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Checklist of the Marine and Estuarine Brachyuran Crabs (Crustacea: Decapoda: Brachyura) of Andhra Pradesh, India

J. S. Yogesh Kumar a*, Arya Sen a and Pradip Panda a

^a Zoological Survey of India, Sunderban Regional Centre, Canning – 743329, West Bengal, India.

Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

Article Information

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ABSTRACT

An account of the brachyuran crab diversity along the Andhra Pradesh coast of India has been represented in this communication. The checklist of brachyuran crabs has been prepared for the state of Andhra Pradesh based on reviews and compilation of published research works for this particular region. A total of 156 species belonging to 91 genera and 33 families have been listed here from Andhra Pradesh. Visakhapatnam showed the highest diversity with 86 species in all the marine areas and Vizianagaram has the lowest diversity recorded from the state with one species. Although the study on the brachyurans from Andhra Pradesh had been started from early 1800 but recent works on brachyurans from Andhra Pradesh is lacking and with a focused study from the area would help in exploration of brachyuran's diversity from the east coast of India.

Keywords: Andhra Pradesh; brachyuran crab; checklist; crustacean diversity; estuary; India; marine.

1. INTRODUCTION

India being a mega-diversity country harbors various kinds of habitats. The southern part of India is characterized by a 7,516.6 km long coastline starting from the state of West Bengal on the east coast and ending in Gujarat on the west coast of India [1]. A total of 2,019 km long coastline covered the east coast of India including four major states starting from West Bengal and then Orissa, Andhra Pradesh, and Tamil Nadu at the western side of the Bay of Bengal [2].

Crustaceans are a diverse group. In particular. the order Decapoda represents a highly diverse order of malacostracan crustaceans. 7620 brachyuran species from 104 genera are present globally [3-5]. In India, 910 marine brachyuran crabs are reported, belonging to 361 genera and 62 families. Family Portunidae, Leucosiidae, Sesarmidae. Parthenopidae. Ocypodidae, Inachidae. Dromiidae. Pinnotheridae. Varunidae. and Macrophthalmidae represent the greatest diversity [6]. From north Andaman, Kumaralingam et al. [7] have reported brachyuran crabs of 47 species belonging to 24 genera, 10 families. Dev Roy & Nandi [8] reported altogether 150 species of brachyuran crabs under 84 genera and 29 families from West Bengal. Pati et al. [9] reported brachyuran crabs account for 82 species in 55 genera from Maharashtra. Dev Roy [10] reported crab diversity in Kerala coasts (93 species) followed by Maharashtra (92 species), Gujarat (66 species), Karnataka (53 species) and Goa (51 species). Jeyabaskaran et al. [11] reported 106 brachyuran species from the Gulf of Mannar. Beleem et al. [12] reported 152 species belonging to 87 genera and 29 families of marine brachyuran crabs from Gujarat. A maximum number of species is reported from Andaman and Nicobar Islands (588 species) followed by Tamil Nadu (451 species), Kerala (183 species), Orissa (161 species), West Bengal (158 species), Lakshadweep Islands (155 species), Gujarat (147 species), Maharashtra (130 species), Andhra Pradesh (121 species), Goa (82 species) and Karnataka (82 species) [6,13].

Andhra Pradesh shows typical habitat heterogeneity with the presence of reef patches, rocky outcrops, and plain interspaces with sandy beaches, which are very peculiar habitats for crustaceans, particularly brachyuran crabs [1].

Thus the crab diversity of Andhra Pradesh is always in the spotlight for researchers and these studies started way back from the monumental work by Alcock in 1894 to 1901, which reported a total of 37 species from Andhra Pradesh [14-21]. 1894, Alcock & Anderson reported four crab species from Andhra Pradesh: in 1895 eight species; in 1896 four species; in 1898 two species; in 1899 seven species; in 1900 eleven species; in 1901 one species [22-24,20,21]. Devi [25] studied the biology and fishery of four crabs from the Kakinada region namely, Scylla serrata (Forskal, 1775); Portunus pelagicus (Linnaeus, 1758); Portunus sanguinolentus (Herbst, 1783); Charybdis feriata (Linnaeus, 1758). Devi et al. [26] have done studies on brachvuran crab diversity of Visakhapatnam coast recorded Pinnotheres latreillii Leach, 1815, from Andhra Pradesh for the first time; which has been currently accepted as Pinnotheres pisum (Linnaeus, 1767). Galil et al. [27] in their genus revision of Matuta, recorded Matuta victor (Fabricius, 1781) from Andhra Pradesh. Dev Roy & Bhadra [28,29] respectively reported 20 and 21 species of estuarine and mangrove crabs from the estuaries of Andhra Pradesh. Dev Roy & Bhadra [29] published 103 species in the Fauna of Andhra Pradesh. Dev Dev Roy & Nandi recorded 1 coral reef-associated crab and 106 species of brachyuran crabs belonging to 7 genera and 17 families from Andhra Pradesh in 2005 and 2007 respectively [30,31]. Rath & Dev Roy [32] reported 35 species from Krishna Estuary. Krishnamurthy [33] reported two brachyuran species from the collection of marine biological centre, which were collected from Andhra Pradesh, 17 species of marine estuarine crabs had been recorded from Vamsadhara and Nagavali estuaries, Srikakulam, Andhra Pradesh by Rath & Dev Roy [34]. Dev Roy [35] mentioned five species from AP regarding crustacean faunal conservation aspects. Chakravarty et al. [36] studied the crab diversity of Tekkali Creek and reported 15 crab species. The most recent compilation work on brachyuran crabs has been done by Trivedi et al. [6], which records 121 species under 67 genera and 27 families from the Andhra Pradesh coast. Chakraborty [37] studied the comparative evaluation of Scylla species collected from Andhra Pradesh. Sasikala et al. [38] studied the by-catch crustacean diversity of Visakhapatnam harbor recorded 9 species of trash brachyurans. Most recently, Roy & Chakraborty [2] have done studies on P. pelagicus; P. sanguinolentus from

Visakhapatnam, Andhra Pradesh. Mahapatra et al. [39] recorded two new species of brachyuran crab viz. *Liagore rubromaculata* and *Eucrate indicia* from Visakhapatnam fishing harbor, Andhra Pradesh.

The total annual production of Andhra Pradesh was 5000 tonnes (t) of marine crabs in 2019, which is 11% of India's total crab landings [40,41]. Crab is an economically important faunal group for their usage as a human protein supplementary source. Studies on crab diversity and distribution have been important for ecological studies because they are well associated with the benthic food chain and for studying the changes in the benthic community [42,36].

Although there are few recent studies on this faunal group in Andhra Pradesh, it appears from the literature that research on brachyuran diversity began in the early 1800s. Because understanding the current diversity status of brachyurans from the region is crucial for future ecological studies, a comprehensive data set is presented here. It is based on a review of all published data.

2. MATERIALS AND METHODS

The checklist was prepared based on information collected from available published and reported research like articles, short communication of new records, previous review works, books, species checklist, monographs, and Ph.D. thesis available from Sodhganga: a reservoir of Indian (http://hdl.handle.net/10603/364063) books, species checklist, monographs. The scientific names were first verified from WoRMS (World Register of Marine Species) and from the checklist of Ng et al. [3] on the brachyuran diversity of the world for validation of the present taxonomic status of the species [43,3]. Finally, the checklist was updated with the globally brachyuran accepted species. Revisionary studies of the families, genera, and species cause changes in taxonomical groups classification. Present conservation status of the reported species has been verified from the IUCN and a graphical comparison of the reported species and genus has been discussed. During the study, it has been observed that, the family Ocypodidae and Portunidae have been revised. Genus Portunus has been revised based on both morphometric analysis and genetic marker (COI, 16S, H3) analysis. The analysis shows that Monomia, Portunus and Xiphonectes polyphyletic and Achelous is paraphyletic.

Currently, the subfamily Portuninae from the Portunidae, comprises 11 Arenaeus Dana, 1851; Allomonomia Koch Spiridonov & Ďuriš, 2022; Cavoportunus T.S. Nguyen & P.K.L. Ng, 2010; Callinectes Stimpson, 1860; Cycloachelous Ward, 1942; Eodemus Koch, Spiridonov & Ďuriš, 2022; Incultus Koch, Spiridonov & Ďuriš, 2022; Monomia Gistel, 1848; Portunus Weber, 1795; Trionectes Koch, Spiridonov & Duriš, 2022; Xiphonectes A. Milne-Edwards, 1873. For this reason, Portunus (Xiphonectes) hastatoides Fabricius, 1798 has been changed into *Eodemus* hastatoides (Fabricius. 1798). **Portunus** (Xiphonectes) spinipes (Miers, 1886) has been changed into Alionectes spinipes (Miers, 1886) [44].

In this article, all the data have been collected and compiled from old literature and currently worked literature for preparing this regional checklist. All families with marine and estuarine representatives are included in the list; freshwater crabs are excluded from the list.

3. RESULTS

A checklist of 156 species, belonging to 91 genera and 33 families from Andhra Pradesh, India is given in Table 1. The family Portunidae comprises of highest species diversity (Genera 7, Species 27) followed by Leucosiidae (Genera 11, species 18), Ocypodidae (Genera 6, Species Xanthidae (Genera 6, Species Sesarmidae (Genera 9 Species 10), Varunidae (Genera 4, species 9) Pilumnidae (Genera 5, Species 6), Epialtidae (Genera 3, Species 6), Grapsidae (Genera 3, Species 5), Parthenopidae (Genera 5, Species 5), Pinnotheridae (Genera 3, Species 4), Dotillidae (Genera 2, Species 4), 4), Matutidae (Genera Species 2, Macrophthalmidae (Genera 1, Species Calappidae (Genera 1, Species 4), Dorippidae (Genera 3, Species 3), Dromiidae (Genera 2, Species 2), Raninidae (Genera 2, Species 2), Menippidae (Genera 2, Species 2), Plagusiidae (Genera 1, Species 2), Goneplacidae (Genera 1, Species 2), Iphiculidae (Genera 1, Species 2), (Genera Camptandriidae 1, Species 1), Chasmocarcinidae (Genera 1, Species 1), Galenidae (Genera 1, Species 1), Gecarcinidae (Genera 1, Species 1), Inachidae (Genera 1, Species 1), Polybiidae (Genera 1, Species 1), Retroplumidae (Genera 1, Species 1), Thiidae (Genera 1, Species 1), Carpiliidae (Genera 1, Species 1), Corystidae (Genera 1, Species 1) and Euryplacidae (Genera 1, Species 1) (Table 1 and Fig 2).

Table 1. Annotated checklist of marine and estuarine brachyuran crabs of Andhra Pradesh

Family 1: CALAPIDAE De Haan, 1833	Fami	ly and Species Name	Distributions & References
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9 Dorippe quadridens (J. C. Fabricius, 1793) Visakhapatnam [52] Family 5: DOTILLIDAE Stimpson, 1858 Genus 7: Dotilla Stimpson, 1858 10 Dotilla blanfordi Alcock, 1900 Visakhapatnam [31,8] Prakasam, Srikakulam, Visakhapatnam [31,8,32, 34] Prakasam, Srikakulam, Visakhapatnam [31,8,32, 34] Visakhapatnam [20,31,32] Genus 8: Scopimera De Haan, 1833 Scopimera globosa (De Haan, 1835) Vamsadhara [34] Family 6: DROMIIDAE De Haan, 1833 Genus 9: Lauridromia McLay, 1993 14 Lauridromia dehaani (Rathbun, 1923) Nellore, Visakhapatnam [31,8] Genus 10: SphaerodromiaAlcock 1899	8	Neodorippe callida (Fabricius, 1798)	Krishna, Guntur, East Godavari [31,8,32]
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13 Scopimera globosa (De Haan, 1835) Family 6: DROMIIDAE De Haan, 1833 Genus 9: Lauridromia McLay, 1993 14 Lauridromia dehaani (Rathbun, 1923) Genus 10: SphaerodromiaAlcock 1899 Vamsadhara [34] Vamsadhara [34] Nellore, Visakhapatnam [31,8]			Visakhapatnam [20,31,32]
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14 Lauridromia dehaani (Rathbun, 1923) Nellore, Visakhapatnam [31,8] Genus 10: SphaerodromiaAlcock 1899			
Genus 10: SphaerodromiaAlcock 1899	Genu	y ,	
· · · · · · · · · · · · · · · · · · ·		, ,	Nellore, Visakhapatnam [31,8]
15 Sphaerodromia kendalli (Alcock & Anderson, 1894) Nellore [22,18, 20, 21,31,35]	Genu		
	15	Sphaerodromia kendalli (Alcock & Anderson, 1894)	Nellore [22,18, 20, 21,31,35]

Family and Species Name	Distributions & References
Family 7: EPIALTIDAE MacLeay, 1838	
Genus 11: Doclea Leach, 1815	
16 Doclea muricata (Fabricius, 1788)	Visakhapatnam, Nagavali, Srikakulam [31, 34]
17 Doclea ovis (Fabricius, 1787)	East Godavari, Krishna, Nellore, Visakhapatnam [31,8]
18 Doclea canalifera Stimpson, 1857	Visakhapatnam [52]
Genus 12: Phalangipus Latreille, 1828	
19 Phalangipus indicus (Leach, 1815)	Visakhapatnam [31,8]
20 Phalangipus longipes (Linnaeus, 1758)	Visakhapatnam [31]
Genus 13: Crocydocinus B.Y. Lee, Richer de Forges & P.K.L. Ng, 2019	
21 Crocydocinus beauchampi (Alcock & Anderson, 1894)	Andhra Coast [23,20,35]
Family 8: GALENIDAE Alcock 1898	
Genus 14: Galene De Haan, 1833	
22 Galene bispinosa (Herbst, 1783)	East Godavari, Guntur, Krishna, Nellore, Prakasam, Visakhapatnam
	[17,31,8]
Family 9: GECARCINIDAE MacLeay, 1838	
Genus 15: Cardisoma Latreille in Latreille, Le Peletier, Serville & Guérin, 1828	
23 Cardisoma carnifex (Herbst, 1796)	Krishna [20,8,32]
Family 10: GONEPLACIDAE MacLeay, 1838	
Genus 16: Carcinoplax H. Milne Edwards, 1852	
24 Carcinoplax longipes (Wood-Mason, in Wood-Mason & Alcock, 1891)	Prakasam, Visakhapatnam [31,8]
25 Carcinoplax longimanus (De Haan, 1833)	Prakasam, Visakhapatnam [31,8]
Family 11: GRAPSIDAE MacLeay, 1838	
Genus 17: <i>Grapsus</i> Lamarck, 1801	
Grapsus albolineatus Latreille, in Milbert, 1812	Visakhapatnam [20,53,31]
27 Grapsus grapsus (Linnaeus, 1758)	Srikakulam [36]
Genus 18: Metopograpsus H. Milne Edwards, 1853	
28 Metopograpsus latifrons (White, 1847)	Visakhapatnam [31, 8]
29 Metopograpsus messor (Forskål, 1775)	Vamsadhara, West Godavari, Krishna, East Godavari,
	Visakhapatnam [31,8,34]
Genus 19: <i>Pachygrapsus</i> Randall, 1840	
30 Pachygrapsus minutus A. Milne-Edwards, 1873	Visakhapatnam [31,8]
Family 12: INACHIDAE MacLeay, 1838	
Genus 20: Encephaloides Wood-Mason in Wood-Mason & Alcock, 1891	

Family and Species Name	Distributions & References
31 Encephaloides armstrongi Wood-Mason, in Wood-Mason & Alcock, 1891	Godavari Coast [31]
Family 13: IPHICULIDAE Alcock 1896	
Genus 21: Pariphiculus Alcock 1896	
32 Pariphiculus coronatus (Alcock & Anderson, 1894)	Andhra Coast [22,20]
33 Pariphiculus mariannae (Herklots, 1852)	Andhra Coast [15]
Family 14: LEUCOSIIDAE Samouelle, 1819	
Genus 22: Arcania Leach, 1817	
34 Arcania cornuta (MacGilchrist, 1905)	Prakasam, Visakhapatnam (Devi et al. 1988)
35 Arcania erinacea (Fabricius, 1787)	Visakhapatnam [26]
36 Arcania gracilis Henderson, 1893	Visakhapatnam [16,31,35]
37 Arcania septemspinosa (Fabricius, 1787)	East Godavari, Krishna, Nellore, Prakasam, Visakhapatnam [31,8]
38 Arcania undecimspinosa De Haan, 1841	Prakasam [31,8]
Genus 23: Euclosiana Galil & P.K.L. Ng, 2010	
39 Euclosiana obtusifrons (De Haan, 1841)	Andhra coast [16]
Genus 24: <i>Ixa</i> Leach, 1816	
40 Ixa cylindrus (Fabricius, 1777)	Visakhapatnam [31]
Genus 25: Leucosia Weber, 1795	
41 Leucosia craniolaris (Linnaeus, 1758)	East Godavari [31]
Genus 26: Nursia Leach, 1817	
42 Nursia lar (Fabricius, 1793)	Andhra coast [16]
Genus 27: Parilia Wood-Mason in Wood-Mason & Alcock, 1891	
43 Parilia Alcocki Wood-Mason, in Wood-Mason & Alcock, 1891	East Godavari, West Godavari [28,31]
Genus 28: Philyra Leach, 1817	
44 Philyra globus (Fabricius,1775)	Visakhapatnam, Srikakulam, Krishna, East Godavari, Guntur [15,31,8,32]
45 Philyra sagittifera (Alcock, 1896)	Visakhapatnam [31]
46 Philyra scabriuscula (Fabricius, 1798)	Visakhapatnam [31]
47 Philyra sexangula Alcock, 1896	East Godavari, West Godavari, Krishna [15,28,31,32]
Genus 29: Ryphila Galil, 2009	· · · · · ·
48 Ryphila cancellus (Herbst, 1783)	Visakhapatnam [26]
Genus 30: Seulocia Galil, 2005	
49 Seulocia rhomboidalis (De Haan, 1841)	Andhra Coast [15, 16]
Genus 31: Urnalana Galil, 2005	

Genus 32: Myra Leach, 1817 Genus 32: Myra Leach, 1817 Myra lugax (J. C. Fabricius, 1798) Family 15: MACROPHTHAL MIDAE Dana, 1851 Genus 33: Macrophthalmus Desmarest, 1823 Sub Genus 1: Macrophthalmus (Macrophthalmus) Desmarest, 1823 52 Macrophthalmus (Macrophthalmus) Desmarest, 1804) Sub Genus 2: Macrophthalmus (Mareotis) Barnes, 1967 53 Macrophthalmus (Mareotis) Barnes, 1967 54 Macrophthalmus (Mareotis) Barnes, 1967 55 Macrophthalmus (Mareotis) Barnes, 1967 56 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 57 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 58 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 59 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 50 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 50 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 51 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 52 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 53 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 54 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 55 Macrophthalmus (Mareotis) Bornessus Rüppell, 1830 56 Ashtoret lunaris (Forskal, 1775) 57 Ashtoret miersii (Henderson, 1887) 58 Matuta Weber, 1795 59 Matuta Weber, 1795 58 Matuta Planipes Fabricius, 1798 59 Matuta Victor (Fabricius, 1798) 59 Matuta Victor (Fabricius, 1781) East Godavari, Guntur, Nellore, Prakasam, Srikakulam, Visakhapatnam [27,31] Family 17: MENIPPIDAE Ortmann, 1893 Genus 36: Menippe De Haan, 1833 60 Menippe Thigendorf, 1879 61 Myomenippe Hilgendorf, 1879 61 Myomenippe Hilgendorf, 1879 62 Austruca Bott, 1973 62 Austruca Rott, 1973 62 Austruca Rott, 1973 62 Austruca Rott, 1973 63 Austruca Rott, 1973 64 Austruca annulipes (H. Milne Edwards, 1877) 65 East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32,34] 66 Austruca Rott, 1973 67 Austruca Rott, 1973 68 Austruca Rott, 1973 69 Selasimus Latreille, 1817	Family	and Species Name	Distributions & References
Genus 32: Myra Leach, 1817 Visakhapatnam [52]		•	
Family 15: MACROPHTHALMIDAE Dana, 1851 Genus 33: Macrophthalmus Desmarest, 1823 52: Macrophthalmus (Macrophthalmus) Desmarest, 1823 52: Macrophthalmus (Macrophthalmus) brevis (Herbst, 1804) 53: Macrophthalmus (Macrobis) Barnes, 1967 54: Macrophthalmus (Mareotis) depressus Rüppell, 1830 55: Macrophthalmus (Mareotis) depressus Rüppell, 1830 56: Macrophthalmus (Mareotis) depressus Rüppell, 1830 57: Macrophthalmus (Mareotis) depressus Rüppell, 1830 58: Macrophthalmus (Mareotis) depressus Rüppell, 1830 59: Macrophthalmus (Mareotis) depressus Rüppell, 1830 50: Macrophthalmus (Mareotis) depressus Rüppell, 1830 50: Macrophthalmus (Mareotis) depressus Rüppell, 1830 51: Macrophthalmus (Mareotis) depressus Rüppell, 1830 52: Macrophthalmus (Mareotis) depressus Rüppell, 1830 53: Macrophthalmus (Mareotis) depressus Rüppell, 1830 54: Macrophthalmus (Mareotis) depressus Rüppell, 1830 55: Macrophthalmus (Mareotis) depressus Rüppell, 1830 56: Matuta planips De De Han, 1835 57: Asthoret flunaris (Forskål, 1775) 58: Matuta Weber, 1795 58: Matuta Weber, 1795 59: Matuta victor (Fabricius, 1798) 59: Matuta planipse Fabricius, 1798 60: Menippe De Haan, 1833 60: Menippe pardovickii (Gray, 1831) 61: Myomenippe hardwickii (Gray, 1831) 62: Austruca Bott, 1973 62: Austruca Bott, 1973 63: Austruca Bott, 1973 64: Austruca annulipes (H. Milne-Edwards, 1837) 66: Genus 39: Gelasimus Latreille, 1817			
Family 15: MACROPHTHALMIDAE Dana, 1851 Genus 33: Macrophthalmus Desmarest, 1823 Sub Genus 1: Macrophthalmus (Macrophthalmus) besvis (Herbst, 1804) Sub Genus 2: Macrophthalmus (Macrophthalmus) brevis (Herbst, 1804) Sub Genus 2: Macrophthalmus (Macrobis) Barnes, 1967 53: Macrophthalmus (Mareotis) crinitus Rathbun, 1913 54: Macrophthalmus (Mareotis) crinitus Rathbun, 1913 55: Macrophthalmus (Mareotis) crinitus Rathbun, 1913 56: Macrophthalmus (Mareotis) tomentosus Eydoux & Souleyet, 1842 Family 16: MATUTIDAE De Haan, 1835 Genus 34: Ashtoret Galil & P.F. Clark, 1994 56: Ashtoret lunaris (Forskal, 1775) 57: Ashtoret miersii (Henderson, 1887) Genus 35: Matuta Weber, 1795 58: Matuta Weber, 1795 59: Matuta planipes Fabricius, 1798 Genus 36: Menippe De Haan, 1833 Genus 36: Menippe De Haan, 1833 60: Menippe De Haan, 1833 60: Menippe De Haan, 1833 60: Menippe pe Hilgendorf, 1879 61: Myomenippe hardwickii (Gray, 1831) Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62: Austruca Hain (A. Milne-Edwards, 1873) 63: Austruca annulipes (H. Milne-Edwards, 1837) Genus 39: Gelasimus Latreille, 1817	51	Myra fugax (J. C. Fabricius, 1798)	Visakhapatnam [52]
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Family 16: MATUTIDAE De Haan, 1835 Genus 34: Ashtoret Galil & P.F. Clark, 1994 56	54	Macrophthalmus (Mareotis) depressus Rüppell, 1830	Visakhapatnam [31,8]
Genus 34: Ashtoret Galil & P.F. Clark, 1994 56	55	Macrophthalmus (Mareotis) tomentosus Eydoux & Souleyet, 1842	Visakhapatnam [31,8]
56 Ashtoret lunaris (Forskål, 1775) 57 Ashtoret miersii (Henderson, 1887) 58 Bast Godavari, Srikakulam, Visakhapatnam [31] 59 Matuta planipes Fabricius, 1798 59 Matuta victor (Fabricius, 1781) 50 Matuta victor (Fabricius, 1781) 50 Matuta victor (Fabricius, 1781) 51 East Godavari, Guntur, Nellore, Prakasam, Srikakulam, Visakhapatnam [27,31] 52 Visakhapatnam [27,31] 53 Matuta victor (Fabricius, 1781) 54 Matuta victor (Fabricius, 1781) 55 Matuta victor (Fabricius, 1781) 56 Matuta victor (Fabricius, 1781) 57 MENIPPIDAE Ortmann, 1893 68 Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) 61 Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) 61 Myomenippe hardwickii (Gray, 1831) 62 Austruca Bott, 1973 63 Austruca Bott, 1973 64 Austruca annulipes (H. Milne-Edwards, 1873) 65 Austruca annulipes (H. Milne-Edwards, 1837) 66 Genus 39: Gelasimus Latreille, 1817	Family	16: MATUTIDAE De Haan, 1835	
Genus 35: Matuta Weber, 1795 58 Matuta planipes Fabricius, 1798 59 Matuta victor (Fabricius, 1781) Family 17: MENIPPIDAE Ortmann, 1893 Genus 36: Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) Genus 37: Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) 63 Austruca triangularis (A. Milne-Edwards, 1873) 64 Austruca annulipes (H. Milne Edwards, 1837) Genus 39: Gelasimus Latreille, 1817	Genus	34: Ashtoret Galil & P.F. Clark, 1994	
Genus 35: Matuta Weber, 1795 58	56	Ashtoret lunaris (Forskål, 1775)	East Godavari, West Godavari, Krishna [16,28,31,32,34]
Nellore, Krishna, Kakinada [31] East Godavari, Guntur, Nellore, Prakasam, Srikakulam, Visakhapatnam [27,31] Family 17: MENIPPIDAE Ortmann, 1893 Genus 36: Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) Genus 37: Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) 63 Austruca triangularis (A. Milne-Edwards, 1873) 64 Austruca annulipes (H. Milne Edwards, 1837) Genus 39: Gelasimus Latreille, 1817	57	Ashtoret miersii (Henderson, 1887)	East Godavari, Srikakulam, Visakhapatnam [31]
East Godavari, Guntur, Nellore, Prakasam, Srikakulam, Visakhapatnam [27,31] Family 17: MENIPPIDAE Ortmann, 1893 Genus 36: Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) Visakhapatnam [31,8] Genus 37: Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) East Godavari, Guntur, Visakhapatnam [31,8,32] Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] 63 Austruca triangularis (A. Milne-Edwards, 1873) East Godavari, Guntur [29,31,32] 64 Austruca annulipes (H. Milne Edwards, 1837) Srikakulam [36]	Genus	35: Matuta Weber, 1795	
Family 17: MENIPPIDAE Ortmann, 1893 Genus 36: Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) Visakhapatnam [31,8] Genus 37: Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) East Godavari, Guntur, Visakhapatnam [31,8,32] Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] 63 Austruca triangularis (A. Milne-Edwards, 1873) East Godavari, Guntur [29,31,32] 64 Austruca annulipes (H. Milne Edwards, 1837) Srikakulam [36]	58	Matuta planipes Fabricius, 1798	Nellore, Krishna, Kakinada [31]
Family 17: MENIPPIDAE Ortmann, 1893 Genus 36: Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) Visakhapatnam [31,8] Genus 37: Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) East Godavari, Guntur, Visakhapatnam [31,8,32] Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] 63 Austruca triangularis (A. Milne-Edwards, 1873) East Godavari, Guntur [29,31,32] 64 Austruca annulipes (H. Milne Edwards, 1837) Srikakulam [36]	59	Matuta victor (Fabricius, 1781)	East Godavari, Guntur, Nellore, Prakasam, Srikakulam,
Genus 36: Menippe De Haan, 1833 60 Menippe rumphii (Fabricius, 1798) Visakhapatnam [31,8] Genus 37: Myomenippe Hilgendorf, 1879 61 Myomenippe hardwickii (Gray, 1831) East Godavari, Guntur, Visakhapatnam [31,8,32] Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] 63 Austruca triangularis (A. Milne-Edwards, 1873) East Godavari, Guntur [29,31,32] 64 Austruca annulipes (H. Milne Edwards, 1837) Srikakulam [36] Genus 39: Gelasimus Latreille, 1817			Visakhapatnam [27,31]
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61 Myomenippe hardwickii (Gray, 1831) Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) 63 Austruca triangularis (A. Milne-Edwards, 1873) 64 Austruca annulipes (H. Milne Edwards, 1837) Genus 39: Gelasimus Latreille, 1817 East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] East Godavari, Guntur [29,31,32] Srikakulam [36]			Visakhapatnam [31,8]
Family 18: OCYPODIDAE Rafinesque, 1815 Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) 63 Austruca triangularis (A. Milne-Edwards, 1873) 64 Austruca annulipes (H. Milne Edwards, 1837) Genus 39: Gelasimus Latreille, 1817 East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] East Godavari, Guntur [29,31,32] Srikakulam [36]	Genus	37: Myomenippe Hilgendorf, 1879	
Genus 38: Austruca Bott, 1973 62 Austruca lactea (De Haan, 1835) 63 Austruca triangularis (A. Milne-Edwards, 1873) 64 Austruca annulipes (H. Milne Edwards, 1837) Genus 39: Gelasimus Latreille, 1817 East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] East Godavari, Guntur [29,31,32] Srikakulam [36]			East Godavari, Guntur, Visakhapatnam [31,8,32]
62 Austruca lactea (De Haan, 1835) 63 Austruca triangularis (A. Milne-Edwards, 1873) 64 Austruca annulipes (H. Milne Edwards, 1837) 65 East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34] 66 East Godavari, Guntur [29,31,32] 67 Srikakulam [36] 68 Srikakulam [36]	Family	18: OCYPODIDAE Rafinesque, 1815	
63 Austruca triangularis (A. Milne-Edwards, 1873) East Godavari, Guntur [29,31,32] 64 Austruca annulipes (H. Milne Edwards, 1837) Srikakulam [36] Genus 39: Gelasimus Latreille, 1817	Genus	38: Austruca Bott, 1973	
64 Austruca annulipes (H. Milne Edwards, 1837) Srikakulam [36] Genus 39: Gelasimus Latreille, 1817	62	Austruca lactea (De Haan, 1835)	East Godavari, Guntur, Nellore, Vizianagaram [28,31,8,32, 34]
Genus 39: Gelasimus Latreille, 1817	63	Austruca triangularis (A. Milne-Edwards, 1873)	East Godavari, Guntur [29,31,32]
· · · · · · · · · · · · · · · · · · ·			Srikakulam [36]
	Genus	•	
65 Gelasimus vocans (Linnaeus, 1758) Andhra Coast [20]	65	Gelasimus vocans (Linnaeus, 1758)	Andhra Coast [20]
Genus 40: Ocypode Weber, 1795	Genus	40: Ocypode Weber, 1795	
66 Ocypode brevicornis H. Milne Edwards, 1837 Andhra Coast [8,32, 34]	66	Ocypode brevicornis H. Milne Edwards, 1837	Andhra Coast [8,32, 34]

Family	and Species Name	Distributions & References
67	Ocypode ceratophthalmus (Pallas, 1772)	Visakhapatnam, West Godavari [28,31,8]
68	Ocypode cordimana Latreille, 1818	Nellore, Visakhapatnam [31, 8]
69	Ocypode macrocera H. Milne Edwards, 1852	East Godavari, Nellore, Prakasam, Srikakulam, Visakhapatnam
		[31,8, 32, 34]
70	Ocypode platytarsis H. Milne Edwards, 1852	Visakhapatnam, East Godavari, Prakasam, Vamsadhara, Nagavali,
		Nellore, Srikakulam, East Godavari [36]
Genus	41: Tubuca Bott, 1973	
71	Tubuca dussumieri (H. Milne Edwards, 1852)	Visakhapatnam [28, 31]
Genus	42: Leptuca Bott, 1973	
72	Leptuca pugilator (Bosc, 1801)	Srikakulam [36]
Genus	43: Paraleptuca Bott, 1973	
73	Paraleptuca chlorophthalmus (H. Milne Edwards, 1837)	Srikakulam [36]
	19: PARTHENOPIDAE MacLeay, 1838	
	44: Cryptopodia H. Milne Edwards, 1834	
74	Cryptopodia angulata H. Milne Edwards & Lucas, 1841	Prakasam [31]
Genus	45: Enoplolambrus A. Milne-Edwards, 1878	
75	Enoplolambrus echinatus (Herbst, 1790)	Andhra Coast [15]
76	Enoplolambrus carenatus (H. Milne Edwards, 1834)	Visakhapatnam [52]
Genus	46: Parthenope Weber, 1795	
_77	Parthenope longimanus (Linnaeus, 1758)	East Godavari, West Godavari [28,31,8]
Genus	47: Patulambrus S.H. Tan & P.K.L. Ng, 2007	
78	Patulambrus petalophorus (Alcock, 1895)	Visakhapatnam [52]
	20: PILUMNIDAE Samouelle, 1819	
Genus	48: Actumnus Dana, 1851	
79	Actumnus setifer (De Haan, 1835)	Andhra Coast [17]
	49: Benthopanope Davie, 1989	
80	Benthopanope indica (De Man, 1887)	East Godavari [31, 8]
	50: Eurycarcinus A. Milne-Edwards, 1867	
81	Eurycarcinus natalensis (Krauss, 1843)	Visakhapatnam [31, 8]
82	Eurycarcinus orientalis A. Milne-Edwards, 1867	Visakhapatnam, Krishna [31,8,32]
Genus	51: Typhlocarcinus Stimpson, 1858	
83	Typhlocarcinus rubidus Alcock, 1900	East Godavari [31]
Genus	52: Xenophthalmodes Richters, 1880	

Family	y and Species Name	Distributions & References
84	Xenophthalmodes moebii Richters, 1880	Visakhapatnam [20,31]
Family	y 21: PINNOTHERIDAE De Haan, 1833	
Genus	s 53: <i>Arcotheres</i> R.B. Manning, 1993	
85	Arcotheres Alcocki (Rathbun, 1909)	East Godavari [31]
86	Arcotheres placunae (Hornell & Southwell, 1909)	East Godavari [31]
Genus	s 54: Viridotheres R.B. Manning, 1996	
87	Viridotheres gracilis (Bürger, 1895)	East Godavari [31]
Genus	s 55: Pinnotheres Bosc, 1801	• •
88	Pinnotheres pisum (Linnaeus, 1767)	Visakhapatnam [26]
Family	y 22: PLAGUSIIDAE Dana, 1851	· · ·
Genus	s 56: <i>Plagusia</i> Latreille, 1804	
89	Plagusia depressa (J. C. Fabricius, 1775)	Andhra Coast [31, 8]
90	Plagusia squamosa (Herbst, 1790)	Visakhapatnam [8]
Family	y 23: PORTUNIDAE Rafinesque, 1815	
Genus	s 57: <i>Charybdis</i> De Haan, 1833	
Sub G	Genus 3: Charybdis (Charybdis) De Haan, 1833	
91	Charybdis (Charybdis) affinis Dana, 1852	Krishna, Guntur, Nellore [31]
92	Charybdis (Charybdis) annulata Fabricius, 1798	Kakinada, Visakhapatnam [19,28,31]
93	Charybdis (Charybdis) callianassa (Herbst, 1798)	Visakhapatnam, Guntur, East Godavari, Krishna [31,32]
94	Charybdis (Charybdis) feriata (Linnaeus, 1758)	Krishna, East Godavari, Guntur, Nellore [28,31,8,32]
95	Charybdis (Charybdis) hellerii (A. Milne-Edwards, 1867)	Visakhapatnam, Krishna [31,32]
96	Charybdis (Charybdis) lucifera (Fabricius, 1798)	Guntur, Kakinada, Visakhapatnam [31]
97	Charybdis (Charybdis) natator (Herbst, 1794)	Visakhapatnam, East Godavari [31]
98	Charybdis (Charybdis) rostrata (A. Milne-Edwards, 1861)	West Godavari [28,31,8,32, 34]
	Genus 4: <i>Charybdis (Archias)</i> Paulson, 1875	
99	Charybdis (Archias) hoplites (Wood-Mason, 1877)	Visakhapatnam, Nellore, Krishna, Prakasam [19,20,31,32]
10	Charybdis (Archias) ornata (A. Milne-Edwards, 1861)	Andhra Coast [19]
101	Charybdis (Archias) truncata (Fabricius, 1798)	Visakhapatnam, Srikakulam [31, 8]
102	Charybdis (Archias) vadorum Alcock, 1899	Visakhapatnam [31]
	s 58: <i>Podophthalmus</i> Lamarck, 1801	
103	Podophthalmus vigil (Fabricius, 1798)	Nellore, Prakasam, Visakhapatnam, West Godavari [28,31,8]
	s 59: <i>Portunus</i> Weber, 1795	
104	Portunus reticulatus (Herbst, 1799)	Andhra Coast [19,55,32, 34]

Family and Species Name	Distributions & References
105 Portunus sanguinolentus (Herbst, 1783)	West Godavari, Vamsadhara, Guntur, Nellore, Kakinada, Nagavali,
	Srikakulam, Visakhapatnam [28,31,8,32, 34]
106 Portunus pelagicus (Linnaeus, 1758)	East Godavari, West Godavari, Krishna, Vamsadhara, Guntur,
	Nellore, Kakinada, Nagavali, Srikakulam, Visakhapatnam [33, 31]
Genus 60: Monomia Gistel, 1848	
107 Monomia gladiator (Fabricius, 1798)	Visakhapatnam [33]
108 Monomia haani (Stimpson, 1858)	Visakhapatnam [38]
Genus 61: Scylla De Haan, 1833	
109 Scylla serrata (Forskål, 1775)	East Godavari, West Godavari, Srikakulam, Nellore, Guntur,
	Vamsadhara, Nagavali [53, 28,32, 34]
110 Scylla tranquebarica (Fabricius, 1798)	Krishna, Nellore, Visakhapatnam [31, 8]
111 Scylla olivacea (Herbst, 1796)	Visakhapatnam [37]
Genus 62: <i>Thalamita</i> Latreille, 1829	
112 Thalamita admete (Herbst, 1803)	Visakhapatnam [31, 8]
113 Thalamita chaptali (Audouin & Savigny, 1817)	Srikakulam, Visakhapatnam [31, 8]
114 Thalamita crenata (Latreille, 1829)	Visakhapatnam, Vamsadhara, Nagavali [31,8,32, 34]
115 Thalamita prymna (Herbst, 1803)	Visakhapatnam [34]
Genus 63: <i>Eodemus</i> Koch, Spiridonov & Ďuriš, 2022	
116 Eodemus hastatoides (Fabricius, 1798)	Nellore, Krishna [31]
Genus 64: Alionectes Koch, Spiridonov & Ďuriš, 2022	
117 Alionectes spinipes (Miers, 1886)	Nellore, Krishna [31]
Family 24: POLYBIIDAE Ortmann, 1893	
Genus 65: Parathranites Miers, 1886	
118 Parathranites orientalis (Miers, 1886)	Andhra Coast [19]
Family 25: RANINIDAE De Haan, 1839	
Genus 66: Notopus De Haan, 1841	
119 Notopus dorsipes (Linnaeus, 1758)	Andhra Coast [15]
Genus 67: Raninoides H. Milne Edwards, 1837	
120 Raninoides personatus Henderson, 1888	Vamsadhara [31]
Family 26: RETROPLUMIDAE Gill, 1894	
Genus 68: Retropluma Gill, 1894	
121 Retropluma notopus (Alcock & Anderson, 1894)	Andhra Pradesh [20]

Family	and Species Name	Distributions & References
Genus	69: Armases Abele, 1992	
122	Armases cinereum (Bosc, 1801)	Srikakulam [37]
Genus	70: Episesarma De Man, 1895	
123	Episesarma mederi (H. Milne Edwards, 1854)	East Godavari, West Godavari [28,32]
124	Episesarma versicolor (Tweedie, 1940)	Srikakulam [37]
Genus	371: Circulium Naruse & PKL Ng, 2020	
125	Circulium vitatum (PKL Ng & Davie, 2011)	Andhra Pradesh [8]
Genus	372: Metasesarma H. Milne Edwards, 1853	
126	Metasesarma obesum (Dana, 1851)	Visakhapatnam [20,8]
Genus	373: <i>Muradium</i> Serène & Soh, 1970	
127	Muradium tetragonum (Fabricius, 1798)	Vamsadhara [14,8,32,34]
Genus	74: Neosarmatium Serène & Soh, 1970	•
128	Neosarmatium asiaticum Ragionieri, Fratini & Schubart, 2012	Andhra Coast [20]
Genus	375: Parasesarma De Man, 1895	
129	Parasesarma plicatum (Latreille, 1803)	Guntur, Nellore, West Godavari [53,28, 31,32]
Genus	376: Parasesarma De Man, 1895	
130	Perisesarma bidens (De Haan, 1835)	Srikakulam [32]
Genus	s 77: Sesarma Say, 1817	
131	Sesarma reticulatum (Say, 1817)	Srikakulam [37]
Family	28: THIIDAE Dana, 1852	
Genus	378: Nautilocorystes H. Milne Edwards, 1837	
132	Nautilocorystes investigatoris Alcock, 1899	Visakhapatnam [19,31,35]
Family	29: VARUNIDAE H. Milne Edwards, 1853	
Genus	3 79: Hemigrapsus Dana, 1851	
133	Hemigrapsus oregonensis (Dana, 1851)	Srikakulam [37]
Genus	80: <i>Metaplax</i> H. Milne Edwards, 1852	
134	Metaplax crenulata (Gerstaecker, 1856)	West Godavari [28, 31,8]
135	Metaplax distincta H. Milne Edwards, 1852	Krishna, West Godavari, Nellore [29,31,32]
136	Metaplax elegans De Man, 1888	East Godavari [20,29,31,8,32]
137	Metaplax indica H. Milne Edwards, 1852	Visakhapatnam, Guntur [31,8,32]
138	Metaplax intermedia De Man, 1888	East Godavari [28,31,8,32]
	81: Ptychognathus Stimpson, 1858	
139	Ptychognathus barbatus (A. Milne-Edwards, 1873)	Visakhapatnam [31]

140 Ptychognathus onyx Alcock, 1900 Andhra Pradesh [8] Genus 82: Varuna H. Milne Edwards in Bory de Saint Vincent (ed.), 1830 141 Varuna litterata (Fabricius, 1798) East Godavari, Nagavali, Vamsadhara [53, 28,32,34] Family 30: XANTHIDAE MacLeay, 1838	
141 Varuna litterata (Fabricius, 1798) East Godavari, Nagavali, Vamsadhara [53, 28,32,34] Family 30: XANTHIDAE MacLeay, 1838	
Family 30: XANTHIDAE MacLeay, 1838	
Genus 83: <i>Banareia</i> A. Milne-Edwards, 1869	
142 Banareia banareias (Rathbun, 1911) Visakhapatnam [31]	
Genus 84: <i>Demania</i> Laurie, 1906	
143 Demania splendida Laurie, 1906 Visakhapatnam [31]	
144 Demania toxica Garth, 1971 Visakhapatnam [30,31]	
145 Demania armadillus (Herbst, 1790) Visakhapatnam, Kakinada [52]	
146 Demania baccalipes (Alcock 1898) Visakhapatnam, Kakinada [52]	
147 Demania reynaudii (H. Milne Edwards, 1834) Visakhapatnam, kakinada [52]	
Genus 85: <i>Liagore</i> De Haan, 1833	
148 Liagore erythematica Guinot, 1971 Prakasam, Visakhapatnam [31]	
149 Liagore rubromaculata (De Haan, 1983) Visakhapatnam [39]	
Genus 86: Nectopanope Wood-Mason in Wood-Mason &Alcock 1891	
150 Nectopanope rhodobaphes Wood-Mason, in Wood-Mason & Alcock, East Godavari [18, 20,28,31, 35]	
1891	
Genus 87: Neoxanthias Ward, 1932	
151 Neoxanthias michelae Serène & Vadon, 1981 Visakhapatnam [52]	
Genus 88: Atergatis De Haan, 1833	
152 Atergatis floridus (Linnaeus, 1767) Visakhapatnam, Kakinada [52]	
153 Atergatis integerrimus (Lamarck, 1818) Visakhapatnam, Kakinada [52]	
Family 31: CARPILIIDAE Ortmann, 1893	
Genus 89: Carpilius Desmarest, 1823	
154 Carpilius maculatus (Linnaeus, 1758) Visakhapatnam [52]	
Family 32: CORYSTIDAE Samouelle, 1819	
Genus 90: Jonas Hombron & Jacquinot, 1846	
155 Jonas indicus (Chopra, 1935) Visakhapatnam [52]	
Family 33: Euryplacidae Stimpson, 1871	
Genus 90: Eucrate De Haan, 1835	
156 Eucrate indica Castro & Ng, 2010 Visakhapatnam [39]	

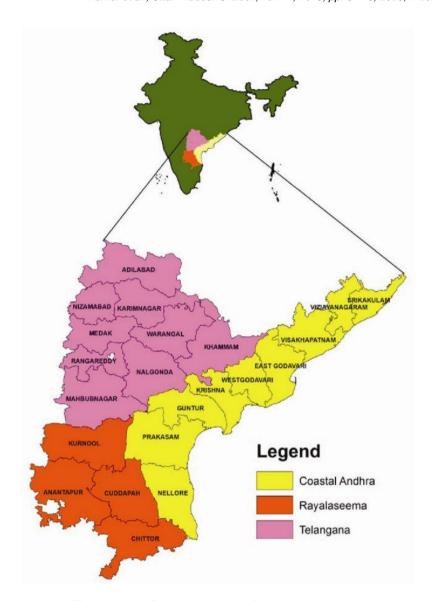


Fig. 1. Map of coastal parts of Andhra Pradesh

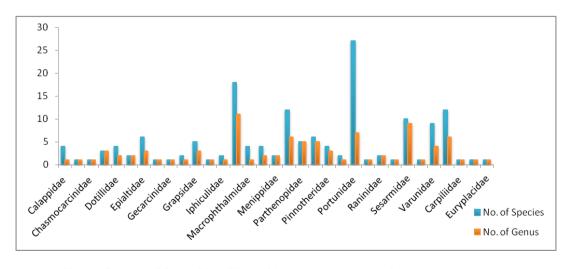


Fig. 2. Composition of families of brachyuran crabs in Andhra Pradesh

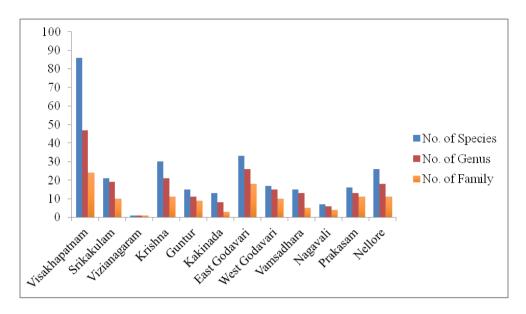


Fig. 3. Availability of marine and estuarine brachyuran crabs in major places of Andhra Pradesh

In Andhra Pradesh, a maximum number of genera and species reported from Visakhapatnam > East Godavari > Krishna > Nellore > Srikakulam > West Godavari > Guntur > Vamsadhara > Prakasam > Kakinada > Nagavali > Vizianagaram respectively. Family wise highest diversity is seen in Visakhapatnam > East Godavari > Krishna = Prakasam = Nellore > Srikakulam = West Godavari > Guntur > Vamsadhara > Nagavali > Kakinada Vizianagaram respectively (Fig. 1 and Fig. 3).

4. DISCUSSION

Andhra coast displays different types of coastal habitats like the sandy shore, estuaries, backwaters, creek, mud flat, and rocky shore [45]. As a fact of these, habitat distributions among the brachyuran crabs in this region are wide. As per the present communication a list of 156 species of brachyuran crab under 91 genera and 33 families have been recorded from the State of Andhra Pradesh, covering all the coastal and estuarine habitats, i.e. coral reef, mangrove, mudflats, sandy beach, rocky intertidal area etc. (Table 1). The species under the family Calappidae, Dorippidae, Dromiidae, Epialtidae, Goneplacidae, and Matutidae are mainly found in sub-tidal and sandy regions. Crabs from the family Portunidae can be found in both intertidal rocky regions, shallow sandy substrate, and mud and mangrove regions. There are some crabs from the family Xanthidae, Carpiliidae, and Leucosiidae which are coral reef-associated crabs. Family Xanthidae represents mainly coral reef-associated crabs but some species can also be found in sandy bottoms up to 30 m depth. Crabs from the family Varunidae, and Sesarmidae are mostly seen in the muddy substrate, marsh banks, river banks, and mangrove regions [46,3,47].

The taxonomical work on the marine brachvuran crabs of Andhra Pradesh is still going on since Alcock Srikakulam. Vizianagaram, [14]. Bhimunipatnam, Waltair. Elamanchilli. Pithapuram, Kakinada, Sekhinetipalli, Maginipudi, Machilipatnam, Nizampatnam, Vadarevu, Chirala, Ongole, Kottapatnam, Malipadu, Nellore, Muthukur, Krishnapatnam, East Godavari, West Godavari, areas had been studied to explore the brachyuran crab diversity [31]. There are some crabs landing centres like Chollangi, Tallarevu, Bhairavapalem, Puddimadaka. Vishakhapatnam fishing harbor, which are crucial sites for the collection of trawled crabs according to Prasanthi et al. [48]. Literature survey revealed that some of the places of Andhra Pradesh are reported with major brachyuran diversity like Visakhapatnam with 84 species, Srikakulam with 21 species, Krishna estuary with 35 species, Guntur with 15 species, East Godavari with 33 species, West Godavari with 17 species, Nagavali estuary with 7 species, Vamsadhara estuary with 15 species, and Prakasam with 16 species. Krishna, Nellore, Kakinada with 30 species, 26 species, and 13 species, respectively (Fig. 2).

Visakhapatnam showed the highest diversity of brachvuran crabs (86 species) and Vizianagaram showed the lowest diversity with only 1 species. Visakhapatnam is the highest diverse area since most of the studies have been carried out in this area well as it is the largest landing centre of Andhra Pradesh. The habitat diversity of Visakhapatnam district also draws toward species diversity due to its rocky, and sandy beach, and the presence of a patchy coral reef ecosystem. Kakinada is an important landing center for commercial crabs as it represents 13 species. East Godavari (Genera 26, species 33), Krishna (Genera 21, Species 30), Nellore (Genera 18, Species 26), Srikakulam (Genera 19, Species 21), West Godavari (Genera 15, Species 17), Prakasam (Genera 13, Species 16), Vamsadhara (Genera 13, Species 15), Guntur (Genera 11, Species 15), Kakinada (Genera 8, Species 13), Nagavali (Genera 6, Species 7), Vizianagaram (1 species) showed lowest brachvuran crab diversity probably due to its coastal geography and less exploration of these regions. Vamsadhara, Nagavali, and Krishna estuaries are enriched with mud crabs from the family Portunidae. Family Portunidae showed the highest number of species (27 species, 7 genera), and Leucosiidae was in the second position with 18 species (Fig. 1). Family leucosiidae (11 genera, 18 species), sesarmidae (9 genera, 10 species), Parthenopidae (5 genera, 5 species), and Pilumnidae (5 genera, 6 species) families seem to appear with high genus diversity of brachyuran crabs in this region.

Ng et al. [3] reported the existence of 6,793 brachyuran species from 1, 271 genera and 93 families in the World. After seven years, Davie et al. [5] reported a total of 7260 species from, 1401 genera and 104 families all over the world. Trivedi et al. [6] compiled the Indian checklist of crabs and reported 910 species belonging to 361 genera and 62 families. From Andhra Pradesh, they reported 121 species, 67 genera and 27 families of brachyuran crabs. The present review work reports 156 species of brachyuran crabs belonging to 91 genera and 33 families in Andhra Pradesh. The increase in brachyuran species number in these regions is perhaps due to the extensive survey and increasing interest in the classical taxonomical work on brachyuran. As so many researchers are doing taxonomic revision over the years, many species' names have been changed. As example, Ng. et al. [3] depicted Goniohellenus Subgenus in Charybdis (Goniohellenus) hoplites, Charybdis (Goniohellenus) ornata, Charybdis (Goniohellenus) truncata, Charybdis (Goniohellenus) vadorum, where Trivedi et al. [6] presented these species as Charybdis (Archias) hoplites, Charybdis (Archias) ornata, Charybdis (Archias) truncata, Charybdis (Archias) vadorum. Trivedi et al. [6] reported Monomia gladiator; which in Systema Brachyurorum Part I has been depicted as Portunus (Monomia) gladiator. According to Ng et al. [3], genus Ucais a major problem despite the revision. Subgeneric grouping is confusing. In this case, we followed WoRMS [43] and Trivedi et al. [6] during enlisting of species from the family Ocypodidae.

5. CONCLUSION

Brachyuran crabs also play an important role in the maintenance of equilibrium of the ecosystem, by holding a crucial position in the food chain. They collect nutrition from the algae, muscles, debris, and small organisms [49]. Sometimes the shape of their cheliped defines their food habit [47]. Among all these families, some species of the family Portunidae are edible commercially valuable. S. serrata, S. olivacea, P. pelagicus, P. sanguinolentus, C. feriatus are considered good food resources and good sources of income for many people [50]. In addition, mud crab farming is fast growing to provide sufficient production for both local and export markets. Also, larviculture shows that crab seed hatchery is successful in tropical regions with high salinity and temperature [51]. Crab farming has great potential in India. The Kakinada area of Andhra Pradesh represents a lucrative crab fishery as a good income source for the local people. Although the diversity of brachyuran crabs is facing a serious threat as both commercial and non-commercial, adult and juvenile crabs are being trawled along with the fish. Most of the species are dumped like trash in the fish-landing centres. Even some new records and new species have been described from the crab specimens collected from the trash from the fish landing centres [52]. Though it was shocking when checking the IUCN status of the reported species, as all the 156 species are not evaluated by IUCN, which needs attention by the researchers as the present diversity as well as the distributional status of this group is unknown creating a question for the conservation of biodiversity. Although studies on the brachyuran fauna of the Andhra coast made their stepping stone in the 1800s, it seems that further study on brachyuran crabs in this region may open up unexplored brachyuran crab diversity in Andhra

Pradesh, which will be ultimately helpful for understanding the marine benthic ecosystem.

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COMPETING INTERESTS

Authors have declared that no competing interests exist.

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