

RECORDED DIVERSITY OF ODONATES FROM MAHARASHTRA, INDIA

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ABSTRACT – An updated species list of the Odonata fauna so far recorded from Maharashtra is provided along with the distribution within the State, in India and elsewhere. The list consists of 97 species/ subspecies belonging to 54 genera under 11 families.

Keywords: Odonata, consolidated list, district wise distribution, Maharashtra, India

INTRODUCTION

Odonata, popularly known as damsel and dragonflies, sometimes called only dragonflies, is an economically important primitive group of insects. Dragonflies, and their smaller relatives the damselflies, feeding on huge numbers of mosquitoes, flies, aphids, moths and other small insects, are helping to control populations of these pests. There are about 500 species / subspecies belonging to 140 genera under 17 families and 3 suborders distributed in India (Prasad and Varshney, 1995; Mitra, 2002).

Maharashtra is the third largest state in India both in area and population. It is located in the north western part of Peninsular India. Earlier records of Odonata from Maharashtra state date back to the works of Laidlaw (1917, 1919 and 1920) and Fraser (1920, 1921, 1924, 1933, 1934 and 1936) and later other workers (Bhasin, 1953; Mitra 1988; Prasad 1996). In recent years several species

are reported by Kulkarni *et al* (2002, 2004 and 2006a, b), Babu *et al* (2008) and Babu and Mandal (2009)) from Maharashtra. Prasad (1996) provided the consolidated list of Odonates of the State comprising 83 species. The present communication, an updated list of the Odonata species from Maharashtra is provided, which includes 97 species/ subspecies belonging to 54 genera of 11 families.

CONSOLIDATED LIST OF SPECIES AND DISTRIBUTION

The following is the consolidated list of species so far recorded from Maharashtra along with the district wise distribution within the state and also the distribution in other states of India and other countries. The district names, recorded only from literature are given with the particular references in parenthesis and rest based on the material examined by the authors.

SUBORDER : ZYGOPTERA

Superfamily : COENAGRIONOIDEA

Family : COENAGRIONIDAE

Genus : *Aciagrion* Selys

Aciagrion hisopa hisopa (Selys)

Distribution: Maharashtra: Nagpur. **Rest of India:** Karnataka, Kerala, Madhya Pradesh, Sikkim and West Bengal.

Elsewhere: Bangladesh, China, Japan, Malaysia, Myanmar, Nepal, Pakistan, Singapore, Sri Lanka, Thailand and Vietnam.

Aciagrion occidentale Laidlaw

Distribution: Maharashtra: Nagpur; Pune (Prasad, 1996). **Rest of India:** Goa, Kerala, Madhya Pradesh, Orissa and Southern India.

Elsewhere: Sri Lanka.

Aciagrion pallidum Selys

Distribution: Maharashtra: Nagpur, Satara. **Rest of India:** Eastern and Western Himalaya, Assam, Bihar, Orissa, Uttar Pradesh, Uttarakhand and Western Ghats.

Elsewhere: Kampuchea, Myanmar, Nepal, Thailand and Vietnam.

Genus : *Agriocnemis* Selys

***Agriocnemis femina femina* (Brauer)**

Distribution: **Maharashtra:** Sangli; Pune (Prasad, 1996). **Rest of India:** Assam, Great Nicobar, Manipur, and West Bengal.

Elsewhere: Australia, Bangladesh, China, Cuba, Java, Micronesia, Myanmar, New Guinea, Philippines, Singapore, Thailand and Vietnam.

***Agriocnemis lacteola* Selys**

Distribution: **Maharashtra:** Pune ; Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Arunachal Pradesh, Assam, Bihar, Goa, Madhya Pradesh, Meghalaya, Orissa, Sikkim, Tripura and West Bengal.

Elsewhere: Bangladesh, China, Hongkong, Nepal and Thailand.

***Agriocnemis pieris* Laidlaw**

Distribution: **Maharashtra:** Kolhapur. **Rest of India:** Arunachal Pradesh, Goa, Kerala, Madhya Pradesh, South India and West Bengal.

***Agriocnemis pygmaea* (Rambur)**

Distribution: **Maharashtra:** Ahmednagar, Aurangabad, Buldhana, Chandrapur, Jalgaon, Kolhapur, Mumbai, Nashik, Pune, Satara, Sindhudurg, Solapur, Thane; Raigad (Prasad, 1996); Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004). **Rest of India:** Arunachal Pradesh, Assam, Bihar, Goa, Kerala, Manipur, Mizoram, Nagaland, Nicobar Island, Orissa, Rajasthan, Sikkim, Southern India, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Afghanistan, Africa, Australia, Bangladesh, Bhama, China, Hong Kong, Indonesia, Japan, Kampuchea, Malaysia, Myanmar, Nepal, Pakistan, Palon, Philippines, Singapore, Sri Lanka, Taiwan and Thailand.

***Agriocnemis splendidissima* Laidlaw**

Distribution: **Maharashtra:** Mumbai, Pune ; Thane (Prasad, 1996). **Rest of India:** Assam, Bihar, Kerala, Orissa, South India, Tripura and West Bengal.

Elsewhere: Pakistan

Genus : *Cercion* Navas

***Cercion malayanum* (Selys)**

Distribution: **Maharashtra:** Nagpur, Pune , Yavatmal. **Rest of India:** Manipur, Rajasthan and West Bengal.

Elsewhere: China, Indonesia, Myanmar, Sri Lanka and Thailand.

Genus : *Ceriagrion* Selys

***Ceriagrion cerinorubellum* (Brauer)**

Distribution: **Maharashtra:** Nagpur, Yavatmal. **Rest of India:** Andamans, Bihar, Goa, Himachal Pradesh, Kerala, Karnataka, Madhya Pradesh, Orissa, Tripura and West Bengal.

Elsewhere: Bangladesh, Indonesia, Kampuchea, Malaysia, Myanmar, Pakistan, Singapore, Sri Lanka, Thailand and Vietnam.

***Ceriagrion coromandelianum* (Fabricius)**

Distribution: **Maharashtra:** Ahmednagar, Mumbai, Nagpur, Nashik, Kolhapur, Pune, Raigad, Satara, Solapur; Bhandara (Talmale & Kulkarni, 2003); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:**

Andhra Pradesh, Assam, Bihar, Goa, Gujarat, Kerala, Manipur, Madhya Pradesh, Meghalaya, Mizoram, Nagaland, Orissa, South India, Tripura, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Bangladesh, China, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand and Vietnam.

***Ceriagrion olivaceum* Laidlaw**

Distribution: **Maharashtra:** Nagpur, Pune ; Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andaman, Arunachal Pradesh, Assam, Kerala, Manipur, Madhya Pradesh, Meghalaya, Mizoram, Orissa, South India, Tripura, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, Kampuchea, Laos, Malaysia, Myanmar, Nepal, Thailand and Vietnam.

Genus : *Enallagma* Charpentier

***Enallagma parvum* Selys**

Distribution: **Maharashtra:** Nagpur, Nashik, Pune; Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Assam, Bihar, Manipur, Madhya Pradesh, Meghalaya, Orissa, Sikkim, South India,

Uttar Pradesh and West Bengal.

Elsewhere: Myanmar, Nepal, Pakistan, Sri Lanka and Thailand.

Genus : *Ischnura* Charpentier

***Ischnura aurora aurora* (Brauer)**

Distribution: **Maharashtra:** Ahmednagar, Aurangabad, Buldhana, Dhule, Jalgaon, Kolhapur, Nashik, Pune, Satara, Solapur; Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005) Chandrapur (Kulkarni *et al.*, 2006a), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Arunachal Pradesh, Assam, Bihar, Goa, Kerala, Manipur, Madhya Pradesh, Meghalaya, Mizoram, Nagaland, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Afghanistan, Australia, Bangladesh, China, Indonesia, Iran, Japan, Malaysia, Myanmar, Nepal, New Zealand, Pakistan, Philippines, Sri Lanka, Thailand and Taiwan.

***Ischnura senegalensis* (Rambur)**

Distribution: **Maharashtra:** Kolhapur, Mumbai, Nagpur, Nashik, Pune, Raigad, Satara, Solapur; Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Bihar, Chandigarh, Kerala, Manipur, Madhya Pradesh, Mizoram, Nagaland, Orissa, Rajasthan, South India and West Bengal.

Elsewhere: Afghanistan, Throughout African continent, Bangladesh, China, Egypt, Hong Kong, Indonesia, Japan, Kampuchea, Malaysia, Myanmar, Oman, Pakistan, Philippines, Sri Lanka, Thailand, Taiwan and Vietnam.

Genus : *Pseudagrion* Selys

***Pseudagrion decorum* (Rambur)**

Distribution: **Maharashtra:** Kolhapur, Nagpur, Pune, Raigad; Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a); Mumbai (Kulkarni *et al.*, 2006b).

Rest of India: Bihar, Kerala, Madhya Pradesh, Orissa, South India, Uttarakhand and West Bengal.

Elsewhere: Bangladesh, Myanmar, Nepal, Oman, Pakistan, Sri Lanka.

***Pseudagrion hypermelas* Selys**

Distribution: **Maharashtra:** Wardha. **Rest of India:** Bihar, Gujarat, Madhya Pradesh, Punjab and West Bengal.

Elsewhere: Pakistan

***Pseudagrion microcephalum* (Rambur)**

Distribution: **Maharashtra:** Wardha; Amravati (Kulkarni *et al.*, 2002; Kulkarni & Prasad, 2005). **Rest of India:** Assam, Goa, Kerala, Madhya Pradesh, Orissa, South India, Uttar Pradesh and West Bengal.

Elsewhere: Australia, Bangladesh, China, Indonesia, Japan, Malaysia, Myanmar, Nepal, Papua New-Guinea, Philippines, Singapore, Solomon Is., Sri Lanka, Taiwan, Thailand and Vietnam.

***Pseudagrion rubriceps rubriceps* Selys**

Distribution: **Maharashtra:** Aurangabad, Dhule, Nashik, Satara, Sindhudurg, Wardha; Pune (Prasad, 1996); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Assam, Bihar, Chandigarh, Kerala, Madhya Pradesh, Meghalaya, Orissa, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Indonesia, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Taiwan and Thailand.

***Pseudagrion spencei* Fraser**

Distribution: **Maharashtra:** Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Assam, Bihar, Chandigarh, Meghalaya, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, Hong Kong, Nepal, Pakistan.

Genus : ***Rhodischnura*** Laidlaw

***Rhodischnura nursei* (Morton)**

Distribution: **Maharashtra:** Pune; Nagpur (Kulkarni *et al.*, 2004), Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Bihar, Gujarat, Madhya Pradesh, Orissa, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Bangladesh and Pakistan.

Family : PLATYCNEMIDIDAE

Genus : *Copera* Kirby

***Copera ciliata* (Selys)**

Distribution: **Maharashtra:** Nagpur (Kulkarni *et al.*, 2004), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Assam, Himachal Pradesh, Manipur, Meghalaya, Nicobar, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Indonesia, Japan, Malaysia, Taiwan, Thailand and Vietnam.

***Copera marginipes* (Rambur)**

Distribution: **Maharashtra:** Buldhana, Mumbai, Nagpur, Osmanabad, Pune, Satara, Sindhudurg, Wardha; Bhandara (Talmale & Kulkarni, 2003); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a).

Rest of India: Andamans, Assam, Bihar, Chandigarh, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Rajasthan, Tamil Nadu, Uttarakhand and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Malaysia, Myanmar, Nepal, Sri Lanka, Taiwan, Thailand and Vietnam.

***Copera vittata deccanensis* Laidlaw**

Distribution: **Maharashtra:** Pune; Nagpur (Kulkarni *et al.*, 2004), Chandrapur (Kulkarni *et al.*, 2006a), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Karnataka, Kerala and Tamil Nadu.

Family : PLATYSTICTIDAE

Genus : *Protosticta* Selys

***Protosticta gravelyi* Laidlaw**

Distribution: **Maharashtra :** Kolhapur. **Rest of India:** Kerala and Western Ghats.

Family : PROTONEURIDAE

Genus : *Disparoneura* Selys

***Disparoneura quadrimaculata* (Rambur)**

Distribution: **Maharashtra:** Ahmednagar, Pune, Raigad; Satara (Fraser, 1936; Prasad, 1996); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005), Chandrapur (Kulkarni *et al.*, 2006a), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Bihar, Delhi, Karnataka, Madhya Pradesh, Rajasthan and West Bengal.

Genus : *Elatoneura* Cowley

***Elatoneura nigerrima* (Laidlaw)**

Distribution: **Maharashtra:** Akola, Chandrapur, Nanded, Solapur; Pune (Fraser, 1924; Prasad, 1996). **Rest of India:** Central and Western India.

Superfamily : LESTOIDEA

Family : LESTIDAE

Genus : *Lestes* Leach

***Lestes elatus* Hagen**

Distribution: **Maharashtra:** Nagpur. **Rest of India:** Goa, Karnataka, Kerala, Madhya Pradesh, Orissa and Tamil Nadu.

Elsewhere: Sri Lanka.

***Lestes umbrinus* Selys**

Distribution: **Maharashtra:** Aurangabad, Dhule, Nagpur; Bhandara (Talmale & Kulkarni, 2003). **Rest of India:** Andhra Pradesh, Bihar, Chandigarh, Gujarat, Madhya Pradesh, Orissa, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Iran and Myanmar.

***Lestes viridulus* Rambur**

Distribution: **Maharashtra:** Bhandara, Nagpur, Kolhapur, Satara, Solapur; Mumbai (Fraser, 1936), Amravati (Kulkarni & Prasad, 2005), Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Bihar, Chandigarh, Karnataka, Himachal Pradesh, Madhya Pradesh, Rajasthan, Uttar Pradesh and Uttarakhand.

Elsewhere: Myanmar.

Superfamily : CALOPTERYGOIDEA

Family : CALOPTERYGIDAE

Genus : *Neurobasis* Selys

***Neurobasis chinensis chinensis* (Linnaeus)**

Distribution: **Maharashtra :** Nagpur. **Rest of India:** Arunachal Pradesh, Assam, Kerala, Karnataka, Manipur, Manipur, Mizoram, Nagaland, Tamil Nadu, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Indo-China, Indonesia, Laos, Malaysia, Myanmar, Nepal, Philippines, Sri Lanka, Thailand and Vietnam.

Genus : *Vestalis* Selys

***Vestalis apicalis apicalis* Selys**

Distribution: Maharashtra: Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Assam, Kerala, Orissa, Western and Eastern Ghats and West Bengal.

Elsewhere: Myanmar.

***Vestalis gracilis gracilis* (Rambur)**

Distribution: Maharashtra: Mumbai. **Rest of India:** Andamans, Arunachal Pradesh, Assam, Eastern Ghats, Goa, Kerala, Madhya Pradesh, Manipur, Tripura, Western Ghats and West Bengal.

Elsewhere: Bangladesh, Kampuchea, Laos, Malaysia, Myanmar, Nepal, Thailand, Tibet and Vietnam.

Family : CHLOROCYPHIDAE

Genus : *Libellago* Selys

***Libellago lineata indica* (Fraser)**

Distribution: Maharashtra: Ahmednagar, Chandrapur, Nanded, Nashik, Pune. **Rest of India:** Karnataka and Kerala.

Elsewhere: Myanmar and Sri Lanka.

***Libellago lineata lineata* (Burmeister)**

Distribution: Maharashtra: Pune, Sindhurg, Wardha. **Rest of India:** Arunachal Pradesh, Assam, Madhya Pradesh, Manipur, Nicobar Islands, Rajasthan, Tripura, Uttarakhand and West Bengal.

Elsewhere: China, Indonesia, Laos, Malaysia, Myanmar, Nepal, Philippines, Taiwan, Thailand and Vietnam.

Genus : *Rhinocypha* Rambur

***Rhinocypha bisignata* (Selys)**

Distribution: Maharashtra: Pune. **Rest of India:** Kerala, Orissa and South India.

***Rhinocypha trifasciata* (Selys)**

Distribution: Maharashtra: Nagpur. **Rest of India:** Himachal Pradesh, Madhya Pradesh, Uttar Pradesh, Uttarakhand and West Bengal.

Elsewhere: Nepal.

Suborder : ANISOPTERA

Superfamily : AESHNOIDEA

Family : GOMPHIDAE

Genus : *Anormogomphus* Selys

***Anormogomphus heteropterus* Selys**

Distribution: Maharashtra: Aurangabad. **Rest of India:** Arunachal Pradesh, Bihar, Himachal Pradesh, Orissa, Punjab, Uttarakhand.

Elsewhere: Pakistan

Genus : *Burmogomphus* Williamson

***Burmogomphus pyramidalis pyramidalis* Laidlaw**

Distribution: Maharashtra: Pune (Fraser, 1936). **Rest of India:** Chandigarh, Himachal Pradesh, Jammu & Kashmir, Uttar Pradesh and Western Ghats.

Elsewhere: Nepal

Genus : *Cyclogomphus* Selys

***Cyclogomphus heterostylus* Selys**

Distribution: Maharashtra: Pune (Fraser, 1936). **Rest of India:** Tamil Nadu, Uttar Pradesh and West Bengal.

***Cyclogomphus vesiculosus* Selys**

Distribution: Maharashtra (Prasad, 1996). **Rest of India:** Madhya Pradesh.

***Cyclogomphus wilkinsi* Fraser**

Distribution: Maharashtra: Pune. **Rest of India:** Karnataka.

***Cyclogomphus ypsilon* Selys**

Distribution: Maharashtra: Pune (Fraser, 1936). **Rest of India:** Central India

Genus : *Gomphidia* Selys

***Gomphidia T-nigrum* Selys**

Distribution: **Maharashtra:** Ahmednagar. **Rest of India:** Andaman & Nicobar Islands and Assam.

Genus : *Macrogomphus* Selys***Macrogomphus annulatus* (Selys)**

Distribution: **Maharashtra:** Pune. **Rest of India:** Western Ghats.

Genus : *Microgomphus* Selys***Microgomphus torquatus* (Selys)**

Distribution: **Maharashtra:** Pune , Satara (Fraser, 1936)

***Microgomphus verticalis* (Selys)**

Distribution: **Maharashtra :** Pune (Fraser, 1919; Prasad, 1996). **Rest of India:** Central India .

Genus : *Onychogomphus* Selys***Onychogomphus grammicus* (Rambur)**

Distribution: **Maharashtra:** Pune. **Rest of India:** Uttar Pradesh.

Genus : *Paragomphus* Cowley***Paragomphus lineatus* (Selys)**

Distribution: **Maharashtra:** Pune, Satara, Sindhudurg, Thane; Nagpur (Kulkarni *et al.*, 2004) ; Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006). **Rest of India:** Andhra Pradesh, Arunachal Pradesh, Bihar, Haryana, Himachal Pradesh, Karnataka, Meghalaya, Orissa, Sikkim, Uttarakhand, Tamil Nadu, Tripura and West Bengal.

Elsewhere: Myanmar, Nepal, Sri Lanka and Turkey.

Genus : *Ictinogomphus* Cowley***Ictinogomphus rapax* (Rambur)**

Distribution: **Maharashtra:** Jalna, Solapur ; Pune (Prasad, 1996); Nagpur (Kulkarni *et al.*, 2004); Chandrapur (Kulkarni *et al.*, 2006a), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Throughout India

Elsewhere: Bangladesh, China, Myanmar and Nepal.

Family : AESHNIDAE**Genus : *Anax* Leach*****Anax guttatus* (Burmeister)**

Distribution: **Maharashtra:** Nagpur; Pune (Prasad, 1996). **Rest of India:** Andaman Island, Arunachal Pradesh, Assam, Karnataka, Madhya Pradesh, Orissa, Punjab, Tamil Nadu, Uttarakhand and West Bengal.

Elsewhere: Africa, Australia, Indonesia, Japan, Myanmar, Sri Lanka and Taiwan.

***Anax immaculifrons* Rambur**

Distribution: **Maharashtra:** Pune, Satara; Nagpur (Kulkarni *et al.*, 2004); Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Bihar, Chandigarh, Eastern Ghats, Sikkim, West Bengal and Western Himalaya.

Elsewhere: Hong Kong and Sri Lanka.

Genus : *Gynacantha* Rambur***Gynacantha bayadera* Selys**

Distribution: **Maharashtra:** Mumbai, Pune; Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Great Nicobar, Madhya Pradesh, Meghalaya, Nagaland, Sikkim and West Bengal.

Elsewhere: Celebes, China, Indonesia, Java, Malaysia, Myanmar, New Guinea, Philippines and Thailand.

Genus : *Hemianax* Selys***Hemianax ephippiger* (Burmeister)**

Distribution: **Maharashtra:** Mumbai. **Rest of India:** Assam, Gujarat, Karnataka, Kerala, Orissa, Rajasthan, Tamil Nadu, Uttarakhand and West Bengal.

Elsewhere: Angola, Baluchistan, China, Corcica, Ethiopea, Garambe National Park, Germany, Greece, France, Iraq, Kimbe, Kusunga, Macambique, Madagascar, Malawi, Mauretania, Morocco Sahara, Ngamiland, Nyasaland, Somaliland, Spain, Switzerland, Tanzania and Zambezi River.

Superfamily : LIBELLULOIDEA**Family : CORDULIIDAE**

Genus : *Epopthalmia* Burmeister***Epopthalmia frontalis frontalis* Selys**

Distribution: **Maharashtra:** Pune (Fraser, 1919; Prasad, 1996). **Rest of India:** Assam, Orissa, and Western Himalaya.

Elsewhere: Malaysia, Nepal and Thailand.

***Epopthalmia vittata vittata* Burmeister**

Distribution: **Maharashtra:** Pune; Nagpur (Kulkarni *et al.*, 2004). **Rest of India:** Bihar, Tamil Nadu, Uttarakhand and West Bengal.

Elsewhere: Tibet.

Genus : *Hemicordulia* Selys***Hemicordulia asiatica* Selys**

Distribution: **Maharashtra** (Prasad, 1996). **Rest of India:** Assam, Meghalaya, Karnataka, Tamil Nadu and West Bengal.

Elsewhere: Malawi, Myanmar, Sri Lanka and Uganda.

Genus : *Macromia* Rambur***Macromia flavicineta* Selys**

Distribution: **Maharashtra:** Pune, Satara (Fraser, 1936). **Rest of India:** West Bengal.

Elsewhere: Bangladesh.

Family : LIBELLULIDAE**Genus : *Acisoma* Rambur*****Acisoma panorpoides panorpoides* Rambur**

Distribution: **Maharashtra:** Mumbai, Pune, Raigad, Kolhapur, Ahmednagar; Nagpur (Kulkarni *et al.*, 2004); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chandigarh, Great Nicobar Island, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Indonesia, Japan, Malayan Archipelago, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Taiwan and Thailand.

Genus : *Brachydiplax* Brauer***Brachydiplax sobrina* (Rambur)**

Distribution: **Maharashtra:** Kolhapur, Nashik; Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andhra Pradesh, Assam, Bihar, Chandigarh, Himachal Pradesh, Karnataka, Meghalaya, Nagaland, Orissa, Rajasthan, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh, and West Bengal.

Elsewhere: Bangladesh, Myanmar, Nepal, Sri Lanka and Thailand.

Genus : *Brachythemis* Brauer***Brachythemis contaminata* (Fabricius)**

Distribution: **Maharashtra:** Mumbai, Ratnagiri, Kolhapur, Satara, Pune, Nashik, Raigad, Nagpur, Buldhana, Solapur, Osmanabad, Thane, Chandrapur; Bhandara (Talmale & Kulkarni, 2003); Amravati (Kulkarni & Prasad, 2005). **Rest of India:** Andhra Pradesh, Assam, Bihar, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Manipur, Meghalaya, Madhya Pradesh, Nicobar Island, Orissa, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Hongkong, Indonesia, Japan, Laos, Malaysia, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Taiwan, Thailand and Vietnam.

Genus : *Bradinopyga* Kirby***Bradinopyga geminata* (Rambur)**

Distribution: **Maharashtra:** Mumbai, Pune, Satara, Nashik, Akola; Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005), Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andhra Pradesh, Bihar, Delhi, Madhya Pradesh, Orissa, Peninsular India, Sikkim, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Sri Lanka and Thailand.

Genus : *Cratilla* Kirby***Cratilla lineata calverti* Forster**

Distribution: **Maharashtra:** Pune; Nashik (Prasad, 1996). **Rest of India:** Andaman, Arunachal Pradesh, Orissa, Uttarakhand, West Bengal and Western Ghats.

Elsewhere: China, Indonesia, Malaysia, Myanmar, Nepal, New Guinea, Philippines, Singapore, Sri Lanka and Thailand.

Genus : *Crocothemis Brauer*

***Crocothemis servilia servilia* (Drury)**

Distribution: Mumbai, Pune, Thane, Nashik, Raigad, Kolhapur, Nagpur, Osmanabad, Solapur, Jalgaon, Buldhana, Satara; Bhandara (Talmale & Kulkarni, 2003) ; Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006). **Rest of India:** Throughout India.

Elsewhere: Africa, America, Australia, Bangladesh, China, Iraq, Indonesia, Japan, Korea, Malaysia, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Taiwan, Thailand and Turkey.

Genus : *Diplacodes Kirby*

***Diplacodes lefebvrei* (Rambur)**

Distribution: **Maharashtra:** Wardha (Prasad, 1996). **Rest of India:** Chandigarh, South India, Rajasthan, Uttarakhand and Uttar Pradesh.

Elsewhere: Nepal.

***Diplacodes nebulosa* (Fabricius)**

Distribution: **Maharashtra:** Buldhana; Chandrapur (Kulkarni *et al.*, 2006). **Rest of India:** Andhra Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Madhya Pradesh, Meghalaya, Orissa, Rajasthan, Sikkim, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Australia, China, Indonesia, Malacca, Malaysia (West), Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Thailand.

***Diplacodes trivialis* (Rambur)**

Distribution: **Maharashtra:** Ahmednagar, Aurangabad, Mumbai, Pune, Satara, Thane, Raigad, Nagpur, Wardha, Solapur, Kolhapur, Ratnagiri, Osmanabad; Bhandara (Talmale & Kulkarni, 2003); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006). **Rest of India:** Throughout India.

Elsewhere: Australia, Bangladesh, China, Indonesia, Japan, Malaysia, Myanmar, Nepal, Philippines, Sri Lanka, Taiwan and Thailand.

Genus : *Hydrobasileus Kirby*

***Hydrobasileus croceus* (Brauer)**

Distribution: **Maharashtra:** Pune (Fraser, 1936). **Rest of India:** Andhra Pradesh, Assam, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Orissa and Rajasthan.

Elsewhere: Bangladesh, China, Hong Kong, Indonesia, Japan, Kampuchea, Malaysia, Myanmar, Philippines, Singapore, Sri Lanka, Taiwan, Thailand and Vietnam.

Genus : *Indothemis Ris*

***Indothemis limbata limbata* (Selys)**

Distribution: **Maharashtra:** Pune. **Rest of India:** Arunachal Pradesh, Assam, Mizoram, Orissa, Karnataka and West Bengal.

Elsewhere: Malaysia, Myanmar, Singapore and Thailand.

Genus : *Lathrecista Kirby*

***Lathrecista asiatica asiatica* (Fabricius)**

Distribution: **Maharashtra:** Kolhapur; Chandrapur (Kulkarni *et al.*, 2006a); Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Andamans, Arunachal Pradesh, Assam, Bihar, Madhya Pradesh, Manipur, Nagaland, Orissa, South India and West Bengal.

Elsewhere: China, Fiji, Indonesia, Japan, Malaysia, Myanmar, Philippines, Papua New Guinea, Samoa, Singapore, Sri Lanka, Taiwan and Thailand .

Genus : *Neurothemis Brauer*

***Neurothemis fulvia* (Drury)**

Distribution: **Maharashtra:** Nashik, Pune ; Raigad (Prasad, 1996). **Rest of India:** Throughout India.

Elsewhere: Australia, Bangladesh, China, Hong Kong, Iraq, Indonesia, Japan, Malaysia, Nepal, Philippines,

Seychelles, Sri Lanka, Nepal, Myanmar, Taiwan and Thailand.

***Neurothemis intermedia intermedia* (Rambur)**

Distribution: **Maharashtra:** Kolhapur, Pune, Satara; Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Throughout India.

Elsewhere: Bangladesh, China, Myanmar, Malaysia, Nepal, Sri Lanka and Thailand.

***Neurothemis tullia tullia* (Drury)**

Distribution: **Maharashtra:** Kolhapur, Sindhudurg; Pune (Prasad, 1996); Nagpur (Kulkarni *et al.*, 2004); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Nagaland, Orissa, Rajasthan, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Malaysia, Sri Lanka, Taiwan and Thailand.

Genus : *Orthetrum* Newman

***Orthetrum anceps* (Schneider)**

Distribution: **Maharashtra:** Nashik, Pune, Satara. **Rest of India:** Arunachal Pradesh, Himachal Pradesh, Mizoram, Sikkim, Uttarakhand and West Bengal.

Elsewhere: Asia Minor, Egypt, North Africa coast, Pakistan, Persia, Rumania and Sicily.

***Orthetrum chrysis* (Selys)**

Distribution: **Maharashtra** (Prasad, 1996). **Rest of India:** Assam, Himachal Pradesh, Orissa, South Andaman Islands, Western Ghats and West Bengal.

Elsewhere: Australia, China, Hong Kong, Indonesia, Japan, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan and Thailand.

***Orthetrum glaucum* (Brauer)**

Distribution: **Maharashtra:** Kolhapur, Nagpur, Ratnagiri, Raigad, Sangli; Pune (Prasad, 1996); Amravati (Kulkarni & Prasad, 2005), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Throughout India.

Elsewhere: China, Hong Kong, Indonesia, Japan, Malaysia, Myanmar, Nepal, Philippines, Sri Lanka, Taiwan, Thailand and Vietnam.

***Orthetrum japonicum internum* MacLachlan**

Distribution: **Maharashtra:** Nagpur. **Rest of India:** Arunachal Pradesh, Assam, Himachal Pradesh, Kashmir, Meghalaya, Nagaland, Uttarakhand and West Bengal.

Elsewhere: Bangladesh, China, Japan, Korea, Myanmar, Nepal, Pakistan, Philippines, Taiwan, Thailand and Vietnam.

***Orthetrum luzonicum* (Brauer)**

Distribution: **Maharashtra:** Akola, Nashik, Pune; Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Arunachal Pradesh, Assam, Himachal Pradesh, Madhya Pradesh, Meghalaya, Nagaland, Orissa, Sikkim, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Afghanistan, Bangladesh, China, Hong Kong, Indonesia, Japan, Malaysia, Myanmar, Nepal, Philippines, Sri Lanka, Taiwan, Thailand and Vietnam.

***Orthetrum pruinosum neglectum* (Rambur)**

Distribution: **Maharashtra:** Nagpur, Nashik, Pune, Raigad, Ratnagiri, Satara, Sindhudurg, Wardha; Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a); Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Andaman Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu- Kashmir, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Rajasthan, Sikkim, South India, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Afghanistan, Bangladesh, China, Hong Kong, Indonesia, Japan, Laos, Malaysia, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Taiwan, Thailand and Vietnam.

***Orthetrum sabina sabina* (Drury)**

Distribution: **Maharashtra:** Ahmednagar, Aurangabad, Buldhana, Kolhapur, Mumbai, Nagpur, Nashik, Osmanabad, Pune, Raigad, Ratnagiri, Sangli., Satara, Solapur; Bhandara (Talmale & Kulkarni, 2003); Amravati (Kulkarni & Prasad, 2005), Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andaman Islands, Andhra Pradesh,

Arunachal Pradesh, Assam, Bihar, Goa, Great Nicobar Island, Gujarat, Himachal Pradesh, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Rajasthan, Sikkim, South India, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Afghanistan, Australia, Bangladesh, China, Cyprus, Hong Kong, Indonesia, Iran, Iraq, Japan, Laos, Malaysia, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Syria, Taiwan, Thailand, Turkey, Vietnam, Yunnan, and most of the African continent.

***Orthetrum taeniolatum* (Schneider)**

Distribution: **Maharashtra:** Ahmednagar, Buldhana, Nagpur, Osmanabad, Pune, Ratnagiri, Satara, Thane, Wardha; Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a); Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Arunachal Pradesh, Bihar, Gujarat, Himachal Pradesh, Madhya Pradesh, Nagaland, Rajasthan, Sikkim, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Countries bordering Mediterranean and Greece, Nepal, Sri Lanka and Turkey.

***Orthetrum testaceum testaceum* (Burmeister)**

Distribution: **Maharashtra:** Pune. **Rest of India:** Arunachal Pradesh and Orissa.

Elsewhere: Bangladesh, China, Indonesia, Malaysia, Myanmar, Philippines, Singapore, Taiwan, Thailand and Vietnam.

Genus : *Palpopleura* Rambur

***Palpopleura sexmaculata sexmaculata* (Fabricius)**

Distribution: **Maharashtra:** Kolhapur. **Rest of India:** Arunachal Pradesh, Assam, Himachal Pradesh, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, South India, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Afghanistan, China, Hong Kong, Laos, Malaysia, Myanmar, Nepal, Sri Lanka, Thailand and Vietnam.

Genus : *Pantala* Hagen

***Pantala flavescens* (Fabricius)**

Distribution: **Maharashtra:** Aurangabad, Dhule, Jalna, Mumbai, Nashik, Pune, Raigad, Sangli, Satara, Sindhudurg, Solapur, Yavatmal; Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andaman & Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chattisgarh, Goa, Gujarat, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Cosmopolitan (throughout the tropical and sub-tropical belts of the world).

Genus : *Potamarcha* Karsch

***Potamarcha congener* (Rambur)**

Distribution: **Maharashtra:** Akola, Kolhapur, Osmanabad, Pune, Sangli; Nashik (Prasad, 1996); Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006); Mumbai (Kulkarni *et al.*, 2006). **Rest of India:** Andhra Pradesh, Arunachal Pradesh, Assam, Goa, Himachal Pradesh, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Orissa, Sikkim, South Andaman Islands, South India, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Australia, Bangladesh, China, Hong Kong, Indonesia, Kampuchea, Laos, Malaysia, Myanmar, Nepal, Philippines, Sri Lanka, Taiwan, Thailand and Vietnam.

Genus : *Rhyothemis* Hagen

***Rhyothemis variegata variegata* (Linnaeus)**

Distribution: **Maharashtra:** Ahmednagar, Kolhapur; Pune (Prasad, 1996); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andaman Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Himachal Pradesh, Madhya Pradesh, Manipur, Meghalaya, Orissa, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Malaysia, Myanmar, Nepal, Sri Lanka, Vietnam and Yunnan.

Genus : *Tetrathemis* Brauer

***Tetrathemis platyptera* Selys**

Distribution: **Maharashtra** (Prasad, 1996). **Rest of India:** Arunachal Pradesh, Meghalaya, South India, Uttarakhand and West Bengal.

Elsewhere: China, Indonesia, Malaysia, Myanmar and Thailand.

Genus : *Tramea* Hagen

***Tramea basilaris burmeisteri* Kirby**

Distribution: **Maharashtra:** Akola, Jalna, Pune, Sangli; Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andhra Pradesh, Bihar, Himachal Pradesh, Madhya Pradesh, Meghalaya, Orissa, Rajasthan, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Japan, Malaysia, Myanmar, Nepal, Thailand, Tibet and Vietnam.

***Tramea limbata similata* (Rambur)**

Distribution: **Maharashtra:** Pune. **Rest of India:** Assam and South India.

Elsewhere: Nepal and Sri Lanka.

***Tramea virginia* (Rambur)**

Distribution: **Maharashtra:** Mumbai, Raigad ; Nagpur (Kulkarni *et al.*, 2004). **Rest of India:** Andaman Islands, Bihar, Great Nicobar Island, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Mizoram, Orissa, Tamil Nadu, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Indonesia, Japan, Kampuchea, Malaysia, Myanmar, Taiwan, Thailand and Vietnam.

Genus : *Tholymis* Hagen

***Tholymis tillarga* (Fabricius)**

Distribution: **Maharashtra:** Bhandara (Talmale & Kulkarni, 2003), Nagpur (Kulkarni *et al.*, 2004), Chandrapur (Kulkarni *et al.*, 2006a), Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Goa, Himachal Pradesh, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: America, Australia, Bangladesh, Cameroon, China, Ethiopia, Indonesia, Japan, Kampuchea, Laos, Madagascar, Malaysia, Malawi, Micronesia, Mozambique, Myanmar, Nepal, Philippines, Somali, Sri Lanka, Taiwan, Tanzania, Thailand and Vietnam.

Genus : *Trithemis* Brauer

***Trithemis aurora* (Burmeister)**

Distribution: **Maharashtra:** Ahmednagar, Akola, Aurangabad, Buldhana, Chandrapur, Dhule, Jalgaon, Kolhapur, Mumbai, Nagpur, Nashik, Osmanabad, Pune, Raigad, Ratnagiri, Sangli, Satara, Sindhudurg, Thane, Wardha, Yavatmal; Bhandara (Talmale & Kulkarni, 2003) ; Amravati (Kulkarni & Prasad, 2005). **Rest of India:** Throughout India.

Elsewhere: China, Hong Kong, Indonesia, Japan, Kampuchea, Laos, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan, Thailand, Timor, and Vietnam.

***Trithemis festiva* (Rambur)**

Distribution: **Maharashtra:** Buldhana, Kolhapur, Nanded, Nashik, Pune, Raigad, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Thane, Wardha, Yavatmal; Bhandara (Talmale & Kulkarni, 2003); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005); Chandrapur (Kulkarni *et al.*, 2006a); Mumbai (Kulkarni *et al.*, 2006b). **Rest of India:** Andaman Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Orissa, Rajasthan, Sikkim, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Afghanistan, China, Cyprus, Hong Kong, Indonesia, Iran, Kampuchea, Laos, Malaysia, Myanmar, Nepal, New Guinea, Philippines, Singapore, Taiwan, Thailand, Turkey and Vietnam.

***Trithemis kirbyi kirbyi* Selys**

Distribution: **Maharashtra:** Akola, Satara, Thane; Pune (Prasad, 1996); Nagpur (Kulkarni *et al.*, 2004); Amravati (Kulkarni & Prasad, 2005). **Rest of India:** Himachal Pradesh, South India and Uttarakhand.

Elsewhere: Sri Lanka.

***Trithemis pallidinervis* (Kirby)**

Distribution: **Maharashtra:** Kolhapur, Mumbai, Nagpur, Osmanabad; Pune (Prasad, 1996); Chandrapur (Kulkarni *et al.*, 2006a). **Rest of India:** Andhra Pradesh, Assam, Bihar, Gujarat, Himachal Pradesh, Madhya Pradesh, Meghalaya, Nagaland, Orissa, Rajasthan, South India, Tripura, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: China, Indonesia, Malaysia, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Taiwan and Thailand.

Genus : *Urothemis* Brauer***Urothemis signata signata* (Rambur)**

Distribution: **Maharashtra:** Kolhapur. **Rest of India:** Assam, Manipur, Meghalaya, Orissa, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: China, Malaysia, Myanmar, Nepal, Sri Lanka, Thailand and Vietnam.

Genus : *Zyxomma* Rambur***Zyxomma petiolatum* Rambur**

Distribution: **Maharashtra:** Pune; Bhandara (Talmale & Kulkarni, 2003); Chandrapur (Kulkarni *et al.*, 2006). **Rest of India:** Andaman Islands, Himachal Pradesh, South India, Uttarakhand, Uttar Pradesh and West Bengal.

Elsewhere: Bangladesh, China, Hong Kong, Indonesia, Japan, Malaysia, Myanmar, Philippines, Singapore, Sri Lanka, Taiwan, Thailand and Vietnam.

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