

OCCASIONAL PAPER NO. 170

**RECORDS OF THE
ZOOLOGICAL SURVEY OF INDIA**

**Geographical distribution and Zoogeography
of Odonata (Insecta) of Meghalaya, India**

TRIDIB RANJAN MITRA

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of Odonata (Insecta) of Meghalaya, India**

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Zoological Survey of India, Calcutta

Edited by the Director, Zoological Survey of India, Calcutta



सत्यमेव जयते

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INTRODUCTION

The Order Odonata is popularly known as dragonflies. These insects are famous for their power to control the populations of noxious insects viz. mosquitos, termites, flies, aphids etc. They occur all over the world.

The state Meghalaya is situated in the North-eastern part of India. It was created in 1972; previous to this it was within Assam along with Arunachal Pradesh, Mizoram, Manipur, Nagaland. Its physiography is based on three hills- Garo, Khasi and Jaintia. It is divided into five administrative districts. The area is provided with innumerable rivulets and streams flowing in the grooves and gorges of hills and valleys. There are number of lakes, ponds and rivers. The rivers are torrentials and flow in the direction of ranges and from water falls along the precipitous edges (Figs. 1 & 2). The vegetation is dominated by temperate and tropical evergreen forests.

The first record of Odonata from the state was made by Selys and Hagen in 1853 (Lahiri 1987). Lahiri (op. cit) compiled as well as studied the available materials from the state and reported 147 species and subspecies. Prasad and Ghosh (1984 a) described one species which Lahiri did not include. Recently Zoological Survey of India has undertaken a project to study the fauna of the state. In this connection reassessment of fauna of the state is being made. Works so far published and or under preparation do not contain detailed geographical distribution of any taxon as well as Zoogeography.

The present paper is in continuation of the project fauna of Meghalaya series. It contains detailed geographical distribution of each species and subspecies scattered in literature and discussion on zoogeography.

MATERIALS AND METHODS

Odonata materials collected by different parties from Zoological Survey of India were examined in the laboratory at Calcutta. The result of the studies were divided into two parts—state fauna and Zoogeography. The state fauna contains data on collection, keys for identification etc. It has been prepared by Dr. V.D.Srivastava and C.Sinha. In this paper data on collection and species recorded by them have also been omitted.

Taxa have been arranged following Fraser's (1957) Reclassification. Arrangement of species have been made following Lahiri (1987). In case of species and subspecies geographical distribution have been cited with authorities. In case of families and genera names of countries, available in modern literature, have been cited. **Distribution** has been divided into **India** and **outside India**. In case of species and subspecies distribution is divided into **Meghalaya**, **outside Meghalaya** and **outside India**. Localities, **outside Meghalaya but within India**, have been divided tentatively into **Eastern India**, **Western India**, **Northern India**, **Southern India** etc.* since several indeterminate localities viz. Bengal, Assam, Deccan, Western India, Northwest India, Indo-China etc. are prevalent in literature. Indeterminate / broad names of localities have also been retained only when definite localities could not be determined.

* **Eastern India** : Bihar, West Bengal, N.E. India, Orissa and Eastern Ghats of Andhra Pradesh.
Northern India : Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh.
Central India : Aravalli Satpura upland, Northern and central Maharashtra.
Southern India : Tamil Nadu, Southern Maharashtra, Deccan parts of Andhra Pradesh, Karnataka.
Western India : Western Ghats.

SYSTEMATICS AND DISTRIBUTION

Class	:	INSECTA
Order	:	ODDNATA
Suborder	:	ZYGOPTERA
Family	:	AMPHIPTERYGIDAE

Distribution : India : Meghalaya and West Bengal

Outside India : Australia, Bangladesh, Burma Cameroon, China, Guatemala, Honduras, Hongkong, Indonesia, Laos, Malayasia, Mexico, Nigeria, Philippines, Singapore, Thailand.

Genus : *Philogana* Kirby

Distribution : India : Meghalaya and West Bengal.

Outside India : Bangladesh, Burma, China, Hongkong, Malayasia, Nepal, Thailand.

Philogana montana (Selys)

Distribution : Distribution : India (a) : Meghalaya : Shillong, Umrori, Garampani (Lahiri, 1987) Pynursla (Prasad & Ghosh, 1984a) (b) Outside Meghalaya : *Eastern India :* West Bengal, Darjiling (Fraser 1929 a)

Outside India : Bangladesh, Nepal, Malayasia (Tsuda 1991)

Family : CHLOROCYPHIDAE

Distribution : India : Arunachal Pradesh, Assam, Kashmir, Karnataka, Kerala, Nagaland, Orissa, Punjab, Tamil Nadu, Uttar Pradesh, West Bengal and Andaman & Nicobars.

Outside India : Angola, Australia, Benin, Burkina-Faso, Burma, Cameroon, Central African Republic, Congo, Cote d'ivoire, Ethiopia, Gabon, Ghana, Guinea, Indonesia, Japan, Kenya, Laos, Liberia, Malawi, Mali, Mozambique, Nepal, Nigeria, Philippines, Papua, New Guinea, Senegal, Sierra Leone, Solomon Islands, Sri Lanka, South Africa, Sudan, Taiwan, Tanzania, Thailand, Togo, Uganda, Vietnam.

Genus : *Libellago* Selys

Distribution : India : Assam, Karnataka, Kerala, Maharashtra, Meghalaya, Uttar Pradesh, Andaman & Nicobars.

Outside India : Burma, China, Indonesia, Kampuchea, Laos, Malaysia, Nepal, Philippines, Singapore, Taiwan, Thailand, Vietnam.

2. *Libellago lineata lineata* (Burmeister)

Distribution : India : (a) Meghalaya : Rongthan River Bank, Uman, Umrsi, Umtynger (Lahiri 1987). (b) Outside Meghalaya : *Eastern India :* Tripura (Mitra 1994) Cachar (Fraser 1928b) Gopaldhara, Assam (Laidlaw 1917a); *Northen India :* Dehra Dun (Fraser 1928b). Nicobars. (Laidlaw 1917a)

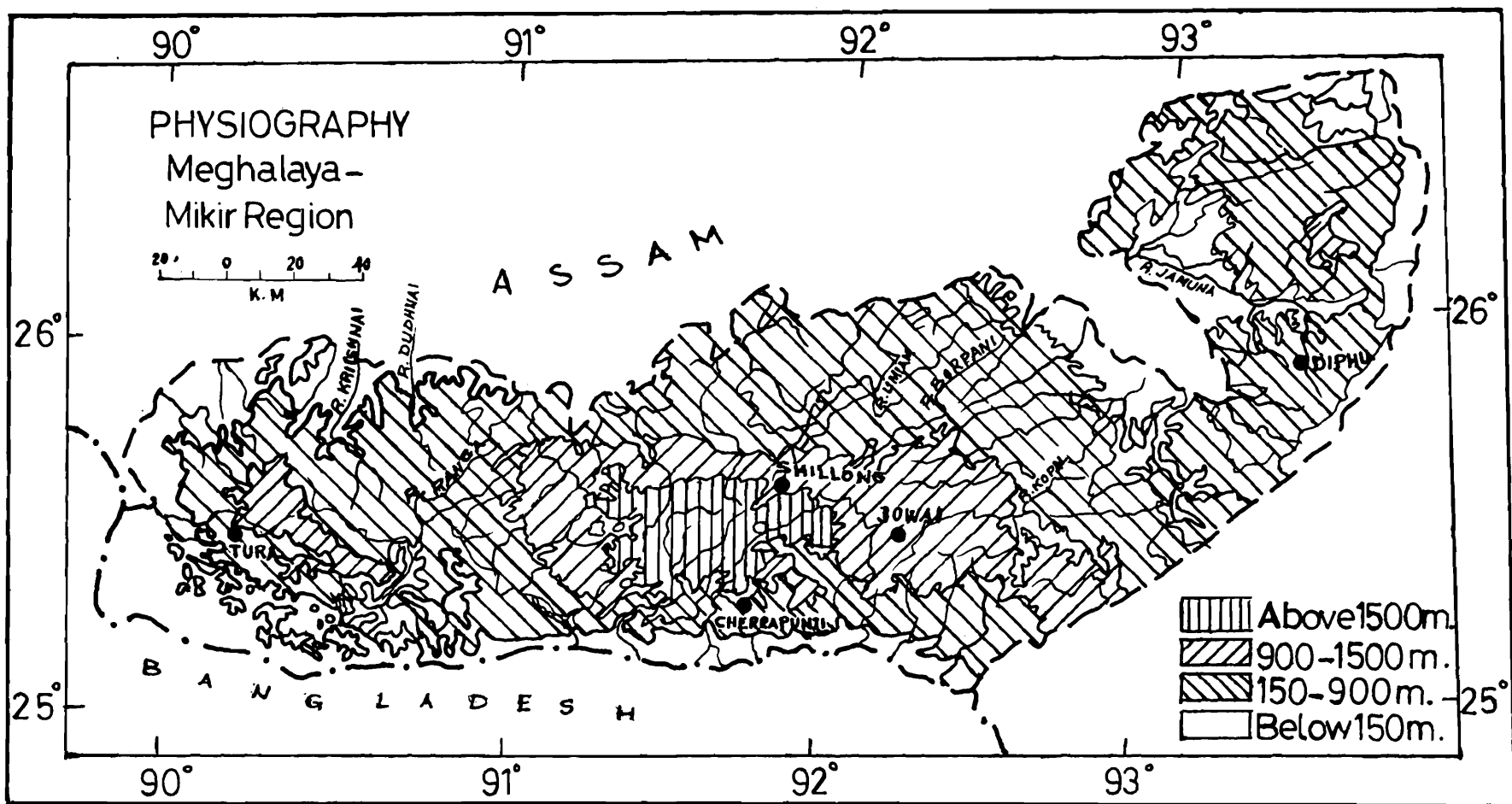


Fig. 1.

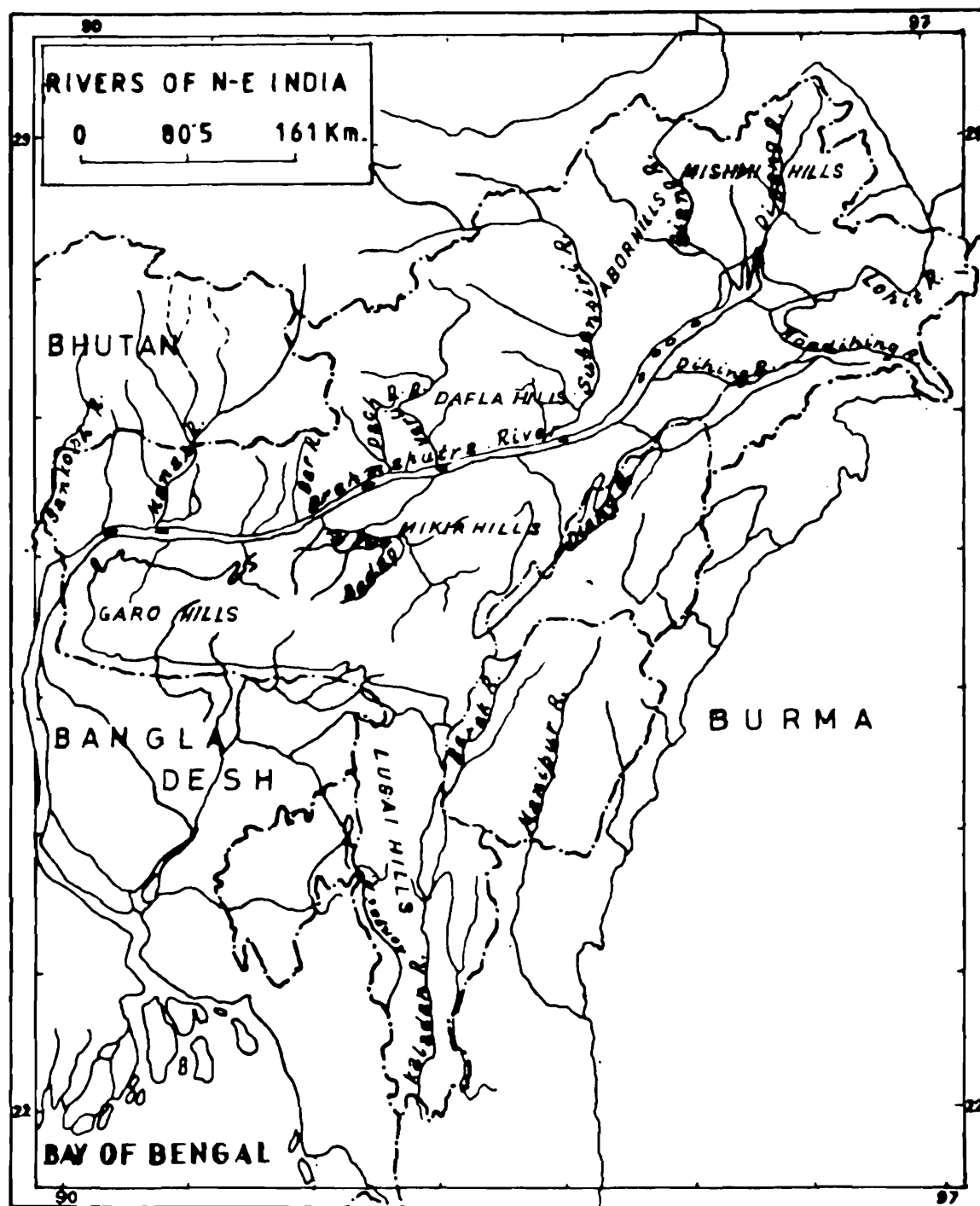
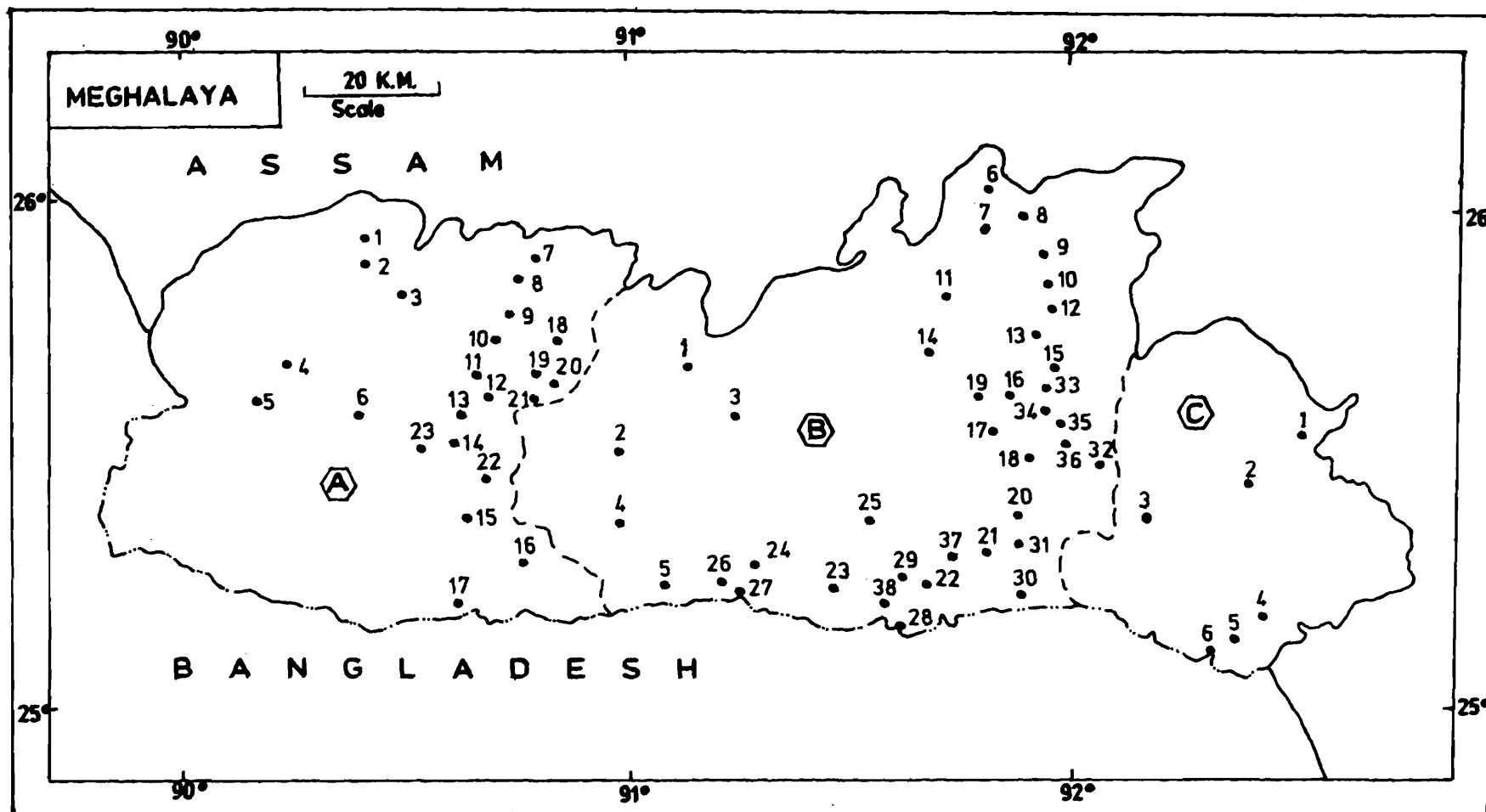


Fig.2.

Fig.3.

**A = GARO HILLS**

1 CHARIKUTY	2 REMGIRI	3 ANOGIRI
5 TEBANGIRI	6 SONGKHAMA	7 DAMRA
9 WAGEASI	10 BANGSI	11 SONGSOK
13 RONGRAM	14 RONGRENGIRI	15 SIJU
17 BAGHMARA	18 DAMBU	19 NAPAK BILL
21 RONG JENG	22 WILLIAM NAGAR	23 TURA

B = KHASI HILLS

1 SONAPAHAR	2 DARUGIRI	3 NONGSTOIN	4 MAWSYNRAM
7 LAILAO	8 UMLINGAT	9 NONGPOH	10 UMSAMLEM
13 UMSHNING	14 MAWIONG	15 BARAPANI	16 SUMER
19 SHILLONG	20 MYLLIEM	21 MAWPHLONG	22 UMTYNGER
25 DYMPEP	26 BALAT	27 SAIMAWDON	28 SHELLA
31 PYNURSLA	32 MAWRYNGK RENG	33 UMROI	34 MAWPAT
37 CHERRAPUNJEE	38 MAWSMAI		

C = JAINTIA

1 GARAMPANI	12 THADLASKEIN
3 SHANGPHUNG	4 SONAPURDI
5 RATACHARA	6 JOWAI

Outside India : Burma (Selys 1891); China (Tsuda 1991); Formosa (Needham 1930); Indonesia, Laos, Malaysia, Bepal, Philippines, Tawian, Thailand, Vietnam (Tsuda 1991).

Genus : ***Rhinocypha*** Rambur

Distribution : *India* : Arunachal Pradesh, Assam, Central India, Karnataka, Kashmir, Kerala, Maharashtra, Manipur, Bagaland, Punjab, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Australia, Bangladesh, Burma, China, Hongkong. Japan, Laos, Nepal, Papua New Guinea, Philippines, Solomon Islands, Taiwan, Thailand, Vietnam.

3. ***Rhinocypha biforata*** Fraser

Rhinocypha beatifia, Lahiri, 1987, *Rec. zool. Surv. India, Occ. pap.* 99 : 25 (with a note).

Distribution : *India* : (a) Meghalaya : Rongrengiri, Songsok, Shella, Umran (Lahiri, 1987). (b) *Outside Meghalaya* : *Eastern India* : Nagaland (Fraser 1934a).

4. ***Rhinocypha biforata delimbta*** Selys

Distribution : *India* : (a) Meghalaya : Rongrengiri, Songsak (Lahiri, 1987). *Outside Meghalaya* : *Eastern India* : Manipur (Lahiri 1979)

Outside India : Burma (Fraser 1928a).

5. ***Rhinocypha ignipennis*** Selys

Distribution : *India* : (a) Meghalaya : Cherrapunji, Jowai, Mawapat, Mawphlong, Mawryngkreneng, Myllem, Shillong, Umroi, Umsning (Lahiri, 1987).

Outside India : Bangladesh, Burma (Tsuda 1991).

6. ***Rhinocypha immaculata*** Selys

Distribution : *India* : *Meghalaya* : Cherrapunji (Laidlaw, 1917a), Khasi Hills (Fraser, 1927b); Mawsynrum (Lahiri, 1987). *Outside Meghalaya* : *Eastern India* : Manipur (Mitra 1994).

Outside India : Bangladesh (Tsuda 1991)

7. ***Rhinocypha quadrimculata*** Selys

Distribution : *India* : (a) Meghalaya : Barapani, Pynursla, Ranikor, Rongtham River Bank, Songsak, Sonapurdi, Uman, Umroi, Umsning (Lahiri, 1987). Mawsami to Shella (Prasad and Ghosh, 1984a).

(b) *Outside Meghalaya* : *Eastern India* : Dejoo, North Lakhimpur, Silonibari (Laidlaw, 1914); Sikkim (Fraser 1934a); Buxa (Bhasin 1953) Manipur, Orissa (Mitra 1994). *Northern India* : Almora Dehra Dun, Mothronwala, Ramgarah (Bhasin, 1953); Kashmir (Fraser, 1934a).

Outside India : Bangladesh (Tsuda 1991), Burma (Fraser (1927a); Nepal (Ashina 1955; Kiauta 1982; St. Quentin 1970).

Note: *R. q. hemihyalina* Fraser is considered synonym of *R. quadrimaculata*.

***Rhinocypha spuria* Selys**

Distribution : *India* : (a) Meghalaya : Barapani, Cherrapunjie, Mawblong, Nongklan, Shella, Shillong, Umsning (Lahiri, 1987). (b) *Outside Meghalaya : Eastern India* : Nagaland (Bhasin, 1953); Assam (Mitra 1994)

9. *Rhinocypha vitrinella* Fraser

Distribution : *India* : (a) Meghalaya : Nongpok (Lahiri 1987). *Outside Meghalaya Eastern India* : Cachar (Assam Fraser, 1935b)

Family : EUPHAEIDAE

Distribution India : Karnataka, Kerala, Meghalaya, Nagaland, Punjab, Sikkim, Tamil Nadu, West Bengal.

Outside India : Afghanistan, Bangladesh, Bulgaria, Burma, China, Cyprus, Greece, Hongkong, Hungary, Indonesia, Iraq, Iran, Israel, Japan, Kampuchea, Laos, Malaysia, Nepal, Pakistan, Philippines, Russia, Syria, Taiwan, Thailand, Turkey, Yugoslavia, Vietnam.

Genus : *Anisopleura* Selys

Distribution : India : Assam, Meghalaya, Punjab, Sikkim, West Bengal.

Outside India : Bangladesh, China, Nepal, Thailand, Vietnam.

10. *Anisopleura subplatystyla* Fraser

Distribution : India : Meghalaya : Barapani, Mawapat, Mawphlong, Umtynger (Lahiri, 1987). *Outside Meghalaya : Eastern India* : Sikkim (Mitra 1994).

11. *Anisopleura vallei* St. Quentin

Distribution : India : Meghalaya : Cherrapunjie (Lahiri 1987).

12. *Anisopleura lieftincki* Prasad and Ghosh

Distribution : India : Meghalaya : Khasi Hill, along the road from Mawasami to Shella (Prasad & Ghosh 1984a).

Genus : *Bayadera* Selys

Distribution : India : Meghalaya, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Bangladesh, China, Japan, Nepal, Taiwan, Thailand.

13. *Bayadera hyalina* Selys

Distribution : India : Meghalaya : Shillong (Lahiri, 1987)

14. *Bayadera kali* Cowley

Distribution : India : Meghalaya : Khasi Hills (Lahiri, 1987).

15. *Bayadera indica* (Seleys)

Distribution : India : (a) *Meghalaya* : Barapani (Lahiri, 1987). (b) *Outside Meghalaya* : *Eastern India* : Darjiling (Laaidl原因 1917a; St. Quentin 1936); Sikkim (Prasad & Ghosh 1984b). *Northern India* : Almora, Dehra Dun, Kaligad, Nunnadi, Ranikhet (Bhasin 1953) Chamoli, Garhwal, Kangra, Pauri, Tehri, Uttaarkashi (Singha & Prasad 1974).

Outside India : Bangladesh, China, Nepal (Tsuda 1991).

Genus ; *Euphaea* Selys

Distribution : India : Arunachal Pradesh, Assam, Karnataka, Kerala, Manipur, Meghalaya, Nagaland, West Bengal.

Outside India : Burma, China, Hongkong, Indonesia, Japan, Kamuchea, Laos, Malayasia, Nepal, Philippines, Taiwan Thailand, Vietnam.

16. *Euphaea ochracea ochracea* (Selys)

Allophaea ochracea, Prasad & Ghosh, 1984, *Bull. Zool. Surv. India* 6 : 40

Distribution : India : (a) *Meghalaya* : Shillong (Fraser 1934a); Khasi Hill along the road from Mawsamai to Shella (Prasad & Ghosh 1984a). (b) *Outside Meghalaya ; Eastern India* : Cachar, Assam (Fraser, 1934a). Arunachal Pradesh, Manipur, West Bengal (Mitra 1994).

Outside India : Burma (Fraser 1934a); Laos, Malayasia, Nepal, Thailand, Vietnam (Tsuda 1991).

17. *Euphaea ochracea brunnea* Selys

Distribution : India : Meghalaya : Barapani, Cherapunjee. Mawphlong, Pymusla, Rongrengiri. Sngsak, Shella, Umran, Umthan (Lahiri, 1987).

Outside India : Burma, Laos, Thailand (Tsuda 1991).

Family : CALOPTERGIDAE

Distribution : India : Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Karnataka, Kerala, Meghalaya, Mizoram, Uttar Pradesh, West Bengal.

Outside India : Afghanistan, Alabama, Algeria, Angola, Argentina, Austria, Bangladesh, Belgium, Belize, Benin, Bolivia, Brazil, Bulgaria, Burkina Faso, Burma, Canada, Cameroon, Central African Republic, China, Costa Rica, Cote d'ivoire, Colombia, Czechoslovakia, Denmark, Egypt, Ecuador, El Salvador, Finland, France, French Guinea, Great Britain, Greece, Germany, Guatemala, Guyana, Honduras, Hungary, Indonesia, Iraq, Israel, Iran, Italy, Japan, Jordan, Kampuchea, Korea, Kenya, Laos, Lebanon, Liberia, Lichtenstein, Luxemburg, Malayasia, Madagascar, Malawi, Martinique, Mexico, Mozambique, Namibia, Netherlands, Nepal, Nicaragua, Panama, Peru, Philippines, Portugal, Romania, Russia, Senegal, Sierra Leone, South Africa, Somalia, Spain, Surinam, Sweden, Switzerland, Syria, Taiwan, Tanzania, Thailand, Tobago, Trinidad, Tunisia, Turkey, United States of America, Vietnam, Venezuela, Yemen, Yugoslavia, Zambia, Zimbabwe.

Genus : *Caliphaea* Selys*Distribution* : India : Meghalaya and West Bengal.*Outside India* : Bhutan, Burma, China, Laos, Nepal, Thailand.18 *Caliphaea confusa* Hagen in Selys (1859)*Distribution* : India (a) Meghalaya Mawphlong (Lahiri 1987).(b) *Outside Meghalaya* : Eastern India West Bengal (Lahiri 1987).*Outside India* : Bhutan Burma, China, Laos, Nepal, Thailand. (Tsuda 1991).Genus : *Echo* Selys*Distribution* : India : Meghalaya*Outside India* : Bangladesh, Burma, China, Indonesia, Malayasia, Thailand, Vietnam.19 : *Echo margarita tripartita* Selys*Distribution* : India : Meghalaya : Mawpat, Mawrapat, Mawsynram Shillong, Umsning (Lahiri 1987).20 : *Echo margarita margarita* Selys*Distribution* : India : Meghalaya : Cherrapunjee (Fraser 1934a)*Outside Meghalaya* : Eastern India : Arunachal Pradesh, Manipur (Mitra 1994)*Outside India* : Bangladesh, Burma (Tsuda 1991).Genus : *Matrona* Selys*Distribution* : India : Meghalaya.*Outside India* : Bangladesh, China, Laos, Taiwan, Thailand, Vietnam.21 : *Matrona basilaris basilaris* Selys*Distribution* : India : Meghalaya : Khasi Hills (Selys 1891) ; Shillong (Fraser 1919a).*Outside Meghalaya* : Eastern India : Arunachal Pradesh (Mitra 1994)*Outside India* : Bangladesh, China, Laos, Taiwan, Vietnam (Tsuda 1991).22 : *Matrona basilaris nigripectus* Selys*Distribution* : India : Meghalaya : Khasi Hills (Fraser 1929b; 1934a); Barapani, Cherrapunjee, Mawpat, Myllem, Pynursla, Umsning (Lahiri 1987).*Outside Meghalaya* : Eastern India : Arunachal Pradesh, Mizoram (Mitra 1994).*Outside India* : Burma, Thailand, Vietnam (Tsuda 1991).Genus : *Neurobasis* Selys*Distribution* : India : Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Uttar Pradesh, Tamil Nadu, West Bengal.

Outside India : Australia, Bangladesh, Burma, China, Hongkong, Indonesia, Laos, Malaysia, Nepal, Papua New Guinea, Philippines, Sri Lanka, Thailand, Vietnam.

23 : *Neurobasis chinensis chinensis* Linne

Distribution : India : (a) *Meghalaya* : Cherrapunjee (Prasad & Ghosh 1984a); Barapani, Rongrengiri, Songkhama, Songsak, Mawpat, Myllem, Umran, Umsning, Umthan, Wageasai (Lahiri, 1987).

(b) *Outside Meghalaya : Eastern India* : Assam, Bengal, Vizagapattam (Fraser 1929b); Singhbhum (Bhasin 1953); Manipur (Lahiri 1977b); Mizoram (Lahiri 1979); Dejoo, North Lakhimpur, Saidya (Laidlaw 1914); *Northern India* : Dehra Dun, Lachiwala, Naini Tal, Bhim Tal (Bhasin 1953); *Western India* : Anaimalai, Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgiris, Palni Hills, Travancore (Fraser 1931); *Southern India* : Deccan (Fraser 1931).

Outside India : Bangladesh, Burma, China, Hongkong, Laos, Malaysia (Tsuda 1991); Moluques (Selys 1891); Nepal (Asahnia 1955; Kiauta & Kiauta 1982; St. Quentin 1970); Philippines, Sumatra (Selys 1891); Sri Lanka (Lieftinck 1971); Thailand (Kiauta & Kiauta 1983b); Java (Brauer 1864).

Genus : *Vestalis* Selys

Distribution : India : Andhra Pradesh, Assam, Bihar, Gujarat, Karnataka, Kerala, Maharashtra, Meghalaya, Tamil Nadu, West Bengal.

Outside India : Bangladesh, Burma, China, Indonesia, Kampuchea, Laos, Malaysia, Philippines, Thailand, Vietnam.

24 : *Vestalis gracilis gracilis* (Rambur)

Distribution : India : Meghalaya : Barapani, Darugiri, Ranikor, Rongrengiri, Sumer, Umroi, (Lahiri 1987), *Outside Meghalaya : Eastern India* : Abor Hills, Gopaldhara, Sibsagar (Laidlaw 1917a); North Lakhimpur (Laidlaw 1914), Bengal, Assam (Fraser 1929b); Singhbhum (Bhasin 1953); Manipur, (Bhasin 1953); Manipur, Tripura (Mitra 1994); *Western India* : Anaimalai, Bolomvumpattis, Cochin, Coorg, Kanara, Malabar, Travancore (Fraser 1931) *Southern India* : Deccan (Fraser 1931).

Outside India : Bangladesh, (Tsuda 1991); Burma (Bhasin 1953) China (Needham 1930); Kampuchea, Laos, Malaysia, Nepal (Tsuda 1991); Thailand (Kiauta & Kiauta 1983b) Tityavan 1979); Thibet (Selys 1891); Yunan (Moore 1878); Vietnam (Tsuda 1991).

25 : *Vestalis smaragdina smaragdina* (Selys)

Distribution : India : Meghalaya : Khasi Hills, Shillong (Fraser 1929b ; 1934a).

Outside Meghalaya : Eastern India : Tripura (Mitra 1994).

Outside India : Burma (Laidlaw 1917a ; Lieftinck 1948; Selys 1891); China, Formosa (Needham 1930); Moupin (Mc Lachlan 1896a); Thibet (Lieftinck 1948).

Family : SYNLESTIADAE

Synlestidae has Priority over Chlorolestidae hence it has been accepted here instead of Chlorolestidae. The Family has sometimes been referred to as Chlorolestidae, a name based on that of the oldest genus included, *Chlorolestes* described to by Selys (1862 : *Bull. Acad. r. Belge* (2) 14 : 33; Type species, *C. Conspicua* Selys). *Synlestes* described by Selys (1896 : *Soc. ent. Belg.* II : lxxvi; Type species : *S. weyerii* Selys.) Fraser (1957) proposed Chlorolestidae which contains Subfamily Chlorolestinae and Megalestinae. Chlorolestinae Includes *Synlestes* Selys. But Tillyard already (1917 : *Biology of Dragonflies pp.* 277, 283) defined the subfamily, Synlestinae in the family Lestidae. this subfamily contains genera, *Synlestes* and *Chlorolestes*. This is the first family-rank treatment; so after the separation from the family Lestidae and elevation to do family status the valid name is Synlestidae Tillyard. Similar Opinion is hold by Dr. S. Tsuda.

Distribution : India : Arunachal Pradesh, Assam, Meghalaya, Punjab, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Bangladesh, Bhutan, Burma, China, Haiti, Lesotho, Malawi, Mozambique, Nepal, Swaziland, South Africa, Thailand, Zimbabwe.

Genus : *Megalestes* Selys

Distribution : India : Arunachal Pradesh, Assam, Meghalaya, Punjab, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Bangladesh, Bhutan, Burma, China, Nepal, Taiwan, Thailand.

26. *Megalestes major* Selys

Distribution : India : (a) *Meghalaya* : Shillong (Asahina 1963; Fraser 1929c) (b) *Outside Meghalaya : Eastern India* : Darjiling, Gopal dhara, Pashoke (Laidlaw 1920a); Assam Mawphlong, Sikkim (Fraser 1929c); Mizoram (Mitra 1994). *Northern India* : Bhim Tal, Kumaon (Laidlaw 1920a); Dehra Dun, Mukteswar, North Punjab Hills (Fraser 1929c), Garhwal Hills (Prasad 1974).

Outside India : Bangladesh, Bhutan (Tsuda 1991); Burma (Tonken), Formosa (Laidlaw 1920); Nepal (Fraser 1929c).

27. *Megalestes raychaudhuri* Lahiri

Distribution : India : Meghalaya : Sillong (Nonghtymmai), Tripura Castle Road, Mawhplong (Lahiri 1987).

Family : LESTIDAE

Distribution : India : Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Maharastra, Meghalaya, Orissa, Punjab, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Cosmopolitan

Genus : *Indolestes* Fraser

Distribution : India : Meghalaya and Assam region.

Outside India : Australia, Bangladesh, Bhutan, Burma, China, Fiji, Indonesia, Japan,

Korea, Malayasia, Nepal, New Caledonia, Papua New Guinea, Sri Lanka, Taiwan, Thailand, Vanautu.

28 : *Indolestes indica* Fraser

Distribution : India : Meghalaya : Jakrim, Mawpat, Mawphlong, Shillong, Umthan, Weiloi (Lahiri 1987).

Outside India : Bangladesh (Tsuda 1991).

Genus : *Orolestes* Mc Lachlan

Distribution : India : Arunachal Pradesh, Meghalaya, West Bengal.

Outside India : Brunei, Indonesia, Kampuchea, Laos, Malayasia, Taiwan, Thailand, Vietnam.

29 *Orolestes durga* Lahiri

Distribution : India : (a) Meghalaya : Rongrengiri (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Arunachal Pradesh (Lahiri 1987).

Genus : *Lestes* Leach

Distribution : India : Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Cosmopolitan

30. *Lestes concinus* Selys

Distribution : India : Meghalaya : Rongram (Lahiri, 1987).

Outside India : Australia, Bhutan, Burma, China, Indonesia, New Calendonia, Philippines, Taiwan, Thailand. (Tsuda 1991)

31. *Lestes dorothea* Selys

Distribution : India : (a) Meghalaya : Nongpoh (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Assam (Fraser 1933c) ; Western India : Coorg (Fraser 1933c).

Outside India : Malayasia, Nepal, Thailand (Tsuda 1991).

32. *Lestes garoensis* Lahiri

Distribution : India : (a) Meghalaya : Rongrengiri (Lahiri 1987). (b) Outside Meghalaya Eastern India : Ukhral, Morch, Manipur (Lahiri 1987).

Family : PROTONEURIDAE

Distribution : India : Andhra Pradesh, Assam, Andaman, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, TamilNadu. West Bengal.

Outside India : Angola, Cameroon, Central Africa, Cote d'ivoire, Gabon, Guinea, Indonesia, Liberia, Malawi, Malayasia, Mozambique, Nigeria, Sierra Leon, Sri Lanka, South Africa, Togo, Uganda, Zambia, Zimbabwe.

Genus : *Elattoneura* Cowley

Distribution : *India* : Assam, Karnataka, Kerala, Maharashtra, Meghalaya, Madhya Pradesh, Uttar pradesh, West Bengal.

Outside India : Angola, Burkina Faso, Burma, Botswana, Cameroon, Central Africa, Coted' ivoire, Congo, Equatorial Guinea, Gabon, Guinea, Indonesia, Kenya, Liberia, Mali, Malayasia, Malawi, Mozambique, Namibia, Nigeria, Oman, Senegal, Somalia, Sri Lanka, Swaziland, Uganda, Tanzania, Zaire, Zambia, Zimbabwe.

33. *Elattoneura atkinsoni* (Selys)

Distribution : *India* : *Meghalaya* : Jowai, Mawpat, Myllem, Pynursla, Shillong, Thadlaskein, Umsning, Umtynger, Weilo (Lahiri 1987).

34. *Elattoneura campinoni campioni* (Fraser)

Elattoneura campioni, Lahiri, 1987, *Rec zool. Surv. India, Occ. pap.*

99 :

Distribution : *India* : (a) *Meghalaya* : Barapani, Umsning (Lahiri, 1987) (b) *Outside Meghalaya* : *Eastern India* : Assam, Margharita (Kimmins 1966).

Outside India : Burma (Fraser 1933c).

Genus : *Prodasineura* Cowley

Distribution : *India* : Andaman, Kerala, Maharastra, Meghalaya, Tamil Nadu, West Bengal.

Outside India : Bangladesh, Burma, China, Congo, Cote d' ivoire, Equatorial Guinea, Hongkong, Indonesia, Liberia, Malayasia, Nepal, Nigeria, Philipines, Singapore, Sri Lanka, Taiwan, Thailand, Vietnam, Zimbawe.

35. *Prodasineura autumnalis* (Fraser)

Distribution : *India* : *Meghalaya* : Bangsi, Barapani Road, Napak beel, Rongtham River bank, Shillong, Umsning (Lahiri 1987).

Outside India : Burma, China, Hongkong, Indonesia, Malayasia, Nepal, Thailand, Vietnam (Tsuda 1991).

Family : PLATYCNEMIDIDAE

Distribution : *India* : Assam, Himachal Pradesh, Karnataka, Maharastra, Meghalaya, Sikkim, Tamil nadu, West Bengal.

Outside India : Albania, Algeria, Angola, Austria, Bangladesh, Belgium, Bhutan, Burgaria, Burma, Botswana, Cameroon, Checkoslovakia, China, Comoros, Congo, Cote d' invorie, Denmark,

Ethiopia, Finland, Egypt, France, Gabon, Germany, Great Britain, Greece, Hongkong, Hungary, Indonesia, Iraq, Italy, Japan, Korea, Kampuchea, Kenya, Laos, Lebanon, Liberia, Luxemburg, Madagascar, Malawi, Malayasia, Mozambique, Namibia, Nepal, Netherlands, Nigeria, Norway, Oman, Papua New Guinea, Philippines, Portugal, Russia (Soviet), Romania, Singapore, Senegal, Solomon Is., Seychelles, Sierra Leone, South Africa, Spain, Syria, Sudan, Sri Lanka, Swaziland, Sweden, Switzerland, Taiwan, Thailand, Tunisia, Turkey, Uganda, Vietnam, Yemen, Yugoslavia, Zambia, Zaire, Zimbabwe.

Genus : *Copera* Kirby

Distribution : India : Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nicobars, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Bangladesh, Burma, China, Hongkong, Indonesia, Japan, Kampuchea, Laos, Malayasia, Nepal, Philippines, Taiwan, Vietnam, Thailand.

36. *Copera ciliata* Selys

Copera annulata, Lahiri, 1987, *Rec. zool. Surv. India. Occ. pap.* 99 : 75.

Distribution : India : (a) Meghalaya : Chitmaring beel (Lahiri 1987). (b) *Outside Meghalaya* : Eastern India : Assam, Bengal (Fraser 1933c); Lakhimpur (North) (Laidlaw 1914); Manipur (Lahiri 1977b), Nicobar Island. (Mittra 1995)

Outside India : Bangladesh, Burma (Tsuda 1991); China (Rowe 1981); Hongkong (Tsuda 1991); Indo-China, Japan (Fraser 1933c); Kampuchea (Tsuda 1991); Malacca (Laidlaw 1917b); Malayasia (Brooks 1981); Taiwan (Tsuda 1991); Thailand (Kiauta & Kiauta 1983b); Vietnam (Tsuda 1991).

37. *Copera marginipes* (Rambur)

Distribution : India : (a) Meghalaya : Napakbeel (Lahiri 1987); (b) *Outside Meghalaya* : Eastern India : Manipur (Mittra 1994), Assam, Jalpaiguri, Marghaita (Fraser 1933c); Singhbhum (Bhasin 1953), Northern India DehraDun, Kangra (Singh & Prasad 1974); Nainital (Sahni '65) Southern India : Bangalore (Bhasin 1953); Deccan (Fraser 1931), Western India : Bolovumpattis (Fraser 1931); Bombay (Fraser 1933c) Cochin (Laidlaw 1917b); Coorg (Fraser 1931); Mahabaleswar (Fraser 1933c); Malabar, Nilgiris (Fraser 1931); Palni Hills (Fraser 1924a); Poona (Fraser 1919a, 1933c).

Outside India : Bangladesh (Tsuda 1991); Burma (Bhasin 1953; Selys 1891); Ceylon (Lieftinck 1971); China (Tsuda 1991); Hongkong, Laos (Tsuda 1991); Malayasia (Brooks 1981); Nepal (St. Quentin 1970); Taiwan (Tsuda 1991); Tennasserim in Burma (Lieftinck 1948); Thailand (Kiauta & Kiauta 1983b, Tsuda 1991); Vietnam (Tsuda 1991).

38. *Copera vittata serapica* Selys

Copera vittata. Lahiri, 1987, *Rec. zool. Surv. India. Occ. pap.* 99 : 76

Distribution : India : (a) Meghalaya : Nepak beel, Rongrengiri, Songsak, Umran (Lahiri 1987). (b) *Outside Meghalaya* : Eastern India: Bengal (Fraser 1933c); Sibsagar (Assam)

(Bhasin 1953) Arunachal Pradesh (Mitra 1994) *Western India* : Annaimalai (Fraser 1933b); Cochin (Laidlaw 1917b); Coorg, Malabar, Nilgiris, Wynaad (Fraser 1924a). Nicobar (Fraser 1933c).

Outside India : Bangladesh, Burma, Indonesia, Malayasia, Nepal, Thailand (Tsuda 1991).

Genus : *Calicnemia* Strand

Distribution : *India* : Assam, Meghalaya, Sikkim, Uttar Pradesh West Bengal.

Outside India : Afghanistan, Bangladesh, Bhutan, Burma, China, Hongkong, Laos, Malayasia, Nepal, Taiwan, Thailand, Vietnam.

39. *Calicnemia eximia* (Selys)

Distribution : *India* : (a) *Meghalaya* : Barapani, Shillong (Lahiri 1987) (b) *Outside Meghalaya* : *Eastern India* : N.E. India, Assam, Darjiling, Sikkim (Fraser 1932b; 1933c), *Northern India* : Kumaon (Laidlaw 1917b) : Uttar pradesh (Bhasin 1953).

Outside India : Afganistan, Bangladesh (Tsuda 1991); China (Needham 1932); Nepal (St. Quentin 1970); Taiwan (Tsuda 1991).

40. *Calicnemia imitans* Lieftinck

Distribution : *India* : (a) *Meghalaya* : Balat, Pynursla, Sonapurdi (Lahiri 1987).

Outside India : Burma, China, Nepal, Thailand (Tsuda, 1991).

41. *Calicnemia mukherjeei* Lahiri

Distribution : *India* : *Meghalaya* : Barapani (Roadside), Shillong (Lahiri 1987).

42. *Calicnemia pulverulans* Selys

Distribution : *India* : (a) *Meghalaya* : Khasi Hills (Prasad & Ghosh 1984a) (b) *Outside Meghalaya* : *Eastern India* : Darjiling (Laidlaw 1917b); Sikkim (Fraser 1932b; 1933c; Selys 1891). *Northern India* : Uttar Kashi and Tehri (Singh & Prasad 1974).

Outside India : Bangladesh, Burma, Nepal (Tsuda 1991).

Genus : *Coellicia* Kirby

Distribution : *India* : Himachal Pradesh, Meghalaya, Sikkim, West Bengal.

Outside India : Bangladesh, Burma, China, Hongkong, Indonesia, Japan, Kampuchea, Laos, Malayasia, Nepal, Philippines, Singapore, Taiwan, Thailand, Vietnam.

43. *Coellicia bimaculata* Laidlaw

Distribution : *India* : (a) *Meghalaya* : Garo Hills, Tura (Fraser 1932,1933c); Shillong, Khasi Hills (Prasad & Ghosh 1984a). (b) *Outside Meghalaya* : *Eastern India* : Abor Hills (Laidlaw 1917b); Dejo, Upper Assam (Laidlaw 1914).

Outside India : Bangladesh (Tsuda 1991).

44. *Coelliccia fraseri* Laidlaw

Distribution : India : Meghalaya : Barapani, Nawpat, Mawphlong, Shillong, Weilo (Lahiri 1987).

45. *Coelliccia sarbottama* Lahiri

Distribution : India : Meghalaya : Wageasi (Lahiri 1987).

46. *Coelliccia didyma didyma* (Selys)

Coelliccia didyma, Lahiri, 1987, *Rec. zool. Surv. India, Occ. Pap.* 99 : 86.

Distribution : India : (A) Meghalaya : Anogiri, Ranikor, Rongram (10 kms east of Rongram) (Lahiri 1987). (b) *Outside Meghalaya : Eastern India : Assam Burma border* (Asahina 1984), *Northern India : Simla* (Himachal Pradesh) (Fraser 1933c).

47. *Coelliccia vacca* Laidlaw

Distribution : India : Meghalaya : Tura, Garo Hills (Lahiri 1987).

Outside India : Bangladesh (Tsuda 1991)

Genus : *Indocnemis* Laidlaw

Distribution : India : Meghalaya

Outside India : Bangladesh, China, Malayasia, Thailand, Vietnam.

48. *Indocnemis kemp* Laidlaw

Distribution : India : Meghalaya : Cherrapunjee (Fraser 1933c); *Umran* (Lahiri 1987).

Outside India : Bangladesh, China, Malayasia, Thailand, Vietnam (Tsuda 1991).

Family : COENAGRIONIDAE

Distribution : India : Andaman Is., Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Goa, Gujrat, Haryana, Himachal Pradesh, Jammu, Karnataka, Kashmir, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Nicobar Is. Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal. Outside India : Both old and New World.

Genus : *Ceriagrion* Selys

Distribution : India : Andaman Is. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Goa, Gujrat, Haryana, Himachal Pradesh, Jammu, Karnataka, Kashmir, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nicobar Is., Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal.

Outside India : Algeria, Angola, Australia, Austria, Bangladesh, Belgium, Benin, Botswana, Burkina Faso, Burma, Central Africa, Republic China, Congo, Coted'ivoire, Egypt, Ethiopia,

France, Gabon, Germany, Gana, Great Britain, Guinea, Guinea-Bissau, Hongkong, Hungary, Indonesia, Italy, Japan, Kampuchea, Kenya, Korea, Lao peop. Dem. Republic, Liberia, Madagascar, Malayasia, Malawi, Mali, Mauritius, Morocco, Mozambique, Namibia, Nepal, Netherlands, Niger, Nigeria, Pakistan, Papua-New Guinea, Philippines, Reunion, Senegal, Seychelles, Singapore, Sierra Leone, Solomon Islands, Somalia, South Africa, Sudan, Syria, Swaziland, Taiwan, Tanzania, Thailand, Togo, Vietnam, Zaire, Zambia, Zimbabwe.

49. *Ceriagrion azureum* (Selys)

Distribution : India : (a) Meghalaya : Khasi Hills (Fraser 1933c). (b) *Outside Meghalaya* : Eastern India : Arunachal Pradesh (Lahiri 1985), Mizoram (Mizoran (Mitra 1994)
Outside India : Bangladesh, Burma, China, Laos, Nepal, Thailand (Tsuda 1991).

50. *Ceriagrion coromandelianum* (Fabricius)

Distribution : India : (a) Meghalaya : Bangsi, Chitamaring beel, Wageasi (Lahiri 1987). (b) *Outside Meghalaya* : Eastern India : Andhra Pradesh (Joseph & Satyarani 1988), Bihar (Prasad & Varshney 1988), Buxa (Bhasin 1953); Calcutta (Laidlaw 1916b); Dibrugarh (Laidlaw 1914); Mizoram (Lahiri 1979); Pusa (Bhasin 1953) ; Purneah, Sibsagar (Laidlaw 1916b); Tripura (Lahiri 1977a); Southern India : Tamil Nadu (Kumar 1990; Miller 1990). Northern India : Agra (Baijal & Agarwal 1955); Dehra dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Uttar Pradesh (Ram et. al 1983).

Outside India : Burma (Bhasin 1953; Laidlaw 1925b); Ceylon (Lieftinck 1955, 1971); China (Needham 1970); Indo-China (Laidlaw 1916b); Nepal (Kiauta & Kiauta 1982a; St. Quentin 1970; Pakistan (Khaliq & Yousuf 1993).

51. *Ceriagrion fallax cerinomelas* Lieftinck

Ceriagrion fallax, Lahiri, 1987, *Rec. zool. Surv. India Occ. Pap.* 99 : 92.

Distribution ; India : (a) Meghalaya : Mawalali, Nongpoh (Lahiri 1987) Shillong (Asahina 1967; Lahiri 1987); (b) *Outside Meghalaya* : Eastern India : Assam, Bengal, Sikkim (Asahina 1967; Fraser 1933c); Manipur (Asahina 1967; Lahiri 1987).

Outside India : Bangladesh (Dasgupta 1957); Burma, Malaya, Thailand (Asahina 1976).

52. *Ceriagrion olivaceum* Laidlaw

Distribution : India : (a) Meghalaya : Barapani, Mawsynaram, Nongpoh, Umroi, Umtham (Lahiri 1987); Shillong (Fraser 1924b). (b) *outside Meghalaya* : Eastern India : Assam (Lahiri 1979 ; Laidlaw 1916b; Lieftinck 1948). Bengal (Lieftinck 1948); Buxa (Bhasin 1953). Western India : Coorg (Fraser 1931); Nilgiris (Kimmins 1966); Poona, Satara (Fraser 1942b). Wynaad (Fraser 1931). Central India : Gwalior (Baijal & Agarwal 1955).

Outside India : Bangladesh (Tsuda 1991); Burma (Fraser 1924b; Laidlaw 1916b; Lieftinck 1948). Kampuchea, Laos, Malayasia, Nepal, Thailand. Vietnam, Vietnam (Tsuda 1991).

Genus : *Pseudagrion* Selys

Distribution : India Andaman Is. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Nicobar Is., Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal.

Outside India : Angola Australia, Bangladesh, Burma, Cameroon, Celebes, China, Ivory Coast, Java, Luzon, Madagascar, Marques Is., Mayotte Is., Natal, Nigeria, Palestine, Papua, Philippines, Senegal, Siberia, Sierra Leone, Solomon Is., Sunda Is., Syria, Sri Lanka, Timor Transvaal, Upper Congo, West Africa, Zambia, Zambezi, Zimbabwe.

53. *Pseudagrion australasiae* Selys

Distribution : India : (a) *Meghalaya* : Wageasi (7 Kms South of) (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Assam, Bengal (Fraser 1933c); Calcutta (Laidlaw 1919); Howrah (Dasgupta 1957; Ram et. al 1982); Manipur (Lahiri 1977b).

54. *Pseudagrion spencei* Fraser

Distribution : India : (a) *Meghalaya*: Bangsi, Ratachara, Wageasi (Lahiri 1987); Shillong (Kimmins 1966, Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Bihar (Prasad & Varshney 1988); Howrah (Ram et. al 1982); Midnapore (Dasgupta 1957). *Northern India* : Uttar Pradesh (Ram et. al 1983).

Outside India : Bangladesh, Hongkong (Tsuda 1991); Nepal (st. Quentin 1970); Pakistan (Khaliq & Yousuf 1993a).

55. *Pseudagrion rebriceps rubriceps* Selys

Distribution : India : (a) *Meghalaya* : Bangsi, Charikuty, Rongrengiri, Rongthana river bank, Songsak, Wageasi (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Assam (Lahiri 1979); Bihar (Prasad & Varshney 1988); Calcutta (Mittra 1983); Hooghly, Howrah (Ram et al 1982), Tamil Nadu (Kumar 1990). Orissa, Tripura (Mittra 1994). *Western India* : Bolovumpattis, Coorg, Kanara, Malabar, Nilgiris (Fraser 1931); Poona (Fraser (1942b). *Northern India* : Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Lachiwala, Mothronwala, Nalapani (Bhasin 1953) *Southern India* : Tamil Nadu (Kumar 1990) Deccan (Fraser 1931). *Central India* : Madhya Pradesh, Raipur (Bhasin 1953); Nagpur (Laidlaw 1919).

Outside India : Bangladesh (Tsuda 1991); Burma, Palon (Laidlaw 1916a; Selys 1891); Formosa (Fraser 1933c); Hongkong (Tsuda 1991); Indo-China (Fraser (1933c); Indonesia (Tsuda 1991); Java (Laidlaw 1916a; Nepal (Tsuda 1991); Pakistan (Khaliq & Yousuf 1993a), Philippines, Thailand (Tsuda 1991).

Genus : *Aciagrion* Selys

Distribution : India : Arunachal Pradesh, Assam, Bihar, Goa, Karnataka, Kerala, Maharashtra, Manipur Meghalaya, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, West Bengal.

Outside India : Angola, Australia, Bangladesh, Botswana, Burma, China, Congo, Coted'

ivorie, Gabon, Indonesia, Japan, Kampuchea, Korea, Liberia, Malayasia, Malawi, Mozambique, Nepal, Papua New Guinea, Pakistan, Singapore, Sri Lanka, Taiwan, Thailand, Tanzania, Uganda, Zambia, Zimbabwe, Zaire.

56. *Aciagrion tillyardi* Laidlaw

Distribution : *India :* (a) *Meghalaya :* Cherrapunjee (Laidlaw 1991); Barapani, Grampani, Mawpat, Nongpoh, Nongstion, Pynursla, Sonapahar, Sumer, Umran, Umsning, Umtham, Thadlaskein (Lahiri 1987). (b) *Outside Meghalaya : Eastern India :* Arunachal Pradesh (Lahiri 1979); Manipur (Lahiri 1977b); Nagaland (Bhasin 1953).

Outside India : Indonesia (Tsuda 1991).

57. *Aciagrion pallidum* Selys

Distribution : *India :* (a) *Meghalaya :* Bagmara, Barapani, Mawpat, Ranikor, Songsak, Umroi, Umthan (Lahiri 1987). (b) *Outside Meghalaya : Eastern India :* Arunachal Pradesh (Lahiri 1979); Assam (Lahiri 1979; Laidlaw 1924 : Bihar (Prasad & Varshney 1988); Darjeeling (Laidlaw 1919); Dibrugarh, N.E. Assam (Laidlaw 1914); Nurbong, Bottom of Mahanadi Valley (Laidlaw 1919); Sikkim (Lieftinck 1948). Orissa, Tripura (Mitra 1994). *Northeren India :* Garhwal Hills (Prasad 1974); Uttar Pradesh (Kumar 1982; Ram et al 1983). *Western India :* Khandala (Fraser 1924b); Kanara (Laidlaw 1924); Mahabaleswar (Fraser 1924b); Mormugao (Laidlaw 1919); Poona, Satara, Western Ghats (Fraser 1933c). *Central India :* Nagpur (Laidlaw 1924). *Southern India :* Deccan (Fraser 1931).

Outside India : Burma (Laidlaw 1924; Lieftinck 1948); Nepal (Asahina 1955); Kampuchea, Thailand, Vietnam (Tsuda 1991).

Genus : *Enallagma* Charpentier

Distribution : *India :* Assam, Karnataka, Manipur, Meghalaya, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Afghanistan, America (North, Central & South) Cameroon, Caucasus, Cuba, Germany, Japan, Madagascar, Maldives, Mongolia, Rhodesia, Russia, Sri Lanka, Zanzibar.

58. *Enallagma parvum* Selys

Distribution : *India :* (a) *Meghalaya :* Barapani, Nepak beel, Rongram, Wageasi (Lahiri 1987). (b) *Outside Meghalaya : Eastern India :* Assam, Bengal (Duars) (Fraser 1933c); Calcutta (Lahiri & Mitra 1976); Manipur (Lahiri 1977b); Sikkim (Fraser 1933c) *Western India :* Western Ghats (Fraser 1924b). *Northern India :* Uttar Pradesh (Ram et. al 1983).

Outside India : Burma, Ceylon (Lieftinck 1971b) Nepal (St. Quentin 1970); Pakistan (Khaliq & Yousuf 1993b) Thailand (Tsuda 1991).

Genus : *Ischnura* Charpentier

Distribution : *India :* Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal.

Outside India : Both old and New World.

59. *Ischnura aurora aurora* (Hagen)

Distribution : *India* : (a) *Meghalaya* : Damra, Garampani, Jakrim, Jowai, Nonghylan, Pynursla, Sonpahara, Sonapurdi, Shillong, Thadlaskein (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Arunachal Pradesh, Assam (Lahiri 1979); Bengal (Selys 1891), Barkuda Island (Fraser & Dover 1922); Bihar (Prasad & Varshney 1988); Waltair (Mitra 1976). Mizoram (Mitra 1994). *Northern India* : Uttar Pradesh (Kumar 1982); Dehra Dun, Gorakhpur (Bhasin 1953); Rajasthan (Prasad & Thakur 1981); Surpur (Bhasin 1953). *Central India* : Chhindwara (Mitra 1988); Nagpur (Laidlaw 1919). *Southern India* : Deccan (Fraser 1931). TamilNadu (Kumar 1990; Miller 1992). *Western India* : Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgiris (Fraser 1931); Silent Valley (Rao & Lahiri 193).

Outside India : Afghanistan (Tsuda 1991); Australia (Laidlaw 1916b; Selys 1891); Bangladesh (Tsuda 1991); Burma (Iado) (Selys 1891); Ceylon (Laidlaw 1916b; Lieftinck 1971; Selys 1891); China (Needham 1930); Indonesia, Iran, Japan (Tsuda 1991); Micronesia (Lieftinck 1962); Pakistan, Philippines, Thailand (Tsuda 1991); Tahiti (Selys 1891); Taiwan (Tsuda 1991).

60. *Ischnura rufostigma rufostigma* Selys

Distribution : *India* : (a) *Meghalaya* : Rongrengiri, Rongtham river bank, Sonapurdi, Wageasi (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Assam, Bengal, Calcutta (Lahiri 1987). Dibrugarh, N.E. Assam (Laidlaw 1914). Manipur (Lahiri 1977b).

Outside India : Burma (Bhasin 1953); China (Needham 1930).

Genus : *Agriocnemis* Selys

Distribution : *India* : Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Gujarat, Himachal Pradesh, Jammu, Karnataka, Kashmir, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nicobar, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Afghanistan, Angola, Australia, Bangladesh, Botswana, Burma, Cameroon, Central African Republic, China, Congo, Coted' ivoire, Djibouti, Egypt, Ethiopea, Fiji, Gabon, Hongkong, Indonesia, Israel, Japan, Kampuchea, Kenya, Liberia, Libya, Madagascar, Malawi, Malayasia, Mali, Mauritius, Mozambique, Namibia, Nepal, New Caledonia, Pakistan, Papua New Guinea, Philippines, Reunion, Rwanda, Samoa, Senegal, Seychelles, Sierra Leone, Singapora, Solomon Islands, South Africa, Sri lanka, Sudan, Swaziland; Zambia.

61. *Agriocnemis clauseni* Fraser

Distribution : *India* : (a) *Meghalaya* : Bangsi, Barapani, Jowai, Mawpat, Mawryngkreng, Nongpoh, Shllong, Songsak, Thadlaskein, Umsning, Umthan, Wageasi (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Assam, Bengal (Fraser 1933c).

Outside India : Bangladesh, Burma, Nepal, Thailand (Tsuda 1991).

62. *Agriocnemis lacteola* Selys

Distribution : *India* : (a) *Meghalaya* : Burnihat, Puksora, Ratachera, Satmowdon, Sonapurdi

(Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Assam (Lahiri 1979); Arunachal Pradesh (Lahiri 1977a); Bengal (Selys 1877); Dejoo, Dibrugarh, North Lakhimpur, N. E. Assam (Laidlaw 1914); Hasimara, Jalpaiguri, Margharita Nowgong (Fraser 1933c); Purnea of Bihar (Laidlaw 1919); Sikkim (Fraser 1933c).

Outside India : Bangladesh (Tsuda 1991); China (Klots 1947; Needham 1930); Hongkong, Nepal (Tsuda 1991); Thailand (Asahina 1982).

63. *Argiocnemis pygmaea pygmaea* (Rambur)

Distribution : India : (a) *Meghalaya* : Balfagram, Burnihat, Ratachara, Shillong, Sonapahar, Weilo (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Arunachal Pradesh, Assam (Lahiri 1979); Barkuda Island (Fraser & Dover 1922); Bihar (Prasad & Varshney 1988), Calcutta (Selys 1891); Manipur (Lahiri 1977b); Mizoram (Lahiri 1979); North Lakhimpur (Laidlaw 1914). *Northern India* : Dehra Dun, Lachiwala (Bhasin 1953). *Southern India* : Deccan (Fraser 1931). Tamil Nadu (Kumar 1990) Waltair (Mitra 1976). *Western India* : Bolovumpattis, Cochin, Coorg. Kanara, Malabar, Nilgiris, Travancore (Fraser 1931). Nicobar (Hagen 1858).

Outside India : Afghanistan, Africa (Pinhey 1974b) Australia, Bangladesh (Tsuda 1991); Bhama (Selys 1891); Ceylon (Kirby 1893; Selys 1891); China (Klots 1947, Needham 1930, Rowe 1981); Formosa (Needham 1930); Indonesia, Japan (Tsuda 1991); Java (Hagen 1858); Kampuchea (Tsuda 1991); Malayasia, Nepal (Tsuda 1991); Pakistan (Khaliq & Yousuf 1992); Palon (Selys 1891), Papua New Guinea (Tsuda 1991); Philippines (Kirby 1893); Reinbode (Hagen 1858); Seychelles Island (Blackman and Pinhey 1967); Singapore (Brauer 1864); Sydney, New South Wales (Ris 1912); Taiwan (Tsuda 1991); Thailand (Kiauta & Kiauta 1983b).

Genus : *Argiocnemis* Selys

Distribution : India : Arunachal Pradesh, Assam, Meghalaya, West Bengal.

Outside India : Australia, Bangladesh, Borneo, Burma, Celebes, Malayasia, Papua New Guinea, Philippines, Thailand, Vietnam.

64. *Argiocnemis rubescens rubeola* Selys

Argiocnemis obscura, Lahiri, 1987, *Rec. zool. Surv. India, Occ. pap.* 99 : 111.

Argiocnemis rubescens rubeola, Davies & Tobin, 1984, *Dragonflies of the World* 1:51; Tsuda, 1991, *A distributional list of World odonata.* 1991, P. 25.

Distribution : India (a) *Meghalaya* : Chitmaring beel, Nongpoh (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Assam, Bengal (Fraser 1933c); Dejoo, North Lakhimpur (Laidlaw 1914).

Outside India : Bangladesh, Burma, Indonesia, Malayasia (Tsuda 1991).

Suborder : ANISOPTERA

Family : GOMPHIDAE

Distribution : Both Old and New World.

Genus : *Anisogomphus* Seys*Distribution : India : Assam, Meghalaya, Uttar Pradesh, West Bengal.**Outside India : Bangladesh, China, Japan, Korea, Nepal, Pakistan, Russia, Sri Lanka, Taiwan.*65. *Anisogomphus caudalis* Fraser*Distribution : India : Meghalaya : Shillong (Fraser 1934a).*66. *Anisogomphus orites* Laidlaw*Distribution : India : (a) Meghalaya : Shillong (Fraser 1934b). (b) Outside Meghalaya Easten India : North Bengal, Sikkim (Fraser 1934a).*Genus : *Burmagomphus* Williamson*Distribution : India : Karnataka, Kerala, Maharashtra, Maharastra, Meghalaya, West Bengal.**Outside India : Burma, China, Indonesia, Laos, Malaysia, Thailand.*67. *Bumagomphus? vermicularis* (Martin)*Distribution : India : Ranikor, Sumer, Umran (Lahiri 1987). Late Dr. Lieftnick identified the female specimens collected be Lahiri as female of B. vermicularis but did not agree in case of male specimens.*Genus : *Davidius* Selys*Distribution : India : Assam, Meghalaya, West Bengal.**Outside India : Bhutan, China, Japan, Korea, Nepal, Thailand.*68. *Davidius mallyori* Fraser*Distribution : India : Meghalaya : Khasi Hills, Latlyngkot (Fraser 1934a)>*Genus : *Dubitogomphus* Fraser*Distribution : India : Meghalaya*69. *Dubitogomphus bidetatus* (Fraser)*Distribution : India : Meghalaya : Shillong (Fraser 1934a)*Genus : *Asiagomphus* Asahina*Distribution : India : Meghalaya, Tamil Nadu, West Bengal.**Outside India : Burma, China, Hongkong, Japan, Korea, Russia, Taiwan.*70. *Asiagomphus personatus* (Selys)*Distribution : India : Meghalaya : Khasi Hills. Shillong (Fraser 1934a).**Outside India : Burma (Fraser 1934a).*

Genus : *Heliogomphus* Laidlaw

Distribution : *India* : Karnataka, Meghalaya, Tamil Nadu.,

Outside India : Buram, China, Hongkong, Indonesia, Malayasia, Philippienes, Sri Lanka, Taiwan, Tailand, Vietnam.

71. *Heliogomphus selysi* (Fraser)

Distribution : *India* : Meghalalaya : Garo Hills, Tura, Shillong (Fraser 1934a)

Outside India : Burma (Fraser 1934a).

72. *Heliogomphus spirillus* (Fraser)

Distribution : *India* : Meghalaya Garo Hills, Khasi Hills (Fraser 1934a)

Genus : *Megalogomphus* Campoin

Distribution : *India* : Assam, Karantaka, Kerala, Meghalaya, Sikkim, Tamil Nadu, West Bengal.

Outside India : Bangladesh, China, Indonesia, Malayasia, Sri Lanka, Thailand, Vietnam.

73. *Megalogomphus bicornuatus* (Fraser)

Distribution : *India* : Meghalaya : Shillong (Fraser 1934a,b).

Genus *Merogomphus* Matrin

Distribution : *India* : Karnataka, Kerala, Meghalaya, Tamil Nadu, West Bengal.

74. *Merogomphus martini* (Fraser)

Distribution : *India* : (a) *Meghalaya* : Barapani, Mawryngkreng, Thadlaskein, Umrans (Lahiri 1987). Shillong (Fraser 1934a). (b) *Outside Meghalaya* : *Eastern India* : Hasimara, Duars of Bengal (Fraser 1934a).

Outside India : Bangladesh (Tsuda 1991)

Genus : *Nihonogomphus* Oguma

Distribution : *India* : Meghalaya

Outside India : Burma, China, Japan, Korea, Russia.

75. *Nihonogomphus indicus* Lahiri

Distribution : *India* : Meghalaya : Rongrengiri (Lahiri 1987).

Genus : *Onychogomphus* Selys

Distribution : *India* : Assam, Bihar, Karnataka , Kerala, Uttar Pradesh, West Bengal.

Outside India : Albania, Algeria, Afghanistan, Angola Austria, Belgium Burgaria, Burma,

Cameroon, China, Congo, Czechoslovakia, Denmark, Finland, France, Germany, Greece, Hungary, Hongkong, Indonesia, Iran, Iraq, Italy, Israel, Japan, Kenya, Laos, Lebanon, Luxembourg, Madagascar, Malaysia, Morocco, Mozambique, Netherlands, Norway, Poland, Portugal, Romania, South Africa, Spain, Sweden, Switzerland, Syria, Taiwan, Tanzania, Thailand, Tunisia, Turkey, Yugoslavia, Zambia.

76. *Onychogomphus megalayanus* Lahiri

Distribution : India : Meghalaya : Rongrengiri (Lahiri (Lahiri 1987))

77. *Onychogomphus duaricus* Fraser

Onychogomphus Saundersii duaricus, Lahiri, 1987, *Rec.zool. Surv, India occ. pap.* 99:136.

Remark : The figure of anal appendages cited by Lahiri (1987) agrees with the figure of *O. duaricus* cited by Fraser (1934a). The description provided by Lahiri (1987) contains some variations from the typical *duaricus* as well as *saundersi*. It is, therefore, concluded pending further collection of specimens and their studies the specimens from Meghalaya can be considered *O. duaricus* instead of a geographical race of *O. saundersi*.

Distribution : India : (a) Meghalaya : Rongrengiri (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Duars of Bengal (Fraser 1934a).

Outside India : Bangladesh, Burma, Malaysia, Nepal, Thailand (Tsuda 1991).

78. *Onychogomphus maculivertex* selys

Remark : The Later Dr. Lieftinck identified (for Lahiri) a female as *O. maculivertex*; but Lahiri (1987) reported this with reservation since he noted some variations. In the present paper, those variations are considered as individual variations.

Distribution : India : Meghalaya ; Barapani Lake, Khasi Hills. (Lahiri 1987)

Outside India : Fraser (1934a) reported a doubtful specimen from Burma; Davis & Tobin (1985) reported the species from Burma; While Tsuda (1991) recorded it from Burma and Indonesia.

Genus : *Nepogomphus* Fraser

Distribution : India : Meghalaya, Nagaland, West Bengal,

Outside India : Bangladesh, Burma, China, Indonesia, Korea, Malaysia, Nepal, Thailand.

79. *Nepogomphus modestus* (Selys)

Onychogomphus Modestus, Lahiri, 1987, *Rec. Zool, Surv. India, Occ. pap* 99 : 136; Davies & Tobin, 1985, *The Dragonflies of the World* 2 : 44.

Distribution : India : (a) Meghalaya : Shillong (Fraser 1934a); Barapani, Umran (Lahiri 1987) Outside Meghalaya (b) Eastern India : Hasimara, Duars of Bengal, Naga Hills (Fraser 1934a).

Genus : *Paragomphus* Cowley

Distribution : India : Andhra Pradesh, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Sikkim, Tamil Nadu, Uttar Pradesh.

Outside India : Afghanistan, Algeria, Bangladesh Botswana, Burma, Cameroon, Central Africa Republic, China, Congo, Cote d'Ivoire, Egypt, Equatorial Guinea, Ethiopia, France, Gabon, Indonesia, Iran, Italy, Kenya, Laos, Liberia, Madagascar, Malawi, Malayasia, Morocco, Mozambique, Namibia, Philippines, Portugal, Saudi Arabia, Somalia, South Africa, Spain, Swaziland, Syria, Tanzania, Thailand, Tunisia, Turkey, Yeman, Zambia, Zaire, Zimbabwe.

80. *Paragomphus echinoccipitalis* (Fraser)

Distribution : India : Meghalaya : Rongrengiri, Songsak (Lahiri 1987).

81. *Paragomphus lineatus* (Selys)

Distribution : India : (a) *Meghalaya* : Charikuty, Rongrengiri, Songsak, Wageasi (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Bengal (Fraser 1934a); Bihar (Fraser 1934b); Chhota Nagpur (Laiblaw 1922); Sikkim (Prasad & Ghosh 1984b); *Southern India* : Trichinapally (Fraser 1934a) Tamil Nadu (Kumar 1992); Deccan (Fraser 1931). *Western India* : Bangalore (Fraser 1934a); Bolovumpattis, Coorg, Kanara, Malabar, Nilgiris (Fraser 1931); Poona (Fraser 1919a, 1924c, 1934a, Laidlaw 1922). *Central India* : Nagpur (Laidlaw 1922); *Northern India* : Dehra Dun (Bhasin 1953); Kangra, Nainital (Kumar & Prasad 1981).

Outside India : Afghanistan, Bangladesh (Tsuda 1991); Burma (Bhasin 1953); Ceylon (Laidlaw 1922); Iran (Tsuda 1991); Nepal (Kiauta 1974; Williamson 1907) Syria (Tsuda 1991); Turkey (Schneider 1985).

Genus : *Perissogomphus* Laidlaw

Distribution : India : Assam, Meghalaya, West Bengal.

Outside India : Nepal.

82: *Perissogomphus stevensi* Laidlaw

Distribution : India : (a) *Maghalaya* : Shillong (Lahiri 1987). (b) *Outside Meghalaya* *Eastern India* : Darjeeling, Gopaldhara (Fraser 1926; Laidlaw 1922).

Outside India : Nepal (Tsuda 1991).

Genus : *Stylogomphus* Fraser

Distribution : India : Meghalaya, West Bengal.

Outside India : Bangladesh, China, Canada, Japan, Nepal, Ryuku, Taiwan, United States of America.

83. *Stylogomphus inglisi* Fraser

Distribution : India : (a) *Meghalaya* : Shillong (Lahiri 1987). (b) *Outside Meghalaya*

: *Eastern India* : Teesta River, Darjeeling district, West Bengal (Fraser 1922d, 1925a, 1934a; Kimmiss 1966).

Outside India : Bangladesh, Nepal (Tsuda 1991).

Genus : *Phaenandrogomphus* Lieftinck

Distribution : *India* : Meghalaya

Outside India : Malaysia, Thailand, Vietnam.

84. *Phaenandrogomphus aureus* (Laidlaw)

Onychogomphus aureus, Lahiri, 1987, *Rec. zool. Surv. India, occ. pap.* 99 : 132.

Distribution : *India* : Meghalaya : Tura, Garo Hills (Fraser 1934a; Laidlaw 1922); Songsak (Lahiri 1987).

Remark : Justification given by Lahiri (1987) to put *aureus* under the genus *Onychogomphus* following Fraser (1934a) seems to be superficial. Hence Lieftinck (1964) has been followed.

Family : AESHNIDAE

Distribution : Old and New Worlds.

Genus : *Oligoaeschna* Selys

Distribution : *India* : Meghalaya, Sikkim, West Bengal.

Outside India : Bangladesh, Brunei, China, Indonesia, Japan, Malaysia, Philippines, Singapore, Taiwan, Thailand.

85. *Oligoaeschna khasiana* Lieftinck

Distribution : *India* : Meghalaya : Khasi Hills (Lieftinck 1968).

86. *Oligoaeschna decorata* Lieftinck

Distribution : *India* : Meghalaya : Khasi Hills (Lieftinck 1968)

87. *Oligoaeschna martini* (Laidlaw)

Distribution : *India* : (a) Meghalaya : Shillong (Fraser 1936). (b) *Outside Meghalaya* : *Eastern India* : Darjeeling (Fraser 1922b; Laidlaw 1921); Sikkim (Lieftinck 1968).

Outside India : Bangladesh (Tsuda 1991).

Genus : *Periaeschna* Martin

Distribution : *India* : Assam, Meghalaya, Sikkim, West Bengal. *Outside India* : Bangladesh, China, Malaysia, Nepal, Taiwan, Thailand, Vietnam.

88. *Periaeschna flinti assamensis* Asahina

Distribution : *India* : Meghalaya : Khasi Hills (Asahina 1981)

89. *Periaeschna nocturnalis* Fraser

Distribution : India : Meghalaya : Shillong (Fraser 1936). Outside India : Thailand (Tsuda 1991).

90. *Periaeschna magdalena* Martin

Distribution : India : (a) Meghalaya : Garo Hills (Fraser 1936). (b) Outside Meghalaya : Eastern India : Assam, Bengal, Sikkim (Fraser 1936).

Outside India : Bangladesh (Tsuda 1991); Burma (Fraser 1936; Martin 1909); China (Tsuda 1991); Taiwan (Lieftinck et al. 1984); Vietnam (Tsuda 1991).

Genus : *Cephalaeschna* Selys

Distribution : India : Himachal Pradesh, Meghalaya, West Bengal.

Outside India : Afghanistan, Burma, China, Nepal, Taiwan.

91. "*Cephalaeschna biguttata* Fraser"

Lahiri (1987) reported a female specimen as *Periaeschna? biguttata* (Fraser), instead of *Cephalaeschna biguttata*. Asahina (1981) reported "This is another enigmatic species, being described with a male specimen but it is difficult to comprehend its real status" Tsuda (1991) is being followed.

Distribution : India : Meghalaya : Rongtham River bank (Lahiri 1987) Shillong (Asahina 1981, Fraser 1936).

Genus *Planaeschna* McLachlan

Distribution : India : Meghalaya.

Outside India : Burma, China, Japan, Taiwan, Thailand.

92. *Planaeschna intersedens* (Martin)

Austroaeschna intersedens, Fraser, 1936, *Fauna Brit. India, Odon.* 3 : 62.

Distribution : India : Meghalaya : Shillong (Lahiri 1987). *Outside India* : Burma, Thailand (Tsuda 1991).

Genus : *Petaliaeschna* Fraser

Distribution : India : Meghalaya, Sikkim. *Outside India* : China.

93. "*Petaliaeschna fletcheri* Fraser"

Distribution : India : (a) Meghalaya : Shillong (Fraser 1927c). (b) Outside Meghalaya Eastern India : Sikkim (Asahina 1981).

Remark : The description of the species is based on imperfect male specimens. Asahina (1981) remarked "The real status of this insect will remain obscure until a new perfect specimen would become available in future"

Genus : *Tetracanthangyna* Selys*Distribution : India : Meghalaya, West Bengal.**Outside India : Bangladesh, Burma, Indonesia, Laos, Malayasia, Philippines, Singapore, Thailand.*94. *Tetracanthangyna waterhousei* McLachlan*Distribution : India : (a) Meghalaya : Barapani (Lahiri 1987). (b) Outside Meghalaya Eastern India : Duars of Bengal. (Fraser 1933a).**Outside India : Bangladesh (Tsuda 1991); Borneo, Burma (Martin 1909a); Hongkong, Laos, Malayasia, Thailand, Vietnam (Tsuda 1991).*Genus : *Aeshna* Fabricius*Distribution : India : Himachal Pradesh, Kashmir, Meghalaya, Sikkim, West Bengal.**Outside India : Afghanistan, Albania, Algeria, Angola, Argentina, Australia, Austria, Bhutan, Belgium, Brazil, Bolivia, Bulgaria, Burma, Canada, Checkoslovakia, China, Chile, Colombia, Costa Rica, Cuba, Denmark, Ecuador, Egypty, Ethiopea, Elsalvador, Finland, France, Gernay, Great Britain, Greece, Guatemala, Haiti, Holland, Hungary, Iran, Israel, Italy, Ireland, Jamaica, Japan, Korea, Lichtenstein, Luxembourg, Malawi, Mexico, Mongolia, Morocco, Mozambique, New Caledonia, New Zeland, Norway, Paraguay, Peru, Poland, Poerto Rico, Romania, Spain, Syria, Sweeden, South, Africa, Tanzania, Tunisia, Turkey, Untied States of America, Uruguay, Vanuatu, Venezuela, Yemen, Yugoslvia, Zaire, Zimbabwe.*95. *Aeshna petalura petalura* Matrin*Distribution : India : (a) Meghalaya : Khasi Hills (matrin 1908). (b) Outside Meghalaya : Eastern India : Darjeeling (Martin 1908; Fraser 1922a); Phulloth (11,500ft) (Fraser 1933a).**Outside India : Bhutan, Nepal (Tsuda 1991).*Genus : *Anax* Leach*Distribution : India : Andhra Pradesh, Arunachal Pradesh, Assam, Karnataka, Kashmir, Kerala, Meghalaya, Maharashtra, Orissa, Punjab, Tamil Nadu, West Bengal.**Outside India : Afghanistan, Algeria, Angola, Argentina, Australia, Austria, Bahamas, Barbados, Bhutan, Belgium, Bolivia, Botswana, Brazil, Burgaria, Burma, Cameroon, Canada, Cayman Island, China, Checkoslovakia, Cape Vade, Colombia, Costa Rica, Cuba, Cyprus, Dominica, Dominican Republic, Egypt, Equatorial Guinea, Ecuador, Ethiopea, France, French Guina, Gabon, Germany, Ghana, Great Britain, Greece, Guam, Guinea, Haiti, Hawaii, Hongkong, Hungary, Iran, Iraq, Italy, Jamaica, Japan, Kenya, Korea, Liberia, Libya, Liechtenstein, Luxembourg, Malawi, Mariana Is., Martinique, Mexico, Mozambique, Palau, Panama, Papua New Guinea, Peru, Philippines, Poland, Portugal, Puerto Rico, Romania, Russia, Saudi Arabia, Sengal, Secyhelles, Sierra, Leone, Somalia, South Africa, Sudan, Surinam, Syria Swaziland, Taiwan, Thailand, Trinidad, and Tobago, Togo, Turkey, United States of America, Uruguay, Zaire, Zabmia, Zimbabwe.*

96. *Anax* Spindet

Distribution : Meghalaya : Shillong close to *A. nigrolineatus* Fraser (Lahiri 1987).

97. *Anax guttatus* (Burmeister)

Distribution : India : (a) Meghalaya : Khasi Hills (Lahiri 1987). (b) *Outside Meghalaya* : Eastern India : Assam (Fraser 1936), Calcutta (Ram *et. al* 1982); Chilka Lake (Fraser 1921); North Lakhimpur (Laidlaw 1914); Waltair (Fraser 1936); Southern India : Annaimalai Hills, Deccan (Fraser 1931); Madras (Fraser 1936) Western India : Bombay (Fraser 1921b); Coorg (Fraser 1931); Glenburi (Bhasin 1953); Malabar (Fraser 1931); Nilgiris (Bhasin 1953); Poona (Fraser 1921b).

Outside India : Africa (Pinhey 1962); Burma (Fraser 1936); Borneo, Ceylon (Laidlaw 1923); Formosa (Needham 1930); Japan (Ikezaki 1971); Malaya Peninsula (Laidlaw 1923); Queensland (Martin 1908); Micronesia (Lieftinck 1962); Siam, Sumatra (Fraser 1936); Seychelles (Blackman & Pinhey 1967).

Genus : *Gynacantha* Rambur

Distribution : India : Arunachal Pradesh, Assam, Karnataka, Kerala, Meghalaya, Sikkim, Tamil Nadu, West Bengal.

Outside India : Angola, Argentina, Australia, Bangladesh, Bahamas, Benin, Bolivia, Botswana, Brazil, Burkina Faso, Cameroon, Cayman Islands, Central Africa, Comoros, Congo, Cote d'ivoire, Cuba, China, Costa Rica, Ecuador, Equatorial Guinea, El Salvador, Fiji, French Guiana, Gabon, Guatemala, Guinea, Guyana, Haiti, Honduras, Hongkong, Indonesia, Japan, Kampuchea, Kenya, Korea, Liberia, Madagascar, Malawi, Malayasia, Mexico, Mauritius, Mozambique, Nepal, New Caledonia, Nicaragua, Nigeria, Panama, Papua new Guinea, Paraguay, Peru, Puerto Rico, Philippines, Samoa, Sierra Leone, Singapore, Somalia, South Africa, Taiwan, Thailand, Tanzania, Tonga, Trinidad and Tobago, United States of America, Venezuela, Vanuatu, Zaire, Zambia.

98. *Gynacantha* sp. indet

Distribution : Meghalaya : Songsak (Lahiri 1987).

99. *Gynacantha bayadera* Selys

Distribution : India : (a) Meghalaya : Rongrengiri (Lahiri 1987). (b) *Outside Meghalaya* : Eastern India : Bengal (Fraser 1936), Sikkim (Fraser 1922e; 1936; Laidlaw 1923; Lieftinck 1948; Selys 1891).

Outside India : Bangladesh (Tsuda 1991); Burma (Fraser 1922c; Martin 1909b); Celebes (Fraser 1936, Laidlaw 1923); China (Needham 1930); New Guinea (Martin 1909b); Nepal, Philippines (Tsuda 1991); Siam (Laidlaw 1923); Singapore (Tsuda 1991); Sundaic Archipelago (Martin 1909b); Taiwan (Lieftinck *et al* 1984).

100. *Gynacantha basiguttata* Selys

Distribution : India : (a) Meghalaya : Songsak (Lahiri & Das 1991).

(b) *Outside Meghalaya* : Arunachal Pradesh (Lahiri & Das 1991); Bengal, Sibsagar (Assam) (Fraser 1936).

Outside India : Bangladesh, Burma, Indonesia, Malayasia, Philippines, Thailand (Tsuda 1991)

101. *Gynacatha khasiaca* McLachlan

Distribution : *India* : (a) *Meghalaya* : Khasi Hills (McLachlan 1896); (b) *Outside Meghalaya* : *Eastern India* : Abor Hills (Laidlaw 1914); Assam (Laidlaw 1923); Bengal (Fraser 1936).

Outside India : Annam (McLachlan 1896b). Bangladesh (Tsuda 1991); Burma (Fraser 1922c); Nepal (Tsuda 1991).

Family : CORDULEGASTERIDAE

Distribution : *India* : Assam, Himachal Pradesh, Karnataka, Kashmir, Kerala, Meghalaya, Punjab, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Albania, Algeria, Austria, Bangladesh, Belgium, Bulgaria, Burma, Canada, China, Costa Rica, Czechoslovakia, El Salvador, France, Germany, Greece, Guatemala, Hungary, Iran, Iraq, Italy, Japan, Korea, Lebanon, Lichtenstein, Luxembourg, Malayasia, Mexico, Morocco, Netherlands, Nepal, Philippines, Portugal, Pakistan, Romania, Russia, Spain, Sweden, Switzerland, Syria, Taiwan, Thailand, Turkey, United States of America, Vietnam.

Genus : *Chlorogomphus* Selys

Distribution : *India* : Assam, Meghalaya, Sikkim, Uttar Pradesh, West Bengal.

Outside India : Burma, China, Indonesia, Japan, Malayasia, Nepal, Philippines, Taiwan, Thailand, Vietnam.

102. *Chlorogomphus atkinsoni* (Selys)

Distribution : *India* : (a) *Meghalaya* : Cherrapunjee, Shillong (Lahiri 1987).

(b) *Outside Meghalaya* : *Eastern India* : Bengal (Laidlaw 1915a, Williamson 1907); Darjeeling (Asahina 1961); Kurseong (Fraser 1923a); Sibsagar (Laidlaw 1915a). *Northern India* : Kumaon (Kumaon (Laidlaw 1915a); Bhowali, Nainital (Bhasin 1955).

Outside India : Nepal (Tsuda 1991)

103. *Chlorogomphus fraseri* St. Quentin

Distribution : *India* : (a) *Meghalaya* : Khasi Hills (Fraser 1936) (b) *Outside Meghalaya* : Kalimpong, Darjeeling district, West Bengal (Fraser 1936).

104. *Chlorogomphus campioni* (Fraser)

Distribution : *India* : (a) *Meghalaya* : Shillong (Fraser 1925b). (b) *Outside Meghalaya* : *Western India* : Western Ghats (Fraser 1936).

Genus : *Anotogaster* Selys

Distribution : *India* : Meghalaya, Punjab, Sikkim, Uttar Pradesh.

Outside India : Bangladesh, Burma, China, Japan, Korea, Nepal, Portugal, Russia, Taiwan, Thailand, Vietnam.

105. *Anotogaster* Sp. indet

Distribution : Meghalaya : Mawpat, Shillong (Lahiri 1987)

Family : CORDULIIDAE

Distribution : *India* : Andhra Pradesh, Assam, Karnataka, Himachal Pradesh, Kerala, Maharashtra, Meghalaya, Tamil Nadu, West Bengal.

Outside India : Both old and New World.

Genus *Hemicordulia* Selys

Distribution : *India* : Arunachal Pradesh, Karnataka, Kerala, Meghalaya, Tamil Nadu, West Bengal.

Outside India : Australia, Burma, French Polynesia, Fiji, Guam, Indonesia, Japan, Madagascar, Malawi, Mariana Is. Mauritius, Mozambique, New Caledonia, Newzealand, Palau, Papua New Guinea, Philippines, Samoa, Seychelles, Solomon Is., South Africa, Sri Lanka, Taiwan, Vanuatu.

106. *Hemicordulia asiatica* Selys

Distribution : *India* : (a) *Meghalaya* : Shillong, Khasi Hills (Fraser 1921); Jowai (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Bengal (Martin 1906); Dejoor, North Lakhimpur (Laidlaw 1914).

Outside India : Burma (Tsuda 1991); Malawi (Pinhey 1966a); Sri Lanka (Tsuda 1991).

Genus : *Somatochlora* Selys

Distribution : *India* : Meghalaya.

Outside India : Austria, Belgium, Bulgaria, Canada, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Iran, Israel, Italy, Japan, Korea, Liechtenstein, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Turkey, United States of America.

107. *Somatochlora daviesi* Lieftinck

Distribution : *India* : *Meghalaya* : Khasi Hills (Lieftinck 1977a).

Genus : *Idionyx* Hagen

Distribution : *India* : Karnataka, Kerala, Meghalaya, Tamil Nadu.

Outside India : Bangladesh, Burma, China, Hongkong, Malaysia, Nepal, Philippines, Singapore, Thailand.

108. *Idonyx imbricata* Fraser

Distribution : India : Meghalaya : Shillong (Fraser 1936).

109. *Idionyx intricata* Fraser

Distribution : India : Meghalaya : Cherrapunjee (Fraser 1936).

Outside India : Burma, Thailand (Tsuda 1991).

Genus : *Macromia* Rambur

Distribution : India : Assam, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya, Tamil Nadu, Uttar Pradesh.

Outside India : Angola, Australia, Bangladesh, Burma, Benin, Botswana, Brunei, Cameroon, Central Africa, China, Congo, Cote d'Ivoire, Egypt, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Guinea-Bissau, Indonesia, Japan, Kenya, Korea, Laos, Liberia, Malaysia, Mali, Malawi, Mexico, Mozambique, Namibia, Nigeria, Nepal, Philippines, Portugal, Senegal, Seychelles, Sierra Leone, Somalia, Sudan, Tanzania, Taiwan, Thailand, United States of America, Vietnam, Zaire, Zambia.

110. *Macromia moorei moorei* Selys

Distribution : India : (a) Meghalaya : Mawphlong, Myllem (Lahiri 1987); Shillong (Fraser 1921b). (b) Outside Meghalaya : Eastern India : Bengal (Martin 1906); Northern India : Almora, Bhatnagar, Dehra Dun (Bhasin 1953); Naini Tal (Sahni 1964); Uttar Pradesh (Kumar 1982); Southern India : Deccan (Fraser 1921a)

Outside India : Burma, Tonkin (Martin 1906); Nepal (St. Quentin 1970).

Family : LIBELLULIDAE

Distribution : Old and New World.

Genus : *Tetrathemis* Brauer

(Lahiri (1987) put Selys as author wrongly)

Distribution : India : Karnataka, Kerala, Meghalaya, Tamil Nadu, West Bengal.

Outside India : Angola, Australia, Burma, Cameroon, Central Africa, Comoros, Congo, Cote d'Ivoire, Gabon, Ghana, Guinea, Indonesia, Liberia, Madagascar, Malaysia, Malawi, Mozambique, New Guinea, Nigeria, Philippines, Somalia, Tanzania, Thailand, Zambia, Zimbabwe.

111. *Tetrathemis platyptera* Selys

Distribution : India : (a) Meghalaya : Nongpoh, Songsak, Umran (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Bengal (Ris 1909a). Western India : Anaimalai, Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgiris (Fraser 1931).

Outside India : Burma (Fraser 1936); China, Indonesia, Malaysia Thailand (Tsuda 1991).

Genus : *Lyriothemis* Brauer

Distribution : India : Assam, Meghalaya, Sikkim, West Bengal.

Outside India : Bangladesh, Borneo, Burma, Celebes, China, Hongkong, Indonesia, Japan, Korea, Laos, Malayasia, Nepal, New Guinea, Pacific Islands, Philippines, Russia, Ryuku, Taiwan, Thailand, Tibet, Vietnam.

112. *Lyriothemis tricolor* Ris

Distribution : India : (a) Meghalaya : Shilong (Fraser 1936), (b) Outside Meghalaya : Eastern India : Rajabhatkhawa, West Bengal (Fraser 1936).

Outside India : Bangladesh, Burma, Japan, Taiwan (Tsuda 1991).

113. *Lyriothemis bivittata* (Rambur)

*Remark : Based on the Notes by Lahiri (1987), it is conjectured that Late Dr. Lieftinck did not like to confirm its status because of its sex. Since the specimen does not differ from the description of *Lyriothemis bivittata* ♀ it is hereby treated as *Lyriothemis bivittata* (Rambur).*

Distribution : India : (a) Meghalaya : Rongrengiri (Lahiri 1987). (b) Outside Meghalaya : Eastern India Sikkim (Prasad & Ghosh 1984b); Darjeeling (West Bengal); Nowgong (Assam) (Fraser 1936).

Genus : *Orthetrum* Newman

Distribution : India : Andhra Pradesh Arunachal Pradesh, Andaman Is, Assam, Bihar, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Manipur, Maharastra, Meghalaya, Mizoram, Nagaland, Nicobar Is. Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, West Bengal.

Outside India : Afghanistan, Albania, Algeria, Angola, Australia, Austria, Bangladesh, Belgium, Benin, Botswana, Bulgaria, Burkina, Faso, Burma, Cameroon, Chad, Czechoslovakia, China, Congo, Cote d'Ivoire, Cyprus, Denmark, Egypt, Ethiopia, Equatorial Guinea, Finland, France, Gabon, Germany, Ghana, Great Britain, Greece, Guinea-Bissau, Hongkong, Hungary, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kampuchea, Kenya, Korea, Laos, Lebanon, Lesotho, Liberia, Libya, Liechtenstein, Luxembourg, Madagascar, Malawi, Malayasia, Mauritius, Mongolia, Morocco, Namibia, Nepal, Netherlands, Niger, Nigeria, Norway, Oman, Pakistan, Papua New Guinea, Philippines, Poland, Portugal, Russia, Romania, Sahara, Samoa, Senegal, Singapore, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Sweden, Switzerland, Taiwan, Tanzania, Thailand, Togo, Tunisia, Turkey, Vanuatu, Vietnam, Zaire, Zambia, Zimbabwe.

114. *Orthetrum glaucum* (Brauer)

Distribution : India : (a) Meghalaya : Anogiri, Balat, Barapani, Burnihat, Kobal, Mawblong, Mawpat, Mawsynram, Nonghylian, Pynursla, Rainkor, Remgiri, Rongrengiri, Rongtham river bank, Sahangphung, Shillong, Sonapahar, Sonapurdi, Umran, Umroi, Umsning, (Lahiri 1987).

Dawki Road (Prasad & Ghosh 1984a) (b) *Outside Meghalaya : Eastern India* : Arunachal Pradesh (Lahiri 1979) Calcutta (Dasgupta 1957); Darjeeling (Ris 1909b; St. Quentin 1936); Manipur, (Lahiri 1977b); Mizoram (Lahiri 1979); Orissa (Mitra 1994); Sikkim (Selys 1891). *Southern India* : Deccan (Fraser 1931), *Northern India* : Almora (Bhasin 1953); Chakrata (Singh & Baijal 1954); Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Nalapani, Thal (Bhasin 1953); Uttar Pradesh (Kumar 1982). *Western India* : Anaimalai, Coorg, Kanara, Malabar, Nilgiris, Travancore (Fraser 1931); Poona (Fraser 1924b); West Coast (Fraser 1936)

Outside India : Burma (Laidlaw 1914); Borneo, Ceylon, China (Ris 1909b); Hongkong, Indonesia, Japan (Tsuda 1991), Java, Lombok, Moluquas (Ris 1909b); Malayasia (Brooks 1981); Nepal (Asahina 1955; St. Quentin 1970); Philippines (Fraser 1936); Taiwan (Lieftinck *et.al.* 1984); Tennasserim (Lieftinck 1948; Ris 1909b; Selys 1981) Thailand (Tityavan 1979); Tougoo (Selys 1891); Vietnam (Tsuda 1991).

115. *Orthetrum Japonicum internum* McLachlan

Distribution : India : (a) *Meghalaya* : Barapani, Cherrapunjee, Mawphlong, Shillong, Umsning (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Kurseong (Fraser 1918; Ris 1909b); Nagaland (Bhasin 1953. Assam (Mitra 1994). *Northern India* : Chakrata (Bhasin 1953); Doon Valley (Singh & Prasad 1976b); Kangra (Prasad 1976); Kashmir (Fraser 1918; Mani *et. al* 1955; Ris 1909b); Kulu (Singh *et. al* 1955).

Outside India : Bangladesh (Bhasin 1953); Burma (Ris 1909b); China (Chao 1981; McLachlan 1996a; Ris 1909b); Japan, Korea (Tsuda 1991); Nepal (Kiauta 1975; St. Quentin 1970); Pakistan, Taiwan, Thailand (Tsuda 1991); Tibet, (Ris 1909b); To-Chain Lu (Kimmins 1968) Vietnam (Tsuda 1991).

116. *Orthetrum luzonicum* (Brauer)

Distribution : India : (a) *Meghalaya* : Barapani, Mawphlong, Mawayngkren, Shillong, Songsok, Thadlaskein, Umsning Wageasi (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Assam, Bengal; Coimbatore (Fraser 1936); Lakhimpur, Nagaland (Bhasin 1953); Sibsagar (Ris 1909b). Orissa (Mitra 1994). *Northern India* : Chakrata (Bhasin 1953); Kangra (Prasad 1976); Kulu, Manali (Singh *et. al* 1955); Uttar Pradesh (Kumar 1982). *Western India* : Anaimalai, Coorg, Malabar, Nilgiris (Fraser 1931); Needungyan, Nilambur (Bhasin 1953) : Palni; Travancore (Fraser 1931); Deesa (Ris 1909b), *Southern India* : Deccan (Fraser 1931).

Outside India : Afghanistan, Bangladesh (Tsuda 1991); Burma (Fraser 1936); Ceylon (Ris 1909b); China, Hongkong, Indonesia, Japan (Tsuda 1991); Luzon, "Malayasia" (Ris 1909b); Malayasia (Tsuda 1991) Nepal (st. Quentin 1970); Sumatra, Sumba (Ris 1909); Taiwan (Tsuda 1991); Tennasserim (Lieftinck 1948); Thailand (Tsuda 1991); Tonkin (Ris 1909); Vietnam (Tsuda 1991).

117. *Orthetrum sabina sabina* (Drury)

Distribution : India : (a) *Meghalaya* : Anogiri, Balfagram, Barapani, Burnihat, Charikuty, Cherrapunjee, Chitmaring, Damra, Dawki, Carampani, Jowai, Mawblong, Mawphlong, Myllien,

Nonghyllan, Nongpoh, Puksoarak, Pynursla, Ranikor, Shangphung, Shella, Shillong, Sonapurdi, Umran (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Abor Hills (Laidlaw 1914); Arunachal Pradesh, Assam (Lahiri 1979); Barkuda Island, (Fraser & Dover 1922); Buxa (Bhasin 1953), Calcutta (Mitra 1983); Dhanbad (Bihar) (Kumar & Prasad 1977) Manipur (Lahiri 1977b); Pusa (Bihar) Sibsagar (Bhasin 1953), Tamil Nadu (Kumar & Khatri 1985), Tripura (Lahiri 1977a, Mitra & Sen 1975). Waltair (Mitra 1976). Mizoram, Nagaland (Mitra 1994) *Northern India* : Doonvalley (Singh & Prasad 1976b); Gorakhpur (Bhasin 1953); Kangra (Prasad 1976); Ramgarh, Sahadra (Bhasin 1953). *Central India* : Gwalior (Bajal & Agarwal 1955); Nagpur (Mitra 1988). *Southern India* : Deccan (Fraser 1931). *Western India* : Annaimalai, Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgiris, Planis (Fraser 1931); Silent Valley (Rao & Lahiri 1983); Bombay (Fraser 1924a), *Andaman Island* (Fraser 1924a). Great Nicobar Is. (Mitra 1995).

Outside India : Africa, Asia Minor (Fraser 1924a), Bharno (Selys 1891); Burma (Lefitinck 1948); Chittagonj (Chowdhury & Akhteruzzaman 1981). Ceylon (Fraser 1918); China (Klots 1947; Needham 1930; Ris 1909); Celebes, Ceram (Ris 1909); Formosa (Ris 1909); Iran (Blom 1982); Java (Ris 1909); Mesopotamia (Fraser 1924a); Micronesia (Lefitinck 1962); (Asahina 1955; Kiauta 1975; St. Quentin 1970); New Guinea, Oceania (Ris 1909); Philippines (Fraser 1924; Kiauta & Kiauta 1983a); Polynesia (Selys 1891); Queensland, Sydney (Ris 1909); Singapore (Kiauta & Kiauta 1982b; Ris 1909); Somaliland (Carfi 1974); Sumatra (Ris 1909b); Syria (Selys 1891); Yunnan (Moore 1878)

118. *Orthetrum pruinosum neglectum* (Rambur)

Distribution : India : (a) *Meghalaya* : Anogiri, Barapani, Burnihat, Cherrapunjee, Darugiri, Jowai, Lailad, Nongpoh, Puksoara, Rongrengiri, Shillong, Songsak, Umran, Umaroi, Umsning, Umthan, Umtynger, Wageasi (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Arunachal Pradesh, Assam, (Lahiri 1979); Barkuda Island (Fraser & Dover 1922); Buxa (Bhasin 1953); Bhubaneswar (Dasgupta 1957); Darjeeling (Ris 1909b); Manipur, Mizoram (Lahiri 1979); Nagland (Bhasin 1953), Arunachal Pradesh (Mitra 1994), Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Kashmir (Ris 1909); Kulu, Manali (Singh *et al* 1955); Rajasthan (Prasad & Thakur 1981). *Central India* : Betul, Chhindwara (Mitra 1988); Gwalior (Bajal & Agarwal 1955). *Southern India* : Deccan (Fraser 1931). *Western India* : Annaimalai, Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgiris, Palnis, Travancore (Fraser 1931); Silent Valley (Rao & Lahiri 1983). *Andaman Islands* (Fraser 1932a). *South India* : Madras (Ris 1909)

Outside India : Afghanistan (Tsuda 1991); Annam (Ris 1909) Bangladesh (Tsuda 1991), Hongkong (Ris 1909), Java (Selys 1891); Japan, Laos (Tsuda 1991); Nepal (Kiauta & Kiauta 1982; St. Quentin 1970); Philippines (Selys 1891); Singapore, Taiwan, Thailand, Vietnam (Tsuda 1991); Yunnan (Ris 1909).

119. *Orthetrum triangulare triangulare* (Selys)

Distribution : India : (a) *Meghalaya* : Barapani, Charikuty, Damra, Lailad, Mawiong, Mawphlong, Mowroh, Nongpoh, Remgiri, Rongrengiri, Shillong, Umsning (Lahiri 1987); Mawsami to Shella (Prasad & Ghosh 1984a). (b) *Outside Meghalaya : Eastern India* : Arunachal Pradesh, Assam (Lahiri 1979); Buxa (Bhasin 1953); Darjeeling, Sikim (Ris 1909); Sibsagar (Bhasin

1953); Manipur (Mitra 1994). *Northern India* : Almora, Arakot, Bhatrong (Bhasin 1953); Chakrata (Singh & Baijal 1954); Dehra Dun, Kemptifalls, Nalapani, Saiya (Bhasin 1953). *Southern India* : Deccan (Fraser 1931). *Western India* : Annaimalai Bolovumpattis (Fraser 1931). Conoor, Coorg (Fraser 1924b); Kanara, Malabar (Fraser 1931); Nilgiris, Oocty (Fraser 1924b). Planis, Travancore (Fraser 1931). *Southern India* : Tamil Nadu (Kumar 1990). *Outside India* : Afghanistan (Tsuda 1991); Burma, Ceylon, (Fraser 1918; Ris 1909); China, Laos (Tsuda 1991); Leito (Selys 1891); Nepal (Kiauta 1974); Tennasserim (Lieftinck 1948); Thailand, Vietnam (Tsuda 1991).

Genus : *Potamarcha* Karsch

Distribution : *India* : Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Orissa, Tamilnadu, Uttarpradesh, West Bengal.

Outside India : Australia, Bangladesh, Burma, Indonesia, Malayasia, Nepal, Philippines, Sri Lanka, Taiwan, Thailand.

120. *Potamarcha congener* (Rambur)

Distribution : *India* : (a) *Meghalaya* : Balfagram, Nongpoh, Rongrengiri, Umsning (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Balasore (Dasgupta 1957); Barkuda Is. (Fraser & Dover 1922) Buxa (Bhasin 1953), Calcutta (Ram *et.al* 1982); Chilka Lake (Laidlaw 1915b) Darjeeling (St. Quentin 1936); Nagaland, Singhbhum (Bhasin 1953); *Northern India* : Banki, Gorakhpur (Bhasin 1953). *Southern India* : Deccan (Fraser 1931) Tamil Nadu (Kumar 1990). *Central India* : Chhindwara (Mitra 1988). *Western India* : Anaimalai, Cochin (Fraser 1931); Coorg (Fraser 1924b); Kanara (Fraser 1931); Khandala (Fraser 1924b); Malabar (Fraser 1931); Nilgiris, Poona (Fraser 1924b).

Outside India : Australia, Bangladesh, Burma, China, Hongkong, Indonesia, Laos, Malayasia, Nepal, Philippines, Sri Lanka, Taiwan, Thailand, Vietnam (Tsuda 1991).

Genus : *Palpopleura* (Rambur)

Distribution : *India* : Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Meghalaya, Mizoram Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal.

Outside India : Afghanistan, Angola, Bangladesh, Benin, Botswana, Burkina Faso, Burma, China, Cote d'Ivoire, Ethiopia, Gabon, Guinea, Hongkong, Kenya, Laos, Liberia, Malawi, Madagascar, Mali, Mozambique, Namibia, Niger, Nigeria, Nepal, Sierra Leone, Senegal, Somalia, South Africa, Sudan, Sri Lanka, Swaziland, Tanzania, Thailand, Togo, Vietnam, Zaire,

121. *Palpopleura sexmaculata sexmaculata* (Fabr.)

Distribution : *India* : (a) *Meghalaya* : Barapani, Darugiri, Degrangiri, Dympeh, Jakrim, Jowai, Mawpat, Mawphlong, Mawlyndep, Mawryngkrend, Nongchalma, Pynursla, Ranikor, Rongrengiri, Shillong, Sonapahar, Songsok, Sumer, Thadlaskein, Tebangiri, Umroi, Umsning, Umthan, Umtynger, Wageasi, Weiloi (Lahiri 1987). Khasi Hills on Samer to Kyrdemkulai Road (Prasad & Ghosh 1948a). (b) *Outside Meghalaya* : *Eastern India* : Assam, Bengal (Fraser 1936); Darjeeling (Ris 1910); Lakhimpur (North) (Laidlaw 1914); Manipur, Mizoram (Lahiri 1979); Pusa (Fraser 1919d); Sikkim (Ris 1910); Singhbhum (Bhasin 1953). *Southern*

India : Tamil Nadu (Kumar 1990). **Northern India** : Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976a); Mothronwala (Bhasin 1953). **Western India** : Annaimalai, Cochin, Coorg (Fraser 1931); Kodaikanal, Nilgiris, Palni, Wynaad (Fraser 1924b); Malabar, Travancore (Fraser 1931).

Outside India : Afghanistan (Tsuda 1991); Annam (Ris 1910). Burma (Laidlaw 1914); Ceylon (Fraser 1919d); China (Chao 1981; Needham 1930); Hongkong (Tsuda 1991). Indochina (Fraser 1936); Laos (Tsuda 1991); Leito, Montscarin (Selys 1891); Nepal (Asahina 1955; Mahato 1988; St. Quentin 1970); Puepoli (Selys 1891); Yunnan (Moore 1878).

Genus : *Brachydiplax* Brauer

Distribution : **India** : Andhra Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Australia, Bangladesh, Burma, China, Hongkong, Indonesia, Japan, Malayasia, New Guinea, Nepal, Philippines, Singapore, Solomon Islands, Sri Lanka, Thailand, Vietnam.

122. *Brachydiplax sobrina* (Rambur)

Distribution : **India** : (a) **Meghalaya** : Rongrengiri (Lahiri 1987). (b) **Outside Meghalaya** : **Eastern India** : Andhra Pradesh (Joshph & Satyarani 1988) : Barkuda Island (Fraser & Dover 1922); Chilka Lake (Laidlaw 1915d); Dejoo, North Lakhimpur (Laidlaw 1914). **Northern India** : Dehra Dun, Kangra, Hoshiarpur (Singh & Prasad 1974); Rajasthan (Prasad & Thakur 1981). **Southern India** : Deccan (Fraser 1931). **Western India** : Bombay (Fraser 1919d); Coorg, Malabar, Nilgiris (Fraser 1931).

Outside India : Bangladesh (Sylhet), Burma (Ris 1910); Bhamo (Selys 1891); Ceylon (Lieftinck 1971); Nepal (Kiauta & Kiauta 1982a; St. Quentin 1970); Palon, Teinzo, Toungoo (Selys 1891); Thailand (Lieftinck 1971).

Genus : *Nannophya* (Rambur)

Distribution : **India** : Arunachal Pradesh, Meghalaya,

Outside India : Australia, Burma, China, Indonesia, Japan, Korea, Malayasia, Nepal, Papua New Guinea, Philippines, Singapore, Solomon Is., Taiwan, Thailand.

123. *Nannophya pygmaea* Rambur

Distribution : **India** : (a) **Meghalaya** : Barapani, Naya Bungalow (Lahiri 1987). (b) **Outside Meghalaya** : **Eastern India** : North Lakhimpur (Laidlaw 1914; Fraser 1921a).

Outside India : Australia, Burma, China, Indonesia, Japan, Korea, Malayasia, Nepal, Papua New Guinea, Philippines, Singapore, Solomon Is., Taiwan, Thailand. (Tsuda 1991)

Genus : *Acisoma* Rambur

Distribution : **India** : Andhra Pradesh, Arunachal Pradesh, Assam, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Mainpur, Meghalaya, Mizoram, Nicobar Is. Rajasthan Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Afghanistan, Algeria, Angola, Bangladesh, Botswana, Burma, Cameroon, Celebes, China, Central Africa, Congo, Cote'd ivoire, Egypt, Guinea, Hongkong, Indonesia, Japan, Kenya, Liberia, Libya, Madagascar, Malayasia, Mali, Mozambique, Nepal, Nigeria, Philippines, Senegal, Singapore, Sierra Leone, Sri Lanka, South Africa, Taiwan, Tanzania, Thailand, Tunisia, Zaire, Zambia, Zimbabwe.

124. *Acisoma Panoroides panoroides* Rambur

Distribution : *India* : (a) *Meghalaya* : Chitmaring beel, Rongrengiri (Lahiri 1987); (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh. (Joseph & Satyarani 1988); Arunachal Pradesh, Assam (Lahiri 1979); Calcutta (Dasgupta 1957; Mitra 1983); Manipur (Lahiri 1977b); Sibsagar (Bhasin 1953); Mizoram (Mitra 1994) *Northern India* : Doon valley (Singh & Prasad 1976); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Rajasthan (Prasad & Thakur 1981). *Central India* : Gwalior (Baijal & Agarwal 1955). *Western India* : Bombay (Fraser 1924a); Coorg, Kanara, Malabar (Fraser 1931); Poona (Fraser 1924a). *Southern India* : Tamil Nadu (Kumar 1990). Great Nicobar Is. (Mitra 1995).

Outside India : Bangladesh (Sylhet) (Dasgupta 1957); Burma (Laidlaw 1914); Bhamo-Loo-Choo (Selys 1891); Celebes (Lieftinck 1971); Ceylon (Fraser 1919d); China (Chao 1981; Needham 1930); Japan, Molucca (Lieftinck 1971); Nepal (Kiauta 1975; Mahato 1988; St. Quentin 1970); Palon (Selys 1891); Taiwan (Lieftinck 1971); Thailand (Kiauta & Kiauta 1983); Toungo (Selys 1891).

Genus : *Brachythemis* Brauer

Distribution : *India* : Andhra Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Rajasthan, Uttar Pradesh, Tamil Nadu.

Outside India : Algeria, Angola, Bangladesh, Botswana, Burma, Benin, China, Cote'd ivoire, Egypt, Ethiopia, Equatorial Guinea, Guinea, Hongkong, Indonesia, Iran, Iraq, Israel, Italy, Japan, Laos, Madagascar, Malawi, Mali, Malayasia, Morocco, Mozambique, Namibia, Nepal, Niger, Philippines, Portugal, Senegal, Singapore, Somalia, South Africa, Saudi Arabia, Sri Lanka, Sudan, Syria, Spain, Tanzania, Thailand, Tunisia, Togo, Taiwan, Zaire, Zambia, Zimbabwe.

125. *Brachythemis contaminata* (Fabricius)

Distribution : *India* : (a) *Meghalaya* : Anogiri, Barapani, Chitmaring beel, Jowai, Napakbeel, Rongtham River bank, Rongrengiri, Shillong, Sonapurdi (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Assam (Laidlaw 1914); Barkuda Island (Fraser & Dover 1922); Calcutta (Dasgupta 1957); Gauhati (Fraser 1924a); Saidya (Laidlaw 1914); *Northern India* : Agra (Baijal & Agarwal 1955); Doon valley (Singh & Prasad 1976); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Uttar Pradesh (Ram *et al* 1983). *Central India* : Gwalior (Baijal & Agarwal 1955). *Southern India* : Deccan (Fraser 1931). TamilNadu (Kumar 1990). *Western India* : Cochin, Coorg, Kanara (Fraser 1931); Khandala (Fraser 1924b); Malabar, Nilgiris (Fraser 1931); Poona (Fraser 1924b).

Outside India : Bhamo, Burma (Selys 1891); Ceylon, China (Lieftinck 1971); Chittagong (Chowdhury & Akheruzzaman 1981); Hongkong (Tsuda 1991); Indo-China (Fraser 1919c); Japan, Laos, Malayasia (Tsuda 1991); Nepal (Kiauta 1975); Philippines (Lieftinck 1971); Singapore (Tsuda 1991); Taiwan (Lieftinck 1971); Thailand, Vietnam (Tsuda 1991).

Genus : *Crocothemis* Brauer

Distribution : India : Andhra Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Kashmir, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal.

Outside India : Afghanistan, Algeria, Angola, Australia, Austria, Bangladesh, Benin, Botswana, Belgium, Bulgaria, Burkina Faso, Burma, Cape Verde, Central Africa, Czechoslovakia, China, Cote d'Ivoire, Cyprus, Cameroon, Ethiopia, France, Gabon, Germany, Great Britain, Greece, Guinea, Hongkong, Hungary, Indonesia, Iraq, Iran, Italy, Japan, Jordan, Kenya, Korea, Laos, Lesotho, Liberia, Luxembourg, Madagascar, Malawi, Mozambique, Namibia, Nepal, Netherlands, Niger, Nigeria, Oman, Papua New Guinea, Philippines, Portugal, Rhodesia, Russia, Saudi Arabia, Senegal, Sierra Leone, Singapore, South Africa, Sudan, Swaziland, Switzerland, Solomon Is. Taiwan, Tanzania, Thailand, Togo, Tunisia, United States of America, Yugoslavia, Zaire, Zimbabwe.

126. *Crocothemis servilia servilia* (Drury)

Distribution : India : (a) *Meghalaya* : Burnihat, Barapani, Chitmaring beel, Cherrapunjee, Garampani, Jakrim, Jowai, Lailad, Mawblong, Mawpat, Mawphlong, Mawrapat, Mawroh, Mawsynram, Myllem, Noogkhan, Nongylban, Nongpoh, Pynursla, Ratachara, Remgiri, Rongrengiri, Rongtham river bank, Shillong, Sonapahar, Sonapurdi, Thadlaskein, Umlinghat, Umsmleon, Umsning, Umtham, Umtynger (Lahiri 1987). (b) *Outside Meghalaya : Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Arunachal Pradesh, Assam (Lahiri 1979); Barkuda Island (Fraser & Dover 1922); Bengal (Selys 1891); Kohima (Lahiri *et. al* 1970); Manipur, Mizoram (Lahiri 1979); Pusa, Singbhum (Bhasin 1953). *Central India* : Chindwara (Mitra 1988); Gwalior, Saugor (Bajal & Agarwal 1955). *Northern India* : Chandanpur, Dehra Dun Gonda, Gorakhpur (Bhasin 1953) Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Mothronwala, Ramgarh, Saharanpur (Bhasin 1953). *Western India* : Bombay (Fraser 1924b); Coorg, Kanara (Fraser 1931); Khanadala (Fraser 1924b); Malabar, Nilgiris (1931); Silent Valley (Rao & Lahiri 1983).

Outside India : Afghanistan, Bangladesh (Tsuda 1991), Basara, Burma (Fraser 1919b); China (Needham 1930, Lohman 1981); Florida (Paulson 1978a,b) Formosa (Needham 1930); Iraq (Bhasin 1953); Japan (Selys 1891); Korea, Laos (Tsuda 1991); Malayasia (Brooks 1981); Nepal (Kiauta & Kiauta 1983 a); Rockhampton (Brauer 1869); Singapore (Kiauta & Kiauta 1982b); Taiwan (Tsuda 1991); Thailand (Kiauta & Kiauta 1983b; Titayavan 1979); Turkey (Schneider 1985); Yunnan (Moore 1878).

Genus : *Diplacodes* Kirby

Distribution : India : Andhra Pradesh, Andaman Is., Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Orissa, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal, Nicobars.

Outside India : Afghanistan, Algeria, Australia, Bangladesh, Benin, Botswana, Burkina Faso, Cameroon, China, Cot'divorie, Egypt, Fiji, Guinea, Guinea-bissau, Indonesia, Italy, Iraq, Japan, Kampuchea, Kenya, Laos, Liberia, Libya, Malawi, Mali, Malayasia, Morocco, Mauritius, Madagascar, Mozambique, Marina Is., Marshall Is., Namibia, Nepal, New Celandonia, New Zealand, Niger, Oman, Papua New Guinea, Portugal, Palau, Qater, Reunion, Samoa, South Africa, Senegal, Somalai, Saudi Arabia, Seychelles, Spain, Sudan, Swaziland, Sri Lanka, Syria, Thailand, Togo, Tunisia, Turkey, Tanzania, Vanuatu, Vietnam, Zambia, Zimbabwe.

127. *Diplacodes trivialis* (Rambur)

Distribution : India : (a) *Meghalaya* : Barapani, Burnihat, Cherrapunjee, Dawki, Garampani, Mawpat, Mawrykereng, Myllem, Nongpoh, Nongstein, Shillong, Umroi, Umsmalen, Umsning, Umthan, Thadlaskein (Lahiri 1987). Mawsami to Shella Road (Prasad & Ghosh 1984a). (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Assam (Lahiri 1979); Barkuda Island (Fraser & Dover 1922); Calcutta (Mitra 1983); Chilka Lake (Laidlaw 1915b); Madras (Dasgupta 1957); Manipur, Mizoram (Lahiri 1979); Puri (Dasgupta 1957); Tripura (Lahiri 1977a). *Northern India* : Doon Valley (Singh & Prasad 1976); Uttar Pradesh (Ram et. al. 1983). *Central India* : Bhandara (Bhasin 1953); Chindwara (Mitra 1988); Raipur (Bhasin 1953); Seoni (Mitra 1988). *Southern India* : Deccan (Fraser 1931). *Western India* : Annaimalai, Bolovumpattis, Cochin, Coorg, Kanara (Fraser 1931); Mahabaleswar (Fraser 1921c); Malabar, Nilgiris (Fraser 1931); Silent valley (Rao & Lahiri 1983), Great Nicobar Is. (Mitra 1995)

Outside India : Australia (Tsuda 1991); Bharno (Selys 1891); Burma (Laidlaw 1914); China (Needham 1930); Chittagonj (Chowdhury & Akhteruzzaman 1981); Formosa (Needham 1930); Japan; Mandalaya, Malaya (Selys 1891); Micronesia (Lieftinck 1962); Nepal (Asahina 1955; Kiauta 1975; St. Quentin 1970); Philippines (Asahina 1968; Kiauta & Kiauta 1983a); Rockhampton (Ceylon) (Brauer 1869); Taiwan (Lieftinck et.al.1984); Tennasserim (Lieftinck 1948).

128 : *Diplacodes nebulosa* (Fabricius)

Distribution : India : (a) *Meghalaya* : Darugiri, Lailad, Rongtham River bank, Rongrengiri, Shillong, Sonapurdi, Songsok, Wageasi (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Assam (Lahiri 1979); Calcutta (Dasgupta 1957); Dibrugarh (Laidlaw 1914); Madras (Fraser 1919b); N.E. Assam (Laidlaw 1914); Puri (Dasgupta 1957); Sikkim (Prasad & Ghosh 1984b); Orissa (Mitra 1994). *Northern India* : Allahabad (Bhasin 1953); Dehra Dun, Kangra (Singh & Prasad 1974); Rajasthan (Prasad & Thakur 1981). *Southern India* : Deccan (Fraser 1931). *Central India* : Bhandara (Bhasin 1953). *Western India* : Coorg (Fraser 1924b); Malabar, Nilgiri (Fraser 1931).

Outside India : Australia (Lieftinck 1971); Burma (Selys 1891); Ceylon (Lieftinck 1971; Selys 1891); China (Needham 1930); Indonesia (Tsuda 1991); Java (Fraser 1991b); Kampuchea, Malayasia, Nepal (Tsuda 1991); Palon (Selys 1891); Papua region (Lieftinck 1971); Tennasserim (Lieftinck 1948); Thailand (Tsuda 1991); Toungoo (Selys 1891).

Genus : *Neurothemis* Brauer

Distribution : India : Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Manipur, Mizoram, Nicobar Is. Orissa, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal.

Outside India: Australia, Bangladesh, Burma, China, Hongkong, Indonesia, Japan, Kampuchea, Laos, Malaysia, Nepal, Papua New Guinea, Russia, Singapore, Solomon Is., Sri Lanka, Taiwan, Thailand, Vanuatu.

129. *Neurothemis fulvia* (Drury)

Distribution : India : (a) *Meghalaya* : Anogiri, Burnihat, Dambu, Dianadubi, Lailad, Napakbeel, Nongpoh, Rongrengiri, Shillong, Sonapurdi, Songsok, Umran, Umsning, Wageasi (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Assam (Lahiri 1979); Buxa (Bhasin 1953), Deejoo, Dibrugarh, Lakhimpur (North) (Laidlaw 1914); Sibsagar, Singhbhum (Bhasin 1953). Mizoram (Mitra 1994). *Central India* : Saugor (Bajjal & Agarwal 1955); *Southern India* : Deccan (Fraser 1931). *Northern India* : Doon Valley (Singh & Prasad 1976). *Western India* : Annaimalai, Cochin, Coorg (Fraser 1931); Calicut (Selys 1891); Kanara, Malabar, Nilgiris (Fraser 1931); Silent Valley (Rao & Lahiri 1983); Travancore (Fraser 1931).

Outside India : Burma, Bhamo (Selys 1891); China (Klots 1947; Needham 1930); Hongkong, Indonesia, Kampuchea, Laos (Tsuda 1991); Malaysia (Brooks 1981); Nepal (Asahina 1955; Kiauta 1975; St. Quentin 1970); Palon (Selys 1891); Taiwan (Lieftinck *et. al* 1984); Teinzo (Selys 1891); Thailand (Tsuda 1991).

130. *Neurothemis intermedia intermedia* (Rambur)

Distribution : India : (a) *Meghalaya* : Bagmara, Balat, Damra, Garampani, Nongpoh, Ranikor, Ratachar, Shillong, Songkhama, Songsak, Umthan (Lahiri 1987). (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Arunachal Pradesh, Assam (Lahiri 1979); Buxa (Bhasin 1953); Mizoram (Lahiri 1979); Sikkim (Lieftinck 1948); Singhbhum (Bhasin 1953). *Northern India* : Chandanpur, Gorakhpur, Surpur (Bhasin 1953). *Central India* : Chhindwara (Mitra 1988). *Southern India* : Deccan (Fraser 1931). *Western India* : Annaimalai (Fraser 1931); Bombay (Fraser 1924b); Coorg, Kanara (Fraser 1931); Khandala (Fraser 1924b); Malabar, Nilgiris (Fraser 1931); Poona (Fraser 1924b) Silent Valley (Rao & Lahiri 1983).

Outside India : Bangladesh (Tsuda 1991); Burma, Ceylon (Fraser 1919b; Lieftinck 1971); China (Tsuda 1991); Nepal (Kiauta 1975; St. Quentin 1970). Thailand (Tsuda 1991).

131. *Neurothemis intermedia atlanta* Ris.

Distribution : India : (a) *Meghalaya* : Sonapurdi (Lahiri 1987), (b) *Outside Meghalaya* : *Eastern India* : Dihing (Upper), Lakhimpur, Sibsagar (Bhasin 1953); Sikkim (Fraser 1936); Tripura (Lahiri 1977a; Mitra & Sen 1975). *Western India* : Nilgiris, Palghat, Wynaad (Fraser 1936).

Outside India : Burma (Fraser 1936); Kampuchea (Tsuda 1991); Nepal (St. Quentin 1970); Thailand (Tsuda 1970).

132. *Neurothemis tullia tullia* (Drury)

Distribution : India : (a) Meghalaya : Nongpoh, Shillong, Wageasi (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Andhra Pradesh (Joseph & Satyarani 1988); Assam (Lahiri 1979); Barkuda Island (Fraser & Dover 1922); Calcutta (Mitra 1983); North Lakhimpur (Laidlaw 1914); Pusa (Bhasin 1953); Tamil Nadu (Kumar 1990). Northern India : Bharatpur (Bajal & Agarwal 1955). Doonvalley (Singh & Prasad 1976); Kangra (Prasad 1976); Uttar Pradesh (Ram et.al 1983). Central India : Bhandara (Bhasin 1953). Western India : Bangalore, Bombay (Fraser 1919b); Coimbatore (Fraser 1924b); Elephanta Is. (Fraser 1919b); Kallar, Nilgiris, Wynaad (Fraser 1924b); Silent valley (Rao & Lahiri 1983).

Outside India : Bhamo, Burma (Selys 1891); China (Rowe 1981; Selys 1891); Hainan (Needham 1930); Hongkong (Tsuda 1991); Indo-China (Lieftinck 1948); Taiwan (Lieftinck et al. 1984); Thailand (Lieftinck 1971). Malayasia, Sri Lanka (Tsuda 1991). Sylhet (Selys 1891).

133. *Neurothemis tullia feralis* (Burmeister)

Distribution : India : Meghalaya : Mawphlong (Prasad)

Outside India : Indonesia (Tsuda 1991).

Genus : Sympetrum Newman

Distribution : India : Arunachal Pradesh, Assam, Gujarat, kashmir, Kerala, Meghalaya, Rajasthan, Sikkim, Tamil Nadu, West Bengal.

Outside India : Both Old & New World.

134. *Sympetrum orientale* (Selys)

Distribution : India : Meghalaya : Dympep, Mawphlong, Pynursla, Shillong, Weilo (Lahiri 1987).

Outside India : China, Nepal (Tsuda 1991).

135. *Sympetrum hypomelas* (Selys)

Distribution : India : (a) Meghalaya : Pynursla, Shillong (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Arunachal Pradesh (Lahiri 1979); Assam, Bengal, Sikkim (Fraser 1919b). Bihar, Manipur, Mizoram (Mitra 1994.)

Outside India : Bangladesh (Tsuda 1991); Bhutan (Fraser 1935a); Burma, Copabo (Selys 1891); China (Needham 1930); Nepal (St. Quentin 1970); Tibet (Fraser 1919b).

Genus : Trithemis Brauer

Distribution : India : Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Algeria, Angola, Bangladesh, Botswana, Benin, Burkina Faso, Burma, Cameroon, China, Congo, Cape verde, Cote d'ivoire, Egypt, Ethiopia, Gabon, Greece, Guinea, Hongkong, Indonesia, Iraq, Italy, Iran, Israel, Japan, Jordan, Kampuchea, Kenya, Laos, Liberia, Libya, Malawi, Malaysia, Mauritius, Mali, Morocco, Mozambique, Namibia, Nepal, Niger, Oman, Papua New Guinea, Philippines, Portugal, Qatar, Reunion, Saudi Arabia, Senegal, Sierra Leone, Somalia, South Africa, Spain, Sri Lanka, Sudan, Syria, Swaziland, Tanzania, Taiwan, Tunisia, Turkey, United Arab Emirates, Vietnam, Zambia, Zimbabwe.

136. *Trithemis aurora* (Burmeister)

Distribution : India : (a) Meghalaya : Barapani, Chitmaring beel, Jakrim, Jowai, Lailad, Mawapat, Mawphlong, Napakbeel, Puksoara, Pynursla, Shillong, Songsak, Umran, Umsning, Thadlaskein. (b) *Outside Meghalaya* : Eastern India : Arunachal Pradesh, Assam (Lahiri 1979); Calcutta (Ram *et. al* 1982); Buxa (Bhasin 1953); Darjeeling (St. Quentin 1936); Dijoo (Laidlaw 1914); Howrah (Ram *et. al.* 1982); Hazaribag (Prasad and Vershney 1988), Manipur, Mizoram (Lahiri 1979); North Lakhimpur, N.E. Assam, Saidya (Laidlaw 1914); Singbhum (Bhasin 1953). Mizoram (Mitra 1994).

Northern India : Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Nalapani (Bhasin 1953); Rajasthan (Bose & Mitra 1976); Uttar Pradesh (Kumar 1982); *Central India* : Balaghat (Bhasin 1953), Betul, Chhindwara (Mitra 1988), *Southern India* : Deccan (Fraser 1931), Madras (Fraser 1919d). *Western India* : Annaimalai, Bolovumpattis (Fraser 1931); Bombay (Fraser 1919c); Cochin, Coorg, Kanara, Malabar, Nilgiris (Fraser 1931); Silent Valley (Rao & Lahiri 1983).

Outside India : Bharno (Selys 1891); Ceylon (Lieftinck 1971); Celebes (Lieftinck 1971); China, Formosa (Needham 1930); Hongkong, Indonesia, Japan, Kampuchea (Tsuda 1991); Karachi (Fraser 1919d); Laos (Tsuda 1991); Malaysia (Brooks 1981); Nepal (St. Quentin 1970); Philippines (Kiauta & Kiauta 1983a); Singapore (Kiauta & Kiauta 1982b); Taiwan (Lieftinck 1984); Teinzo (Selys 1891); Thailand (Titayavan 1979); Timor (Lieftinck 1971); Vietnam (Tsuda 1991).

137. *Trithemis festiva* (Rambur)

Distribution : India : (a) Meghalaya : Barapani, Mawblong, Mawphlong, Mawpat, Nongklan, Nongpoh, Pynursla, Ratanchera, Satmawdon, Shillong, Songsak, Thadlaskein, Umran, Umsning, Umthan (Lahiri 1987). Khasi Hills Dawki Road (Prasad & Ghosh 1984a). (b) *Outside Meghalaya* : *Eastern India* : Arunachal Pradesh (Lahiri 1979); Dijoo, Lakhimpur (North) (Laidlaw 1914); Manipur, Mizoram (Lahiri 1979); Bihar, Orissa, West Bengal (Mitra 1994). *Northern India* : Almora, Bishanpur, Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976); Mothronwala, Nalapani (Bhasin 1953); Rajasthan (Prasad & Thakur 1981), *Southern India* : Tamil Nadu (Kumar 1990); Deccan (Fraser 1931). *Western India* : Annaimalai, Bolovupattis, Cochin, Coorg, Kanara, Malabar, Nilgiris Palnis, Travancore (Fraser 1931).

Outside India : Afghanistan (Tsuda 1991); Burma (Laidlaw 1914); Borneo, Ceylon, Formosa (Fraser 1919d); Hongkong, Iraq, Kampuchea, Laos (Tsuda 1991); Malaysia (Lieftinck

1954); Nepal (Asahina 1955; St. Quentin 1970); New Guinea (Lieftinck 1971); Philippines, Sumatra (Selys 1891); Singapore (Tsuda 1991); Taiwan (Lieftinck *et al.* 1984); Thailand, Vietnam (Tsuda 1991).

138. *Trithemis pallidinervis* Kirby

Distribution : *India* : (a) *Meghalaya* : Cherrapunjee, Darugiri, Mawblong, Myllem, Rongtham river bank, Rongram, Pynursla, Sonapurdi; Songsak, Wageasi (Lahiri 1987). Khasi Hills from Sumer to Kurdem Kulai (Prasad & Ghosh 1984a). (b) *Outside Meghalaya* : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988), Barkuda Island (Fraser & Dover 1922); Calcutta (Dasgupta 1957); Dibrugarh, N.E. Assam (Laidlaw 1914); Nagaland, Pusa (Bhasin 1953) Madras (Fraser 1919d), Puri (Dasgupta 1957); Bihar, Tripura (Mitra 1994). *Northern India* : Allahabad, Dehra Dun (Bhasin 1953); Garhwal Hills (Prasad 1974); Kangra (Prasad 1976). Lachhiwala, Mussorie (Bhasin 1953); Rajasthan (Prasad & Thakur 1981), *Western India* : Bombay, Deesa (Fraser 1919d); Khandala, Nilgiris, Palni (Fraser 1924b); Poona (Fraser 1919d).

Outside India : Bhamo, Burma (Selys 1891); Ceylon (Fraser 1919d); China, Formosa (Needham 1930); Mandalaya (Selys 1891); Nepal (St. Quentin 1970); Indonesia, Malayasia (Tsuda 1991); Palon, Toungoo (Selys 1891); Philippines (Kiauta & Kiauta 1983a), Singapore, Thailand (Tsuda 1991), Thibet (Fraser 1919d).

Genus : *Zygonyx* Selys-Hagen

Distribution : *India* : Assam, Karnataka, Kerala, Tamil Nadu, West Bengal.

Outside India : Angola, Bangladesh, Botswana, Burma, Cameroon, China, Comoros, Congo, Egypt, Guinea, Hongkong, Indonesia, Kenya, Laos, Malayasia, Mali, Malawi, Madagascar, Mauritius, Mozambique, Namibia, Nepal, Nigeria, Oman, Portugal, Reunion, Seychelles, Sierra Leone, Sri Lanka, South Africa, Spain, Swaziland, Sudan, Taiwan, Tanzania, Togo.

139. *Zygonyx iris iris* Selys

Distribution : *India* : (a) *Meghalaya* : Shillong (Fraser 1936). (b) *Outside Meghalaya* : *Eastern India* : Panibas, Bengal (Fraser 1936); Manipur (Mitra 1994).

Outside India : Bangladesh, Nepal (Tsuda 1991).

140. *Zygonyx iris davina* Fraser

Distribution : *India* : (a) *Meghalaya* : Khasi Hills (Fraser 1936). (b) *Outside Meghalaya* : Darjeeling, Pashoke, West Bengal (Fraser 1936).

141. *Zygonyx iris intermedia* Lahiri

Distribution : *India* : *Meghalaya* : Barapani, Nongpoh (Lahiri 1987).

Genus : *Onychothemis* Brauer

Distribution : *India* : Karnataka, Kerala, Meghalaya, Tamil Nadu, West Bengal.

Outside India : Burma, Indonesia, Madagascar, Malayasia, Philippines, Sri Lanka, Taiwan, Thailand, Vietnam.

142. *Onychothemis testacea ceylanica* Ris

Remark : Lahiri (1987) did not determine the status of the specimen (1 ♂). The description he provided agrees with the description of *O. t. ceylanica*. Variations recorded by Lahiri seems to be individual variations.

Distribution : India : (a) Meghalaya : Shillong (Lahiri 1987). (b) Outside Meghalaya : *Western India* : Coorg, *Eastern India* : Mudi Hills, Nilgiris (Fraser 1936).

Outside India : Sri Lanka (Tsuda 1991).

Genus : *Rhyothemis* Hagen

Distribution : India : Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Algeria, Angola, Australia, Bangladesh, Benin, Botswana, Burma, Cameroon, China, Cote d'Ivoire, Egypt, Fiji, Gabon, Guam, Guinea-Bissau, Hongkong, Indonesia, Japan, Korea, Liberia, Madagascar, Malawi, Mauritius, Mauritania, Mozambique, Namibia, Nepal, New Caledonia, Oman, Papua New Guinea, Philippines, Reunion, Samoa, Senegal, Sierra Leone, Singapore, Seychelles, Solomon Is., Sri Lanka, Syria, Taiwan, Tanzania, Tunisia, Vanuatu, Vietnam, Zaire, Zambia, Zimbabwe.

143. *Rhyothemis variegata variegata* (Linnaeus)

Distribution : India : (a) Meghalaya : Balfagram, Barapani, Burnihat, Cherrapunjee, Mawblong, Nongkhan, Sonapurdi, Umran (Lahiri 1987). (b) Outside Meghalaya : *Eastern India* : Andhra Pradesh (Joseph & Satyarani 1988); Barkuda Island (Fraser & Dover 1922); Calcutta (Fraser 1919d); Kangra (Prasad 1976); Sibsagar (Bhasin 1953). Manipur (Mitra 1994). *Central India* : Saugor (Bajal & Agarwal 1955), *Southern India* : Deccan (Fraser 1931). *Western India* : Bangalore, Bombay (Fraser 1919d); Cochin, Coorg, Malabar, Nilgiris (Fraser 1931).

Outside India : Bangladesh : Dacca, Sylhet (Bhasin 1953), Chittagong (Chowdhury & Akhteruzzaman 1981); Bhama, Burma (Fraser 1919d); Borneo (Lieftinck 1948); Ceylon (Fraser 1936); China (Klots 1945); Mandalaya (Burma) (Fraser 1919d); Nepal (Kiauta 1975; St. Quentin 1970); Teinzo (Selys 1891); Vietnam (Tsuda 1991); Yunnan (Moore 1878).

Genus : *Tholymis* Hagen

Distribution : India : Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Laccadives, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Angola, Australia, Bangladesh, Botswana, Brazil, Burkina Faso, Burma, Cameroon, Central Africa, Chile, China, Colombia, Costa Rica, Cote d'Ivoire, Cuba, Dominican

Republic, Ecuador, Guatemala, Guinea-Bissau, Guyana, Indonesia, Japan, Jamaica, Kampuchea, Kenya, Laos, Liberia, Madagascar, Malawi, Mariana Is., Malaysia, Marshall Island, Mauritius, Mexico, Mozambique, Micronesia, Namibia, Nepal, Niger, Nigeria, Panama, Palau, Papua New Guinea, Peru, Philippines, Puerto Rico, Reunion, Samoa, Senegal, Seychelles, Singapore, Somalia, Sri Lanka, Sudan, South Africa, Taiwan, Tanzania, Trinidad, Togo, Venezuela, Vietnam, Zaire, Zambia, Zimbabwe.

144. *Tholymis tillargo* (Fabricius)

Distribution : India : (a) Meghalaya : Burnihat, Lailad, Ranikor, Rongrengiri, Rongtham, Ratachara, Shillong (Lahiri 1987). (b) Outside Meghalaya : Arunachal Pradesh (Lahiri 1977a); Barkuda Island (Fraser & Dover 1922); Dejoo, North Lakhimpur, N.E. Assam (Laidlaw 1914). Mizoram (Mitra 1994). Northern India : Kangra (Prasad 1976); Uttar Pradesh (Ram et. al. 1983). Southern India : Deccan (Fraser 1931), Trichur (Bajjal & Agarwal 1955), Western India : Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgiris (Fraser 1931); Poona (Fraser 1919e). Laccadives (Fraser 1924b).

Outside India : Australia (Tsuda 1991). Bangladesh (Chowdhury & Akhteruzzaman 1981); Bhama, Burma (Selys 1891); Cameroon (Pinhey 1974a); Ceylon (Fraser 1920c), China (Klots 1947); Ethiopia (Pinhey 1981a); Garamba National Park (Pinhey 1966b); Indo-China, Indo-Malaysia (Fraser 1920c); Japan, Kampuchea, Laos (Tsuda 1991); Madagascar (Fraser 1956); Malawi (Pinhey 1966a; 1979b); Mozambique (Pinhey 1981b); Micronesia (Lieftinck 1962), Somali (Carfi 1974), North America (Borror 1945); Tanzania (Pinhey & Pinhey 1984); Vietnam (Tsuda 1991).

Genus : *Hydrobasilius* Kirby

Distribution : India : Andhra Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya.

Outside India : Australia, Bangladesh, Burma, China, Indonesia, Japan, Kampuchea, Malaysia, Papua New Guinea, Philippines, Singapore, Sri Lanka, Taiwan, Thailand, Vietnam.

145. *Hydrobasilius croceus* (Brauer)

Distribution : India : (a) Meghalaya : Umthan (Lahiri 1987). (b) Outside Meghalaya : Eastern India : Andhra Pradesh (Joseph & Satyrani 1988). Western India : Coorg, Khandala, Malabar (Fraser 1936).

Outside India : Bangladesh, Burma, China, Indonesia, Japan, Kampuchea, Malaysia, Philippines, Singapore, Sri Lanka, Taiwan, Thailand, Vietnam (Tsuda 1991).

Genus : *Pantala* Hagen

Distribution : India : Throughout India.

Outside India : Africa, Asia, Australia, America, Europe, throughout the tropical and subtropical zones; two species have so far been discovered and both are migratory in nature.

146. *Pantala flavescens* (Fabr.)

Distribution : *India :* (a) *Meghalaya :* Anogiri, Balfagram, Barapani, Cherrapunjee, Damra, Degrangiri, Mawphlong, Mawphlong, Mawryngkieng, Maŵaynram, Nongpoh, Puksoara, Pynursla, Shillong, Sonapurdi, Umroi, Umsning (Lahiri 1987). (b) *Outside Meghalaya :* *Eastern India :* Andhra Pradesh (Joseph & Satyarani 1988); Arunachal Pradesh, Assam (Lahiri 1979); Barkuda Island (Fraser & Dover 1922); Calcutta (Mitra 1983); Chilka Lake (Dasgupta 1957); Lakhimpur (Bhasin 1953); Midnapore (Dasgupta 1957); Sibsagar, Upper Dihing (Bhasin 1953), Waltair (Mitra 1976), *Northern India :* Dehra Dun (Bhasin 1953); Garhwal Hilla (Prasad 1974); Kashmir (Calvert 1896); Rajasthan (Prasad & Thakur 1981); Uttar Pradesh (Kumar 1982); Western Himalaya (Kumar & Prasad 1981). *Southern India :* Deccan (Fraser 1931). *Western India :* Bolovumpattis, Cochin, Coorg, Kanara, Malabar, Nilgirs, Palni Hills (Fraser 1931); Mahabaleswar (Fraser 1921c). Andaman (Fraser 1924a); Nicobar (Brauer 1864).

Outside India : Angola (Pinhey 1961); Bharno, Burma (Selys 1991); Chittagonj (Chowdhury & Akhteruzzaman 1981) Ceylon (Lieftinck 1971); Cayo Avalos, Cuba (Carfi 1975); Ethiopia (Pinhey 1981a); Garamba national Park (Pinhey 1966b; 1979); Fernando Po (Pinhey 1974a); Karonga (Pinhey 1979c); Malawi (Pinhey 1966a); Malayasia (Brooks 1981); Mauritania (Dumont 1976); Madagascar (Fraser 1956); Mt. Mlanje (Pinhey 1979c); Mocambique (Pinhey 1981b), Nepal (Asahina 1955; Kiauta 1975; St. Quentin 1970), Ngamiland (Pinhey 1967), Pamir (Wojtusiak 1974); Peking (Rowe 1981); Principe (Pinhey 1974a); Puepoli (selys 1891); Seychelles (Blackman & Pinhey 1967). Salima Bay (Pinhey 1979c); Sao (Pinhey 1974a); Singapore (Kiauta & Kiauta 1982b); Somaliland (Carfi 1974); Texas (Donnelly 1978); Tome (Pinhey 1974); Tougoo (Selys 1891); Uruguay (De Abenante 1982); Venezuela (Garrison 1983); Yunnan (Moore 1878); Zambezi River (Pinhey 1981a).

Genus: *Urothemis* Brauer

Distribution: *India:* Assam, Karnataka, Kerala, Maharashtra, Orissa, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India: Australia, Algeria, Bangladesh, Botswana, Burkina Faso, China, Coted'ivoire, Egypt, Ethiopia, Guinea, Indonesia, Israel, Kanpuchea, Kenya, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Namibia, Niger, Nigeria, Nepal, Oman, Papua New Guinea, Philippines, Senegal, Sierra Leone, Singapore, Somalia, South Africa, Sudan, Sri Lanka, Taiwan, Tanzania, Thailand, Tunisia, Vietnam.

147. *Urothemis signata signata* (Rambur)

Distribution: *India:* (a) *Meghalaya:* Barapani, Sonapurdi, (Lahiri 1987). (b) *Outside Meghalaya:* Assam (Fraser 1920b); Barkuda Island (Fraser & Dover 1922); Bengal (Fraser 1920b); Bhubaneswar (Dasgupta 1957); Calcutta (Mitra 1983); *Southern India:* Deccan (Fraser 1931). *Northern India:* Uttar Pradesh (Ram et. al. 1983). *Western India:* Bangalore, Bombay (Fraser 1920b); Cochin, Coorg, Kanara, Malabar (Fraser 1931); Poona (Fraser 1920b). *Southern India:* Madras (Fraser 1936); Ceylon (Fraser 1920b).

Outside India : Burma (Fraser 1936); Ceylon (Fraser 1920b); China, Formosa (Needhen 1930); Indo-China, Malayasia (Fraser 1936); Nepal (Kiauta 1974); Thailand (Titayavan 1979); Vietnam (Tsuda 1994).

Genus : *Tramea* Hagen

Distribution : *India* : Assam, Bihar, Karnataka, Kerala, Lacca dives, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Rahasthan, Tamil Nadu, Uttar Pradesh, West Bengal.

Outside India : Angola, Argentina, Australia, Bangladesh, Bhamas, Barbados, Barmuda, Belize, Benin, Bolivia, Botswana, Brazil, Burkina Faso, Burma, Cameroon, Cayman Is., Central Africa, Congo, Cossa Rica, Coted'ivoire, Cuba, Dominica, Ecuador, Fiji, French Guiana Guatemala, Guyana, Malayasia, Mali, Marshal Is., Mariana Is., Mauritiana, Mauritius, Mexico, Mozambique, Microesia, Nomibia Niger, Nigeria, Nepal, New Caledonia, Newzealand, Palau, Panama, Papua New Guinea, Paraguay, Reunion, Saint Lucia, Senegal, Seychelles, Sierra leone Somalia, South Africa, Sri Lanka, Tanzania, Thailand, Tobago, Togo, Trinidad, United Sates of America, Vanuatu, Venezuela, Vietman, Zaire, Zambia, Zimbabwe.

148. *Tramea basilaris burmeisteri* Kirby

Distribution : *India* : (a) *Meghalaya* : Khasi Hills (Prasad & Ghosh 1984a). (b) *Outside Meghalaya* : *Eastern India* : Barkudā Island (Fraser & Dover 1922); Calcutta (Mitra 1983); Chilka Lake (Dasgupta 1975), *Northern India* : North Western India (Kimmins 1968); Uttar Pradesh (Ram et.al 1982); Western Himalaya (Prasad & Kumar 1981). *Central India* : Bhandara (Mitra 1988); Saugor (Baijal & Agarwal 1955). *Southern India* : Deccan (Fraser 1931). *Western India* : Bolovumpattis (Fraser 1931), Bombay (Fraser 1920a); Coorg, Kanara, (Fraser 1931), Kathiwar (Fraser 1920a); Mahabaleswar (Fraser 1921c); Malabar, Nilgiris (Fraser 1931).

Outside India : Burma, Ceylon, Indo-Malaya, Thibet (Fraser 1920a); Nepal (Kaiuta & Kiauta 1982a; st. Quentin 1970) Japan, Thailand Vienam (Tsuda 1991).

Fauna of Garo, Khasi and Jaintia Hills

Garo Hills : *Libellago lineata*, *Rhinocypha perforta beatfica*, *Rhinocypha biforata delimbata*, *Vestalis Gracilis gracilis*, *Rhinocypha quadrimaculata*, *Neurobasis chinensis chinensis*, *Orolestes durga*, *Lestes concinus*, *Lestes garoensis*, *Prodasineura autumanalis*, *Copera cilita*, *Copera marginipes*, *Coellicciavacca*, *Ceriagrion coromandelianum*, *Pseudagraion australasiae*, *Pseudagrion rubriceps rubrices*, *Pseudagrion spencei*, *Enallagam Parvum*, *Ischnura aurora aurora*, *Ischnura rufostigama rufostigama*, *Agriocnemis pygamea*, *Argiocnemis rubescens rubeola*, *Heligomohus selysi*, *Heligomphus spirillus*, *Nihonogomphus indicus*, *Onychogomphus meghalayanus*, *Onychogomohus duaricus*, *Phaenandrogomphus aureus*, *Paragomphus eechinoccipitalis*, *Paragomphus lineatus*, *Periaeschna magdalena*, *Periaeschna biguttata*, *Gynacantha bayadera*, *Gynacantha sp. indet*, *Tetrathemis platyptera*, *Lyriothemis bivittata*, *Orthetrum glaucum*, *Orthetrum luzonicum* *Orthetrum sahina sabina*, *Orthetrum triangulare triangulare*, *Potamarcha congener*,

Palpopleura sexmaculata sexmaculata, *Brachydiplax sobrina*, *Acisoma panorpides panorpoides*, *Neurothemis fulvia*, *Neurothemis intermedia intermedia*, *Neurothemis tullia tullia*, *Trithemis aurora*, *Trithemis festiva*, *Trithemis pallidinervis*, *Rhyothemis variegata*, *Tholymis tillarga*, *pantala flavescens*.

Khasi Hill : *Philoganga montana*, *Libellago lineata lineata*, *Rhinocypha quadrimaculata*. *Rhinocypha perforta beatifica*. *Rhinocypha spuria*, *Rhinocypha ignipennis*, *Rhinocypha immaculata*. *Rhinocypha vitrinella*. *Anisopleura hyalina*, *Bayadera indica*. *Bayadera kali*, *Caliphaea confusa*, *Echo margarita tripartita*, *Vestalis gracilis*, *Euphaea ochracea brunnea*, *Matrona basilaris basilaris*, *Matrona basilaris nigripictus*, *Megalestes major*, *Indolestes indica*, *Lestes dorothea*, *Elattonneura atkinsoni*, *Elattonneura campioni campioni*, *Prodasineura autumnalis*, *Copera vittata serapica*, *Calicnemia eximia*, *Calicnemia pulverulans*, *Coelicia didyma*, *Coelicia fraseri*, *Indocnemis kempi*, *Ceriagrion azureum*, *Ceriagrion fallax pandlebury*, *Ceriagrion olivaceum*, *Pseudegrion rubriceps rubriceps*, *Pseudagrion spencei*, *Aciagrion pallidum*, *Aciagrion tillyardi*, *Enallagma parvum*, *Ischnura aurora aurora*, *Agriocnemis clauseni*, *Agriocnemis pygmaea pygmaea*, *Argiocnemis rubescens rubeola*, *Anisogomphus caudalls*. *Anisogomphus orites*, *Davidius mallyori*, *Dubitogomphus bidentatus*, *Asiagomphus personatus*, *Heliogomphus selysi*, *Heliogomphus spirillus*, *Megalogomphus bicornuatus*, *Merogomphus martini*, *Onychogomphus maculivartex*, *Nepogomphus modestus*, *Paragomphus echinoccipitalis*, *Perissogomphus stevensi*, *Stylogomohus inglisi*, *Oligoaeschna khasiana*, *Oligoaeschna martini*, *Oligoaeschna decorata*, *Periaeschna fliniti assamensis*, *Periaeschna nocturnalis*, *Petaliaeschna fletcheri*, *Tetracanthagyna waterhousei*, *Aeshna petalura petalura*, *Anax guttatus*, *Anax sp. indet.* *Gynacantha dravida*, *Gynacantha khasiaca*, *Chlorogomphus atkinsoni*, *Chlorogomphus fraseri*, *Anotogaster sp. indet.*, *Hemicordulia asiatica*, *Somatochlora daviesi*, *Idionyx imbricata*, *Idionyx intricata*, *Idionyx optato*, *Macromia moorei moorei*, *Tetrathemis platyptera*, *Lyriothemis tricolor*, *Orthetrum glaucum*, *Orthetrum japonicum internum*, *Orthetrum luzonicum*, *Orthetrum sabina sabina*, *Orthetrum triangulare triangulare*, *Potamarcha congener*, *Palpopleura sexmaculata sexmaculata*, *Nannophya pygmaea*, *Brachythemis contaminata*, *Crocothemis servilia servilia*, *Diplacodes trivialis*, *Diplacodes nebulosa*, *Neurothemis fulvia*, *Neurothemis tullia feralis*, *Sympetrum hypomelas*, *Symeptum orientale*, *Trithemis aurora*, *Trithemis festiva*, *Trithemis pallidinervis*, *Zygonyx iris davina*, *Zygonyx iris iris*, *Zygonyx iris intermedia*, *Onychothemis testacea ceylanica*, *Onychothemis testacea ceylanica*, *Rhyothemis variegata variegata*, *Tholymis tillarga*, *Hydrobasileus croceus*, *Pantala flavescens*, *Urothemis signata*, *Tramea basilaris burmesteri*.

Jaintia Hill : *Philoganga montana*, *Rhilocypha ignipennis*, *Rhinocypha quadrimaculata*, *Elattonneura atkinsoni*, *Calicnemia imitans*, *Aciagrion tillyardi*, *Ischnura aurora aurora*, *Ischnura rufostigma rufostigma*, *Agriocnemis clauseni*, *Agriocnemis lacteola*, *Agriocnemis pygmaea pygmaea*, *Merogomphus martini*, *Hemicordulia asiatica*, *Orthetrum glaucum*, *Orthetrum triangulare triangulare*, *Palpopleura sexmaculata sexmaculata*, *Brachythemis contaminata*, *Crocothemis servilia servilia*, *Diplacodes trivialis*, *Diplacodes nebulosa*, *Neurothemis fulvia*, *Neurothemis intermedia intermedia* (*Ratachara* 5 0⁺ 3 0), *Neurothemis intermedia atlanta* (*Sonapurdi* 20⁺), *Trithemis aurora*, *Trithemis festiva*, *Trithemis pallidinevis*, *Rhyothemis variegata variegata*, *Tholymis tillarga*, *Pantala flavescens*, *Urothemis signata signata*.

Following is a list of localities with their altitudes in parenthesis (Fig.3) reported by Lahiri (1987).

1-26 are located in Garo hills. Sl. Nos. 27-74 are located in Khasi hills and Sl. Nos. 75-80 are located in Jaintia hills. (1) Anogiri (430m); (2) Bagmara (175m); (6) Chitmaring beel (350m); (7) Dainadubi (170m); (8) Dambu (175m); (9) Damra (150); (10) Darugiri (200m); (11) Degrangiri (500m); (12) Kobal (325); (13) Napak beel (350m); (17) Rongjeng (275m); (18) Rongtham river bank near Rongjeng (250m); (19) Rongram (550m); (20) c 10 kms east of Rongram (on Rongrengiri road (425m); (21) Rongrengiri (340m); (22) Songkhama (550m) (23) Songsok (330m); (24) Tebangiri (500m); (25) Wageasi (250m); (26) c 7 7 kms South of Wageasi (on Rongjeng road) (325m); (27) Balat (150m); (28) c 18 kms north of Balat (on Mawsynram road) (425m); (29) Barapani (1175m) ; (30) Burnihat (190m); (31) Jakrim (1460m); (35) Lailad (360m); (36) Lailyngkot (1975m); (37) Mairang (1700m); (38) Mawblong (1300m); (39) Mawiong (1200m); (40) Mawlai (1300m); (41) Mawlyndep (1200m); (42) Mawpat (1300m); (43) Mawphlong (1050m); (44) Mawrapat (1400m); (45) Mawroh (1900m); (46) Mawryngkreng (1450m); (47) Mawsynram (1550m); (48) 4 kms south of Mawsynram (on rinku Road); (49) Myllem (1825m); (50) naya Bunglow (750m); (51) Nonghyllan (600m); (52) Nongklan (1650m); (53) Nongpoh (650m); (54) Nongstoin (1875m); (55) Old Barapani roadside (1175-1430m); (56) Pynursla (1500m) (57) Puksora (125m); (58) Ranikor (160-225m); (59) C 10 kms east of Ranikor (on Balat road) (475m); (60) Satmawdon (125m) (61) Shella (170m); (62) Shillong (1600-1650m); (63) Upper Shillong (1850-2000m); (64) Sonapahar (1925m); (65) c 10 kms west of Sonapahar (68) Umran (790m); (69) Umroi (1125m); (70) Umasamlem (675)m; (71) Umsning (875m); (72) Umtham (850m); 973) Umtynger (1825m); (74) Weiloi (1650m); (75) Garampani (200m); (76) Jowai (1350m); (77) Ratachara (500m); (78) Sonapurdi (175m); (79) Shangphung (600m); (80) Thadlaskain (1460m).

DISCUSSION

The state of Meghalaya having an area of 22,549 sp. km. supports 148 species and subspecies distributed over 80 genera, 14 families and two suborders. Lahiri (1987) reported *Chlorogomphus campioni* Fraser from the state. It is actually a mistake since the species is confined in the Western Ghats.

Analysis of the number of species and subspecies reveals the following data (number of species and subspecies are within the brackets and number of genera are outside the brackets).

Amphierygidae : 1 (1sp.); Chlorocyphidae: 2 (8 spp. & subspecies). Euphaeidae : 3 (8 spp. & subspecies); Calopterygidae : 5 (8 spp.& subspecies); Synlestidae : 1 (2 spp.); Lestidae : 3 (5spp.); Protoneuridae : 2 (3 spp.); Platycnemididae : 4 (13 spp.); Coenagrionidae: 7 (16 spp.); Gomphidae : 15 (20 spp.); Aeshnidae : 9 (17spp.) Cordulegasteridae : 2 (4 spp.); Corduliidae : 4 (5spp.); Libellulidae : 22 (38 spp.subspecies).

From the above data it is clear that like other parts of the world Libellulidae is the most successful group in the state. Next to this come successively families viz. Gomphidae, Aeshnidae and Coenagrionidae both in number of genera and species.

Analysis of data on geographical distribution leads to the following deductions.

A. Endemics :

1. To the state

(a) Genus : *Dubitogomphus* Fraser

(b) Species and subspecies : (1) *Anisopleura subplatyla* Fraser, (2) *Anisopleura vallei* St. Quentin, (3) *Anisopleura lieftincki* Prasad & Ghosh, (4) *Bayadera hyalina* Selys, (5) *Bayadera kali* Cowley, (6) *Echo margarita tripartita* Selys, (7) *Elatoneura atkinsoni* (Selys), (8) *Calicnemia mukherjeei* Lahiri, (9) *Coelliccia fraseri* Laidlaw, (10) *Coelliccia sarbottama* Lahiri, (11) *Anisogomphus caualis* Fraser, (12) *Davidius mallyori* Fraser, (13) *Dubitogomphus bidentatus* Fraser, (14) *Heliogomphus spirillus* (Fraser), (15) *Megalogomphus bicornuatus* (Fraser), (16) *Nihonogomphus indicus* Lahiri, (17) *Onychogomphus meghalayanus* Lahiri, (18) *Paragomphus echinoccipitalis* (Fraser), (19) *Phaenandrogomphus aureus* (Laidlaw), (20) *Oligoaeschna khasiana* Lieftinck, (21) *Oligoaeschna decorata* Lieftinck, (22) *Periaeschna flinti assamensis* Asahina, (23) *Somatochlora daviesi* Lieftinck, (24) *Idionyx imbricata* Fraser, (25) *Idionyx intricata* Fraser (26) *Zygonyx iris intermedia* Lahiri,

Indeterminate species considered to be endemic (27) *Anax* sp. indet, (28) *Gynacantha* sp. indet, (29) *Anotogaster* sp. indet.

2. Endemic to India (Excluding those which are endemic to the state).

Rhinocypha biforata beatifica Fraser., *Rhinocypha vitrinella* Fraser. *Lesetes garonesis* Lahiri, *Orolestes durga* Lahiri, *Aciagrion tillyardi* Laidlaw, *Anisogomphus ories* Laidlaw, *Perissogomphus* Laidlaw, *Petaliaeschna fletcheri* Fraser, *Chlorogomphus fraseri* St. Quentin.

3. Oriental Forms (Excluding Indian and state forms)

(a) Genera : *Perissogomphus* Laidlaw, *Phaenandrogomphus* Lieftinck

(b) Species and subspecific forms.

Philoganga montana *Rhinocypha biforata delimbata* Selys, *Rhinocypha ignipennis* Selys, *Rhinocypha immaculata* Selys, *Rhinocypha quadrimaculata* Selys *Rhinocypha spuria* Selys, *Bayadera indica* (Selys) *Euphaea orchacea brunnea* Selys, *Neurobasis chinensis chinensis* (Linne) *Vestalis gracilis gracilis* (Rambur), *Vestalis smargdina* (Selys), *Indolestes indica* Fraser, *Lestes dorothea* Fraser *Elatoneura campioni* Laidlaw, *Coelliccia didyma didyma* (Selys). *Coelliccia vacca* Laidlaw, *Ceriagrion azureum* (Selys), *Ceriagrion olivaceum* Laidlaw, *Aciagrion tillyardi* Laidlaw, *Ceriagrion azureum* (Selys), *Ceriagrion olivaceum* Laidlaw, *Aciagrion tillyardi* Laidlaw, *Aciagrion pallidum* Selys, *Agriocnemis clauseni* Fraser, *Enallagma parvum* Selys, *Agriocnemis rubescens rubeola* Selys, *Asiagomphus personatus* (Selys), *Heliogomphus selysi* (Fraser), *Merogomphus martini* (Fraser), *Stylogomphus inglisi* Fraser, *Oligoaeschna martini* (Laidlaw), *Periaeschna nocturnal* Fraser, *Aeshna petalura petalura* Martin, *Gynacantha khasiaca* McLachlan, *Chlorogomphus atkinsoni* (Selys), *Idionyx optata* Selys, *Macromia morei moorei* Selys, *Brachydiplax sobrina* (Rambur), *Neurothemis intermedia intermedia* (Rambur), *Neurothemis intermedia atlanta* Ris, *Zygonyx iris iris* Selys.

4. Old World forms : (Excluding Indian & Oriental forms)

Libellago lineata lineata (Burm.), *Matrona basilaris basilaris* Selys *Megalestes major* Selys, *Lestes concinnus* Selys, *Prodasineura autumnalis* (Fraser), *Prodasineura autumnalis* (Fraser), *Copera ciliata* Selys, *Copera marginipes* Rambur, *Calicnemia eximia* (Selys), *Calicnemia imitans* Lieftinck, *Indocnemis kempfi* Laidlaw, *Ceriagrion coromandelianum* (Fabr.), *Ceriagrion fallax pandlebury* Lieftinck, *Pseudagrion australasiae* Selys, *Pseudagrion rubriceps rubriceps* Selys *Pseudagrion spencei* Fraser, *Ischnura aurora* (Hagen), *Ischnura rufostigma rufostigma* Selys, *Agriocnemis lacteola* Selys, *Agriocnemis pygmaea pygmaea* (Rmbur), *Paragomphus linetus* (Selys) *Periaeschna magdalena* Martin, *Teracanthagyna waterhousei* McLachlan, *Gynacantha bayadera* Selys, *Hemicordulia asiatica* Selys, *Tetrathemis plalyptera* Selys, *Lyriothemis tricolor* Ris, *Orthetrum glaucum* (Brauer), *Orthetrum pruinsum neglectum* (Rambur), *Orthetrum sabina sabina* (Drury), *Orthetrum triangulare triangulare* (Selys), *Potamarcha congener* (Rambur), *Palpopleura sexmaculata sexmaculata* (Fabr.) *Brachydiplax sobrina* (Rambur) *Acisoma panorpoides panorpoides* Rambur *Nannophya pygmaea* Rambur, *Brachythemis contaminata* (Fabricius), *Diplacodes trivialis* (Rambur), *Diplacodes nebulosa* (Fabr.), *Neurothemis fulvia* (Drury), *Neurothemis tullia tullia* (Drury), *Sympetrum hypomelas* (Selys), *Sympetrum orientale* (Selys), *Trithemis aurora* (burm.) *Trithemis festiva* (Rambur), *Trithemis pallidinervis* (Kirby), *Rhyothemis variegata vriegata* (Linne), *Hydrobasileus croceus* (Braur), *Urothemis signata signata* (Rambur), *Tramea basilaris burmeisteri* Kirby.

5. Extended to New World :

Crocothemis servilia servilia (Drury), *Tholymis tillarga* (Fabricius), *Pantala flavescens* (Fabricius).

Pattern of distribution of species and subspecies : continuously distributed species :(It does not indicate place of origin and migration route).

1. *Penisular India to Australia* (Via Gangetic plains, Assam region, Indo-Chinese subregion, Malayasia).

Ceriagrion cormandelianum, *Ischnura aurora aurora*, *Agricnemis pygmaea pygmaea*, *Orthetrum pruniosum neglectum*, *Potamarcha congener*, *Acisoma panorpoides panorpoides*, *Diplacodes trivialis*, *Diplacodes nebulosa*, *Trithemis aurora* etc.

2. *Penisular India to Malayasia* (Via Gangetic plains, Assam region, Indo-Chinese subregion).

Neurobasis chinensis chinensis, *Urothemis signata signata*, *Lathrecista asiatica asiatica*, *Orthetrum luzonicum*, *Palpopleura sexmaculata sexmaculata*, *Brachythemis contaminata*, *Neurothemis fulvia*, *Trithemis Pallidinervis*. *Rhyothemis variegata variegata* etc.

3. *Penisular India to Indo-chinese subregion* (Via Gangetic plains, Assam region)

Pseudagrion rubriceps rubriceps, *Ceriagrion olivceum*, *Aciagrion pallidium*, *Enallagma parvum*, *Orthetrum triangulare triangulare*, *Brachydiplax sobrina*, *Bradinopyga geminata* etc.

4. *Gangetic plains to Australia* (Via Assam rigion, Indo-chinese subregion, Malayasia)

Pseudagrion australasiae,

5. *Gangetic plains to Indo-chinese subregion* (Via Assam region). *Ischnura rufoshgma*, *rufostigma*, *Matrona baslaris basilaris*, *Gynacantha khasiaca* etc.

6. *Meghlaya to Indo-chinese subregion*

Rhiinocypha biforata delimbata, *Rihinocypha perforata beatifica*, *Rhinocypha supuria*, *Euphaea ochracea brunea*, *Matrona basilaris nigripectus*, *Echo margrita margarita*.

7. *Meghalaya towards Western Himalaya* (Via Eastern and Central Himalaya middle and upper Gangetic plains) as well as towards Malayasia (including Indo-chinese subregion). *Philoganga montana*, *Merogomphus martini*.

8. *Meghalaya to Western Himalaya in the West, China (in the North) and Philippines (in south east)*.

Libellago lineata lineata, *Rhinocypha quadrimaculata*, *Bayadera indica*, *Caliphaea confusa*, *Megalestes major*, *Calicnemis imitans*, *Calicnemis eximia*.

Paths of faunal invasion/exchange : Two paths of faunal exchanges played important roles in the formation of faunal wealth of India. They are : *Western border line* or the area lying between the plains of river Indus and the Iranian-Afghanistan borders. This gate have not played very important roles in the formation of the fauna of the state of Meghalaya.

The role played by the *eastern border line* or the Assam-Burma border line is very important. Although Mani (1974) stresses its importance on the paths of faunal exchange, but in case of Odonata the area is transitional and represents a gate of faunal exchange as well as important centre of differentiation and radiation. The area appears to be an important meeting point of the humid tropical tertiary mountain faunas and the Gondwana fauna. Through this gate almost uninterrupted interchanges have taken place between different parts of eastern India as well as peninsula and Asia. Besides 29 endemic forms (including indeterminate forms) nearly one hundred sixteen forms are almost continuously distributed either from the peninsular India or Gangetic plains to the state. Many of them have spread to Indo-China to Australia in the South-East; China, Tibet in the northern direction Nepal, Western Himalaya, Afghanistan etc in the Western direction.

This exchange mainly involved transgression of the Indo-Chinese and Malayan faunas into India. This has been along two lines—primarily westwards along the Himalays and southwards to peninsula. The asiatic fauna have spread in the direction of the west both to the North and the South of the eastern end of the Himalaya. North of the Himalaya these faunas have transgressed not only to the eastern Tibet but also mountain ranges of the Himalayas on the India side. The Indo-Chinese and the Malayan forms extended further west and they are indeed represented by a series of local forms along the Himalayas.

Remarks on endemism :

For generic endemism, Emerson's (1995) definition is : "Endemic genera are found only in a single major Zoogeographical region" For the present purpose "Endemism" has been evaluated only in terms of the state of Meghalaya which is vast enough extent of land mass (22, 549 sq. km.) to justify a more restricted approach. In this limited sense one genus and twenty nine species and subspecies are endemic to the state.

Note on speciation : The state supports twenty nine endemic species and subspecies (including indeterminate forms). They are presumed to have evolved locally (Sensu Roonwal & Verma (1997). The area supports dense vegetation (Tropical evergreen Temperate vegetation etc.), innumerable rivulets and streams flowing in the grooves and gorges of hills and valleys; there are a number of lakes, ponds and rivers; the rivers are torrentials and flow in the direction of ranges and forms water falls along the precipitous edges. In this way and by other ecological factors the whole area has been divided into several pockets. As a result the migration pressure becomes low. Moreover, after the formation of the Himalaya, odonates

which reached the area from different sources got enough diversity of ecological niches. As a result of which the competition became less and populations were divided into small groups containing populations of different sizes. Hence the population effects called into play and the intensity of variations increased and the process of speciation speeded up (Dubinin 1931; Dubinin & Romaschoff 1932; Dobzhansky 1951; Huxley 1963; Roonwal 1947, 1953, 1954; Wright 1931a, b; 1932; 1935; 1940a, b; 1946).

SUMMARY

The paper deals with the detailed geographical distribution of taxa occurring in Meghalaya state.

The paper discusses the contribution of each family in the composition of the fauna. It discusses the distribution pattern of the species, paths of faunal exchange and the causes of high rate of endemism.

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