-62, basitarsus-63.

Male : Unknown.

Distribution : India : Arunachal Pradesh.

22. *Amblyseius (Amblyseius) indirae* Gupta

1985. *Amblyseius (Amblyseius) indirae* Gupta, *Entomon*, 10(3) : 209-211.

(Holotype ♀, Paratypes 2 ♀ ♀, 1 ♂, India : Karnataka, Chikmagalur, Mudigere, on undet. plant, in ZSI).

Diagnosis : Dorsal shield 358 long, 224 wide, with 17 pairs of setae. Measurements of setae : j_1 -33, j_4 - j_6 , J_2 - J_5 , extremely small, j_3 -36, z_2 , z_4 -6 each, s_4 -105, Z_5 -235, Z_4 -100, r_3 , R_1 -10 each. Ventrianal shield 100 long, 67 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-117, tibia-94, basitarsus-71.

Male : Gupta (1986) described male.

Distribution : India : Karnataka.

23. *Amblyseius (Amblyseius) maai* Tseng

1976. *Amblyseius (Amblyseius) maai* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Remarks : Neither the material nor the original literature was

available to the author and, hence, it was not possible to provide diagnosis, type data, etc., for this species.

Distribution : Taiwan.

24. *Amblyseius (Amblyseius) monomacroseta* Tseng

1976. *Amblyseius (Amblyseius) monomacroseta* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Remarks : Same as for species No. 23.

Distribution : Taiwan.

25. *Amblyseius (Amblyseius) obtuserellus* Wainstein & Beglyarov

1971. *Amblyseius obtuserellus* Wainstein & Beglyarov, *Zool. Zh.*, 50 : 1806.

(Holotype ♀ (?), USSR : Primorsky Territory).

1984. *Amblyseius obtuserellus*, Wei-nan, *Acarology*, 6(1) : 222.

Diagnosis : Measurements of setae : j_3 -40, s_4 -60, Z_5 -175, Z_4 -85, j_1 -20, JV_5 -42. Macrosetae on leg IV : genu-55, tibia-20, basitarsus-40.

Male : Sparmatophoral process T-shaped.

Distribution : South China, USSR, Japan.

26. *Amblyseius (Amblyseius) pubes* Tseng

1976. *Amblyseius (Amblyseius) pubes* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Remarks : Same as for species No. 23.

Distribution : Taiwan.

27. *Amblyseius (Amblyseius) spenceus* Tseng

1976. *Amblyseius (Amblyseius) spenceus* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Remarks : Same as for species No. 23.

Distribution : Taiwan.

28. *Amblyseius (Amblyseius) tamtavensis* Blommers

1974. *Amblyseius (Amblyseius) tamtavensis* Blommers, *Bull. zool. Mus. Univ. Amsterdam*, 3(19) : 144-145.

(Holotype ♀, Paratypes 2 ♀ ♀, Madagascar : Tamtave, on *Citrus hystrix*, in Institute of Taxonomic Zoology, (Zool. Mus), Univ. Amsterdam).

1982. *Amblyseius tamtavensis*, Oomen, In Veenonan & Zonen, Wagenengen, p. 89.

Diagnosis : Dorsal shield 340 long, 250 wide, with 17 pairs of setae. Measurements of setae : j_1 -32, j_3 -54, j_4 -4, j_5 -3, j_6 -3, J_2 -5, J_5 -6, z_4 -6,

z_5 -3, Z_1 -3, Z_4 -115, Z_5 -250, s_4 -85, S_2 -5, S_4 -6, S_5 -6. Macrosetae on leg IV : genu-120, tibia-75, basitarsus-73.

Male : Unknown (?)

Distribution : Madagascar, Indonesia.

29. *Amblyseius (Amblyseius) theae* Wei-nan & Xing

1983. *Amblyseius (Amblyseius) theae* Wei-nan & Xing, *Entomotaxonomia*, 5(3) : 263-264.

(Holotype ♀, Paratype 1♂, South China : Jianxi Jiulian Shan Mountain, on *Thea sinensis*).

Diagnosis : Dorsal shield 335 long, 205 wide. Measurements of setae : j_1 -22, z_5 -5, j_3 -27, j_4 , j_6 , J_2 , J_5 -5 each, s_4 -62, S_2 -11, S_5 -6, z_2 , z_4 -13 each, Z_1 -8, Z_5 -96, Z_4 -85-87.

Male : Unknown.

Distribution : South China.

30. *Amblyseius (Amblyseius ?) vestificus* Tseng

1976. *Amblyseius (Amblyseius) vestificus* Tseng, *J. Agr. Ass. China*, 94 : 84-128.

Remarks : Same as for species No. 23.

Subgenus *Asperoseius* Chant

Key to the species of *Amblyseius (Asperoseius)*

- | | | | |
|---|-----|-----|-----------------|
| 1. Macrosetae on genu and tibia IV equal, all macrosetae subcapitate | ... | ... | <i>heveae</i> |
| — Macrosetae on genu IV longer than that on tibia IV ; macrosetae knobbed | ... | ... | <i>nucifera</i> |

31. *Amblyseius (Asperoseius) heveae* (Oudemans)

1930. *Typhlodromus heveae* Oudemans, *Ent. Ber.*, 8 : 97.

(Holotype ♀, Indonesia : Sumatra, on *Hevea* sp., in Rijksmus. Van. Nat. Hist.).

1977. *Amblyseius (Asperoseius) heveae*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 76-78. (Thailand : on *Solanum ferox*)—Redescribed.

1986. *A. (A.) heveae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 67.

Diagnosis : Dorsal shield incised lateral to s_4 , smooth, with 16 pairs of setae. j_1 , j_3 , z_2 , z_4 , s_4 , S_2 , Z_5 , Z_4 long, finely serrate. Setae r_3 and R_1 serrate and on interscutal membrane. Measurements of

setae : j_1 -38, j_4 -7, j_5 -7, j_6 -14, J_5 -4, r_3 -59, R_1 .32, j_3 -73, z_2 -20, z_4 -37, s_4 -97, Z_1 -11, S_2 -44, Z_5 -71, z_5 -8, Z_4 -60. Ventrianal shield much longer than wide, lateral margins concave with 3 pairs of preanal setae and a pair of pores. Fixed digit of chelicera multidentate, movable digit 3-dentate. Macrosetae on leg IV : genu-52, tibia-50, basitarsus-76, distitarsus-50.

Male : Unknown.

Distribution : Indonesia, Thailand.

32. *Amblyseius (Asperoseius) nucifera* (Gupta)

1979. *Paraphytoseius (Tropicoseius) nucifera* Gupta, *Bull. zool. Surv. India*, 2 (1) : 80-81.

(Holotype ♀, India : Kerala, on *Cocos nucifera*, in ZSI).

1981. *Amblyseius (Asperoseius) nucifera*, Gupta & Ray, *ibid*, 4 (1) : 46.

1986. *A. (A.) nucifera*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 71.

Diagnosis : Body elongated oval. Dorsal shield 305 long, 165 wide, notched at the level of s_4 . Measurements of setae : j_1 -28, j_4 - j_6 4 each, j_3 -68, z_2 -16, z_4 -32, s_4 -80, Z_1 -4, S_2 -40, Z_5 -76, z_5 -5, Z_4 -68, r_3 -56, R_1 -28. Ventrianal shield 80 long, 60 wide, lateral margins concave, with 3 pairs of preanal setae. Fixed digit of chelicera multidentate. Spermatheca with bell-shaped cervix.

Male : Unknown.

Distribution : India (Kerala).

In addition to the above, the undermentioned species of this subgenus are also known from the Oriental region but could not be included in the key because of the reasons as mentioned for *A. (A.)* spp.

33. *Amblyseius (Asperoseius) hevearum* (Oudemans)

1930. *Typhlodromus hevearum* Oudemans, *Ent. Ber.*, 8 : 97-98.

(Holotype ♂, Sumatra, on ?)

Diagnosis : z_4 shorter than z_2 ; R_1 minute ; lateral setae serrate.

Female : Unknown.

Distribution : Indonesia.

34. *Amblyseius (Asperoseius) hyauliangensis* Gupta

Amblyseius (Asperoseius) hyauliangensis Gupta, *Oriental Ins.*, (In press).

(Holotype ♀, Paratype 1 ♀, India : Arunachal Pradesh, Hyauliang. on an undet. plant, in ZSI).

Diagnosis : Dorsal shield 336 long, 150 wide, with 15 pairs of setae and 6 pairs of fairly large pores. Measurements of setae : j_1 -36, j_4 - j_5 -minute, j_6 -16, J_5 -minute, j_3 -84-88, z_2 -24, z_4 -40, s_1 -133, Z_1 -13, S_2 -80, S_5 -30, Z_5 -105, z_5 -minute, Z_4 -100, r_3 -56, R_1 -33, JV_5 -62. Ventrianal shield 100 long, 56 wide, lateral margins straight, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-26, tibia-49, basitarsus-89, all being knobbed.

Male : Unknown.

Distribution : India : Arunachal Pradesh.

Subgenus *Euseius* Wainstein

Key to the species of *Euseius*

1. Ventrianal shield with 2 pairs of setae	...	...	<i>irregularis</i>
— Ventrianal shield with 3 pairs of setae	...	...	2
2. Ventrianal shield wider than long	...	...	<i>notatus</i>
— Ventrianal shield longer than wide	...	...	3
3. All setae minute excepting Z_5 and j_1	...	...	4
— Besides Z_5 and j_1 , some other setae also long	...	...	6
4. S_4 longer than S_2 and S_5 and the latter two being equal	...	...	<i>rhododendronis</i>
— S_4 to S_5 of same length	...	...	<i>ovulis</i>
— S_4 and S_5 longer than S_2	...	...	5
5. Duct of spermatheca long, tubular	...	...	<i>sacchari</i>
— Spermatheca duct short, cervix funnel-shaped	...	...	<i>aizawai</i>
6. Dorsal shield smooth	...	...	7
— Dorsal shield reticulate	...	...	9
7. j_1 longer than j_2	...	...	<i>neococcineae</i>
— j_1 shorter than j_2	...	...	8
8. S_2 noticeably longer than Z_1	...	...	<i>alstoniae</i>
— S_2 only slightly longer than Z_1	...	...	<i>delhiensis</i>
9. Z_5 gently serrate	...	...	<i>pruni</i>
— Z_5 smooth	...	...	10
10. z_2 and z_4 almost of same length	...	...	11
— z_2 noticeably shorter than z_4	...	...	<i>coccineae</i>
11. Metapodal plate hook-shaped	...	...	12
— Metapodal plate not as above	...	...	13
12. Z_4 much shorter than S_4	...	...	<i>nicholsi</i>
— Z_4 longer than S_4	...	...	<i>okumae</i>
13. Spermatheca sacular	...	...	<i>finlandicus</i>
— Spermatheca not sacular	...	...	14
14. Macrosetae on leg IV acuminate	...	...	<i>eucalypti</i>
— Macrosetae with broadened tip	...	...	15
15. S_5 smaller than S_4	...	...	<i>bambusae</i>
— S_5 longer than S_4	...	...	<i>coccosocius</i>

35. *Amblyseius (Euseius) aizawai* Ehara

1977. *Amblyseius (Amblyseius) aizawai* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 59-61.
(Holotype ♀, Paratypes 5 ♀ ♀, 1 ♂, Thailand : on papaya, in *Biol. Inst. Fac. Ed. Tott. Univ.*).

Diagnosis : Dorsal shield reticulate along lateral margins, with 17 pairs of setae ; Z_5 short, gently serrate. Measurements of setae : j_1 -31, j_4 -7, j_5 -8, j_6 -9, J_2 -10, J_5 -5, r_3 -13, R_1 -12, j_3 -24, z_2 -14, z_4 -13, s_4 -21, Z_1 -10, S_2 -13, S_4 -15, S_5 -15, Z_5 -53. Ventrianal shield oval, widest at anal region with 3 pairs of preanal setae and a pair of conspicuous pores. Fixed digit of chelicera with 1 subapical tooth and 5 adjacent teeth ; movable digit with a single tooth. Macrosetae on leg IV : genu-49, tibia-38, basitarsus-65.

Male : Chaetotaxy of dorsal shield in male similar as in female.

Distribution : Thailand.

36. *Amblyseius (Euseius) alstoniae* Gupta

1975. *Amblyseius alstoniae* Gupta, *Internat. J. Acarol.*, 1 (2) : 31-32.
(Holotype ♀, Paratypes 1 ♀, 1 ♂, India : West Bengal, Howrah Botanical Garden, on *Alstonia scholaris* ; 2 ♀ ♀, Hooghly, undet. plant ; all in ZSI).
1971. *A. alstoniae*, Gupta, *Indian J. Acar.*, 1 : 29. (Rajasthan : undet. plant ; Gujarat : sapota, chille, cotton, *Acacia*, date plam, *Nerium indicum*, cucurbits, pomegranate. *Tabernaemontana coronaria*, palm ; Punjab : cotton, maize, pear, sugarcane, *Dalbergia sissoo*).
1978. *A. alstoniae*, Gupta, *Indian J. Acar.*, 2(2) : 61. (Bihar : undet. plant ; Orissa : *Butea monosperma*, mango).
1978. *Euseius alstoniae*, Gupta, *Oriental Ins.*, 12(3) : 327 (Tamil Nadu : *Zinia* sp.).
1986. *A. (E) alstoniae*, Gupta, *Fauna of India (Acari Mesostigmata) Family Phytoseiidae*, p. 74.

Diagnosis : Dorsal shield smooth with 17 pairs of setae and 6 pairs of pores. Measurements of setae : j_1 -27, J_4 , j_5 -13, each j_6 , j_2 -26 each, J_5 -6, j_3 -31, z_2 -27, z_4 -36, s_4 -56, Z_1 -19, S_2 -27, S_4 -18, S_5 -27, Z_5 -56 (weakly serrate), z_5 -12, Z_4 -28. Ventrianal shield vase-shaped, longer than wide, constricted at preanal region, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-49, tibia-36, basitarsus-70. Spermatheca with elongate cervix and rounded vesicle.

Male : Dorsal chaetotaxy similar as in female.

Distribution : India (Rajasthan, Gujarat, West Bengal, Bihar, Orissa, Tamil Nadu, Punjab).

Remarks : Its importance in biological control was mentioned by Gupta (1977) and Dhooria (1980).

37. *Amblyseius (Euseius) bambusae* Ghai & Menon

1967. *Amblyseius bambusae* Ghai & Menon, *Oriental Ins.*, 1 : 66-67.
(Holotype ♀, Paratypes 1♂ and 5 others (sex not specified), India : Bangalore, bamboo, infested with eriophyids, deposited in NPC).
1975. *A. bambusae*, Gupta, *Internat. J. Acarol.*, 1(2) : 33.
1978. *Euseius bambusae*, Gupta, *Oriental Ins.*, 12(3) : 327-328. (Tamil Nadu : *Pyrus communis*, *Butea monosperma*, *Dalbergia* sp., *Ficus religiosa*, *Coffea arabica*, pear ; Kerala : undet. plant ; Karnataka : undet. plant ; Andhra Pradesh : undet. plant).
1986. *A. (E.) bambusae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 76.

Diagnosis : Dorsal shield reticulate with 17 pairs of setae, measurements of setae : j_1 -32, j_4 , j_5 4-6 each, j_6 , j_2 -11 each, J_5 -4, j_3 -24, z_2 , z_4 -20 each, s_4 -28, Z_1 -12, S_2 -16, S_4 -20, S_5 -17, Z_5 -50, z_5 -4, Z_4 -12. Sternal, metasternal and genital shields normal. Ventrianal shield vase-shaped with 3 pairs of preanal setae and a pair of pores ; fixed digit of chelicera with 4 teeth ; movable digit with one tooth, spermatheca with elongate cervix. Macrosetae on leg IV : genu-52, tibia-45 ; basitarsus-62, all with pointed teeth.

Male : Gupta (1978) figured its spermatophoral process.

Distribution : India (Karnataka, Tamil Nadu, Kerala, Andhra Pradesh).

38. *Amblyseius (Euseius) coccineae* Gupta

1975. *Amblyseius coccineae*, Gupta, *Internat J. Acarol.*, 1(2) : 33.
(Holotype ♀, Paratypes 3 ♀♀, India : West Bengal, Darjeeling Dist., on *Coccinea indica*, in ZSI ; 2 ♀♀, Kalimpong, citrus, all in ZSI).
1977. *Amblyseius coccineae*, Gupta, *Indian J. Acar.*, 1 : 30. (Gujarat : Mango, castor).
1978. *Amblyseius coccineae*, Gupta, *Indian J. Acar.*, 2(2) : 61.
(Orissa : jackfruit, cashewnut, bamboo, *Terminalia arjuna*, *Eugenia* sp ; Meghalaya : arum).
1978. *Euseius coccineae*, Gupta, *Oriental Ins.*, 12 : 329.
(Pondicherry : undet. plant ; Tamil Nadu : marigold, *Tabernaemontana coronaria* ; Andhra Pradesh : on cashewnut).
1986. *A. (E.) coccineae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 78.

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae. Measurements of setae : j_1 -25, j_4 , j_5 , J_2 , z_5 -10-12 each ; J_5 -6, j_3 -27, z_2 , z_4 -19-20 each, s_4 -32, Z_1 -11, S_2 , S_4 , S_5 -21 each, Z_5 -58, Z_4 -13. Ventrianal shield vase-shaped, with 3 pairs of preanal setae. Chelicera with 2 teeth on fixed digit and none on movable digit. Leg IV with macrosetae on genu-47, tibia-37, basitarsus-55 ; all with flattened tip.

Male : Gupta (1977) figured its spermatophoral process.

Distribution : India (West Bengal, Gujarat, Orissa, Meghalaya, Pondicherry, Tamil Nadu, Andhra Pradesh).

39. *Amblyseius (Euseius) cocosocius* Ghai & Menon,

1967. *Amblyseius cocosocius* Ghai & Menon, *Oriental Ins.*, 1 : 67-68.
(Holotype ♀, Paratypes 8 ♀♀, Bangalore, on mango, infested with scale insects, in NPC).
1970. *A. cocosocius*, Gupta, *Sci. & Cult.*, 36 : 98.
(West Bengal : *Alstonia scholaris*).
1975. *Amblyseius cocosocius*, Gupta, *Internat. J. Acarol.*, 1 (2) : 33-34.
(West Bengal : on *Alstonia scholaris*, *Clerodendron macrosiphon*).
1977. *A. cocosocius*, Gupta, *Indian J. Acar.*, 1 : 29-30 (Punjab : guava).
1978. *Euseius cocosocius*, Gupta, *Oriental Ins.*, 12 : 329.
(Pondicherry : undet. plant ; Tamil Nadu : papaya ; Kerala : undet. plant ; Andhra Pradesh : mango).
1986. *A. (E.) cocosocius*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 80.

Diagnosis : Dorsal shield reticulate with 17 pairs of setae. Measurements of setae : j_1 .28, j_4 - j_5 , J_2 10-12 each, j_3 -21, z_2 -16, z_4 -16, s_4 -26, Z_1 -9, S_2 -16, S_4 -25, S_5 -29, Z_5 -57, z_5 -8, Z_4 -16. Sternal shield as long as broad. Ventrianal shield vase-shaped, slightly broadest at preanal region, with 3 pairs of preanal setae and a pair of semilunar pores. Macrosetae on leg IV : genu-36, tibia-32, basitarsus-45.

Male : Gupta (1977) figured its spermatophoral process.

Distribution : India (Karnataka, West Bengal, Punjab, Pondicherry, Tamil Nadu, Kerala, Andhra Pradesh).

40. *Amblyseius (Euseius) delhiensis* (Narayanan & Kaur)

1960. *Typhlodromus (Amblyseius) delhiensis* Narayanan & Kaur, *Proc. Indian Acad. Sci.*, 51B : 5-7.
(Holotype ♀, (?) described from 10 ♀♀, 5 ♂♂, New Delhi, on *Hibiscus esculentus* and *Gossypium* sp., infested with tetranychid mites, in NPC).
1970. *Amblyseius delhiensis*, Gupta, *Sci. & Cult.*, 36 : 98 (West Bengal : *Syzygium javanica*).
1971. *A. delhiensis*, Gupta, Sandhu, Dhooria & Singh, *Sci. & Cult.*, 37 : 298.
(Punjab : maize, feeding on *O. indicus*).
1971. *A. delhiensis*, Gupta, Dhooria & Sidhu, *Sci. & Cult.*, 37 : 484.
(Punjab : citrus, feeding on *E. orientalis*).
1972. *A. delhiensis*, Gupta & Dhooria, *Curr. Sci.*, 41 : 824-825.
(Punjab : grape vines).
1973. *A. delhiensis*, Sandhu, Kaushal & Gupta, *Sci. & Cult.*, 39 : 226-227.
(Punjab : maize, feeding on phytophagous mites).

1975. *A. delhiensis*, Gupta, *Internat. J. Acarol.*, 1(2) : 36.
(West Bengal : *Hibiscus rosa—sinensis*, litchi, feeding on *Oligonychus* sp. and *Tetranychus* sp.).
1977. *Amblyseius delhiensis*, Gupta, *Indian J. Acar.*, 1 : 30. (Punjab : grapevines).
1978. *A. delhiensis*, Gupta, *Indian J. Acar.*, 2(2) : 62 (Orissa : guava).
1986. *A. (E.) delhiensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 82.

Diagnosis : Dorsal shield smooth with 17 pairs of setae. $Z_5 = s_4$, j_6 , J_2 , Z_1 , S_4 , S_5 and Z_4 all of same length, Z_5 slightly serrate ; $z_4 > z_2$, $Z_1 = S_2$. Ventrianal shield vase-shaped, $1\frac{1}{2}$ times as long as broad with 3 pairs of preanal setae. Leg IV with macrosetae on genu, tibia, basitarsus, that on tibia being smaller.

Male : Narayanan & Kaur (1960) described male.

Distribution : India (New Delhi, West Bengal, Punjab, Orissa).

Remarks : Its predatory importance was reported by Gupta *et al.* (1971), Gupta & Dhooria (1972) and Somchoudhury (1979, 1981.).

41. *Amblyseius (Euseius) eucalypti* Ghai & Menon

1967. *Amblyseius eucalypti* Ghai & Menon, *Oriental Ins.*, 1 : 69-70.
(Holotype ♀, Paratypes 8 ♀ ♀, India : Bangalore, on *Eucalyptus*, in NPC).
1975. *A. eucalypti*, Gupta, *Internat. J. Acarol.*, 1(2) : 36.
1986. *A. (E.) eucalypti*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 84.

Diagnosis : Dorsal shield faintly reticulate, with 17 pairs of setae, $s_4 > j_1 = j_3 = z_2 = z_4$; j_4 , J_5 , z_5 , Z_4 short, $Z_1 = S_2 = S_4$; Z_5 longest. Ventrianal shield longer than broad, with 3 pairs of preanal setae. Macrosetae of leg IV present on genu, tibia and basitarsus.

Male : Unknown.

Distribution : India (Karnataka).

42. *Amblyseius (Euseius) finlandicus* (Oudemans)

1915. *Seiulus finlandicus* Oudemans, *Ent. Ber.*, 4 : 183.
(Holotype ♀, Finland, on *Salix caprea*, in *Rijksmus Van Nat. Hist. Leiden*).
1958. *Amblyseius finlandicus*, Athias-Henriot, *Bull. Soc. Hist. nat. Afr. N.*, 49 : 34-36.
1953. *Typhlodromus finlandicus*, Evans, *Ann. Mag. nat. Hist.*, (12)6 : 449-462.
1967. *Amblyseius finlandicus*, Ghai & Menon, *Oriental Ins.*, 1 : 70.
(Bangalore : hedge plant).
1970. *A. hibisci*, Gupta, *Sci. & Cult.*, 36 : 98.
(West Bengal : arum)—Misidentification.
1971. *A. finlandicus*, Gupta *et al.*, *Sci. & Cult.*, 37 : 298.
(Punjab : Pear, feeding on *E. orientalis*).

1971. *A. hibisci*, Gupta *et al.*, *Sci. & Cult.*, 37 : 298.
(Punjab : cotton)—Misidentification.
1974. *A. hibisci*, Dhooria & Sidhu, *ibid.*, 37 : 474.
(Punjab : feeding on *E. orientalis*).
1973. *A. finlandicus*, Sandhu, Kaushal & Gupta, *Sci. & Cult.*, 39 : 226-227.
(Punjab : on maize feeding on all stages of phytophagous mites).
1974. *A. finlandicus*, Gupta, *Ent. Rec.*, 86 : 143.
1975. *A. finlandicus*, Gupta, *Internat. J. Acarol.*, 1(2) : 36.
(West Bengal : guava, pear).
1977. *A. finlandicus*, Gupta, *Indian J. Acar.*, 1 : 32.
(Punjab : undet. plant).
1986. *A. (E.) finlandicus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 86.

Diagnosis : Dorsal shield reticulate with 17 pairs of setae. Measurements of setae : j_1 -28, j_4 , j_5 -10 each, j_6 , J_2 -12 each, J_5 -6, j_3 -24, z_2 - z_4 -16 each s_4 -28, Z_1 -12, S_2 - S_4 -20 each, S_5 -25, Z_5 -56, z_5 -10, Z_4 -16. Ventrianal shield vase-shaped, with 3 pairs of preanal setae ; leg IV with macrosetae on genu-40, tibia-24, basitarsus-48. Fixed digit of chelicera with 2 teeth ; movable digit toothless.

Male : Gupta (1977) figured its spermatophoral process.

Distribution : India (Karnataka, West Bengal, Punjab) ; outside India : Indonesia.

Remarks : Gupta *et al.* (1971) and Sandhu *et al.* (1973) reported the predatory nature of this species.

43. *Amblyseius (Euseius) irregularis* (Evans)

1953. *Typhlodromus irregularis* Evans, *Ann. Mag. nat. Hist.*, (12) 6 : 463-466.
(Holotype ♀, Paratypes 2 ♀ ♀, Malaya, on leaves infested with tetranychids in BM (NH).

Diagnosis : Dorsal shield with 16 pairs of setae ; 8 in lateral rows ; S_4 absent. Ventrianal shield oval, lateral margins concave with 2 pairs of preanal setae and a pair of pores. Leg IV with 3 macrosetae one each on genu, tibia and basitarsus.

Male : ?

Distribution : Malaya.

44. *Amblyseius (Euseius) neococcineae* Gupta

1978. *Amblyseius neococcineae* Gupta, *Indian J. Acar.*, 2 (2) : 69.
(Holotype ♀, Paratypes 4 ♀ ♀, Meghalaya, Tura, on *Syzygium cumini* ; all in ZSI, Calcutta).
1986. *A. (E.) neococcineae* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 90.

Diagnosis : Dorsal shield 265 long, 145 wide, smooth with 17 pairs of setae. Measurements of setae : j_1 -26, j_4 , j_5 -8 each, j_6 , J_2 -12 each, J_5 -5, j_3 , z_2 -12 each, z_4 -16, s_4 -24, Z_1 -12, S_2 -16, S_4 -16, S_5 -18, Z_5 -45, z_5 -12, Z_4 -16. Sternal and genital shields normal ; ventrianal shield with lateral margins concave at preanal region with 3 pairs of preanal setae and a pair of crescent-shaped pores. Macrosetae on leg IV : genu-20, tibia-24, basitarsus-32 ; all with flattened tip.

Distribution : India (Meghalaya).

45. *Amblyseius (Euseius) nicholsi* Ehara & Lee

1971. *Amblyseius (Amblyseius) nicholsi* Ehara & Lee, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 22 : 67.

(Holotype ♀, Hong Kong : Chai Wan, on grass, in Biol. Inst. Fac. Ed. Tott. Univ.)

1977. *Amblyseius (Amblyseius) nicholsi* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 61.

(Thailand : on *Combretum quadrangulare*, Cassava, Leguminous tree).

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae and 6 pairs of pores. Z_5 faintly barbed ; j_1 also stout. Measurements of setae : j_1 -35, j_4 -11, j_5 -11, J_2 -14, J_5 -7, r_3 -15, R_1 -14, j_3 -28, z_2 -18, s_4 -30, Z_1 -14, S_2 -18, S_4 -26, S_5 -26, Z_5 -62. Ventrianal shield nearly oval, widest at anal region, with 3 pairs of preanal setae. Metapodal plates hook-shaped. Macrosetae on leg IV : genu-52, tibia-41, basitarsus-66, all with blunt tip.

Male : Unknown.

Distribution : Hong Kong, Thailand.

46. *Amblyseius (Euseius) notatus* Chaudhri

1969. *Amblyseius notatus* Chaudhri, *Acarologia*, 10 : 555.

(Holotype ♀, Pakistan : 4 miles south of Murree Hills, on *Fragaria vesca*, in UAL).

Diagnosis : Dorsal shield 347 long, 219 wide, reticulate, simple, with 17 pairs of setae. j_1 -34, j_4 -16, j_5 -18. j_6 -21, J_2 -23, j_3 -39, z_2 - z_4 -34 each, s_4 -47, Z_1 , S_2 - S_4 -26 each, S_5 -31, Z_5 -60 (weakly serrate), z_5 -18, Z_4 -26, r_3 -18, R_1 -17. Ventrianal shield oval or round, with 3 pairs of preanal setae. Metapodal plates absent. Spermatheca with narrow tube, atrium bell-shaped. Macrosetae on leg IV : genu-39, tibia-36 and basitarsus-54.

Male : Unknown.

Distribution : Pakistan.

47. *Amblyseius (Euseius) okumae* Ehara & Bhandhufalck

1977. *Amblyseius (Amblyseius) okumae* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 61-62.
(Holotype ♀, Paratypes 9 ♀ ♀, 1 ♂, Thailand : Doi Chiang Dao, on Tea ; 1 ♀, 1 ♂, same locality, on *Michelia champaca*, in *Biol. Inst. Fac. Ed. Tott. Univ.*).

Diagnosis : Dorsal shield indented near R_1 , reticulate with 6 pairs of pores and 17 pairs of setae, Z_5 stout with minute barbs. Peritreme ends between j_3 and z_2 . Measurements of setae : j_1 -27, j_4 -14, j_5 -15, J_2 -18, J_5 -8, r_3 -16, R_1 -14, j_3 -25, z_2 -21, z_4 -23, s_4 -31, Z_1 -18, S_2 -22, S_4 -22, S_5 -27, Z_5 -53, z_5 -15, Z_4 -21. Ventrianal shield oval, widest at anal region, with 3 pairs of preanal setae. Fixed digit of chelicera with a few teeth distally, movable digit with 1 tooth. Macrosetae on leg IV ; genu-33, tibia-28, basitarsus-47, all with blunt tip.

Male : Measurements of setae smaller than those of females. Spermatophoral process was figured by Ehara & Bhandhufalck (1977).

Distribution : Thailand.

48. *Amblyseius (Euseius) ovalis* (Evans)

1953. *Typhlodromus ovalis* Evans, *Ann. Mag. nat. Hist.*, 6 : 458-466.
(Holotype ♀, Malaya : Kuala Lumpur, on rubber, in BM (NH)).
1960. *Typhlodromus (Amblyseius) ovalis*, Narayanan, Kaur & Ghai, *Proc. natn. Inst. Sci. India*, 26(B)(6) : 388-389.
(Bombay : *Ficus* sp., *Terminalia arjuna*, both infested with tetranychid mites, banana, Karnataka : undet. plant).
1966. *A. ovalis*, Corpuz & Rimando, *Philipp. Agric.*, 50 : 122-124.
(Philippines : *Averrhoa carambola*, *Breynia*, *rhamnoides*, *Gliricidia sepium*, *Pandanus* sp., *Allamanda hendersonii*, *Swietenia macrophylla*).
1970. *A. ovalis*, Gupta, *Sci. & Cult.*, 36 : 98.
(West Bengal : *Bougainvillea spectabilis*).
1970. *A. (A) ovalis*, Ehara, *Mushi*, 43(6) : 58-59.
(Taiwan : *Spathodea campanulata*).
1974. *A. ovalis*, Gupta, *Ent. Rec.*, 86 : 143.
1975. *A. ovalis*, Gupta, *Internat. J. Acarol.*, 1(2) : 39-40.
(West Bengal : *Vitex pubescens*, *Ficus* sp.).
1976. *A. ovalis*, Lo, *Bull. Sun-Yat. Sen. Cult. Found.*, 5 : 58-60.
(Taiwan : grape, *Brassica* with *Tetranychus* sp. ; pear with *Oligonychus* sp. ; *Bryophyllum calycimum* with *Brevipalpus* sp. ; *Lycium chinense* with eriophyid mites).
1977. *A. ovalis*, Gupta, *Oriental Ins.*, 11 : 632.
(Andaman Nicobar Isls. : *Tabernaemontana*, *Ficus*, mango, banana).
1977. *A. ovalis*, Gupta, *Indian J. Acar.*, 1 : 34 (Gujarat : beans).

1978. *Euseius ovalis*, Gupta, *Oriental Ins.*, 12 : 335-336.
(Tamil Nadu : Napier grass, lucern, banana, castor, *Nerium* sp., mango, coconut, cashewnut, oilseed plant, *Bauhinia* sp., papaya, pomegranate, rose, chrysanthemum, coffee, Pondicherry : *Bauhinia purpuria*, Kerala : paddy, ornamental plant, Karnataka : undet. plant, sugarcane ; Andhra Pradesh : cashewnut).
1978. *A. ovalis*, Gupta, *Indian J. Acar.*, 2(2) : 71.
(Meghalaya : undet. plant ; Tripura : *Bougainvillea*, banana ; Manipur : grass).
1986. *A. (E.) ovalis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 92.

Diagnosis : Dorsal shield 345 long, 244 wide, with 17 pairs of setae. Measurements of setae : j_1 -31, j_4 - j_6 , J_2 - J_5 6-8 each, j_3 -12, z_2 , z_4 -7 each, s_4 -12, Z_1 , S_2 - S_5 8-10 each, Z_5 -55, z_5 -5, Z_4 -8. Ventrianal shield oval, 102 long, 81 wide, lateral margins convex to make widest at anal level, with 3 pairs of preanal setae and a pair of crescent-shaped pores. Leg IV with macroseta on genu-20, tibia-24, basitarsus-32, all smooth with flattened tip. Spermatheca with bell-shaped cervix.

Male : Gupta (1977) figured its spermatophoral process.

Distribution : Malaya, Philippines, Taiwan, Indonesia ; India (Maharashtra, Karnataka, West Bengal, Andaman & Nicobar Isls., Tamil Nadu, Pondicherry, Kerala, Meghalaya, Tripura, Manipur, Gujarat).

Remarks : Predatory behaviour of this species was reported by Rao *et al.* (1970) and Gupta (1977).

49. *Amblyseius (Euseius) pruni* Gupta

1970. *Amblyseius sojaensis* Ehara, *Sci. & Cult.*, 36 : 98 (West Bengal : *Anthocephalus indicus*)—Misidentification.
1975. *A. sojaensis*, Gupta, *Internat. J. Acarol.*, 1(2) : 43-44.
(West Bengal : *Bignonia mangifera*, *Mangifera indica*) — Misidentification.
1975. *Amblyseius pruni* Gupta, *Internat. J. Acarol.*, 1(2) : 40-42.
(Holotype ♀, Paratypes 2♀♀, 1♂ India : West Bengal, Kalimpong, *Prunus persica*, in ZSI,).
1978. *A. pruni*, Gupta, *Indian J. Acar.*, 2(2) : 73.
(Meghalaya : pear ; Assam : undet. plant ; Tripura : *Bauhinia acuminata*).
1986. *A. (E.) pruni*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 94.

Diagnosis : Dorsal shield 315 long, 230 wide, reticulate, with 17 pairs of setae and 4 pairs of pores. Measurements of setae : j_1 -31, j_4 - j_5 8 each, j_6 - J_2 13-14 each, J_5 -5, j_3 -27, z_2 - z_4 19 each, s_4 -33, Z_1 -13, S_2 -18, S_4 -18, S_5 -22, Z_5 -58, z_5 -12, Z_4 -13. Sternal, metasternal and genital shields normal. Ventrianal shield vase-shaped, slightly longer

than wide, with 3 pairs of preanal setae and a pair of crescent-shaped pores. Macrosetae on leg IV : genu-40, tibia-36, basitarsus-58.

Distribution : India (West Bengal, Meghalaya, Assam, Tripura).

50. *Amblyseius (Euseius) rhododendronis* Gupta

1970. *Amblyseius (Euseius) rhododendronis* Gupta, *Oriental Ins.*, 4 : 187-188.
(Holotype ♀, Paratypes 2 ♀ ♀, India : West Bengal, Darjeeling, on *Rhododendron* sp. ; another ♀, Lataguri, on undet. plant ; 1 ♀, Sevak, on *Shorea robusta*, all in ZSI).
1975. *A. rhododendronis*, Gupta, *Internat. J. Acarol.*, 1(2) : 43.
1978. *Euseius kodaikanalensis* Gupta, *Oriental Ins.*, 12 : 331-333
(Tamil Nadu : Pear).
1986. *A. (E.) rhododendronis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 96.

Diagnosis : Dorsal shield 315 long, 220 wide with 17 pairs of setae and 5 pairs of pores. Measurements of setae : j_1 -27, j_4 - j_6 , J_2 8-9 each, J_5 -4, j_3 -16, z_2 - z_4 10-11 each, s_4 -20, Z_1 -8, S_2 -11, S_4 -17, S_5 -9, Z_5 -54, z_5 -5, Z_4 -9. Sternal, matasternal and genital shields normal. Ventrianal shield 94 long, 72 wide, with 3 pairs of preanal setae and a pair of preanal pores. Spermatheca filamentous. Macrosetae on leg IV : genu-31, tibia-22, basitarsus-42, all with broadened tip.

Male : Unknown.

Distribution : India (West Bengal).

Remarks : *A. (E.) kodaikanalensis* Gupta is a synonym for *A. (E.) rhododendronis* Gupta.

51. *Amblyseius (Euseius) sacchari* Ghai & Menon

1967. *Amblyseius sacchari* Ghai & Menon, *Oriental Ins.*, 1 : 75-76.
(Holotype ♂, Paratypes ♀ and 7 others (sex not specified), India : Bangalore, sugarcane, infested with eriophyids, in NPC.).
1970. *A. sacchari*, *Sci & Cult.*, 36. 98 (West Bengal : sugarcane).
1974. *A. sacchari*, Gupta & Dhooria, *Abstr. Indian Sci. Congr.*, 1974 : 69.
(Punjab & Himachal Pradesh).
1975. *A. sacchari*, Gupta, *Internat J. Acarol.*, 1(2) : 43.
(West Bengal : sugarcane).
1977. *A. sacchari*, Gupta, *Indian J. Acar.*, 1 : 33-34.
(Redescribed) (Gujarat : sugarcane).
1978. *Euseius sacchari*, Gupta, *Oriental Ins.*, 12 : 337.
(Tamil Nadu : Sugarcane).
1986. *A. (E.) sacchari*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 98.

Diagnosis : Dorsal shield 337 long, 211 wide, with 17 pairs of setae and a few pairs of pores. Measurements of setae : j_1 -27, j_4 - j_6 . J_2 - J_5 6-10 each, j_3 -12, z_2 , z_4 , Z_1 , S_2 - S_5 6-10 each, S_4 -17, Z_5 -42 (serrate), z_5 -5, Z_4 -9. Ventrianal shield elongate, 114 long, 72 wide, with 3 pairs of preanal setae and a pair of preanal pores. Macrosetae on leg IV : genu-36, tibia-40, basitarsus-60.

Male : Gupta (1977) figured spermatophoral process.

Distribution : India (Karnataka, West Bengal, Punjab, Himachal Pradesh, Gujarat, Tamil Nadu).

Besides the above species, the following are also known from the Oriental region but could not be included in key for the reasons as mentioned for A. (A.) spp.

52. *Amblyseius (Euseius) alangii* Lai-rong & Li-sheng

1981. *Amblyseius alangii* Lai-rong & Li-sheng, *Fudan J. (Nat. Sci.)*, 20(2) : 222.

(Holotype ♀, Paratype 1 ♀, South China : Jiangsu, Yixing, on *Alangium chinense*).

Diagnosis : Dorsal shield 330 long, 206 wide. Measurements of setae : j_1 -33, j_4 -13, j_5 -13, j_6 -17, J_2 -15, J_5 -4, j_3 -26, z_2 -17, z_4 -15, s_4 -33, Z_1 -15, S_2 -22, S_4 -19, S_5 -28, Z_5 -59, r_3 -17, R_1 -13, z_5 -13, Z_4 -19, JV_5 -44.

Male : Unknown.

Distribution : South China.

53. *Amblyseius (Euseius) densus* Wei-nan

1984. *Amblyseius (Amblyseius) densus* Wei-nan, *Acta. Zootaxonomica Sinica*, 9(2) : 156-157.

(Holotype ♀, Paratypes 10 ♀ ♀, South China : Longchuan & Lanceng Counties, on *Palonia* sp. and *Prunus persica*).

Diagnosis : Dorsal shield 290-310 long, 140-145 wide. Measurements of setae : j_1 -27, j_4 -17, j_5 -20, j_6 -22, J_2 -20, J_5 -5, j_3 -25-28, z_4 -28, z_2 -27, s_4 -30, Z_1 -18, S_2 -22, S_4 -21, S_5 -21, Z_5 -45, z_5 -15, Z_4 -21, r_3 -20, R_1 -13, JV_5 -28-33.

Male : Unknown.

Distribution : South China.

54. *Amblyseius (Euseius) guangxiensis* Wei-nan

1984. *Amblyseius (Amblyseius) guangxiensis* Wei-nan, *Acarology*, 6(1) : 223.

(Holotype ♀, Paratypes 3 ♀ ♀, South China : Gulien, Gnanxi).

Diagnosis : Dorsal shield 350-430 long, 310-340 wide. Measurements of setae : j_1 -32, j_4 -10, j_5 -12, j_6 -13, J_2 -17, J_5 -15, j_3 -32, z_2 -18, z_4 -18, s_4 -35, Z_1 -15, S_2 -22, S_4 -30, S_5 -31, Z_5 -67, z_5 -10, Z_4 -18, r_3 -17, R_1 -15, JV_5 -37.

Male : Unknown.

Distribution : South China.

55. *Amblyseius (Euseius) macrospatulatus* Gupta

1986. *Amblyseius (Euseius) macrospatulatus* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 89-90.

(Holotype ♀, India : Arunachal Pradesh, Likabali, on an undet. plant, in ZSI).

Diagnosis : Dorsal shield 414 long, 291 wide, with 17 pairs of setae. Measurements of setae : j_1 -51, j_4 -7, j_5 -9, j_6 -11, J_2 -15, J_5 -5, j_3 -12, z_2 -12, z_4 -17, s_4 -29, Z_1 -15, S_2 -17, S_4 -17, S_5 -17, Z_5 -68, z_5 -9, Z_4 -16, r_3 , R_1 -12 each. Ventrianal shield 123 long, 100 wide with 3 pairs of preanal setae. Macrosetae on leg IV : genu-47, tibia-45, basitarsus-69, all with spatulate tip.

Male : Unknown.

Distribution : India : Arunachal Pradesh.

56. *Amblyseius (Euseius) mediocris* (Chaudhri, Akbar & Rasool)

1979. *Euseius mediocris* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 60.

(Holotype ♀, Pakistan : Karachi, on *Ricinus communis*, in UAF).

Diagnosis : Dorsal shield 357 long, 224 wide. Measurements of setae : j_1 -31, j_4 -13, j_5 -13, j_6 -23, J_5 -5, j_3 -34, z_2 -29, z_4 -29, s_4 -55, Z_1 -23, S_2 -18, S_4 -18, S_5 -27, Z_5 -60, z_5 -13, Z_4 -26, r_3 -18, R_1 -14. Macrosetae on leg IV : genu-55, tibia-29, basitarsus-70.

Male : Unknown.

Distribution : Pakistan.

57. *Amblyseius (Euseius) ruiliensis* Wei-nan & Zhao-Quan

1985. *Amblyseius (Amblyseius) ruiliensis* Wei-nan & Zhao-Quan *Acta Zootaxonomica Sinica*, 10(3) : 270-271.

(Holotype ♂, Paratypes 6 ♀ ♀, South China, Ruili. County, Yunnan Province, on undet. plant).

Diagnosis : Dorsal shield 250 long, 187 wide. Measurements of setae : j_1 -23-25, j_4 -17-18, j_5 -17, j_6 -17-18, J_2 -17, J_5 -5, j_3 -22-23, z_2 -22-25,

z_4 -26-27, s_4 -35-37, Z_1 -17-20, S_2 -23-25, S_4 -20-22, S_5 -25, Z_5 -45-46, z_5 -20, Z_4 -20-21, r_3 -23-26, R_1 -13-15, JV_5 -27-30.

Male : Unknown.

Distribution : South China.

58. *Amblyseius (Euseius) septicus* (Chaudhri, Akbar & Rasool)

1979. *Euseius septicus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 58.

(Holotype ♀, Pakistan : Galwala forest, Faisalabad, on *Ricinus communis*, in UAF).

Diagnosis : Dorsal shield 306 long, 253 wide. Measurements of setae : j_1 -31, j_4 - j_5 -16 each, j_6 , J_2 -29 each, J_5 -5, j_3 -29, z_2 -29: z_4 -42, s_4 -57, Z_1 -34, S_2 -26, S_4 -34, S_5 -23, Z_5 -57, z_5 -16, Z_4 -29, r_3 -20, R_1 -15. Macrosetae on leg IV : genu-47, tibia-36, basitarsus-70.

Male : Unknown.

Distribution : Pakistan.

59. *Amblyseius (Euseius) womersleyi*

1984. *Amblyseius womersleyi*, Shih, *Acarologia*, 6(1) : 710.

Remarks : Same as for species No. 23.

Distribution : Taiwan,

60. *Amblyseius (Euseius) Yunnanensis* Wei-nan

1984. *Amblyseius (Amblyseius) yunnanensis* Wei-nan, *Acta Zootaxonomica Sinica*, 9(2) : 157-158.

(Holotype ♀, Paratypes 2 ♀ ♀, South China : Yiangjiang County, on *Mangifera indica*).

Diagnosis : Dorsal shield 350 long, 225 wide. Measurements of setae : j_1 -25, j_4 - j_6 , J_5 -6 each, J_2 -7, j_3 -22, z_2 -12, z_4 -6, s_4 -37, Z_1 -8, S_2 -10, S_4 -6, S_5 -6, Z_5 -65, z_5 -7, Z_4 -50, r_3 -15, R_1 -10.

Male : Unknown.

Distribution : South China.

61. *Amblyseius (Euseius) relictus* (Chaudhri, Akbar & Rasool)

1979. *Euseius relictus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 56.

(Holotype ♀, Pakistan : Madyan, on *Canabis sativa*, in UAF).

Diagnosis : Dorsal shield 316 long, 224 wide. Measurements of setae : j_1 -31, j_4 -10, j_5 -13, j_6 -16, J_2 -16, J_5 -8, j_3 -29, z_2 -23, z_4 -26, s_4 -30, Z_1 -21, S_2 -21, S_4 -26, S_5 -13, Z_5 -55, z_5 -13, Z_4 -16, r_3 -16, R_1 -16. Macrosetae on leg IV : genu-43, tibia-34, basitarsus-60.

Male : Unknown.

Distribution : Pakistan.

Subgenus *Neoseiulus* Hughes

Key to the species of Neoseiulus

1. Dorsal shield narrow and elongate	...	2
— Dorsal shield round and oval	...	5
2. Z_1 and S_2 very small (8-10 μ)	... ..	<i>aceriae</i>
— Z_1 and S_2 longer than 8-10 μ	...	3
3. Sternal shield without postlateral angulation	...	<i>baraki</i>
— Sternal shield with postlateral angulation	...	4
4. $j_3 = s_4$	... ..	<i>taiwanicus</i>
— $j_3 < s_4$	... ..	<i>paspalivorus</i>
5. All setae on dorsal shield very small except Z_5	...	6
— Setae on dorsal shield of diverse length	...	8
6. Dorsal shield reticulate	...	7
— Dorsal shield smooth	... ..	<i>assamensis</i>
7. Macrosetae on basitarsus IV longer than that on genu IV	... ..	<i>siamensis</i>
— Macrosetae on genu IV and basitarsus IV equal	...	<i>anuwati</i>
8. Setae on dorsal shield of same length or uniformly long, none greatly longer than others	...	13
— Some setae on dorsal shield appreciably longer, others being small or very small	...	9
9. All setae on dorsal shield except j_1 , J_5 and S_5 being very long	... ..	<i>longispinosus</i>
— Not as above	...	10
10. j_1 longer than j_3	... ..	<i>cynodonae</i>
— j_1 shorter than j_3	...	11
11. No macroseta on tibia IV	... ..	<i>rangatensis</i>
— Macrosetae present on genu, tibia and basitarsus of leg IV	...	12
12. z_4 shorter than z_2	... ..	<i>aequipilus</i>
— z_4 longer than z_2	... ..	<i>fraterculus</i>
13. Setae on dorsal shield very long almost touch bases of next setae	...	14
— Setae on dorsal shield shorter	...	15
14. Setae on dorsal hexagonal area shorter than the interval between their bases	... ..	<i>imbricatus</i>
— Setae on dorsal hexagonal area longer than the interval between their bases	... ..	<i>fallacis</i>

15. Z_5 and Z_4 serrate	...	15
— Z_5 and Z_4 smooth	... ..	<i>indicus</i>
16. Ventrianal shield with sharp inward curve at near anterior lateral side	... ..	<i>venustus</i>
— No such character on ventrianal shield	... ..	17
17. Fixed digit of chelicera with 5 teeth...	...	<i>stolidus</i>
— Fixed digit of chelicera with 4 teeth...	...	<i>calorai</i>

62. *Amblyseius* (*Neoseiulus*) *aceriae* Gupta

1975. *Amblyseius aceriae* Gupta, *Internat. J. Acarol.*, 1 (2) : 30-31.
(Holotype ♀, India : West Bengal, Malda, on *Mangifera indica*, associated with mango bud-mite, in ZSI).
1977. *Amblyseius aceriae*, Gupta, *Indian J. Acar.*, 1(1-2) : 28-29. (Gujarat : *Chrysanthemum* sp.).
1986. *Amblyseius* (*Neoseiulus*) *aceriae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 102-103.

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae, all being small (8-10) except Z_5 which is 49 long, thick and serrate. Sternal shield longer than wide, metasternal plate with seta. Ventrianal shield quadrangular, longer than broad, with 3 pairs of preanal setae. Spermatheca bell-shaped. Macroseta present only on basitarsus IV.

Male : Gupta (1977) figured its spermatophoral process.

Distribution : India (West Bengal, Gujarat).

63. *Amblyseius* (*Neoseiulus*) *aequipilus* Berlese

1914. *Amblyseius aequipilus* Berlese, *Redia* 10 : 145. (Holotype ♀, Java, in Berlese's Collections, Florence).

Diagnosis : Dorsal shield with 17 pairs of setae, setae s_4 , Z_5 , Z_4 moderately long ; Z_1 and S_2 minute, $j_3 = z_2 = 1/2 s_4$. Ventrianal shield oblong, longer than wide with 3 pairs of preanal setae. Leg IV with macrosetae on genu, tibia and basitarsus.

Male : ?

Distribution : Indonesia, British Columbia.

64. *Amblyseius* (*Neoseiulus*) *anuwati* Ehara & Bhandhufalck

1977. *Amblyseius* (*Amblyseius*) *anuwati* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 63-66.
(Holotype ♀, Paratypes 2 ♀ ♀, Thailand : Prew, on coffee, in Biol. Inst. Fac. Ed. Tott. Univ.).

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae and 7 pairs of pores ; Z_5 stout with minute barbs. Peritreme extends beyond j_1 . Measurements of setae : j_1 -12, j_4 -7, j_5 -7, j_6 -8, J_2 -11, J_5 -8, r_3 -10, R_1 -9, j_3 , z_2 - z_4 -11 each, s_4 -13, Z_1 -11, S_2 -11, S_4 -10, S_5 -8, Z_5 -63, z_5 -8, Z_4 -12. Ventrianal shield near pentagonal, slightly longer than wide, with 3 pairs of preanal setae and a pair of conspicuous crescentic pores. Fixed digit of chelicera multidentate. Leg IV with macrosetae on genu-29, tibia-18, basitarsus-31.

Male : Unknown.

Distribution : Thailand.

65. *Amblyseius (Neoseiulus) assamensis* (Chant)

1960. *Typhlodromus (Amblyseius) assamensis* Chant, *Can. Ent.*, 92 : 60.
(Holotype ♀, India : Assam, Jorhat, on citrus, in Citrus Expt. Stn., Riverside California.).
1975. *Amblyseius assamensis*, Gupta, *Internat. J. Acarol.*, 1 (2) : 32-33.
1986. *Amblyseius (Neoseiulus) assamensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 104-105.

Diagnosis : Dorsal shield smooth with 17 pairs of setae ; all being small except s_4 (12) and Z_5 (40, thick). Ventrianal shield pentagonal. Genital shield normal. Fixed digit of chelicera multidentate ; movable digit with no tooth. Macrosetae on leg IV : genu-12, tibia-20, basitarsus-32.

Male : Unknown.

Distribution : India (Assam).

66. *Amblyseius (Neoseiulus) baraki* Athias-Henriot

1966. *Amblyseius baraki* Athias-Henriot, *Bull. Scientifique Bourgogne*, 25 : 211-214.
(Holotype ♀, DZ Baraki, on *Phalaris* sp., repository-unknown.).
1977. *Amblyseius (Amblyseius) baraki*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 54-56.
(Thailand : on grass ; ♀-re-described, ♂-described for the first time).
1977. *Amblyseius dhooriai* Gupta, *Indian J. Acar.*, 1 : 30-31.
(Holotype ♀, India : Punjab, sugarcane, in ZSI).
1986. *Amblyseius (Neoseiulus) baraki*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 105-107.

Diagnosis : Body slender, with 17 pairs of setae and 8 pairs of pores ; setae Z_5 barbed, long ; other setae small. Measurements of

setae : j_1 -13, j_4 -11, j_6 -13, J_2 -12, J_5 -11, r_3 -14, R_1 -16, j_3 -16, z_2 -13, z_4 -15, s_4 -16, Z_1 -14, S_2 -16, S_4 -23, S_5 -21, Z_5 -65, z_5 -11, Z_4 -20. Ventrianal shield slightly longer than wide, reticulate with 3 pairs of preanal setae and a pair of crescentic pores. Spermatheca with bowl-shaped cervix. Fixed digit of chelicera multidentate, movable digit bidentate. Basitarsus IV with macroseta-34 long.

Male : Chaetotaxy same as in female.

Distribution : Palaearctic region, Thailand, India (Punjab).

67. *Amblyseius (Neoseiulus) cynodona* Gupta

1977. *Amblyseius cynodona* Gupta, *Oriental Ins.*, 11 : 626-627.

(Holotype ♀, Paratypes 3 ♀ ♀, Andaman Isls., Port Blair, South Point, on *Cynodon dactylon*, in ZSI).

1986. *Amblyseius (Neoseiulus) cynodona* Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 107-108.

Diagnosis : Dorsal shield smooth, Z_4 , Z_5 and s_4 being long ; other setae smooth, short, pointed. Measurements of setae : j_1 -17, j_4 - j_5 , J_5 -5 each, j_6 , J_2 -10 each ; j_3 -12, z_2 , z_4 -9 each, s_4 -25, Z_1 -10, S_2 -16, S_4 -12, S_5 -10, Z_5 -60, z_5 -5, Z_4 -36. Ventrianal plate shield-shaped, as long as wide. Macrosetae on leg IV : genu-40, tibia-18, basitarsus-55.

Male : Unknown.

Distribution : India (Andaman and Nicobar Isls).

68. *Amblyseius (Neoseiulus) calorai* Corpuz & Rimando

1966. *Amblyseius calorai* Corpuz & Rimando, *Philipp. Agric.*, 50 : 132-134.

(Holotype ♀, Philippines : Tuguegarao, Cagayan, on *Oryza sativa*, in Dept. Ento, Univ. Philip. Paratype 1 ♀, same data as for holotype ; 1 ♂, Caba, Albay, on paddy ; 4 ♀ ♀, 1 ♂, Laguna, on *Digitaria sanguinalis* ; 1 ♂ on *Elusine indica* ; 1 ♂, Laguna, on *Blumea balsamifera*, all in Dept. Ento. Univ. Philip.).

Diagnosis : Dorsal shield with conspicuous groups of wart-like areas, 4 pairs of pores, 370 long, 204 wide with 17 pairs of setae. All setae minute except Z_4 and Z_5 measuring respectively 32 and 54 long ; both thick, latter serrate. Ventrianal shield pentagonal, slightly longer than wide, reticulate with 3 pairs of preanal setae. Peritreme extends anteriorly upto j_1 . Fixed digit of chelicera with 2 teeth and *pilus dentilis*, movable digit unidentate. Macroseta on basitarsus IV-52 long. Spermatheca with cylindrical cervix, slightly narrowed and constricted at the junction of atrium ; atrium with anterior portion produced into 2 lateral arms at the bases of the ducts giving a U-shaped appearance.

Male : Chaetotaxy of dorsum similar to female. Spermatophoral process T-shaped.

Distribution : Philippines.

69. *Amblyseius (Neoseiulus) fallacis* (Garman)

1948. *Iphidulus fallacis* Garman, *Bull. Conn. agric. Expt. Stn.*, 520 : 13.
(Holotype ♀, USA : Connecticut, on apple, in Connecticut Agr. Expt. Stn., New Haven).
1958. *Amblyseius fallacis*, Athias-Henriot, *Bull. Soc. Hist. nat. Afr. N.*, 49 : 34.
1960. *Typhlodromus (Amblyseius) fallacis*, Narayanan, Kaur & Ghai, *Proc. natn. Inst. Sci. India*, 26 (B) (6) : 287-288 (India : Haryana : on sowank.).
1970. *Amblyseius fallacis*, Gupta, *Sci. & Cult.*, 36 : 98. (West Bengal : paddy).
1971. *Amblyseius fallacis*, Gupta *et al.*, *Sci. & Cult.*, 37 : 298.
(Punjab : paddy, feeding on *O. indicus*).
1974. *Amblyseius fallacis*, Gupta, *Ent. Rec.*, 86 : 143.
1975. *Amblyseius fallacis*, Gupta, *Internat. J. Acarol.*, 1(2) : 36. (West Bengal : paddy, feeding on *O. indicus*).
1977. *Amblyseius fallacis*, Gupta, *Oriental Ins.*, 11 : 629 (Andaman Isl. : paddy).
1977. *A. fallacis*, Gupta, *Indian J. Acar.*, 1 : 31-32. (Punjab : carrot, paddy).
1978. *A. fallacis*, Gupta, *Indian J. Acar.*, 2(2) : 62.
(Meghalaya : paddy ; Assam : paddy, arum ; Tripura : *Musa* sp.).
1978. *Neoseiulus fallacis*, Gupta, *Oriental Ins.*, 12 : 331 (Tamil Nadu : grass & paddy).
1986. *Amblyseius (Neoseiulus) fallacis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 109-111.

Diagnosis : Dorsal shield smooth with 17 pairs of setae measuring : j_1 -23, j_4 -20, j_5 -23, j_6 -37, J_2 -43, J_5 -11, j_3 -36, z_2 -31, z_4 -32, s_4 -40, Z_1 -40, S_2 -41, S_4 -48, S_5 -48, Z_5 -68, z_5 -28, Z_4 -59. Sternal and genital shields normal. Ventrianal shield triangular, as long as broad or slightly longer, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-17, tibia-32, basitarsus-50. The setae on the dorsal hexagonal area longer than the distance between their bases.

Male : ?

Distribution : India (Haryana, West Bengal, Punjab, Andaman Isls., Meghalaya, Assam, Tripura, Tamil Nadu).

70. *Amblyseius (Neoseiulus) fraterculus* Berlese

1917. *Amblyseius fraterculus* Berlese, *Redia*, 12 : 172.
(Holotype ♀, Argentina : La Plata, in Berlese's Collections, Florence).
1967. *Amblyseius fraterculus*, Ghai & Menon, *Oriental Ins.*, 1 : 72.
(Coimbatore—Red gram).

1975. *Amblyseius fraterculus*, Gupta, *Internat. J. Acarol.*, 1(2) : 36-37.

1986. *Amblyseius (Neoseiulus) fraterculus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 111-112.

Diagnosis : Dorsal shield with 17 pairs of setae ; s_4 , Z_5 and Z_4 long ; z_2 , z_4 , Z_1 and S_2 equal to one another ; ventrianal shield broad, triangular, with lateral margins concave, with 3 pairs of preanal setae. Four pairs of setae present around ventrianal shield. Leg IV with macrosetae on genu, tibia and basitarsus.

Male : ?

Distribution : India (Tamil Nadu), Argentina.

71. *Amblyseius (Neoseiulus) imbricatus* Corpuz & Rimando

1966. *Amblyseius imbricatus* Corpuz & Rimando, *Philipp. Agric.*, 50 : 127.

(Holotype ♀, Paratypes 5 ♀ ♀, Philippines : Laguna, Los Banos, on *Oryza sativa*, in Dept. Agr. Univ., Philip.. Additional paratypes : 1 ♀, Laguna, on *Asparagus plumosus* ; 1 ♀, Tuguegarao, Cagayan, on paddy, in Dept. Ento. Univ. Philip.).

1977. *Amblyseius (Amblyseius) imbricatus*, Ehara & Bhandhufalck, *J. Fac. Ed., Tottori Univ., Nat. Sci.*, 27(2) : 52-54.

(Thailand : on paddy : Re-described).

1986. *Amblyseius (Neoseiulus) imbricatus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 114-116.

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae and 5 pairs of pores. Lateral setae longer than or as long as distance to the bases of setae next behind, setae on dorsal hexagonal area shorter than distance between their bases. Measurements of setae : j_1 -33, j_4 -30, j_5 -35, j_6 -48, J_2 -57, J_5 -14, r_3 -49, R_1 -51, j_3 -48, z_2 -45, z_4 -50, s_4 -58, Z_1 -55, S_2 -61, S_4 -61, S_5 -58, Z_5 -77, z_5 -35, Z_4 -67. Ventrianal shield pentagonal, imbricate with 3 pairs of preanal setae and a pair of crescentic pores. Spermatheca with bowl-shaped cervix. Macrosetae on Leg IV : genu-36, tibia-41, basitarsus-76. Fixed digit of chelicera multidentate, movable digit with 2 teeth.

Male : Ehara & Bhandhufalck (1977) described male.

Distribution : Philippines, Thailand.

72. *Amblyseius (Neoseiulus) indicus* (Narayanan & Kaur)

1960. *Typhlodromus (Amblyseius) indicus*, Narayanan & Kaur, *Proc. Indian Acad. Sci.*, 51 B : 2-5.

(described from 12 ♀ ♀, 4 ♂ ♂, collected on *Gnorimoschema* infested potato, feeding on *Tyrophagus putrescentiae* ; sex of holotype and paratypes not mentioned, in NPC).

1970. *Amblyseius indicus*, Gupta, *Sci. & Cult.*, 36 : 98 (West Bengal : wheat).
1973. *Amblyseius indicus*, Sandhu, Kaushal & Gupta, *Sci. & Cult.*, 39 : 226-227. (Punjab : maize, feeding on all stages of phytophagous mites).
1975. *Amblyseius indicus*, Gupta, *Internat. J. Acarol.*, 1(2) : 37. (West Bengal : *Zea mays*, found feeding on eggs of *O. indicus*).
1977. *Amblyseius indicus*, Gupta, *Indian J. Acar.*, 1 : 32 (Punjab : wheat).
1977. *Amblyseius bindrai* Gupta, *Indian J. Acar.*, 1 : 34-35.
1986. *Amblyseius (Neoseiulus) indicus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 112-114.

Diagnosis : Dorsal shield with 17 pairs of setae. Measurements of setae : j_1 -12, j_4 , j_6 , J_2 , J_5 -9 each, j_3 , z_2 , z_4 12-13 each, s_4 -16, Z_1 -10, S_2 , S_5 -18 each, Z_5 -56, z_5 -9, Z_4 -23. Sternal shield almost as long as broad. Ventrianal shield pentagonal, with 3 pairs of preanal setae. Spermatheca with long, narrow cervix. Leg IV with macroseta only on basitarsus-45 long.

Distribution : India (New Delhi, West Bengal, Punjab).

73. *Amblyseius (Neoseiulus) longispinosus* (Evans)

1952. *Typhlodromus longispinosus* Evans, *Ann. Mag. nat. Hist.*, (12) 5 : 413-416. (Holotype ♀, Indonesia : on *Manihot untillisima*, in BM (NH)).
1953. *Typhlodromus longispinosus*, Evans, *Ann. Mag. nat. Hist.*, (12) 6 : 449.
1966. *Amblyseius longispinosus*, Corpuz & Rimando, *Philipp. Agric.*, 50 : 129-132. (Philippines : *Ipomoea* sp., rose, *Carica papaya*, *Psophocarpus tetragonolobus*, *Boehmeria nivea*, *Elusine indica*, *Asystacia gangetica*, *Glycine max*, *Dolichos lablab*, *Verbena* sp., *Wedelia biflora*, *Canavalia maritima*, *Passiflora foetida*, *Phaseolus lunatus*, *Saccharum officinarum*, rose, papaya, *C. maritima*).
1970. *Amblyseius longispinosus*, Gupta, *Sci. & Cult.*, 36 : 98 (West Bengal : *Datura metel*).
1970. *Amblyseius (Neoseiulus) longispinosus*, Ehara, *Mushi*, 43 (6) : 56. (Taiwan : *Ampelopsis heterophylla*, *Momordica conchinchinensis*, *Paederia chinensis*).
1975. *Amblyseius longispinosus*, Gupta, *Internat. J. Acarol.*, 1 (2) : 38 (West Bengal : *Datura* sp., *Tabernaemontana coronaria*, feeding on *Tetranychus* sp.).
1976. *Amblyseius longispinosus*, Lo, *Bull. Sun-Yat Sen. Cult. Found.*, 5 : 54-56. (Taipei : *Ipomoea batatas* with *T. cinnabarinus*, *Arachis hypogaea* with *Tetranychus* sp., mulberry with *Tetranychus* sp. and *Eotetranychus* sp., *Salix* sp. with *Tetranychus* sp., pear with *Tetranychus* sp., sugarcane with *Oligonychus* sp., citrus with *Panonychus citri*, *Chrysanthemum* sp.).
1977. *Amblyseius longispinosus*, Gupta, *Oriental Ins.*, 11 : 631 (Andaman Isl. on paddy).

1977. *Amblyseius (Amblyseius) longispinosus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 54.
(Thailand : beans, long bean, mulberry, grass, *Cassava durian*, *Ficus hirta*, *Achyranthes aspera*, *Bridelia* sp., *Urena lobata*, *Sida rhombifolia*, *Dioscorea* sp., citrus).
1978. *Neoseiulus longispinosus*, Gupta, *Oriental Ins.*, 12 : 334-335.
(Tamil Nadu : *Bauhinia purpuria*, castor, *Zinia* sp., beans, lady's finger, Pondicherry : *Bauhinia purpuria*).
1978. *Amblyseius longispinosus*, Gupta, *Indian J. Acar.*, 2(2) : 66 (Re-described)
(Orissa : guava ; Bihar : rose).
1981. *Amblyseius longispinosus*, Gupta & Nahar, *In Contrib to Acar. in India*, p. 9
(Bihar : paddy, infested with *S. andropogoni*).
1986. *Amblyseius (Neoseiulus) longispinosus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 116-118.

Diagnosis : Dorsal shield 325 long, 190 wide, smooth, well sclerotized, with 17 pairs of setae, mostly long excepting j_1 , J_5 and S_5 , which are shorter. Measurements of setae : j_1 -20, j_4 -54, j_5 -67, j_6 -72, J_2 -72, J_5 -7, j_3 -49, z_2 -69, z_4 -76, s_4 -82, Z_1 -76, S_2 -76, S_4 -59, S_5 -18, Z_5 -78, z_5 -31, Z_4 -69. Sternal, metasternal and genital shields normal. Ventrianal shield triangular, reticulate, longer than broad, with 3 pairs of setae and a pair of preanal pores. Spermatheca with funnel-shaped thick cervix. Macroseta only on basitarsus of leg IV-64.

Male : Unknown.

Distribution : India (West Bengal, Bihar, Tamil Nadu, Pondicherry, Andaman Isls., Orissa), Philippines, Taiwan, Taipai, Thailand, South America, Tasmania, Indonesia, Malayasia.

Remarks : Mallik (1974) studied its predatory importance.

74. *Amblyseius (Neoseiulus) paspalivorus* (De Leon)

1969. *Typhlodromus paspalivorus* De Leon, *Fla Ent.*, 40 : 143-144.
(Holotype ♀, Paratypes ♀ ♀ (?), USA : Florida, Coral Gables, on *Paspalum* sp. ; holotype-in De Leon's Collection, paratypes in Univ. Fla. Collection, Gainesville).
1966. *A. paspalivorus*, Corpuz & Rimando, *Philipp. Agric.*, 50 : 128-129 (Philippines : *Oryza sativa*).
1970. *A. lula*, Gupta, *Sci. & Cult.*, 36 : 98. (W. Bengal : *Salix elegans*)-Misidentification.
1984. *Amblyseius (Neoseiulus) paspalivorus*, Ghai & Gupta, *Bull. zool. Surv. India*, 6(1-3) ; 173-174.
1986. *Amblyseius (Neoseiulus) paspalivorus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 119-120.

Diagnosis : Dorsal shield 400 long, 193 wide, reticulate, specially posteriorly, except Z_5 , which is long, thickened and slightly pilose, others are small. Measurements of setae : j_1 -11, j_4 -11, j_5 -11, j_6 -12, J_2 -13, J_5 -12, j_3 -12, z_2 -10, z_4 -9, s_4 -15, Z_1 -13, S_2 -16, S_4 -30, S_5 -30, Z_5 -89, z_5 -11, Z_4 -25. Ventrianal shield imbricate, longer than wide with 3 pairs of preanal setae and a pair of pores. Fixed digit of chelicera with 3 teeth, anterior to *pilus dentilis*, 2 teeth posterior to it ; movable digit with one tooth. Cervix of spermatheca bell-shaped, atrium rounded. Macroseta on leg IV : basitarsus-44.

Male : ?

Distribution : USA, Philippines, India (Delhi).

75. *Amblyseius (Neoseiulus) rangatensis* Gupta

1977. *Amblyseius rangatensis* Gupta, *Oriental Ins.*, 11 : 632-633.

(Holotype ♀, Paratype 1 ♀, India : Rangat Isl., Yerata, on brinjal, both in ZSI.)

1986. *Amblyseius (Neoseiulus) rangatensis*, Gupta, *Fauua of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 121-122.

Diagnosis : Dorsal shield 316 long, 200 wide, smooth, with 17 pairs of setae, all being short (6-10 long) except j_1 , j_3 , s_4 , Z_5 , Z_4 which measure 16, 20, 32, 60 (weakly serrate) and 40 long, respectively. Sternal, metasternal and genital shields normal. Ventrianal shield 100 long, 92 wide, triangular with 3 pairs of preanal setae and a pair of pores. Macrosetae on leg IV : genu-40, tibia-nil, basitarsus-56.

Male : Unknown.

Distribution : India (Andaman Nicobar Isls.).

76. *Amblyseius (Neoseiulus) siamensis* Ehara & Bhandhufalck

1977. *Amblyseius (Amblyseius) siamensis* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 63.

(Holotype ♀, Paratypes 2 ♀ ♀, Thailand ; Prew, on *Citrus* ; 1 ♀, Thon Buri, on citrus ; 3 ♀ ♀, Thon Buri, on litchi ; 1 ♀ Thon Buri, on *Acaripha* sp., all in Biol. Inst. Fac. Ed. Tott, Univ.).

Diagnosis : Dorsal shield heavily sclerotized, somewhat rounded with 17 pairs of setae and 7 pairs of pores. Z_5 sparsely barbed. Measurements of setae : j_1 -11, j_4 - j_6 -7-8 each, J_5 -9, r_3 -11, R_1 -10, j_3 -10, z_2 -15, z_4 -10, s_4 -12, Z_1 -9, S_2 -10, S_4 -10, S_5 -8, Z_5 -41. Ventrianal shield longer than wide. Fixed digit of chelicera with 2 small subapical teeth

and 6-7 middle teeth ; 2 teeth on movable digit. Ventrianal shield longer than wide with 3 pairs of preanal setae. Leg IV with macrosetae on genu-12, tibia-13, basitarsus-30.

Distribution : Thailand.

77. *Amblyseius (Neoseiulus) stolidus* Chaudhri

1968. *Amblyseius stolidus* Chaudhri, *Acarologia*, 10 : 558-560.

(Holotype ♀, Pakistan : 6 miles south of Sheikhupura, on paddy, in UAL ; Paratypes 4♀♀, same data as for holotype, other ♀♀, on sweet potato, brinjal, citrus, mulberry, lucerne, deposited in USNM & BM (NH).

Diagnosis : Dorsal shield 347 long, 182 wide, with 17 pairs of setae. Measurements of setae : j_1 -18, j_4 - j_5 -17 each, j_6 -19, J_2 -25, J_5 -14, j_3 , z_2 -24, z_4 -25, s_4 -26, Z_1 , S_2 - S_4 -25 each, S_5 -24, Z_5 -53, (weakly serrate), z_5 -20, Z_4 -40 (weakly serrate), r_3 -25, R_1 -20. Ventrianal shield slightly concave near the anterior part, transversely striated with 3 pairs of preanal setae and a pair of preanal pores. Metapodal plates 2 paired. Cervix of spermatheca 4 times as long as wide. Fixed digit of chelicera with 5 subapical teeth and a *pilus dentilis*, one tooth on movable digit. Leg IV with macroseta on basitarsus-60 long.

Male : Unknown.

Distribution : Pakistan.

78. *Amblyseius (Neoseiulus) taiwanicus* Ehara

1970. *Amblyseius (Amblyseius) taiwanicus* Ehara, *Mushi*, 43 (6) : 56-58.

(Holotype ♀, Paratypes 2♀♀, 3♂♂, Taiwan : Fengshan, on pineapple, in Biol. Inst. Fac. Ed. Tott. Univ.).

1977. *Amblyseius (Amblyseius) taiwanicus* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27 (2) : 54 (Thailand : rice, grass, papaya).

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae and 7 pairs of pores ; Z_5 sparsely barbed. Measurements of setae : j_1 -10, j_4 - j_6 -9 each, J_2 -10, J_5 -8, r_3 -10, j_3 -11, z_2 -10, z_4 -10, s_4 -11, Z_1 -11, S_2 -12, S_4 -13, S_5 -16, Z_5 -44, z_5 -9, Z_4 -17. Ventrianal shield broadly rectangular, with 3 pairs of preanal setae and a pair of minute pores ; 2 pairs of metapodal plates. Spermatheca with bell-shaped cervix. Basitarsus IV with macroseta-20 long.

Distribution : Taiwan, Thailand.

In addition to the above species, some more species are known but those could not be included in key for the reasons as mentioned for *Amblyseius (Amblyseius)* sp. on page-14,

79. *Amblyseius (Neoseiulus) venustus* Chaudhri

1968. *Amblyseius venustus* Chaudhri, *Acarologia*, 10 : 560-562.

(Holotype ♀, Pakistan, 4 miles north of Sheikhpura, on *Cynodon dactylon*, in UAL; Paratype 1 ♀, same locality, on paddy; 1 ♀, on fig (Paratypes in USNM and BM (NH)).

Diagnosis : Dorsal shield 340 long, 270 wide, with 17 pairs of setae and 3 pairs of pores. Measurements of setae : j_1 -17, j_4 - j_5 -15 each, j_6 -18, J_2 -21, J_5 -12, j_3 -20, z_2 -19, z_4 -22, s_4 -24, Z_1 -24, S_2 -26, S_4 -21, S_5 -20, Z_5 -54 (weakly serrate), z_5 -17, Z_4 -34 (weakly serrate, longer than the distance between its base and that of Z_5), r_3 -15, R_1 -17. Ventrianal shield 117 long, 97 wide, triangular, sharp inward curve near anterolateral side with 3 pairs of preanal setae and a pair of pores. Cervix of spermatheca long. Leg IV with macroseta on basitarsus-73.

Distribution : Pakistan.

80. *Amblyseius (Neoseiulus) amantis* (Chaudhri, Akbar & Rasool)

1979. *Ansaria amantis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 63.

(Holotype ♀, Pakistan : Charrapani, on *Tamarix aphylla*, in UAF).

Diagnosis : Dorsal shield reticulate, setae blunt ended. Measurements of setae : j_1 -11, j_4 - j_5 -18 each, j_6 -21, J_2 -23, J_5 -13, j_3 , z_2 -18 each, z_4 -21, s_4 -23, Z_1 -21, S_2 -26, S_4 -26, Z_5 -31, z_5 -18, Z_4 -23, r_3 -13, R_1 -16. Ventrianal shield 96 long, 52 wide. Macrosetae on basitarsus IV-26 long.

Male : Unknown.

Distribution : Pakistan.

81. *Amblyseius (Neoseiulus) bheraensis*
(Chaudhri, Akbar & Rasool)

1979. *Neoseiulus bheraensis* Chaudhri, Akbar & Rasool, Rept. Pl 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 76.

(Holotype ♀, Pakistan : Bhera, on *Mangifera indica*, in UAF).

Diagnosis : Dorsal shield 343 long, 146 wide. Measurements of setae j_1 -8, j_4 -8, j_5 -8, j_6 -8, J_2 -10, J_5 -10, j_3 -10, z_2 -8, z_4 -8, s_4 -10, Z_1 -10, S_2 -13, S_4 -13, Z_5 -62, z_5 -8, Z_4 -16, r_3 -5, R_1 -10. Ventrianal shield 104 long, 91 wide. Spermatheca cup or bowl-shaped; cervix poculiform, atrium nodular. Macroseta on basitarsus IV-31.

Male : Unknown.

Distribution : Pakistan.

82. *Amblyseius (Neoseiulus) caruncula*
(Chaudhri, Akbar & Rasool)

1979. *Neoseiulus caruncula* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 83.

(Holotype ♀, Pakistan : Swat, on undet. plant, in UAF).

Diagnosis : Dorsal shield 326 long, 185 wide. Measurements of setae : j_1 -16, j_4 -13, j_5 -16, j_6 , J_2 -18 each, j_3 -18, $z_2 = z_4 = 16$, $s_4 = Z_1 = 23$, S_2 -21, S_4 -18, Z_5 -52, z_5 -16, s_4 -18, Z_4 -36, r_3 -18, R_1 -16. Ventrianal shield 117 long, 104 wide. Macrosetae on basitarsus IV-65.

Male : Unknown.

Distribution : Pakistan.

83. *Amblyseius (Neoseiulus) curvus* Wei-nan & Zhao-Quan

1985. *Amblyseius (Amblyseius) curvus* Wei-nan & Zhao-Quan, *Acta Zootaxonomica Sinica*, 10 (4) : 395-396.

(Holotype ♀, Paratype 1 ♀, South China : Jinafengling, Hainan Isl., on undet. plant).

Diagnosis : Dorsal shield 365-375 long, 185-200 wide. Measurements of setae : j_1 -27-30, j_4 -25-27, j_5 -25-32, j_6 -42, J_2 -53, J_5 -13, J_3 -42, z_2 -40-42, z_4 -40-50, s_4 -50-55, Z_1 -52, S_2 -55-60, S_4 -62-65, S_5 -52-65, Z_5 -70-78, z_5 -27-32, Z_4 -62-67, r_3 -45-47, R_1 -40-50, JV_5 -60-62.

Male : Unknown.

Distribution : South China.

84. *Amblyseius (Neoseiulus) eremicus*
(Chaudhri, Akbar & Rasool)

1979. *Neoseiulus eremicus* Chaudhri, Akbar & Rasool, Rept. PL.480 Project, Univ. Agril. Faisalabad, Pakistan, p. 83.

(Holotype ♀, Pakistan : Faisalabad, on *Gossypium hirsutum*, in UAF).

Diagnosis : Dorsal shield 282 long, 194 wide. Measurements of setae : j_1 -19, j_4 -16, j_5 -15, j_6 , J_2 -18 each, J_5 -8, j_3 -23, z_2 -24, z_4 -26, s_4 -32, Z_1 -26, S_2 -26, S_4 -26, Z_5 -42, z_5 -16, Z -18, r_3 -24, R_1 -13. Ventrianal shield 97 long, 48 wide. Spermatheca with cervix long, 48 wide. Macroseta on basitarsus IV-25.

Male : Unknown.

Distribution : Pakistan.

85. *Amblyseius (Neoseiulus) myrtia*
(Chaudhri, Akbar & Rasool)

1979. *Neoseiulus myrtia* Chaudhri, Akbar & Rasool, Rept PL 480 Project, Univ Agril. Faisalabad, Pakistan, p. 81.

(Holotype ♀, Pakistan : Mian Channu, on *Arundo donax*, in UAF).

Diagnosis : Dorsal shield 388 long, 204 wide. Measurements of setae : j_1 -26, j_4 , j_6 -16 each, J_2 -18, J_5 -13, $j_3 = s_4$ -29 each, $z_2 = z_4$ -21 each, $Z_1 = S_2 = S_4$ -26 each, Z_5 -86, z_5 -23, Z_4 -34, r_3 -23, R_1 -21. Ventrianal shield 133 long, 104 wide. Macroseta on basitarsus IV-68.

Male : Unknown.

Distribution : Pakistan.

86. *Amblyseius (Neoseiulus) reductus*
(Chaudhri, Akbar & Rasool)

1979. *Kashmiricus reductus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, in UAF).

(Holotype ♀, Pakistan : Chenari, on undet. plant, in UAF).

Diagnosis : Dorsal shield 364 long, 198 wide, with 17 pairs of setae : j_1 -16, j_4 -13, j_5 -13, j_6 -13, J_2 -16, J_5 -18; j_3 -21, z_2 -21, z_4 -16, s_4 -23, Z_1 -18, S_2 -13, Z_5 -60, z_5 -13, Z_4 -18, r_3 -21, R_1 -16. Ventrianal shield quadrate, convex anteriorly, concave laterally, with 3 pairs of preanal setae. Macroseta absent on leg IV. Cervix of spermatheca poculiform.

Male : Unknown.

Distribution : Pakistan.

87. *Amblyseius (Neoseiulus) tabularis*
(Chaudhri, Akbar & Rasool)

1979. *Neoseiulus tabularis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, Pakistan, P. 78.

(Holotype ♀, Pakistan : Pirowala forest, on an undet. plant, in UAF).

Diagnosis : Dorsal shield 337 long, 143, wide. Measurements of setae : j_1 -10, j_4 - j_6 -8 each, J_2 -10, J_5 -10, j_3 - s_4 -8 each, Z_1 -10, S_2 -21, S_4 -18, Z_5 -70, z_5 -8, Z_4 -18, r_3 -13, R_1 -8. Macroseta on basitarsus IV-31.

Male : Unknown.

Distribution : Pakistan.

Subgenus **Paraphytoseius** Swirski & Shechter*Key to the species of Paraphytoseius*

1. z_2, z_4 serrate.....*scleroticus*
 — z_2, z_4 smooth.....*multidentatus*

88. **Amblyseius (Paraphytoseius) multidentatus**
 (Swirski & Shechter)

1961. *Paraphytoseius multidentatus* Swirski & Shechter, *Israel J. agric. Res.*, **11(2)** : 114-116.
 (Holotype ♀, Hong Kong : on *Bambusa* sp., Paratypes 2 ♀ ♀, Hong Kong, on *Jasminum* sp., 1 ♀ on Pomelo, 1 ♀, on *Ageratum houstonianum*, *Urena lobata*, *Cyclosorus subtescens*, all in Univ, Inst. Agr., Israel).
1960. *Typhlodromus (Amblyseius) orientalis* Narayanan, Kaur & Ghai, *Proc. natn. Inst. Sci. India*, **26 (B) (6)** : 394.
 (This was described based on 6 ♀ ♀, 2 ♂ ♂, without designating the holotype and paratypes in the original publication, in NPC).
1966. *Amblyseius (Paraphytoseius) narayanani* Ehara & Ghai, *Ehara, Mushi*, **40(6)** : 7'.
1969. *Amblyseius bhadrakaliensis* Gupta, *Bull. Ent., Ent. Soc. India*, **10(3)** : 127-128.
 (West Bengal : *Datura metel*).
1970. *Amblyseius horrifera*, Gupta, *Sci. & Cult.*, **36** : 98.
 (West Bengal : *Polygonum* sp.).
1975. *Amblyseius horrifera*, Gupta, *Internat. J. Acarol.*, **1(2)** : 37.
 (West Bengal : *Polygonum* sp.).
1975. *Amblyseius bhadrakaliensis*, Gupta, *Internat. J. Acarol.*, **1(2)** : 33.
1975. *Amblyseius narayanani*, Gupta, *Internat. J. Acarol.*, **1(2)** : 39.
1977. *Amblyseius bhadrakaliensis*, Gupta, *Oriental Ins.*, **11** : 626.
 (Andaman Isl. : paddy, undet. plant, *Cajanas cajan*, *Rubus* sp., brinjal).
1977. *Amblyseius (Paraphytoseius) multidentatus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, **27(2)** : 79-80.
 (Thailand : *Urena lobata*, bamboo, *Cratoxylum*, *Eupatorium odoratum*, *Triumfetta rhomboides*, *Dioscorea* sp.).
1977. *Amblyseius nicobarensis* Gupta, *Oriental Ins.*, **11** : 631-632.
 Nicobar Isl. : on undet. plant).
1978. *Amblyseius bhadrakaliensis*, Gupta, *Indian J. Acar.*, **2(2)** : 61.
 (Bihar : brinjal ; Orissa : brinjal ; Meghalaya : Undet. plant : Assam : Undet. plant, fern, *Shorea robusta* ; Tripura : Undet. plant).
1979. *Paraphytoseius (Paraphytoseius) bhadrakaliensis*, Gupta, *Bull. zool. Surv. India*, **2(1)** : 81-82.
 (Tamil Nadu : banana, pear, beans, sunflower, cashewnut, brinjal, *Eucalyptus*, tea, rose ; Kerala : rose ; Karnataka : Undet. plant ; Andhra Pradesh : cashewnut.).

1979. *Paraphytoseius multidentatus*, Gupta, *Bull. zool. Surv. India*, 2(1) : 80.
1979. *Paraphytoseius multidentatus*, Chaudhri, Akbar & Rasool, PL 480 Project, Univ. Agril. Faisalabad, Pakistan, p. 23.
1981. *Amblyseius (Paraphytoseius) nicobarensis*, Gupta & Ray, *Bull. zool. Surv. India*, 4(1) : 45-46.
1981. *Amblyseius (Paraphytoseius) narayanani*, Gupta & Ray, *Bull. zool. Surv. India*, 4(1) : 44-45.
(Tripura : *Eupatorium odoratum*).
1981. *Amblyseius (Paraphytoseius) multidentatus*, Gupta & Ray, *Bull. zool. Surv. India*, 4(1) : 43-44.
(Tripura : *Eupatorium odoratum*).
1981. *Paraphytoseius bhadrakaliensis*, Gupta & Nahar, In *Contrib. to Acar in India*, p. 10. (Bihar : *Hibiscus mutabilis*).
1981. *Amblyseius (Paraphytoseius) bhadrakaliensis*, Gupta, *Bull. zool. Surv. India*, 4(1) : 45.
1986. *Amblyseius (Paraphytoseius) multidentatus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 123-126.

Diagnosis : Dorsal shield incised near s_4 , with 14 pairs of setae and some pairs of pores, those near z_5 very large. Setae j_1 , j_3 , s_4 , Z_5 , Z_4 being long, thick and serrate measuring 30, 88, 120, 130 and 70, respectively ; other setae small ; S_5-7 long ; r_3 and R_1 on interscutal membrane. Ventrianal shield 95 long, 55 wide, lateral margins slightly concave, with 3 pairs of preanal setae and a pair of pores. Fixed digit of chelicera multidentate, movable digit 3 dentate. Macrosetae on leg IV : genu-29, tibia-38, basitarsus-45, distitarsus-45, tip with hyaline envelope.

Male : Ehara & Bhandhufalck (1977) figured spermatophoral process.

Distribution : Hong Kong, Thailand, Philippines, Pakistan, India (Tripura, West Bengal, Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Assam, Meghalaya, Andaman and Nicobar Isl., Bihar, Orissa).

89. *Amblyseius (Paraphytoseius) scleroticus* Gupta & Ray

1981. *Amblyseius (Paraphytoseius) scleroticus*, Gupta Ray, *Bull. zool. Surv. India*, 4(1) : 42-43.
(Holotype ♀, India : Uttar Pradesh, Barkot, on an undetermined plant, in ZSI.).
1986. *Amblyseius (Paraphytoseius) scleroticus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 126-127.

Diagnosis : Dorsal shield 260 long, 135 wide, with 14 pairs of setae ; setae j_1 , j_3 , s_4 , Z_4 , Z_5 and r_3 being long, thick and serrate and measure :

25, 56, 69, 45, 69 and 20, respectively ; z_2 -11, (also serrate). Sternal and genital shields normal. Ventrianal shield 90 long, 50 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-15, tibia-29, basitarsus-34 and distitarsus-34 ; all with knobbed tip.

Male : Unknown.

Distribution : India (Uttar Pradesh).

In addition to the above, one more species is known which is not included in key because its status is doubtful. The species is as below :

90. *Amblyseius (Paraphytoseius) cracentis* (Corpuz & Rimando)

1966. *Ptenoseius cracentis* Corpuz & Rimando, *Philipp. Agr.*, 50 : 115-116.
(Holotype ♀, Philippines : Gamu, Isabela, on *Achyranthes aspera* ; in Dept. Ento. Univ. Philip.).
1985. *Paraphytoseius cracentis*, Schicha & Corpuz-Raros, *Internat J. Acarol.*, 11(2) : 67-73.

Diagnosis : Dorsal shield 300 long, 130 wide. Measurements of setae : j_1 -35, j_3 -96, s_4 -144, Z_4 -86, Z_5 -112. Metasternal plate trapezoidal. Leg IV with thickened macroseta on genu-20, tibia-42, basitarsus-52, distitarsus-48, all with bulbous tip. Cervix of spermatheca with shallow arc.

Male : Unknown.

Distribution : Philippines, New Cledonia.

Subgenus *Phytoscutella* Muma

Key to the species of *Phytoscutella*

1. Dorsal shield rugose caudad of setae j_6 ; ventrianal shield with 3 pairs of preanal setae.....*salebrosus*.
- Dorsal shield smooth, caudad of setae j_6 ; ventrianal shield with 5 pairs of preanal setae.....*wongsirii*.

91. *Amblyseius (Phytoscutella) salebrosus* (Chant)

1960. *Typhlodromus (Amblyseius) salebrosus* Chant, *Can. Ent.*, 92 : 58-60.
(Holotype ♀, paratypes 2 ♀ ♀, 2 ♂ ♂, India : Assam, Jorhat, on citrus, in Canadian National Collection, Belleville ; another paratype ♀, above locality and habitat, in Citrus Expt. Stn., Riverside, California).
1975. *Amblyseius salebrosus*, Gupta, *Bull. Sun-Yat Sen Cult. Found.*, 5 : 49-52.
(Taiwan : citrus).

1977. *Amblyseius (Phytoscutella) salebrosus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 73-75. (Re-described).
(Thailand : Sugarcane, citrus, *Hibiscus* sp.).
1986. *Amblyseius (Phytoscutella) salebrosus*, Gupta. Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 128-130.

Diagnosis : Dorsal shield rugose, sclerotized, with 15 pairs of setae, j_5 , J_2 absent. Measurements of setae : j_1 -12, j_4 -4, j_6 -11, J_5 -4, j_3 -16, z_2 -9, z_4 -13, s_4 -134, Z_1 -9, S_2 -52, S_4 -16, S_5 -16, Z_5 -202, z_5 -4, Z_4 -157. Ventrianal shield massive, reticulate, with 3 pairs of preanal setae. Spermatheca with sacular cervix. Leg IV with macrosetae on genu-34, tibia-45, basitarsus-24.

Male : Chant (1960) described male.

Distribution : India (Assam), Taiwan, Thailand.

92. *Amblyseius (Phytoscutella) wongsirii* Ehara & Bhandhufalck

1977. *Amblyseius (Phytoscutella) wongsirii* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 75.
(Holotype ♀, Paratype 1 ♀, Thailand : Prew, on citrus, in Biol. Inst. Fac, Ed., Tott. Univ.).

Diagnosis : Dorsal shield sclerotized, lateral margins rugose, with 15 pairs of setae ; j_5 , J_2 absent. Measurements of setae : j_1 -28, j_4 -9, j_6 -24, J_5 -13, j_3 -64, z_2 -65, z_4 -53, s_4 -169, Z_1 -26, S_2 -174, S_4 -48, S_5 -48, Z_5 -236, z_5 -10, Z_4 -185. Ventrianal shield wider than long, about twice as wide as genital shield. Fixed digit of chelicera multidentate, movable digit tridentate. Macrosetae on leg IV : genu-100, tibia-70, basitarsus-57.

Male : Unknown.

Distribution : Thailand.

Subgenus *Proprioseiopsis* Muma

93. *Amblyseius (Proprioseiopsis) peltatus* Van der Merwe

1968. *Amblyseius (Amblyseius) peltatus* Van der Merwe, *Ent. Mem. Dept. Agr. Tech. Serv. Repub. S. Afr.*, 18 : 259-264.
1970. *Amblyseius rosellus*, Gupta, *Sci. & Cult.*, 36 : 98.
(West Bengal : fern).
1977. *Amblyseius (Proprioseiopsis) peltatus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 71-73 (Re-described).
(Thailand : *Combretum quadrangulare*, grass, *Achyranthes aspera*, *Bridelia* sp., soy-bean, *Dioscorea*, Citrus, Corn).

1980. *Iphiseius punicae* Gupta, 1980, *Entomologists' mon. Mag.*, 115 : 213 (West Bengal : *Punica granatum*).
1986. *Amblyseius (Proprioseiopsis) peltatus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 134-136.

Diagnosis : Dorsal shield 315 long, 232 wide, lateral margins sclerotized. Measurements of setae : j_1 -27, j_4 , j_6 -4 each, j_3 -54, z_2 -31, z_4 -22, s_4 -93, Z_1 -18, S_2 -22, S_4 -10, S_5 -8, Z_5 -80, z_5 -4, Z_4 -93. Sternal shield reticulate, Ventrianal shield robust, triangular, reticulate, 90 long, 108 wide, with 3 pairs of preanal setae and a pair of preanal pores. Spermatheca with funnel-shaped cervix. Macrosetae on leg IV : genu-53, tibia-37, basitarsus-76.

Male : Unknown.

Distribution : India (West Bengal), Thailand, South Africa.

In addition to the above species, the following are also known but could not be included in the key for the same reasons as mentioned for *Amblyseius (Amblyseius)* spp. on page-14.

94. *Amblyseius (Proprioseiopsis) arunachalensis* Gupta

1986. *Amblyseius (Proprioseiopsis) arunachalensis* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 132-134.
(Holotype ♀, India : Arunachal Pradesh, Likabali, on an undet. plant. in ZSI).

Diagnosis : Dorsal shield 336 long, 245 wide, with 17 pairs of setae. Measurements of setae : j_1 -24, j_4 - j_6 -minute, j_3 -15, z_2 -8, z_4 -8, s_4 -201, S_2 - S_5 -minute, Z_5 -400, z_5 -minute, Z_4 -194, r_3 , R_1 -13 each. Ventrianal shield 112 long, 120 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-138, tibia-67, basitarsus-30.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

95. *Amblyseius (Proprioseiopsis) beatus* Chaudhri

1968. *Amblyseius beatus* Chaudhri, *Acarologia*, 10 : 551-553.
(Holotype ♀, Pakistan : West Pakistan Agril. Univ. campus, on *Triticum aestivum*, in UAL ; Paratypes 1 ♀, on grass ; 1 ♀ on debris, in USNM and B.M. (N.H.).)

Diagnosis : Dorsal shield 367 long, 279 wide, oval with 16 pairs of setae and 3 pairs of small pores. Measurements of setae : j_1 -26, j_4 - j_5 -8 each, j_6 -16, J_2 -missing, J_5 -13, j_3 -42, z_2 -28, z_4 -62, s_4 -78, Z_1 -29,

S_2 -36, S_4 -31, S_5 -26, Z_5 -78 (weakly serrate), z_5 -8, Z_4 -75 (serrate), r_3 , R_1 -16 each. Ventrianal shield reticulate, triangular, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-36, tibia-53, basitarsus-81.

Male : Unknown.

Distribution : Pakistan.

96. **Amblyseius (Proprioseiopsis) bulga** (Chaudhri, Akbar & Rasool)

1979. *Proprioseiopsis bulga* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, p. 50.

(Holotype ♀, Pakistan, Abbotabad, UAF campus, on *Ocimum basilicum*, in UAF).

Diagnosis : Dorsal shield 367 long, 260 wide. Measurements of setae : j_1 -13, j_4 - j_5 -minute, j_6 -8, J_5 -minute, j_3 -49, z_2 -26, z_4 -34, s_4 -68, $Z_1 = S_2 = S_4$ -8 each, Z_5 -96, Z_4 -75, r_3 -26, R_1 -13. Ventrianal shield pentagonal. Macrosetae on leg IV : genu-55, tibia-30, basitarsus-65.

Male : Unknown.

Distribution : Pakistan.

97. **Amblyseius (Proprioseiopsis) dentatus**
(Chaudhri, Akbar & Rasool)

1979. *Proprioseiopsis dentatus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, p. 52.

(Holotype ♀, Pakistan, UAF campus, on *Calotropis*, in UAF).

Diagnosis : Dorsal shield 347 long, 244 wide. Measurements of setae : j_1 -29, j_4 - j_6 -minute, J_5 -minute, j_3 -47, z_2 -36, z_4 -62, s_4 -83, Z_1 -41, S_2 -36, S_4 -29, Z_5 -75, Z_4 -68, r_3 -23, R_1 -16. Macrosetae on leg IV : genu-31, tibia-31, basitarsus-83.

Male : Unknown.

Distribution : Pakistan.

98. **Amblyseius (Proprioseiopsis) synachattiensis** Gupta

1985. *Amblyseius (Proprioseiopsis) synachattiensis*, Gupta, *Entomon*, 10(3) : 211.

(Holotype ♀, India : Uttar Pradesh, Garhwal Himalaya, Synachatti, on grass, in ZSI).

1986. *Amblyseius (Proprioseiopsis) synachattiensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 136-138.

Diagnosis : Dorsal shield 504 long, 292 wide, rugose. Measurements of setae : j_1 -34, j_4 -5, j_6 -20, j_3 -54, z_2 -36, z_4 -52, s_4 -90, Z_1 -25, S_2 -18, S_4 -13, S_5 -16, Z_5 -121, z_5 -8, Z_4 -90, r_3 -31, R_1 -18. Spermatheca with bell-shaped cervix. Macrosetae on leg IV : genu-20, tibia-40, basitarsus-34, all pointed.

Male : Unknown.

Distribution : India (Uttar Pradesh).

Subgenus *Proprioseius* Chant

99. *Amblyseius (Proprioseius) Kumaonensis* (Gupta)

1982. *Proprioseius kumaonensis* Gupta, *Indian J. Acar.*, 6 : 28-29.

(Holotype ♀, India : Uttar Pradesh, Kumaon Garhwal Himalayas, on undet. plant, in ZSI).

1986. *Amblyseius (Proprioseius) Kumaonensis*, Gupta, Fauna of India (Acari : Mesostigmata) family Phytoseiidae, p. 138-140.

Diagnosis : Dorsal shield 312 long, 252 wide, highly rugose, well sclerotized with 14 pairs of setae. Measurements of setae : j_1 -36, j_4 -5, j_5 -5, j_6 -7, J_5 -4, j_3 -53, z_2 -15, z_4 -27, s_4 -87, S_2 -17, S_5 -12, Z_5 -72, z_5 -5, Z_4 -50, r_3 -20. Ventrianal shield 96 long, 60 wide, lateral margins concave with 3 pairs of preanal setae. Macrosetae present on genu, tibia and basitarsus of leg IV, all being spatulate.

Male : Unknown.

Distribution : India (Uttar Pradesh).

Subgenus *Typhlodromalus* Muma

Key to the species of *Typhlodromalus*

1. Ventrianal shield vase-shaped	...	2
— Ventrianal shield squarish or pentagonal	...	4
2. j_3 and z_2 equal or j_3 only slightly longer than z_2	...	<i>Kalimpongensis</i>
— j_3 more than 2 times as long as z_2	...	3
3. Z_4 reaches almost upto base of Z_5	...	<i>jarooa</i>
— Z_4 much shorter than distance between its base and that of Z_5	...	<i>sorghumae</i>
4. j_3 and z_2 almost equal or j_3 only slightly longer	...	5
— j_3 2 times as long as z_2	...	<i>eucalypticus</i>
5. z_2 and z_4 equal	...	6
— z_4 2 and 1/2 times as long as z_2	...	<i>manipurensis</i>
6. Z_4 reaches beyond base of S_5	...	<i>lablabi</i>
— Z_4 much smaller than the distance between its base and that of S_5	...	<i>newsami</i>

100. *Amblyseius (Typhlodromalus) eucalypticus* (Gupta)

1978. *Typhlodromalus eucalypticus* Gupta, *Oriental Ins.*, 12 : 330-331.
(Holotype ♀, India : Karnataka. Bandipur Sanctuary, on *Eucalyptus* sp., in ZSI).
1986. *Amblyseius (Typhlodromalus) eucalypticus* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 144-146.

Diagnosis : Dorsal shield with anterior lateral margins imbricate with 17 pairs of setae. Measurements of setae : j_1 -24, j_3 -20, s_4 -28, Z_5 -64, Z_4 -24 ; other setae 5-6 long. Ventrianal shield longer than broad, with 3 pairs of preanal setae. Spermatheca with elongated flask-shaped cervix, bulbous atrium and long duct. Leg IV with macrosetae on genu-48, basitarsus-60.

Male : Unknown.

Distribution : India (Karnataka).

101. *Amblyseius (Typhlodromalus) jarooa* Gupta

1977. *Amblyseius jarooa* Gupta, *Oriental Ins.*, 11 : 629.
(Holotype ♀, Andaman Isl., Wandrau, on undetermined plant, in ZSI ; Paratypes 2 ♀ ♀, 1 ♂, Ferrargunj, Manpur, on an undet. plant, in ZSI).
1978. *Amblyseius swaga*, Gupta, *Indian J. Acar.*, 2(2) : 73 (Assam : *Tectona grandis*).
1986. *Amblyseius (Typhlodromalus) jarooa* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 148-150.

Diagnosis ; Dorsal shield 320 long, 180 wide, with 17 pairs of setae and a pair of pores above the level of Z_4 . Dorsal setae mostly small except j_1 , j_3 , s_4 , Z_5 and Z_4 which are longer and measure : 24, 20, 40, 88 (serrate) and 48, respectively. Sternal and genital shields normal ; metasternal plate absent. Spermatheca funnel-shaped. Leg IV with macrosetae on genu-53, tibia-38 and basitarsus-53.

Male : Gupta (1977) illustrated the ventrianal and sternitigenital shields.

Distribution.: India (Andaman Isls.).

102. *Amblyseius (Typhlodromalus) kalimpongensis* Gupta

1969. *Amblyseius kalimpongensis* Gupta, *Bull. ent., Ent. Soc. India*, 10 : 128-129.
(Holotype ♀, Paratypes 1 ♀, 1 ♂, India : West Bengal, Kalimpong, on *Citrus reticulata*, in ZSI).
1970. *Amblyseius hima*, Gupta, *Sci. & Cult.*, 36 : 98.
(West Bengal : *Rupellia* sp.)—Misidentification.
1975. *Amblyseius kalimpongensis*, Gupta, *Internat. J. Acarol.*, 1(2) : 37 (West Bengal : *Hibiscus mutabilis*).

1975. *Amblyseius hima*, Gupta, *Internat. J. Acarol.*, 1(2) : 37.
(West Bengal : *Hibiscus mutabilis*).
1977. *Amblyseius kalimpongensis*, Gupta, *Indian J. Acar.*, 1 : 32.
(Gujarat : Undet. plant, citrus, weed, guava).
1978. *Typhlodromalus hima*, Gupta, *Oriental Ins.*, 12 : 331 (Tamil Nadu : *Magnolia grandiflora*, maize, *Bougainvillea* sp., Ladys' finger).
1978. *Typhlodromalus kalimpongensis*, Gupta, *Oriental Ins.*, 12 : 331 (Tamil Nadu : banana, brinjal, Karnataka : Undet. plant ; Andhra Pradesh : dahlia).
1978. *Amblyseius kalimpongensis*, Gupta, *Indian J. Acar.*, 2(2) : 63 (Bihar : *Jasminum*, Orissa : *Shorea* sp., cashew, citrus ; Assam : Undet. plant).
1986. *Amblyseius (Typhlodromalus) Kalimpongensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 150-152.

Diagnosis : Dorsal shield smooth with 17 pairs of setae and 5 pairs of pores. Measurements of setae : j_1 - j_6 -18-19 each, J_5 -6, j_3 -27, z_2 -24, z_4 -27, s_4 -31, Z_1 -17, S_2 -20, S_4 -18; S_5 -26, Z_5 -40, z_5 -16, Z_4 -18. Sternal and genital shields normal, metasternal plates absent. Ventrianal shield vase-shaped, strongly concave laterally, with 3 pairs of preanal setae and a pair of preanal pores. Leg IV with macroseta only on basitarsus.

Male : Gupta (1969) figured the spermatophoral process and ventrianal shield.

Distribution : India (West Bengal, Gujarat, Tamil Nadu, Karnataka, Andhra Pradesh, Bihar, Orissa, Assam).

103. *Amblyseius (Typhlodromalus) lablabi* Ghai & Menon

1967. *Amblyseius lablabi* Ghai & Menon, *Oriental Ins.*, 1 : 72-73.
(Holotype ♀, several paratypes ♀♀, India : Karnataka, Bangalore, on *Dolichos lablab*, in NPC).
1975. *Amblyseius lablabi*, Gupta, *Internat. J. Acarol.*, 1(2) : 38.
1986. *Amblyseius (Typhlodromalus) lablabi*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 154-155.

Diagnosis : Dorsal shield reticulate, with 17 pairs of setae ; setae $j_3 > j_1 = z_2$; z_4 and s_4 progressively longer, j_4 , j_5 and z_5 shorter than rest of the dorsal setae. Posterior margin of sternal shield lobed. Ventrianal shield reticulate, pentagonal, longer than broad, anterior margin rounded, lateral margins concave, with 3 pairs of preanal setae and a pair of pores. Leg IV with pointed macrosetae on genu, tibia and basitarsus, that on tibia being shorter.

Male : Unknown.

Distribution : India (Karnataka).

104. *Amblyseius (Typhlodromalus) manipurensis* Gupta

1978. *Amblyseius manipurensis* Gupta, *Indian J. Acar.*, 2(2) : 66-67.

(Holotype ♀, India : Manipur, Ukhral, *Hibiscus esculentus*).

1986. *Amblyseius (Typhlodromalus) manipurensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 156-157.

Diagnosis : Dorsal shield 308 long, 180 wide, smooth with 17 pairs of setae. Measurements of setae : j_1 -22, j_4 - j_6 -7 each, J_2 -12, J_5 -8, j_3 -12, z_2 -8, z_4 -24, s_4 -40, Z_1 -12, S_2 -16, S_4 - S_5 -8 each, Z_5 -68 (gently serrate), z_5 -8, Z_4 -48 (smooth). Ventrianal shield 92 long, 64 wide, with 3 pairs of preanal setae and a pair of pores. Spermatheca with tubular cervix. Macrosetae on leg IV : genu-28, tibia-28, basitarsus-64.

Male : Unknown.

Distribution : India (Manipur).

105. *Amblyseius (Typlodromalus) newsami* Evans

1953. *Typhlodromus newsami* Evans, *Ann. Mag. nat. Hist.*, (12)6 : 450-458.

(Holotype ♀, Paratype 1♂, Malaya, on rubber, in BM(NH)).

1977. *Amblyseius (Amblyseius) newsami*, Ehara & Bhandhufalck, *J. Fac. Ed. Tott. Univ. Nat. Sci.*, 27(2) : 62-63 (Thailand : citrus, litchi, okra, banana).

Diagnosis : Dorsal shield reticulate only along anterior lateral margins with 17 pairs of setae and 10 pairs of pores ; Z_5 smooth. Measurements of setae : j_1 -24, j_4 - j_6 -9-10 each, J_2 -14, J_5 -8, r_3 -13, R_1 -13, j_3 -11, z_2 -10, z_4 -11, s_4 -15, Z_1 -14, S_2 -14, S_4 -13, S_5 -13, Z_5 -45, z_5 -9, Z_4 -14. Metasternal setae on plates. Ventrianal shield vase-shaped, widest at anal region with 3 pairs of preanal setae and a pair of conspicuous crescentic pores. Cervix of spermatheca tubular. Fixed digit of chelicera multidentate, movable digit with a few weak teeth. Macrosetae on leg IV : genu-50, tibia-38, basitarsus-49.

Male : Unknown.

Distribution : Malaya, Hong Kong, Thailand.

106. *Amblyseius (Typhlodromalus) sorghumae* Gupta

1977. *Amblyseius sorghumae* Gupta, *Oriental Ins.*, 11 : 635-636.

(Holotype ♀, India : Car Nicobar Isl., on maize ; Paratypes 2♀♀ same data as for holotype, all in ZSI).

1986. *Amblyseius (Typhlodromalus) sorghumae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, 157-158.

Diagnosis : Dorsal shield 330 long, 225 wide, smooth, with 17 pairs of setae. Measurements of setae : j_1 -18, j_4 - J_6 , J_2 , J_5 , 6-8 each,

j_3 -11, z_2 , z_4 -9 each, s_4 -16, Z_1 , S_2 - S_5 -7 each, Z_5 -72, z_5 -5, Z_4 -17. Sternal, metasternal and genital shields normal. Ventrianal shield 92 long, 64 wide, lateral margins concave at preanal region. Spermatheca with filamentous cervix. Leg IV with macrosetae on genu-48, tibia-40, basitarsus-36.

Male : Unknown.

Distribution : India : Andaman—Nicobar Isls.

In addition to the above, the following species of this subgenus are also known from the Oriental region but could not be included in key for late publications of those species.

107. *Amblyseius (Typhlodromalus) chikmagalurensis* Gupta

1985. *Amblyseius (Typhlodromalus) chikmagalurensis* Gupta, *Env. & Ecol.*, 3(3) : 434-435.

(Holotype ♀, India : Karnataka, Chikmagalur, on undet. plant. in ZSI).

1986. *Amblyseius (Typhlodromalus) chikmagalurensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 141-142.

Diagnosis : Dorsal shield 274 long, 150 wide. Measurements of setae : j_1 -22, j_4 -22, j_6 -18, J_2 -16, J_5 -8, j_3 -22, z_2 -25, z_4 -29, s_4 -37, Z_1 -16, S_2 -13, S_4 -22, S_5 -18, Z_5 -45, z_5 -21, Z_4 -18. Ventrianal shield 78 long, 50 wide. Macrosetae on leg IV : basitarsus-49.

Male ; Unknown.

Distribution : India (Karnataka).

108. *Amblyseius (Typhlodromalus) chitradurgae* Gupta

1985. *Amblyseius (Typhlodromalus) chitradurgae* Gupta, *Env. & Ecol.*, 3(3) : 435-436.
(Holotype ♀, Paratypes 11 ♀♀ 1♂, India : Karnataka, Chitradurga, in ZSI).

1986. *Amblyseius (Typhlodromalus) chitradurgae*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 143-144.

Diagnosis : Dorsal shield 292 long, 146 wide, rugose. Measurements of setae : j_1 -20, j_4 -16, j_5 -16, j_6 -16, J_2 -18, J_5 -5, j_3 -27, z_2 -27, z_4 -29, s_4 -35, Z_1 -18, S_2 -25, S_4 -24, S_5 -22, Z_5 -44, z_5 -20, Z_4 -22, r_3 -25, R_1 -16. Ventrianal shield 78 long, 56 wide. Macroseta on basitarsus IV-31.

Male : Gupta (1985) figured the spermatophoral process.

Distribution : India (Karnataka).

109. *Amblyseius (Typhlodromalus) ficusi* Gupta

Amblyseius (Typhlodromalus) ficusi Gupta, *Oriental Ins.*, (In press).

(Holotype ♀ Paratypes 3 ♀ ♀, India : Arunachal Pradesh, Kambang, on *Ficus* sp., in ZSI).

1986. *Amblyseius (Typhlodr. malus) ficusi*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 146-148.

Diagnosis ; Dorsal shield 292 long, 157 wide. Measurements of setae : j_1 -13, j_4 -13, j_5 -11, j_6 -13, J_2 -10, J_5 -5, j_3 -16, z_2 -11, z_4 -20, s_4 -25, Z_1 -11, S_2 -13, S_4 -9, S_5 -9, Z_5 -49, z_5 -9, Z_4 -22, r_3 -13, R_1 -10, Ventrianal shield 78 long, 50 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-25, tibia-25, basitarsus-47.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

110. *Amblyseius (Typhlodromalus) laaensis* Gupta

1986. *Amblyseius (Typhlodromalus) laaensis* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 152-154.

(Holotype ♀, Paratype 1 ♀, India : Arunachal Pradesh, Laa, on tea, in ZSI).

Diagnosis : Doral shield 270 long, 130 wide, weakly reticulate anteriorly. Measurements of setae : j_1 -16, j_4 - j_5 -4-5 each, j_6 -10, J_5 -8, j_3 -29, z_2 -7, z_4 -22, s_4 -40, Z_1 -13, S_2 -27, S_5 -13, Z_5 -40, z_5 -6, Z_4 -25, r_3 -22, R_1 -15. Ventrianal shield 90 long, 56 wide, with 3 pairs of preanal setae. Macroseta on basitarsus IV-36.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

Subgenus *Typhlodromips* De Leon

Key to the species of Typhlodromips

1. J_2 absent	...	...	<i>lenis</i>
— J_2 present	...	...	2
2. Besides Z_5 and Z_4 , other setae being subequal	...	...	11
— Besides Z_5 and Z_4 there are other long setae	...	...	3
3. z_2 and z_4 equal	...	...	7
— z_2 and z_4 unequal	...	...	4
4. z_3 3 times the length of z_2	...	...	<i>potentillae</i>
— z_3 less than 2 times the length of z_2	...	...	5
5. Z_4 much longer (over 4 times) the length of S_5	...	...	6
— Z_4 as long as S_5	...	...	<i>mangiferae</i>

6	S_2 over 4 times the length of Z_1	...	...	<i>tetranychivorus</i>
—	S_2 only slightly longer than Z_1	...	...	<i>similis</i>
7.	z_4 and s_4 almost equal	...	...	9
—	z_4 and s_4 unequal	...	...	8
8.	Z_4 reaches almost upto the base of Z_5	...	...	<i>crotalariae</i>
—	Z_4 shorter than the distance between Z_4 and Z_5	...	...	<i>neocrotalariae</i>
9.	Macroseta on basitarsus IV over $1\frac{1}{2}$ times as that of genu IV	...	...	10
—	Macroseta on basitarsus IV much less than $1\frac{1}{2}$ times as that of genu IV	...	...	<i>eujeniae</i>
10.	Sternal shield with indentation posteriorly	...	...	<i>hidakai</i>
—	Sternal shield without indentation posteriorly	...	...	<i>guajavae</i>
11.	Z_4 quite long at least 3 times the length of s_4	...	...	15
—	Z_4 not so long	...	...	12
12.	Ventrianal shield as long as wide	...	...	13
—	Ventrianal shield longer than wide	...	...	14
13.	Ventrianal shield notched on lateral sides	...	...	<i>sapienticola</i>
—	Ventrianal shield not notched	...	...	<i>ghanii</i>
14.	Macroseta on genu IV longer than that on tibia IV	...	...	<i>officinaria</i>
—	Macroseta on genu IV shorter than that on tibia IV	...	...	<i>polyantheae</i>
15.	Z_4 distinctly serrate	...	...	18
—	Z_4 smooth	...	...	16
16.	Z_4 reaches almost upto base of S_5	...	...	<i>meghalayensis</i>
—	Z_4 much shorter than the distance between its base and that of Z_5	...	...	17
17.	Macroseta on leg IV knobbed	...	...	<i>labis</i>
—	Macroseta on leg IV simple	...	...	<i>arecae</i>
18.	Spermatheca obscured	...	...	<i>johoreae</i>
—	Spermatheca prominent	...	...	19
19.	Dorsal shield reticulate throughout	...	...	<i>syzygii</i>
—	Dorsal shield smooth or reticulate marginally	...	...	20
20.	Z_4 reaches almost upto the base of Z_5	...	...	21
—	Z_4 much shorter than the distance between its base and that of Z_5	...	...	23
21.	Macrosetae on leg IV knobbed	...	...	22
—	Macrosetae on leg IV smooth	...	...	<i>suknaensis</i>
22.	Macrosetae on genu IV knobbed, others mostly smooth	...	...	<i>asiaticus</i>
—	Macrosetae on genu, tibia and basitarsus of leg IV knobbed	...	...	<i>linearis</i>
23.	Macrosetae on genu IV and tibia IV almost equal	...	...	24
—	Macrosetae on genu IV much longer (over 2 times) than that of tibia IV	...	...	<i>perfectus</i>
24.	Cervix of spermatheca funnel-shaped	..	..	<i>okinawanus</i>
—	Cervix of spermatheca tubular	...	...	<i>vignae</i>

111. *Amblyseius (Typhlodromips) arecae* Gupta

1977. *Amblyseius arecae* Gupta, *Oriental Ins.*, 11 : 624-626.
(Holotype ♀, Paratypes 5 ♀ ♀, 1 ♂, Andaman Isls., Aniket, on arecanut, in ZSI).
1986. *Amblyseius (Typhlodromips) arecae*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 160-162.

Diagnosis : Dorsal shield well sclerotized with 17 pairs of setae, mostly small except Z_5 and Z_4 which are longer measuring 90 and 26, respectively. Sternal, metasternal and genital shields normal. Ventrianal shield squarish, concave at preanal region with 3 pairs of preanal setae. Spermatheca with elongate cervix and knobbed atrium. Macrosetae on leg IV : genu-44, tibia-32 and basitarsus-48.

Male : Gupta (1977) figured its spermatophoral process.

112. *Amblyseius (Typhlodromips) asiaticus* (Evans)

1953. *Typhlodromus asiaticus* Evans, *Ann. Mag. nat. Hist.*, (12)6 : 461-463.
(Holotype ♀, Indonesia : Bogor, on leaves infested with tetranychids, in BM(NH)).
1960. *Typhlodromus (Amblyseius) asiaticus*, Narayanan, Kaur & Ghai, *Proc. Nat. Inst. Sci. India*, 26(B) (6) : 389.
(Karnataka : arecanut)—Identification doubtful.
1970. *Amblyseius asiaticus*, Gupta, *Sci. & Cult.*, 36 : 98.
—Misidentification.
1975. *Amblyseius asiaticus*, Gupta, *Internat. J. Acarol.*, 1(2) : 32.
(West Bengal : *Helianthus annuus*, *Anacardium occidentale*)—Misidentification.
1977. *Amblyseius (Amblyseius) asiaticus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 58-59. (Redescribed).
(Thailand & Malay : *Cambretum quadrangulare*, *Eupatorium odoratum*, *Coleus blumei*, soy-been, bamboo, guava, *Dioscorrea*, citrus, *Triumfetta rhomboides*, tea, *Celosia argentea*, corn).

Diagnosis : Dorsal shield imbricate near lateral margins, with 17 pairs of setae. Measurements of setae : j_1 -20, j_4 -8, j_5 -8, j_6 -10, J_2 -12, J_5 -8, r_3 -13, R_1 -11, j_3 -15, z_2 -14, z_4 -16, s_4 -21, Z_1 -11, S_2 -15, S_4 -13, Z_5 -73, z_5 -9, Z_4 -51. Ventrianal shield shield-shaped with 3 pairs of setae. Spermatheca with cervix elongate, tubular, gradually widening towards mouth and often coiled. Fixed digit of chelicera multidentate ; movable digit 3-dentate. Macrosetae on leg IV, genu-27, tibia-22, basitarsus-50.

Male : Chaetotaxy same as in female. Spermatophoral process inverted L-shaped.

Distribution : Indonesia, Malaya, India ?, Thailand.

113. *Amblyseius (Typhlodromips) crotalariae* Gupta

1977. *Amblyseius crotalariae* Gupta, *Entomologists' mon. Mag.*, 112 : 53-55.
(Holotype ♀, India : West Bengal, Darjeeling Dist., Sukna, *Crotalaria* sp., in ZSI).
1978. *Amblyseius crotalariae*, Gupta, *Indian J. Acar.*, 2(2) : 61-62 (Meghalaya : fern Assam : fern ; Tripura ; *Nyctanthes arbortristis*).
1986. *Amblyseius (Typhlodromips) crotalariae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 162-164.

Diagnosis : Dorsal shield smooth with 17 pairs of setae and 5 pairs of pores. Excepting setae j_1 , j_3 , s_4 , Z_4 and Z_5 , other setae being very small. Setae measure : j_1 -18, j_3 -22, s_4 -36, Z_4 -45, Z_5 -63 (serrate). Sternal shield slightly reticulate ; almost as long as broad. Ventrianal shield elongate, lateral margins constricted with 3 pairs of setae, Macrosetae on leg IV : genu—46, tibia-36, basitarsus-55.

Male : Gupta (1978) figured its spermatophoral process.

Distribution : India (West Bengal, Assam, Tripura).

114. *Amblyseius (Typhlodromips) eujeniae* Gupta

1977. *Amblyseius eujeniae* Gupta, *Oriental Ins.*, 11 : 627-629.
(Holotype ♀, India : Andaman Isls., Ferrargunj, on black berry ; Paratype 1 ♀, Ferrargunj, on banana, all in ZSI).
1986. *Amblyseius (Typhlodromips) eujeniae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, 164-165.

Diagnosis : Dorsal shield smooth, with 17 pairs of setae. Measurements of setae : j_1 -20, j_4 , j_6 -5 each, j_2 -5, j_3 -35, z_2 -8, z_4 -8, s_4 -52, Z_1 , S_2 - S_4 -8 each, Z_5 -80, z_5 -8, Z_4 -56. Ventrianal shield squarish with 3 pairs of preanal setae ; 2 pairs of metapodal plates present. Macrosetae on leg IV : genu-52, tibia-28, basitarsus-64.

Distribution : India (Andaman & Nicobar Isls).

115. *Amblyseius (Typhlodromips) ghanii* (Muma)

1967. *Cydnodromus ghanii* Muma, *Fla. Ent.*, 50(4) : 274.
(Holotype ♀, Pakistan, Hyderabad, on *Gossypium* sp., in USNM).

Diagnosis : Dorsal shield 330 long, 180 wide, slightly sclerotized, with 17 pairs of setae, all being short, except Z_4 and Z_5 which are longer and the latter serrate. Fixed digit of chelicera with 2 teeth.

Distribution : Pakistan.

116. *Amblyseius* (*Typhlodromips*) *guajavae* Gupta

1978. *Amblyseius guajavae* Gupta, *Indian J. Acar.*, 2(2) : 63.

(Holotype ♀, Paratypes 5 ♀ ♀, India : Meghalaya, Dalu, on guava, in ZSI).

1986. *Amblyseius* (*Typhlodromips*) *guajavae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 166.

Diagnosis : Dorsal shield with 17 pairs of setae. Measurements of setae : j_1 -32, j_3 -36, s_4 -64, Z_5 -80, Z_4 -60 ; other setae measure between 6-8 long. Sternal, metasternal and genital shields normal. Ventrianal shield pentagonal, much longer than broad, with 3 pairs of preanal setae. Spermatheca with broad tubular cervix and short atrium. Leg IV with macrosetae : genu-40, tibia-30, basitarsus-76.

Male : Unknown.

Distribution : India (Meghalaya).

117. *Amblyseius* (*Typhlodromips*) *hidakai* Ehara & Bhandhufalack

1977. *Amblyseius* (*Amblyseius*) *hidakai* Ehara & Bhandhufalack, *J. Fac. Ed. Toitiori Univ. Nat. Sci.*, 27(2) : 66-67.

(Holotype ♀, Paratypes 4 ♀ ♀, 1 ♂, Thailand : Fang, on an undet. tree, in Biol. Inst. Fac. Ed. Tott. Univ.).

Diagnosis : Dorsal shield reticulate along anterior margin, with 17 pairs of setae and 5 pairs of pores ; j_3 , s_4 , Z_5 , Z_4 stout, other setae small. Measurements of setae : j_1 -24, j_4 -8, j_5 -7, j_6 -10, J_2 -12, J_5 -8, r_3 -14, R_1 -9, j_3 -38, z_2 -11, z_4 -11, s_4 -65, Z_1 -10, S_2 -12, S_4 -8, S_5 -8, Z_5 -84, z_5 -8, Z_4 -63. Ventrianal shield longer than wide, with 3 pairs of preanal setae and a pair of pores. Fixed digit of chelicera multidentate. Macrosetae on leg IV : genu-56, tibia-39, basitarsus-82.

Male : Chaetotaxy similar as in female.

118. *Amblyseius* (*Typhlodromips*) *johoreae* (Muma)

1967. *Typhlodromips johoreae* Muma, *Fla. Ent.*, 50 : 272.

(Holotype ♀, Malaya : Johore, on oil palm feeding on red spider, in USNM).

Diagnosis : Dorsal shield 320 long, 200 wide, lightly sclerotized, imbricate on anterior fourth fifth, with 17 pairs of setae ; all the setae small except Z_4 and Z_5 which are thick and serrate. Fixed digit of chelicera with 7-9 teeth, movable digit with 2-3 teeth. Cervix of spermatheca a short tubular structure. Chaetotaxy of genu II $2\frac{2}{0} \frac{2}{0} 1$, genu III $1\frac{2}{0} \frac{2}{0} 1$.

Distribution : Malaya.

119. *Amblyseius* (*Typhlodromips*) *lenis* Corpuz & Rimando1966. *Amblyseius lenis* Corpuz & Rimando, *Philipp. Agric.*, 50 : 118-119.

(Holotype ♀, Philippines : College campus, Los Banos, Laguna, on *Citrus nobilis* ; Paratypes 2 ♀ ♀, same locality as for holotype, on *Digitaria sanguinalis* ; 1 ♀, same locality, *Elusine indica* ; 1 ♀, *Pennisetum* sp. ; all in Dept. Ento, Univ. Philip.).

Diagnosis : Dorsal shield smooth, 363 long, 232 wide, with 17 pairs of setae ; j_1 , j_3 , s_4 , Z_4 , Z_5 moderately long measuring 22, 29, 58, 80 and 75, respectively ; others being minute ; r_3 , R_1 on interscutal membrane. Maternal plates rectangular. Ventrianal shield pentagonal, reticulate, with 3 pairs of setae and a pair of pores. Peritreme extends anteriorly upto j_3 . Fixed digit of chelicera multidentate, movable digit unidentate. Spermatheca with cervix a narrow arc, atrium slender. Macrosetae on leg IV : genu-46, tibia-24, basitarsus-55.

Male : Unknown.

Distribution : Philippines.

120. *Amblyseius* (*Typhlodromips*) *labis* Corpuz & Rimando1966. *Amblyseius labis* Corpuz & Rimando, *Philipp. Agric.*, 50 : 124-125.

(Holotype ♀, Paratypes 5 ♀ ♀, 4 ♂ ♂, Philippines, Gamu, Isabela, on *Tabernaemontana pandacaque*. Other Paratypes : 3 ♀ ♀, Villaverde, Nueva Vizcaya, *Premna odorata* ; 1 ♀, College Campus, Laguna, Los Banos, on *Ceiba pentandra*, all in Dept. Ent. Univ. Philip.

Diagnosis : Dorsal shield 328 long, 220 wide, with linear anterior and lateral reticulations, with 17 pairs of setae and 7 pairs of crescentic pores. All setae rather short except Z_4 (20) and Z_5 (78), both thick and the latter serrate. Metasternal setae present on metasternal plates. Peritreme extends beyond j_1 . Fixed digit of chelicera with 10 teeth, movable digit with 3 teeth. Leg IV with 3 macrosetae, all knobbed. Spermatheca with very short and wide cervix, atrium swollen.

Male : Similar to female in chaetotaxy ; spermatophoral process inverted L-shaped.

Distribution : Philippines.

121. *Amblyseius* (*Typhlodromips*) *linearis* Corpuz & Rimando1966. *Amblyseius linearis* Corpuz & Rimando, *Philipp. Agric.*, 50 : 125-127.

(Holotype ♀, Philippines : Gamu, Isabela, on *Achyranthes aspera* ; Paratypes 4 ♀ ♀, 3 ♂ ♂, same data as for holotype ; 6 exs (sex not specified) Los Banos ; 1 ♀, on *Achyranthes aspera* ; 4 ♀ ♀, on mulberry, all in Dept. Ento. Univ. Philip.).

Diagnosis : Dorsal shield 324 long, 214 wide, margins with linear reticulations, with 17 pairs of setae ; all setae short except Z_4 and Z_5 , which are long, thick and serrate. Metasternal plates triangular. Peritreme extends upto j_1 . Ventrianal shield pentagonal with 3 pairs of preanal setae. Leg IV with macrosetae on genu-24, tibia-20, and basitarsus-46. Cervix of spermatheca slender, cylindrical, gradually widening like a funnel ; atrium cylindrical. Fixed digit of chelicera multidentate with *pilus dentilis*, movable digit tridentate.

Male : Similar to female in chaetotaxy. Spermatophoral process inverted L-shaped.

Distribution : Philippines.

122. *Amblyseius (Typhlodromips) mangiferae* Ghai & Menon.

1967. *Amblyseius mangiferae* Ghai & Menon, *Oriental. Ins.*, 1 : 74-75.

(Holotype ♂, Paratype ♀, and 2 more specimens (sex not specified). India : Delhi, on malformed mango infested with eriophyids, in NPC).

1975. *Amblyseius mangiferae*, Gupta, *Internat J. Acarol.*, 1 (2) : 38.

1986. *Amblyseius (Typhlodromips) mangiferae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 168-169.

Diagnosis : Dorsal shield smooth, with 17 pairs of setae, Z_5 being longest and thickest ; j_1 , j_3 , z_2 , z_4 , s_4 , j_6 , J_2 quite long, rest small. Setae j_3 - z_4 being shorter than the distance between their bases. Ventrianal shield with 3 pairs of preanal setae and a pair of circular pores. Leg IV with macrosetae on genu, tibia and basitarsus.

Distribution : India (Delhi).

123. *Amblyseius (Typhlodromips) meghalayensis* Gupta

1978. *Amblyseius meghalayensis* Gupta, *Indian J. Acarol.*, 2(2) : 67-69.

(Holotype ♀, Paratypes 4 ♀♀, Meghalaya : Dalu, guava, in ZSI ; additional paratypes 1 ♀, Assam, Dhubri, undet plant, in ZSI).

1986. *Amblyseius (Typhlodromips) meghalayensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 170-171.

Diagnosis : Dorsal shield 300 long, 162 wide, reticulate with 17 pairs of setae. Measurements of setae : j_1 -20, j_4 - j_5 -8 each, j_6 , J_2 -10 each, J_5 -6, j_3 -13, z_2 -10, z_4 -16, s_4 -24, Z_1 -12, S_2 -17, S_4 - S_5 -16 each, Z_5 -64, z_5 -8, Z_4 -41 ; all setae being smooth and pointed. Ventrianal shield 88 long, 70 wide, with 3 pairs of preanal setae and a pair of pores. Spermatheca with tubular cervix. Macrosetae on leg IV : genu-24, tibia-20, basitarsus-48.

Male : Gupta (1978) figured its spermatophoral process.

Distribution : India : Meghalaya.

124. *Amblyseius (Typhlodromips) neocrotalariae* (Gupta)

1978. *Typhlodromips neocrotalariae* Gupta, *Oriental Ins.*, 12 : 335.

(Holotype ♀ Paratypes 2 ♀ ♀, 1 ♂, India : TamilNadu, Kodai Kanal, Oothu, on *Datura* sp., in ZSI).

1986. *Amblyseius (Typhlodromips) neocrotalariae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 172-173.

Diagnosis : Dorsal shield 324 long, 212 wide, reticulate, with 17 pairs of setae measuring : j_1 -20, j_4 - j_5 -8 each, j_6 , J_2 -12 each, J_5 -8, j_3 -28, z_2 , z_4 -9 each, s_4 -30, Z_1 , S_2 -12 each, S_4 - S_5 -8 each, Z_5 -68 (weakly serrate), z_5 -8, Z_4 -40. Ventrianal shield 108 long, 80 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-52, tibia-40, basitarsus-60.

Male : Unknown.

Distribution : India (Tamil Nadu).

125. *Amblyseius (Typhlodromips) okinawanus* Ehara

1967. *Amblyseius (Amblyseius) okinawanus* Ehara, *Mushi*, 40(6) : 72-73.

(Holotype ♀, Paratypes 6 ♀ ♀, 2 ♂ ♂, Japan : Okinawa Isl., Tomigusuku, on *Verbena officinalis*. Additional Paratypes 1 ♀, 1 ♂, Tomigusuku, on *Plantago asiatica* ; 1 ♀, 1 ♂, same locality, *Brachiaria mitica* ; 1 ♀, Nakijin, on *Gerbera* sp., all in Zool. Inst. Fac. Sci., Hokk. Univ.).

1970. *Amblyseius okinawanus*, Lo, *Bull. Sun-Yat. Sen Cult. Found.*, 5 : 56 (Taiwan : on citrus with *P. ulmi*).

1977. *Amblyseius okinawanus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 58.

(Thailand : *Ageratum conyzoides*, *Polygonum chinensis*, corn, citrus).

Diagnosis : Dorsal shield reticulate near lateral margins with 17 pairs of setae and 6 pairs of pores. Setae Z_5 and Z_4 stout and serrate. Measurements of setae : j_1 -18, j_4 -10, j_5 -9, j_6 -11, J_2 -12, J_5 -8, r_3 -12, R_1 -11, j_3 -19, z_2 -14, z_4 -15, s_4 -19, Z_1 -12, S_2 -17, S_4 -17, S_5 -15, Z_5 -57, z_5 -10, Z_4 -30. Ventrianal plate shield-shaped, longer than wide, with 3 pairs of preanal setae ; metasternal plate with seta present. Macrosetae on leg IV, genu-29, tibia-24, basitarsus-54. Spermatheca with funnel-shaped cervix.

Male : Spermatophoral process hammer-shaped.

Distribution : Japan, Taiwan, Thailand.

126. *Amblyseius* (*Typhlodromips*) *officinaria* Gupta

1975. *Amblyseius officinaria* Gupta, *Indian J. Acar.*, 1(2) : 39.
(Holotype ♀, Paratypes 4♀ ♀, 1♂, India : West Bengal, Chinsurah, on *Saccharum officinarum*, in ZSI).
1986. *Amblyseius* (*Typhlodromips*) *officinaria*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 176-177.

Diagnosis : Dorsal shield 302 long, 200 wide, margins slightly imbricate with 17 pairs of setae and 4 pairs of pores. Measurements of setae : j_1 -18, j_4 -4, j_5 -6 each, j_6 -10, J_2 -12, J_5 -7, j_3 , z_2 , z_4 -9 each, s_4 -18, Z_1 -9, S_2 -14, S_4 -11, S_5 -10, Z_5 -82, Z_4 -30. Sternal, metasternal and genital shields normal. Ventrianal shield 104 long, 72 wide, with 3 pairs of preanal setae. Spermatheca with cup-shaped cervix. Macrosetae on leg IV : genu-23, tibia-27, basitarsus-46.

Male : Gupta (1975) figured the spermatophoral process.

Distribution : India (West Bengal).

127. *Amblyseius* (*Typhlodromips*) *perfectus* Chaudhri

1968. *Amblyseius perfectus* Chaudhri, *Acarologia*, 10 : 555-558.
(Holotype ♀, Pakistan : 4 miles North of Sheikhpura, on loquat, in UAL ; Paratype 1♀, 6 miles South of Sheikhpura, on paddy, repository not mentioned).

Diagnosis : Dorsal shield 333 long, 186 wide, with 17 pairs of setae. j_1 -13, j_4 , j_5 -10 each, j_6 -14, J_2 -15, J_5 -8, j_3 -23, z_2 , z_4 -18 each, s_4 -26, Z_1 -17, S_2 -20, S_4 - S_5 -14 each, Z_5 -58 (weakly serrate), z_5 -12, Z_4 -39, (weakly serrate), r_3 -18, R_1 -16. Ventrianal shield rectangular, 117 long, 88 wide, with 3 pairs of setae and a pair of elliptical pores. Two pairs of metapodal plates present. Spermatheca with long funnel-shaped cervix. Chelicera with 5 subapical teeth on fixed digit and 1 subapical tooth on movable digit. Leg IV with macrosetae on genu-41, tibia-17, basitarsus-61.

Male : Unknown.

Distribution : Pakistan.

128. *Amblyseius* (*Typhlodromips*) *polyantheae* Gupta

1975. *Amblyseius polyantheae* Gupta, *Internat. J. Acarol.*, 1(2) : 42-43.
(Holotype ♀, India : West Bengal, on *Polyanthea tuberosa*, in ZSI).
1986. *Amblyseius* (*Typhlodromips*) *polyantheae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae p. 178-179.

Diagnosis : Dorsal shield 325 long, 250 wide, with 17 pairs of setae

Measurements of setae : j_1 -18, j_4 - j_6 , J_2 , J_5 -6-9 each, j_3 -14, z_2 -12, z_4 -8, s_4 -27, Z_1 -18, S_2 -14, S_4 -14, S_5 -9, Z_5 -57, z_5 -6, Z_4 -27. Ventrianal shield longer (104) than broad (81), with 3 pairs of preanal setae. Macrosetae on leg IV : genu-27, tibia-31, basitarsus-36.

Male : Unknown.

Distribution : India (West Bengal).

129. *Amblyseius (Typhlodromips) potentillae* (Garman)

1956. *Amblyseius potentillae* Garman, *Ann. ent. Soc. Am.*, 51 : 76-77.
(Holotype ♀, Holland, on *Potentilla* sp., in USNM).
1970. *Amblyseius rykei* Pritchard and Baker, Gupta, *Sci. & Cult.*, 36 : 98 (West Bengal : *Ficus*).
1969. *Amblyseius charui* Gupta, *Bull. Ent., Ent. Soc. India*, 10 : 126-127.
(West Bengal : *Magnoles champa* ; *Calophyllum inophyllum*).
1975. *Amblyseius charui*, Gupta, *Internat J. Acarol*, 1(2) : 33 (West Bengal : *Punica granatum*).
1981. *Amblyseius potentillae*, Gupta, *Indian J. Acar.*, 5 : 47 (Re-described).
(Jammu & Kashmir : on cucurbitaceous plant).
1986. *Amblyseius (Typhlodromips) potentillae*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 180-182.

Diagnosis : Dorsal shield 300 long, 172 wide, with 17 pairs of setae and 3 pairs of pores. Setae j_1 , j_3 , s_4 , Z_4 and Z_5 being long, measuring 20, 44, 72, 60 and 84, respectively. Ventrianal shield 100 long, 84 wide, anterior margin rounded, lateral margins gently concave with 3 pairs of preanal setae and a pair of pores. Fixed digit of chelicera multidentate, movable digit 3-dentate. Spermatheca with bell-shaped cervix. Macrosetae on leg IV : genu-40, tibia-40, basitarsus-60.

Male : ?

Distribution : Europe, USA, India (Jammu & Kashmir).

130. *Amblyseius (Typhlodromips) sapienticola* Gupta

1970. *Amblyseius sapienticola* Gupta, *Oriental Ins.*, 11 : 633-635.
(Holotype ♀, Paratypes 4 ♀ ♀, India : Andaman Isls., Ferrargunj, on banana, in ZSI).
1986. *Amblyseius (Typhlodromips) sapienticola*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 182-183.

Diagnosis : Dorsal shield 308 long, 188 wide, reticulate. Measurements of setae : j_1 -16, j_4 - j_6 , J_2 - J_5 -8 each, j_3 -12, z_2 , z_4 -8 each, s_4 -16, Z_1 , S_4 - S_5 -8 each, S_2 -12, Z_5 -64, z_5 -8, Z_4 -18. Ventrianal shield 100 long, 108 wide, lateral margins notched, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-48, tibia-33, basitarsus-48.

Male : Unknown.

Distribution : India (Andaman Isls).

131. *Amblyseius (Typhlodromips) similis* (Koch)

1839. *Zercon similis* Koch, Fasc. 27.

(Holotype ♀, Germany, lost).

1959. *Typhlodromus (Amblyseius) similis*, Chant, *Can. Ent.*, 91 (Suppl. 12) : 93-94.

Diagnosis : Dorsal shield with 17 pairs of setae ; j_3 , s_4 , Z_5 , Z_4 long ; z_4 , z_2 , Z_1 , S_4 and S_5 minute but equal to one another ; $S_2 > Z_1$. Ventrianal shield long, narrow, lateral margins parallel, with 3 pairs of preanal setae and a pair of pores. Leg IV with macrosetae on genu, tibia and basitarsus.

Distribution : Germany, Italy, France, Belgium, Austria, Indonesia, Holland, Mexico, California, Texas.

Remarks : Koch's holotype is lost.

132. *Amblyseius (Typhlodromips) suknaensis* Gupta

1970. *Amblyseius suknaensis* Gupta, *Oriental Ins.*, 4 : 185-186.

(Holotype ♀, Paratypes 3 ♀ ♀, 2 ♂ ♂, India : West Bengal, Sukna, on *Colocasia* sp., in ZSI).

1975. *Amblyseius suknaensis*, Gupta, *Internat. J. Acarol.*, 1(2) : 44.

1975. *Amblyseius daturae* Gupta, *Internat. J. Acarol.*, 1(2) : 34-36 (W. Bengal—*Datura*).

1977. *Amblyseius suknaensis*, Gupta, *Oriental Ins.*, 11 : 636 (Andaman Isl. : *Tectona grandis*, Rangat Isl. : Undet. plant, Car Nicobar : Undet. plant).

1978. *Neoseiulus suknaensis*, Gupta, *Oriental Ins.*, 12 : 337 (Kerala : rose).

1978. *Amblyseius suknaensis*, Gupta, *Indian J. Acarol.*, 2(2) : 73. (Orissa : *Shorea robusta* ; Meghalaya : Undet. plant. ; Assam : fern ; Tripura : Undet. plant).

1986. *Amblyseius (Typhlodromips) suknaensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 185-188.

Diagnosis : Dorsal shield 287 long, 175 wide, with 17 pairs of setae and 3 pairs of pores. Measurements of setae : j_1 -18, j_4 - j_6 , J_2 - J_5 -6-8 each, j_3 -13, z_2 -9, z_4 -11, s_4 -13, Z_1 , S_2 - S_5 -9 each, Z_5 -67, z_5 -6, Z_4 -47. Sternal, metasternal and genital shields normal. Ventrianal shield pentagonal, 90 long, 85 wide, with 3 pairs of preanal setae and a pair of pores. Macrosetae on leg IV : genu-27, tibia-18, basitarsus-48.

Male : Gupta (1970) figured its spermatophoral process and ventrianal shield.

Distribution : India (West Bengal, Andaman & Nicobar Isls., Kerala, Orissa, Meghalaya, Assam, Tripura).

133. *Amblyseius (Typhlodromips) syzygii* Gupta

1975. *Amblyseius syzygii* Gupta, *Internat. J. Acarol.*, 1(2) : 44-45.
(Holotype ♀, India : West Bengal, on *Syzygium cumini*, in ZSI).
1977. *Amblyseius syzygii*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 56-58.
(Thailand : citrus, guava, *Cratoxylum*, litchi, bamboo, sugarcane, soybean, papaya, *Eupatorium odoratum*, *Triumfetta rhomboides*, longan, corn, *Hibiscus* sp.).
1978. *Amblyseius syzygii*, Gupta, *Indian J. Acar.*, 2(2) : 74.
(Orissa : leaf litter ; Tripura : Undet. plant).
1981. *Amblyseius syzygii*, Gupta & Nahar, *In Contrib. to Acar. in India*, p. 8. (Bihar : maize, beans, sugarcane).
1986. *Amblyseius (Typhlodromips) syzygii*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*. p. 188-190.

Diagnosis : Dorsal shield reticulate, 345 long, 210 wide. Measurements of setae : j_1 -15, j_4 - j_6 , J_2 - J_5 7-10 each, j_3 -16, z_2 - z_4 -9 each, s_4 -20, Z_1 , S_2 - S_5 -10 each, Z_5 -67 (serrate), Z_4 -31 (serrate), z_5 -9. Sternal, metasternal and genital shields normal. Ventrianal shield reticulate, 110 long, 85 wide, with 3 pairs of preanal setae and a pair of pores. Macrosetae on leg IV : genu-45, tibia-31, basitarsus-49.

Male : Ehara & Bhandhufalck (1977) described male.

Distribution : India (West Bengal, Orissa, Tripura), Thailand, Indonesia.

134. *Amblyseius (Typhlodromips) tetranychivorus* (Gupta)

1978. *Typhlodromips tetranychivorus* Gupta, *Oriental Ins.*, 12 : 337-338.
(Holotype ♀, India : Tamil Nadu : Coimbatore, Agril. Univ. Campus, on brinjal, infested with *T. cinnabarinus* ; Paratypes 1 ♀, 1 ♂, Kerala, Trivandrum, Nayer Dan, on undet. plant, all in ZSI).
1981. *Typhlodromips tetranychivorus*, Channa Basavanna, Final Rept. ICAR Research Scheme on Studies on the spidermite family Tetranychidae (1975-79). Univ. Agril. Sci., Bangalore, p. 43.
1981. *Amblyseius tetranychivorus*, Gupta & Nahar, *In. Contrib. to Acar. in India*, p-9. (Bihar : *Hibiscus mutabilis*).
1986. *Amblyseius (Typhlodromips) tetranychivorus*, Gupta, *Fauna of India (Acari ; Mesostigmata) Family Phytoseiidae*, p. 190-192.

Diagnosis : Dorsal shield 320 long, 192 wide, anterior lateral margins imbricate, with 17 pairs of setae measuring j_1 -28, j_4 - j_6 , J_2 - J_5 8-10 each, j_3 -44, z_2 -17, z_4 -36, s_4 -76, Z_1 -8, S_2 -36, S_4 -8, S_5 -8, Z_5 -80, z_5 -8, Z_4 -66. Sternal shield with postlateral projections. Ventrianal shield longer (100) than broad, anterior margin rounded, lateral margins straight with 3 pairs of preanal setae. Macrosetae on leg IV : genu-48, tibia-40 and basitarsus-68. Spermatheca with cup-shaped cervix.

Male : Gupta (1978) figured its spermatophoral process.

Distribution : India (Tamil Nadu, Kerala, Karnataka, Bihar).

135. *Amblyseius (Typhlodromips) vignae* Lai-rong & Li-sheng

1981. *Amblyseius vignae* Lai-rong & Li-sheng, *Fudan J. (Nat. Sci.)*, 20(2) : 221-222.
(Holotype ♀, Fujien Long, on *Vigna sinensis*, repository unknown).

Diagnosis : Dorsal shield 350 long, 250 wide, with 17 pairs of setae. Measurements of setae : j_1 -19, j_4 -8, j_5 -4, j_6 -6, J_2 -11, J_5 -6, z_5 -8, Z_4 -47, j_3 -13, z_2 -13, z_4 -13, s_4 -19, Z_1 -8, S_2 -17, S_4 -17, S_5 -17, Z_5 -81, r_3 -11, R_1 -11, JV_5 -26. Macrosetae on leg IV : genu-26, tibia-24, basitarsus-59.

Male : Unknown.

Distribution : South China.

In addition to the above, the under mentioned species are also known but could not be included in key for reasons as mentioned for *A.(A.)* sp. on p. 14.

136. *Amblyseius (Typhlodromips) baiyunensis* Wei-nan

1984. *Amblyseius (Amblyseius) baiyunensis* Wei-nan, *Acarology*, 6(1) : 224.
(Holotype ♀, Paratype 1 ♀, South China : Baiyun Mountains, Guangzhou, on ?).

Diagnosis : Idiosoma 350-430 long, 310-340 wide. Measurements of setae : j_1 -32, z_2 -18, z_4 -18, s_4 -35, Z_1 -15, S_2 -22, S_4 -30, S_5 -31, Z_5 -67, z_5 -10, Z_4 -18, r_3 -17, R_1 -15, JV_5 -37.

Male : Unknown.

Distribution : South China.

137. *Amblyseius (Typhlodromips) draconis* (Chaudhri, Akbar & Rasool)

1979. *Typhlodromips draconis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, Univ. Agril. Faisalabad, p. 74.
(Holotype ♀, Pakistan : Mansehra, on *Inula cuspidata*, in UAF).

Diagnosis : Dorsal shield 364 long, 182 wide. Measurements of setae : j_1 -29, j_4 -21, j_5 -26, j_6 -36, J_2 -49, J_5 -13, j_3 -39, z_2 -39, z_4 -44, s_4 -52, Z_1 -57, S_2 -57, S_4 -42, Z_5 -60, z_5 -26, Z_4 -62, r_3 -39, R_1 -47. Spermatheca poculiform. Macrosetae on leg IV : genu-34, tibia-36, basitarsus-68.

Male : Unknown.

Distribution : Pakistan.

138. *Amblyseius (Typhlodromips) neoghani* Gupta

1986. *Amblyseius (Typhlodromips) neoghani* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 174.

(Holotype ♀, India : Arunachal Pradesh, Ziro, Yazuli, on undet. plant, in ZSI).

Diagnosis : Dorsal shield 358 long, 250 wide. Measurements of setae : j_1 -18, j_4 -9, j_5 -10, j_6 -12, J_2 -14, J_5 -10, j_3 -11, z_2 -7, z_4 -7, s_4 -16, Z_1 -11, S_2 -11, S_4 -11, S_5 -9, Z_5 -95, z_5 -9, Z_4 -22, r_3 , R_1 -9 each. Ventrianal shield 134 long, 118 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-31, tibia-40, basitarsus-92.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

139. *Amblyseius (Typhlodromips) oguroi* Ehara

1964. *Amblyseius oguroi* Ehara, *J. Fac. Sci. Hokkaido Univ.* (6) 15 (3) : 384-386.

(Holotype ♀, Paratype 1♂, Japan : Sendai, on *Mallotus japonicus*, in Zool. Inst. Fac. Sci. Hokk. Univ.).

1984. *Amblyseius (Amblyseius) oguroi*, Wei-nan, *Acarology* 6(1) : 222.

Diagnosis : Dorsal shield reticulate along lateral margins. Measurements of setae : j_1 -23, j_4 -9, j_5 -9, j_6 -9, J_2 -12, J_5 -7, j_3 -22, z_2 -13, z_4 -17, s_4 -24, Z_1 -12, S_2 -18, S_4 -14, S_5 -13, Z_5 -87, z_5 -10, Z_4 -60, r_3 -14, R_1 -10, JV_5 -32. Macrosetae on leg IV : genu-37, tibia-32, basitarsus-55.

Male : Dorsal setae shorter than those of males. Ehara (1964) described male in detail.

Distribution : Japan, South China.

140. *Amblyseius (Typhlodromips) repletus* Wei-nan & Zhao-Quan

1985. *Amblyseius (Amblyseius) repletus* Wei-nan & Zhao-Quan, *Acta Zootaxonomica Sinica*, 10(3) : 268-269.

(Holotype ♀, Paratypes 8♀♀ South China : Shen Nong Zia, Hubei Province, on *Rhus* sp., *Vitis adstricta* & *Prunus salicina*).

Diagnosis : Dorsal shield 310-330 long, 215-225 wide. Measurements of setae : j_1 -17, j_4 -13, j_5 -12, j_6 -12-15, J_2 -17-18, J_5 -10-11, j_3 -17, z_2 -13, z_4 -16, s_4 -17-21, Z_1 -15-16, S_2 -18-20, S_4 -16-17, S_5 -15-17, Z_5 -65-70, z_5 -12, Z_4 -12-16, r_3 -18-20, R_1 -13-16, JV_5 -22.

Male : ?

Distribution : South China.

141. **Amblyseius (Typhlodromips) sijiensis** Gupta

1986. *Amblyseius (Typhlodromips) sijiensis* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 183-185.

(Holotype ♀, India : Arunachal Pradesh, Siji, on undet. plant, in ZSI ; Paratypes 1 ♀, 1 ♂, Daporizo, on undet. plant, in ZSI).

Diagnosis : Dorsal shield 290-310 long, 170-185 wide, reticulate. Measurements of setae : j_1 -22, j_4 - j_6 -7-9 each, J_2 -11, J_5 -6, j_3 -18-21, z_2 -11-12, z_4 -13-16, s_4 -20-22, Z_1 -9-12, S_2 -16, S_4 -16-18, S_5 -16, Z_5 -75-85, z_5 -8, Z_4 -56, r_3 , R_1 -16 each. Macrosetae on leg IV : genu-24-30, tibia-20-26, basitarsus-50-66.

Male : Gupta (1986) described male.

Distribution : India (Arunachal Pradesh).

Genus **Anathia** Chaudhri, Akbar & Rasool

1979. *Anathia* Chaudhri, Akbar and Rasool, Rept. PL 480 Project, UAF, p. 48.

Type : *Anathia rancidus* Chaudhri, Akbar & Rasool, 1979.

142. **Anathia rancidus** Chaudhri, Akbar & Rasool

1979. *Anathia rancidus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project. UAF, p. 48.

(Holotype ♀, Pakistan : Lahore, on undet. plant, in UAF).

Diagnosis : Dorsal shield reticulate, 489 long, 265 wide. Measurements of setae : j_1 -39, j_2 -18, j_4 -16, j_5 -22, j_6 -18, J_2 -21, J_5 -13, j_3 -44, z_2 -21, z_4 -23, s_4 -31, Z_1 -26, S_2 -28, S_4 -23, S_5 -21, Z_5 -83, z_5 -18, Z_4 -5. Ventrianal shield pentagonal, 161 long, 133 wide, with 3 pairs of preanal setae. Macroseta on basitarsus IV-31 long.

Male : Unknown.

Distribution : Pakistan.

Genus **Indoseiulus** Ehara

1969. *Indoseius* Ghai & Menon, *Oriental Ins.*, 3 : 347.

1982. *Indoseiulus* Ehara, *Appl. Ent. Zool.*, 17 : 42-43.

Type : *Indoseius ricini* Ghai & Menon, 1969.

143. **Indoseiulus ricini** (Ghai & Menon)

1969. *Indoseius ricini* Ghai & Menon, *Oriental Ins.*, 3 : 348.

(Holotype ♀, Paratypes 8 ♀ ♀, India : Coimbatore, on *Ricinus communis*, in NPC).

1974. *Indoseius ricini*, Gupta & Dhooria, *Abstr. Indian Sci. Congr.*, 1974, p. 69.
(Punjab and Himachal Pradesh)
1977. *Indoseius ricini*, Gupta, *Indian J. Acar.*, 1 : 18.
(Gujarat : Castor ; Uttar Pradesh : Castor).
1981. *Indoseius ricini*, Gupta & Nahar, *In Contrib. to Acar. in India*, p. 10.
(Bihar : guava),
1986. *Indoseiulus ricini*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 195-196.

Diagnosis : Dorsal shield oval, 311 long, 208 wide, does not cover whole of dorsum, reticulate with 16 pairs of setae measuring j_1 -21, j_4 -8, j_5 -10, j_6 -10, J_2 -12, $J_5/8$, j_3 -10, z_2 -10, z_4 -16, s_4 -16, Z_1 -16, S_2 -16, S_5 -14, Z_5 -24, z_5 -12, Z_4 -12. Sternal, metasternal and genital shields normal. Ventrianal shield absent, only preanal setae present. Macrosetae on leg IV : genu-32, tibia-40, basitarsus-36.

Male : Unknown.

Distribution : India (Tamil Nadu, Gujarat, Bihar, Uttar Pradesh).

144. *Indoseiulus eharai* Gupta

- Indoseiulus eharai* Gupta, *Oriental Ins.* (in press).
(Holotype ♀ Paratype 1 ♀ India : Arunachal Pradesh, Khonsa, on papaya in ZSI).
1986. *Indoseiulus eharai*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 193-195.

Diagnosis : Dorsal shield 425 long, 250 wide, poorly sclerotized and highly reticulate, with 16 pairs of setae and 2-3 pairs of pores. Measurements of setae : j_1 -26, j_4 -9, j_5 .7, j_6 -11, J_2 -11, J_5 -4, j_3 -7, z_2 -10, z_4 -9, s_4 -13, Z_1 -13, S_2 -13, S^5 -14, Z_5 -22, z_5 -4, Z_4 -15, r_3 -14, R_1 -12. Ventrianal shield appears to be absent, 3 pairs of preanal setae present. Macrosetae on leg IV : genu-71, tibia-67, basitarsus-56, that on genu III-44, tibia III-33, genu II-44 ; genu I with 3 macrosetae, 44, 33, 38 long, respectively.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

Genus *Iphiseius* Berlese

1916. *Iphiseius* Berlese, *Redia*, 12 : 33.
1961. *Phytoseiulella* Muma, *Bull. Fla. St. Mus.*, 5(7) : 276.
1963. Iphiseiini Schuster & Pritchard, *Hilgardia*, 34 : 198-199.

Type : *Sejus degenerans* Berlese, 1916.

Key to the species of Iphiseius

- | | | |
|-------------------------------------|-----|--------------------|
| 1. All setae but Z_5 short | ... | <i>andamanicus</i> |
| — Z_5, Z_4, s_4 long or very long | ... | <i>bakeri</i> |

145. *Iphiseius (Iphiseius) andamanicus* Gupta

1980. *Iphiseius andamanicus* Gupta, *Entomologists' mon. Mag.*, 115 : 213-214.
(Holotype ♀, Paratypes 9 ♀ ♀, India : Andaman Isls., on *Dolichos lablab*, in ZSI).
1986. *Iphiseius (Iphiseius) andamanicus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 198-200.

Diagnosis : Dorsal shield oval, 320 long, 243 wide, smooth with 17 pairs of setae ; all being short (5-8 long) except Z_5 which is 27 long. Sternal shield as broad as long ; metasternal plates big. Ventrianal shield pentagonal, 99 long, 68 wide, constricted at anal region ; small platelets present between genital and ventrianal shields, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-11, tibia-14, basitarsus-50.

Male : Unknown.

Distribution : India (Andaman Isls.).

146. *Iphiseius (Iphiseius) hapoli* Gupta

- Iphiseius (Iphiseius) hapoli* Gupta, *Oriental Ins.*
(Holotype ♀, India : Arunachal Pradesh, Hapoli, on apple, in ZSI).
1986. *Iphiseius (Iphiseius) hapoli*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 200-201.

Diagnosis : Dorsal shield highly sclerotized with 17 pairs of setae, all being very small except Z_5, j_3, j_1 which are slightly longer and measure 12, 18, 14, respectively ; others measure 6-8 long. Ventrianal shield reticulate, 100 long, 112 wide with 3 pairs of preanal setae. No macroseta present on leg IV.

Male : Gupta (1986) described it.

Distribution : India (Arunachal Pradesh).

147. *Iphiseius (Trochoseius) bakeri* Gupta

1980. *Iphiseius bakeri* Gupta, *Entomologists' mon. Mag.*, 115 : 214-215.
(Holotype ♂, India : Andaman Isl., on arecanut, in ZSI).
1986. *Iphiseius (Trochoseius) bakeri*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 202.

Diagnosis (Known from ♂ only) : Dorsal shield 288 long, 255 wide,

highly sclerotized, reticulate, with 15 pairs of setae (j_5 , J_2 lacking), all setae small (5-10 long), excepting s_4 , Z_5 and Z_4 which measure 117, 189 and 135, respectively. Ventrianal shield reticulate with 3 pairs of preanal setae and a pair of pores. Macrosetae on leg IV : genu-54, tibia-45, basitarsus-36.

Female : Unknown.

Distribution : India (Andaman Isls.).

Genus *Paraamblyseius* Muma

1962. *Paraamblyseius* Muma, *Fla. Ent.*, 45 : 8.

Type : *Paraamblyseius lunatus* Muma, 1962.

Key to the species of Paraamblyseius

- | | | |
|---|-----|------------------|
| 1. Metasternal plate round, J_2 longer than Z_1 | ... | <i>mumai</i> |
| — Metasternal plate kidney-shaped, J_2 equal to Z_1 | ... | <i>fragariae</i> |

148. *Paraamblyseius fragariae* Gupta

1970. *Paraamblyseius* sp. Gupta, *Sci. & Cult.*, 36 : 98.

(West Bengal : strawberry).

1980. *Paraamblyseius fragariae* Gupta, *Entomologists' mon. Mag.*, 115 : 215-216.

(Holotype ♀, India : West Bengal, *Fragaria nilgerrensis*, in ZSI).

1980. *Paraamblyseius formosanus* Gupta, *Entomologists' mon. Mag.*, 115 : 35.

(Assam : Undet plant ; Manipur : Undet. plant).

1986. *Paraamblyseius fragariae*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 204-206.

Diagnosis : Dorsal shield highly sclerotized, reticulate, 320 long, 230 wide, with 17 pairs of setae measuring : j_1 -12, j_4 -14, j_5 -16, j_6 -33, J_2 -40, J_5 -12, j_3 -18, z_2 -22, z_4 -22, s_4 -33, Z_1 -28, S_2 -36, S_4 -29, S_5 -27, Z_5 -38, Z_4 -45. Sternal shield reticulate, wider than long. Ventrianal shield massive, sculptured, with 3 pairs of preanal setae and a pair of pores. Macroseta absent on leg IV.

Male : Unknown.

Distribution : India (West Bengal).

149. *Paraamblyseius formosanus* (Ehara)

1970. *Iphiseius formosanus* Ehara, *Mushi*, 43 : 59-61.

(Holotype ♀, Paratypes 2♂♂, 11♀♀, Taiwan, Kenting, on *Calamus magarilae*, in Biol. Inst. Fac. Ed. Tott. Univ.).

1976. *Iphiseius formosanus*, Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Diagnosis : Idiosoma heavily sclerotized, dorsal shield with minute pores, margins with reticulations. Measurements of setae : j_1 -11, j_4 -13, j_5 -14, j_6 -22, J_2 -27, J_5 -14, j_3 -14, z_2 -20, z_4 -23, s_4 -26, Z_1 -31, S_2 -27, S_4 -17, S_5 -15, Z_5 -29, z_5 -11, Z_4 -60. Macroseta on basitarsus IV-14 long.

Male : Ehara (1970) described it in detail.

Distribution : Taiwan, South China.

150. *Paraamblyseius mumai* Gupta

1980. *Paraamblyseius mumai* Gupta, *Entomologists' mon. Mag.*, 116 : 33-34.

(Holotype ♀, India : Meghalaya, Mawphlong, on undet. plant, in ZSI).

1986. *Paraamblyseius mumai*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 206.

Diagnosis : Dorsal shield heavily sclerotized, punctate, 325 long, 232 wide, with 17 pairs of setae. Measurements of setae : j_1 -16, j_4 -16, j_5 -16, j_6 -40, J_2 -48, J_5 -14, j_3 , z_2 -16, z_4 -20, s_4 -24, Z_1 -38, S_2 -38, S_4 -20, S_5 -17, Z_5 -32, z_5 -36, Z_4 -40. Sternal shield much wider than long. Ventrianal shield 110 long, 168 wide, with 3 pairs of preanal setae and a pair of pores. Metapodal plates large, triangular. Macroseta absent on leg IV.

Male : Unknown.

Distribution : India (Meghalaya).

Genus *Platyseiella* Muma

1961. *Platyseiella* Muma, *Bull. Fla. St. Mus.*, 5(7) : 280.

Type : *Platyseiella platypilis* Chant, 1959.

151. *Platyseiella mumai* Ray & Gupta

1981. *Platyseiella mumai* Ray & Gupta, *Bull. zool. Surv. India.*, 4(3) : 277-279.

(Holotype ♀, India : Tripura, Agartala, Amtali, on undet. plant, in ZSI).

1986. *Platyseiella mumai*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 208-210.

Diagnosis : Dorsal shield rugose, 285 long, 128 wide, with 14 pairs of setae. Setae j_4 , j_5 , j_6 , J_5 and z_5 small and simple, the remaining setae long, thick and serrate. Measurements of setae : j_1 -25, j_4 -7, j_5 -5, j_6 -5, J_5 -5, j_3 -34, z_2 -11, z_4 -9, s_4 -146, s_6 -61, Z_5 -90, z_5 -5, Z_4 -90. Ventrianal shield 100 long, 67 wide, with 3 pairs of preanal setae. Fixed digit of chelicera multidentate. Macrosetae on leg IV : genu-38, tibia-61, basitarsus-34, distitarsus-33, all being spatulate.

Male : Unknown.

Distribution : India (Tripura).

152. *Platyseiella formosanus* Tseng

1976. *Platyseiella* (*N.*) *formosanus* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Distribution : Taiwan.

Remarks : Due to nonavailability of original literature, the particulars about diagnosis, type data, etc. could not be given. This appears to be a doubtful species.

Genus *Okiseius* Ehara

1967. *Okiseius* Ehara, *Mushi*, 40 : 77.

Type : *Okiseius subtropicus* Ehara, 1967.

Key to the species of *Okiseius*

1. Incision present on dorsal shield posterior to R_1	...	<i>subtropicus</i>
— Incision absent on dorsal shield posterior to R_1	...	2
2. State j_4 and j_5 very small (6-12 microns), simple	...	3
— Setae j_4 and j_5 longer than above, serrate	...	<i>himalayana</i>
3. Ventrianal shield much more than $1\frac{1}{2}$ times as long as wide, lateral margins distinctly constricted	...	<i>yazuliensis</i>
— Ventrianal shield less than $1\frac{1}{2}$ times as long as wide, lateral margins almost straight, or only slightly constricted	...	<i>sikkimensis</i>

153. *Okiseius subtropicus* Ehara

1967. *Okiseius subtropicus* Ehara, *Mushi*, 40 : 77-78.

(Holotype ♀, Okinawa Island, Itoman, on *Hibiscus tiliaceus*, in Zool. Inst. Fac. Sci. Hokk. Univ.)

1973. *Platyseiella* (*Neoledius*) *subtropicus*, Tseng, *J. Agr. Ass. China, N. S.*, 94 : 102.

1977. *Okiseius subtropicus*, Ehara, *Rev. Pl. Prot. Res.*, 10 : 38.

Diagnosis : Dorsal shield heavily sclerotized, with 15 pairs of setae, J_2 absent ; all (except J_5) being stout, serrate, and set on tubercles. Measurements of setae : j_1 -17, j_4 -15, j_5 -16, j_6 -26, J_5 -5, r_3 -24, R_1 -24, j_3 -21, z_2 -24, z_4 -25, s_4 -29, Z_1 -33, S_2 -38, S_4 -14, Z_5 -44, z_5 -19, Z_4 -44. Ventrianal shield much longer than wide, lateral margins slightly concave with 3 pairs of preanal setae. Cervix of spermatheca short. Movable digit of chelicera with a tooth. Macrosetae on leg IV : basitarsus-15, distitarsus-13.

Male : ?

Distribution : Japan, Taiwan.

154. *Okiseius chinensis* Wei-nan

1983. *Okiseius chinensis* Wei-nan, *Entomotaxonomia*, 5 : 15.

(Holotype ♀, South China : Yunnan Province, on rubber tree, repository unknown).

Diagnosis : Measurements of setae : j_1 -17, j_3 -28, j_4 -18, j_5 -17, j_6 -22, J_5 -37, r_3 -30, R_1 -25, s_4 -37, S_2 -32, S_5 -16, z_2 -32, z_4 -32, z_5 -27, Z_1 -37, Z_4 -40, Z_5 -31, JV_5 -20.

Male : Unknown.

Distribution : South China.

155. *Okiseius himalayana* Gupta

1986. *Okiseius himalayana* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 211-213.

(Holotype ♀, India : Uttar Pradesh, Garhwal, Fata village, on an undet. shrub, in ZSI).

Diagnosis : Dorsal shield highly rugose, sclerotized, 315 long, 157 wide. Setae J_2 , S_4 absent. Measurements of setae : j_1 -10, j_4 -16, j_5 -16, j_6 -33, J_5 -7, j_3 -23, z_2 -27, z_4 -34, s_4 -38, Z_1 -40, S_2 -40, S_5 -16, Z_5 -47, z_5 -20, Z_4 -50, r_3 -27, R_1 -27. Ventrianal shield about $1\frac{1}{2}$ times as long as broad, with 3 pairs of setae. Macrosetae on leg IV : genu-indistinguishable, tibia-indistinguishable, basitarsus-16, all with spatulate tip.

Male : Unknown.

Distribution : India (Uttar Pradesh).

156. *Okiseius sikkimensis* Gupta

1986. *Okiseius sikkimensis* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 213-214.

(Holotype ♀, India : Sikkim, Nathula Road, on undet. plant, in ZSI).

Diagnosis : Dorsal shield rugose, sculptured, with 17 pairs of setae. Measurements of setae : j_1 -25, j_4 -5, j_5 -5, j_6 -9, J_5 -5, j_3 -45, z_2 36, z_4 -45, s_4 -45, Z_1 -47, S_2 -56, S_5 -18, Z_5 -83, z_5 -6, Z_4 -65, r_3 -36, R_1 -22. Ventrianal shield 105 long, 75 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-25, tibia-21, basitarsus-45, all with spatulate tip.

Male : Unknown.

Distribution : India (Sikkim).

157. *Okiseius yazuliensis* Gupta

Okiseius yazuliensis Gupta, Oriental Ins.

(Holotype ♀, India : Arunachal Pradesh, Ziro, Yazuli, on an undet. plant, in ZSI).

1986. *Okiseius yazuliensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 215-216.

Diagnosis : Dorsal shield 358 long, 212 wide, heavily sclerotized, with 16 pairs of setae. Measurements of setae : j_1 -22, j_4 - j_5 -11-12 each, j_6 -23, J_5 -7, j_3 -34, z_2 -29, z_4 -34, s_4 -40, Z_1 -35, S_2 -45, S_5 -16, Z_5 -45, z_5 -14, Z_4 -40, r_3 -33, R_1 -22. Ventrianal shield 112 long, 60 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-7, tibia-7, basitarsus-23, distitarsus-23.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

Subfamily **Phytoseiinae** Berlese

1916. Phytoseiinae Berlese, *Redia*, 12 : 11.

1961. Phytoseiinae, Muma, *Bull. Fla. St. Mus.*, 5 : 292.

1970. Phytoseiinae, Muma & Denmark, *Fla. Dept. Agr. & Con. Serv.*, 6 : 115.

Diagnosis : Dorsal shield undivided, 5-6 pairs of prolateral setae, 2 pairs of sublateral setae either on lateral integument or on dorsal shield. Ventrianal shield with 1-4 pairs of preanal setae ; 0-3 macrosetae on leg IV.

Type genus : **Phytoseius** Ribaga, 1904.

Key to the genera of Phytoseiinae

- | | | |
|--|-----|---------------------|
| 1. Both setae r_3 and R_1 on dorsal shield | ... | <i>Indodromus</i> |
| — r_3 may be on dorsal shield, R_1 if present, always on lateral integument | ... | 2 |
| 2. r_3 on dorsal shield, genu II with 7 setae, genu III with 6 setae | ... | <i>Phytoseius</i> |
| — r_3 on lateral integument, genu II with 7 or 8 setae ; genu III with 6 or 7 setae. | ... | <i>Typhlodromus</i> |

Genus **Indodromus** Ghai & Menon

1969. *Indodromus* Ghai & Menon, *Oriental Ins.*, 3 : 348-349.

Type : *Indodromus meerutensis* Ghai & Menon, 1969.

158. **Indodromus meerutensis** Ghai & Menon

1969. *Indodromus meerutensis* Ghai & Menon, *Oriental Ins.*, 3 : 349.
 (Holotype ♀, Paratypes 9♀♀, India : Uttar Pradesh, Meerut, from malformed mango samples, in NPC).
1986. *Indodromus meerutensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 217-219.

Diagnosis : Dorsal shield reticulate, with 18 pairs of setae ; setae being progressively longer posteriorly. Setae S_2 , S_4 , Z_5 , Z_4 being serrate, S_5 , J_5 being tiny ; r_3 and R_1 both on dorsal shield. Sternal shield with 2 pairs of sternal setae ; 3rd pair on interscutal membrane and 4th pair on metasternal plates. Ventrianal shield longer (92) than broad, margins irregular. Leg IV without macroseta.

Male : Unknown.

Distribution : India (Uttar Pradesh).

Genus **Phytoseius** Ribaga

1904. *Phytoseius Ribaga*, *Riv. Pat. Veg.*, 10 : 175.

Type : *Phytoseius plumifer* Canestrini & Fanzago, 1876 by subsequent designation (Vitzthum, 1941).

Key to the subgenera of Phytoseius

- | | | |
|--|-----|-------------------|
| 1. Posterior sublateral seta (R_1) present | ... | <i>Pennaseius</i> |
| — Posterior sublateral seta (R_1) absent | ... | <i>Phytoseius</i> |

Subgenus **Pennaseius** Pritchard & Baker

Key to the species of Pennaseius

- | | | |
|---|-----|----------------------|
| 1. Dorsal shield without notocephalic pores | ... | 2 |
| — Dorsal shield with notocephalic pores | ... | 3 |
| 2. z_2 and z_4 equal, both simple | ... | <i>diutius</i> |
| — z_2 shorter than z_4 , the latter serrate | ... | <i>improcerus</i> |
| 3. Dorsal shield notched at the level of r_3 | ... | 4 |
| — Dorsal shield not notched at the level of r_3 | ... | 5 |
| 4. j_3 2 times as long as z_3 | ... | <i>hongkongensis</i> |
| — j_3 about $1\frac{1}{2}$ times as long as z_3 | ... | <i>kapuri</i> |
| 5. Macrosetae on genu, tibia and basitarsus of leg IV of same length | ... | <i>minutus</i> |
| — Macrosetae on basitarsus IV much longer than those on genu and tibia IV | ... | <i>curvatus</i> |

159. *Phytoseius (Pennaseius) curvatus* Chaudhri

1973. *Phytoseius (Pennaseius) curvatus* Chaudhri, *Pak. J. Zool.*, 5 : 79-80.
(Holotype ♀, Paratypes 2♂♂, Pakistan : Sunny Bank, Murre Hills, on *Cotoneaster baccillaris*, in UAL).

Diagnosis : Dorsal shield rugose posteriorly with 15 pairs of setae and a large notocephalic pores near z_5 . Measurements of setae : j_1 -23, j_4 -8, j_5 -8, j_6 -10, J_5 -10, j_3 -49, z_2 -16, z_3 -42, z_4 -18, s_4 -88, s_6 -88, Z_5 -70, z_5 -10, Z_4 -66, r_3 -47, R_1 -13. Besides z_2 , j_4 - j_6 and z_5 , other setae serrate. Spermatheca with cervix bowl-shaped. Ventrianal shield longer than wide with 3 pairs of preanal setae. Macrosetae on leg IV : genu-16, tibia-60, basitarsus-24 ; all with slightly knobbed tip. Metapodal plates 1 paired.

Male : Unknown.

Distribution : Pakistan.

160. *Phytoseius (Pennaseius) diutius* Corpuz

1966. *Phytoseius diutius* Corpuz, *Philipp. Agric.*, 50 : 732-733.
(Holotype ♀, Philippines : Los Banos, Laguna, on *Achyranthes aspera*, in Dept. Ento. Univ. Philipp.).

Diagnosis : Dorsal shield slender, oblong, 280 long, 124 wide, with 15 pairs of setae. Setae j_1 , j_3 , z_3 , s_4 , s_6 , Z_4 , Z_5 long, thick, serrate ; other setae small. Measurements of setae : j_1 -20, j_3 -10, z_3 -44, s_4 -84, s_6 -76, Z_4 -64, Z_5 -64. Metasternal setae on plates. Ventrianal shield longer than wide, laterally constricted with 3 pairs of preanal setae, without pores. Cervix of spermatheca slender, cylindrical at basal half, the distal half widening gradually like a bell ; atrium small, swollen. Macrosetae on leg IV on genu, tibia, basitarsus and distitarsus ; tip splitted, membranous and bulbous.

Male : Unknown.

Distribution : Philippines.

161. *Phytoseius (Pennaseius) hongkongensis* Swirski & Shechter

1961. *Phytoseius (Phytoseius) hongkongensis* Swirski & Shechter, *Israel J. agric. Res.*, 11 : 99-102.
(Holotype ♀, Paratype 1♂, Hongkong : Victoria Mt. Forest, on *Heterosmilax gaudichaudiana* and 1 paratype ♀, locality same, on *Urena lobata*, all in Univ. Inst. Agr., Israel).
1976. *Phytoseius (Pennaseius) hongkongensis*, Tseng, *J. Agr. Assoc. China, N. S.*, 94 : 87 (Taiwan).

1977. *Phytoseius (Pennaseius) hongkongensis*, Ehara, *Rev. Pl. Prot. Res.*, 10 : 31.

1977. *Phytoseius (Phytoseius) hongkongensis*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 46.

(Thailand : on lime tree, green apple, *Cratoxylum*, *Ficus* sp.).

Diagnosis : Dorsal shield 264-269 long, with 16 pairs of setae. Measurements of setae : j_1 -25, j_4 - j_6 , z_5 -4-8 each, J_2 -9-12, J_5 -8-9, j_8 -64, z_2 -14, z_3 -38, z_4 -10, s_4 -102, s_6 -76, Z_5 -55, Z_4 -76, r_3 -43, R_1 -18. Ventrianal shield elongate, lateral margins concave, 79-91 long, 51-53 wide, with 3 pairs of preanal setae. Leg IV with 4 macrosetae on genu-30, tibia-32, basitarsus-24, distitarsus-26, all with broadened and divided tip. Leg chaetotactic formula : genu II $2 \frac{2}{0} \frac{2}{0} 1$, genu III $1 \frac{2}{0} \frac{2}{0} 1$.

Male : Chaetotaxy same as in female.

Distribution : Hong Kong, Taiwan, Thailand.

162. *Phytoseius (Pennaseius) improcerus* Corpuz

1966. *Phytoseius improcerus* Corpuz, *Philipp. Agric.*, 50 : 734-735.

(Holotype ♀, Philippines : Maquiling, Laguna, on *Schizostachyum lima*, in Dept. Ent. Univ. Philipp.).

Diagnosis : Dorsal shield 268 long, 118 wide, with 15 pairs of setae ; j_1 - j_3 , z_3 , s_4 , s_6 , Z_4 , Z_5 long, thick and serrate and other setae small. Peritreme extends upto s_4 . Cervix of spermatheca entirely slender, cylindrical, being thickened only for a short length at the mouth of vesicle ; vesicle oblong. Fixed digit of chelicera 2-3 teeth, movable digit unidentate.

Male : Unknown.

Distribution : Philippines.

163. *Phytoseius (Pennaseius) kapuri* Gupta

1969. *Phytoseius (Phytoseius) kapuri* Gupta, *Israel J. agric. Res.*, 17 : 115-117.

(Holotype ♀, Paratypes 2 ♀ ♀, 1 ♂, India : Howrah Botanical Garden, on *Syzygium javanica*, in ZSI).

1977. *Phytoseius (Phytoseius) kapuri*, Gupta. *Oriental Ins.*, 11 : 636.

(Andaman Isls. : Undet. plant).

1977. *Phytoseius (Phytoseius) kapuri*, Gupta, *Indian J. Acar.*, 1 : 12.

(Gujarat : Sugarcane, guava ; Rajasthan : brinjal ; Punjab : brinjal).

1977. *Phytoseius (Phytoseius) kapuri*, Gupta, *Indian J. Acar.*, 2 : 10.

(Orissa : Tendu ; Meghalaya : Undet. plant, brinjal ; Assam : *Shorea robusta*).

1980. *Phytoseius (Phytoseius) kapuri*, Gupta, *Bull. zool. Surv. India*, 3 (1 & 2) : 51.

(Pondicherry : unknown plant ; Kerala : unknown plant ; Tamil Nadu : brinjal).

1981. *Phytoseius (Phytoseius) kapuri*, Gupta & Nahar, *In Contrib. to Acar. in India*, p. 10 (Bihar : guava).
 1986. *Phytoseius (Phytoseius) kapuri*, Gupta, *Fauna of India (Acari : Mesostigmata)* Family Phytoseiidae, p. 221-223.

Diagnosis : Dorsal shield 270 long, 135 wide, notched, at the level of r_3 , with 16 pairs of setae and 4 pairs of pores, of those, the one associated with z_5 being the largest. Measurements of setae : j_1 -26, j_4 - j_6 -4-5 each, J_2 -9, J_5 -4, j_3 -65, z_2 -12, z_3 -40, z_4 -6, s_4 -14, s_6 -18, Z_5 -76, Z_4 -76, r_3 -45. Ventrianal shield 73 long, 47 wide, lateral margins concave, with 3 pairs of preanal setae. Spermatheca with funnel-shaped cervix. Macrosetae on leg IV : genu-27, tibia-30, basitarsus-24, distitarsus-24.

Male : Gupta (1969) illustrated the spermatophoral process and ventrianal shield.

Distribution : India (West Bengal, Andaman Isl., Gujarat, Rajasthan, Punjab, Orissa, Meghalaya, Assam, Pondicherry, Kerala, Tamil Nadu, Bihar).

164. *Phytoseius (Pennaseius) minutus* Narayanan, Kaur & Ghai

1960. *Phytoseius minutus* Narayanan, Kaur & Ghai, *Proc. natn. Inst. Sci., India*, 26B(6) : 391-392.
 (Described from 7 ♀♀, 5 ♂♂, New Delhi, on *Hibiscus esculentus*. No mentioning has been made about sexes of types, all in NPC).
 1970. *Phytoseius (Phytoseius) minutus*, Gupta, *Sci. & Cult.*, 36 : 98.
 (West Bengal : lady's finger).
 1974. *Phytoseius (Dubininellus) minutus*, Gupta & Dhooria, *Abstr. Indian Sci. Congr.*, 1974 : 69.
 (Punjab : Himachal Pradesh).
 1986. *Phytoseius (Pennaseius) minutus*, Gupta, *Fauna of India (Acari : Mesostigmata)* Family Phytoseiidae, p. 223-225.

Diagnosis : Dorsal shield smooth, with 16 pairs of setae and 8 pairs of small pores, the one associated with z_5 being the largest ; setae j_4 , j_5 , j_6 , J_2 , J_5 , z_5 , z_2 , z_4 small, smooth ; other setae long and serrate. Measurements of setae : j_1 -30, j_4 -4, j_5 -3, j_6 -5, J_2 -8, J_5 -5, j_3 -71, z_2 -17, z_3 -52, z_4 -6, s_4 , s_6 -86 each, Z_5 -83, Z_4 -79, r_3 -49. Ventrianal shield longer than wide, with 3 pairs of preanal setae. Spermatheca slender, cervix with bulbous atrium. Macrosetae on leg IV : genu-30, tibia-28, basitarsus-27.

Male : Dorsal chaetotaxy similar to female but setae being shorter.

Distribution : India (New Delhi, Punjab, Himachal Pradesh, West Bengal),

In addition to the above species, the following are also known but could not be included in key for the reasons as given for *Amblyseius* (*Amblyseius*) spp. on p. 14.

165. **Phytoseius (Pennaseius) incisus** Wei-nan & Zhao-Quan

1984. *Phytoseius (Phytoseius) incisus* Wei-nan & Zhao-Quan, *Acta Entomologica Sinica*, 27(4) : 457-458.

(Holotype ♀, Paratypes 1♂, 4♀ ♀, South China : Neng Gang, Guangxi, on *Firmiana simplex*).

Diagnosis : Dorsal shield 268-270 long, 140-145 wide. Measurements of setae : j_1 -23-26, j_3 -37-40, j_4 -5, j_5 -5, j_6 -7, J_5 -6, z_2 -7, z_3 -25, z_4 -12, z_5 -5, Z_4 -77-80, Z_5 -68-70, s_4 -92-97, s_6 -66-67, r_3 -33-37, R_1 -12, JV_5 -40-43.

Male : Unknown.

Distribution : South China.

166. **Phytoseius (Pennaseius) amba** Pritchard & Baker

1962. *Phytoseius (Pennaseius) amba* Pritchard & Baker, *Hilgardia*, 33(7) : 224-226.

(Holotype ♀, Belgian Congo, on *Tithonia speciosa*, in USNM. Paratypes 3♀ ♀, Belgian Congo, Kysenyi, on *Pycnostachus* sp. ; 1♀, same locality, on Pholox ; 1♀, Ruanda Urundi, on Cherimoya ; 1♀, on Bixa ; 1♂, 1♀, Ruwinzori, on *Hoslundia opposita* ; 7♀ ♀, same locality and habitat, in USNM).

1976. *Phytoseius (Ptenoseius) amba*, Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Diagnosis : Dorsal shield with 16 pairs of setae. Idiosoma 259 long, 126 wide. Measurements of setae : j_1 -25, j_4 - j_6 , J_2 -7 each, J_5 -12, j_3 -42, z_2 -7, z_3 -16, z_4 -13, s_4 -79, s_6 -57, Z_5 -79, z_5 -7, Z_4 -55, r_3 -39, R_1 -16. Ventrianal shield with 3 pairs of preanal setae, lateral sides concave. Leg IV with macrosetae on genu-15, tibia-20, basitarsus-27.

Male : Pritchard & Baker (1962) described it.

Distribution : Belgian Congo, Taiwan.

167. **Phytoseius (Pennaseius) namdaphaensis** Gupta

Phytoseius (Pennaseius) namdaphaensis Gupta, *Oriental Ins.* (In Press).

(Holotype ♀, Paratypes 2♀ ♀, India : Arunachal Pradesh, Namdapha Sanctuary Area, on an undet. plant, in ZSI).

1986. *Phytoseius (Pennaseius) namdaphaensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 225-227.

Diagnosis : Dorsal shield smooth, 302 long, 145 wide, with 14 pairs of setae. Measurements of setae : j_1 -24, j_4 - j_6 , J_5 -very small,

j_3 -49, z_2 -9, z_3 -22, z_4 -15, s_4 -95, s_6 -72, Z_5 -71, z_5 -small, Z_4 -80. Ventrianal shield 100 long, 56 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-24, tibia-56, basitarsus-17, all with broad tip.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

168. *Phytoseius* (*Pennaseius*) *taianensis* Lai-rong & Li-sheng

1981. *Phytoseius taianensis* Lai-rong & Li-sheng, *Entomotaxonomia*, 3(3) : 237.

(Holotype ♀, Paratypes 2 ♀ ♀, South China : Tian, Shandong Province, on an undet. plant).

Diagnosis : Dorsal shield 306 long, 154 wide. Measurements of setae : j_1 -27, j_3 -38, j_4 -6, j_5 -5, j_6 -6, J_5 -6, z_2 -12, z_3 -31, z_4 -18, z_5 -5, Z_4 -46, Z_5 -74, s_4 -67, s_6 -71, r_3 -41, R_1 -17, JV_5 -50. Macrosetae on tibia IV-61, basitarsus IV-24.

Male : Unknown.

Distribution : South China.

Subgenus *Phytoseius* Ribaga

Key to the species of *Phytoseius*

1. Macrosetae absent on leg IV	...	...	<i>intermedius</i>
— Macrosetae present on leg IV	...	...	2
2. s_4 and Z_4 large, flat and divided	...	...	3
— s_4 and Z_4 not flat and divided	...	...	4
3. r_3 longer than j_3	...	...	<i>crinitus</i>
— r_3 and j_3 equal	...	...	<i>neoferox</i>
4. Genu IV without macroseta	...	...	5
— Genu IV with macroseta	...	...	10
5. Macroseta on basitarsus IV subequal to that of tibia IV	...	...	<i>macrosetosus</i>
— Macroseta on basitarsus IV smaller than that of tibia IV	...	...	6
6. Macroseta on tibia IV as long as segment...	...	...	7
— Macroseta on tibia IV shorter than that of segment ...	...	...	8
7. z_2 and z_4 shorter, smooth	...	...	<i>roseus</i>
— z_2 and z_4 longer and serrate	...	...	<i>mixtus</i>
8. Cervix of spermatheca cylindrical	...	...	9
— Cervix of spermatheca gradually enlarging towards mouth	...	...	<i>mansehraensis</i>
9. Cervix of spermatheca 2 times as long as wide	...	...	<i>neocorniger</i>
— Cervix as long as or only slightly longer than wide ...	...	...	<i>jujuba</i>
10. s_4 longer than s_6	...	...	19
— s_4 as long as or shorter than s_6	...	...	11

11. j_3 only slightly longer than z_2	12
— j_3 much longer than z_2	13
12. Posterior margin of sternal shield lobed	<i>brevicrinis</i>
— Posterior margin of sternal shield straight	<i>meyerae</i>
13. Z_5 longer than Z_4	16
— Z_5 shorter or equal to Z_4	14
14. Macroseta on genu IV very small, about 1/4 the length of that of basitarsus IV	<i>rimandoi</i>
— Macroseta not as above	15
15. Cervix of spermatheca broad towards atrium	<i>jaunpurensis</i>
— Cervix of spermatheca narrowed towards atrium	<i>punjabensis</i>
16. Macroseta on genu IV and basitarsus IV equal	<i>indicus</i>
— Macroseta on genu IV and basitarsus IV unequal	17
17. Cervix of spermatheca uniformly cylindrical	<i>swirskii</i>
— Cervix of spermatheca not uniformly cylindrical	18
18. Cervix bell-shaped	<i>coheni</i>
— Cervix elongated, widening at the mouth	<i>huangi</i>
19. s_6 , Z_5 and Z_4 almost equal or subequal	20
— s_6 , Z_5 and Z_4 unequal	22
20. Macroseta on genu IV and basitarsus IV equal	21
— Macrosetae on genu IV and basitarsus IV unequal	<i>macropilis</i>
21. Cervix of spermatheca Y-shaped	<i>bandipurensis</i>
— Cervix of spermatheca as shallow arc	<i>glareosus</i>
22. Macrosetae on leg IV spatulate	24
— Macrosetae on leg IV not spatulate	23
23. z_4 $1\frac{1}{2}$ times as long as z_2	<i>wainsteini</i>
— z_4 as long as z_2	<i>corniger</i>
24. s_4 much longer than s_6	25
— s_4 only slightly longer than s_6	<i>hawaiiensis</i>
25. Macroseta on tibia IV 4 times as long as that on genu IV	26
— Macroseta on tibia IV 2 times as long as that on genu IV	<i>rachelae</i>
26. Macroseta on leg IV bulbous	<i>rasilis</i>
— Macroseta on leg IV with hyaline membrane	<i>spathulatus</i>

169. *Phytoseius (Phytoseius) bandipurensis* Gupta

1980. *Phytoseius (Dubininellus) bandipurensis* Gupta, *Bull. zool. Surv. India*, 3(1-2) : 53-54.

(Holotype ♀, India : Karnataka, Bandipur Sanctuary, on undet. plant, in ZSI).

1986. *Phytoseius (Phytoseius) bandipurensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 229-230.

Diagnosis : Dorsal shield heavily sculptured with 15 pairs of setae ; j_1 very close to each other. Measurements of setae : j_1 -24, j_3 -28 z_2 and z_4 -8 each, z_3 -28, s_4 -88, s_6 -56, Z_5 -64, Z_4 -72, r_3 -36. Ventrianal

shield short, lateral margins deeply concave with 3 pairs of preanal setae. Spermatheca with a Y-shaped cervix and a long duct. Fixed digit of chelicera with 2 teeth, none on movable digit. Macrosetae on leg IV : genu-18, tibia-40, basitarsus-14, distitarsus-20 ; all with spatulate tip.

Male : Unknown.

Distribution : India : Karnataka.

170. *Phytoseius (Phytoseius) brevicrinis* Swirski & Shechter

1961. *Phytoseius (Dubininellus) brevicrinis* Swirski & Shechter, *Israel J. agric. Res.*, 11(2) : 106-108.

(Holotype ♀, Hong Kong : Tai Po, on *Bambusa*, sp., Paratype 1 ♀, Hong Kong, Sha Tin, on *Bambusa*, all in Univ. Inst. Agr., Israel).

1977. *Phytoseius (Phytoseius) brevicrinis*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 46-48.

(Redescribed ♀, and described male for first time-Thailand, on bamboo).

Diagnosis : Dorsal shield rugose, j_1 , r_3 , s_5 , s_6 and Z_5 stout, strongly serrate, Z_4 stout, narrower than Z_5 , weakly serrate, j_3 , z_3 and z_4 smaller, more or less serrate others smooth, small. Measurements of setae : j_1 -22, j_4 -10, j_5 -9, j_6 -11, J_5 -7, r_3 -30, j_3 -14, z_2 -11, z_3 -18, z_4 -38, s_6 -41, Z_5 -44, z_5 -11, Z_4 -42. Ventrianal shield much longer than wide, lateral margins concave, with 3 pairs of preanal setae. Fixed digit of chelicera with 3 subapical and 1 middle tooth, movable digit with 1 tooth. Chaetotactic formula of leg : genu II 2 $\frac{2}{0}$ $\frac{2}{0}$ 1, genu III 1 $\frac{2}{0}$ $\frac{2}{0}$ 1. Leg IV with macrosetae on genu-8, tibia-30, basitarsus-19, distitarsus-19, all with hyaline envelope.

Male : Chaetotaxy same as in female.

Distribution : Hong Kong, Thailand.

171. *Phytoseius (Phytoseius) coheni* Swirski & Shechter

1961. *Phytoseius (Dubininellus) macropilis coheni* Swirski & Shechter, *Israel J. agric. Res.*, 11(3-4) : 104-106.

(Holotype ♀, Paratypes 11 ♀♀, Hong Kong : on Pomelo, in Univ. Inst. Agr. Israel).

1970. *Phytoseius (Dubininellus) coheni*, Gupta, *Sci. & Cult.*, 36 : 98.

(West Bengal on *Diploknema butyracea*)-misidentification.

1971. *Phytoseius coheni*, Gupta et al., *Sci. & Cult.*, 37 : 298.

(India : Punjab, on guava, feeding upon *Brevipalpus* sp.)-misidentification.

1976. *Phytoseius (Dubininellus) coheni*, Lo, *Bull. Sun-Yat-Sen Cult. Found.*, No. 5 : 52-54.

(Taiwan : Tai Pai on citrus, guava).

Diagnosis : Dorsal shield 295 long, 180 wide, well sclerotized, rugose, with 15 pairs of setae, setae j_1 , j_4 , j_5 , z_5 and J_5 short and smooth. Measurements of setae : j_1 -29, j_4 -7, j_5 -6, j_6 -9, J_5 -8, z_5 -8, j_3 -28, z_2 -14, z_3 -29, z_4 -15, s_4 -90, s_6 -82, Z_5 -10, Z_4 , r_3 -41 each. Metasternal setae on metasternal plates. Ventrianal shield longer than wide, with 3 pairs of preanal setae. Spermatheca with bell-shaped cervix and slightly enlarged atrium.

Male : Chaetotaxy similar to that of female. Spermatophoral process with shaft $1\frac{1}{2}$ times as long as foot.

Distribution : Hong Kong, Taiwan.

172. *Phytoseius (Phytoseius) corniger* Wainstein

1959. *Phytoseius (Dubininellus) corniger* Wainstein, *Zool. Zh. Ukr.*, 38 : 1362-1364.
(Holotype and Paratype not mentioned in original publication. However, types were from the following localities : Tadzikistan, South Kazakhstan, Shelkovitsa, Inzhir, Isblonia, Vinograd).
1966. *Phytoseius (Dubininellus) corniger*, Denmark, *Fla. Dept. Agr. Bull.*, 6 : 85-86.
(Pakistan : Behrain, on fig leaves).
1986. *Phytoseius (Phytoseius) corniger*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 230-232.

Diagnosis : Dorsal shield 260 long, 140 wide, rugose with 14 pairs of setae. Measurements of setae : j_1 -28, j_3 -48, z_3 -32, z_2 , z_4 -12 each, s_4 -128, s_6 -27, Z_5 -64, Z_4 -84. Ventrianal shield elongate, narrow, lateral margins deeply concave with 3 pairs of preanal setae. Fixed digit of chelicera with 3 teeth, movable digit with one tooth. Spermatheca with elongate cervix and a fairly long and broad duct. Macrosetae on leg IV : tibia-34, basitarsus-23.

Male : Chaetotaxy shorter than female. Shaft of spermatophoral process $1\frac{1}{2}$ times as long as foot.

Distribution : Pakistan, USSR.

173. *Phytoseius (Phytoseius) crinitus* Swirski & Shechter

1961. *Phytoseius (Dubininellus) crinitus* Swirski & Shechter, *Israel J. agric. Res.*, 11(2) : 102-104.
(Holotype ♀, Paratypes 13 ♀♀, Hong Kong : Victoria, Mt. forest, on *Homalium conchinchinense*, in Univ. Inst. Agr., Israel).
1983. *Phytoseius (Phytoseius) crinitus*, Ray and Gupta, *Rec. zool. Surv. India*, 80 : 303-304.
(Assam : on undet. plant)-Redescribed.
1986. *Phytoseius (Phytoseius) crinitus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 232-234.

Diagnosis : Dorsal shield 280 long, 168 wide, with 15 pairs of setae. Measurements of setae : j_1 -29, j_4 - j_6 , z_5 , J_5 -4-5 each, j_3 -40, z_2 -18, z_3 -31, z_4 -11, s_4 -10, s_6 -67, Z_5 -65, Z_4 -83, r_3 -38. Ventrianal shield longer (90) than wide (56), with 3 pairs of preanal setae. Fixed digit of chelicera 2-dentate, movable digit 1-dentate. Macrosetae on leg IV : genu-31, tibia-50, basitarsus-27, distitarsus-22, all being spatulate.

Male : Unknown.

Distribution : India : Assam, Hong Kong.

174. *Phytoseius (Phytoseius) glareosus* Corpuz

1966. *Phytoseius glareosus* Corpuz, *Philipp. Agric.*, 50 : 738.

(Holotype ♀, Philippines : College campus, Los Banos, Laguna, on *Oryza sativa*, in Dept. Ento., Univ. Philip.)

Diagnosis : Dorsal shield coarsely pebblicate, 288 long, 160 wide, with 15 pairs of setae, except z_2 , j_4 - j_5 , J_5 , other setae thick, long and serrate. Ventrianal shield longer than wide, slightly constricted laterally at midway, with 3 pairs of preanal setae. Spermatheca with cup-shaped cervix. Fixed digit of chelicera multidentate, movable digit unidentate. Macrosetae on leg IV present on genu, tibia, basitarsus and distitarsus, all strongly bulbous at tips.

Male : Unknown.

Distribution : Philippines.

175. *Phytoseius (Phytoseius) hawaiiensis* Prasad

1968. *Phytoseius hawaiiensis* Prasad, *Ann. ent. Soc. Am.*, 61 : 1460.

(Holotype ♀, U. S. A. : Oahu, Hawaii, *Poinsettia* leaf, in B. P. Bishop Museum., Honolulu. Paratypes : in BM (NH) ; BP. Bishop Museum : Canadian Nat. Coll ; Univ. Hawaii ; Inst. Acarology ? Wooster, Ohio ; US Nat. Mus., ZSI (Number and sex of specimens sent in different Museums not specified by author in original publication).

1977. *Phytoseius (Phytoseius) hawaiiensis*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 48-49.

(Thailand on *Alangium salvifolium*, *Pinus kesiya*, *Bridelia* sp., *Bridelia retusa*, *Coleus blumei*), (Redescribed ♀, ♂ described for first time).

Diagnosis : Dorsal shield rugose, with 2 pairs of conspicuous proes. Setae s_4 , s_6 , Z_5 , Z_4 and r_3 , stout, strongly serrate ; j_1 , j_3 , z_2 , z_3 and z_4 serrate, z_2 , z_4 small. Measurements of setae : j_1 -26, j_4 -9, j_5 -9, j_6 -10, J_2 -9, r_3 -36, j_3 -22, z_2 -13, z_3 -28, z_4 -13, s_4 -80, s_6 -67, Z_5 -61, z_5 -10, Z_4 -53. Ventrianal shield much longer than wide, narrower than genital

shield, lateral margins concave, with 3 pairs of preanal setae and a pair of pores. Chaetotactic formula : genu II $2 \frac{2}{0} \frac{2}{0} 1$. Macrosetae on leg IV : genu-21, tibia-4, basitarsus-23, distitarsus-21, all with hyaline tip.

Male : Ehara & Bhandhufalck (1977) described it.

Distribution : Hawaii, Thailand.

176. *Phytoseius (Phytoseius) huangi* Ehara

1970. *Phytoseius (Phytoseius) huangi* Ehara, *Mushi*, 43(6) : 62.

(Holotype ♀, Taiwan : Fengshan, on *Pithecolobium dulce*, in *Biol. Inst. Fac. Ed. Tott. Univ.*).

Diagnosis : Dorsal shield 275 long, 150 wide, with 15 pairs of setae. Measurements of setae : j_1 -24, j_4 - j_6 , J_5 -7-10 long, j_3 -22, z_2 -13, z_3 -26, z_4 -9, s_4 -75, s_6 -13, Z_5 -60, Z_4 -51. Ventrianal shield elongate, lateral margins constricted with 3 pairs of preanal setae. Fixed digit of chelicera with 3 teeth, movable digit with one tooth. Macrosetae on leg IV : genu-15, tibia-38, basitarsus-22.

Male : Unknown.

Distribution : Taiwan.

177. *Phytoseius (Phytoseius) intermedius* Evans & Macfarlane

1962. *Phytoseius (Dubininellus) intermedius* Evans & Macfarlane, *Ann. Mag. nat. Hist.*, (13)4 : 587-588.

(Holotype ♀, Paratypes 2 ♀ ♀, South Rhodesia : Mazoe, on Aloe ; all in BM(NH)).

1966. *Phytoseius (Dubininellus) intermedius*, Denmark, *Fla. Dept. Agr. Bull.*, 6 : 70-72. (Pakistan : papaya).

1970. *Phytoseius (Dubininellus) intermedius*, Gupta, *Sci. & Cult.*, 36 : 98. (West Bengal : Undet. plant).

1977. *Phytoseius (Dubininellus) intermedius*, Gupta, *Oriental Ins.*, 11 : 636-637. (Andaman Isl. : Uundet. plant).

1986. *Phytoseius (Phytoseius) intermedius*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 236-238.

Diagnosis : Dorsal shield 275 long, 150 wide, with 15 pairs of setae. Measurements of setae : j_1 -22, j_4 - j_6 , J_5 -5-7 each, j_3 -22, z_2 -18, z_3 -31, z_4 -13, s_4 -54, s_6 -72, Z_5 -54, z_5 -5, Z_4 -76. Sternal, metasternal and genital shields normal. Ventrianal shield 76 long, 45 wide, with 3 pairs of preanal setae. Macrosetae absent on leg IV Spermatheca with bell-shaped cervix.

Male : Denmark (1966) described it.

Distribution : India (West Bengal), Pakistan, South Rhodesia.

178. *Phytoseius (Phytoseius) jujuba* Gupta

1977. *Phytoseius (Dubininellus) jujuba* Gupta, *Indian J. Acar.*, 1 : 13.
(Holotype ♀, India : Gujarat, *Zizyphus jujuba*. Paratypes 3 ♀♀, 1 ♂, same data as for holotype, all in ZSI).
1986. *Phytoseius (Phytoseius) jujuba*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 238.

Diagnosis : Dorsal shield 270 long, 130 wide, with 15 pairs of setae, all the setae being minute measuring 5-6, except j_3 , z_3 , s_4 , Z_5 , Z_4 , r_3 which measure 36, 33, 66, 69, 72 and 40, respectively. Sternal and genital shields normal, metasternal plates absent. Ventrianal shield longer (68) than wide. Spermatheca with flask-shaped cervix and elongate duct. Macrosetae on leg IV : genu-nil, tibia-36, basitarsus-20.

Male : Gupta (1977) collected male but did not describe it.

Distribution : India (Gujarat).

179. *Phytoseius (Phytoseius) macropilis* (Banks)

1909. *Sejus macropilis* Banks, *Proc. ent. Soc. Wash.*, 11 : 135.
(Holotype ♀, Canada : Guelph, Ontario, attacking *Eriophyes* sp., on willow, in USNM).
1953. *Phytoseius macropilis*, Cunliffe & Baker, *Pinellas Biol. Lab. Pub. No. 1* : 22.
1960. *Phytoseius macropilis*, Narayanan, Kaur & Ghai, *Proc. natn. Inst. Sci. India*, 26 B(6) : 386-387.
(New Delhi : on fig, mulberry, Compositae, *Lantana camara*).
1970. *Phytoseius (Dubininellus) woodburyi*, Gupta, *Sci. & Cult.*, 36 : 98.
1974. *Phytoseius macropilis*, Gupta, *Ent. Rec.*, 86 : 143.
1977. *Phytoseius (Dubininellus) macropilis*, Gupta, 1977, *Indian J. Acar.*, 1 : 9.
(Orissa : *Shorea robusta*).
1982. *Phytoseius (Dubininellus) woodburyi*, Gupta, *Indian J. Acar.*, 6 : 32.
1986. *Phytoseius (Phytoseius) macropilis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 240-242.

Diagnosis : Dorsal shield rugose, 280 long, 150 wide, with 15 pairs of setae. Measurements of setae : j_1 -23, j_4 , j_6 , z_5 , j_5 minute (5-6 each), j_3 -36, z_2 -5, z_3 -25, z_4 -5, s_4 -100, s_6 -76, Z_5 -70, Z_4 -70, r_3 -44. Sternal, metasternal and genital shields normal. Ventrianal shield elongate, vase-shaped, lateral margins concave, 80 long 52 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : genu-20, tibia-48, basitarsus-32.

Male : Denmark (1966) described it.

Distribution : India (Andhra Pradesh, Orissa, New Delhi) ; Canada ; and many other parts of the world (Gupta, 1986).

180. *Phytoseius (Phytoseius) macrosetosus* Gupta

1977. *Phytoseius (Dubininellus) macrosetosus* Gupta, *Indian J. Acar.*, 1 : 15-16.
(Holotype ♀, Paratype 1 ♀, India : Madhya Pradesh, Shivpuri, on Tendu, all in ZSI).
1986. *Phytoseius (Phytoseius) macrosetosus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 242.

Diagnosis : Dorsal shield 265 long, 130 wide, with 15 pairs of setae. Measurements of setae : j_1 -20, j_4 , j_6 , J_5 , z_5 -5 each, j_3 -36, z_2 -16, z_3 -32, z_4 -24, s_4 -62, s_6 -64, Z_5 -50, Z_4 -52, r_3 -32. Sternal and genital shields normal. Metasternal plate absent. Ventrianal shield 56 long, 40 wide, with 3 pairs of preanal setae, lateral sides concave. Macrosetae on leg IV : genu-nil, tibia-18, basitarsus-20, both with spatulate tip.

Male : Unknown.

Distribution : India (Madhya Pradesh).

181. *Phytoseius (Phytoseius) mansehraensis* Chaudhri

1973. *Phytoseius (Phytoseius) mansehraensis* Chaudhri, *Pak. J. Zool.*, 5(1) : 85-86.
(Holotype ♀, Pakistan : 2 miles south of Mansehra, on *Inula cuspidata*, in UAL).

Diagnosis : Dorsal shield rugose, with a pair of pores near z_5 and posterior to s_6 laterally, with 15 pairs of setae. Measurements of setae : j_1 -34, j_4 - j_6 , z_5 , J_5 -minute, j_3 -55, z_2 -16, z_3 -34, z_4 -23, s_4 -127, s_6 73, Z_5 -83, Z_4 -86, r_3 -47. All setae except z_2 , j_4 - j_6 , J_5 , z_5 serrate. Ventrianal shield longer than wide, with 3 pairs of preanal setae and a pair of pores. Spermatheca with cervix funnel-shaped. Macrosetae on leg IV : genu-absent, tibia-52, basitarsus-26, all blunt.

Male : Unknown.

Distribution : Pakistan.

182. *Phytoseius (Phytoseius) meyeræ* Gupta

1977. *Phytoseius (Dubininellus) meyeræ* Gupta, *Indian J. Acar.*, 2 : 7.
(Holotype ♀, India : Meghalaya, Tura, on weed ; Paratypes 1 ♂, same data as for holotype. 1 ♀, Assam, Gossaigaon, banana, all in ZSI).
1986. *Phytoseius (Phytoseius) meyeræ*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 244-245.

Diagnosis : Dorsal shield rugose, 260 long, 170 wide, with 15 pairs of setae, all being thin, gently serrate. Measurements of setae : j_1 -20, j_4 - j_6 , J_5 , z_5 -8 each, j_3 -20, z_2 -12, z_3 -20, z_4 -20, s_4 -20, s_6 -60, Z_5 -37,

r_3 -28, Z_4 -44. Sternal and genital shields normal. Ventrianal shield 72 long, 50 wide, with 3 pairs of preanal setae. Spermatheca with thick flask-shaped cervix. Macrosetae on leg IV : genu-7, tibia-36, basitarsus-20, all with spatulate tip.

Male : Gupta (1977) illustrated its spermatophoral process.

Distribution : India (Assam, Meghalaya).

183. *Phytoseius (Phytoseius) mixtus* Chaudhri

1973. *Phytoseius (Phytoseius) mixtus* Chaudhri, *Pak. J. Zool.*, 5(1) : 83-85.
(Holotype ♀, Pakistan : North of Haripur, on mulberry, in UAL).
1983. *Phytoseius (Phytoseius) mixtus*, Ray & Gupta, *Rec. zool. Surv. India*, 80(3-4) : 301-302.
(Redescribed) (Uttar Pradesh, on grass)
1986. *Phytoseius (Phytoseius) mixtus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 246.

Diagnosis : Dorsal shield rugose, 250 long, 135 wide, with 15 pairs of setae and a few pairs of pores. Measurements of setae : j_1 -29, j_4 - j_6 , J_5 , 4-5 each, j_8 -56, z_2 -16, z_3 -36, z_4 -20, s_4 -130, s_6 -78, z_5 -5, Z_5 -72, Z_4 -95, r_3 -52, ; Z_4 thicker than Z_5 . Ventrianal shield longer than wide with constriction little below the level of 3rd pair of preanal setae. Fixed digit of chelicera with 2 teeth anterior to *pilus dentilis*, movable digit with 1 tooth. Spermatheca with tubular cervix and knobbed atrium, major duct long. Macrosetae on leg IV : tibia-56, basitarsus-31, distitarsus-31.

Male : Unknown.

Distribution : India (Uttar Pradesh), Pakistan.

184. *Phytoseius (Phytoseius) indicus* Bhattacharyya

1969. *Phytoseius (Phytoseius) indicus* Bhattacharyya, *J. Bom. Nat. Hist. Soc.*, 65(3) : 679-680,
(Holotype ♀, India : W, Bengal, Sonarpur, Sitala, on *Hibiscus* sp., in ZSI ?)
1969. *Phytoseius (Dubininellus) neglecta* Gupta, *Israel. J. agric. Res.*, 19 : 117-119.
(West Bengal : *Saraca indica*).
1974. *Phytoseius (Dubininellus) neglecta*, Gupta & Dhooria. *Proc. Indian Sci. Congr.*, 61 : 69.
1974. *Phytoseius neglecta*, Prasad, A catalogue of mites of India, p. 172.
1974. *Phytoseius indicus*, Prasad, A catalogue of mites of India, p. 312.
1986. *Phytoseius (Phytoseius) indicus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 234-236.

Diagnosis : Dorsal shield 299 long, 145 wide, rugose, with 15 pairs of setae. Setae j_4 - j_6 , J_5 , z_2 , z_4 , z_5 short and simple, other setae being long, thick and serrate. Measurements of setae : j_1 -27, j_3 -27, z_3 -29, s_4 -72, s_6 -72, Z_5 -50, Z_4 -65, r_3 -36. Ventrianal shield twice as long as broad, with 3 pairs of preanal setae. Spermatheca with cup-shaped cervix. Macrosetae on leg IV : genu-18, tibia-40, basitaruss-18, distitarsus-22.

Male : Unknown.

Distribution : India (West Bengal).

185. *Phytoseius (Phytoseius) neocorniger* Gupta

1977. *Phytoseius (Dubininellus) neocorniger* Gupta, *Indian J. Acar.*, 1 : 13-15.

(Holotype ♀, India : Rajasthan, Pratapgarh, on *Lantana*. Pratypes 2 ♀ ♀, same data as for holotype, in ZSI).

1986. *Phytoseius (Phytoseius) neocorniger*, Gupta, Fauna of India Acari : Mesostigmata) Family Phytoseiidae, p. 248.

Diagnosis : Dorsal shield highly sclerotized, 284 long, 155 wide, with 15 pairs of setae. Excepting setae j_4 - j_6 , J_5 , z_2 , z_4 , z_5 , which are small, other setae thick and serrate. Measurements of setae : j_1 -28, j_3 -44, z_2 -12, z_3 -33, z_4 -12, s_4 -120, s_6 -80, Z_5 -70, Z_4 -75, r_3 -40. Sternal and genital shields normal ; metasternal plates absent. Ventrianal shield 60 long, 40 wide, constricted at preanal region with 3 pairs of preanal setae. Spermatheca with tubular flask-shaped cervix. Macrosetae on leg IV : genu-nil, tibia-40, basitarsus-26.

Male : Unknown.

Distribution : India (Rajasthan).

186. *Phytoseius (Phytoseius) neoferox* Ehara & Bhandhufalck

1977. *Phytoseius (Phytoseius) neoferox* Ehara & Bhandhufalck, *J. Fac. ed. Tottori Univ. Nat. Sci.*, 27(2) : 49-50.

(Holotype ♀, Thailand, Fang, on persimmon, in Biol. Inst. Fac. Ed. Tott. Univ. Paratype 1 ♀, same locality, on coffee ; repository-not specified).

1986. *Phytoseius (Phytoseius) neoferox*, Gupta, Fauna of India (Acari ; Mesostigmata) Family Phytoseiidae, p. 250.

Diagnosis : Dorsal shield rugose, pores present behind z_5 with 15 pairs of setae ; j_1 , j_3 , z_3 , s_4 , s_6 , Z_5 , Z_4 and r_3 stout and serrate and r_3 divided, other setae small. Measurements of setae : j_1 -28, j_4 -4, j_5 -4, j_6 -5, j_3 -38, z_2 -12, z_3 -26, z_4 -9, s_4 -93, s_6 -69, Z_5 -63, z_5 -4, Z_4 -74. Ventrianal shield much longer than wide, lateral margins constricted at preanal

level with 3 pairs of preanal setae and a pair of pores. Spermatheca with cervix tubular. Macrosetae on leg IV : genu-22, tibia-44, basitarsus-23, distitarsus-21.

Male : Unknown.

Distribution : Thailand.

187. *Phytoseius (Phytoseius) punjabensis* Gupta

1977. *Phytoseius (Dubininellus) punjabensis* Gupta, *Indian J. Acar.*, 1 : 16.

(Holotype ♀, India : Punjab, on fig, in ZSI).

1982. *Phytoseius (Phytoseius) jaunpurensis* Gupta, *Rec. zool. Surv. India*, 79 : 367-368.

(Uttar Pradesh : Jaunpur, on *Zizyphus jujuba*).

1986. *Phytoseius (Phytoseius) punjabensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 252-253.

Diagnosis : Dorsal shield rugose, 275 long, 140 wide, with 15 pairs of setae. Setae j_1 , j_3 , z_3 , s_4 , s_6 , Z_5 , r_3 , Z_4 being long, thick and serrate, other setae minute and simple. Measurements of setae : j_1 -24, j_3 -48, z_3 -32, z_4 -10, s_4 -97, s_6 -97, Z_5 -64, Z_4 -72, r_3 -44. Ventrianal shield 76 long, 98 wide, with 3 pairs of preanal setae. Spermatheca with elongate funnel-shaped cervix. Macrosetae on leg IV : genu-16, tibia-36, basitarsus-24.

Male : Unknown.

Distribution : India (Punjab).

188. *Phytoseius (Phytoseius) rachelae* Swirski & Shechter

1961. *Phytoseius (Dubininellus) rachelae* Swirski & Shechter, *Israel J. agric. Res.*, 11 : 108-109.

(Holotype ♀, Hong Kong : on *Rhus chinensis*. Paratypes 2 ♀ ♀, Hong Kong, on *Glochidion criocarpum*, in Univ. Inst. Agr., Israel).

1980. *Phytoseius (Dubininellus) rachelae*, Gupta, *Bull. zool. Surv. India*, 3(1-2) : 52.

(Kerala : *Hibiscus*).

1986. *Phytoseius (Phytoseius) rachelae*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, 253-255.

Diagnosis : Dorsal shield 268 long, 128 wide, with 14 pairs of setae. Setae $j_1 = j_3$; s_4 being longest ; $s_6 > Z_5 > Z_4$; measurements of setae : j_1 -28, j_4 - j_6 , J_5 -4-5 each, j_3 -28, z_2 -8, z_3 -20, z_4 -14, s_4 -100, s_6 -80, Z_5 -76, z_5 -5, Z_4 -64, r_3 -40. Ventrianal shield 64 long, 44 wide, with 3 pairs of preanal setae. Spermatheca with Y-shaped cervix. Macrosetae on leg IV : genu-12, tibia-48, basitarsus-20, all spatulate.

Male : Unknown.

Distribution : India (Kerala), Hong Kong.

189. *Phytoseius (Phytoseius) rasilis* Corpuz

1966. *Phytoseius rasilis* Corpuz, *Philipp. Agric.*, 50 : 736-738.

(Holotype ♀, Philippines : Bigger Balatero, Puerto Galera, on *Wedelia biflora*, in Dept. Ento. Univ. Philip. Paratypes 1 ♀, Nasugbu, on *Desmodium gangeticum* ; 1 ♀, on *Flemingiu strobilifera*, in Dept. Ento. Univ. Philip.).

Diagnosis : Dorsal shield 288 long, 152 wide, with 15 pairs of setae : j_1 -16, j_3 -33, z_3 -24, s_4 -116, s_6 -66, Z_4 -80, Z_5 -72, r_3 -40 ; other setae small. Metasternal setae on plates. Ventrianal shield longer than wide, constricted at anterior third, widening abruptly at anal region, with 3 pairs of preanal setae and a pair of pores. Metapodal plates absent. Fixed digit of chelicera 2-dentate, movable digit 1-dentate. Leg IV macrosetae on genu-10, tibia-46, basitarsus-26, distitarsus-25, all but that on distitarsus with bulbous tip. Cervix of spermatheca slender, cylindrical, widening slightly into the vesicle.

Male : Unknown.

Distribution : Philippines.

190. *Phytoseius (Phytoseius) rimandoi* Corpuz

1966. *Phytoseius rimandoi* Corpuz, *Philipp. Agric.*, 50 : 735-736.

(Holotype ♀, Philippines : College Campus, Los Banos, Laguna, *Bambusa* sp., in Dept. Ento. Univ. Philip. Paratypes 12 ♀ ♀, same data as for holotype ; 3 ♀ ♀, Mt. Maquiling, Laguna, 300 Mt. elevation, on *Schizostachyum lima*, in Dept. Ento. Univ. Philip.).

Diagnosis : Dorsal shield with pebble-like marking, 332 long, 186 wide, with 15 pairs of setae. j_1 -26, j_3 -16, z_3 -24, z_4 -22, s_4 -48, s_6 -58, Z_4 -56, Z_5 -52 long, r_3 -36 thick and serrate ; others small. Metasternal setae on plates. Ventrianal shield longer than wide, constricted laterally at the middle, with 3 pairs of preanal setae. Peritreme extends anteriorly upto j_1 . Fixed digit of chelicera 3-dentate, movable digit 1-dentate. Leg IV with macrosetae on genu-6, tibia-42, basitarsus-24 and distitarsus-24 ; all thick and with bulbous tip. Cervix of spermatheca cup-like, atrium a small globular chamber.

Male : Unknown.

Distribution : Philippines.

191. *Phytoseius (Phytoseius) rugosus* Denmark

1966. *Phytoseius (Dubininellus) rugosus* Denmark, *Fla. Dept. Agr. Bull.*, 6 : 100.

(Holotype-♂, Pakistan : Rawalpindi, name of plant not mentioned, in USNM. Paratype-1 nymph, Sialkot, on *Zyphus* sp., Florida St. Collection of Arthropods, Gainesville).

1977. *Phytoseius (Dubininellus) rugosus*, Gupta, *Indian J. Acar.*, 2 : 7-8 (Redescribed).
(Orissa : *Terminalia arjuna*).
1986. *Phytoseius (Phytoseius) rugosus*, Gupta, *Fauna of India (Acari : Mesostigmata)*
Family Phytoseiidae, p. 257-258.

Diagnosis : (known from ♂ only) : Dorsal shield 200 long, 155 wide, rugose, with 15 pairs of setae, of those, j_4 - j_6 , J_5 , z_5 , z_2 , z_4 small, smooth, other setae being long, thick and serrate. Measurements of setae : j_1 -19, j_3 -18, z_3 -24, s_4 -45, s_6 -44, Z_5 -29, Z_4 -26, r_3 -26. Ventrianal shield with 3 pairs of preanal setae. Macrosetae on leg IV : genu-6 (peg-like), tibia-7, basitarsus-28.

Distribution : India (Orissa), Pakistan.

192. *Phytoseius (Phytoseius) roseus* Gupta

1969. *Phytoseius (Dubininellus) roseus* Gupta, *Israel J. agric. Res.*, 19 : 119-120.
(Holotype ♀, India : West Bengal, on rose, in ZSI).
1973. *Phytoseius (Phytoseius) rugulosus* Chaudhri, *Pak. J. Zool.*, 5(1) : 82-83.
(Pakistan : Daphar, on *Canabis sativa*).
1977. *Phytoseius (Dubininellus) roseus*, Gupta, *Indian J. Acar.*, 1 : 16-18.
(Gujarat : rose ; Punjab : milkweed, *Zizyphus* sp., fig).
1980. *Phytoseius (Dubininellus) roseus*, Gupta, *Bull. zool. Surv. India*, 3(1-2) : 51-52.
(Tamil Nadu : Papaya).
1986. *Phytoseius (Phytoseius) roseus*, Gupta, *Fauna of India (Acari : Mesostigmata)*
Family Phytoseiidae, p. 255-257.

Diagnosis : Dorsal shield 285 long, 145 wide, rugose, with 15 pairs of setae, of those, j_4 , j_6 , J_5 , z_5 , z_2 , z_4 , small, smooth ; other setae being long, thick and serrate. Measurements of setae : j_1 -27, j_3 -40, z_3 -31, s_4 -108, s_6 -70, Z_5 -81, Z_4 -81, r_3 -45. Ventrianal shield 81 long, 50 wide, with 3 pairs of preanal setae. Spermatheca with bowl-shaped cervix. Macrosetae on leg IV : tibia-36, basitarsus-22, distitarsus-27 ; those of the first two being spatulate.

Distribution : India (West Bengal, Gujarat, Punjab, Tamil Nadu), Pakistan.

193. *Phytoseius (Phytoseius) spathulatus* Chaudhri

1973. *Phytoseius (Phytoseius) spathulatus* Chaudhri, *Pak. J. Zool.*, 5(1) : 80-82.
(Holotype ♀, Pakistan : 3 miles west of Hyderabad, on undet. plant, in UAL).

Diagnosis : Dorsal shield rugose with a pair of pores near z_5 , with 15 pairs of setae. Measurements of setae : j_1 -29, j_4 - j_6 , J_5 , z_5 -minute, j_3 -44, z_2 -13, z_3 -34, z_4 -13, s_4 -114, s_6 -75, Z_5 -73, Z_4 -19, r_3 -42. Besides z_2 - z_4 , j_4 - j_6 , z_5 , other setae thick and serrate, Ventrianal shield longer

than wide with 3 pairs of preanal setae. Cervix of spermatheca long, tubular. Metapodal plate 1 paired. Leg IV with macrosetae on genu-10, tibia-39 and basitarsus-23, all spatulate with hyaline membrane.

Male : Unknown.

Distribution : Pakistan.

194. *Phytoseius (Phytoseius) swirskii* Gupta

1979. *Phytoseius (Dubininellus) swirskii* Gupta, *Entomologists' mon. Mag.*, 115 : 210-212.

(Holotype ♀, India : West Bengal, Burdwan Agr. Farm, on *Ficus* sp., in ZSI).

1986. *Phytoseius (Phytoseius) swirskii*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 259-260.

Diagnosis : Dorsal shield rugose, 280 long, 170 wide with 15 pairs of setae. Measurements of setae : j_1 -20, j_3 -25, z_3 -26, z_4 -12, s_4 -70, s_6 -70, Z_5 -58, Z_4 -47, r_3 -32, all being thick and serrate ; other setae tiny. Ventrianal shield longer (82) than broad, with 3 pairs of preanal setae. Metapodal plates one paired. Macrosetae on leg IV : genu-11, tibia-36, basitarsus-21, all being spatulate.

Male : Unknown.

Distribution : India (West Bengal).

195. *Phytoseius (Phytoseius) wainsteini* Gupta

1981. *Phytoseius (Dubininellus) wainsteini* Gupta, *Indian J. Acar.*, 5 : 43-44.

(Holotype ♀, Paratype 1 ♀, India : Jammu & Kashmir, Pahalgam, on undet. plant, in ZSI).

1986. *Phytoseius (Phytoseius) wainsteini*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 260-261.

Diagnosis : Dorsal shield 270 long, 145 wide, rugose, with 15 pairs of setae. Measurements of setae : j_1 -20, j_4 - j_6 , J_5 small, j_3 -56, z_2 -16, z_3 -32, z_4 -28, s_4 -12, s_6 -68, Z_5 -72, Z_4 -84, r_3 -36 ; Z_4 thicker than Z_5 . Ventrianal shield elongate, 80 long, 40 wide with 3 pairs of preanal setae. Fixed digit of chelicera with 3 teeth, movable digit with one tooth. Macrosetae on leg IV : genu-15, tibia-67, basitarsus-32.

Male : Unknown.

Distribution : India (Jammu & Kashmir).

In addition to the above, the following species are also known but could not be included in the key for the reasons as mentioned for *Amblyseius (Amblyseius)* spp. on p.-14.

196. **Phytoseius (Phytoseius) domesticus** Rather

1985. *Phytoseius domesticus* Rather, *Acarologia*, 26(1) : 13-16.
(Holotype—Particulars not available to the author).

Diagnosis : Due to non-availability of the concerned literature the diagnostic characters could not be mentioned.

Male : ?

Distribution : India (Kashmir).

197. **Phytoseius (Phytoseius) longus** Wei-nan & Zhao-Quan

1985. *Phytoseius (Dubininellus) longus* Wei-nan & Zhao-Quan, *Acta Zootaxonomica Sinica*, 10(4) : 396-397.

Diagnosis : Dorsal shield 255 long, 155 wide. Measurements of setae : j_1 -22, j_4 , j_5 , J_5 , z_5 -5 each, j_6 -10, j_3 -37, z_2 -12, z_3 -30, z_4 -12, Z_5 -90.

Male : Not known.

Distribution : South China.

198. **Phytoseius (Phytoseius) nipponicus** Ehara

1962. *Phytoseius (Dubininellus) nipponicus* Ehara, *Jap. J. appl. Ent. & Zool.*, 6(1) : 55-58.
(Holotype ♀, Japan : Den-n-Chofu, Tokyo, on chrysanthemum, in Zool. Inst. Fac. Sci. Hokkaido Univ.)

Diagnosis : Dorsal shield faintly reticulate. Idiosoma 360 long, 230 wide. Measurements of setae : j_1 -31, j_3 -31, z_3 -31, s_4 -93, s_6 -85, Z_5 -79, Z_4 -73, r_3 -50, JV_5 -54 long. Macrosetae present on tibia and basitarsus IV.

Male : Ehara (1962) described it.

Distribution : Japan, South China.

199. **Phytoseius (Phytoseius) petentis** Chaudhri, Akbar & Rasool

1979. *Phytoseius (Phytoseius) petentis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAF., p. 233.
(Holotype ♀, Pakistan : Faisalabad, on cotton, in UAF).

Diagnosis : Dorsal shield rugose. Measurements of setae : j_1 -29, j_3 -40, z_2 -13, z_3 -39, z_4 -13, s_6 -74, Z_5 -68, Z_4 -82, r_3 -45. Ventrianal shield 90 long, 52 wide, with 3 pairs of preanal setae. Macrosetae on leg IV : tibia-39, basitarsus-25, distitarsus-45. Spermathecal atrium nodular.

Male : Unknown.

Distribution : Pakistan.

200. *Phytoseius (Phytoseius) qianshanensis* Lai-rong & Li-sheng

1981. *Phytoseius qianshanensis* Lai-rong & Li-sheng, *Entomotaxonomia*, 3(3) : 237.

(Holotype ♀, Paratypes 3 ♀ ♀, South China : Qianshan, Liaoning Province, on undet. plant).

Diagnosis : Dorsal shield 308 long, 163 wide. Measurements of setae : j_1 -32, j_3 -30, j_4 -8, j_5 -8, j_6 -9, J_5 -9, z_2 -13, z_3 -32, z_4 -18, z_5 -8, Z_4 -65, Z_5 -81, s_4 -76, s_6 -72, r_3 -46, JV_5 -54. Macrosetae on leg IV : genu-19, tibia-52, basitarsus-32, distitarsus-32.

Male : Unknown.

Distribution : South China.

201. *Phytoseius (Phytoseius) rugatus* Tseng

1976. *Phytoseius (Dubininellus) rugatus* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

(Holotype : Particulars unavailable to the author).

Diagnosis : Not available to the author for want of original literature.

Distribution : Taiwan.

202. *Phytoseius (Phytoseius) ruidus* Wei-nan & Zhao-Quan

1984. *Phytoseius (Dubininellus) ruidus* Wei-nan & Zhao-Quan, *Acta Entomologica Sinica*, 27(4) : 460.

(Holotype ♀, Paratype 1 ♀, South China : Long Chuan, Yunnan Province ; 1 ♀, Da Ming Shan, Guangxi).

Diagnosis : Dorsal shield 275 long, 145-160 wide. Measurements of setae : j_1 -22-29, j_3 -20-5, j_4 -6-7, j_5 -6-7, j_6 -7, J_5 -6-8, z_2 -20-22, z_3 -32-37, z_4 -15-17, z_5 -6-7, Z_4 -72-82, r_3 -32-37, JV_5 -21-27.

Male : Unknown.

Distribution : South China.

203. *Phytoseius (Phytoseius) silvaticus* Wei-nan & Zhao-Quan

1984. *Phytoseius (Dubininellus) silvaticus* Wei-nan & Zhao-Quan, *Acta Entomologica Sinica*, 27(4) : 458-459.

(Holotype ♀, Paratypes 4 ♀ ♀, 2 ♂ ♂, South China : Jiu Hu Ping, Hubei, on *Tectona grandis* ; 2 ♀ ♀, Song Bai, *Vitis adstricta*).

Diagnosis : Dorsal shield 209-305 long, 145-160 wide. Measurements of setae : j_1 -27-30, j_3 -20-22, j_4 -7-10, j_5 -6-8, j_6 -8-12, J_5 -8-10, j_3 -33-35, z_4 -16-17, z_5 -8-10, Z_4 -71-78, Z_5 -67-75, s_4 -55-60, s_6 -75-80, r_3 -37-40, JV_5 -45-55.

Male : Unknown.

Distribution : South China.

Genus *Typhlodromus* Scheuten

1857. *Typhlodromus* Scheuten, *Arch. Naturges*, 23 : 111.
 1887. *Seius* (*Seiulus*) Berlese, *Acari Myriapoda et Scorpionides*, Fasc. 41(3) : 3.
 1902. *Seiulus* Oudemans, *Tij. Ent.*, 45 : 17.
 1904. *Iphidulus* Ribaga, *Riv. Pat. Veg.*, 10 : 176.
 1904. *Echinoseius* Ribaga, *Riv. Pat. Veg.*, 10 : 177.
 1948. *Neoseiulus* Hughes, In. *Min. Agr. Fish. Lond. Pub.*, 141.
 1957. *Typhlodromus* (*Typhlodromus*) Chant, *Can. Ent.*, 89 : 529.
 1959. *Typhloseiopsis* De Leon, *Ent. News.*, 70 : 150.
 1959. *Anthoseius* De Leon, *Ent. News.*, 70 : 258.
 1961. Typhlodromidae Karg, *Z. angew Ent.*, 47 : 441.
 1961. *Cydnodromella* Muma, *Bull. Fla. St. Mus.*, 5 : 286.
 1961. *Amblydromella* Muma, *ibid.*, p. 294.
 1961. *Paraseiulella* Muma, *ibid.*, 294.
 1961. *Metaseiulus* Muma, *ibid.*, 295.
 1961. *Neoseiulella* Muma, *ibid.*, 295.
 1961. *Austaliseiulus* Muma, *ibid.*, 296.
 1961. *Clavidromus* Muma, *ibid.*, 296.
 1961. *Clavidromina* Muma, *ibid.*, 296.
 1961. *Amblydromus* Muma, *ibid.*, 297.
 1961. *Typhlodromina*, Muma, *ibid.*, 297.
 1961. *Galendromimus* Muma, *ibid.*, 297.
 1961. *Galendromus* Muma, *ibid.*, 298.
 1961. *Typhlodromella* Muma, *ibid.*, 299.
 1961. *Typhloctonus* Muma, *ibid.*, 299.
 1961. *Paraseiulus* Muma, *ibid.*, 299-300.
 1962. Typhlodromini Wainstein, *Acarologia*, 4 : 26.
 1962. *Chanteius* Wainstein, *Acarologia*, 4 : 19.
 1962. *Melodromus* Wainstein, *Acarologia*, 4 : 23-24.
 1962. *Chiliseius* Gonzalez & Schuster, *Bull. Univ. Chile Agr. Exp. Sta.*, 16 : 7.
 1967. *Cydnoseius* Muma, *Fla. Ent.*, 50 : 274-276.
 1986. *Typhlodromus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 262.

Key to the subgenera of *Typhlodromus*

- | | | |
|--|-----|---------------------|
| 1. Dorsal shield with 11 pairs of setae | ... | <i>Typhloctonus</i> |
| — Dorsal shield with less than 11 pairs of setae | ... | 2 |
| 2. Dorsal shield with 10 pairs of setae | ... | 4 |
| — Dorsal shield with less than 10 pairs of setae | ... | 3 |

3. Sternal shield entire and distinct	...	<i>Brethria</i>
— Sternal shield not entire and or slightly indistinct	...	<i>Metaseiulus</i>
4. 3 pairs of median setae	...	<i>Paraseiulus</i>
— 2 pairs of median setae	...	5
5. Ventrianal shield with 3 pairs of preanal setae	...	<i>Anthoseius</i>
— Ventrianal shield with 4 pairs of preanal setae	...	6
6. Most of the lateral setae plumose	...	<i>Clavidromus</i>
— Most of the lateral setae not plumose, only a few may be serrate	...	7
7. Z_5 and Z_4 serrate and former knobbed	...	<i>Amblydromella</i>
— Not as above	...	8
8. Leg IV with macrosetae on genu, tibia and basitarsus of leg IV	...	<i>Orientiseius</i>
— Leg IV with macrosetae on basitarsus IV only	...	<i>Typhlodromus</i>

Subgenus *Amblydromella*

Key to the species of Amblydromella

1. Some setae on dorsal shield knobbed	...	2
— None of the setae on dorsal shield knobbed	...	15
2. Macroseta present only on basitarsus IV	...	3
— Macroseta present on other leg segments besides basitarsus IV	...	6
3. s_4 longer than z_4	...	4
— s_4 as long as z_4	...	<i>homalii</i>
4. Length of setae j_1-j_6 , J_2 vary between 10-15	...	<i>himalayensis</i>
— j_1-j_6 , J_2 much longer than 10-15	...	<i>dactylifera</i>
5. Macroseta present on genu, tibia and basitarsus of leg IV	...	6
— Macroseta present on genu and basitarsus of leg IV...	...	<i>mori</i>
6. Ventrianal shield much longer than wide	...	7
— Ventrianal shield only slightly longer than wide	...	9
7. z_2 reaches almost upto base of z_3	...	8
— z_2 much longer than the distance between its base and that of z_3	...	<i>serrulatus</i>
8. Pores absent around ventrianal shield	...	<i>fleschneri</i>
— Pores present around ventrianal shield	...	<i>umbratus</i>
9. Macroseta on genu IV and tibia IV equal	...	<i>galummatus</i>
— Macroseta on genu IV and tibia IV unequal	...	10
10. Macroseta on genu IV longer than that of tibia IV	...	<i>philippinus</i>
— Macroseta on genu IV shorter than that of tibia IV...	...	11
11. Macroseta on genu IV much shorter than that of tibia IV	...	12
— Macroseta on genu IV only slightly shorter than that of tibia IV	...	13
12. Spermatheca corniform	...	<i>eharai</i>
— Spermatheca saculiform	...	<i>bambusicolus</i>

13. Z_4 almost double the length of S_5	...	<i>ryukyuensis</i>
— Z_4 only slightly longer than S_5	...	<i>eremetides</i>
14. Setae comparatively longer, Z_4 extends beyond the base of Z_5	...	15
— Setae comparatively shorter, Z_4 never reaches upto the base of Z_5	...	16
15. Cervix of spermatheca funnel-shaped	...	<i>gopali</i>
— Cervix of spermatheca sacular	...	<i>divergentis</i>
16. Macroseta present only on basitarsus IV	...	18
— Macrosetae present on genu, tibia and basitarsus IV	...	17
17. Ventrianal shield with concave lateral margins	...	<i>acacia</i>
— Ventrianal shield with straight lateral margins	...	<i>zafari</i>
18. Macrosetae simple	...	19
— Macrosetae knobbed	...	24
19. Dorsal shield reticulate	...	<i>octavus, cordia</i>
— Dorsal shield partly reticulate	...	20
20. Z_4 never reaches upto S_5	...	21
— Z_4 reaches upto S_5	...	23
21. S_2 and S_4 equal	...	<i>rhenanus</i>
— S_2 and S_4 unequal	...	22
22. S_2 shorter than S_4	...	<i>rhododendroni</i>
— S_2 longer than S_4	...	<i>balakotiensis</i>
23. r_3 and R_1 almost equal	...	<i>sica</i>
— r_3 longer than R_1	...	<i>loralaiana</i>
24. S_4 longer than S_5	...	25
— S_4 as long as S_5	...	<i>ghanii</i>
25. Movable digit with 3 teeth	...	<i>kodaikanalensis</i>
— Movable digit without teeth	...	<i>chrysanthemii</i>

204. *Typhlodromus (Amblydromella) acacia*

Jie-liu, Lai-rong & Li-Sheng.

1980. *Typhlodromus acacia* Jie-liu, Lai-rong & Li-sheng, *Fudan Journal* (N. S.) 19 (4): 467-469.

(Holotype ♀, South China: Fujian Fuzhou, on *Acacia richii*; repository unknown).

Diagnosis: Dorsal shield reticulate with 18 pairs of setae, Z_5 thick and serrate, others smooth, a conspicuous pore present associated with S_5 . Measurements of setae: j_1 -13, j_4 -13, j_5 -11, j_6 -17, J_2 -17, J_5 -8, z_5 -19, j_3 -15, j_2 -13, z_3 -13, z_4 -13, s_4 -15, s_6 -17, S_2 -19, S_5 -17, Z_5 -33, r_3 -17, R_1 -15. Ventrianal shield with concave lateral margins and 4 pairs of preanal setae. Knobbed macrosetae present on genu, tibia, and basitarsus of Leg IV.

Male: Unknown.

Distribution: South China.

205. **Typhlodromus (Amblydromella) balakotiensis**
(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Amblydromella balakotiensis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAL, p. 224.

(Holotype ♀, Pakistan, 1 mile East of Balakot, at 300', on *Salvia* sp., in UAL).

Diagnosis : Dorsal shield pear-shaped, 326 long, 194 wide; concave near R_1 , with 18 pairs of setae and a pair of pores. All setae shorter than distance next in line, $Z_4 > Z_4 - Z_5$. Measurements of setae : j_1 -16, j_4 -13, j_5 , j_6 -16 each, J_2 -18, J_5 -8, j_3 -21, $z_2 = s_6$ -16, $z_3 - z_4$, s_4 -18 each S_2 -26, S_4 -23, S_5 -13, Z_5 -42, z_5 -18, Z_4 -29, r_3 -21, R_1 -16. Ventrianal shield 104 long, 81 wide, pentagonal, lateral margins concave, with 4 pairs of setae. Spermatheca with cervix sacular. Macroseta on leg IV : basitarsus-29, simple.

Male : Unknown.

Distribution : Pakistan.

206. **Typhlodromus (Amblydromella) bambusicolus** Gupta

1977. *Typhlodromus bambusicolus* Gupta, *Indian J. Acar.*, 2 : 2-4.

(Holotype ♀, India : Assam, Mikir hills, on bamboo, in ZSI. Paratype 1 ♀, Assam, Nowgong, on citrus, in ZSI).

1986. *Typhlodromus (Amblydromella) bambusicolus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 267-268.

Diagnosis : Dorsal shield well sclerotized, reticulate, 290 long, 100 wide, with 18 pairs of setae. Measurements of setae : j_1 -12, j_4 - j_5 -10-11 each, j_6 -16, J_2 -20, J_5 -8, j_3 -15, z_2 -12, z_3 -12, z_4 -16, s_4 -16, s_6 -20, S_2 -20, S_4 -22, S_5 -12, Z_5 -49 (serrate), z_5 -14, Z_4 -24 (serrate). Ventrianal shield pentagonal, 76 long, 72 wide, with 3 pairs of preanal setae and a pair of preanal pores. Spermatheca with broad, tubular cervix. Macrosetae on leg IV : genu-8, tibia-12, basitarsus-20, all with bulging tip.

Male : Unknown.

Distribution : India (Assam).

207. **Typhlodromus (Amblydromella) cordiae** (Muma)

1967. *Cydnoseius cordiae* Muma, *Fla. Ent.*, 50 : 276.

(Holotype ♀, Pakistan : Karachi, on *Cordia obliqua*, in USNM. Paratypes 5 ♀ ♀, Hyderabad, same habitat ; 10 ♀ ♀, 3 ♂ ♂, Multan, on *Mangifera indica* ; 1 ♀, 2 ♂ ♂, 1 nymph paratypes, Tando Jam, *Pongamia glabra* ; Paratypes both in USNM and author's Collection).

Diagnosis : Dorsal shield 370 long, 190 wide, moderately sclerotized, imbricate, with 18 pairs of setae, Z_5 long and serrate ; other setae short. Fixed digit of chelicera with 4 teeth, movable digit with one tooth. Peritreme extends anteriorly upto j_1 . Chaetotaxy of genu II $2 \frac{2}{8} \frac{2}{8} 1$, genu III $1 \frac{2}{8} \frac{2}{8} 1$.

Male : Spermatophoral process with short shank, very short foot, an indistinct lateral process and a truncate toe.

Distribution : Pakistan.

208. *Typhlodromus (Amblydromella) chrysanthemi* Gupta

1977. *Typhlodromus chrysanthemi* Gupta, *Indian J. Acar.*, 1 : 11-12.

(Holotype ♀, India : Gujarat, Jamnagar, on chrysanthemum, in ZSI).

1986. *Typhlodromus (Amblydromella) chrysanthemi*, Gupta, *Fauna of India (Acari : Mesostigmata, Family Phytoseiidae, p. 269-270.*

Diagnosis : Dorsal shield reticulate, 312 long, 200 wide, with 18 pairs of setae, mostly thin and small except Z_4 and Z_5 , which are thick and serrate. Measurements of setae : j_1 -22, j_4 -20, j_5 -20, j_6 -20, J_2 -25, J_5 -8, j_3 -18, z_2 -20, z_3 -20, z_4 -22, s_4 -26, s_6 -28, S_2 -29, S_4 -32, S_5 -18, Z_5 -45, z_5 -20, Z_4 -33. Ventrianal shield 108 long, 80 wide, lateral margins concave at preanal region, with 4 pairs of setae and a pair of pores. Spermatheca with an elongate cervix. Macroseta on basitarsus IV-28.

Male : Unknown.

Distribution : India (Gujarat).

209. *Typhlodromus (Amblydromella) dactylifera*

(Chaudhri, Akbar & Rasool)-New Comb.

1974. *Amblydromella dactylifera* Chaudhri, Akbar & Rasool, *Rept. PL. 480 Project, UAL*, p. 212.

(Holotype ♀, Pakistan, 15 miles north of Karachi, on *Phoenix dactylifera*, in UAL.).

Diagnosis : Dorsal shield reticulate, 326 long, 224 wide, concave near R_1 with 18 pairs of setae and 4 pairs of pores. Setae j_3 - z_3 longer than distance between their respective bases and those of the next setae ; other setae shorter ; Z_4 shorter than the distance between the bases of Z_4 and Z_5 . Measurements of setae : j_1 -26, j_4 - j_5 -21 each, j_6 -31, J_2 -26, J_5 -10, J_3 -26, z_2 -23, z_3 -29, z_4 -31, s_4 -31, s_6 -36, S_2 = S_4 -39, S_5 -42, Z_5 -49, z_5 -23, Z_4 -39, r_3 -34, R_1 -42. Metasternal plates present.

Ventrianal shield 117 long, 81 wide, with 4 pairs of preanal setae. Macroseta on basitarsus IV-26 with bulbous tip.

Male : Unknown.

Distribution : Pakistan.

210. *Typhlodromus (Amblydromella) divergentis*
(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Amblydromella divergentis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAL. pp. 217-221.

(Holotype ♀, Pakistan : Charrapani, 4000' Murree Hills, on *Grewia* sp., in UAL).

1982. *Typhlodromus divergentis*, Dhooria, *Acar. Newsl.*, 10 : 4-6.

Diagnosis : Dorsal shield partly reticulate, 316 long, 163 wide, concave near R_1 , with 18 pairs of setae ; setae j_3 - z_4 longer than distance between setae next in line, S_4 extends beyond S_5 , $Z_4 > Z_4 - S_5$. Measurements of setae : j_1 -18, j_4 -23, j_5 -21, j_6 -39, J_2 -47, J_5 -10, $j_3 = z_3$ -29, z_2 -23, z_4 -31, s_4 -39, s_6 -52, S_2 -57, S_4 -55, S_5 -10, Z_5 -51, z_5 -26, Z_4 -60, r_3 -26, R_1 -31. Metasternal plates present. Ventrianal shield 107 long, 65 wide, pentagonal, concave laterally, rounded anteriorly, with 4 pairs of preanal setae. Fixed digit of chelicera with 4 subapical teeth, movable digit with 1 tooth. Macroseta on leg IV : basitarsus-30.

Male : Unknown.

Distribution : Pakistan, India (Punjab).

Other collection localities : Pakistan : Alipur, Bhera, Chakwal, Choa Saiden Shah, Haripur, Havailian, Islamabad, Jauharabad, Karachi, Lyallpur, Mian Channu, Multan, Mazaffargarh, Nankana, Nia Lahore, Pirmahal, Rahim Yar Khan, Rajanpur, Rawalpindi, Salooni Jhal, Samasata, Sheikhpura.

Other plants : *Vernonia* sp., *Acacia arabica*, *Eriobotrya japonica*, *Luffa acutangula*, *Helianthus annuus*, *Malvastrum* sp., *Cupressus sempervirens*, *Acacia modesta*, *Withania somnifera*, *Nerium indicum*, *Salvadora oleoides*, *Jacaranda* sp., *Mangifera indica*, *Olea europea*, *Punica granatum*, *Grewia asiatica*, *Cestrum noctrum*, *Thuja orientalis*, *Sesbania sesban*, *Chrysanthemum* sp., *Cordia obliqua*.

211. *Typhlodromus (Amblydromella) darjeelingensis* Gupta

1970. *Typhlodromus insularis*, Gupta, *Sci. & Cult.*, 36 : 98 (West Bengal : *Syzygium cumini*).

1971. *Typhlodromus caudiglans*, Gupta *et al.*, *Sci. & Cult.*, 37 : 298.
(Punjab : mango).
1978. *Typhlodromus eharai*, Gupta, *Bull. zool. Surv. India*, 1 : 54.
(Karnataka : *Cassia* ; Tamil Nadu : Oothu-coffee).
1980. *Typhlodromus eharai* Gupta, *Entomologists' mon. Mag.* 115 : 209-210.
(Holotype ♀, India : West Bengal, Darjeeling Dist., Lataguri, on an undet. plant and Paratypes 2 ♀ ♀, same data as for holotype, all in ZSI).
1986. *Typhlodromus darjeelingensis* Gupta, *Fauna of India* (Acari : Mesostigmata) Family Phytoseiidae, p. 270-272.

Diagnosis : Dorsal shield 292 long, 185 wide, reticulate, with 18 pairs of setae. Setae Z_5 and Z_4 serrate, former being knobbed. Measurements of setae : j_1 -10, j_4 - j_5 -11 each, j_6 -15, J_2 -18, J_5 -9, j_3 -14, z_2 -12, z_3 -13, z_4 -15, s_4 -17, s_6 -20, S_2 -22, S_4 -22, S_5 -19, Z_5 -40 (knobbed), z_5 -12, Z_4 -21. Ventrianal shield slightly longer than wide, with 4 pairs of preanal setae and a pair of round pores. Leg IV with macrosetae on genu-8, tibia-15, basitarsus-29.

Male : Unknown.

Distribution : India (West Bengal, Punjab).

Remarks : The species *T. (A.) eharai* Gupta was re-named as *T. (A.) darjeelingensis* Gupta, 1986.

212. *Typhlodromus (Amblydromella) eremitidis*

(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Amblydromella eremitidis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAL, pp. 212-215.
(Holotype ♀, Pakistan : 2 miles west of Pirmahal, on *Tamarix aphylla*, in UAL).

Diagnosis : Dorsal shield reticulate, 316 long, 173 wide, concave near R_1 with 18 pairs of setae and 8 pairs of visible pores ; Z_4 longer than distance between Z_4 and Z_5 . Measurements of setae : j_1 -18, j_4 -16, $j_5 = j_6$ -18, each J_2 -21, J_5 -8, j_3 , z_3 to s_4 equal -23 each, z_2 -18, $s_6 = S_4 = S_5$ -29 each, S_2 -31, Z_5 -49, z_5 -16, Z_4 -39, $r_3 = R_1$ -23. Ventrianal shield with 4 pairs of preanal setae. Macrosetae on leg IV : genu-22, tibia-26, basitarsus-42, all with bulbous tip. Metasternal plates with setae present. Spermatheca sacular.

Male : Unknown.

Distribution : Pakistan.

213. *Typhlodromus (Amblydromella) fleschneri* Chant

1960. *Typhlodromus (Typhlodromus) fleschneri* Chant, Can. Ent., 92 : 60-62. (Holotype ♀, Paratypes 2 ♀ ♀, 1 ♂, India : Karnataka, Mercara, on orange, in Canadian National Collection, Belleville. Paratypes 3 ♀ ♀, Meghalaya, Shillong, on citrus ; 1 ♀, Assam, Burnihat on citrus ; 1 ♀, Bangalore, on lemon, all in Citrus Expt. Sta., Riverside, California).
1970. *Typhlodromus fleschneri*, Gupta, *Sci. & Cult.*, 36 : 98. (West Bengal : on cotton).
1977. *Typhlodromus fleschneri*, Gupta, *Indian J. Acar.*, 2 : 6. (West Bengal : *Gossypium herbaceum*).
1986. *Typhlodromus (Amblydromella) fleschneri*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 272-274.

Diagnosis : Dorsal shield 338 long, 195 wide, reticulate, with 18 pairs of setae. Measurements of setae : j_1-j_6 , 20 each, J_2-25 , J_5-10 , j_3 , z_2-z_4 24 each, s_4-s_6-32 each, S_2-32 , S_4-36 , S_5-16 , Z_5-44 ; Z_5 and Z_4 with bulbous tip. Sternal, metasternal and genital shields normal. Ventrianal shield 100 long, 63 wide, with 4 pairs of preanal setae and a pair of preanal pores. Macroseta on basitarsus IV-27 long.

Male : Chant (1960) made a brief mentioning of its characters.

Distribution : India (Assam, West Bengal, Meghalaya, Karnataka).

214. *Typhlodromus (Amblydromella) galummatus*

(Chaudhuri, Akbar & Rasool)—New Comb.

1974. *Amblydromella galummatus* Chaudhuri, Akbar & Rasool, Rept. PL 480 Project, UAL, p. 217.
(Holotype ♀, Pakistan : altitude Murree Hills, on undet. plant, in UAL).

Diagnosis : Dorsal shield reticulate, 306 long, 204 wide, concave near R_1 . Dorsal shield with 18 pairs of setae and 3 pairs of pores ; Z_4 shorter than distance between Z_4-S_5 . Measurements of setae : j_1-13 , $j_4=j_5-10$, $j_6=J_2-16$, J_5-10 , j_3-18 , z_2-13 , $z_3=z_4=s_4-16$ each, s_6-18 , $S_2=S_4-21$ each, S_5-19 , Z_5-31 , z_5-10 , Z_4-18 , r_3-18 , R_1-16 . Ventrianal shield 99 long, 83 wide with 5 pairs of preanal setae. Cervix of spermatheca tubular. Macrosetae on leg IV : genu-16, tibia-16, basitarsus-31, all with bulbous tip.

Male : Unknown.

Distribution : Pakistan.

215. *Typhlodromus (Amblydromella) ghanii* (Muma)

1967. *Amblydromella ghanii* Muma, *Fla. Ent.*, 50 : 279.

(Holotype ♀, other ♂ and ♀ Paratypes, Pakistan : Multan, on *Punica granatum*; ♂ Paratype from Sialkot, on *Zizyphus* sp. Holotype in USNM, Paratypes in USNM and in author's Collection).

Diagnosis : Dorsal shield 330 long, 190 wide, imbricate, entirely (indistinct behind j_6), with 18 pairs setae; Z_4 and Z_5 thick and serrate, the latter knobbed. Ventrianal shield pentagonal with 4 pairs of setae. Spermatheca sac-like, chaetotaxy of genu II $2 \frac{2}{0} \frac{2}{0} 1$, genu III $1 \frac{2}{0} \frac{2}{0} 1$. Macroseta on basitarsus IV knobbed.

Male : Unknown.

Distribution : Pakistan.

216. *Typhlodromus (Amblydromella) gopali* Gupta

1969. *Typhlodromus gopali* Gupta, *Sci. & Cult.*, 35 : 277.

(Holotype ♀, Paratypes 3 ♀ ♀, India : West Bengal, Calcutta, on palm tree, all in ZSI).

1974. *Typhlodromus gopali*, Gupta & Dhooria, *Abstr. Indian Sci. Congr.*, 1974, p. 69 (Punjab & Himachal Pradesh).

1977. *Typhlodromus gopali*, Gupta, *Indian J. Acar.*, 1 : 12. (Rajasthan : palm).

1986. *Typhlodromus (Amblydromella) gopali*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 274-276.

Diagnosis : Dorsal shield 298 long, 192 wide, reticulate with 18 pairs of setae. Measurements of setae: j_1 -19, j_4 -22, j_5 -22, j_6 -31-34, J_2 -40, J_5 -9, j_3 -27, z_2 -18, z_3 -24, z_4 -27, s_4 -36, s_6 -45, S_2 -52, S_4 -52, S_5 -6, Z_5 -56, z_5 -22, Z_4 -55. Ventrianal shield 100 long, 63 wide, with 4 pairs of preanal setae and a pair of preanal pores. Spermatheca with funnel-shaped cervix. Macroseta on basitarsus-IV : 27 long.

Male : Unknown.

Distribution : India (West Bengal, Rajasthan, Punjab and Himachal Pradesh.)

217. *Typhlodromus (Amblydromella) himalayensis* Gupta

1981. *Typhlodromus himalayensis* Gupta, *Indian J. Acar.*, 5 : 32-33.

(Holotype ♀, India : Himachal Pradesh, Kangra, on pear. Paratype 1 ♀, same data as for holotype, both in ZSI).

1986. *Typhlodromus (Amblydromella) himalayensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 276-277.

Diagnosis : Dorsal shield 298 long, 192 wide, reticulate, with 18 pairs of setae. Measurements of setae : j_1 -12, j_4 -10, j_5 -12, j_6 -16, J_2 -16, J_5 -8, j_3 -14, z_2 -18, z_3 -15, z_4 -16, s_4 -20, s_6 -24, S_2 -24, S_4 -25, S_5 -17, Z_5 -40 (serrate, knobbed), z_5 -16, Z_4 -24. Ventrianal shield 100 long, 68 wide, with 4 pairs of preanal setae. Macroseta on basitarsus IV-36 long (knobbed). Spermatheca with bell-shaped cervix.

Male : Unknown.

Distribution : India (Himachal Pradesh).

218. *Typhlodromus (Amblydromella) homalii* Gupta

1970. *Typhlodromus homalii* Gupta, 1970, *Oriental. Ins.*, 4 : 188-189.
(Holotype ♀, Paratypes 1 ♀, 1 ♂, India : West Bengal, Sibpur Botanical Garden, on *Homalium tomentosum*, in ZSI).
1974. *Typhlodromus homalii*, Gupta & Dhooria, *Abstr. Indian Sci. Congr.*, 1974, p. 69.
1974. *Amblydromella plebius*, Chaudhri, Akbur & Rasool, *Rept. PL 480 project*, UAL, pp. 209-211. (Pakistan : *Xanthium strumarium*).
1977. *Typhlodromus homalii*, Gupta, 1977, *Indian J. Acar.*, 1 : 12.
(Punjab : gall of *Zizyphus* sp.).
1977. *Typhlodromus homalii*, Gupta, *Indian J. Acar.*, 2 : 6.
(Orissa : *Ficus bengalensis*, Meghalaya : arum, citrus).
1978. *Typhlodromus homalii*, Gupta, *Bull. zool. Surv. India.*, 1 : (Kerala : Undet. plant, Tamil Nadu : Undet. plant).
1981. *Typhlodromus homalii*, Gupta & Nahar, *In Contrib. to Acar. in India*, p. 10
(Bihar : Citrus).
1985. *Typhlodromus (Amblydromella) homalii*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 278-280.

Diagnosis : Dorsal shield 325 long, 188 wide, reticulate with 18 pairs of setae ; Z_4 and Z_5 serrate and the latter with bulging tip. Measurements of setae : j_1 - j_6 -18-20 each, J_2 -22, J_5 -9, j_3 , z_2 - z_4 18-20 each, s_4 , s_6 , S_2 - S_4 25-27 each, S_5 -18, Z_5 -45, z_5 -18, Z_4 -29. Ventrianal shield pentagonal, lateral sides concave, 103 long, 75 wide, with 4 pairs of short preanal setae. Macroseta on leg IV : basitarsus-15 (bulbous tip).

Male : Gupta (1970) illustrated its spermatophoral process.

Distribution : India (West Bengal, Bihar, Kerala, Punjab, Meghalaya, Orissa, Tamil Nadu, Himachal Pradesh), Pakistan.

219. *Typhlodromus (Amblydromella) kodaikanalensis* Gupta

1978. *Typhlodromus kodaikanalensis* Gupta, *Bull. zool. Surv. India*, 1 : 47-48.
(Holotype ♀, India : Tamil Nadu, Kodaikanal, on pear. Paratypes 3 ♀ ♀, same data as for holotype, all in ZSI).

1986. *Typhlodromus (Amblydromella) kodaikanalensis*, Gupta, Fauna of India (Acari: Mesostigmata) Family Phytoseiidae, p. 280-281.

Diagnosis : Dorsal shield 300 long, 165, wide, reticulate, with 18 pairs of setae, Z_5 thickest and serrate, others being smooth and simple. Measurements of setae : j_1 -21, j_4 - j_6 -16 each, J_2 , J_5 -6 each, j_3 -20, z_2 -20, z_3 -20, z_4 -20, s_4 -24, s_6 -28, S_2 -28, S_4 -28, S_5 -16, Z_5 -48, z_5 -16, Z_4 -28. Ventrianal shield 92 long, 76 wide, with 4 pairs of preanal setae and a pair of preanal pores. Spermatheca with flask-shaped cervix. Macroseta only on basitarsus IV : 40 long.

Male : Unknown.

Distribution : India (Tamil Nadu).

220. *Typhlodromus (Amblydromella) loralaiana* (Muma)

1967. *Amblydromella loralaiana* Muma, *Fla. Ent.*, 50 : 578.

(Holotype ♀, Paratypes, ♂ and ♀, 3 nymphs, 1 larva, Pakistan : Loralai, on *Punica granatum* ; 2 ♀ ♀, Sialkot, on *Zizyphus* sp. ; 1 ♂ Tando Jan, on *Pongamia glabra*. Holotype in USNM, Paratypes in USNM as well as in author's collection).

Diagnosis : Dorsal shield 330 long, 200 wide, imbricate between dorsal and lateral setae, with 18 pairs of setae, Z_4 and Z_5 long, serrate ; other setae moderately long. Ventrianal shield longer than wide, lateral margins concave, with 4 pairs of setae. Chaetotaxy of genu II $2 \frac{2}{0} \frac{2}{1} 1$, genu III $1 \frac{2}{0} \frac{2}{1} 1$. Leg IV with macroseta only on basitarsus.

Male : Spermatophoral process with shank nearly twice as long as cheliceral fingers, slightly bifurcate at tip but with no foot, toe or lateral process.

Distribution : Pakistan.

221. *Typhlodromus (Amblydromella) mori* Gupta

1981. *Typhlodromus mori* Gupta, *Indian J. Acar.*, 5 : 39-40.

(Holotype ♀, India : Jammu & Kashmir, Udhampur, on mulberry. Paratypes 2 ♀ ♀, J. & K., Achhabal, on apple, all in ZSI).

1986. *Typhlodromus (Amblydromella) mori*, Gupta, Fauna of India (Acari: Mesostigmata) Family Phytoseiidae, p. 282-283.

Diagnosis : Dorsal shield 312 long, 172 wide, reticulate, with 18 pairs of setae. Measurements of setae : j_1 -12, j_4 - j_6 -16 each, J_2 -20, J_5 -8, j_3 -34, z_2 -16, z_3 -20, z_4 -20, s_4 -24, s_6 -24, S_2 , S_4 -27 each, S_5 -26, Z_5 -44, z_5 -16, Z_4 -28, r_3 -24, R_1 -16. Ventrianal shield 100 long, 80 wide,

with 4 pairs of preanal setae. Spermatheca with wide flask-shaped cervix. Macroseta on leg IV : genu-10 (Knobbed). tibia-16, basitarsus-36 (knobbed).

Male : Unknown.

Distribution : India (Jammu & Kashmir).

222. *Typhlodromus (Amblydromella) octavus*

(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Amblydromella octavus* Chaudhri, Akbar & Rasool, Rept. PL. 480 Project, UAL, p. 221.

(Holotype ♂, Pakistan : 1 mile south of Naran, 8500', Kaghan Valley, on *Crotoneaster bacillaris*, in UAL. Paratypes 11 ♀♀, same data and locality, on *Cornus macrophylla*, *Dryopteris filiales*, *Polygonum* sp., *Rheum* sp., *Urtica dioica* ; 3 ♀♀, Nathiagali, on *Youngia japonica* ; 3 ♀♀, Madyan, on *Cnicus* sp., *Dryopteris* sp., exemplary deposited in USNM).

Diagnosis : Dorsal shield reticulate, 306 long, 189 wide, concave near R_1 , with 18 pairs of setae and 3 pairs of pores, setae $z_2 = z_3 - z_3$; other setae shorter than distance to seta next in line ; $Z_4 > Z_4 - S_5$. Measurements of setae : $j_1 - 21$, $j_4 - 10$, $j_5 = j_6 - 13$ each, $J_2 - 18$, $J_5 - 8$, $j_3 = z_3 = 21$ each, $z_2 - 18$, $z_4 = s_4 - 23$ each, $s_6 - 29$, $S_2 - 34$, $S_4 - 36$, $S_5 - 34$, $Z_5 - 57$, $z_5 - 13$, $Z_4 - 34$, $r_8 - 27$, $R_1 - 18$. Metasternal setae on metasternal plates. Ventrianal shield 104 long, 88 wide, pentagonal, lateral margins concave, with 4 pairs of preanal setae and a pair of pores. Spermatheca sacular. Fixed digit of chelicera with 6 teeth, movable digit with 2 teeth. Macroseta on leg IV : basitarsus-44, simple.

Male : Unknown.

Distribution : Pakistan.

223. *Typhlodromus (Amblydromella) philippinus* Corpuz

1966. *Typhlodromus philippinus* Corpuz, *Philipp. Agric.*, 50 : 731-732.

(Holotype ♀, Philippines : Laguna Los Banos, College Campus, on *Asparagus plumosus*, in Dept. Ento. Univ. Philip. Paratypes 9 ♀♀, 1 ♂, same locality as for holotype, on *Casuarina epuissetifolia*, in Dept. Ento. Univ., Philip.).

Diagnosis : Dorsal shield notched at the level of R_1 , laterally reticulate, with 18 pairs of setae, all pointed except Z_5 with bulbous tip. Measurements of setae : $j_1 - 20$, $j_4 = j_5 - 12$ each, $j_6 = J_2 - 20$ each, $z_5 - 12$, $Z_4 - 34$, $j_3 - 20$, $z_2 = z_3 - 14$ each, $z_4 - 20$, $s_4 = s_6 - 24$ each, $S_2 = S_4 - 24$ each $S_5 - 8$, $Z_5 - 48$. Metasternal setae on triangular metasternal plates. Ventrianal shield longer than wide, constricted at mediolateral margin

with 4 pairs of preanal setae and a pair of pores. Fixed digit of chelicera with 3 teeth and *pilus dentilis*, movable digit with 3 teeth. Leg IV with macrosetae on genu, tibia and basitarsus ; that on tibia is half of that on genu.

Male : Chaetotaxy similar as in female, 240 long, 120 wide, Spermatophoral process L-shaped.

Distribution : Philippines.

224. *Typhlodromus (Amblydromella) rhenanus* (Oudemans)

1905. *Seiulus rhenanus* Oudemans, *Tij. Ent.*, 48 : 78.
(Holotype—?, Germany : Bonn, on rotting leaves, in Rijksmus. van Nat. Hist. Leiden).
1964. *Typhlodromus (Typhlodromus) rhenanus*, Narayanan & Ghai, *Proc. natn. Inst. Sci. India*, 29B(5) : 539-541. (New Delhi : on mango malformation).
1974. *Typhlodromus rhenanus*, Gupta, *Ent. Rec.*, 86 : 143.
1974. *Typhlodromus rhenanus*, Gupta & Dhooria, *Abstr. Indian Sci. Congr.*, 1974, p. 69. (Punjab & Himachal Pradesh).
1977. *Typhlodromus rhenanus*, Gupta, *Indian J. Acar.*, 1 : 12. (Punjab : mango).
1986. *Typhlodromus (Amblydromella) rhenanus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 285-287.

Diagnosis : Dorsal shield imbricate with 18 pairs of setae. Ventrianal shield triangular with 4 pairs of preanal setae and a pair of preanal pores. Macroseta present only on basitarsus IV.

Male : ?

Distribution : India (New Delhi, Punjab, Himachal Pradesh), Germany.

225. *Typhlodromus (Amblydromella) rhododendroni* Gupta

1978. *Typhlodromus rhododendroni* Gupta, *Bull. zool. Surv. India*, 1(1) : 50.
(Holotype ♀, Paratypes 2 ♀ ♀, India : Karnataka, Gundelpet, on *Rhododendron arboreum*, in ZSI).
1986. *Typhlodromus (Amblydromella) rhododendroni*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 287-288.

Diagnosis : Dorsal shield 272 long, 160 wide, reticulate, with 18 pairs of setae. Measurements of setae : j_1-16 , j_4-16 , j_5-18 , j_6-20 , J_2-25 , J_5-8 , j_3-15 , z_2-16 , z_3-20 , z_4-20 , s_4-24 , s_6-25 , S_2-26 , S_4-32 , S_5-44 , Z_5-44 , z_5-20 , Z_4-36 . Ventrianal shield 84 long, 60 wide, lateral margins concave, with 4 pairs of preanal setae. Macrosetae on leg IV-25 long.

Male : Unknown.

Distribution : India (Karnataka).

226. *Typhlodromus (Amblydromella) ryukyuensis* Ehara

1967. *Typhlodromus (Anthoseius) ryukyuensis* Ehara, *Mushi*, 40 : 69-71.
(Holotype ♀, Paratypes 7 ♀ ♀, 1 ♂, Japan : Okinawa Isl., on citrus, in Zool. Inst. Fac. Sci. Hokk. Univ.).
1970. *Typhlodromus (Anthoseius) ryukyuensis*, Ehara, *Mushi*, 43 : 55-56.
(Taiwan : *Calamus margaritiae* ; *Reevesia formosane*).

Diagnosis : Dorsal shield with conspicuous imbrication, with 18 pairs of setae. Measurements of setae : j_1-13 , j_4-11 , j_5-11 , j_6-13 , J_2-14 , J_5-8 , j_3-12 , z_2-12 , z_3-13 , z_4-13 , s_4-15 , s_6-17 , S_2-17 , S_4-15 , S_5-10 , Z_5-38 (stout, strongly serrate). Ventrianal shield pentagonal, longer than wide with 4 pairs of preanal setae and a pair of small transverse pores. Macroseta on leg IV : genu-11, tibia-13, basitarsus-15, mostly capitate or subcapitate.

Male : Ehara (1967) described it.

Distribution : Japan, Taiwan.

227. *Typhlodromus (Amblydromella) serrulatus* Ehara

1972. *Typhlodromus (Anthoseius) serrulatus* Ehara, *Mushi*, 46 : 142-143.
(Holotype ♀, Japan : Shiroyama, on *Zelkova serratae*. Paratypes 2 ♀ ♀, Hokkaido, Sapporo, *Jugulans ailanthifolia* ; 1 ♀ Mt. Hyonosen, Totton, on *Edgeworthia papyrifera* ; 1 ♀, Mt. Hyonosen, on willow ; 5 ♀ ♀, same data as for holotype, all in Biol. Inst. Fac. Ed. Tott. Univ.).
1977. *Typhlodromus (Anthoseius) serrulatus*, Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 45.
(Thailand : *Casuarina*, *Paederia foetida*, *Pinus kesiya*).

Diagnosis : Dorsal shield imbricate, with 18 pairs of setae and 5 pairs of pores. Measurements of setae : j_1-16 , j_4-13 , j_5-13 , j_6-16 , J_2-16 , J_5-9 , r_3-18 , R_1-15 , j_3-17 , z_2-15 , z_3-16 , z_4-17 , s_4-19 , s_6-21 , S_4-22 , S_5-15 , Z_5-42 , z_5-15 , Z_4-23 . Metasternal setae on plates. Ventrianal shield longer than wide, lateral margins concave, with 4 pairs of preanal setae and a pair of crescentic pores. Fixed digit of chelicera with teeth, movable digit with 3 teeth, genu II 2 $\frac{2}{0}$ $\frac{2}{0}$ 1, genu III 1 $\frac{2}{1}$ $\frac{2}{0}$ 1. Leg IV with macrosetae on genu-12, tibia-14, basitarsus-26.

Male : Unknown.

Distribution : Japan, Thailand.

228. *Typhlodromus (Amblydromella) sica*

(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Amblydromella sica* Chaudhri, Akbar & Rasool, Rept. PL. 480 Project, UAL, p. 221-224.
(Holotype ♀, Pakistan : Charrapani, 4000', Murree Hills, *Lespedeza juncea*, in UAL. Paratype 1 ♀, Mansehra, on *Mentha longifolia*, repository not mentioned).

Diagnosis : Dorsal shield partly and weakly reticulate, 286 long, 153 wide, concave near R_1 with 18 pairs of setae and 4 pairs of pores. Setae j_3-z_2 and z_2-z_3 shorter than setae next in line. Measurements of setae : j_1-16 , $j_4=j_5-16$ each, j_6-26 , J_2-31 , J_5-10 , j_3-z_3-23 each, z_2-16 , z_4-26 , s_4-31 , s_6-34 , $S_2=S_4-39$ each, S_5-8 , Z_5-44 , z_5-18 , Z_4-39 , r_3-18 , R_1-21 . Metasternal setae present on plates. Ventrianal shield 91 long, 55 wide, pentagonal, with 4 pairs of setae. Spermatheca sacular. Macroseta on leg IV : basitarsus-23, pointed.

Male : Unknown.

Distribution : Pakistan.

229. *Typhlodromus (Amblydromella) umbratus*

(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Amblydromella umbratus* Chaudhri, Akbar & Rasool, Rept. PL. 480 Project, UAL, p. 215-217.

(Holotype ♀, Pakistan : 3 miles north of Abbotabad, on *Punica granatum*, in UAL. Paratypes 3 ♀♀, same data as for holotype, on *Conyza stricta*, *Cupressus sempervirens*, *Prunus communis*, exemplary deposited in USNM).

Diagnosis : Dorsal shield reticulate, 316 long, 184 wide, concave near s_4 and R_1 , with 18 pairs of setae and 6 pairs of visible pores. Measurements of setae : j_1-11 , $j_4=j_5-16$ each, j_6-21 , J_2-23 , J_5-10 , j_3-18 , z_2-16 , $z_3=z_4-21$ each, s_4-23 , s_6-26 , $S_2=S_4-29$ each, S_5-18 , Z_5-49 (serrate with bulbous tip), z_5-18 , Z_4-34 , (serrate, pointed). Ventrianal shield 107 long, 78 wide, with 4 pairs of preanal setae and a pair of pores. Metasternal plates present. Spermatheca sacular with umbrella-like process. Macrosetae on leg IV : genu-16, tibia-16, basitarsus-36, all with bulbous tip.

Male : Unknown.

Distribution : Pakistan.

230. *Typhlodromus (Amblydromella) zafari* Chaudhri

1965. *Typhlodromus zafari* Chaudhri, *Acarologia*, 7(4) : 633-635.

(Holotype ♀, Pakistan : Lyallpur, on mulberry, in USNM. Paratype 1 ♀, same data as for holotype, in UAL).

Diagnosis : Dorsal shield 343 long, 202 wide, reticulate, with 18 pairs of setae. Measurements of setae : j_1-20 , j_4-10 , j_5-13 , j_6-15 , J_2-19 , J_5-10 , j_3-16 , z_2-14 , z_3-16 , z_4-22 , s_4-24 , s_6-25 , S_2-29 , S_4-30 , S_5-27 , Z_5-56 (weakly serrate), z_5-14 , Z_4-32 . Ventrianal shield longer (103)

than wide (78) with 4 pairs of preanal setae ; 2 pairs of metapodal plates. Leg IV with macrosetae on genu-20, tibia-20, basitarsus-34, all spatulate. Fixed digit of chelicera with 6 subapical teeth and *pilus dentilis*. Spermatheca with bell-shaped cervix and long neck.

Male : Unknown.

Distribution : Pakistan.

In addition to the above species, some more species are known but could not be included in key for the same reasons as mentioned for *Amblyseius* (*Amblyseius*) spp. on page 14.

231. *Typhlodromus* (*Amblydromella*) *arunachalensis* Gupta

Typhlodromus (*Amblydromella*) *arunachalensis* Gupta, *Oriental Ins.*

1986. *Typhlodromus* (*Amblydromella*) *arunachalensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 265-267.

Diagnosis : Dorsal shield reticulate, 302 long, 146 wide with 18 pairs of setae. Measurements of setae : j_1 -14, j_4 -9, j_5 -11, j_6 -14, J_2 -15, J_5 -4, j_3 -13, z_2 -10, z_3 -11, z_4 -13, s_4 -15, s_6 -22, S_2 -22, S_4 -24, S_5 -12, Z_5 -47, z_5 -13, Z_4 -34, r_3 , R_1 -13, each. Ventrianal shield 78 long, 78 wide, with 4 pairs of preanal setae. Macrosetae on leg IV : basitarsus-35.

Male : Gupta (1986) described it.

Distribution : India (Arunachal Pradesh).

232. *Typhlodromus* (*Amblydromella*) *husaini* Khan

1970. *Typhlodromus husaini* Khan, *Sci. Ind.*, 7 : 276-279.

(Holotype ♀, Pakistan : on mango, repository unknown).

Diagnosis : Due to non availability of original literature, no information in this regard can be given.

Male : Unknown.

Distribution : Pakistan.

233. *Typhlodromus* (*Amblydromella*) *incasus* (Chaudhri)

1975. *Amblydromella incasus* Chaudhri, *Pak. J. Agr. Sci.*, 12(3-6) : 206.

(Holotype ♀, Pakistan : Lyallpur, on *Datura innoxia*, in UAF ; other collections : 3 ♀ ♀, Pakistan, Cheechawatni forest, on *Aerua javanica* ; 1 ♀, Rajana forest, on *Achyranthes aspera*).

Diagnosis : Dorsal shield 344 long, 196 wide, with 18 pairs of setae and 3 pairs of pores. Measurements of setae : j_1 -18, j_4 -18, j_5 -20, j_6 -22,

J_2 -26, J_5 -8, $j_3 = z_2 = 22$ each, $z_3 = z_4 = 25$ each, s_4 -27, s_6 -29, S_2 -30, S_4 -31, S_5 -21, Z_5 -47, z_5 -20, Z_4 -31, r_3 -22, R_1 -24. Ventrianal shield with 4 pairs of preanal setae. Leg IV with macroseta on basitarsus with bulbous tip.

Male : Not known.

Distribution : Pakistan.

234. *Typhlodromus (Amblydromella) jackmickleyi*

1982. *Typhlodromus jackmickleyi*, Oomen, In Veenman & Zonen, Wagenengen, p. 89.

Distribution : Indonesia.

235. *Typhlodromus (Amblydromella) libitus* (Chaudhri)

1975. *Amblydromella libitus* Chaudhri, *Pak. J. Agr. Sci.*, 12(3-4) : 212.

(Holotype ♀, Pakistan : UAF campus, on wheat, in UAF).

Diagnosis : Dorsal shield 332 long, 160 wide with 18 pairs of setae, all setae thorn-like except Z_5 and Z_4 which are serrate. Measurements of setae : j_1 -24, j_4 -19, j_5 -21, j_6 -34, J_2 -39, J_5 -10, j_3 -24, z_2 -22, z_3 -27, z_4 -34, s_4 -41, s_6 -44, S_2 -51, S_4 -49, S_5 -8, Z_5 -58, z_5 -22, Z_4 -59, r_3 -24, R_1 -27. Ventrianal shield 100 long, 60 wide. Macroseta on basitarsus IV-24.

Male : Unknown.

Distribution : Pakistan.

Remarks : Chaudhri *et al.* (1979) re-described it.

236. *Typhlodromus (Amblydromella) limitatus*

(Chaudhri, Akbar & Rasool)—New Comb.

1979. *Amblydromella limitatus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAF, p. 35.

(Holotype ♀, Pakistan : Bhalwal, on *Gossypium hirsutum*, in UAF).

Diagnosis : Dorsal shield without reticulation, 260 long, 135 wide, with 18 pairs of setae ; Z_5 and Z_4 with bulbous tip and serrate ; others smooth. Measurements of setae : j_1 -13, j_4 - j_5 -13 each, j_6 -12, J_2 -11, J_5 -10, $j_3 = z_2 = z_3 = z_4$ -13 each, s_4 -18, s_6 -35, S_2 -19, S_4 -23, S_5 -13, Z_5 -31, z_5 -13, Z_4 -31, r_3 , R_1 -18 each. Ventrianal shield not clear. Macrosetae on leg IV ; genu-10, tibia-12, basitarsus-30, all with bulbous tip.

Male : Unknown.

Distribution : Pakistan.

237. *Typhlodromus (Amblydromella) maracus* (Chaudhri)

1975. *Amblydromella maracus* Chaudhri, *Pak. J. Agr. Sci.*, 12(3-4) : 208.

(Holotype ♀, Pakistan : UAF campus, on mango, in UAF).

1979. *Amblydromella maracus*, Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAF, p. 36-39.

Diagnosis : Dorsal shield 364 long, 200 wide, all dorsal setae simple except Z_5 and Z_4 which are serrate ; Z_5 with bulbous tip. Measurements of setae : j_1 -20, j_4 - j_5 -14 each, j_6 -20, J_2 -24, J_5 -10, j_3 -24, z_2 -14, $z_3 = z_4 = s_4$ -24 each, s_6 -27, S_2 - S_4 -31 each, S_5 -24, Z_5 -41, z_5 -14, Z_4 -34, r_3 -20, R_1 -22. Ventrianal shield rectangular, 122 long, 75 wide, with 4 pairs of preanal setae. Macroseta on basitarsus IV-22 (bulbous).

Male : Unknown.

Distribution : Pakistan.

238. *Typhlodromus (Amblydromella) nidibu* Pritchard & Baker

1962. *Typhlodromus (Neoseiulus) nidibu* Pritchard & Baker, *Hilgardia*, 33(7) : 221.

(Holotype ♀, Belgian Congo : Mulunga, on Australian pine, in USNM. Paratypes 9 ♀ ♀, Belgian Congo, Kysenyi, on *Acacia* sp. ; 5 ♀ ♀, Stanleyville, on *Bridelia* sp. ; 1 ♂, Mulunga, on Australian pine ; 1 ♀, Leopoldville, on raffia palm ; 2 ♀ ♀, Leopoldville, on *Combretum* sp. ; 1 ♀, Leopoldville, on tree ; 1 ♀, Nioka, on *Vernonia* sp. ; 1 ♂, Ruanda Urundi, on *Acacia cyanophylla*, all in USNM).

1982. *Typhlodromus nidibu*, Oomen, In Veenman & Zonen, Wagenengen, p. 89.

Diagnosis : Dorsal shield irregularly octiculate, with 18 pairs of setae. Prolateral setae slightly bent, progressively increasing in length. Ventrianal shield with lateral margins concave. Spermatheca with elongate triangulate cervix ; slender atrium. Genu IV with capitate macroseta ; tibia IV with also a capitate macroseta ; basitarsus IV with long capitate macroseta.

Male : It was described by Pritchard & Baker (1962).

Distribution : Africa (Belgian Congo), Indonesia.

239. *Typhlodromus (Amblydromella) nilgiriensis* Gupta

1986. *Typhlodromus (Amblydromella) nilgiriensis* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 283-285.

(Holotype ♀, India : Tamil Nadu, Top slip, on undet. tree, in ZSI).

Diagnosis : Dorsal shield 355 long, 212 wide, smooth, well sclerotized with 18 pairs of setae and 6 pairs of pores. Measurements of setae : j_1 -22, j_4 -22, j_5 -22, j_6 -29, J_2 -40, J_5 -5, j_3 -35, z_2 -11, z_3 -44, z_4 -22,

s_4 -49, s_6 -49, S_2 -50, S_4 -33, S_5 -29, Z_5 -78 (serrate), z_5 -26, Z_4 -49 (serrate), r_3 , R_1 -25-26. Ventrianal shield 112 long, 100 wide, with 4 pairs of preanal setae. Macrosetae on leg IV : genu-39, tibia-33, basitarsus-62, all knobbed.

Male : Unknown.

Distribution : India (Tamil Nadu).

240. *Typhlodromus (Amblydromella) ornatulus* (Chaudhri)

1975. *Amblydromella ornatulus* Chaudhri, *Pak. J. Agr. Sci.*, 12(3-4) : 201.

(Holotype ♀, Pakistan : UAF campus, on mango, in UAF).

Diagnosis : Dorsal shield 306 long, 160 wide, deeply concave near S_2 , with 18 pairs of setae ; mostly slightly re-curved. Measurements of setae : j_1 -22, j_4 - j_5 -25 each, J_2 -37, J_5 -10, j_3 -32, z_2 -24, z_3 -31, z_4 -34, s_4 -57, s_6 -44, S_2 -55, S_4 -51, S_5 -10, Z_5 -51, z_5 -26, Z_4 -57, $r_3 = R_1 = 27$ each. Spermathecal atrium hammer-like, cervix bell-shaped. Macroseta on basitarsus IV-31.

Male : Unknown.

Distribution : Pakistan.

241. *Typhlodromus (Amblydromella) platycladus*

Jie-liu, Lai-rong & Li-sheng

1980. *Typhlodromus platycladus* Jie-liu, Lai-rong & Li-sheng, *Fudan J. (Nat. Sci.)*, 19(4) : 472.

(Holotype ♀, South China : Jiangsu Zhenjiang, on *Platycladus orientalis*).

Diagnosis : Dorsal shield with 18 pairs of setae. Measurements of setae : j_1 -19, j_4 -17, j_5 -17, j_6 -22, J_2 -24, J_5 -11, j_3 -24, z_2 -19, z_3 -22, z_4 -24, s_4 -24, s_6 -28, S_2 -28, S_4 -35, S_5 -30, Z_5 -48, z_5 -19, Z_4 -33, r_3 -19, R_1 -22, JV_5 -33.

Male : ?

Distribution : South China.

242. *Typhlodromus (Amblydromella) serratus* (Chaudhri)

1975. *Amblydromella serratus* Chaudhri, *Pak. J. Agr. Sci.*, 12(3-6) : 204.

(Holotype ♀, Pakistan : Dapher Forest Plantation, on *Withania somnifera*, in UAF).

1979. *Amblydromella serratus*, Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAF, p. 35-36.

Diagnosis : Dorsal shield 347 long, 210 wide, with 18 pairs of setae. All dorsal setae shorter than setae next in line. Measurements of setae : j_1 -18, j_4 - j_5 -10 each, j_6 -13, J_2 -16, J_5 -10, j_3 - z_2 =13 each, z_4 = s_4 -16 each, s_6 = S_2 -18 each, S_4 = S_5 -29 each, Z_5 -31, z_5 -10, Z_4 -21, r_3 -13, R_1 -18. Ventrianal shield 120 long, 94 wide, with 4 pairs of preanal setae. Spermatheca sacular. Macroseta on basitarsus IV-23 (knobbed).

Male : Unknown.

Distribution : Pakistan.

243. *Typhlodromus (Amblydromella) sonprayagensis* Gupta

1985. *Typhlodromus (Amblydromella) sonprayagensis* Gupta, *Entomon*, 10(3) : 211-213. (Holotype ♀, Paratype 1 ♀, India : Uttar Pradesh, Sonprayag, on pear, in ZSI).
1986. *Typhlodromus (Amblydromella) sonprayagensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 289.

Diagnosis : Dorsal shield well sclerotized, reticulate, 360 long, 213 wide, with 18 pairs of setae. Measurements of setae : j_1 -14, j_4 -14, j_5 -16, J_2 -20, J_5 -6, j_3 -22, z_2 -16, z_3 -20, z_4 -18, s_4 -22, s_6 -22, S_2 -27, S_4 -27, S_5 -20, Z_5 -45, z_5 -16, Z_4 -25, r_3 -22, R_1 -18. Ventrianal shield 112 long, 85 wide, with 4 pairs of preanal setae and a pair of preanal pores. Macrosetae on leg IV : genu-14, tibia-16, basitarsus-35, all with bulbous tip.

Male : Unknown.

Distribution : India (Uttar Pradesh).

Subgenus *Anthoseius* De Leon

244. *Typhlodromus (Anthoseius) majumderi* Gupta

1986. *Typhlodromus (Anthoseius) majumderi* Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 291. (Holotype ♀, Paratype 1 ♀, India : West Bengal, Kalyani, on *Heliotropium indicum*, in ZSI).

Diagnosis : Dorsal shield gently reticulate, deeply incised at the level of R_1 with 18 pairs of setae, all being smooth and simple. Measurements of setae : j_1 -10, j_4 -11, j_5 -12, j_6 -12, J_2 -12, J_5 -9, j_3 -12, z_2 -10, z_3 -12, z_4 -15, s_4 -10, s_6 -14, S_2 -15, S_4 -12, S_5 -14, Z_5 -16 (slightly thicker, smooth), Ventrianal shield much longer (123) than wide (90) with 3

pairs of preanal setae and a pair of preanal pores. Macroseta absent on leg IV.

Male : Unknown.

Distribution : India (West Bengal).

Subgenus **Brethria** Tuttle & Muma

Key to the species of **Brethria**

- | | | |
|--|-----|-------------------|
| 1. Ventrianal shield very long, almost 2 times as long as wide, lateral margins straight | ... | <i>roshanlali</i> |
| — Ventrianal shield only slightly longer than wide, lateral margins slightly concave | ... | <i>confusus</i> |

245. **Typhlodromus (Brethria) confusus** Narayanan, Kaur & Ghai

1960. *Typhlodromus (Typhlodromus) confusus* Narayanan, Kaur & Ghai, *Proc. natn. Inst. Sci. India*, 26B : 392-393.
(Holotype ♀, India : Delhi, sunflower, in NPC).
1986. *Typhlodromus (Brethria) confusus*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 293-294.

Diagnosis : Dorsal shield faintly reticulate, with 17 pairs of setae, all setae smooth except Z_5 and Z_4 which are thick and serrate. Setae j_3 , z_3 , z_4 almost equal ; S_2 and S_5 almost equal ; z_2 shorter. Ventrianal shield longer than broad. No macroseta on leg IV.

Male : Unknown.

Distribution : India (Delhi).

246. **Typhlodromus (Brethria) roshanlali** Narayanan & Ghai

1964. *Typhlodromus (Typhlodromus) roshanlali* Narayanan & Ghai, *Proc. natn. Inst. Sci. India*, 29 B(5) : 539.
(Holotype not designated ; described from 4 ♀ ♀, 3 ♂ ♂, collected from New Delhi, on malformed mango tree, in NPC).
1986. *Typhlodromus (Brethria) roshanlali*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 294-296.

Diagnosis : Dorsal shield reticulate with 17 pairs of setae, all being smooth. Measurements of setae : j_1 -24, j_4 -20, j_5 -20, j_6 -32, J_2 -44, J_5 -8, j_3 -16, z_2 -23, z_3 -31, z_4 -31, s_4 -33, s_8 -45, S_2 -50, S_4 -42, Z_5 -50, z_5 -20, Z_4 -56. Ventrianal shield longer (124) than broad, with 4 pairs of preanal setae and a pair of pores. Macroseta absent on leg IV.

Male : Narayanan & Ghai (1964) described it.

Distribution : India (New Delhi).

Subgenus **Calvidromus** Muma247. **Typhlodromus (Clavidromus) neotransvaalensis** Gupta

1978. *Typhlodromus neotransvaalensis* Gupta, *Bull. zool. Surv. India*, 1(1) : 49-50.
(Holotype ♀, India : Tamil Nadu, Ooty, *Casuarina*. Paratype 1 ♀, Aruvankadu, on tea, all in ZSI).
1986. *Typhlodromus (Clavidromus) neotransvaalensis*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 296-297.

Diagnosis : Dorsal shield heavily sculptured, 328 long, 190 wide, with 18 pairs of setae, all being weakly serrate. Measurements of setae : j_1 - j_6 , J_2 -16-20 each, J_5 -12, j_3 , z_2 , z_4 -18 each, s_4 -20, s_6 -24, S_2 -20, S_4 -24, S_5 -25, Z_5 -36, z_5 -18, Z_4 -28. Ventrianal shield 112 long, 92 wide, smooth with 4 pairs of preanal setae. Spermatheca with flask-shaped cervix. Macrosetae on leg IV : genu-16, tibia-20, basitarsus-26, all with flattened tip.

Male : Unknown.

Distribution : India (Tamil Nadu).

Subgenus **Chiliseius** Gonzalez & Schuster248. **Typhlodromus (Chilisetus) licini** (Tseng)

1976. *Chiliseius (Chiliseius) licini* Tseng, *J. Agr. Ass. China*, 94 : 85-128.

Diagnosis : Due to non-availability of original literature, these particulars could not be provided.

Male : Unknown.

Distribution : Taiwan.

249. **Typhlodromus (Chiliseius) separalus** Wei-nan & Zhao-Quan

1985. *Typhlodromus (Chiliseius) separatus* Wei-nan & Zhao-Quan, *Acta Zootaxonomica Sinica*, 10(4) : 394-395.
(Holotype ♀, Paratypes 3 ♀ ♀, South China : Jinafenglang, Hainan Isl., on *Rhus* sp.).

Diagnosis : Dorsal shield 305-310 long, 195-200 wide, with 18 pairs of setae. Measurements of setae : j_1 -20-23, j_4 -5-7, j_5 -6-7, j_6 -7-0, J_2 -8-10, J_5 -5-6, j_3 -21-26, z_2 -5, z_3 -10, z_4 -7-11, s_4 -12, s_6 -7-10, S_2 -10, S_4 -10, S_5 -5, Z_5 -125-132, z_5 -7, Z_4 -10-12, r_3 , R_1 -7 each.

Male : Unknown.

Distribution : South China.

250. **Typhlodromus (Chiliseius) tengi** Wei-nan & Zhao-Quan

1985. *Typhlodromus (Chiliseius) tengi* Wei-nan & Zhao-Quan, *Acta Zootaxonomica Sinica*, 10(4) : 393-394.

(Holotype ♀, Paratypes 2 ♀ ♀, South China : Jinafengling, Hainan Isl., Guangdong Province, on *Sophora* sp.).

Diagnosis : Dorsal shield 295-310 long, 240-250 wide. Measurements of setae : j_1 -5, j_4 -5-7, j_5 -5-7, j_6 -8, J_2 -10, J_5 -7-10, j_3 -20-22, z_2 -6-7, z_3 -10, z_4 -10, s_4 -52, s_6 -10, S_2 -10, S_4 -8-10, S_5 -7-8, Z_5 -150, z_5 -11, Z_4 -72-80, r_3 -7-8, JV_5 -20-25.

Male : Unknown.

Distribution : South China.

Subgenus **Metaseiulus** Muma251. **Typhlodromus (Metaseiulus) contiguus** Chant

1959. *Typhlodromus (Typhlodromus) contiguus* Chant, *Can. Ent.*, 91 : 29-31.

(Holotype ♀, Hong Kong : Taipai, on citrus, in Canadian National Collection. Paratype-? in USNM and Citrus Expt. Sta., Riverside, California).

1966. *Typhlodromus (Typhlodromus) contiguus*, Ehara, *Mushi*, 39 : 20. (Philippines).

Diagnosis : Dorsal shield with 16 pairs of setae, 8 pairs in lateral rows. Setae j_1 , j_3 , z_3 , s_4 , s_6 , S_5 and Z_4 long, other setae minute. Measurements of setae : j_1 -23, j_4 -5, j_5 -5, j_6 -8, J_2 -9, J_5 -7, r_3 -13, R_1 -8, j_3 -42, z_2 -6, z_3 -59, z_4 -7, s_4 -73, s_6 -69, S_2 -9, Z_5 -130, z_5 -6, Z_4 -73. Ventrianal shield with 4 pairs of preanal setae. Macrosetae on leg IV : genu-29, tibia-31, basitarsus-35.

Male : Dorsal chaetotaxy similar as in female.

Distribution : Hong Kong, Japan, Philippines.

Subgenus **Orientiseius** Muma & Denmark*Key to the species of Orientiseius*

1. Dorsal shield incised near R_1	...	2
— Dorsal shield not incised near R_1	...	6
2. z_2 longer than z_2 - z_3	...	<i>samliensis</i>
— z_2 shorter than z_2 - z_3	...	3
3. Macrosetae capitate	...	<i>thailandicus</i>
— Macrosetae simple	...	4

4. $j_6 1\frac{1}{2}$ times as long as j_5	...	<i>orissaensis</i>
— j_6 nearly $\frac{1}{2}$ or less than $\frac{1}{2}$ of j_5	...	5
5. z_4 slightly longer than z_2	...	<i>rickeri</i>
— z_4 2 times as long as z_2	...	<i>hadii</i>
6. z_3 only 2 times as long as z_2	...	<i>manipurensis</i>
— z_3 over 4 times as long as z_2	...	7
7. Macroseta present only on basitarsus IV	...	<i>channabasavannai</i>
— Macrosetae present on genu, tibia and basitarsus of leg IV	...	8
8. j_6 only slightly longer than j_5	...	<i>pruni</i>
— j_6 much longer, 2 times of j_5	...	9
9. z_4 much shorter than z_4-s_4 , Z_4 reaches only upto the base of S_5	...	<i>lalazariensis</i>
— z_4 reaches upto base of s_4 , Z_4 extends beyond the base of S_5	...	<i>agilis</i>

252. *Typhlodromus (Orientiseius) agilis*
(Chaudhri)—New Comb.

1975. *Orientiseius agilis* Chaudhri, *Pak. J. Zool.*, 7(2) : 189-190.

(Holotype ♀, Pakistan : 2 miles north of Havelian, on *Rubus* sp., in UAL).

Diagnosis : Dorsal shield 316 long, 153 wide, smooth, without concavity near R_1 with 18 pairs of setae and 5 pairs of pores. Measurements of setae : j_1 -23, j_4 -23, j_5 -21, j_6 -29, J_2 -36, J_5 -5, j_3 -47, z_2 -16, z_3 -53, z_4 -18, s_4 -60, s_6 -65, S_2 -60, S_4 -36, S_5 -16, Z_5 -57, z_5 -5, r_3 -29 each, R_1 -18, Z_4 extends beyond base of Z_5 . Ventrianal shield 104 long, 73 wide, with 4 pairs of preanal setae. Leg IV macrosetae on genu-34, tibia-26, basitarsus-52.

Male : Unknown.

Distribution : Pakistan.

253. *Typhlodromus (Orientiseius) channabasavannai* Gupta

1978. *Typhlodromus channabasavanni* Gupta, *Bull. zool. Surv. India*, 1(1) : 50-52.

(Holotype ♀, India : Tamil Nadu, Aruvankadu, on tea, in ZSI).

1986. *Typhlodromus (Orientiseius) channabasavannai*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 298-300.

Diagnosis : Dorsal shield 300 long, 160 wide, with 18 pairs of setae, all being smooth and pointed. Measurements of setae : j_1 -16, j_4 - j_5 -8 each, j_6 - J_2 -18 each, J_5 -6, j_3 -36, z_2 -8, z_3 -36, z_4 -8, s_4 -43, s_6 -48, S_2 -48, S_3 -32, S_5 -12, Z_5 -70, z_5 -8, Z_4 -56. Ventrianal shield much longer

(100) than wide (72) with 4 pairs of preanal setae. Spermatheca with funnel-shaped cervix. Macroseta on basitarsus IV-56 long.

Male : Unknown.

Distribution : India (Tamil Nadu).

254. *Typhlodromus (Orientiseius) hadii* Chaudhri

1965. *Typhlodromus hadii* Chaudhri, *Acarologia*, 7 : 632-633.

(Holotype ♀, Pakistan, Behrain (Swat State), on fig. in UAL).

1981. *Typhlodromus kashmiricus* Gupta, *Indian J. Acar.*, 5 : 37-38.

1986. *Typhlodromus (Orientiseius) hadii*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 300-302.

Diagnosis : Dorsal shield 343 long, 174 wide with 18 pairs of setae and 6 pairs of pores. Measurements of setae : j_1 -23, j_4 -6, j_5 -8, j_6 -16, J_2 -16, J_5 -6, j_3 -43, z_2 -8, z_3 -55, z_4 -20, s_4 -55, s_6 -61, S_2 -53, S_4 -43, S_5 -35, Z_5 -74 (weakly serrate), z_5 -6, Z_4 -59, r_3 -27, R_1 -31. Ventrianal shield 109 long, 74 wide, with 4 pairs of preanal setae. Leg IV with macrosetae on genu-39, tibia-35 and basitarsus-61. Fixed digit of chelicera with 2 subapical teeth. Macrosetae on leg IV : genu-24-30, tibia-32-35, basitarsus-40-50.

Male : Unknown.

Distribution : Pakistan.

255. *Typhlodromus (Orientiseius) lalazariensis*

(Chaudhri)—New Comb.

1975. *Orientiseius lalazariensis* Chaudhri, *Pakistan J. Zool.*, 7(2) : 187-189.

(Holotype ♀, Pakistan : Lalazar, 1000' (Kaghan Valley), on *Abies pindrow*, in UAL).

Diagnosis : Dorsal shield 347 long, 194 wide, with 18 pairs of setae and 5 pairs of pores. Measurements of setae : j_1 -5, j_4 -5, j_5 -10, j_6 -16, J_2 -26, J_5 -5, j_3 -42, z_2 -13, z_3 -39, z_4 -13, s_4 -36, s_6 -34, S_2 -34, S_4 -29, S_5 -16, Z_5 -55 (weakly serrate), z_5 -5, Z_4 -36, (nearer to S_4 than to S_5), r_3 -26, R_1 -21. Ventrianal shield 117 long, 99 wide, with 4 pairs of preanal setae, concave medioanteriorly. Leg IV with macrosetae on genu-26, tibia-36 and basitarsus-70.

Male : Unknown.

Distribution : Pakistan.

256. *Typhlodromus (Orientiseius) manipurensis* Gupta

1977. *Typhlodromus manipurensis* Gupta, *Indian J. Acar.*, 2 : 1-2.
(Holotype ♀, India : Manipur, Mao, on undet. plant. Paratypes 3 ♀ ♀, same data as for holotype, all in ZSI).
1986. *Typhlodromus (Orientiseius) manipurensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 302-304.

Diagnosis : Dorsal shield 288 long, 160 wide, with 18 pairs of setae, all being smooth and simple ; Z_5 longest 52, other setae measure : j_1 -20, j_4 -8, j_5 -12, j_6 -16, J_2 -16, J_5 -6, j_3 -12, z_2 -8, z_3 -18, z_4 -18, s_4 -24, s_6 -32, S_2 -32, S_4 -24, S_5 -20, z_5 -12, Z_4 -32. Ventrianal shield longer (88) than wide (69) with 4 pairs of preanal setae and a pair of preanal pores. Spermatheca with thick broad cervix. Macrosetae on leg IV : genu-25, tibia-28, basitarsus-56.

Male : Unknown.

Distribution : India (Manipur).

257. *Typhlodromus (Orientiseius) orissaensis* Gupta

1977. *Typhlodromus orissaensis* Gupta, *Indian J. Acar.*, 2 : 4-6.
(Holotype ♀, India : Orissa, Angul, on undet. plant, in ZSI).
1986. *Typhlodromus (Orientiseius) orissaensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 304-305.

Diagnosis : Dorsal shield 280 long, 148 wide, with 18 pairs of setae, all being smooth and slender. Measurements of setae : j_1 -24, j_4 -26, j_5 -33, j_6 -48, J_2 -54, J_5 -5, j_3 -44, z_2 -6, z_3 -53, z_4 -24, s_4 -53, s_6 -64, S_2 -62, S_4 -40, S_5 -16, Z_5 -64, z_5 -16, Z_4 -56. Ventrianal shield 88 long, 76 wide, lateral margins deeply concave with 4 pairs of preanal setae. Spermatheca with thick long cervix. Macrosetae on leg IV : genu-10, tibia-14, basitarsus-36.

Male : Unknown.

Distribution : India (Orissa).

258. *Typhlodromus (Orientiseius) pruni* Gupta

1970. *Typhlodromus pruni* Gupta, *Oriental Ins.*, 4(2) : 189-190.
(Holotype ♀, Paratype 1 ♀, India : West Bengal, Kalimpong, on *Prunus persica*, in ZSI).
1986. *Typhlodromus (Orientiseius) pruni*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 305-307.

Diagnosis : Dorsal shield reticulate, 328 long, 170 wide, with 18 pairs of setae. Measurements of setae : j_1 -27, j_4 -4, j_5 -5, j_6 -7, J_2 -91,

J_5 -4, j_3 -36, z_2 -5, z_3 -45, z_4 -6, s_4 -45, s_6 -48, S_2 -27, S_4 -14, S_5 -9, Z_5 -76, z_5 -5, Z_4 -36. Ventrianal shield 100 long, 72 wide, with 4 pairs of preanal setae and a pair of preanal pores. Macrosetae on leg IV : genu 40, tibia-27, basitarsus-46.

Male : Unknown.

Distribution : India (West Bengal).

259. *Typhlodromus (Orientiseius) rickeri* Chant

1960. *Typhlodromus (Typhlodromus) rickeri* Chant, *Can. Ent.*, 92 : 62-64.

(Holotype ♀, Paratypes 3 ♀♀, 1 ♂, 2 Proto, 2 Deuto, India : Shillong, on citrus, in Canadian National Collection, Belleville. Paratypes 4 ♀♀, 1 ♂, 1 Proto, India : Bangalore, on citrus, in Citrus, Exp. Sta., Riverside, California).

1977. *Typhlodromus rickeri*, Gupta, *Indian J. Acar.*, 2 : 6. (Nagaland : Undet. plant).

1986. *Typhlodromus (Orientiseius) rickeri*, Gupta, *Fauna of India (Acar: Mesostigmata) Family Phytoseiidae*, p. 307-310.

Diagnosis : Dorsal shield 280 long, 160 wide, with 18 pairs of setae. Measurements of setae : j_1 -20, j_4 -12, j_5 -24, j_6 -24, J_2 -32, J_5 -6, j_3 -44, z_2 -8, z_3 -52, z_4 -10, s_4 -60, s_6 -66, S_2 -61, S_4 -36, S_5 -16, Z_5 -76, z_5 -8, Z_4 -60. Ventrianal shield 92 long, 64 wide, pentagonal, with 4 pairs of preanal setae. Spermatheca with funnel-shaped cervix. Macroseta on leg IV : genu-32, tibia-28, basitarsus-48.

Male : Chant (1960) gave a brief description of male.

Distribution : India (Meghalaya, Karnataka, Nagaland), U. S. A. (introduced).

260. *Typhlodromus (Orientiseius) samliensis*

(Chaudhri)—New Comb.

1975. *Orientiseius samliensis* Chaudhri, *Pakistan J. Zool.*, 7(2) : 185-187.

(Holotype ♀, Pakistan : Samli, 4000' (Murree Hills), on *Prunus persica*, in UAL. Paratypes 1 ♀, Abbotabad, on *Zizyphus* sp. ; 1 ♀, Nathiagali, on *Abies pindrow* ; 2 ♀♀, Madyan, on *Dryopteris* sp. and *Spiraea lindleyana* ; exemplary deposited in USNM).

Diagnosis : Dorsal shield 357 long, 194 wide, deeply concave near R_1 , with 18 pairs of setae and 8 pairs of pores. Measurements of setae : j_1 -5, j_4 -5, j_5 -16, j_6 -18, J_2 -29, J_5 -5, j_3 -49, z_2 -13, z_3 -49, z_4 -13, s_4 -57, s_6 -60, S_2 -55, S_4 -39, S_5 -31, Z_5 -75 (weakly serrate), z_5 -5, Z_4 -51, (nearer to S_4 than to S_5), r_3 -34, R_1 -29. Ventrianal shield 120 long, 86 wide, with 4 pairs of preanal setae, constricted laterally.

Metapodal plates 2 paired. Spermatheca with bell-shaped cervix. Chelicera with 4 teeth on fixed digit and 2 teeth on movable digit. Leg IV with macrosetae on genu-42, tibia-39, basitarsus-62.

Male : Unknown.

Distribution : Pakistan.

261. *Typhlodromus (Orientiseius) thailandicus*

Ehara & Bhandhufalck

1977. *Typhlodromus (Anthoseius) thailandicus* Ehara & Bhandhufalck, *J. Fac. Ed. Tottori Univ. Nat. Sci.*, 27(2) : 44-45.

(Holotype ♀, Thailand : Mang, on persimmon. Paratypes 5 ♀ ♀, same data as for holotype ; 1 ♀, Fang, on citrus ; 1 ♀, Fang, on peach, all in Biol. Inst. Fac. Ed., Tott. Univ).

Diagnosis : Dorsal shield 340 long, 230 wide, reticulate laterally, with 5 pairs of pores and 18 pairs of setae. Measurements of setae : j_1 -22, j_4 -17, j_5 -19, j_6 -25, J_2 -29, J_5 -6, j_3 -37, z_2 -16, z_3 -34, z_4 -32, s_4 -43, s_6 -50, S_2 -51, S_4 -31, S_5 -29, Z_5 -73, z_5 -19, Z_4 -53, r_3 -23, R_1 -18. Metasternal plate with seta present. Ventrianal shield pentagonal, longer than wide, transversely striated with 4 pairs of setae and a pair of pores. Genu II 2 $\frac{2}{0}$ $\frac{2}{0}$ 1, Genu III 1 $\frac{2}{0}$ $\frac{2}{0}$ 1. Macrosetae on leg IV : genu-42, tibia-27, basitarsus-47, all capitate.

Male : Unknown.

Distribution : Thailand.

Subgenus *Paraseiulus* Muma

Key to the species of *Paraseiulus*

1. All dorsal setae serrate	...	<i>comptus</i>
— Dorsal setae not serrate	...	2
2. Dorsal shield deeply concave near s_6 and R_1	...	<i>vitreus</i>
— Dorsal shield deeply concave only near R_1	...	3
3. Macroseta absent on leg IV	...	5
— Macroseta present on basitarsus IV	...	4
4. Distal tip of peritreme slightly recurved	...	<i>operantis</i>
— Distal tip of peritreme not recurved	...	<i>neosoleiger</i>
5. Ventrianal shield much narrower than width at the anal level	...	<i>trimediosetus</i>
— Anterior margin of ventrianal shield as wide as anal region	...	<i>ignavus</i>

262. *Typhlodromus (Paraseiulus) comptus* Corpuz

1966. *Typhlodromus comptus* Corpuz, *Philipp. Agric.*, 50 : 729-730.

(Holotype ♀, Paratype 1 ♀, Philippines : Laguna, Los Banos, College campus, on *Casuarina equisetifolia*, in Dept. Ento., Univ. Philip.).

Diagnosis : Dorsal shield slender, heavily imbricate, 320 long, 168 wide, with 18 pairs of setae ; r_3 also on dorsal shield. All the setae except J_5 short, thickened and pilose. Sternal shield with 2 pairs of setae ; 3rd pair on membrane, 4th pair on metasternal plates. Ventrianal shield triangular, slightly longer than wide, fine reticulations ; with 4 pairs of preanal setae. Fixed digit of chelicera with 4 teeth and a *pilus dentilis*, movable digit with 1 tooth.

Male : Unknown.

Distribution : Philippines.

263. *Typhlodromus (Paraseiulus) ignavus* (Chaudhri, Akbar & Rasool)—New Comb.

1974. *Paraseiulus ignavus* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAL, p. 228-231.

(Holotype ♀, Pakistan : 2 miles north of Ughi, on *Prunus armenica*, in UAL).

Diagnosis : Dorsal shield, reticulate, 357 long, 224 wide, deeply concave near R_1 with 19 pairs of setae ; setae shorter than distance of setae next in line. Measurements of setae : j_1 -10, j_4 - j_5 -13 each, j_6 -16, J_2 -18, J_5 -10, $z_5 = z_6$ -13 each, Z_4 -23, $j_3 = z_3 = s_4 = s_6$ -16 each, z_2 -13, z_4 -10, S_2 21, S_4 -26, S_5 -23, Z_5 -36, r_3 -21, R_1 -16. Metasternal setae on plates. Ventrianal shield with deeply concave lateral margins, with 4 pairs of preanal setae and a pair of pores. Leg IV with no macroseta.

Male : Unknown.

Distribution : Pakistan.

264. *Typhlodromus (Paraseiulus) neosoleiger* Gupta

1981. *Typhlodromus (Paraseiulus) neosoleiger* Gupta, *Indian J. Acar.*, 5 : 41-43.

(Holotype ♀, India : Jammu & Kashmir, Srinagar, on chrysanthemum, in ZSI).

1986. *Typhlodromus (Paraseiulus) neosoleiger*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 310-312.

Diagnosis : Dorsal shield reticulate, 240 long, 210 wide, with 19 pairs of setae. Measurements of setae : j_1 -23, j_4 -14, j_5 -16, j_6 -16, J_2 -16, J_5 -26, j_3 -20, z_2 -16, z_3 -18, z_4 -20, s_4 -20, s_6 -20, S_2 -20, S_4 -22, S_5 -20, Z_5 -36,

Z_5 -36, z_5 -16, z_6 -16, Z_4 -24, r_3 -24, R_1 -20. Ventrianal shield 116 long, 68 wide, with 4 pairs of preanal setae. Macrosetae on leg IV : basitarsus-24.

Male : Unknown.

Distribution : India (Jammu & Kashmir).

265. **Typhlodromus (Paraseiulus) operantis**
(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Paraseiulus operantis* Chaudhri, Akbar & Rasool, Rept. PL. 480 Project, UAL, p. 228.

(Holotype ♀, Pakistan : Samli, 4000' (Murree Hills), on *Desmodium* sp., in UAL).

Diagnosis : Dorsal shield weakly reticulate, 408 long, 234 wide, deeply concave near R_1 , with 19 pairs of setae. All setae shorter than setae next in line. Measurements of setae : j_1 -16, $j_4 = j_5$ -10 each, j_6 -13, J_2 -16, J_5 -10, z_5 -13, z_6 -16, Z_4 -21, $j_3 = z_2 = z_3$ -13 each, z_4 -16, $s_4 = s_6$ -21 each, S_2 -26, S_4 -29, S_5 -31, Z_5 -42, $r_3 = R_1$ -18 each. Metasternal setae on metasternal plates. Ventrianal shield vase-shaped, concave near 3rd and 4th preanal setae, with 4 pairs of preanal setae and a pair of pores. Macrosetae on leg IV : basitarsus-29.

Male : Unknown.

Distribution : Pakistan.

266. **Typhlodromus (Paraseiulus) trimediosetus**
Jie-liu, Lai-rong & Li-sheng

1980. *Typhlodromus trimediosetus* Jie-liu, Lai-rong & Li-sheng, *Fudan J. (Nat. Sci.)*, 19(4) : 469-471.

(Holotype ♀, South China : Shangha, Jiangwan, on *Humulus scandens*, 2 Paratype ♀♀, same data as for holotype; 1 ♀, Jingsu on *Pterocarya stenoptera*; Repository—?).

Diagnosis : Dorsal shield reticulate, with 19 pairs of setae. Measurements of setae : j_1 -10, j_4 -11, j_5 -11, j_6 -14, J_2 -15, J_5 -7, z_5 -10, z_6 -14, Z_4 -24, j_3 -17, z_2 -18, z_3 -18, z_4 -19, s_4 -19, s_6 -21, S_2 -21, S_4 -21, S_5 -21, Z_5 -26 (serrate), r_3 -17, R_1 -16. Sternal shield with 2 pairs of setae, 3rd pair on interscutal membrane, 4th pair on platelets. Ventrianal shield elongate, lateral margins deeply concave with 2 pairs of preanal setae.

Male : ?

Distribution : South China.

267. *Typhlodromus (Paraseiulus) vitreus*
(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Paraseiulus vitreus* Chaudhri, Akbar & Rasool, Rept. PL. 480 Project, UAL., p. 226-228.
(Holotype ♀, Pakistan : Barian, 6000' (Murree Hills) on *Daphne popyracea*, in UAL. Paratype 1 ♀, Sunny Bank, 7500' (Murree Hills), on *Cornus* sp., (repository not mentioned).

Diagnosis : Dorsal shield reticulate, 357 long, 214 wide, deeply concave near s_6 and R_1 with 17 pairs of setae, all being shorter than the setae next in line. Measurements of setae : j_1 -16, $j_4 = j_5$ -8 each, j_6 -10, J_2 -13, J_5 -5 $z_5 = z_6$ -10 each, Z_4 -18, $j_3 = z_2 = z_4$ -10 each, z_3 -13, $s_4 = s_6 = S_2$ -16 each, $S_4 = S_5$ -18 each, Z_5 -29, r_3 -16, R_1 -13. Metasternal setae on metasternal plates. Ventrianal shield with strongly concave lateral margins, with 4 pairs of preanal setae and a pair of pores. Fixed digit of chelicera with 2 teeth, movable digit with one tooth. Macroseta on leg IV : basitarsus-23.

Male : Unknown.

Distribution : Pakistan.

Subgenus *Typhloctonus* Muma

Key to the species of Typhloctonus

- | | | |
|---|-----|-------------------|
| 1. Ventrianal shield with 3 pairs of preanal setae | ... | <i>nesbitti</i> |
| — Ventrianal shield with 4 pairs of preanal setae | ... | 2 |
| 2. Z_5 serrate, knobbed ; Ventrianal shield considerably longer than wide | ... | <i>transitans</i> |
| — Z_5 serrate, not knobbed ; Ventrianal shield only slightly longer than wide | ... | <i>vollsella</i> |

268. *Typhlodromus (Typhloctonus) nesbitti* Womersley

1954. *Typhlodromus nesbitti* Womersley, *Aust. J. Zool.*, 2 : 179-180.
(Holotype ♀, Australia : New South Wales, on galls of lucerne, in South Australian Museum).
1964. *Typhlodromus (Typhloctonus) nesbitti*, Narayanan & Ghai, *Proc. natn. Inst. Sci., India*, 29B (5) : 541-542.
(Delhi : Mango malfomation).
1986. *Typhlodromus (Typhloctonus) nesbitti*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 312-314,

Diagnosis : Dorsal shield with 19 pairs of setae. Measurements of setae : j_1 -28, j_4 -17, j_5 -17, j_6 -17, J_2 -20, J_5 -11, j_3 -20, z_2 -20, z_3 -22, z_4 -22, s_4 -25, s_6 -25, Z_1 -20, S_2 -28, S_4 -22, S_5 -22, Z_5 -56, z_5 -17, Z_4 -36. Ventrianal shield 143 long, 110 wide, with 3 pairs of preanal setae and a pair of preanal pores. Macroseta present only on basitarsus IV.

Male : Unknown.

Distribution : India (Delhi), Australia.

269. *Typhlodromus (Typhloctonus) transitans* Gupta

1981. *Typhlodromus transitans* Gupta, *Indian J. Acar.*, 5 : 40-41.

(Holotype ♀, India : Jammu & Kashmir, Anantnag, on pear. Paratypes 2 ♀♀, Srinagar, on mulberry, all in ZSI).

1986. *Typhlodromus (Typhloctonus) transitans*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 314-315.

Diagnosis : Dorsal shield lightly sclerotized, reticulate, 320 long, 176 wide, with 19 pairs of setae. Measurements of setae : j_1 -16, j_4 -16, j_5 -16, j_6 -18, J_2 -20, J_5 -8, j_3 -21, z_2 -16, z_3 -21, z_4 -24, s_4 -24, s_6 -24, Z_1 -20, S_2 -28, S_4 -28, S_5 -20, Z_5 -48, z_5 -16, Z_4 -28, r_3 -21, R_1 -20. Ventrianal shield smooth, 92 long, 64 wide, with 4 pairs of preanal setae. Macrosetae on leg IV : genu-20, tibia-18, basitarsus-36.

Male : Unknown.

Distribution : India (Jammu & Kashmir).

270. *Typhlodromus (Typhloctonus) vollsella*

(Chaudhri, Akbar & Rasool)—New Comb.

1974. *Typhloctonus vollsella* Chaudhri, Akbar & Rasool, Rept. PL 480 Project UAL, p. 231-233.

(Holotype ♀, Pakistan : 2 miles east of Murree hills, 7500', on *Pinus* sp., in UAL).

Diagnosis : Dorsal shield reticulate, 326 long, 286 wide, deeply concave near R_1 , with 19 pairs of setae. All the setae shorter than distance of seta next in line, except j_3 which is longer than j_3 - z_2 . Measurements of setae : j_1 -18, j_4 -13, j_5 -16, j_6 -18, J_2 -18, J_5 -8, z_5 -16, Z_4 -26, j_3 -21, z_2 -18, z_3 -21, z_4 -21, s_4 -23, s_6 -26, Z_1 -18, S_2 -26, S_4 -26, S_5 -18, Z_5 -39, r_3 -23, R_1 -18. Metasternal setae on platelets. Ventrianal shield 101 long, 75 wide, with lateral margins nearly parallel, with 4 pairs of preanal setae and a pair of pores. Leg IV with 3 macrosetae, genu-16, tibia-16, basitarsus-31, with blunt tip, that on basitarsus IV with hyaline margin.

Male : Unknown.

Distribution ; Pakistan.

In addition to the above, the following species are also known but those could not be included in key for the reasons as given for *Amblyseius* (*Amblyseius*) spp. on p. 14.

271. *Typhlodromus* (*Typhloctonus*) *prunus*

(Denmark & Rather)—New Comb.

1984. *Typhloctonus prunus* Denmark & Rather, *Internat. J. Acarol.*, 10 (3) : 163-177.
(Holotype ♀, India : Srinagar, on *Prunus*, in USNM ?).

Diagnosis : For want of original literature, this information could not be furnished.

Male : ?

Distribution : India (Kashmir).

Remarks : In all probability this species is same as *T. (T.) prunus* Gupta.

Subgenus *Typhlodromus* Scheuten

Key to the species of Typhlodromus

- | | |
|--|--------------------|
| 1. Ventrional shield much longer than broad ... | <i>garhwalicus</i> |
| — Ventrional shield almost as long as broad ... | 2 |
| 2. S_5 very small, nearly 1/2 as long as S_4 and much shorter than its distance between its base and that of Z_5 ... | <i>communis</i> |
| — S_5 subequal to S_4 , Z_5 almost touches base of Z_5 ... | <i>neorhenanus</i> |

272. *Typhlodromus* (*Typhlodromus*) *communis* Gupta

1980. *Typhlodromus communis* Gupta, *Entomologists' mon. Mag.*, 115 : 209.
(Holotype ♀, Paratypes 2 ♀ ♀, India : West Bengal, Darjeeling Dist., on pear, *Pyrus communis*, in ZSI).

1986. *Typhlodromus* (*Typhlodromus*) *communis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 316-318.

Diagnosis : Dorsal shield 280 long, 160 wide, reticulate, with 18 pairs of setae. Measurements of setae : j_1 -13, j_4 -13, j_5 -10, j_6 -12, J_2 -14, J_5 -5, j_3 -12, z_2 -6, z_3 -12, z_4 -12, s_4 -13, s_6 -16, S_2 -13, S_4 -21, S_5 -11, Z_5 -47 (smooth), z_5 -12, Z_4 -30 (smooth). Ventrional shield as long as wide,

with 3 pairs of preanal setae. Macroseta present only on basitarsus IV-35.

Male : Unknown.

Distribution : India (West Bengal).

273. *Typhlodromus* (*Typhlodromus*) *garhwalicus* Gupta

1982. *Typhlodromus garhwalicus* Gupta, *Indian J. Acar.*, 6 : 29-30.

(Holotype ♀, India : Uttar Pradesh, Almora, Kausani, on *Casuarina* sp., in ZSI).

1986. *Typhlodromus* (*Typhlodromus*) *garhwalicus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 318-319.

Diagnosis : Dorsal shield 387 long, 228 wide, with 18 pairs of setae ; mostly small except Z_5 which is longer. Measurements of setae : j_1 -13, j_4 - j_6 , J_2 -14-18 each, J_5 -8, j_3 -22, z_2 -17, z_3 -17, z_4 -17, s_4 -13, s_6 -22, S_2 -26, S_4 -30, S_5 -21, Z_5 -39, Z_4 -26, z_5 -14, r_3 -29. Ventrianal shield 129 long, 69 wide, with 4 pairs of preanal setae. Leg IV with macroseta only on basitarsus.

Male : Unknown.

Distribution : India (Uttar Pradesh).

274. *Typhlodromus* (*Typhlodromus*) *neorhenanus* Gupta

1977. *Typhlodromus neorhenanus* Gupta, *Indian J. Acar.*, 2(2) : 4.

(Holotype ♀, Paratypes 3 ♀♀, 1 ♂, India : Meghalaya, Tura, on fern, in ZSI).

1986. *Typhlodromus* (*Typhlodromus*) *neorhenanus*, Gupta, *Fauna of India (Acari : Mesostigmata) Family Phytoseiidae*, p. 320-321.

Diagnosis : Dorsal shield 296 long, 156 wide, with 18 pairs of setae. Measurements of setae : j_1 -16, j_4 -10, j_5 -16, j_6 -20, J_2 -24, J_5 -8, j_3 -13, z_2 -8, z_3 -16, z_4 -22, s_4 -25, s_6 -29, S_2 -33, S_4 -36, S_5 -32, Z_5 -56, z_5 -16, Z_4 -44. Ventrianal shield broader anteriorly, lateral margins concave, with 4 pairs of preanal setae. Spermatheca with funnel-shaped cervix.

Male : Unknown.

Distribution : India (Meghalaya).

In addition to the above species, some more species are known which could not be included in key for the reasons as mentioned for *Amblyseius* (*Amblyseius*) spp. on p. 14.

275. **Typhlodromus (Typhlodromus) disparis**
(Chaudhri, Akbar & Rasool)—New Comb.

1979. *Denmarkia disparis* Chaudhri, Akbar & Rasool, Rept. PL 480 Project, UAF, p. 46.

(Holotype ♀, Pakistan : Mansehra, in UAF).

Diagnosis : Dorsal shield reticulate posteriorly, 418 long, 214 wide. Measurements of setae : j_1 -31, j_4 - j_5 -16 each, j_6 -19, J_2 -23, J_5 -16, j_3 -42, z_2 -21, $z_3 = s_6 = 26$ each, z_4 -29, $s_4 = S_2 = S_4$ -23 each, S_5 -23, Z_5 -78, z_5 -10, Z_4 -44, r_3 -23, R_1 -21. Macroseta on basitarsus IV-34.

Male : Unknown.

Distribution : Pakistan.

276. **Typhlodromus (Typhlodromus) barkeri** (Hughes)

1948. *Neoseiulus barkeri* Hughes, Min. Agr. Fish. Lond., H. M. Stationary office, p. 168.

(Holotype ♀, London Docks, on germinating barley, in BM (NH)).

1984. *Amblyseius (Amblyseius) barkeri*, Wei-nan, *Acarology*, 6(1) p. 222.

Diagnosis : Dorsal shield imbricate with 18 pairs of setae. Ventrianal shield slightly longer than wide with 3 pairs of preanal setae. One pair of metapodal plate present.

Male : Spermatophoral process hammer-shaped.

Distribution : South China, England, Taiwan.

277. **Typhlodromus (Typhlodromus) sijiensis** Gupta

— *Typhlodromus (Typhlodromus) sijiensis* Gupta, *Oriental Ins.*

1986. *Typhlodromus (Typhlodromus) sijiensis*, Gupta, Fauna of India (Acari : Mesostigmata) Family Phytoseiidae, p. 321-322.

Diagnosis : Dorsal shield 370 long, 262 wide, with 18 pairs of setae. Measurements of setae : j_1 -26, j_4 -20, j_5 -20, j_6 -22, J_2 -24, J_5 -7, j_3 -44, z_2 -41, z_3 -35, z_4 -44, s_4 -44, s_6 -42, S_2 -37, S_4 -34, S_5 -26, Z_5 -56, z_5 -20, Z_4 -38, r_3 -40, R_1 -26. Ventrianal shield 125 long, 109 wide, with 4 pairs of preanal setae. Macroseta present only on basitarsus IV-56.

Male : Unknown.

Distribution : India (Arunachal Pradesh).

Subfamily GNORIMINAE Chaudhri

1975. Gnoriminae Chaudhri, *Pak. J. Agril. Sci.*, 12(1-2) : 100.

Diagnosis : Dorsal shield light to heavily sclerotized with 12 pairs of lateral setae of diverse length, 3 pairs of sublateral setae, 2 pairs of setae around ventrianal shield, ventrianal shield large, robust, reticulate, with 6-7 pairs of preanal setae, a pair of preanal and a long serrate postanal seta present ; a fold like structure present on ventrianal shield little anterior to anal region.

Type genus : **Gnorimus** Chaudhri, 1975.

Key to the genera of Gnoriminae

- | | |
|---|--------------------|
| 1. Ventrianal shield with 7 pairs of preanal setae, metapodal and metasternal plates absent ... | <i>Garhwalicus</i> |
| — Ventrianal shield with 6 pairs of preanal setae, 2 pairs of metapodal plates present ... | <i>Gnorimus</i> |

Genus **Garhwalicus** Gupta & Ray

1981. *Garhwalicus* Gupta & Ray, *Bull. zool. Surv. India*, 4(3) : 268.

Type : *Garhwalicus himalayensis* Gupta & Ray, 1981.

278. **Garhwalicus himalayensis** Gupta & Ray

1981. *Garhwalicus himalayensis* Gupta & Ray, *Bull. zool. Surv. India*, 4(3) : 268-269.
(Holotype ♀, India : Uttar Pradesh, Garhwal region, Siror vill., on undet. plant., in ZSI).

Diagnosis : Dorsal shield 370 long, 278 wide, heavily sclerotized with 12 pairs of lateral setae, 6 pairs of dorsocentral setae, 2 pairs of median setae and 3 pairs of sublateral setae. Most of the dorsal setae rod-like, a few with widened tip. Measurements of setae : j_1 -18, j_4 -31 (broken), j_5 -29, j_6 -34, J_2 -7, J_5 -4, j_3 -38, z_2 -5, z_3 -44, z_4 -36 (broken), s_4 -5, s_6 -44, Z_1 -6, S_2 -44 (broken), S_3 -5, S_4 -5, S_5 -5, Z_5 -60, z_5 broken, Z_4 -6, r_3 -38, R_1 -small, R_4 -small. Ventrianal shield 190 long, 210 wide, reticulate, with 7 pairs of preanal setae, postanal seta rod-like. Leg IV with 2 macrosetae on genu (27 long, 18 long), 2 macrosetae on tibia (18 long and 20 long), basitarsus with one macroseta-22, all being spatulate.

Male : Unknown.

Distribution : India (Uttar Pradesh).

Genus **Gnorimus Chaudhri**

Type : *Gnorimus tabella* Chaudhri, 1975.

279. **Gnorimus tabella** Chaudhri

1975. *Gnorimus tabella* Chaudhri, *Pak. J. Agric. Sci.*, 12(1-2) : 100-102.

(Holotype ♀, Pakistan : 2 miles north of Shalamar Rd., Lahore, on *Cynodon dactylon*, in UAL).

Diagnosis : Dorsal shield reticulate, 370 long, 220 wide, with 25 pairs of setae and 8 pairs of pores. Measurements of setae : j_1 -34, j_4 -18, j_5 -23, j_6 -26, J_2 -18 each, J_5 -8, j_3 -42, z_2 -39, z_3 -36, z_4 -18, s_4 -52, s_6 -42, Z_1 -55, S_2 -52, S_3 -47, S_4 -52, S_5 -60, Z_5 -65, z_5 -31, Z_3 (M_2)-60, Z_4 (M_3)-60. Ventrianal shield reticulate, 161 long, 172 wide, almost oval with 6 pairs of preanal setae. Metapodal plates 2 paired. Spermatheca with cervix funnel-shaped. Macrosetae on leg IV : genu-44, basitarsus-62, distitarsus-81.

Male : Unknown.

Distribution : Pakistan.

SUMMARY

The present work concerns the phytoseiid fauna of Oriental region and deals with 279 species belonging to 12 genera under 2 subfamilies. Besides diagnosis and distribution, the relevant references along with locality and habitat records, particulars about type specimens with repositories, etc. in respect of all the species are provided. Keys to subfamilies, genera, subgenera and also for most of the species are included. Several generic transferances are proposed and a subgeneric concept is followed.

The number of species from different parts of Oriental region are : India-142, Pakistan-65, Thailand-29, Taiwan-26, Philippines-21, Indonesia-15, Malayasia-6 and South China-40. So far nothing was known from Nepal, Bhutan, Burma and Bangladesh and, hence, a preliminary list of species from those regions basing on author's own recent study is provided in Appendix-I and that reports-7, 11, 7 and 9 species, respectively from those regions. Appendix II represents the country-wise distribution of species in Oriental region.

The present account reveals that Oriental region represents a little less than 30% of the known world phytoseiid fauna,

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APPENDIX—I

List of phytoseiid species known from Nepal, Bhutan, Burma and Bangladesh (basing on author's recent study)

Name of species	Countries			
	Nepal	Bhutan	Burma	Bangladesh
<i>A. (A.) largoensis</i>	+	+	-	+
<i>A. (A.) herbicolus</i>	+	-	+	-
<i>A. (A.) kulini</i>	-	-	+	-
<i>A. (A.) sp.</i>	+	-	-	+
<i>A. (E.) coccineae</i>	+	-	+	+
<i>A. (E.) ovalis</i>	-	+	-	-
<i>A. (E.) pruni</i>	+	+	+	+
<i>A. (P.) multidentatus</i>	-	+	-	+
<i>A. (N.) sp.</i>	-	+	-	-
<i>A. (T.) kalimpongensis</i>	+	-	-	+
<i>A. (T.) crotalariae</i>	-	-	+	-
<i>A. (T.) suknaensis</i>	-	+	+	+
<i>A. (T.) syzygii</i>	-	+	-	-
<i>P. (P.) roseus</i>	-	+	-	+
<i>T. (A.) darjeelingensis</i>	+	+	-	-
<i>T. (O.) pruni</i>	-	-	+	-
<i>T. (T.) communis</i>	-	+	-	-
<i>T. (T.) sp.</i>	-	+	-	+
Total	7	11	7	9

Name of species		Countries							
		India	Pakistan	Philippines	Taiwan	Thailand	Indonesia	South China	Malaysia
30.	<i>A. (A.) vestificus</i>	-	-	-	+	-	-	-	-
31.	<i>A. (Asperoseius) heveae</i>	+	-	/	-	+	+	-	-
32.	<i>A. (A.) hevearum</i>	-	/	-	-	-	+	-	-
33.	<i>A. (A.) hyauliangensis</i>	+	-	-	-	-	-	-	-
34.	<i>A. (A.) nucifera</i>	+	-	-	-	-	-	-	-
35.	<i>A. (Euseius) aizawai</i>	-	-	-	-	+	-	-	-
36.	<i>A. (E.) alangii</i>	-	-	-	-	-	-	+	-
37.	<i>A. (E.) alstoniae</i>	+	-	-	-	-	-	-	-
38.	<i>A. (E.) bambusae</i>	+	-	-	-	-	-	-	-
39.	<i>A. (E.) coccineae</i>	+	-	-	-	-	-	-	-
40.	<i>A. (E.) coccosocius</i>	+	-	-	-	-	-	-	-
41.	<i>A. (E.) delhiensis</i>	+	-	-	-	-	-	-	-
42.	<i>A. (E.) densus</i>	-	-	-	-	-	-	+	-
43.	<i>A. (E.) eucalypti</i>	+	-	-	-	-	-	-	-
44.	<i>A. (E.) finlandicus</i>	+	-	-	-	-	+	-	-
45.	<i>A. (E.) guangxiensis</i>	-	-	-	-	-	-	+	-
46.	<i>A. (E.) irregularis</i>	-	-	-	-	-	-	-	+
47.	<i>A. (E.) macrospatulatus</i>	+	-	-	-	-	-	-	-
48.	<i>A. (E.) mediocris</i>	-	+	-	-	-	-	-	-
49.	<i>A. (E.) neococcineae</i>	+	-	-	-	-	-	-	-
50.	<i>A. (E.) nicholsi</i>	-	-	-	-	+	-	+	-
51.	<i>A. (E.) notatus</i>	-	+	-	-	-	-	-	-
52.	<i>A. (E.) okumae</i>	-	-	-	-	+	-	-	-
53.	<i>A. (E.) ovalis</i>	+	-	+	+	-	+	+	+
54.	<i>A. (E.) pruni</i>	+	-	-	-	-	-	-	-
55.	<i>A. (E.) relictus</i>	-	+	-	-	-	-	-	-
56.	<i>A. (E.) rhododendronis</i>	+	-	/	-	-	-	-	-
57.	<i>A. (E.) ruiliensis</i>	-	-	-	-	-	-	+	-
58.	<i>A. (E.) sacchari</i>	+	-	-	-	-	-	-	-
59.	<i>A. (E.) septicus</i>	-	+	-	-	-	-	-	-
60.	<i>A. (E.) womersleyi</i>	-	-	/	+	-	-	-	-
61.	<i>A. (E.) yunnanensis</i>	-	-	-	-	-	-	+	-
62.	<i>A. (Neoseiulus) aceriae</i>	+	-	-	-	-	-	-	-
63.	<i>A. (N.) aequipilus</i>	-	-	-	-	-	+	-	-

Name of species	Countries							
	India	Pakistan	Philippines	Taiwan	Thailand	Indonesia	South China	Malaysia
64. <i>A. (N.) amantis</i>	-	+	-	-	-	-	-	-
65. <i>A. (N.) anuwati</i>	-	-	-	-	+	-	+	-
66. <i>A. (N.) assamensis</i>	+	-	-	-	-	-	-	-
67. <i>A. (N.) bakeri</i>	+	-	-	-	+	-	-	-
68. <i>A. (N.) bheraensis</i>	-	+	-	-	-	-	-	-
69. <i>A. (N.) calorai</i>	-	-	+	-	-	-	-	-
70. <i>A. (N.) carancula</i>	-	+	-	-	-	-	-	-
71. <i>A. (N.) curvus</i>	-	-	-	-	-	-	+	-
72. <i>A. (N.) cynodonae</i>	+	-	-	-	-	-	-	-
73. <i>A. (N.) eremicus</i>	-	+	-	-	-	-	-	-
74. <i>A. (N.) fallacis</i>	+	-	-	-	-	-	-	-
75. <i>A. (N.) fraterculus</i>	+	-	-	-	-	-	-	-
76. <i>A. (N.) imbricatus</i>	+	-	+	-	+	-	-	-
77. <i>A. (N.) indicus</i>	+	-	-	-	-	-	-	-
78. <i>A. (N.) longispinosus</i>	+	+	+	+	+	+	+	+
79. <i>A. (N.) myrtia</i>	-	+	-	-	-	-	-	-
80. <i>A. (N.) paspalivorus</i>	+	-	+	-	-	-	-	-
81. <i>A. (N.) rangatensis</i>	+	-	-	-	-	-	-	-
82. <i>A. (N.) reductus</i>	-	+	-	-	-	-	-	-
83. <i>A. (N.) siamensis</i>	-	-	-	-	+	-	-	-
84. <i>A. (N.) stolidus</i>	-	+	-	-	-	-	-	-
85. <i>A. (N.) tabularis</i>	-	+	-	-	-	-	-	-
86. <i>A. (N.) taiwanicus</i>	-	-	-	+	+	-	-	-
87. <i>A. (N.) venustus</i>	-	+	-	-	-	-	-	-
88. <i>A. (Paraphytoseius) cracentis</i>	-	-	+	-	-	-	-	-
89. <i>A. (P.) multidentatus</i>	+	+	+	+	+	-	+	-
90. <i>A. (P.) scleroticus</i>	+	-	-	-	-	-	-	-
91. <i>A. (Phytoscutella) salebrosus</i>	+	-	-	+	+	-	-	-
92. <i>A. (P.) wongsirii</i>	-	-	-	-	+	-	-	-
93. <i>A. (Proprioseiopsis) arunachalensis</i>	+	-	-	-	-	-	-	-
94. <i>A. (P.) beatus</i>	-	+	-	-	-	-	-	-
95. <i>A. (P.) bulga</i>	-	+	-	-	-	-	-	-
96. <i>A. (P.) dentatus</i>	-	+	-	-	-	-	-	-
97. <i>A. (P.) peltatus</i>	+	-	-	+	+	-	-	-

Name of species	Countries							
	India	Pakistan	Philippines	Taiwan	Thailand	Indonesia	South China	Malaysia
165. <i>P. (P.) kapuri</i>	+	-	-	-	-	-	-	-
166. <i>P. (P.) minutus</i>	+	-	-	+	-	-	-	-
167. <i>P. (P.) namdaphaensis</i>	+	-	-	-	-	-	-	-
168. <i>P. (P.) taianensis</i>	-	-	-	-	-	-	+	-
169. <i>Phytoseius (Phytoseius)</i> <i>bandipurensis</i>	+	-	-	-	-	-	-	-
170. <i>P. (P.) brevicrinis</i>	-	-	-	-	+	-	-	-
171. <i>P. (P.) coheni</i>	-	-	+	+	-	-	-	-
172. <i>P. (P.) corniger</i>	+	+	-	-	-	-	-	-
173. <i>P. (P.) crinitus</i>	+	-	-	-	-	+	-	-
174. <i>P. (P.) domesticus</i>	+	-	-	-	-	-	-	-
175. <i>P. (P.) glareosus</i>	-	-	+	-	-	-	-	-
176. <i>P. (P.) hawaiiensis</i>	-	-	-	-	+	-	-	-
177. <i>P. (P.) huangi</i>	-	-	-	+	-	-	-	-
178. <i>P. (P.) indicus</i>	+	-	-	-	-	-	-	-
179. <i>P. (P.) intermedius</i>	+	+	-	-	-	-	-	-
180. <i>P. (P.) jujuba</i>	+	-	-	-	-	-	-	-
181. <i>P. (P.) longus</i>	-	-	-	-	-	-	+	-
182. <i>P. (P.) macropilis</i>	+	-	-	-	-	-	-	-
183. <i>P. (P.) macrosetosus</i>	+	-	-	-	-	-	-	-
184. <i>P. (P.) mansehraensis</i>	-	+	-	-	-	-	-	-
185. <i>P. (P.) meyeræ</i>	+	-	-	-	-	-	-	-
186. <i>P. (P.) mixtus</i>	+	+	-	-	-	-	-	-
187. <i>P. (P.) neocorniger</i>	+	-	-	-	-	-	-	-
188. <i>P. (P.) neoferox</i>	+	-	-	-	+	-	-	-
189. <i>P. (P.) nipponicus</i>	+	-	-	-	-	-	+	-
190. <i>P. (P.) petentis</i>	-	+	-	-	-	-	-	-
191. <i>P. (P.) punjabensis</i>	+	-	-	-	-	-	-	-
192. <i>P. (P.) qianshanensis</i>	-	-	-	-	-	-	+	-
193. <i>P. (P.) rachelæ</i>	+	-	-	-	-	-	-	-
194. <i>P. (P.) rasilis</i>	-	-	+	-	-	-	-	-
195. <i>P. (P.) rimandoi</i>	-	-	+	-	-	-	-	-
196. <i>P. (P.) roseus</i>	+	-	-	-	-	-	-	-
197. <i>P. (P.) rugatus</i>	-	-	-	+	-	-	-	-

Name of species	Countries							
	India	Pakistan	Philippines	Taiwan	Thailand	Indonesia	South China	Malaysia
198. <i>P. (P.) rugosus</i>	+	+	-	-	-	-	-	-
199. <i>P. (P.) ruidus</i>	-	-	-	-	-	-	+	-
200. <i>P. (P.) silvaticus</i>	-	-	-	-	-	-	+	-
201. <i>P. (P.) spatulatus</i>	-	+	-	-	-	-	-	-
202. <i>P. (P.) swirskii</i>	+	-	-	-	-	-	-	-
203. <i>P. (P.) wainsteini</i>	+	-	-	-	-	-	-	-
204. <i>Typhlodromus (Amblydromella)</i>								
<i>acacia</i>	-	-	-	-	-	-	+	-
205. <i>T. (A.) arunachalensis</i>	+	-	-	-	-	-	-	-
206. <i>T. (A.) balakotiensis</i>	-	+	-	-	-	-	-	-
207. <i>T. (A.) bambusicolus</i>	+	-	-	-	-	-	-	-
208. <i>T. (A.) cordiae</i>	-	+	-	-	-	-	-	-
209. <i>T. (A.) chrysanthemii</i>	+	-	-	-	-	-	-	-
210. <i>T. (A.) dactylifera</i>	-	+	-	-	-	-	-	-
211. <i>T. (A.) divergentis</i>	-	+	-	-	-	-	-	-
212. <i>T. (A.) darjeelingensis</i>	+	-	-	-	-	-	-	-
213. <i>T. (A.) eremitidis</i>	-	+	-	-	-	-	-	-
214. <i>T. (A.) fleschneri</i>	+	-	-	-	-	-	-	-
215. <i>T. (A.) galummatius</i>	-	+	-	-	-	-	-	-
216. <i>T. (A.) ghanii</i>	-	+	-	-	-	-	-	-
217. <i>T. (A.) gopali</i>	+	-	-	-	-	-	-	-
218. <i>T. (A.) himalayensis</i>	+	-	-	-	-	-	-	-
219. <i>T. (A.) homalii</i>	+	+	-	-	-	-	-	-
220. <i>T. (A.) husaini</i>	-	+	-	-	-	-	-	-
221. <i>T. (A.) incasus</i>	-	+	-	-	-	-	-	-
222. <i>T. (A.) jackmickleyi</i>	-	-	-	-	-	+	-	-
223. <i>T. (A.) kodaikanalensis</i>	+	-	-	-	-	-	-	-
224. <i>T. (A.) libitus</i>	-	+	-	-	-	-	-	-
225. <i>T. (A.) limitatus</i>	-	+	-	-	-	-	-	-
226. <i>T. (A.) loralaiana</i>	-	+	-	-	-	-	-	-
227. <i>T. (A.) maracus</i>	-	+	-	-	-	-	-	-
228. <i>T. (A.) mori</i>	+	-	-	-	-	-	-	-
229. <i>T. (A.) nidibu</i>	-	-	-	-	-	+	-	-
230. <i>T. (A.) nilgiriensis</i>	+	-	-	-	-	-	-	-

Name of species	Countries							
	India	Pakistan	Philippines	Taiwan	Thailand	Indonesia	South China	Malaysia
231. <i>T. (A.) octavus</i>	-	+	-	-	-	-	-	-
232. <i>T. (A.) ornatulus</i>	-	+	-	-	-	-	-	-
233. <i>T. (A.) platycladus</i>	-	-	-	-	-	-	+	-
234. <i>T. (A.) philippinus</i>	-	-	+	-	-	-	-	-
235. <i>T. (A.) rhenanus</i>	+	-	-	-	-	-	-	-
236. <i>T. (A.) rhododendroni</i>	+	-	-	-	-	-	-	-
237. <i>T. (A.) ryukyuensis</i>	-	-	-	+	-	-	-	-
238. <i>T. (A.) serratus</i>	-	+	-	-	-	-	-	-
239. <i>T. (A.) serrulatus</i>	-	-	-	-	+	-	-	-
240. <i>T. (A.) sica</i>	-	+	-	-	-	-	-	-
241. <i>T. (A.) sonprayagensis</i>	+	-	-	-	-	-	-	-
242. <i>T. (A.) umbratus</i>	-	+	-	-	-	-	-	-
243. <i>T. (A.) zafari</i>	-	+	-	-	-	-	-	-
244. <i>T. (Anthoseius) majumderi</i>	+	-	-	-	-	-	-	-
245. <i>T. (Brethria) confusus</i>	+	-	-	-	-	-	-	-
246. <i>T. (B.) roshanlali</i>	+	-	-	-	-	-	-	-
247. <i>T. (Chiliseius) lienii</i>	-	-	-	+	-	-	-	-
248. <i>T. (C.) separatus</i>	-	-	-	-	-	-	+	-
249. <i>T. (C.) tengi</i>	-	-	-	-	-	-	+	-
250. <i>T. (Clavidromus) neotransvaalensis</i>	+	-	-	-	-	-	-	-
251. <i>T. (Metaseiulus) contiguus</i>	-	-	+	-	-	-	-	-
252. <i>T. (Orientiseius) agilis</i>	-	+	-	-	-	-	-	-
253. <i>T. (O.) channabasavannai</i>	+	-	-	-	-	-	-	-
254. <i>T. (O.) hadii</i>	+	+	-	-	-	-	-	-
255. <i>T. (O.) lalazariensis</i>	-	+	-	-	-	-	-	-
256. <i>T. (O.) manipurensis</i>	+	-	-	-	-	-	-	-
257. <i>T. (O.) orissaensis</i>	+	-	-	-	-	-	-	-
258. <i>T. (O.) pruni</i>	+	-	-	-	-	-	-	-
259. <i>T. (O.) rickeri</i>	+	-	-	-	-	-	-	-
260. <i>T. (O.) samliensis</i>	-	+	-	-	-	-	-	-
261. <i>T. (O.) thailandicus</i>	-	-	-	-	+	-	-	-
262. <i>T. (Paraseiulus) comptus</i>	-	-	+	-	-	-	-	-
263. <i>T. (P.) ignavus</i>	-	+	-	-	-	-	-	-

Name of species	Countries							
	India	Pakistan	Philippines	Taiwan	Thailand	Indonesia	South China	Malaysia
264. <i>T. (P.) neosoleiger</i>	+	-	-	-	-	-	-	-
265. <i>T. (P.) operantis</i>	-	+	-	-	-	-	-	-
266. <i>T. (P.) trimediosetus</i>	-	-	-	-	-	-	+	-
267. <i>T. (P.) vitreus</i>	-	+	-	-	-	-	-	-
268. <i>T. (Typhloctonus) nesbitti</i>	+	-	-	-	-	-	-	-
269. <i>T. (T.) pruni</i>	+	-	-	-	-	-	-	-
270. <i>T. (T.) transitans</i>	+	-	-	-	-	-	-	-
271. <i>T. (T.) vollsella</i>	-	+	-	-	-	-	-	-
272. <i>Typhlodromus (Typhlodromus) barkeri</i>	-	-	-	-	-	-	+	-
273. <i>T. (T.) communis</i>	+	-	-	-	-	-	-	-
274. <i>T. (T.) disparis</i>	-	+	-	-	-	-	-	-
275. <i>T. (T.) garhwalicus</i>	+	-	-	-	-	-	-	-
276. <i>T. (T.) neorhenanus</i>	+	-	-	-	-	-	-	-
277. <i>T. (T.) sijiensis</i>	+	-	-	-	-	-	-	-
278. <i>Garhwalicus himalayensis</i>	+	-	-	-	-	-	-	-
279. <i>Gnorimus tabella</i>	-	+	-	-	-	-	-	-
Total No. of species	142	65	21	26	29	15	40	6

ADDENDA

I. On page No. 4, while giving key to the genera of Amblyseiinae, the inclusion of the genus *Platyseiella* was inadvertently omitted and, hence, the revised key is provided here to include that genus.

Key to the genera of Amblyseiinae

- | | | |
|---|-----|-----------------------|
| 1. Ventrianal shield absent or indistinctly demarcated, only preanal setae distinctly present ... | ... | <i>Indoseiulus</i> |
| — Ventrianal shield distinctly present ... | ... | 2 |
| 2. Sublateral seta II (R_1) absent ... | ... | <i>Platyseiella</i> |
| — Sublateral seta II (R_1) present ... | ... | 3 |
| 3. R_1 on dorsal shield ... | ... | <i>Okiseius</i> |
| — R_1 on lateral integument ... | ... | 4 |
| 4. Lateral integument sclerotized so that r_3 and R_1 though on usual lateral position appear to be on lateroventral extension of dorsal shield ... | ... | <i>Iphiseius</i> |
| — Lateral integument not sclerotized as above ... | ... | 5 |
| 5. Metapodal plates large, single paired, triangular, genital shield very broad and punctate ; ventrianal shield massive ; genu III with 6 setae ... | ... | <i>Paraamblyseius</i> |
| — Metapodal plates 2 paired, slender, elongate, genital and ventrianal shields usually narrow ; genu III with 7 setae ... | ... | <i>Amblyseius</i> |

II. After the manuscript of this review had gone to the press, additional information on distribution in respect of some species came in hand and those are given below :

<i>Species No.</i>	<i>Name of species</i>	<i>Distribution</i>	<i>Reference</i>
5.	<i>Amblyseius (Amblyseius) herbicolus</i>	Taiwan South China	Shih, 1984 Wei-nan, 1984
8.	<i>A. (A.) lorgoensis</i>	South China Indonesia	Wei-nan, 1984 Oomen, 1984
9.	<i>A. (A.) mcmurtryi</i>	South China	Wei-nan, 1984
12.	<i>A. (A.) orientalis</i>	South China	Wei-nan, 1984
30.	<i>A. (A.) vestificus</i>	Taiwan	Tseng, 1976
45.	<i>A. (A.) nicholsi</i>	South China	Wei-nan, 1984
48.	<i>A. (Euseius) ovalis</i>	South China	Wei-nan, 1984
64.	<i>A. (Neoseiulus) anuwati</i>	South China	Wei-nan, 1984
73.	<i>A. (N.) longispinosus</i>	Pakistan South China	Chaudhri <i>et al.</i> , 1979
88.	<i>A. (Paraphytoseius) multidentatus</i>	South China Taiwan	Wei-nan, 1984 Wei-nan, 1984 Tseng, 1976
93.	<i>A. (Proprioseiopsis) peltatus</i>	Taiwan	Tseng, 1976
105.	<i>A. (Typhlodromalus) newsami</i>	South China	Wei-nan, 1984
117.	<i>A. (Typhlodromips) hidakai</i>	Thailand	Ehara & Bhandhu- falck, 1977
125.	<i>A. (T.) okinawanus</i>	South China	Wei-nan, 1984
153.	<i>Okiseius subtropicus</i>	South China	Wei-nan & Xing, 1983a
164.	<i>Phytoseius (Pennaseius) minutus</i>	Taiwan	Tseng, 1976
171.	<i>Phytoseius (Phytoseius) coheni</i>	Philippines	Swirski & Golan, 1969
173.	<i>P. (P.) crinitus</i>	Indonesia	Oomen, 1984

III. In case of species Nos. 34, 109, 144, 146, 157, 167, 231 and 277, the original references were incompletely given because of non-availability of the concerned publication at the time of sending the manuscript to the press. However, the publication reached the author when printing of this review was almost complete and, hence, those complete references are given below :

Species No.

34. 1987. *Amblyseius (Asperoseius) hyauliangensis* Gupta, *Oriental Ins.*, **21** : 112.
109. 1987. *Amblyseius (Typhlodromalus) ficusi* Gupta, *Oriental Ins.*, **21** : 114.
144. 1987. *Indoseiulus eharai* Gupta, *Oriental Ins.*, **21** : 115.
146. 1987. *Iphiseius (Iphiseius) hapoli* Gupta, *Oriental Ins.*, **21** : 115-116.
157. 1987. *Okiseius yazuliensis* Gupta, *Oriental Ins.*, **21** : 116.
167. 1987. *Phytoseius (Pennaseius) namdaphaensis* Gupta, *Oriental Ins.*, **21** : 117.
231. 1987. *Typhlodromus (Amblydromella) arunachalensis* Gupta, *Oriental Ins.*, **21** : 117-118.
277. 1987. *Typhlodromus (Typhlodromus) sijiensis* Gupta, *Oriental Ins.*, **21** : 119.

IV. According to Lo (1984) [*Acarology* **6** (2) : 703-708]-28 spp. while as per Shih (1984) [*Acarology* **6** (2) : 710-716]-40 spp. of Phytoseiidae are known from Taiwan. Recently, Tseng (1982) (*Bureau Commod. Insp. Quar. Ministry of Econom. Affairs*, 164 pp.) and Tseng (1983) (*Chinese J. Entomol.*, **3** : 33-74) made further contributions on Taiwan phytoseiid fauna. Unfortunately, Tseng's above cited works were not available to the author and nor did Lo (1984) and Shih (1984) provided any list of phytoseiid spp. known from Taiwan. Hence, in all probability, the total species much exceeds the number (=26) that has been included in this review.

V. *Denmarkia* Chaudhri, Akbar & Rasool, 1979 has been treated here as synonym for *Typhlodromus* Scheuten as the position of s_4

and s_6 almost at same level in a single species (the type species of this genus) based on a lone specimen, does not appear to be an adequate reason for erecting this genus. The genera *Ansaria* and *Kashmiricus* both erected by the same authors in 1979 are considered here as synonyms for *Amblyseius* Berlese, because the characters on which those two genera were erected are not uncommon in *Amblyseius*.

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ERRATA

Page	Line (T-top, B-bottom)	Printed as	Read as
1	8B	(Chaudhri, 1965, 1967, 1968)	(Chaudhri, 1965, 1968)
1	5B	27 species from Taiwan	26 species from Taiwan
5	14B	Tibia II	tibia II
5	3T	Muma, 5 : 266	Muma, <i>ibid.</i> , 5 : 266
6	21B	Key to the species of <i>Amblyseius</i> (<i>Amblyseius</i>)	Key to the species of subgenus <i>Amblyseius</i>
9	21T	auna of India	Fauna of India
9	3B	j_6, J_2	j_6, J_2
11	6T	<i>A. (A.) largoensis</i> Ehara & Bhandhufalck	<i>A. (A.) largoensis</i> , Ehara & Bhandhufalck
13	21T	<i>Amblyseius paraaerialis</i> Ehara & Bhandhufalck	<i>Amblyseius paraaerialis</i> , Ehara & Bhandhufalck
14	9T	<i>Amblyseius shoreae</i> , Gupta	<i>Amblyseius shoreae</i> Gupta
14	7B	Kalan (swat)	Kalan (Swat)
16	2B	<i>J. Agr. Ass. China</i> 94 : 85-128	<i>J. Agr. Ass. China</i> 94 : 123
17	15B	<i>J. Agr. Ass. China</i> 94 : 85-128	<i>J. Agr. Ass. China</i> 94 : 117
17	Sp. No. 27	<i>Amblyseius</i> (<i>Amblyseius</i> ?) <i>spenceus</i> Tseng	<i>Amblyseius</i> (<i>Amblyseius</i>) <i>spineus</i> Tseng
17	11B	<i>J. Agr. Ass. China</i> 94 : 85-128	<i>J. Agr. Ass. China</i> 94 118
17	5T	<i>J. Agr. Ass. China</i> 94 : 85-128	<i>J. Agr. Ass. China</i> 94 : 121
18	Sp. No. 30	<i>Amblyseius</i> (<i>Amblyseius</i> ?) <i>vestificus</i> Tseng	<i>Amblyseius</i> (<i>Typhlodro-</i> <i>malus</i>) <i>vestificus</i> Tseng
21	11B	J_4, j_5-13	j_4, j_5-13
22	18B	<i>Amblyseius coccineae</i> , Gupta	<i>Amblyseius coccineae</i> Gupta
22	8T	Unde	Undet.
24	7T	Phytoseidae	Phytoseiidae
25	2B	<i>A. (E.) neococcineae</i> Gupta	<i>A. (E.) neococcineae</i> , Gupta

Page	Line	Printed as	Read as
27	26T	<i>Breynia, rhamnoides</i>	<i>Breynia rhamnoides</i>
28	16B	<i>Amblyseius sojaensis</i> Ehara,	<i>Amblyseius sojaensis</i> Ehara, Gupta
28	7B	auna	Fauna
30	3T	each	each
31	Sp. No. 56	<i>Amblyseius (Euseius) medio-</i> <i>cris</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Euseius)</i> <i>mediocris</i> (Chaudhri, Akbar & Rasool)- New Comb.
32	Sp. No. 59	<i>Amblyseius (Euseius)</i> <i>womersleyi</i>	<i>Amblyseius (Euseius)</i> <i>womersleyi</i> Schicha
32	Sp. No. 58	<i>Amblyseius (Euseius)</i> <i>septicus</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Euseius) sep-</i> <i>ticus</i> (Chaudhri, Akbar & Rasool)-New Comb.
32	Sp. No. 61	<i>Amblyseius (Euseius) relictus</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Euseius)</i> <i>relictus</i> (Chaudhri, Akbar & Rasool)- New Comb.
41	16T	Fauua	Fauna
43	Sp. No. 80	<i>Amblyseius (Neoseiulus)</i> <i>amantis</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus)</i> <i>amantis</i> (Chaudhri, Akbar & Rasool)- New Comb.
43	Sp. No. 81	<i>Amblyseius (Neoseiulus)</i> <i>bheraensis</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus)</i> <i>bheraensis</i> (Chaudhri, Akbar & Rasool)- New Comb.
44	Sp. No. 82	<i>Amblyseius (Neoseiulus)</i> <i>caruncula</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus)</i> <i>caruncula</i> (Chaudhri, Akbar & Rasool)- New Comb.
44	Sp. No. 84	<i>Amblyseius (Neoseiulus)</i> <i>eremicus</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus)</i> <i>eremicus</i> (Chaudhri, Akbar & Rasool)—New Comb.
44	5B	Z	Z ₄
45	Sp. No. 85	<i>Amblyseius (Neoseiulus)</i> <i>myrtia</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus)</i> <i>myrtia</i> (Chaudhri, Akbar & Rasool)—New Comb.

Page	Line	Printed as	Read as
45	Sp. No. 86	<i>Amblyseius (Neoseiulus) reductus</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus) reductus</i> (Chaudhri, Akbar & Rasool)—New Comb.
45	Sp. No. 87	<i>Amblyseius (Neoseiulus) tabularis</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Neoseiulus) tabularis</i> (Chaudhri, Akbar & Rasool)—New Comb.
46	16T	<i>Mushi</i> 40(6) : 7	<i>Mushi</i> , 40(6) : 77
47	8B	Gupta Ray	Gupta & Ray
48	14B	New Cledonia	New Caledonia
50	5B	rass	grass
51	Sp. No. 96	<i>Amblyseius (Proprioseiopsis) bulga</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Proprioseiopsis) bulga</i> (Chaudhri, Akbar & Rasool)—New Comb.
51	Sp. No. 97	<i>Amblyseius (Proprioseiopsis) dentatus</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Proprioseiopsis) dentatus</i> (Chaudhri, Akbar & Rasool)—New Comb.
52	14T	amily	Family
53	19B	<i>Amblyseius (Typhlodromalus) jarooa</i> Gupta,	<i>Amblyseius (Typhlodromalus) jarooa</i> , Gupta
55	Sp. No. 105	<i>Amblyseius (Typhlodromalus) newsami</i> Evans	<i>Amblyseius (Typhlodromalus) newsami</i> (Evans)
57	11B	<i>Typhlodromips</i>	<i>Typhlodromips</i>
60	18B	1977. <i>Amblyseius enjeniae</i> Gupta,	1977. <i>Amblyseius eujeniae</i> Gupta,
69	Sp. No. 137	<i>Amblyseius (Typhlodromips) draconis</i> (Chaudhri, Akbar & Rasool)	<i>Amblyseius (Typhlodromips) draconis</i> (Chaudhri, Akbar & Rasool)—New Comb.
71	13T, 14T, 15T, 17T, Sp.No.142	} <i>Anathia</i>	<i>Amathia</i>
76	4T	<i>J. Agr. Ass. China</i> 94 : 85-128	<i>J. Agr. Ass. China</i> 94 : 104
76	7B	S ₄ -14	S ₅ -14
80	11B	membraneous	membranous
84	11T	j ₃ -8	j ₃ -38
88	5B	proes	pores
97	13B	Mesotigmata	Mesostigmata
99	9B	j ₃ -20-5	j ₃ -20-25
101	15T	Subgenus <i>Amblydromella</i>	Subgenus <i>Amblydromella</i> Muma
102	6B	j ₂ -13	z ₂ -13

<i>Page</i>	<i>Line</i>	<i>Printed as</i>	<i>Read as</i>
103	17B	Phytoseildae	Phytoseiidae
103	15B	100 wide	160 wide
112	3B	Macrosetae	Macroseta
112	9B	auna	Fauna
116	Sp. No. 235	<i>Typhlodromus (Amblydromella) libitus</i> (Chaudhri)	<i>Typhlodromus (Amblydromella) libitus</i> (Chaudhri) —New Comb.
117	Sp. No. 237	<i>Typhlodromus (Amblydromella) maracus</i> (Chaudhri)	<i>Typhlodromus (Amblydromella) maracus</i> (Chaudhri) —New Comb.
118	Sp. No. 240	<i>Typhlodromus (Amblydromella) ornatulus</i> (Chaudhri)	<i>Typhlodromus (Amblydromella) ornatulus</i> (Chaudhri) —New Comb.
118	Sp. No. 242	<i>Typhlodromus (Amblydromella) serratus</i> (Chaudhri)	<i>Typhlodromus (Amblydromella) serratus</i> (Chaudhri) —New Comb.
121	Sp. No. 248	<i>Typhlodromus (Chiliseius) licini</i> (Tseng)	<i>Typhlodromus (Chiliseius) lienii</i> (Tseng)—New Comb.
121	16B	85-128	97
121	Sp. No. 249	<i>Typhlodromus (Chiliseius) separalus</i>	<i>Typhlodromus (Chiliseius) separatus</i>
123	last line	S-32	S ₄ -32
128	last line	J ₅ -z6	J ₅ -6