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## An updated checklist of Echinoderms from Indian waters

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## Abstract

Species checklists enlist the species available within the defined geographical region and thus serve as essential input for developing conservation and management strategies. The fields of conservation biology and ecology confront the challenge of inflated biodiversity, attributed to non-recognition of taxonomic inconsistencies such as synonyms, alternate representation, emendations etc. Critical review of the checklists and distributional records of Phylum Echinodermata from Indian waters and subsequent validation of species names with World Register of Marine Species (WoRMS) database, revealed that the current literature included 236 incorrect entries comprising of 162 synonyms, 15 emendations, 5 *nomina dubia*, 1 *nomen nudum*, 40 species under alternate representation, 9 species with author misnomer, 1 subspecies and 1 unaccepted. The 226 species found to be mixed with valid names and a revised checklist was prepared. The revised and updated checklist holds 741 species of echinoderms comprising of 182 asteroids (24.56%), 70 crinoids (9.45%), 138 echinoids (18.62%), 179 holothuroids (24.16%) and 172 ophiuroids (23.21%), placed under 28 orders and 107 families. This paper discusses the cause for taxonomic inflation and argues that such taxonomic inconsistencies alter our interpretations of a species including its inaccurate distribution and, could possibly impede the country's conservation and management efforts.

**Key words:** Echinodermata, India, checklist, Bay of Bengal, biodiversity, Andaman & Nicobar Islands

## Introduction

India has diverse coastal and marine ecosystems with many faunal and floral groups. The conservation, management and sustainable utilisation of natural resources depend on the qualitative and quantitative assessment of biodiversity (Narendran 2001; Prathapan *et al.* 2009). Preparation of checklist is the first step in any conservation effort, where the occurrence and distribution of the available species in the country is documented. Updating species checklists is an inherent and continuous task in biodiversity assessment. Unfortunately, most of the Indian marine taxa are not revised periodically, due to the prodigious nature of the task and lack of required experts and expertise. This impedes the conservation dependent on taxonomic checklists by conservation biologists, ecologists, and environmental managers. The glamour of taxonomy has been on a decline, and the subject is not recognized as an intellectually challenging and hypotheses-driven science, that it has become (Dayrat 2005; Padial *et al.* 2010; Haszprunar 2011). Reduction in financial support for taxonomic research, limited number of scientific journals publishing taxonomic research and editorial resistance among high impact journals to publish taxonomic data has been a significant impediment for addressing today's biodiversity crisis through scientific research (Bortolus 2008; Werner 2009; Boero 2010). This has led to lack of high quality taxonomic works and increased number of publications on taxonomic data in non-peer reviewed journals, which in turn have resulted in '*taxonomic inflation*' (Padial & Riva 2006), the increase in the number of taxa as a consequence of use of different taxonomic concepts and a visible shift from conventional taxonomy to "*cybertaxonomy*" during the last decade (Miller *et al.* 2012).

The current study critically reviews the checklists and taxonomic records of Phylum Echinodermata reported from India. Echinoderms are marine invertebrates comprised of feather stars and sea lilies, sea stars, brittle stars, sea urchins and sea cucumbers. Echinoderms are pentaradially symmetrical animals with unique features of endoskeleton and water vascular system and form a dominant group in the marine benthic environment (Brusca & Brusca 1990). This phylum has a variety of trophic groups, including detritivores, filter-feeders, grazers, scavengers and active predators (Himmelman & Dutil 1991). They are distributed from shallow to the deep,

tropical to polar and are generally benthic except the pelagic holothuroid, *Rynkatropa pawsoni* (Pawson 2007). Globally about 13,000 fossil species and 7000 living species of echinoderms have been reported (Pawson 2007). Echinoderms are deuterostomes and therefore more closely related to the Chordata than any other invertebrate phylum (Hyman 1955; Smith 2004).

Major works on echinoderm taxonomy was undertaken in the 19<sup>th</sup> century based on samples collected during the expeditions such as Challenger, Valdivia, Siboga, Albatross, etc. (James 2008). Significant collections were made during the cruise by Royal Indian Marine Survey steamer investigator (RIMS). This is substantiated in the Indian Museum deposits as reported - Crinoidea (Clark AH 1912), Asteroidea including a few echinoids (Wood-Mason & Alcock 1891; Alcock 1893, 1894; Koehler 1909, 1910), Ophiuroidea (Koehler 1897, 1898, 1899, 1900), Echinoidea (Koehler 1914, 1922, 1927) and Holothuroidea (Koehler & Vaney 1905, 1908).

Some significant contribution to the knowledge of echinoderm fauna from India were given by James (1966a, b, 1967, 1973, 1983, 1986a, b, c, d, 1987a, b, 1988, 1991, 1998, 2001, 2008), Clark & Rowe (1971), James & James (1994), Sastry (2007), Srinivasa Rao *et al.* (2009); Deepa & Kumar (2010, 2011), Stöhr *et al.* (2012) and Hegde & Rivonker (2013).-The current paper aims at updating the checklist of echinoderms from India, assessing the extent of taxonomic inflation, identifying taxonomic inconsistencies by following international nomenclatural norms.

## Methods

The records on the distribution and abundance of echinoderms in India were sourced from the existing literature, reviews, monographs, catalogues, checklists, websites and fishery reports from Indian waters. The scientific names were validated with WoRMS database for valid names of each reported species (validating unaccepted names, emendations, synonyms, alternate representations, *nomen nudum*, *nomen dubium* etc.) and all the corrected names were revised and an updated checklist has been prepared. Species under *nomen dubium* and *nomen nudum* categories were retained as such but were not included in the checklist. The species list was classified into groups with accepted names, unaccepted names, emendations and those with doubtful distribution provided as supplementary table. The contribution of different classes within the phylum echinodermata and that of various orders in each class was estimated in percentage.

## Results

A total of 741 species of echinoderms are reported from Indian waters represented by Class Asteroidea (24.56%), followed by Holothuroidea (24.16%), Ophiuroidea (23.21%), Echinoidea (18.62%) and Crinoidea (9.45%). The percentage contribution of different Orders under each of the Classes within the Phylum Echinodermata is presented in Fig. 1. The status of species revised under each class was given in table 1.

A critical review of the published checklists revealed that the current literature included 236 incorrect entries comprising 162 synonyms, 15 emendations, 5 *nomina dubia*, 1 *nomen nudum*, 2 *taxon inquirendum*, 40 species under alternate representation, 9 species of misnomer, 1 unaccepted species and 1 subspecies inclusion. It was observed that over 85% inconsistencies in the checklist were due to synonyms (68.64%), and alternate representation (16.95%). The remaining were the constituents of emendations (6.36%), misnomer (3.81%), *nomen dubium* (2.12%), *taxon inquirendum* (0.85), *nomen nudum*, subspecies inclusion and unaccepted species with 0.42% each (Table 2). Synonymy was the predominant issue among all the classes (Fig. 2). The revised and updated checklist of echinoderms comprising 741 species from coastal and marine environment of India is provided in Table 3. Species with various inconsistencies and their status was shown in table 4 and the omitted species was produced in a supplementary table (table 5).

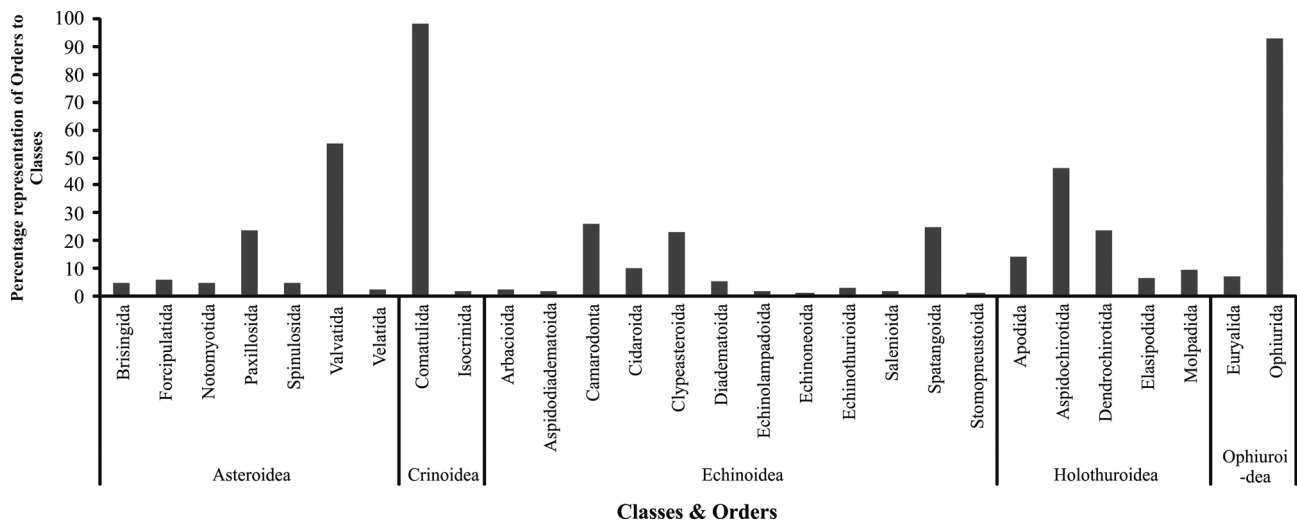


FIGURE 1. Percentage contribution of orders to classes for Phylum Echinodermata reported from India

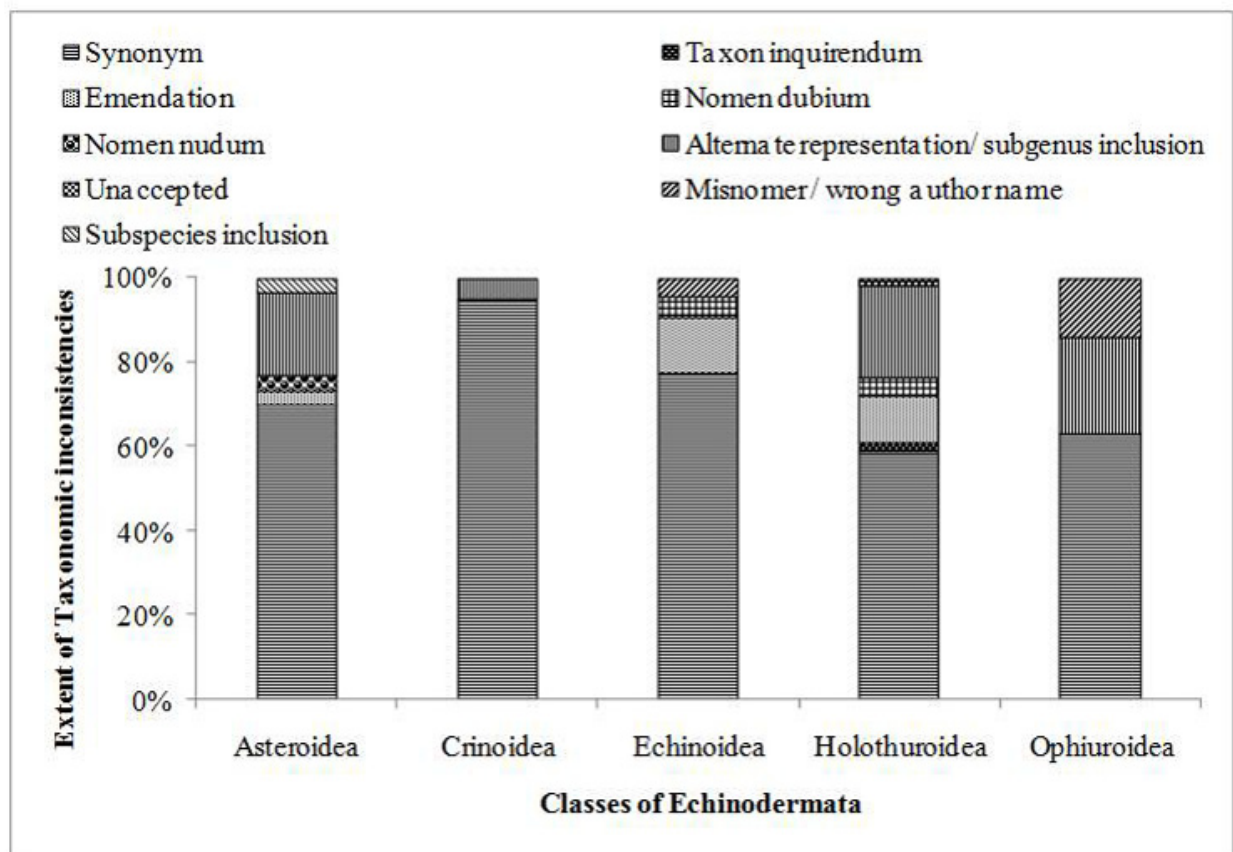


FIGURE 2. Extent of taxonomic inconsistencies in the classes under Phylum Echinodermata.

**TABLE 1.** Status of species revised in different classes under Phylum Echinodermata

Sl. No.	Classes	No. of Orders	No. of Families	No. of Species
1.	Asteroidea	7	22	182
2.	Crinoidea	2	15	70
3.	Echinoidea	12	34	138
4.	Holothuroidea	5	20	179
5.	Ophiuroidea	2	16	172
	<b>Total</b>	<b>28</b>	<b>107</b>	<b>741</b>

**TABLE 2.** Taxonomic inconsistencies among the echinoderms of Indian waters

Sl. No.	Classes	Synonym	Taxon inquirendum	Emendation	Nomen dubium	Nomen nudum	Alternate representation	subgenus inclusion Unaccepted	Misnomer / wrong author name	Subspecies inclusion	Total
1	Asteroidea	21	-	1	-	1	6		--	1	30
2	Crinoidea	36	-	-	-	-	2		-	-	38
3	Echinoidea	17	-	3	1	-	-		1	-	22
4	Holothuroidea	57	2	11	4	-	21	1	1	-	97
5	Ophiuroidea	31	-	-	-	-	11		7	-	49
	<b>Total</b>	<b>162</b>	<b>2</b>	<b>15</b>	<b>5</b>	<b>1</b>	<b>40</b>	<b>1</b>	<b>9</b>	<b>1</b>	<b>236</b>

## Discussion

A comprehensive checklist on Indian echinoderms is that of Sastry (2007), who documented a total of 651 species. Prior to this, Clark & Rowe (1971) reported 191 species from the Bay of Bengal region. A total of 175 research publications from 1758 to 2016 were referred to generate this checklist. There were many inconsistencies like synonyms, *taxon inquirendum*, *nomen nudum*, *nomen dubium*, emendations etc. Most of the emendation errors were observed in many of the publications.

Asteroids are relatively easier to identify based on their body structure, colour pattern and the disc to arm ratio, which could possibly explain their higher representation among the documented echinoderms from India. Besides, relatively higher number of taxonomic experts for asteroids and holothuroids led to addition of new species during the 80s and 90s. Holothuroids (24.16%) are second to asteroids in terms of their representation to the total echinoderm diversity. Most of the species reports are from the coral reef ecosystems such as Andaman & Nicobar Islands and Gulf of Mannar, where the collection of specimens from trawl by-catch aided in effective documentation of the diversity. The under-representation of crinoids (9.45%) in the diversity of echinoderms in India could be attributed to limited expertise, difficulty in accessing their habitats and the taxonomic impediments associated with crinoid taxonomy.

The major part of inconsistencies (68.64%) in the echinoderm checklist in India was due to synonyms, emerged as a result of nomenclatural inflation caused by unwarranted descriptions of a new taxa (Padial & Riva 2006).

The second major inconsistency in the checklist is due to alternate representations with 16.95 %. The third inconsistency arose from emendations (6.36%), which are attributed to lack of expertise or oversight within the research community. Spelling changes should be made with justification in order to uphold the *nomen's* validity.

Some inconsistencies are due to author misnomer as well as wrong year entry. Sastry *et al.* (2004) and Raghunathan & Venkataraman (2012) included the wrong author name and year Michelin, 1845 for the sea urchin *Diadema savignyi* but the authentic author & year are Audouin, 1809. Kumar (2012) reported a holothuroid *Psolidium complanatum* Cherbouner, 1969 was author misnomer. The actual author & year for the species is *Psolidium complanatum* (Semper 1867).

**TABLE 3.** Revised and updated checklist of Phylum Echinodermata from India

Species	References	
<b>Class</b>	<b>Asteroidea de Blainville, 1830</b>	
<b>Superorder</b>	<b>Forcipulatacea Blake, 1987</b>	
<b>Order</b>	<b>Brisingida Fisher, 1928</b>	
<b>Family</b>	<b>Brisingidae G.O. Sars, 1875</b>	
1	<i>Brisinga andamanica</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), James (1983b), Clark & Mah (2001) in Sastry 2005, Sastry (2007)
2	<i>Brisinga bengalensis</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), Clark & Mah (2001) in Sastry 2005, 2007
3	<i>Brisinga gunnii</i> Alcock, 1893	Alcock (1893a), Clark & Mah (2001) in Sastry 2007
4	<i>Brisinga insularum</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), Clark & Mah (2001) in Sastry 2007
5	<i>Stegnobrisinga gracilis</i> (Koehler, 1909)	Koehler (1909), Clark & Mah (2001) in Sastry 2005, Sastry (2007)
<b>Family</b>	<b>Freyellidae Downey, 1986</b>	
6	<i>Freyastera benthophila</i> (Sladen, 1889)	Wood-Mason & Alcock (1891), Alcock (1893a)
7	<i>Freyastera tuberculata</i> (Sladen, 1889)	Alcock (1893a), Clark & Mah (2001) in Sastry 2007
8	<i>Freyella indica</i> Koehler, 1909	Koehler (1909), Sastry (2005, 2007)
<b>Order</b>	<b>Forcipulatida Perrier, 1884</b>	
<b>Family</b>	<b>Asteriidae Gray, 1840</b>	
9	<i>Sclerasterias mazophora</i> (Wood-Mason & Alcock, 1891)	Wood-Mason & Alcock, (1891), Alcock (1893a), James (1983b), [Koehler (1910), Clark & Mah (2001) in Sastry 2005, 2007]
<b>Family</b>	<b>Pedicellasteridae Perrier, 1884</b>	
10	<i>Pedicellaster atratus</i> Alcock, 1893	Alcock (1893a), Clark & Mah (2001) in Sastry 2007, Sastry (2005)
<b>Family</b>	<b>Zoroasteridae Sladen, 1889</b>	
11	<i>Cnemidaster gilesi</i> (Alcock, 1893)	James (1983b), Alcock (1893a), Clark & Mah (2001) in Sastry 2005, 2007
12	<i>Cnemidaster squameus</i> (Alcock, 1893)	Alcock (1893a)
13	<i>Cnemidaster zea</i> (Alcock, 1893)	Alcock (1893a), Clark & Mah (2001) in Sastry 2007
14	<i>Zoroaster adami</i> Koehler, 1909	Koehler (1909), Sastry (2005)
15	<i>Zoroaster alfredi</i> Alcock, 1893	Alcock (1893a), [Alcock (1894), Clark & Mah (2001) in Sastry 2007]
16	<i>Zoroaster angulatus</i> Alcock, 1893	Alcock (1893a), [Clark & Mah (2001) in Sastry 2007]
17	<i>Zoroaster barathri</i> Alcock, 1893	Alcock (1893a), [Alcock (1894), Clark & Mah (2001) in Sastry 2007]
18	<i>Zoroaster carinatus</i> Alcock, 1893	Alcock (1893a), James (1983b), Sastry (2005, 2007)
19	<i>Zoroaster planus</i> Alcock, 1893	Alcock (1893a), Clark & Mah (2001) in Sastry 2007
<b>Superorder</b>	<b>Valvatacea Blake, 1987</b>	
<b>Order</b>	<b>Notomyotida Ludwig, 1910</b>	
<b>Family</b>	<b>Benthopectinidae Verrill, 1899</b>	
20	<i>Benthopecten huddlestonii</i> (Alcock, 1893)	Alcock (1893a), Clark AM (1989) in Sastry 2007
21	<i>Benthopecten indicus</i> (Koehler, 1909)	Koehler (1909) & Clark AM (1989) in Sastry 2007
22	<i>Benthopecten semisquamatus</i> (Sladen, 1889)	Wood-Mason & Alcock (1891), Alcock (1893a), Sastry (2005)

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**TABLE 3.** (Continued)

Species	References	
23	<i>Benthopecten violaceus</i> (Alcock, 1893)	Alcock (1893a), Clark AM (1989) in Sastry 2007
24	<i>Cheiraster cribellum</i> (Alcock, 1893)	Alcock (1893a), Clark AM (1989) in Sastry 2007
<b>Subgenus</b>	<b><i>Cheiraster (Cheiraster) Studer, 1883</i></b>	
25	<i>Cheiraster (Cheiraster) pilosus</i> (Alcock, 1893)	Alcock (1893a), Koehler (1909), Sastry (2007)
26	<i>Cheiraster (Cheiraster) snyderi</i> Fisher, 1906	Koehler (1909), Sastry (2005, 2007)
27	<i>Pectinaster mimicus</i> (Sladen, 1889)	Wood-Mason & Alcock (1891), Alcock (1893a), Koehler (1909), Clark AM (1989) in Sastry 2007
<b>Order</b>	<b><i>Paxillosida Perrier, 1884</i></b>	
<b>Family</b>	<b><i>Astropectinidae Gray, 1840</i></b>	
28	<i>Astropecten bengalensis</i> Döderlein, 1917	[Koehler (1910), Gravely (1941), Sastry (1995) in Sastry 2007], Clark & Rowe (1971), James (1983a), Karuppaiyan (2007), Sakthivel & Fernando (2014)
29	<i>Astropecten euryacanthus</i> Lutken, 1871	[Koehler (1910), Clark AM (1989), Sastry (1998) in Sastry 2007], Clark & Rowe (1971), Sastry (2005), Karuppaiyan (2007)
30	<i>Astropecten griegi</i> Koehler, 1909	Koehler (1909), James (1983b), Clark AM (1989) in Sastry 2007, Sastry (2005)
31	<i>Astropecten hemprichi</i> Müller & Troschel, 1842	Sladen (1889), Satyamurti (1976), James (1985), Sastry (2001) in Sastry 2007, Chamundeeswari <i>et al.</i> (2013)
32	<i>Astropecten indicus</i> Döderlein, 1888	Koehler (1910), [Gravely (1941), [Radhakrishnan & Ganapati (1968), Sastry (1995, 1998) in Sastry 2007], John (1948), Kurian (1953), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1982d, 1985, 1988), Sastry (2004), Karuppaiyan (2007), Raghunathan <i>et al.</i> (2013), Chamundeeswari <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Sakthivel & Fernando (2014)
33	<i>Astropecten inutilis</i> Koehler, 1910	Koehler (1910) & Clark AM (1989) in Sastry 2007
34	<i>Astropecten monacanthus</i> Sladen, 1883	Koehler (1910), Fisher (1919), James (1969, 1983b, 1985), Sladen (1883) in Sastry 2005, Clark & Rowe (1971), Sastry (2002, 2005, 2007), Karuppaiyan (2007), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Rao & Kumar (2014)
35	<i>Astropecten mauritianus</i> Gray, 1840	Koehler (1910), Satyamurti (1976), Karuppaiyan (2007)
36	<i>Astropecten petalodea</i> (Retzius, 1805)	Sladen (1889)
37	<i>Astropecten polyacanthus</i> Müller & Troschel, 1842	Bell (1887), Koehler (1910), [Thurston (1895), Julka & Das (1978), Clark AM (1989) in Sastry 2007], Fisher (1906, 1919), James (1969, 1982d, 1983b, 1985), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Karuppaiyan (2007), Venkataraman & Padmanaban (2013)
38	<i>Astropecten tamilicus</i> Döderlein, 1888	[Thurston (1895), Clark AM (1989) in Sastry 2007], Koehler (1910), Döderlein (1888) in Sastry 2005, James (1983b)
39	<i>Astropecten vappa</i> Müllehr & Troschel, 1843	Koehler (1910), [Clark AM (1989), in Sastry 2007], Satyamurti (1976), James (1983b), Sastry (2002, 2004, 2005)
40	<i>Astropecten velitaris</i> von Martens, 1865	Rao <i>et al.</i> (2009)
41	<i>Craspidaster hesperus</i> (Müller & Troschel, 1840)	Koehler (1910), Clark AM (1989) in Sastry 2007, Fisher (1919), James (1983b, 1985), Clark & Rowe (1971), Sastry (2005)

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TABLE 3. (Continued)

Species	References	
42	<i>Craspidaster hesperus glauconotus</i> Bedford, 1900	Koehler (1910)
43	<i>Dipsacaster pentagonalis</i> Alcock, 1893	Alcock (1893b), James (1983b), Clark AM (1989) in Sastry 2007, Sastry (2005)
44	<i>Dipsacaster sladeni</i> Alcock, 1893	Alcock (1893a), James (1983b), Clark AM (1989) in Sastry 2007, Sastry (2005)
45	<i>Dytaster insignis</i> (Perrier, 1884)	Wood-Mason & Alcock (1891), Alcock (1893a), Clark AM (1989) in Sastry 2007, Sastry (2005)
46	<i>Persephonaster coelochilus</i> Alcock, 1893	Alcock (1893a), Clark AM (1989) in Sastry 2007, Sastry (2005)
47	<i>Persephonaster croceus</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), Clark AM (1989) in Sastry 2007
48	<i>Persephonaster gracilis</i> (Sladen, 1889)	Wood-Mason & Alcock (1891), Alcock (1893a), Clark AM (1989) in Sastry 2007, Sastry (2005)
49	<i>Persephonaster rhodopeplus</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), Clark AM (1989) in Sastry 2007
50	<i>Persephonaster roulei</i> Koehler, 1909	Koehler (1909) (locality not known)
51	<i>Psilaster agassizi</i> (Koehler, 1909)	Koehler (1909), Clark AM (1989) in Sastry 2007, Sastry (2005)
<b>Family</b>	<b>Goniopectinidae Verrill, 1889</b>	
52	<i>Goniopecten</i> sp.	Sastry (2007), Karuppaiyan (2007)
<b>Family</b>	<b>Luidiidae Sladen, 1889</b>	
53	<i>Luidia denudata</i> Koehler, 1910	Koehler (1910), Clark AM (1989) in Sastry 2007
54	<i>Luidia hardwicki</i> (Gray, 1840)	Bell (1888), Sladen (1889), [Thurston (1895), Clark AM (1989), Sastry (1995, 1998) in Sastry 2007], James (1969, 1983b), Clark & Rowe (1971), Sastry (2002), Rao <i>et al.</i> (2009)
55	<i>Luidia integra</i> Koehler, 1910	Koehler (1910), Clark AM (1989) in Sastry 2007, Sastry (2005), Rao & Kumar (2014)
56	<i>Luidia maculata</i> Müller & Troschel, 1842	Bell (1888), [Thurston (1895), Koehler (1910), Clark AM (1989), in Sastry 2007], Sladen (1889), Fisher (1919), Satyamurti (1976), James (1969, 1983a & b, 1985), Clark & Rowe (1971), Sastry (2002, 2004, 2005), Rao <i>et al.</i> (2009), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Venkataraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Chamundeeswari <i>et al.</i> (2013), Rao & Kumar (2014)
57	<i>Luidia savignyi</i> (Audouin, 1826)	Koehler (1910), Clark AM (1989) in Sastry 2007, Fisher (1919), Clark & Rowe (1971), Satyamurti (1976), James (1983b), Sastry (2002, 2005), Sakthivel & Fernando (2014)
58	<i>Luidia quinaria</i> von Martens, 1865	Koehler (1910) James (1983b), Sastry (2005, 2007)
<b>Family</b>	<b>Porcellanasteridae Sladen, 1883</b>	
59	<i>Abyssaster tara</i> (Wood-Mason & Alcock, 1891)	Wood-Mason & Alcock (1891), Alcock (1893a), Sastry (2005, 2007)
60	<i>Porcellanaster ceruleus</i> Wyville Thomson, 1877	Sladen (1883, 1889) in Sastry 2005, Alcock (1893a), Clark AM (1989) in Sastry 2007, Koehler (1909), Sastry (2005, 2007),
61	<i>Sidonaster vaneyi</i> Koehler, 1909	Koehler (1909), James (1983b), Sastry (2005, 2007)
62	<i>Styracaster armatus</i> Sladen, 1883	Alcock (1893a)
63	<i>Styracaster horridus</i> Sladen, 1883	Alcock (1893a)

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TABLE 3. (Continued)

Species	References	
64	<i>Styracaster caroli</i> Ludwig, 1907	Wood-Mason & Alcock (1891), Alcock (1893a) in Sastry 2005 & 2007, Koehler (1909)
65	<i>Styracaster clavipes</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), Clark AM (1989) in Sastry 2007, Sastry (2005)
<b>Family</b>	<b>Pseudarchasteridae Sladen, 1889</b>	
66	<i>Pseudarchaster jordani</i> Fisher, 1906	Alcock (1893a)
67	<i>Pseudarchaster mozaicus</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893b), Koehler (1909), Clark AM (1993) in Sastry 2005
68	<i>Pseudarchaster roseus</i> (Alcock, 1893)	Alcock (1893a), Sastry (2007)
69	<i>Paragonaster tenuiradiis</i> Alcock, 1893	Alcock (1893a)
70	<i>Paragonaster ctenipes</i> Sladen, 1889	Sladen (1889), Wood-Mason & Alcock (1891), Sastry (2005, 2007)
<b>Order</b>	<b>Valvatida Perrier, 1884</b>	
<b>Family</b>	<b>Acanthasteridae</b>	
71	<i>Acanthaster planci</i> (Linnaeus, 1758)	Sladen (1889), Fisher (1919), James (1969, 1982d, 1983b, 1989), [Linnaeus (1758), Julka & Das (1978), James (1991), Clark AM (1993) in Sastry 2007], Clark & Rowe (1971), Sastry (2002), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Family</b>	<b>Archasteridae Viguier, 1878</b>	
72	<i>Archaster angulatus</i> Müller & Troschel, 1842	Koehler (1910) in Sastry 2005, 2007
73	<i>Archaster typicus</i> Müller & Troschel, 1840	Möbius (1859) in Sladen 1889, Bell (1887), Fisher (1909), Koehler (1910), Sukarno & Jangoux (1977) and Julka & Das (1978), Clark AM (1993) and Sastry (1999) in Sastry 2005, 2007], James (1969, 1982d, 1983b), Clark & Rowe (1971), Sastry (2001, 2002), Sastry <i>et al.</i> (2004)
<b>Family</b>	<b>Asterinidae Gray, 1840</b>	
74	<i>Anseropoda ludovici</i> (Koehler, 1909)	Koehler (1909), Clark AM (1993) in Sastry 2007
75	<i>Anseropoda pellucida</i> (Alcock, 1893)	Alcock (1893a), James (1983b), Sastry (2005, 2007)
76	<i>Anseropoda rosacea</i> (Lamarck, 1816)	Linnaeus (1758)
77	<i>Asterina lorioli</i> Koehler, 1910	Sane & Chhapgar (1962), James (1969, 1985, 1988), Clark AM (1993) in Sastry 2007
78	<i>Aquilonastra burtoni</i> (Gray, 1840)	James (1969, 1983, 1985, 1989), Clark & Rowe (1971), Satyamurti (1976), Sastry (1991, 2002, 2004, 2007), Sastry (1999) in Sastry 2005, Sadhukhan & Raghunathan (2011a), Raghunathan & Venkataraman (2012), Venkataraman & Padmanaban (2013), Rao & Kumar (2014)
79	<i>Aquilonastra cepheus</i> (Müller & Troschel, 1842)	Bell (1888), Thurston (1895), in Sastry 2007, Koehler (1910), Fisher (1919), Koehler (1910), Julka & Das (1978) in Sastry 2005 & 2007, James (1969, 1982d, 1983b, 1985), Sastry (2002), Rao <i>et al.</i> (2009), Sadhukhan & Raghunathan (2012a), Raghunathan & Venkataraman (2012)
80	<i>Aquilonastra coronata</i> (von Martens, 1866)	Gravelly (1927) in Sastry 2007, Satyamurti (1976), James (1982d, 1985)
81	<i>Cryptasterina pentagona</i> (Müller & Troschel, 1842)	James (1982d, 1983b, 1989, 1989), [Koehler (1910), Julka & Das (1978) in Sastry 2005], Sastry (2002, 2007)

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**TABLE 3.** (Continued)

Species	References
82 <i>Disasterina spinosa</i> Koehler, 1910	Koehler (1910), Clark AM (1993) in Sastry 2005, Clark & Rowe (1971), James (1983b), Sastry (2002, 2007)
83 <i>Disasterina ceylanica</i> Döderlein, 1888	James (1982d, 1983b, 1985, 1989), Clark AM (1993) in Sastry 2005, Sastry (2007)
84 <i>Indianastra sarasini</i> (deLoriol, 1897)	James (1969, 1982d, 1983b, 1985), Clark AM (1993) in Sastry 2005, 2007, Koehler (1910), Clark & Rowe (1971), Satyamurti (1976), Sastry (1997, 2001, 2002), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
85 <i>Tegulaster emburyi</i> Livingstone, 1933	Clark AM (1993) in Sastry 2005, Sastry (2002, 2007)
86 <i>Tegulaster leptalacantha</i> (H.L. Clark, 1916)	Clark & Rowe (1971), Sastry (1991, 2007)
87 <i>Tegulaster praesignis</i> (Livingstone, 1933)	[Julka & Das (1978) and Clark AM (1993) in Sastry 2005], Sastry (2002, 2007)
88 <i>Paranepanthia brachiata</i> (Koehler, 1910)	Koehler (1910), Clark AM (1993) in Sastry 2005, James (1983b), Sastry (2007)
89 <i>Parvulastra exigua</i> (Lamarck, 1816)	Koehler (1910), Clark & Rowe (1976)
<b>Family Chaetasteridae Sladen, 1889</b>	
90 <i>Chaetaster vestitus</i> Koehler, 1910	Koehler (1910), James (1983b), Sastry (2002, 2005, 2007)
<b>Family Goniasteridae Forbes, 1841</b>	
91 <i>Atthenoides sarissa</i> Alcock, 1893	Alcock (1893a), James (1983b), Clark AM (1993) in Sastry (2005, 2007)
92 <i>Astroceramus fisheri</i> Koehler, 1909	Koehler (1909), James (1983b), Clark AM (1993) in Sastry 2005, 2007
93 <i>Calliaster childreni</i> Gray, 1840	James (1983b), Clark AM (1993) in Sastry 2005, Sastry (2007), Karuppaiyan (2007)
94 <i>Calliaster mamillifer</i> Alcock, 1893	Alcock (1893b), James (1983b), Clark AM (1993) in Sastry 2005, 2007, Karuppaiyan & Raja (2007)
95 <i>Ceramaster cuenoti</i> (Koehler, 1909)	Koehler (1909), Sastry (2007)
96 <i>Circeaster magdalenae</i> Koehler, 1909	Koehler (1909), Sastry (2007)
97 <i>Circeaster marcelli</i> Koehler, 1909	Koehler (1909), Sastry (2007)
98 <i>Fromia armata</i> Koehler, 1910	Koehler (1910), [Julka & Das (1978), Clark AM (1993) in Sastry 2005 & 2007], James (1983b), Sastry (2002, 2007)
99 <i>Fromia indica</i> (Perrier, 1869)	Perrier (1869), Bell (1887, 1888), Sladen (1889), Koehler (1909), Clark AM (1967), James (1969, 1983b, 1989), Clark & Rowe (1971), [Clark AM (1993), in Sastry 2005 & 2007], Sastry (1998, 2001, 2002), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar, (2014)
100 <i>Fromia milleporella</i> (Lamarck, 1816)	Bell (1888), Clark & Rowe (1971), James (1989), Sastry (2002, 2005, 2007), Raghunathan & Venkataraman (2012)
101 <i>Fromia monilis</i> (Perrier, 1869)	[Julka & Das (1978), Clark AM (1993), Sastry (1998) in Sastry 2005 & 2007], Marsh & Price (1991), Sastry (2002), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar, (2014)
102 <i>Johannaster superbus</i> Koehler, 1909	Koehler (1909), Clark AM (1993) in Sastry 2007
103 <i>Lithosoma pentaphylla</i> (Alcock, 1893)	Alcock (1893a), Koehler (1909), James (1983b), Sastry (2005, 2007)

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**TABLE 3.** (Continued)

Species	References	
104	<i>Litonotaster intermedius</i> (Perrier, 1884)	Bell (1887), Alcock (1893a), Sastry (2007)
105	<i>Mediaster arcuatus</i> (Sladen, 1889)	Alcock (1893a), James (1983b), Sastry (2005, 2007)
106	<i>Milteliphaster woodmasoni</i> Alcock, 1893	Alcock (1893a), Sastry (2005, 2007)
107	<i>Neoferdina offreti</i> (Koehler, 1910)	Koehler (1910), Clark AM (1993) in Sastry 2005 & 2007, Clark & Rowe (1971), James (1983b), Sastry (2002)
108	<i>Nymphaster arenatus</i> (Perrier, 1881)	Alcock (1893a), Koehler (1909)
109	<i>Nymphaster moebii</i> (Studer, 1884)	Koehler (1909), James (1983b), Sastry (2005, 2007)
110	<i>Nymphaster nora</i> Alcock, 1893	Alcock (1893a), James (1983b), Sastry (2005, 2007)
111	<i>Ogmaster capella</i> (Müller & Troschel, 1842)	Clark & Rowe (1971), Sastry (2005, 2007)
112	<i>Plinthaster doederleini</i> (Koehler, 1909)	Sastry (2007)
113	<i>Plinthaster investigatoris</i> (Alcock, 1893)	Alcock (1893a), Sastry (2007)
114	<i>Rosaster confinis</i> (Koehler, 1910)	Koehler (1910), Sastry (2005, 2007)
115	<i>Rosaster florifer</i> (Alcock, 1893)	Alcock (1893a), James (1983b), Clark AM (1993) in Sastry 2005, Sastry (2007)
116	<i>Siraster tuberculatus</i> H.L. Clark, 1915	James (1985, 1996), Sastry (2007)
117	<i>Stellaster childreni</i> Gray, 1840	Fisher (1919), Satyamurti (1976), James (1983a, 1985, 1996), Koehler (1910), Sastry (1998) in Sastry 2005, Clark & Rowe (1971), Sastry 2007, Karuppaiyan (2007), Chamundeeswari <i>et al.</i> (2013), Raghunathan <i>et al.</i> (2013), Sakthivel & Fernando (2014)
<b>Subfamily</b>	<b>Pentagonasterinae Perrier, 1884</b>	
118	<i>Pseudoceramaster pulvinus</i> (Alcock, 1893)	Alcock (1893a), Sastry (2007)
119	<i>Pentagonaster</i> sp.	Sastry (1995, 1998) in Sastry 2007
<b>Family</b>	<b>Asterodiscididae Rowe, 1977</b>	
120	<i>Asterodiscides elegans</i> (Gray, 1847)	Satyamurti (1976), James (1969, 1983, 1985), Sastry (2007)
<b>Family</b>	<b>Asteropseidae Hotchkiss &amp; Clark, 1976</b>	
121	<i>Asteropsis carinifera</i> (Lamarck, 1206)	James (1989), Sastry (1999) in Sastry 2005, Sastry (1991, 2002, 2007), Sastry <i>et al.</i> (2004), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
122	<i>Valvaster striatus</i> (Lamarck, 1816)	Koehler (1910), [Clark AM (1993) and Sastry (1999) in Sastry 2005], Clark & Rowe (1971), Sastry (2002, 2007)
<b>Family</b>	<b>Ophidiasteridae Verrill, 1870</b>	
123	<i>Certonardoa semiregularis</i> (Müller & Troschel, 1842)	Clark & Rowe (1971), Sastry (2007)
124	<i>Cistina columbiae</i> Gray, 1840	James (1989), Sastry (2007)
125	<i>Dactylosaster cylindricus</i> (Lamarck, 1816)	Nagabhushanam & Rao (1972), James (1969, 1989), Sastry (1991, 1997, 2001, 2002, 2007), Sastry (1999) in Sastry 2005, Sastry <i>et al.</i> (2004), Karuppaiyan (2007)
126	<i>Gomophia egyptiaca</i> Gray, 1840	Sladen (1889), Koehler (1910), Clark & Rowe (1971), James 1983b, Sastry (2002, 2005, 2007)
127	<i>Heteronardoa carinata</i> (Koehler, 1910)	Koehler (1910), James 1983b, Sastry (2002, 2005, 2007)
128	<i>Leiaster glaber</i> Peters, 1852	Koehler (1910) Clark & Rowe (1971), James (1983b), Sastry (2002, 2005, 2007)
129	<i>Leiaster leachi</i> (Gray, 1840)	James (1969, 1989), Sastry (1991, 2007)

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**TABLE 3.** (Continued)

Species	References
130 <i>Linckia guildingi</i> Gray, 1840	Bell (1887), Sladen (1889), Koehler (1910), Sastry (1999) in Sastry 2005, Fisher (1919), James (1969, 1982d, 1983b, 1989), Clark & Rowe (1971), Sastry (1991, 1997, 2002, 2007), Sastry <i>et al.</i> (2004), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
131 <i>Linckia laevigata</i> (Linnaeus, 1758)	Bell (1887, 1888), Koehler (1910), [Julka & Das (1978), James (1991), Sastry (1999) in Sastry 2005], Fisher (1919), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1989), Sastry (1991, 2001, 2002, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Rao & Kumar (2014)
132 <i>Linckia multifora</i> (Lamarck, 1816)	Nagabhushanam & Rao (1972), James (1969, 1982d, 1985, 1989), [Julka & Das (1967) in Sastry 2005], Sastry (1991, 1997, 2002, 2007), Sastry <i>et al.</i> (2004), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Venkataraman <i>et al.</i> (2013)
133 <i>Nardoa frianti</i> Koehler, 1910	Koehler (1910), Fisher (1919), James (1983b), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Karupaiyan (2007), Sadhukhan & Raghunathan (2012c)
134 <i>Nardoa galathea</i> (Lütken, 1865)	Bell (1887), Sladen (1889), Fisher (1919), Clark & Rowe (1971), Clark AM (1993), James (1983a), Koehler (1910), [Julka & Das (1978), Clark AM (1993) in Sastry 2005 & 2007], Sastry (2002), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a,c), Raghunathan & Venkataraman (2012), Rao & Kumar (2014)
135 <i>Nardoa novaecaledoniae</i> (Perrier, 1875)	Bell (1887), Sladen (1889), [Thurston (1895), Clark AM (1993) in Sastry 2007], James (1969), Sadhukhan & Raghunathan (2012c)
136 <i>Nardoa tuberculata</i> Gray, 1840	Sadhukhan & Raghunathan (2012a,c), Rao & Kumar (2014)
137 <i>Nardoa variolata</i> (Retzius, 1805)	Karupaiyan (2007)
138 <i>Ophidiaster armatus</i> Koehler, 1910	Koehler (1910), Clark AM (1993) in Sastry 2005, James (1983b), Sastry (2002, 2007), Rao & Kumar (2014)
139 <i>Ophidiaster hemprichi</i> Müller & Troschel, 1842	Julka & Das (1978) in Sastry 2005 & 2007, Sastry (2002)
140 <i>Ophidiaster tuberifer</i> Sladen, 1889	Koehler (1910)
141 <i>Paraferdina laccadivensis</i> James, 1973	James (1973, 1989), Marsh & Price (1991), Sastry (1991), Clark AM (1993) in Sastry 2007
142 <i>Tamaria dubiosa</i> (Koehler, 1910)	Koehler (1910), Clark AM (1993) in Sastry 2005, 2007, Fisher (1919), Clark & Rowe (1971), James (1983b), Sastry (2002), Karupaiyan (2007)
143 <i>Tamaria fusca</i> Gray, 1840	James (1983b), Sastry (2005, 2007)
144 <i>Tamaria hirsuta</i> (Koehler, 1910)	Koehler (1910), Clark AM (1993) in Sastry 2005, 2007
145 <i>Tamaria megaloplax</i> (Bell, 1884)	[Koehler (1910, Julka & Das (1978), Clark AM (1993) in Sastry 2005, 2007], James (1983b), Sastry (2002), Karupaiyan (2007)

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TABLE 3. (Continued)

Species		References
<b>Subgenus</b>	<b><i>Andora (Andora)</i> A.M. Clark, 1967</b>	
146	<i>Andora (Andora) faouzii</i> (Macan, 1938)	James (1973, 1985), Sastry (2007), Rao & Kumar (2014)
<b>Subspecies</b>	<b><i>Dactylosaster cylindricus cylindricus</i></b>	James (1969), Raghunathan & Venkataraman (2012)
147	(Lamarck, 1816)	
<b>Family</b>	<b>Oreasteridae Fisher, 1911</b>	
148	<i>Anthenea pentagonula</i> (Lamarck, 1816)	Sladen (1889), Satyamurti (1976), Clark & Rowe (1971), James (1983a & b, 1985, 1996), Sastry (2002, 2007), Clark AM (1993) in Sastry 2005, Karupaiyan (2007), Rao <i>et al.</i> (2009), Venkataraman & Padmanaban (2013), Chamundeeswari <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013)
149	<i>Anthenea tuberculosa</i> Gray, 1847	James (1969), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013)
150	<i>Anthenea regalis</i> Koehler, 1910	Koehler (1910), Satyamurti (1976), James (1996)
151	<i>Anthenea rudis</i> Koehler, 1910	James (1969, 1996), Satyamurti (1976), Sastry (2004)
152	<i>Choriaster granulatus</i> Lütken, 1869	Sastry (1999) in Sastry 2005, Sastry (2002, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
153	<i>Culcita novaeguineae</i> Müller & Troschel, 1842	Sladen (1889), [Retzius (1805), Haldar & Chakrapani (1976) in Sastry 2005 & 2007], Koehler (1910), Clark & Rowe (1971), Julka & Das (1978), Sastry (1991, 1999) and Clark AM (1993), James (1991), James (1969, 1983b, 1989), Sastry (2001, 2002), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
154	<i>Culcita schmideliana</i> (Retzius, 1805)	Bell (1887), Sladen (1889), Koehler (1910), James (1982d, 1985, 1989), Sastry (1991, 2002, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
155	<i>Goniodiscaster forficulatus</i> (Perrier, 1875)	Koehler (1910), Fisher (1919), James (1969), Clark & Rowe (1971), Sastry (2007)
156	<i>Goniodiscaster granuliferus</i> (Gray, 1847)	Satyamurti (1976)
157	<i>Goniodiscaster porosus</i> (Koehler, 1910)	Koehler (1910)
158	<i>Goniodiscaster scaber</i> (Moebius, 1859)	James (1983, 1985), Clark & Rowe (1971), Sastry (2007), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
159	<i>Goniodiscaster vallei</i> (Koehler, 1910)	Clark & Rowe (1971), James (1996), Karupaiyan (2007)
160	<i>Halityle regularis</i> Fisher, 1913	James (1973, 1989), Sastry (2007)
161	<i>Pentaceraster affinis</i> (Müller & Troschel, 1842)	Sladen (1889), Satyamurti (1976), James (1969, 1983, 1985), Clark & Rowe (1971), Sastry (2007), Karupaiyan (2007), Chamundeeswari <i>et al.</i> (2013), Sakthivel & Fernando (2014)
162	<i>Pentaceraster gracilis</i> (Lütken, 1871)	Sastry (2007)
163	<i>Pentaceraster horridus</i> (Gray, 1840)	Karupaiyan (2007), Karupaiyan & Raja (2007)
164	<i>Pentaceraster mammillatus</i> (Audouin, 1826)	Sladen (1889), CMFRI (2011), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
165	<i>Pentaceraster multispinus</i> (von Martens, 1866)	Satyamurti (1976), Sastry (2007)

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**TABLE 3.** (Continued)

Species	References	
166	<i>Pentaceraster regulus</i> (Müller & Troschel, 1842)	Sladen (1889), Müller & Troschel (1842), James (1982d, 1983, 1985, 1989), Clark & Rowe (1971), Sastry (1991, 2007), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Chamundeeswari <i>et al.</i> (2013), Raghunathan <i>et al.</i> (2013), Sakthivel & Fernando (2014)
167	<i>Pentaceraster westermanni</i> (Lutken, 1871)	Sladen (1889), Clark & Rowe (1971), Sastry (2007)
168	<i>Poraster superbus</i> (Möbius, 1859)	Sladen (1889), Koehler (1910), James (1969), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Karupaiyan (2007)
169	<i>Protoreaster lincki</i> (Blainville, 1830)	[Lütken (1865), Koehler (1910), Julka & Das (1978), Sastry (1999) in Sastry 2005], Sladen (1889), Satyamurti (1976), James (1969, 1983b, 1985), Clark & Rowe (1971), Sastry (2002, 2007), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Chamundeeswari <i>et al.</i> (2013), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
170	<i>Protoreaster nodosus</i> (Linnaeus, 1758)	James (1969), Julka & Das (1978) and Sastry (1999) in Sastry 2005, Sastry (2002, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013)
<b>Order</b>	<b>Velatida</b>	
<b>Family</b>	<b>Pterasteridae Perrier, 1875</b>	
171	<i>Euretaster cribrosus</i> (von Martens, 1867)	Julka & Das (1978) in Sastry 2005, 2007, Clark & Rowe (1971), James (1983b, 1985), Sastry (2002)
172	<i>Hymenaster alcocki</i> Koehler, 1909	Koehler (1909), Koehler (1910) in Sastry 2005, Sastry (2007)
173	<i>Hymenaster nobilis</i> Wyville Thomson, 1876	Wood-Mason & Alcock (1891), Alcock (1893a), Sastry (2005)
174	<i>Pteraster hirsutus</i> (Sladen, 1882)	Wood-Mason & Alcock (1891), Alcock (1893a)
<b>Superorder</b>	<b>Spinulosacea Blake, 1987</b>	
<b>Order</b>	<b>Spinulosida Perrier, 1884</b>	
<b>Family</b>	<b>Echinasteridae Verrill, 1870</b>	
175	<i>Dictyaster xenophilus</i> Wood-Mason & Alcock, 1891	Wood-Mason & Alcock (1891), Alcock (1893a), Sastry (2005, 2007)
176	<i>Echinaster callosus</i> Marenzeller, 1895	Koehler (1910), Clark AM (1996) in Sastry 2005, 2007, Fisher (1919), James (1969, 1983b), Sastry (2002)
177	<i>Echinaster luzonicus</i> (Gray, 1840)	Koehler (1910), James (1969), Soota and Sastry (1979), Clark AM (1996) in Sastry 2005 & 2007, Sastry (2002, 2004), Karupaiyan (2007), Raghunathan <i>et al.</i> (2013)
178	<i>Echinaster superbus</i> H.L. Clark, 1916	Karupaiyan (2007), Rao & Kumar (2014)
179	<i>Echinaster purpureus</i> (Gray, 1840)	Bell (1888), Sladen (1889), [Thurston (1895), Clark AM (1996) in Sastry 2005, 2007], Fisher (1919), Clark & Rowe (1971), Satyamurti (1976), Soota & Sastry (1979), James (1983b, 1985), Sastry (2004), Karupaiyan (2007), Rao <i>et al.</i> (2009), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
180	<i>Henricia mutans</i> (Koehler, 1909)	Koehler (1909), James (1983b), Clark AM (1996) in Sastry 2005, 2007
181	<i>Henricia praestans</i> (Sladen, 1889)	Alcock (1893a), Sastry (2005)
182	<i>Metrodira subulata</i> Gray, 1840	Koehler (1910), [Julka & Das (1978), Clark AM (1996) in Sastry 2005], Fisher (1919), James (1969, 1983b), Clark & Rowe (1971), Sastry (2002, 2007)

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TABLE 3. (Continued)

Species		References
<b>Class</b>	<b>Crinoidea</b>	
<b>Subclass</b>	<b>Articulata Zittel, 1879</b>	
<b>Order</b>	<b>Comatulida</b>	
<b>Family</b>	<b>Bathycrinidae Bather, 1899</b>	
<b>Subfamily</b>	<b>Bathycrininae Bather, 1899</b>	
183	<i>Bathycrinus woodmasoni</i> AH Clark, 1909	Clark AH (1909a, 1912b), James (1983b), Sastry (2005, 2007)
<b>Superfamily</b>	<b>Antedonoidea Norman, 1865</b>	
<b>Family</b>	<b>Antedonidae Norman, 1865</b>	
<b>Subfamily</b>	<b>Antedoninae incertae sedis</b>	
184	<i>Athrypsometra mira</i> (AH Clark, 1909)	Clark AH (1909b, 1912a,b), Clark AH & AM Clark (1967), James (1983b), Sastry (2005, 2007), Raghunathan & Venkataraman (2012)
<b>Subfamily</b>	<b>Antedoninae (Norman, 1865)</b>	
185	<i>Andrometra indica</i> (AH Clark, 1909)	Clark AH & AM Clark (1967), Sastry (2005, 2007)
186	<i>Thaumatocrinus</i> sp.	Clark AH (1912b)
187	<i>Dorometra nana</i> (Hartlaub, 1890)	Clark AH (1912b), Clark AH & AM Clark (1967), Clark & Rowe (1971), James (1983b), Sastry (2002, 2005, 2007)
188	<i>Euantedon</i> sp.	Sastry (2004) in Sastry 2007
189	<i>Mastigometra micropoda</i> AH Clark, 1909	?Clark AH (1909b)
<b>Subfamily</b>	<b>Bathymetrinae AH Clark, 1909</b>	
190	<i>Fariometra obscura</i> (AH Clark, 1909)	Clark AH (1909a, 1912b), Clark AH & AM Clark (1967), Sastry (2007)
191	<i>Thaumatometra plana</i> (AH Clark, 1912)	Clark AH (1912b), Sastry (2007)
<b>Family</b>	<b>Pentametrocrinidae AH Clark, 1908</b>	
192	<i>Pentametrocrinus varians</i> (Carpenter, 1882)	Carpenter (1882) and Clark AH (1912b) in Sastry (2005), Sastry (2007)
193	<i>Thaumatocrinus investigatoris</i> AH Clark (in AH Clark & AM Clark, 1967)	Clark AH & AM Clark (1967), Sastry (2007)
<b>Family</b>	<b>Zenometridae AH Clark, 1909</b>	
194	<i>Sarametra triserialis</i> (AH Clark, 1908)	Clark AH (1929), Clark AH & AM Clark (1967), James (1983b), Sastry (2005, 2007)
<b>Superfamily</b>	<b>Comatuloidea Fleming, 1828</b>	
<b>Family</b>	<b>Comatulidae Fleming, 1828</b>	
<b>Subfamily</b>	<b>Comatulinae Fleming, 1828</b>	
<b>Tribe</b>	<b>Capillasterini AH Clark, 1909</b>	
195	<i>Capillaster mariae</i> (AH Clark, 1907)	Clark AH (1912b), James (1983b), Sastry (2002, 2005, 2007)
196	<i>Capillaster multiradiatus</i> (Linnaeus, 1758)	Linnaeus (1758) in Sastry 2005 & 2007, Bell (1888), [Thurston (1898), Sastry (1997) in Sastry 2007], Clark AH (1912b, 1931, 1932), Clark & Rowe (1971), Clark AM (1972), James (1983b, 1985, 1988), Sastry (1997, 2002), Venkataraman <i>et al.</i> (2011)
<b>Tribe</b>	<b>Comasterini AH Clark, 1908</b>	
197	<i>Anneissia bennetti</i> (Müller, 1841)	Clark AH (1912b, 1931), Sastry (2001, 2002, 2005, 2007), Venkataraman <i>et al.</i> (2011), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)

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**TABLE 3.** (Continued)

Species	References	
198	<i>Clarkcomanthus alternans</i> (Carpenter, 1881)	Sadhukhan & Raghunathan (2012a,b)
199	<i>Comaster multifidus</i> (Müller, 1841)	Crossland & Price (1999), Sastry (1999) in Sastry 2007, Sastry (2001, 2002, 2005), Venkataraman <i>et al.</i> (2011)
200	<i>Comaster nobilis</i> (Carpenter, 1884)	Sastry (1997, 2005, 2007), Venkataraman <i>et al.</i> (2011), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Sastry (2007), Rao & Kumar (2014)
201	<i>Comaster schlegelii</i> (Carpenter, 1881)	Clark AH (1912b), James (1969, 1985, 1988), Clark & Rowe (1971), Sastry (2005, 2007), Karupaiyan (2007), Venkataraman <i>et al.</i> (2011), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
202	<i>Comanthus parvicirrus</i> (Müller, 1841)	Bell (1888), Thurston (1898) in Sastry 2007, Clark AH (1912b, 1931, 1932), Clark AM (1972), James (1969, 1985, 1988), Sastry (1997, 2001, 2002, 2005), Clark & Rowe (1971), Karupaiyan (2007), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
203	<i>Comanthus wahlbergii</i> (Müller, 1843)	Clark AH (1912b), Crossland & Price (1999), Sastry (1999) in Sastry 2007, Sastry (2001, 2002, 2004, 2005), Venkataraman <i>et al.</i> (2011)
<b>Tribe</b>	<b>Phanogeniini White &amp; Messing, 2001 (in White <i>et al.</i> 2001)</b>	
204	<i>Phanogenia distincta</i> (Carpenter, 1888)	Clark AH (1909a), 1912b), James (1983b), Sastry (2005, 2007)
205	<i>Phanogenia gracilis</i> (Hartlaub, 1893)	Clark AH (1912b, 1931), Clark & Rowe (1971), James (1983b, 1985, 1988), Sastry (2002, 2005, 2007)
206	<i>Phanogenia multibrachiata</i> (Carpenter, 1888)	Clark AH (1912b, 1931), Clark & Rowe (1971), James (1983b), Sastry (2002, 2005, 2007), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Tribe</b>	<b>Comatulini Fleming, 1828</b>	
<b>Subgenus</b>	<b><i>Comatula</i> (Comatula) Lamarck, 1816</b>	
207	<i>Comatula</i> (Comatula) <i>micraster</i> AH Clark, 1909	Clark AH (1909a), 1912b), James (1983b), Sastry (2005, 2007)
208	<i>Comatula</i> (Comatula) <i>pectinata</i> (Linnaeus, 1758)	Clark AH (1912b, 1932), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Venkataraman <i>et al.</i> (2011)
<b>Subfamily</b>	<b>Comatellinae Summers, Messing, Rouse, 2014</b>	
209	<i>Comatella nigra</i> (Carpenter, 1888)	Sastry (1998, 1999) in Sastry 2007, Sastry (2001, 2002, 2005), Sastry & Satyanarayana (2009)
210	<i>Comatella stelligera</i> (Carpenter, 1888)	Clark AH (1932), James (1969, 1983b, 1985, 1988), Clark & Rowe (1971), Sastry (1997, 2001, 2002, 2005), Sastry (1999) in Sastry 2007, Karupaiyan (2007), Sastry & Satyanarayana (2009)
<b>Superfamily</b>	<b>Himerometroidea AH Clark, 1908</b>	
<b>Family</b>	<b>Colobometridae AH Clark, 1909</b>	
211	<i>Cenometra bella</i> (Hartlaub, 1890)	Clark AH (1912b, 1947), Clark & Rowe (1971), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012a, b), Raghunathan <i>et al.</i> (2013)

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**TABLE 3.** (Continued)

Species	References	
212	<i>Cenometra emendatrix</i> (Bell, 1892)	Karuppaiyan (2007), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
213	<i>Colobometra discolor</i> AH Clark, 1909	Clark AH (1909b, 1912b), Sastry (2002, 2005, 2007)
214	<i>Colobometra perspinosa</i> (Carpenter, 1881)	Venkataraman <i>et al.</i> (2011), Nigam <i>et al.</i> (2016)
215	<i>Cotylometra gracilicirra</i> (AH Clark, 1908)	Clark AH (1912b), Sastry (2002, 2005, 2007)
216	<i>Decametra brevicirra</i> (AH Clark, 1912)	?Clark AH (1912b)
217	<i>Decametra mylitta</i> AH Clark, 1912	Clark AM (1972)
218	<i>Iconometra intermedia</i> (AH Clark, 1912)	Clark AH (1912a), James (1983b), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
219	<i>Oligometra serripinna</i> (Carpenter, 1881)	Clark AH (1912b, 1932), Clark & Rowe (1971), Sastry (2002, 2007), Venkataraman <i>et al.</i> (2011), Raghunathan <i>et al.</i> (2013)
220	<i>Oligometrides adeonae</i> (Lamarck, 1816)	Bell (1888)
221	<i>Pontiometra andersoni</i> (Carpenter, 1889)	Clark AH (1912b), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Venkataraman <i>et al.</i> (2011), Raghunathan <i>et al.</i> (2013)
<b>Family</b>	<b>Eudiocrinidae AH Clark, 1907</b>	
222	<i>Eudiocrinus ornatus</i> AH Clark, 1909	Clark AH (1909b, 1912b, 1932), James (1983b), Sastry (2005, 2007)
<b>Family</b>	<b>Himerometridae AH Clark, 1907</b>	
223	<i>Amphimetra mollerii</i> (AH Clark, 1908)	Clark AH (1918), Sastry (2002, 2007), Karuppaiyan (2007), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012b), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
224	<i>Amphimetra tessellata</i> (Müller, 1841)	Clark AH (1918, 1982)
225	<i>Craspedometra acuticirra</i> (Carpenter, 1882)	Clark AH (1912b), James (1983b), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
226	<i>Heterometra bengalensis</i> (Hartlaub, 1890)	Clark AH (1912b), James (1983b), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
227	<i>Heterometra compta</i> AH Clark, 1909	Clark AH (1909b, 1912b), Sastry (2007)
228	<i>Heterometra crenulata</i> (Carpenter, 1882)	Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012b), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
229	<i>Heterometra flora</i> (AH Clark, 1913)	Clark AM (1972)
230	<i>Heterometra philiberti</i> (Müller, 1849)	Clark AH (1909b, 1912b), Clark & Rowe (1971), James (1983b), Sastry (2002, 2005, 2007), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
231	<i>Heterometra reynaudi</i> (Müller, 1846)	Bell (1888), Thurston (1895) in Sastry 2007, Clark AH (1912a,b, 1932), Clark & Rowe (1971), James (1983b, 1985, 1988)
232	<i>Heterometra quinduplicava</i> (Carpenter, 1888)	Clark AH (1912b), Clark & Rowe (1971), Sastry (2002, 2005, 2007),
233	<i>Himerometra robustipinna</i> (Carpenter, 1881)	Clark & Rowe (1971), Sastry (1997, 2002, 2005), Sastry (1998) in Sastry 2007, Venkataraman <i>et al.</i> (2011), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2012a), Sastry (2007), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Family</b>	<b>Mariametridae AH Clark, 1909</b>	
234	<i>Dichrometra ciliata</i> AH Clark, 1912	Clark AH (1912b), Sastry (2007)

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**TABLE 3.** (Continued)

Species	References	
235	<i>Lamprometra palmata</i> (Müller, 1841)	Bell (1888), Clark AH (1912b, 1932), Gravely (1941) in Sastry 2007, Sane & Chhapgar (1962), Clark & Rowe (1971), Rao & Sowbhagyavathi (1972), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1988), Sastry (2001, 2002, 2004, 2005), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
236	<i>Oxymetra finschii</i> (Hartlaub, 1890)	Clark AH (1909a, 1912b), Sastry (2005, 2007)
237	<i>Stephanometra indica</i> (Smith, 1876)	Thurston (1895), in Sastry 2007, Clark AH (1912b), James (1985, 1988), Clark & Rowe (1971), Crossland & Price (1999), Sastry (2001, 2002, 2004, 2005, 2007), Venkataraman <i>et al.</i> (2011)
238	<i>Stephanometra tenuipinna</i> (Hartlaub, 1890)	Clark AH (1909b, 1912b)
<b>Family</b>	<b>Zygometridae AH Clark, 1908</b>	
239	<i>Zygometra andromeda</i> AH Clark, 1912	Clark AH (1912a, 1941), Venkataraman <i>et al.</i> (2011)
<b>Superfamily</b>	<b>Tropiometroidea AH Clark, 1908</b>	
<b>Family</b>	<b>Calometridae AH Clark, 1911</b>	
240	<i>Neometra spinosissima</i> (AH Clark, 1909)	Clark AH (1909a, 1912b), James (1983b), Sastry (2005, 2007)
<b>Family</b>	<b>Charitometridae AH Clark, 1909</b>	
241	<i>Glyptometra crassa</i> (AH Clark, 1912)	Clark AH (1950), Sastry (2007)
242	<i>Glyptometra invenusta</i> (AH Clark, 1909)	Clark AH (1909a, 1912b, 1950), James (1983b), Sastry (2005, 2007)
243	<i>Glyptometra macilenta</i> (AH Clark, 1909)	Clark AH (1909a, 1912b, 1950), James (1983b), Sastry (2005, 2007)
<b>Family</b>	<b>Thalassometridae AH Clark, 1908</b>	
244	<i>Crinometra brevipinna</i> (Pourtalès, 1868)	Clark AH (1931, 1932), James (1983b), Sastry (2002, 2005, 2007)
245	<i>Crotalometra rustica</i> AH Clark, 1909	Clark AH (1929, 1950), James (1983b), Sastry (2005)
246	<i>Crotalometra sentifera</i> AH Clark, 1909	Clark AH (1909a, 1912b, 1950), Sastry (2007)
247	<i>Stiremetra carinifera</i> AH Clark, 1912	Clark AH (1912b, 1950), Sastry (2007)
248	<i>Thalassometra gracilis</i> (Carpenter, 1888)	Clark AH (1912b), Sastry (2005)
249	<i>Thalassometra marginata</i> AH Clark, 1912	Clark AH (1912b, 1950)
250	<i>Thalassometra peripolos</i> AH Clark, 1929	Clark AH (1929, 1950), James (1983b), Sastry (2005, 2007)
<b>Family</b>	<b>Tropiometridae AH Clark, 1908</b>	
251	<i>Tropiometra carinata</i> (Lamarck, 1816)	Clark AH (1912b, 1932, 1947), Gravely (1941) in Sastry 2007, James (1969, 1982d, 1983, 1985, 1988), James (1969), Clark & Rowe (1971), Rao & Sowbhagyavathi (1972), Satyamurti (1976), Karuppaiyan (2007), Venkataraman <i>et al.</i> (2011, 2013)
<b>Order</b>	<b>Isocrinida, Sieverts-Doreck, 1952</b>	
<b>Suborder</b>	<b>Isocrinina, Sieverts-Doreck, 1952</b>	
<b>Family</b>	<b>Cainocrinidae Simms, 1988</b>	
252	<i>Teliocrinus springeri</i> (AH Clark, 1909)	Clark AH (1909b, 1912b), James (1983b), Sastry (2005, 2007)
<b>Class</b>	<b>Echinoidea Leske, 1778</b>	
<b>Subclass</b>	<b>Cidaroida Smith, 1984</b>	
<b>Order</b>	<b>Cidaroida Claus, 1880</b>	
<b>Superfamily</b>	<b>Cidaridea Gray, 1825</b>	

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**TABLE 3.** (Continued)

Species	References
<b>Family</b>	<b>Cidaridae Gray, 1825</b>
<b>Subfamily</b>	<b>Cidarinae Mortensen, 1928</b>
253	<i>Eucidaris metularia</i> (Lamarck, 1816) Koehler (1927), Nagabhushanam & Rao (1972), James (1969, 1983b, 1989), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
<b>Tribe</b>	<b>Phyllacanthina Smith &amp; Wright, 1989</b>
254	<i>Phyllacanthus forcipulatus</i> Mortensen, 1936 Mortensen (1936), Clark & Rowe (1971), Sastry (2007)
255	<i>Phyllacanthus imperialis</i> (Lamarck, 1816) James (1969), Clark & Rowe (1971), Sastry (1997, 2002, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Rao & Kumar (2014)
<b>Subfamily</b>	<b>Stereocidarinae Lambert, 1900</b>
256	<i>Stereocidaris alcocki</i> (Anderson, 1894) Anderson (1894), Koehler (1927), James (1983b), Sastry (2005, 2007)
257	<i>Stereocidaris indica</i> Döderlein, 1901 Döderlein (1901), Koehler (1927), James (1983b), Sastry (2005, 2007)
<b>Subfamily</b>	<b>Stylocidarinae Mortensen, 1903</b>
258	<i>Prionocidaris baculosa</i> (Lamarck, 1816) Clark HL (1925), James (1983b), Sastry (2005, 2007), Karupaiyan (2007)
<b>Subspecies</b>	<i>Prionocidaris baculosa annulifera</i> (A. Agassiz, 1873) Koehler (1927)
259	
260	<i>Plococidaris verticillata</i> (Lamarck, 1816) Clark HL (1925), James (1983b, 1989), Sastry (1997, 2002, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
261	<i>Stylocidaris albidens</i> H.L. Clark, 1925a Koehler (1927), James (1983b), Sastry (2005, 2007)
262	<i>Stylocidaris brevicollis</i> (de Meijere, 1904) Koehler (1927), Sastry (2005, 2007)
263	<i>Stylocidaris lorioli</i> (Koehler, 1927) Koehler (1927), James (1983b), Sastry (2007)
264	<i>Stylocidaris tiara</i> (Anderson, 1894) Koehler (1927), James (1983b), Sastry (2005, 2007)
<b>Superfamily</b>	<b>Histocidaroidea Lambert, 1900</b>
<b>Family</b>	<b>Histocidaridae Lambert, 1900</b>
265	<i>Histocidaris denticulata</i> Koehler, 1927 Koehler (1927), Mortensen (1928) in Sastry 2007, James (1983b)
266	<i>Histocidaris purpurata</i> (Thomson, 1872) Döderlein (1906), Mortensen (1928) in Sastry 2005, Sastry (2007)
<b>Subclass</b>	<b>Euechinoidea Bronn, 1860</b>
<b>Order</b>	<b>Echinothurioida Claus, 1880</b>
<b>Family</b>	<b>Echinothuriidae Thomson, 1872</b>
<b>Subfamily</b>	<b>Hygrosomatinae Smith &amp; Wright, 1990</b>
267	<i>Hygrosoma luculentum</i> (A. Agassiz, 1879) Koehler (1927), James (1983b), Sastry (2007)
<b>Subfamily</b>	<b>Sperosomatinae Smith &amp; Wright, 1990</b>
268	<i>Sperosoma biseriatum</i> Döderlein, 1901 Koehler (1927), Sastry (2005, 2007)
<b>Family</b>	<b>Phormosomatidae Mortensen, 1934</b>
269	<i>Phormosoma bursarium</i> A. Agassiz, 1881 Koehler (1927), James (1983b), Sastry (2005, 2007)
270	<i>Phormosoma verticillatum</i> Mortensen, 1904 Koehler (1927), James (1983b), Sastry (2005, 2007)
<b>Infraclass</b>	<b>Acroechinoidea Smith, 1981</b>
<b>Order</b>	<b>Aspidodiadematoida Kroh &amp; Smith, 2010</b>
<b>Family</b>	<b>Aspidodiadematidae Duncan, 1889</b>

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TABLE 3. (Continued)

Species	References	
271	<i>Aspidodiadema annulatum</i> Koehler, 1927	Koehler (1927)
272	<i>Aspidodiadema nicobaricum</i> Döderlein, 1901	Döderlein (1901, 1906), James (1983b), Sastry (2005, 2007)
<b>Order</b>	<b>Diadematoida Duncan, 1889</b>	
<b>Family</b>	<b>Diadematidae Gray, 1855</b>	
273	<i>Astropyga radiata</i> (Leske, 1778)	Bell (1887), Clark HL (1925), Koehler (1927), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1983b, 1985), Sastry (1991, 2002, 2005, 2007), Venkataraman & Padmanaban (2013), Venkataraman <i>et al.</i> (2013)
274	<i>Centrostephanus nitidus</i> Koehler, 1927	Koehler (1927), James (1983b), Sastry (2005, 2007)
275	<i>Chaetodiadema granulatum</i> Mortensen, 1903	Koehler (1927), Clark & Rowe (1971), Sastry (2005, 2007), Rao <i>et al.</i> (2009)
276	<i>Diadema savignyi</i> (Audouin, 1829)	James (1969, 1983b, 1989), Clark & Rowe (1971), Sastry (1991, 2002, 2007), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
277	<i>Diadema setosum</i> (Leske, 1778)	Bell (1887), Koehler (1927), James (1969, 1982d, 1989), Clark & Rowe (1971), Sastry (1999) in Sastry 2005 & 2007, Sastry (2001, 2002), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
278	<i>Echinothrix calamaris</i> (Pallas, 1774)	Clark HL (1925), Koehler (1927), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1982d, 1983b, 1989), Sastry (1991, 2001, 2002, 2005, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
279	<i>Echinothrix diadema</i> (Linnaeus, 1758)	Clark HL (1925), Koehler (1927), James (1969, 1982d, 1983b, 1989), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Sastry (1981a, 1991, 2002, 2005, 2007), Sastry <i>et al.</i> (2004), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
<b>Infraclass</b>	<b>Carinacea Kroh &amp; Smith, 2010</b>	
<b>Superorder</b>	<b>Calycina Gregory, 1900</b>	
<b>Order</b>	<b>Salenioida Delage &amp; Hérourard, 1903</b>	
<b>Family</b>	<b>Saleniidae L. Agassiz, 1838</b>	
280	<i>Bathysalenia sculpta</i> (Koehler, 1927)	Koehler (1927), Sastry (2005, 2007)
<b>Tribe</b>	<b>Salenocidarini Smith &amp; Wright, 1990</b>	
<b>Subspecies</b>	<i>Salenocidaris miliaris indica</i> Mortensen, 1939	Mortensen (1939) in Sastry 2007
281		
<b>Superorder</b>	<b>Echinacea Claus, 1876</b>	
<b>Order</b>	<b>Arbacioida Gregory, 1900</b>	
<b>Family</b>	<b>Arbaciidae Gray, 1855</b>	
282	<i>Arbacia punctulata</i> (Lamarck, 1816)	Raghunathan <i>et al.</i> (2013)
283	<i>Coelopleurus vittatus</i> Koehler, 1927	Koehler (1927), Sastry (2005, 2007)

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TABLE 3. (Continued)

Species	References	
284	<i>Pygmaeocidaris prionigera</i> (A. Agassiz, 1879)	Koehler (1927), Wood-Mason & Alcock (1891) in Sastry 2005 & 2007, James (1983b)
<b>Order</b>	<b>Camarodonta Jackson, 19</b>	
<b>Family</b>	<b>Parasaleniiidae Mortensen, 1903</b>	
285	<i>Parasalenia gratiosa</i> A. Agassiz, 1863	Clark & Rowe (1971)
<b>Infraorder</b>	<b>Echinidea Kroh &amp; Smith, 2010</b>	
<b>Superfamily</b>	<b>Odontophora Kroh &amp; Smith, 2010</b>	
<b>Family</b>	<b>Echinometridae Gray, 1855</b>	
286	<i>Echinometra mathaei</i> (Blainville, 1825)	Clark HL (1925), Koehler (1927), James (1969, 1982d, 1983b, 1985), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Satyamurti (1976), Sastry (1981a, 1991, 2001, 2002, 2005, 2007), Sastry (1998) in Sastry 2005, Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
<b>Subspecies</b>	<i>Echinometra mathaei oblonga</i> (Blainville, 1825)	James (1969, 1982d, 1988), Sastry (1977) in Sastry 2005, Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
<b>Subspecies</b>	<i>Echinometra mathaei violacea</i> Michelin, 1845	Sastry (1977) in Sastry 2005
288		
289	<i>Echinometra lucunter</i> (Linnaeus, 1758)	Bell (1887)
290	<i>Echinostrephus molaris</i> (Blainville, 1825)	Clark HL (1925), Koehler (1927), James (1969, 1983b, 1989), Price & Rowe (1996), Clark & Rowe (1971), Sastry (1997, 2002, 2005, 2007), Sastry <i>et al.</i> (2004), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
291	<i>Heterocentrotus mamillatus</i> (Linnaeus, 1758)	James (1969, 1989), Clark & Rowe (1971), Sastry (1991, 2007)
292	<i>Heterocentrotus trigonarius</i> (Lamarck, 1816)	Clark & Rowe (1971), Sastry (1997, 2002, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus</b>	<b><i>Colobocentrotus (Podophora)</i> L. Agassiz, 1840</b>	
293	<i>Colobocentrotus (Podophora) atratus</i> (Linnaeus, 1758)	Bell (1887), Clark HL (1925), Clark & Rowe (1971), James (1982d, 1983b), Sastry (1999) in Sastry 2005, Sastry (2002, 2007)
<b>Family</b>	<b>Parechinidae Mortensen, 1903</b>	
294	<i>Parechinus angulosus</i> (Leske, 1778)	Satyamurti (1976)
<b>Family</b>	<b>Toxopneustidae Troschel, 1872</b>	
295	<i>Gymnechinus robillardii</i> (de Loriol, 1883)	Clark HL (1925), Koehler (1927), Clark & Rowe (1971), Satyamurti (1976), Sastry (2002, 2005, 2007)
296	<i>Pseudoboletia maculata</i> Troschel, 1869	Thurston (1895) in Sastry 2007, Clark HL (1925), James (1969), Clark & Rowe (1971), Satyamurti (1976), Sastry (1991)
297	<i>Pseudoboletia indiana</i> (Michelin, 1862)	Clark & Rowe (1971)

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**TABLE 3.** (Continued)

Species	References
298 <i>Toxopneustes pileolus</i> (Lamarck, 1816)	Bell (1887, 1897), Clark HL (1925), Clark & Rowe (1971), Satyamurti (1976), James (1982d, 1983b, 1985, 1989), Sastry (1999) in Sastry 2005, Sastry (2002, 2007), Karuppaiyan (2007), Venkataraman & Padmanaban (2013), Venkatraman <i>et al.</i> (2013)
299 <i>Tripneustes gratilla</i> (Linnaeus, 1758)	Koehler (1927), Clark & Rowe (1971), Nagabhushanam & Rao (1972), James (1969, 1982d, 1983b, 1985, 1989), Satyamurti (1976), Sastry (1991, 2002, 2005, 2007), Sadhukhan & Raghunathan (2011a), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Venkatraman <i>et al.</i> (2013), Mishra <i>et al.</i> (2015)
300 <i>Tripneustes depressus</i> A. Agassiz, 1863	Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
<b>Infraorder Temnopleuridea Kroh &amp; Smith, 2010</b>	
<b>Family Temnopleuridae A. Agassiz, 1872</b>	
301 <i>Mespilia globulus</i> (Linnaeus, 1758)	James (1989), Sastry (1997, 2002, 2005), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
302 <i>Microcyphus ceylanicus</i> Mortensen, 1942	Clark & Rowe (1971), Sadhukhan & Raghunathan (2011a, 2012a), Sastry (2002, 2005, 2007), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
303 <i>Microcyphus maculatus</i> L. Agassiz in L. Agassiz & Desor, 1846	Clark HL (1925)
304 <i>Paratrema doederleini</i> (Mortensen, 1904)	Koehler (1927), Clark & Rowe (1971), James (1983b), Sastry (2002, 2005, 2007)
305 <i>Printechinus impressus</i> Koehler, 1927	Koehler (1927), Sastry (2005, 2007)
306 <i>Prionechinus agassizii</i> Wood-Mason & Alcock, 1891	Wodd-Mason & Alcock (1891), Koehler (1927), Sastry (2005, 2007)
307 <i>Salmacis belli</i> Döderlein, 1902	Raghunathan <i>et al.</i> (2013)
308 <i>Salmacis bicolor</i> L. Agassiz in L. Agassiz & Desor, 1846	Bell (1888), [Anderson (1894), Thurston (1895) in Sastry 2007], Clark HL (1925), Koehler (1927), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Satyamurti (1976), James (1969, 1982d, 1983a, 1985), Sastry (2002, 2004, 2005), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Venkataraman & Padmanaban (2013), Venkatraman <i>et al.</i> (2013), Sakthivel & Fernando (2014)
<b>Subspecies</b> <i>Salmacis bicolor typica</i> Mortensen, 1904 †	James (1969)
309	
310 <i>Salmacis sphaeroides</i> (Linnaeus, 1758)	Bell (1888)
311 <i>Salmacis virgulata</i> L. Agassiz in L. Agassiz & Desor, 1846	Clark HL (1925), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1989), Sastry (2007), Karuppaiyan (2007), Satheeshkumar (2011), Rao <i>et al.</i> (2009), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Sakthivel & Fernando (2014)
312 <i>Salmaciella dussumieri</i> (L. Agassiz in L. Agassiz & Desor, 1846)	Bell (1888), [Anderson (1894), Thurston (1895) in Sastry 2007], Clark HL (1925), Clark & Rowe (1971), Koehler (1927), James (1969, 1982d, 1985), Sastry (2002, 2007), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Sakthivel & Fernando (2014)
313 <i>Temnopleurus alexandri</i> (Bell, 1884)	Clark & Rowe (1971), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Rao & Kumar (2014)

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**TABLE 3.** (Continued)

Species	References	
314	<i>Temnopleurus apodus</i> (A. Agassiz & H.L. Clark, 1907c)	Koehler (1927), James (1983b), Sastry (2005, 2007)
315	<i>Temnopleurus decipiens</i> (de Meijere, 1904)	Clark & Rowe (1971), Hegde & Rivonker (2013)
316	<i>Temnopleurus hardwickii</i> (Gray, 1855)	Venkatraman <i>et al.</i> (2013)
317	<i>Temnopleurus toreumaticus</i> (Leske, 1778)	Bell (1888), [Thurston (1895), Gravely (1941), Radhakrishnan & Ganapati (1968) in Sastry 2007], Clark HL (1925), Koehler (1927), Sane & Chhapgar (1962), James (1969, 1982d, 1983b, 1985), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Satyamurti (1976), Sastry (2002, 2004, 2005), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Hegde & Rivonker (2013), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Sakthivel & Fernando (2014)
318	<i>Temnotrema scillae</i> (Mazzetti, 1894)	Koehler (1927), James (1983b), Sastry (2002, 2005, 2007)
319	<i>Temnotrema siamense</i> (Mortensen, 1904)	Koehler (1927), Clark & Rowe (1971)
<b>Family</b>	<b>Trigonocidaridae Mortensen, 1903</b>	
320	<i>Trigonocidaris versicolor</i> Koehler, 1927	Koehler (1927), James (1983b), Sastry (2005, 2007)
<b>Order</b>	<b>Stomopneustoida Kroh &amp; Smith, 2010</b>	
<b>Family</b>	<b>Stomopneustidae Mortensen, 1903</b>	
321	<i>Stomopneustes variolaris</i> (Lamarck, 1816)	Bell (1888), Clark HL (1925), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1989), Sastry (1981a, 1991, 2002, 2005, 2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
<b>Infraclass</b>	<b>Irregularia Latreille, 1825</b>	
<b>Superorder</b>	<b>Atelostomata von Zittel, 1879</b>	
<b>Order</b>	<b>Spatangoida L. Agassiz, 1840</b>	
<b>Family</b>	<b>Hemiasteridae H. L. Clark, 1917</b>	
322	<i>Holanthus vanus</i> (Koehler, 1914)	Koehler (1914), Sastry (2007)
<b>Family</b>	<b>Palaeostomatidae Lovén, 1868</b>	
323	<i>Palaeostoma mirabile</i> (Gray, 1851)	Koehler (1914), Sastry (2005, 2007)
<b>Suborder</b>	<b>Brissidina Stockley, Smith, Littlewood, Lessios &amp; MacKenzie-Dodds, 2005</b>	
<b>Family</b>	<b>Brissidae Gray, 1855</b>	
324	<i>Brissus latecarinatus</i> (Leske, 1778)	Clark HL (1925), James (1983, 1989), Sastry (1991, 2007), Raghunathan & Venkataraman (2012), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
325	<i>Brissus unicolor</i> (Leske, 1778)	Bell (1888)
326	<i>Metalia latissima</i> H.L. Clark, 1925	Clark HL (1925), Clark & Rowe (1971), Sastry (2007)
327	<i>Metalia spatagus</i> (Linnaeus, 1758)	Koehler (1914), James (1969, 1983b), Sastry (1991, 2002, 2005, 2007)
328	<i>Metalia sternalis</i> (Lamarck, 1816)	Bell (1887, 1888), [Anderson (1894), Thurston (1895) in Sastry 2007,] Clark HL (1925), Satyamurti (1976), James (1969, 1983b, 1985), Sastry (2002, 2005), Karuppaiyan (2007)
<b>Subfamily</b>	<b>Brissopsinae Lambert, 1905</b>	

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**TABLE 3.** (Continued)

Species	References	
329	<i>Brissopsis luzonica</i> (Gray, 1851)	Anderson (1894) in Sastry 2007, Koehler (1914), James (1969, 1983b), Clark & Rowe (1971), Sastry (2005, 2007), Karuppaiyan (2007), Rao <i>et al.</i> (2009)
330	<i>Brissopsis oldhami</i> Alcock, 1893	Alcock (1893b), Koehler (1914), Sastry (2005, 2007)
331	<i>Brissopsis parallella</i> Koehler, 1914	Koehler (1914), Mortensen (1951) in Sastry 2007
332	<i>Rhynobrissus pyramidalis</i> A. Agassiz, 1872	Bell (1888), Clark HL (1925), Clark & Rowe (1971), Sastry (2007)
<b>Superfamily Spatangidea Fischer, 1966</b>		
<b>Family Eurypatagidae Kroh, 2007</b>		
333	<i>Elipneustes denudatus</i> (Koehler, 1914)	Koehler (1914), James (1969), Sastry (2007)
334	<i>Elipneustes rubens</i> (Koehler, 1914)	Koehler (1914), Sastry (2007)
335	<i>Linopneustes spectabilis</i> (de Meijere, 1902)	Koehler (1914), Sastry (2007)
<b>Family Loveniidae Lambert, 1905</b>		
336	<i>Araeolampas glauca</i> (Wood-Mason & Alcock, 1891)	Wood-Mason & Alcock (1891), Koehler (1914), Sastry (2005, 2007)
337	<i>Brynia vredenburgi</i> Anderson, 1907	Anderson (1907), Mortenson (1951) in Sastry 2007, James (1966b, 1969, 1983b, 1982d), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
338	<i>Lovenia elongata</i> (Gray, 1845)	Bell (1888), [Anderson (1894), Thurston (1895) in Sastry 2007], Koehler (1914), Clark HL (1925), James (1969, 1985), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Satyamurti (1976), Sastry (2001, 2002, 2005), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Venkataraman & Padmanaban (2013)
339	<i>Lovenia gregalis</i> Alcock, 1893	Alcock (1893b), Koehler (1914), Sastry (2007)
340	<i>Lovenia subcarinata</i> Gray, 1851	Koehler (1914), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
<b>Family Maretidae Lambert, 1905</b>		
341	<i>Gymnopatagus magnus</i> A. Agassiz & H.L. Clark, 1907	Koehler (1914), Sastry (2005, 2007)
342	<i>Gymnopatagus valdiviae</i> Döderlein, 1901	Sastry (2005, 2007)
343	<i>Nacospatangus alta</i> (A. Agassiz, 1864)	Anderson (1894) in Sastry 2007, Koehler (1914), Clark HL (1925), Satyamurti (1976), Sastry (2005), Rao <i>et al.</i> (2009)
344	<i>Maretia planulata</i> (Lamarck, 1816)	Koehler (1914), Clark HL (1925), Clark & Rowe (1971), Nagabhushanam & Rao (1972), James (1983b), Sastry (2002, 2005), Karuppaiyan (2007), Rao & Kumar (2014)
<b>Family Macropneustidae Lambert, 1905</b>		
345	<i>Argopatagus vitreus</i> A. Agassiz, 1879	Koehler (1914) in Sastry 2005, Sastry (2007)
<b>Family Palaeotropidae Lambert, 1896</b>		
346	<i>Paleotrema ovatus</i> (Koehler, 1914)	Koehler (1914), Sastry (2007)
<b>Suborder Paleopneustina Markov &amp; Solovjev, 2001</b>		
<b>Superfamily Paleopneustidea A. Agassiz, 1904</b>		
<b>Family Paleopneustina incertae sedis B</b>		
347	<i>Heterobrissus hemingi</i> (Anderson, 1902)	Koehler (1914)
<b>Family Pericosmidae Lambert, 1905</b>		
348	<i>Faorina chinensis</i> Gray, 1851	Koehler (1914), James (1983b), Sastry (2005, 2007)
349	<i>Pericosmus macronesius</i> Koehler, 1914	Koehler (1914), James (1983b), Sastry (2005, 2007)

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**TABLE 3.** (Continued)

Species	References
<b>Family</b>	<b>Schizasteridae Lambert, 1905</b>
350	<i>Hypselaster kemp</i> (Koehler, 1914) Koehler (1914), Mortensen (1951) in Sastry 2007
351	<i>Moira stygia</i> (A. Agassiz, 1872) Bell (1887), Clark HL (1925), Clark & Rowe (1971), James (1983b), Sastry (2005, 2007)
352	<i>Prymnaster angulatus</i> Koehler, 1914 Koehler (1914), Sastry (2007)
353	<i>Prymnaster investigatoris</i> Koehler, 1914 Koehler (1914), Clark & Rowe (1971), James (1983b), Sastry (2005)
354	<i>Schizaster compactus</i> (Koehler, 1914) Anderson (1894) in Sastry 2007, Koehler (1914)
355	<i>Schizaster gibberulus</i> L. Agassiz & Desor, 1847 Koehler (1914), Mortensen (1951) in Sastry 2007, Clark & Rowe (1971), Karuppaiyan (2007)
<b>Order</b>	<b>Echinoneoidea H. L. Clark, 1925</b>
<b>Family</b>	<b>Echinoneidae L. Agassiz &amp; Desor, 1847</b>
356	<i>Echinoneus cyclostomus</i> Leske, 1778 Bell (1887), Koehler (1922), Clark HL (1925), Clark & Rowe (1971), Nagabhushanam & Rao (1972), James (1989), Sastry (1999) in Sastry 2005, Sastry (1991, 2001, 2002, 2007)
<b>Superorder</b>	<b>Neognathostomata Smith, 1981</b>
<b>Order</b>	<b>Clypeasteroidea A. Agassiz, 1872</b>
<b>Suborder</b>	<b>Clypeasterina von Zittel, 1879</b>
<b>Family</b>	<b>Clypeasteridae L. Agassiz, 1835</b>
357	<i>Arachnoides placenta</i> (Linnaeus, 1758) Koehler (1922), Clark HL (1925), James (1969, 1983b, 1982d), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004)
358	<i>Clypeaster annandalei</i> Koehler, 1922 Koehler (1922)
359	<i>Clypeaster eurypterus</i> H.L. Clark, 1925 Karuppaiyan (2007)
360	<i>Clypeaster fervens</i> Koehler, 1922 Mortensen (1948) in Sastry 2007, Clark & Rowe (1971)
361	<i>Clypeaster kieri</i> Pawson & Phelan, 1979 Karuppaiyan (2007)
362	<i>Clypeaster humilis</i> (Leske, 1778) Bell (1888), Clark & Rowe (1971), Thurston (1895) in Sastry 2007, Clark HL (1925), Satyamurti (1976), James (1969, 1983a, 1985), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Sadhukhan & Raghunathan (2011a, 2012a), Venkataraman <i>et al.</i> (2013), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
363	<i>Clypeaster rarispinus</i> de Meijere, 1903 Koehler (1922), Clark HL (1925), Clark & Rowe (1971), Satyamurti (1976), Sastry (1991, 2004, 2007), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Venkataraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
364	<i>Clypeaster reticulatus</i> (Linnaeus, 1758) Koehler (1922), James (1983b, 1989), Sastry (2005, 2007), Karuppaiyan (2007), Venkataraman & Padmanaban (2013), Venkataraman <i>et al.</i> (2013)
365	<i>Clypeaster prostratus</i> Ravenel, 1848 Karuppaiyan (2007)
366	<i>Clypeaster subdepressus</i> (Gray, 1825) Karuppaiyan (2007)
367	<i>Clypeaster pateriformis</i> Mortensen, 1948 Karuppaiyan (2007)
<b>Suborder</b>	<b>Scutellina Haeckel, 1896</b>
<b>Infraorder</b>	<b>Laganiformes Desor, 1847</b>
<b>Family</b>	<b>Echinocyamidae Lambert &amp; Thiéry, 1914</b>
368	<i>Echinocyamus crispus</i> Mazzetti, 1893 Koehler (1922), Clark & Rowe (1971), James (1983b), Sastry (2005, 2007)

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**TABLE 3.** (Continued)

Species	References	
369	<i>Echinocyamus sollers</i> Koehler, 1922	Koehler (1922), Sastry (2007)
<b>Family</b>	<b>Fibulariidae Gray, 1855</b>	
370	<i>Fibularia cribellum</i> de Meijere, 1903	Koehler (1922), Sastry (2007)
371	<i>Fibularia ovulum</i> Lamarck, 1816	Koehler (1922)
372	<i>Fibularia volva</i> L. Agassiz & Desor, 1846	Bell (1889), [Anderson (1894), Thurston (1895) in Sastry 2007], Koehler (1922), Clark HL (1925), Clark & Rowe (1971)
<b>Family</b>	<b>Laganidae Desor, 1858</b>	
373	<i>Laganum decagonale</i> (Blainville, 1827)	Bell (1888), Thurston (1895) in Sastry 2007, Koehler (1922), Kurian (1953), Clark & Rowe (1971), Satyamurti (1976), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Rao & Kumar (2014)
374	<i>Laganum laganum</i> (Leske, 1778)	Koehler (1922), Clark & Rowe (1971), Satyamurti (1976), James (1985), [Sastry (1977, 1998) in Sastry 2005], Sastry (2002, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Rao & Kumar (2014)
375	<i>Laganum retinens</i> Koehler, 1922	Koehler (1922), Sastry (2005, 2007), Rao <i>et al.</i> (2009)
376	<i>Laganum versatile</i> Koehler, 1922	Koehler (1922), Clark & Rowe (1971), Sastry (2005, 2007)
377	<i>Jacksonaster depressum</i> (L. Agassiz, 1841)	Thurston (1895) in Sastry 2007, Koehler (1922), Clark HL (1925), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1982d, 1983b, 1985), Sastry (2002, 2005), Venkataraman & Padmanaban (2013)
378	<i>Peronella lesueuri</i> (L. Agassiz, 1841)	Koehler (1922), Clark & Rowe (1971), Satyamurti (1976), Sastry (2002, 2005, 2007)
379	<i>Peronella macroproctes</i> Koehler, 1922	Clark & Rowe (1971), Sastry (1977) in Sastry 2005, Sastry (2002, 2007)
380	<i>Peronella oblonga</i> Mortensen, 1948	Mortensen (1948) in Sastry 2007, Clark & Rowe (1971), Sastry (2004)
381	<i>Peronella orbicularis</i> (Leske, 1778)	Clark & Rowe (1971), Satyamurti (1976), James (1969, 1985), Karuppaiyan (2007), Sastry (2007)
382	<i>Peronella rubra</i> Döderlein, 1885	Clark & Rowe (1971), Sastry (1977) in Sastry 2005, Sastry (2002, 2007), Karuppaiyan (2007)
383	<i>Peronella rullandi</i> (Koehler, 1922)	Koehler (1922), Sastry (1981b, 2005, 2007)
384	<i>Peronella tuberculata</i> Mortensen, 1918	Karuppaiyan (2007)
<b>Infraorder</b>	<b>Scutelliformes Haeckel, 1896</b>	
<b>Superfamily</b>	<b>Scutellidae Gray, 1825</b>	
<b>Family</b>	<b>Astriclypeidae Stefanini, 1912 (2015)</b>	
385	<i>Sculpsitechinus auritus</i> (Leske, 1778)	Koehler (1922), Clark HL (1925), Kurian (1953), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1983b, 1985), Sastry (2002, 2005, 2007), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Venkataraman <i>et al.</i> (2013), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Sakthivel & Fernando (2014)
386	<i>Echinodiscus bisperforatus</i> Leske, 1778	[Anderson (1894), Thurston (1895) in Sastry 2007], Bell (1888), Koehler (1922), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1983b), Sastry (2002, 2005), Karuppaiyan (2007), Venkataraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Sakthivel & Fernando (2014)
387	<i>Echinodiscus truncatus</i> L. Agassiz, 1841	Satyamurti (1976)

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TABLE 3. (Continued)

Species	References
<b>Family</b>	<b>Echinarachniidae Lambert in Lambert &amp; Thiéry, 1914</b>
388	<i>Echinarachnius parma</i> (Lamarck, 1816) Clark HL (1925)
<b>Superorder</b>	<b>Neognathostomata Smith, 1981</b>
<b>Order</b>	<b>Echinolampadoida Kroh &amp; Smith, 2010</b>
<b>Family</b>	<b>Echinolampadidae Gray, 1851</b>
389	<i>Echinolampas alexandri</i> de Loriol, 1876 Koehler (1922), James (1969, 1985, 1989), Clark & Rowe (1971), Sastry (2007)
390	<i>Echinolampas ovata</i> (Leske, 1778) Bell (1888), Alcock (1893b), Thurston (1895) in Sastry 2007, Koehler (1922), Clark HL (1925), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1983, 1985, 1989), Venkataraman & Padmanaban (2013)
<b>Class</b>	<b>Holothuroidea</b>
<b>Order</b>	<b>Apodida Brandt, 1835</b>
<b>Family</b>	<b>Chiridotidae Östergren, 1898</b>
391	<i>Polycheira rufescens</i> (Brandt, 1835) Bell (1887), James (1969, 1982c, d, 1983b), Soota <i>et al.</i> (1983), James (1987) in Sastry 2005, Clark & Rowe (1971), Mukhopadhyay (1991), Sastry (2002, 2005, 2007), Kumar (2012)
392	<i>Psammothuria ganapati</i> Rao, 1968 Rao (1968) in Sastry 2007
393	<i>Taeniogyrus havelockensis</i> (Rao, 1975) Rao (1975), Sastry (2002, 2007)
<b>Family</b>	<b>Synaptidae Burmeister, 1837</b>
394	<i>Anapta gracilis</i> Semper, 1867 Clark & Rowe (1971), James (1982c), Sastry (2007)
395	<i>Dactylapta dubiosa</i> (Koehler & Vaney, 1905) Koehler & Vaney (1905)
396	<i>Euapta godeffroyi</i> (Semper, 1868) James (1969, 1982c, d, 1989), Mukhopadhyay (1991), Kandan (1994), Kulkarni <i>et al.</i> (2001) in Sastry 2007, Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
397	<i>Labidoplax</i> sp. James (1982c), Sastry (2007)
398	<i>Leptosynapta</i> sp. Rao (1988) in Sastry 2005, Sastry (2007)
399	<i>Opheodesoma grisea</i> (Semper, 1867) James (1969, 1982c, d, 1983b, 1989), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay (1991), James (1987) in Sastry 2005, Sastry (2002, 2007), Kumar (2012)
400	<i>Opheodesoma radiosa</i> (Lesson, 1830) Lesson (1830), Clark & Rowe (1971)
401	<i>Patinapta ooplax</i> (von Marenzeller, 1882) Rao (1973), James (1982c, d, 1983b), James (1987) in Sastry 2005, Sastry (2002, 2007)
402	<i>Protankyra conferta</i> Koehler & Vaney, 1905 Koehler & Vaney (1905), Sastry (2007)
403	<i>Protankyra denticulata</i> Koehler & Vaney, 1905 Koehler & Vaney (1905), Sastry (2007)
404	<i>Protankyra errata</i> Koehler & Vaney, 1905 Koehler & Vaney (1905), James (1983b), Soota <i>et al.</i> (1983), Sastry (2007)
405	<i>Protankyra inflexa</i> Koehler & Vaney, 1905 Koehler & Vaney (1905)
406	<i>Protankyra pseudodigitata</i> (Semper, 1867) Koehler & Vaney (1908), James (1969, 1983b), Sastry (2007), Kumar (2012)
407	<i>Protankyra similis</i> (Semper, 1867) Sastry (2007)

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**TABLE 3.** (Continued)

Species	References	
408	<i>Protankyra tristis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
409	<i>Protankyra tuticorensis</i> James, 1982	James (1982c), Sastry (2007)
410	<i>Rynkatorpa pawsoni</i> Martin, 1969	Sadhukhan & Raghunathan (2012a)
411	<i>Rynkatorpa timida</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), James (1983b), Sastry (2005, 2007)
412	<i>Synapta maculata</i> (Chamisso & Eysenhardt, 1821)	Koehler & Vaney (1908), James (1969, 1982c,d, 1983b, 1989, 2001), Clark & Rowe (1971), James (1987 & 1991) in Sastry 2005, Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1988, 1991), Kandan (1994), James (2001), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
413	<i>Synaptula media</i> Cherbonnier & Féral, 1984	Kumar (2012), Kumar & Geetha (2013)
414	<i>Synaptula recta</i> (Semper, 1867)	Gravelly (1927) in Sastry 2007, Satyamurti (1976), James (1969, 1982c,d, 1983b), James (1987) in Sastry 2005 & 2007, Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay (1991), Sastry (2002), Kumar (2012)
415	<i>Synaptula varians</i> (Nair, 1946)	Nayar (1946) in Calrk & Rowe 1971
	<b>Order</b>	<b>Aspidochirotida, Grube, 1840</b>
	<b>Family</b>	<b>Holothuriidae Burmeister, 1837</b>
416	<i>Actinopyga echinites</i> (Jaeger, 1833)	James (1969, 1982d, 1983b, 1989, 2001), Clark & Rowe (1971), Soota <i>et al.</i> (1983), James (2001), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
417	<i>Actinopyga lecanora</i> (Jaeger, 1833)	Clark & Rowe (1971), Koehler & Vaney (1908), James (1982d), Soota <i>et al.</i> (1983), Sastry (2002, 2005, 2007), Raghunathan <i>et al.</i> (2013), Sadhukhan & Raghunathan (2012a), Kumar (2012), Rao & Kumar (2014)
418	<i>Actinopyga mauritiana</i> (Quoy & Gaimard, 1834)	Bell (1887), Koehler & Vaney (1908), James (1969, 1982d, 1983b, 1989, 2001), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Kandan (1994), [James (1991), Sastry (1999) in Sastry 2005], Mukhopadhyay (1991), James (2001), Sastry (2002, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Kumar (2012), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Rao & Kumar (2014)
419	<i>Actinopyga miliaris</i> (Quoy & Gaimard, 1834)	Bell (1887), Koehler & Vaney (1908), James (1969, 1982d, 1983b, 1989, 2001), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Kandan (1994), James (1991) in Sastry 2005, Mukhopadhyay (1991), James (2001), Sastry (2002, 2007), Rao & Sastry (2007), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Kumar & Geetha (2013), Venkatraman <i>et al.</i> (2013), Rao & Kumar (2014)
420	<i>Actinopyga serratidens</i> Pearson, 1903	Kumar (2012)
421	<i>Bohadschia argus</i> Jaeger, 1833	James (1969, 1983b, 1989), Clark & Rowe (1971), Kandan (1994), James (1991) in Sastry 2005, Sastry (2002, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Kumar & Geetha (2013), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)

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**TABLE 3.** (Continued)

Species	References
422 <i>Bohadschia ocellata</i> Jaeger, 1833	Gopalakrishnan (1969), Mukhopadhyay (1988), Sastry (2007), Kumar (2012)
423 <i>Bohadschia marmorata</i> Jaeger, 1833	Bell (1887, 1888), Gopalakrishnan (1969), James (1969, 1982d, 1983b, 1985, 1989, 2001), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Price & Reid (1985) in Sastry 2007, Mukhopadhyay (1991), Kandan (1994), James (2001), Sastry (2002, 2005, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Kumar (2012), Venkatraman <i>et al.</i> (2013), Kumar & Geetha (2013), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
424 <i>Bohadschia vitiensis</i> (Semper, 1868)	James (1969), Clark & Rowe (1971), Mukhopadhyay (1988), Sastry (2002, 2007), Rao & Sastry (2007), Kumar (2012)
425 <i>Labidodemas rugosum</i> (Ludwig, 1875)	Koehler & Vaney (1908), James (1969, 1981b, 1982d, 1983b, 1989), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004)
426 <i>Labidodemas semperianum</i> Selenka, 1867	Koehler & Vaney (1908), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Sastry (2007), Raghunathan <i>et al.</i> (2013)
427 <i>Pearsonothuria graeffei</i> (Semper, 1868)	Price & Reid (1985) in Sastry 2007, Sadhukhan & Raghunathan (2011a, 2012a), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria</i> (<i>Acanthotrapeza</i>) Rowe, 1969</b>	
428 <i>Holothuria</i> ( <i>Acanthotrapeza</i> ) <i>coluber</i> Semper, 1868	Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
429 <i>Holothuria</i> ( <i>Acanthotrapeza</i> ) <i>pyxis</i> Selenka, 1867	Bell (1887), Koehler & Vaney (1908), James (1982d, 1983b, 1995), Soota <i>et al.</i> (1983), James (1986) in Sastry 2005 & 2007, Sastry (2002), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria</i> (<i>Cystipus</i>) Haacke, 1880</b>	
430 <i>Holothuria</i> ( <i>Cystipus</i> ) <i>inhabilis</i> Selenka, 1867	Soota <i>et al.</i> (1983)
431 <i>Holothuria</i> ( <i>Cystipus</i> ) <i>rigida</i> Selenka, 1867	James (1982d, 1983b, 1989, 1995), Soota <i>et al.</i> (1983), Mukhopadhyay (1988), Kandan (1994), Sastry (2002, 2005, 2007)
<b>Subgenus <i>Holothuria</i> (<i>Halodeima</i>) Pearson, 1914</b>	
432 <i>Holothuria</i> ( <i>Halodeima</i> ) <i>atra</i> Jaeger, 1833	Bell (1888), Koehler & Vaney (1908), Clark & Rowe (1971), Nagabhushanam & Rao (1972), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1989, 2001), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), [James (1991) in Sastry 2005 & 2007], Mukhopadhyay (1988, 1991), Kandan (1994), Sastry (2002), Rao & Sastry (2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Kumar & Geetha (2013), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Venkatraman <i>et al.</i> (2013), Rao & Kumar (2014)

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TABLE 3. (Continued)

Species	References
433 <i>Holothuria (Halodeima) edulis</i> Lesson, 1830	Bell (1887), Koehler & Vaney (1908), James (1969, 1982d, 1983b, 1985, 1995, 2001), Soota <i>et al.</i> (1983), Mukhopadhyay (1988), James (1991) in Sastry 2005 & 2007, Sastry (2002), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Venkatraman <i>et al.</i> (2013), Kumar & Geetha (2013), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria (Lessonothuria)</i> Deichmann, 1958</b>	
434 <i>Holothuria (Lessonothuria) lineata</i> Ludwig, 1875	Bell (1887)
435 <i>Holothuria (Lessonothuria) pardalis</i> Selenka, 1867	Koehler & Vaney (1908), Sane & Chhapgar (1962), Gopalakrishnan (1969), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1989, 1995), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1988, 1991), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Kumar (2012)
<b>Subgenus <i>Holothuria (Mertensiothuria)</i> Deichmann, 1958</b>	
436 <i>Holothuria (Mertensiothuria) hilla</i> Lesson, 1830	Bell (1887, 1888), Koehler & Vaney (1908), James (1969, 1982d, 1983b, 1985, 1989, 2001), Satyamurti (1976), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1988, 1991), Kandan (1994), Sastry (2002, 2005), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan & Venkataraman (2012), Kumar (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
437 <i>Holothuria (Mertensiothuria) leucospilota</i> (Brandt, 1835)	Bell (1887), Koehler & Vaney (1908), James (1969, 1982d, 1983b, 1985, 1989, 1995, 2001), Satyamurti (1976), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1988, 1991), Kandan (1994), Sastry (2002, 2005, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2012a), Kumar (2012), Raghunathan & Venkataraman (2012), Venkatraman <i>et al.</i> (2013), Kumar & Geetha (2013), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Venkataraman & Padmanaban (2013), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria (Metriatyla)</i> Rowe, 1969</b>	
438 <i>Holothuria (Metriatyla) scabra</i> Jaeger, 1833	Koehler & Vaney (1908), James (1969, 1976, 1982d, 1983b, 1985, 1989, 1995, 2001), Clark & Rowe (1971), Satyamurti (1976), Soota <i>et al.</i> (1983), James (1991) in Sastry 2005, Sastry (2002, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Venkatraman <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria (Microthele)</i> Brandt, 1835</b>	
439 <i>Holothuria (Microthele) fuscogilva</i> Cherbonnier, 1980	James (1998b, 2001), Sastry (2007)
440 <i>Holothuria (Microthele) nobilis</i> (Selenka, 1867)	James (1982d, 1989, 1995, 2001), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), Kandan (1994), Sastry (2002, 2007), Sastry <i>et al.</i> (2004), Sadhukhan & Raghunathan (2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria (Platyperona)</i> Rowe, 1969</b>	

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TABLE 3. (Continued)

Species	References
441 <i>Holothuria (Platyperona) difficilis</i> Semper, 1868	Koehler & Vaney (1908), Soota <i>et al.</i> (1983), James (1969, 1989, 1995), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Kumar (2012)
<b>Subgenus <i>Holothuria (Selenkothuria)</i> Deichmann, 1958</b>	
442 <i>Holothuria (Selenkothuria) erinacea</i> Semper, 1868	[Theel (1886), in Sastry 2005], James (1982d, 1983b, 1995), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Sastry (2002, 2005, 2007)
443 <i>Holothuria (Selenkothuria) glaberrima</i> Selenka, 1867	Soota <i>et al.</i> (1983)
444 <i>Holothuria (Selenkothuria) lubrica</i> Selenka, 1867	Koehler & Vaney (1908), Satyamurti (1976)
445 <i>Holothuria (Selenkothuria) moebii</i> (Brandt, 1883)	James (1969, 1982d, 1983b, 1985), Koehler & Vaney (1908), Clark & Rowe (1971), Sastry (2007), Kumar (2012)
<b>Subgenus <i>Holothuria (Semperothuria)</i> Deichmann, 1958</b>	
446 <i>Holothuria (Semperothuria) cinerascens</i> (Brandt, 1835)	James (1969, 1989, 1995), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1988, 1991), Kandan (1994), Sastry (2005, 2007), Raghunathan & Venkataraman (2012), Kumar (2012), Raghunathan <i>et al.</i> (2013)
447 <i>Holothuria (Semperothuria) imitans</i> Ludwig, 1875	Deepa & Kumar (2010), Kumar (2012)
<b>Subgenus <i>Holothuria (Stauropora)</i> Rowe, 1969</b>	
448 <i>Holothuria (Stauropora) fuscocinerea</i> Jaeger, 1833	James (1983b, 1995), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), Sastry (2005, 2007), Sathish Kumar (2012), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013)
449 <i>Holothuria (Stauropora) modesta</i> Ludwig, 1875	Koehler & Vaney (1908), Clark & Rowe (1971), Soota <i>et al.</i> (1983), James (1983b), Sastry (2007)
450 <i>Holothuria (Stauropora) pervicax</i> Selenka, 1867	James (1969, 1983b, 1989, 1995, 2001), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), Sastry (2002, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus <i>Holothuria (Theelothuria)</i> Deichmann, 1958</b>	
451 <i>Holothuria (Theelothuria) cadelli</i> Bell, 1887	Bell (1887)
452 <i>Holothuria (Theelothuria) kurti</i> Ludwig, 1891	Koehler & Vaney (1908), Mukhopadhyay (1988), Sastry (2007)
453 <i>Holothuria (Theelothuria) spinifera</i> Théel, 1886	James (1969, 1982d, 1983b, 1985, 1995, 2001), Mukhopadhyay (1988), Sastry (2007), Karuppaiyan (2007), Kumar (2012), Venkatraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
<b>Subgenus <i>Holothuria (Thymiosycia)</i> Pearson, 1914</b>	
454 <i>Holothuria (Thymiosycia) arenicola</i> Semper, 1868	James (1969, 1982d, 1983b, 1989, 1995, 2001), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay (1991), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Sadhukhan & Raghunathan (2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)

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**TABLE 3.** (Continued)

Species	References	
455	<i>Holothuria (Thymiosycia) gracilis</i> Semper 1868	Sastry (2002, 2005, 2007)
456	<i>Holothuria (Thymiosycia) impatiens</i> (Forskål, 1775)	Bell (1887, 1888), Koehler & Vaney (1908), James (1969, 1982d, 1983b, 1989, 1995, 2001), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), James (1991) in Sastry 2005, Mukhopadhyay (1991), Kandan (1994), Sastry (2001, 2002, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013)
457	<i>Holothuria (Thymiosycia) remollescens</i> Lampert, 1885	Koehler & Vaney (1908), James (1983b), Sastry (2005)
<b>Subgenus</b>	<b><i>Holothuria (Vaneyothuria)</i> Deichmann, 1958</b>	
458	<i>Holothuria (Vaneyothuria) integra</i> Koehler & Vaney, 1908	Koehler & Vaney (1905), Mukhopadhyay & Samanta (1983), Sastry (2007)
<b>Family</b>	<b>Mesothuriidae Smirnov, 2012</b>	
459	<i>Mesothuria abbreviata</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
460	<i>Mesothuria incerta</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
461	<i>Mesothuria multipes</i> Ludwig, 1893	Koehler & Vaney (1905), Sastry (2007)
462	<i>Mesothuria squamosa</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
<b>Family</b>	<b>Stichopodidae Haeckel, 1896</b>	
463	<i>Apostichopus japonicus</i> (Selenka, 1867)	James (1969)
464	<i>Stichopus chloronotus</i> Brandt, 1835	Bell (1887), Koehler & Vaney (1908), Satyamurti (1976), James (1969, 1982d, 1983b, 1985, 1989), Clark & Rowe (1971), Soota <i>et al.</i> (1983), James (1991) in Sastry 2005, Mukhopadhyay (1988, 1991), Kandan (1994), Sastry (2002, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Kumar (2012), Venkataraman <i>et al.</i> (2013), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
465	<i>Stichopus herrmanni</i> Semper, 1868	James (1983b), Sastry (2005, 2007), Deepa & Kumar (2010), Kumar (2012), Raghunathan <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
466	<i>Stichopus horrens</i> Selenka, 1867	Koehler & Vaney (1908), Soota <i>et al.</i> (1983), James (1969, 1983b, 1985, 1989, 2001), Mukhopadhyay (1991), Kandan (1994), Sastry (2002, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Sathish Kumar, (2012), Kumar & Geetha (2013), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
467	<i>Stichopus naso</i> Semper, 1868	Kumar (2012)
468	<i>Stichopus vastus</i> Sluiter, 1887	James (1998a), Sastry (2002, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
469	<i>Thelenota ananas</i> (Jaeger, 1833)	James (1969, 1982d, 1989, 2001), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), Kandan (1994), James (2001), Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Kumar (2012), Rao & Kumar (2014), Raghunathan <i>et al.</i> (2013)
<b>Family</b>	<b>Synallactidae Ludwig, 1894</b>	

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Species	References
470 <i>Allopatides dendroides</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
471 <i>Amphigymnas woodmasoni</i> (Walsh, 1891)	Walsh (1891) in Sastry 2007, Koehler & Vaney (1905), Soota <i>et al.</i> (1983), James (1983b)
472 <i>Bathyploetes cinctus</i> Koehler & Vaney, 1910	Soota <i>et al.</i> (1983), Sastry (2005, 2007)
473 <i>Bathyploetes crenulatus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
474 <i>Bathyploetes natans</i> (M. Sars, 1868)	Koehler & Vaney (1905), Sastry (2007)
475 <i>Bathyploetes pellucidus</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
476 <i>Bathyploetes profundus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
477 <i>Bathyploetes variabilis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
478 <i>Bathyzona incerta</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
479 <i>Benthothuria cristata</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
480 <i>Benthothuria distorta</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
481 <i>Dendrothuria similis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
482 <i>Paelopatides dissidens</i> Koehler & Vaney, 1910	Soota <i>et al.</i> (1983), Sastry (2005, 2007)
483 <i>Paelopatides gelatinosus</i> (Walsh, 1891)	Walsh (1891) in Sastry 2007, Koehler & Vaney (1905), James (1983b)
484 <i>Paelopatides insignis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
485 <i>Paelopatides mammillatus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905)
486 <i>Paelopatides modestus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
487 <i>Paelopatides mollis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), James (1983b), Sastry (2007)
488 <i>Paelopatides ovalis</i> (Walsh, 1891)	Walsh (1891) in Sastry 2007, Koehler & Vaney (1905), Soota <i>et al.</i> (1983), James (1983b)
489 <i>Paelopatides verrucosus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
490 <i>Perizona magna</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
491 <i>Pseudostichopus elegans</i> (Koehler & Vaney, 1905)	Soota <i>et al.</i> (1983), Koehler & Vaney (1905), Sastry (2007)
492 <i>Pseudostichopus occultatus</i> Marenzeller von, 1893	Sastry (2007)
493 <i>Pseudostichopus peripatus</i> (Sluiter, 1901)	Koehler & Vaney (1905)
494 <i>Pseudothuria duplex</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
495 <i>Synallactes dubius</i> Koehler & Vaney, 1905	Koehler & Vaney (1905)
496 <i>Synallactes horridus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)

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**TABLE 3.** (Continued)

<b>Species</b>	<b>References</b>	
497	<i>Synallactes rigidus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
<b>Order</b>	<b>Dendrochirotida Grube, 1840</b>	
<b>Family</b>	<b>Cucumariidae Ludwig, 1894</b>	
498	<i>Actinocucumis donnani</i> Pearson, 1903	Kumar (2012)
499	<i>Actinocucumis typica</i> Ludwig, 1875	Bell (1889), Sane & Chhapgar (1962), Gopalakrishnan (1969), James (1969, 1982d, 1985), Satyamurti (1976), Mukhopadhyay (1988), Sastry (2007), Kumar (2012)
500	<i>Aslia forbesi</i> (Bell, 1886)	Koehler & Vaney (1908), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
501	<i>Colochirus cylindricus</i> Semper, 1867	Kumar (2012)
502	<i>Colochirus quadrangularis</i> Troschel, 1846	Venkatraman <i>et al.</i> (2013)
503	<i>Leptopentacta bacilliformis</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Clark & Rowe (1971), James (1983b), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
504	<i>Leptopentacta imbricata</i> (Semper, 1867)	Koehler & Vaney (1908), James (1969), Price & Reid (1985) in Sastry 2007, Kumar (2012)
505	<i>Plesiocolochirus armatus</i> (Marenzeller von, 1881)	Kumar (2012)
506	<i>Pseudocnus alcocki</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), James (1983b), Sastry (2005, 2007)
507	<i>Pseudocnus echinatus</i> (von Marenzeller, 1881)	Koehler & Vaney (1908), Clark & Rowe (1971), Sastry (2007)
508	<i>Pseudocolochirus violaceus</i> (Théel, 1886)	Koehler & Vaney (1908), James (1969, 1976, 1982d, 1984), Clark & Rowe (1971), Sastry (2007), Kumar (2012), Kumar & Geetha (2013)
509	<i>Staurothyone rosacea</i> (Semper, 1869)	Kumar (2012)
510	<i>Trachasina crucifera</i> (Semper, 1869)	Deepa & Kumar (2011)
<b>Subspecies</b>	<i>Roweia frauenfeldi frauenfeldi</i> (Ludwig, 1882)	Satyamurti (1976), Mukhopadhyay (1988), Sastry (2007)
<b>Family</b>	<b>Psolidae Burmeister, 1837</b>	
512	<i>Psolidium complanatum</i> (Semper, 1867)	Satyamurti (1976)
513	<i>Psolidium rugosum</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
514	<i>Psolus mannarensis</i> James, 1984	James (1984), Sastry (2007)
515	<i>Psolus membranaceus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
516	<i>Psolus levis</i> Koehler & Vaney, 1906	Koehler & Vaney (1905), Sastry (2007)
<b>Family</b>	<b>Sclerodactylidae Panning, 1949</b>	
517	<i>Afrocucumis africana</i> (Semper, 1867)	James (1969, 1982d, 1983b, 1984, 1989), Clark & Rowe (1971), Mukhopadhyay & Samanta (1983), Mukhopadhyay (1991), James (1987) in Sastry 2005, Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004)
518	<i>Athyone</i> sp.	Sastry (2007)
519	<i>Cladolabes aciculus</i> (Semper, 1867)	Bell (1887), Clark & Rowe (1971), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
520	<i>Ohshimella ehrenbergii</i> (Selenka, 1868)	Sastry (2004, 2007), Kumar (2012)
521	<i>Havelockia ardens</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Sastry (2007)
522	<i>Havelockia ariana</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Mukhopadhyay & Samanta (1983), Sastry (2007)

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**TABLE 3.** (Continued)

Species	References	
523	<i>Havelockia versicolor</i> (Semper, 1867)	James (1969, 1976), Satyamurti (1976), James (1982d, 1983b, 1984), Sastry (2007), Kumar (2012)
<b>Family</b>	<b>Phyllophoridae Östergren, 1907</b>	
524	<i>Hemithyone semperi</i> (Bell, 1884)	James (1969, 1982d, 1983, 1984, 1985), Clark & Rowe (1971), Sastry (2007), Kumar (2012)
525	<i>Neothyonidium intermedium</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Mukhopadhyay & Samanta (1983), Sastry (2007)
526	<i>Phyrella fragilis</i> (Mitsukuri & Ohshima in Ohshima, 1912)	James (1983b, 1984, 1989), Mukhopadhyay (1991), Sastry (2002, 2007), Rao & Sastry (2007)
527	<i>Stolus buccalis</i> (Stimpson, 1855)	Gopalakrishnan (1969), Satyamurti (1976), James (1966a, 1969, 1982d, 1983a, 1984), Clark & Rowe (1971), Sastry (2004, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
528	<i>Stolus conjungens</i> (Semper, 1867)	Satyamurti (1976), Sastry (2007), Kumar (2012)
529	<i>Stolus rapax</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Clark & Rowe (1971), Sastry (1998) in Sastry 2007
530	<i>Thorsonia investigatoris</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Clark & Rowe (1971), Sastry (1998) in Sastry 2007
531	<i>Thyone dura</i> Koehler & Vaney, 1908	Koehler & Vaney (1908), James (1983b), Sastry (2005, 2007)
532	<i>Thyone fusca</i> Pearson, 1903	Kumar (2012)
533	<i>Thyone papuensis</i> Théel, 1886	Clark & Rowe (1971), Mukhopadhyay (1988), Sastry (2007), Kumar (2012)
534	<i>Phyllophorus dubia</i> (Bedford, 1899)	Satyamurti (1976)
535	<i>Phyllophorella spiculata</i> (Chang, 1935)	James (1969, 1983, 1984, 1985), Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Rao & Kumar (2014)
<b>Subgenus</b>	<b><i>Phyllophorus (Phyllothuria)</i> Heding &amp; Panning, 1954</b>	
536	<i>Phyllophorus (Phyllothuria) cebuensis</i> (Semper, 1867)	Mukhopadhyay (1988), Sastry (2007), Deepa & Kumar (2011), Kumar (2012)
537	<i>Phyllophorus (Phyllothuria) celer</i> Koehler & Vaney, 1908	Koehler & Vaney (1908), Sastry (2002, 2005, 2007)
<b>Subgenus</b>	<b><i>Phyllophorus (Urodemella)</i> Deichmann, 1944</b>	
538	<i>Phyllophorus (Urodemella) brocki</i> Ludwig, 1888	James (1983a), Kumar (2012), Sastry (2007)
<b>Family</b>	<b>Vaneyellidae Pawson &amp; Fell, 1965</b>	
539	<i>Mitsukuriella inflexa</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Sastry (2007)
<b>Family</b>	<b>Ypsilothuriidae Heding, 1942</b>	
540	<i>Ypsilothuria bitentaculata</i> (Ludwig, 1893)	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
<b>Order</b>	<b>Elasipodida Théel, 1882</b>	
<b>Family</b>	<b>Deimatidae Théel, 1882</b>	
541	<i>Orphnurgus glaber</i> Walsh, 1891	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
542	<i>Oneirophanta conservata</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)

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TABLE 3. (Continued)

Species	References
<b>Subspecies</b> <i>Deima validum validum</i> Théel, 1879 543	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
<b>Family</b> <b>Elpidiidae Théel, 1882</b>	
544 <i>Psychroplanes rigida</i> (Théel, 1882)	Koehler & Vaney (1905)
<b>Family</b> <b>Laetmogonidae Ekman, 1926</b>	
545 <i>Apodogaster alcocki</i> Walsh, 1891	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
546 <i>Benthogone fragilis</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007), Karuppaiyan (2007)
547 <i>Laetmogone violacea</i> Théel, 1879	Koehler & Vaney (1905), Sastry (2007)
<b>Family</b> <b>Pelagothuriidae Ludwig, 1893</b>	
548 <i>Enypniastes eximia</i> Théel, 1882	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
<b>Family</b> <b>Psychropotidae Théel, 1882</b>	
549 <i>Benthodytes typica</i> Théel, 1882	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
550 <i>Benthodytes sanguinolenta</i> Théel, 1882	Koehler & Vaney (1905)
551 <i>Psychropotes minuta</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
552 <i>Psychropotes verrucosa</i> (Ludwig, 1893)	Koehler & Vaney (1905)
<b>Order</b> <b>Molpadida Haeckel, 1896</b>	
<b>Family</b> <b>Caudinidae Heding, 1931</b>	
553 <i>Acaudina leucoprocta</i> (H.L. Clark, 1938)	James (1969), Sastry (2007), Kumar (2012)
554 <i>Acaudina molpadioides</i> (Semper, 1867)	Bell (1887), Koehler & Vaney (1908), Gopalakrishnan (1969), Clark & Rowe (1971), James (1983b, 2001), Soota <i>et al.</i> (1983), Sastry (2002, 2004, 2007), Raghunathan & Venkataraman (2012), Kumar (2012), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Venkataraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013), Rao & Kumar (2014)
555 <i>Hedingia albicans</i> (Théel, 1886) Deichmann, 1938	Koehler & Vaney (1905), Sastry (2007)
556 <i>Paracaudina australis</i> (Semper, 1868)	Koehler & Vaney (1908), James (1969), Soota <i>et al.</i> (1983), Sastry (2007), Kumar (2012)
<b>Family</b> <b>Eupyrgidae Semper, 1867</b>	
557 <i>Eupyrgus scaber</i> Lütken, 1857	Walsh (1891) in Sastry 2007
<b>Family</b> <b>Molpadiidae Müller, 1850</b>	
558 <i>Molpadia acuta</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905)
559 <i>Molpadia andamanensis</i> (Walsh, 1891)	Walsh (1891) in Sastry 2007, Koehler & Vaney (1905), James (1983b), Soota <i>et al.</i> (1983), Sastry (2007)
560 <i>Molpadia brevicaudata</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
561 <i>Molpadia concolor</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
562 <i>Molpadia contorta</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
563 <i>Molpadia ecalcareia</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)

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**TABLE 3.** (Continued)

Species	References	
564	<i>Molpadia elongata</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), James (1983b), Soota <i>et al.</i> (1983), Sastry (2007)
565	<i>Molpadia granulata</i> (Ludwig, 1893)	Koehler & Vaney (1905)
566	<i>Molpadia musculus</i> Risso, 1826	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), James (1983b), Sastry (2005, 2007)
567	<i>Molpadia paupera</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
568	<i>Molpadia polymorpha</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
569	<i>Molpadia undulata</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905)
<b>Class</b>	<b>Ophiuroidea Gray, 1840</b>	
<b>Order</b>	<b>Ophiurida Müller &amp; Troschel, 1840</b>	
<b>Suborder</b>	<b>Ophiomyxina Fell, 1962</b>	
<b>Family</b>	<b>Ophiomyxidae Ljungman, 1867</b>	
570	<i>Ophiomyxa australis</i> Lütken, 1869	Clark & Rowe (1971), James (1983b, 1969, 1989), Sastry (1991, 2002, 2007)
571	<i>Ophiomyxa bengalensis</i> Koehler, 1897	Koehler (1897, 1899), James (1969, 1983b), Sastry (2005, 2007)
572	<i>Ophiophrixus confinis</i> Koehler, 1922	Sastry (1981c, 2005, 2007)
<b>Suborder</b>	<b>Ophiurina Müller &amp; Troschel, 1840</b>	
<b>Family</b>	<b>Ophiacanthidae Ljungman, 1867</b>	
573	<i>Ophiacantha composita</i> Koehler, 1897	Koehler (1897, 1899), James (1983b)
574	<i>Ophiacantha indica</i> Ljungman, 1867	Clark & Rowe (1971), Koehler (1899) in Sastry 2005 & 2007, James (1983b), Raghunathan & Venkataraman (2012)
575	<i>Ophiacantha pentagona</i> Koehler, 1897	Koehler (1897, 1899), James (1983b), Sastry (2007)
576	<i>Ophiacantha sociabilis</i> Koehler, 1897	Koehler (1897, 1899), James (1983b), Sastry (2007)
577	<i>Ophiacantha vagans</i> Koehler, 1898	Koehler (1899) in Sastry 2007
578	<i>Ophiacantha vorax</i> Koehler, 1897	Koehler (1897, 1899), Sastry (2007)
579	<i>Ophiocamax fasciculata</i> Lyman, 1883	Koehler (1897, 1899), James (1983b), Sastry 2005, 2007
580	<i>Ophiocamax vitrea</i> Lyman, 1878	Sastry (2005, 2007)
581	<i>Ophiolimna antarctica</i> (Lyman, 1879)	Stöhr <i>et al.</i> (2012)
582	<i>Ophiomitra integra</i> Koehler, 1897	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
583	<i>Ophiomoeris tenera</i> (Koehler, 1897)	Koehler (1897, 1899, 1922), James (1983b), Sastry (2005, 2007)
584	<i>Ophiomyces delata</i> Koehler, 1904	Parameswaran <i>et al.</i> (2016)
585	<i>Ophioplinthaca rudis</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
586	<i>Ophiopristis vestita</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2007)
587	<i>Ophiotreta matura</i> (Koehler, 1904)	Sastry (2007)
588	<i>Ophiotreta stimulea</i> (Lyman, 1878)	Koehler (1897, 1899), James (1983b), Sastry (2007)
<b>Infraorder</b>	<b>Chilophiurina Matsumoto, 1915</b>	
<b>Family</b>	<b>Ophiuridae Müller &amp; Troschel, 1840</b>	
<b>Subfamily</b>	<b>Ophiolepidinae</b>	
589	<i>Ophiolipus granulatus</i> Koehler, 1897	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
<b>Subfamily</b>	<b>Ophioleucinae Matsumoto, 1915</b>	

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**TABLE 3.** (Continued)

Species	References	
590	<i>Amphiophiura ornata</i> (Lyman, 1878)	Hetz (1927) in Sastry 2005, James (1983b), Sastry (2005, 2007)
591	<i>Amphiophiura paupera</i> (Koehler, 1897)	Koehler (1897, 1899), Sastry (2007)
592	<i>Amphiophiura radiata</i> (Lyman, 1878)	Koehler (1897, 1899)
593	<i>Amphiophiura sculptilis</i> (Lyman, 1878)	Koehler (1897, 1899), [Guille & Yadon (1986) in Sastry 2005 & 2007]
594	<i>Amphiophiura sordida</i> (Koehler, 1897)	Koehler (1897, 1899, 1922), James (1983b), Sastry 2005, Sastry (2007)
595	<i>Ophioleuce longispinum</i> Stöhr, Sautya & Ingole, 2012	Stöhr et al. (2012)
596	<i>Ophiostriatus bispinosus</i> (Koehler, 1897)	Koehler (1897, 1899), [Madsen (1983) in Sastry 2005 & 2007], James (1983b)
<b>Subspecies</b>	<i>Ophiernus adpersus adpersus</i> Lyman, 1883	Koehler (1897, 1899), James (1983b), Sastry (2007)
597		
<b>Subfamily</b>	<b>Ophiurinae Lyman, 1865</b>	
598	<i>Astrophium</i> cf. <i>tiki</i> Litvinova & Smirnov, 1981	Stöhr et al. (2012)
599	<i>Ophiomastus tumidus</i> Koehler, 1897	Koehler (1897, 1899), Sastry (2007)
600	<i>Ophiophyllum minimum</i> Stöhr, Sautya & Ingole, (2012)	Stöhr et al. (2012)
601	<i>Ophioplithus inflata</i> (Koehler, 1897)	Sastry (2005)
602	<i>Ophiopyrgus alcocki</i> Koehler, 1897	Koehler (1897, 1899), Sastry (2007)
603	<i>Ophiotypa simplex</i> Koehler, 1897	Koehler (1897, 1899)
604	<i>Ophiura aequalis</i> (Lyman, 1878)	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
605	<i>Ophiura flagellata</i> (Lyman, 1878)	Koehler (1897, 1899), James (1983b), Sastry (2005)
606	<i>Ophiura kinbergi</i> Ljungman, 1866	Koehler (1898) in Sastry 2005, James (1983b), Clark & Rowe (1971), Sastry (2007)
607	<i>Ophiura undulata</i> (Lyman, 1878)	Koehler (1899) , Sastry (2007)
<b>Subgenus</b>	<b><i>Ophiura (Dictenophiura)</i> H.L. Clark, 1923</b>	
608	<i>Ophiura (Dictenophiura) stellata</i> (Studer, 1882)	Koehler (1898) in Sastry 2005 & 2007
<b>Subgenus</b>	<b><i>Ophiura (Ophiuroglypha)</i> Hertz, 1927</b>	
<b>Subspecies</b>	<i>Ophiura (Ophiuroglypha) irrorata irrorata</i> (Lyman, 1878)	Koehler (1897, 1899), Sastry (2007)
609		
<b>Infraorder</b>	<b>Gnathophiurina Matsumoto, 1915</b>	
<b>Family</b>	<b>Amphiuridae Ljungman, 1867</b>	
610	<i>Amphioplus cyrtacanthus</i> H.L. Clark, 1915	Sastry (2007)
611	<i>Amphioplus dispar</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2007)
612	<i>Amphioplus famula</i> (Koehler, 1910)	Koehler (1910) in Sastry 2007
613	<i>Amphioplus gravelyi</i> James, 1970	James (1970b, 1983), Satyamurti (1976), Sastry (2007)
614	<i>Amphioplus modestus</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2007)
615	<i>Amphipholis misera</i> (Koehler, 1899)	Koehler (1899), James (1983b), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
616	<i>Amphipholis squamata</i> (Delle Chiaje, 1828)	Sane & Chhapgar (1962), James (1969, 1982d, 1983b, 1985, 1989), Sastry (1991, 1999) in Sastry 2005 & 2007, Sastry (2002, 2004), Rao & Kumar (2014)

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**TABLE 3.** (Continued)

Species	References	
617	<i>Dougaloplus echinatus</i> (Ljungman, 1867)	James (1969, 1985), Koehler (1899) in Sastry 2007
618	<i>Ophionephthys difficilis</i> (Duncan, 1887)	Clark & Rowe (1971)
619	<i>Ophiocentrus dilatata</i> (Koehler, 1905)	Sastry (2002, 2005, 2007)
620	<i>Ophiocentrus verticillatus</i> (Döderlein, 1896)	James (1983b), Sastry (2005, 2007)
<b>Subgenus</b>	<b><i>Amphioplus</i> (<i>Amphioplus</i>) Verrill, 1899</b>	
621	<i>Amphioplus</i> ( <i>Amphioplus</i> ) <i>intermedius</i> (Koehler, 1905)	James (1983b), Sastry (2007)
622	<i>Amphioplus</i> ( <i>Amphioplus</i> ) <i>personatus</i> (Koehler, 1905)	Sastry (2002, 2005, 2007)
<b>Subgenus</b>	<b><i>Amphiura</i> (<i>Amphiura</i>) Forbes, 1843</b>	
623	<i>Amphiura</i> ( <i>Amphiura</i> ) <i>ambigua</i> Koehler, 1905	Sastry (2004, 2007)
624	<i>Amphiura</i> ( <i>Amphiura</i> ) <i>lorioli</i> (Koehler, 1897)	Koehler (1897, 1899), Sastry (2007)
625	<i>Amphiura</i> ( <i>Amphiura</i> ) <i>micra</i> H.L. Clark, 1938	Karuppaiyan (2007)
626	<i>Amphiura</i> ( <i>Amphiura</i> ) <i>septemspinosa</i> H.L. Clark, 1915	Sastry (2002, 2005, 2007)
<b>Subgenus</b>	<b><i>Amphioplus</i> (<i>Lymanella</i>) A.M. Clark, 1970</b>	
627	<i>Amphioplus</i> ( <i>Lymanella</i> ) <i>andreae</i> (Lütken, 1872)	James (1983b), Sastry (2005, 2007)
628	<i>Amphioplus</i> ( <i>Lymanella</i> ) <i>depressus</i> (Ljungman, 1867)	Koehler (1898) in Sastry 2005 & 2007, James (1969, 1971b, 1983b), Sastry (2002, 2005), Rao <i>et al.</i> (2009)
629	<i>Amphioplus</i> ( <i>Lymanella</i> ) <i>hastatus</i> (Ljungman, 1867)	Sastry (2002, 2005, 2007)
630	<i>Amphioplus</i> ( <i>Lymanella</i> ) <i>laevis</i> (Lyman, 1874)	Sastry (2002, 2005, 2007)
<b>Subgenus</b>	<b><i>Amphiura</i> (<i>Ophiopeltis</i>) Düben &amp; Koren, 1846</b>	
631	<i>Amphiura</i> ( <i>Ophiopeltis</i> ) <i>tenuis</i> (H.L. Clark, 1938)	Sastry (1995) in Sastry 2007
<b>Subgenus</b>	<b><i>Amphioplus</i> (<i>Unioplus</i>) Fell, 1962</b>	
632	<i>Amphioplus</i> ( <i>Unioplus</i> ) <i>caulleryi</i> (Koehler, 1897)	Koehler (1897, 1899), Sastry (2007)
<b>Family</b>	<b>Ophiactidae Matsumoto, 1915</b>	
633	<i>Histampica duplicata</i> (Lyman, 1875)	Koehler (1897, 1899), Sastry (2007)
634	<i>Ophiactis brachyura</i> Döderlein, 1898	Sastry (2004, 2007)
635	<i>Ophiactis definita</i> Koehler, 1922	Stöhr <i>et al.</i> (2012)
636	<i>Ophiactis delagoa</i> J.B. Balinsky, 1957	Sastry (1995, 2005, 2007)
637	<i>Ophiactis macrolepidota</i> Marktanner-Turneretscher, 1887	Sastry (2007)
638	<i>Ophiactis modesta</i> Brock, 1888	James (1969, 1983b, 1985), Sastry (2001, 2002, 2007)
639	<i>Ophiactis perplexa</i> Koehler, 1897	Koehler (1897, 1899), Sastry (2007)
640	<i>Ophiactis picteti</i> (de Loriol, 1893)	James (1983b), Sastry (2002, 2005, 2007)

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TABLE 3. (Continued)

Species		References
641	<i>Ophiactis savignyi</i> (Müller & Troschel, 1842)	Bell (1888), Sane & Chhappar (1962), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1983b, 1985, 1989), Sastry (1998, 1999) in Sastry 2005, Sastry (1991, 2001, 2002, 2004, 2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a), Raghunathan & Venkataraman (2012)
<b>Family</b>	<b>Ophiocomidae Ljungman, 1867</b>	
<b>Subfamily</b>	<b>Ophiocominae</b>	
642	<i>Ophiarthrum elegans</i> Peters, 1851	[Koehler (1898), James (1991), Sastry (1999) in Sastry 2005 & 2007], James (1969, 1982d, 1983b), Clark & Rowe (1971), Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007)
643	<i>Ophiarthrum pictum</i> (Müller & Troschel, 1842)	James (1969, 1970a, 1983b), Sastry (1997, 2001, 2002, 2005, 2007), Sastry <i>et al.</i> (2004), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
644	<i>Ophiocoma aethiops</i> Lütken, 1859	Bell (1887)
645	<i>Ophiocoma anaglyptica</i> Ely, 1944	James (1969, 1982b, d, 1989), Sastry (1991, 2007), Raghunathan & Venkataraman (2012)
646	<i>Ophiocoma erinaceus</i> Müller & Troschel, 1842	Bell (1888), [Koehler (1899), James (1991), Sastry (1999) in Sastry 2005 & 2007], Clark & Rowe (1971), Nagabhushanam & Rao (1972), James (1969, 1982b, d, 1983b, 1989), Price & Rowe (1996), Sastry (1991, 2001, 2002, 2005, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Karuppaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
647	<i>Ophiocoma pica</i> Müller & Troschel, 1842	James (1969, 1982b, d, 1983b, 1989), Price & Rowe (1996), Sastry (1991, 2002, 2005, 2007)
648	<i>Ophiocoma pusilla</i> (Brock, 1888)	Sastry (1999) in Sastry 2005, Sastry (2001, 2002, 2005, 2007), Raghunathan & Venkataraman (2012)
649	<i>Ophiocoma scolopendrina</i> (Lamarck, 1816)	Bell (1887, 1888), [Koehler (1898), Gravely (1927) in Sastry 2007], Nagabhushanam & Rao (1972), Satyamurti (1976), James (1969, 1982b, c, 1983b, 1985, 1989), [James (1991), Sastry (1999), in Sastry 2005 & 2007], Sastry (1991, 2001, 2002), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Raghunathan <i>et al.</i> (2013)
650	<i>Ophiocoma valenciae</i> Müller & Troschel, 1842	Nagabhushanam & Rao (1972), Sastry (1991), Rao & Kumar (2014)
651	<i>Ophiocomella sexradia</i> (Duncan, 1887)	Bell (1888), Clark & Rowe (1971), James (1983b, 1985, 1989), Sastry (1991, 2002, 2004, 2005, 2007)
652	<i>Ophiomastix annulosa</i> (Lamarck, 1816)	Bell (1887), [Koehler (1898), James (1991), Sastry (1999) in Sastry 2005 & 2007], Nagabhushanam & Rao (1972), James (1969, 1982d, 1983b, 1989), Sastry (1991, 2001, 2002), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
<b>Subgenus</b>	<b><i>Ophiocoma (Breviturma)</i> Stöhr, Boissin &amp; Hoareau, 2013</b>	
653	<i>Ophiocoma (Breviturma) brevipes</i> Peters, 1851	Bell (1888), Clark & Rowe (1971), Nagabhushanam & Rao (1972), James (1969, 1982b, c, 1983b, 1989), Sastry (1999) in Sastry 2005, Sastry (1991, 2001, 2002, 2007), Raghunathan & Venkataraman (2012), Rao & Kumar (2014)

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TABLE 3. (Continued)

Species	References
654 <i>Ophiocoma (Breviturma) dentata</i> Müller & Troschel, 1842	James (1969, 1982b, 1983b, 1989), [James (1991), Sastry (1999a & b) in Sastry 2005], Sastry (1991, 2001, 2002, 2007), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
655 <i>Ophiocoma (Breviturma) doederleini</i> de Lorient, 1899	Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004)
<b>Subfamily Ophiopsilinae Matsumoto, 1915</b>	
656 <i>Ophiopsila pantherina</i> Koehler, 1898	Koehler (1898) in Sastry 2005 & 2007, Clark & Rowe (1971), James (1983b), Sastry (2002)
<b>Family Ophionereididae Ljungman, 1867</b>	
657 <i>Ophionereis andamanensis</i> James, 1982	James (1982a), James (1987) in Sastry 2005, Sastry (2002, 2007)
<b>Subspecies</b>	
658 <i>Ophionereis dubia dubia</i> (Müller & Troschel, 1842)	Sane & Chhapgar (1962), Clark & Rowe (1971), James (1969, 1985), Sastry (2002, 2005, 2007)
659 <i>Ophionereis porrecta</i> Lyman, 1860	Koehler (1898) in Sastry 2005 & 2007, Clark & Rowe (1971), James (1982d, 1983b), Sastry (1991, 2002, 2005, 2007)
660 <i>Ophionereis semoni</i> (Döderlein, 1896)	Clark AM (1953)
<b>Family Ophiotrichidae Ljungman, 1867</b>	
661 <i>Gymnolophus obscura</i> (Ljungman, 1867)	James (1969, 1985), Sastry (2007), Nigam & Raghunathan (2016)
662 <i>Macrophiothrix aspidota</i> (Müller & Troschel, 1842)	Müller & Troschel (1842), Sane & Chhapgar (1962), Clark AM (1968), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1982d, 1983b, 1985), Sastry (1999) in Sastry 2005, Sastry (2002, 2004, 2007), Karuppaiyan (2007), Rao & Kumar (2014)
663 <i>Macrophiothrix demessa</i> (Lyman, 1861)	Sastry (1991, 2001, 2002, 2005, 2007)
664 <i>Macrophiothrix galathea</i> (Lütken, 1872)	Clark AM (1968), James (1969), Satyamurti (1976), Sastry (2002, 2007)
665 <i>Macrophiothrix hirsuta</i> (Müller & Troschel, 1842)	Satyamurti (1976)
666 <i>Macrophiothrix koehleri</i> A.M. Clark, 1968	Sastry (2002, 2005)
667 <i>Macrophiothrix longipeda</i> (Lamarck, 1816)	Bell (1888), [Koehler (1898), Sastry (1999) in Sastry 2005], Clark & Rowe (1971), James (1983b, 1985, 1989), Sastry (1991, 2001, 2002, 2007), Sastry <i>et al.</i> (2004), Rao & Sastry (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
668 <i>Macrophiothrix nereidina</i> (Lamarck, 1816)	Bell (1888), [Koehler (1898) in Sastry 2005 & 2007], Clark & Rowe (1971), Nagabhushanam & Rao (1972), James (1969, 1989), Sastry (1997, 2002, 2005), Raghunathan & Venkataraman (2012)
669 <i>Macrophiothrix propinqua</i> (Lyman, 1861)	[Koehler (1898), Sastry (1999) in Sastry 2005 & 2007], James (1983b), Sastry (1991, 1997, 2001, 2002), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
670 <i>Macrophiothrix speciosa</i> (Koehler, 1898)	Koehler (1898) in Sastry 2005 & 2007, James (1969, 1983b), Clark & Rowe (1971)
671 <i>Macrophiothrix striolata</i> (Grube, 1868)	Koehler (1898) in Sastry 2007

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**TABLE 3.** (Continued)

Species	References	
672	<i>Macrophiothrix variabilis</i> (Duncan, 1887)	Clark AM (1968), James (1969, 1982d, 1985), Clark & Rowe (1971), Sastry (2007)
673	<i>Ophiocnemis marmorata</i> (Lamarck, 1816)	Bell (1888), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1983, 1985), Sastry (2002, 2005, 2007), Karuppaiyan (2007), Rao <i>et al.</i> (2009), Venkatraman <i>et al.</i> (2013)
674	<i>Ophiogymna elegans</i> Ljungman, 1866	James (1985), Sastry (2007)
675	<i>Ophiogymna lineata</i> H.L. Clark, 1938	James (1969), Sastry (2007)
676	<i>Ophiogymna pellicula</i> (Duncan, 1887)	Koehler (1898) in Sastry 2007, Clark & Rowe (1971)
677	<i>Ophiolophus novarae</i> Marktanner-Turneretscher, 1887	Marktanner-Turneretscher, (1887), Clark & Rowe (1971), Sastry (2002, 2007)
678	<i>Ophiomaza cacaotica</i> Lyman, 1871	Bell (1888), James (1969, 1985), Clark & Rowe (1971), Sastry (2002, 2005, 2007)
679	<i>Ophiomaza cataphracta</i> (Brock, 1888)	James (1969)
680	<i>Ophiopsammium semperi</i> Lyman, 1874	Karuppaiyan (2007)
681	<i>Ophiopteron elegans</i> Ludwig, 1888	Koehler (1898) in Sastry 2005 & 2007, James (1983b), Sastry (2002)
682	<i>Ophiothela danae</i> Verrill, 1869	Sane & Chhapgar (1962), Clark & Rowe (1971), Satyamurti (1976), James (1969, 1985), James (1991) in Sastry 2005, Sastry (2001, 2002, 2005, 2007), Karuppaiyan (2007), Rao & Sastry (2007)
683	<i>Ophiothrix merguiensis</i> Duncan, 1887	Clark & Rowe (1971)
684	<i>Ophiothrix variegata</i> Duncan, 1887	James (1969), Sastry (2007)
<b>Subgenus</b>	<b><i>Ophiothrix (Acanthophiothrix)</i></b>	
685	<i>Ophiothrix (Acanthophiothrix) diligens</i> Koehler, 1898	Koehler (1898) in Sastry 2005 & 2007, James (1983b)
686	<i>Ophiothrix (Acanthophiothrix) lepidus</i> de Loriol, 1893	James (1983b)
687	<i>Ophiothrix (Acanthophiothrix) proteus</i> Koehler, 1905	Sastry (2002, 2005, 2007), Karuppaiyan (2007), Rao & Kumar (2014)
688	<i>Ophiothrix (Acanthophiothrix) purpurea</i> von Martens, 1867	Sastry (1898) in Sastry 2005, James (1983b), Sastry (1991, 1997, 2002, 2007)
689	<i>Ophiothrix (Acanthophiothrix) vigelandi</i> A.M. Clark, 1968	Sastry (1991, 1997, 2002, 2005, 2007)
<b>Subgenus</b>	<b><i>Ophiothrix (Ophiothrix)</i></b>	
690	<i>Ophiothrix (Ophiothrix) accedens</i> Koehler, 1930	James (1969, 1985), Sastry (2007)
691	<i>Ophiothrix (Ophiothrix) aristulata</i> Lyman, 1879	Koehler (1897, 1899), James (1983b), Sastry (2007)
692	<i>Ophiothrix (Ophiothrix) ciliaris</i> (Lamarck, 1816)	[Koehler (1898), Sastry (1998) in Sastry 2005], James (1983b), Sastry (2002, 2007)
693	<i>Ophiothrix (Ophiothrix) exigua</i> Lyman, 1874	James (1983b, 1985), Sastry (1999) in Sastry 2005 & 2007, Sastry (2001, 2002)
694	<i>Ophiothrix (Ophiothrix) foveolata</i> Marktanner-Turneretscher, 1887	Koehler (1898) in Sastry 2005 & 2007, Sastry (2002, 2004)
695	<i>Ophiothrix (Ophiothrix) koreana</i> Duncan, 1879	Satyamurti (1976)
696	<i>Ophiothrix (Ophiothrix) savignyi</i> (Müller & Troschel, 1842)	Koehler (1898) in Sastry 2007, Sadhukhan <i>et al.</i> (2012)

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**TABLE 3.** (Continued)

Species	References	
697	<i>Ophiothrix (Ophiothrix) spiculata</i> Le Conte, 1851	Rao & Kumar (2014)
698	<i>Ophiothrix (Ophiothrix) trilineata</i> Lütken, 1869	[Koehler (1898), Sastry (1999) in Sastry 2005 & 2007], Clark & Rowe (1971), James (1983b), Sastry (1991, 2001, 2002)
699	<i>Ophiothrix (Ophiothrix) vitrea</i> Döderlein, 1896	Koehler (1898) in Sastry 2005 & 2007, James (1983b)
<b>Infraorder</b>	<b>Ophiodermatina Smith, Paterson &amp; Lafay, 1995</b>	
<b>Family</b>	<b>Ophiochitonidae Matsumoto, 1915</b>	
700	<i>Ophiochiton ambulator</i> Koehler, 1897	Koehler (1897, 1899), Sastry (2007)
701	<i>Ophioplax custos</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2002, 2005, 2007)
<b>Family</b>	<b>Ophiodermatidae Ljungman, 1867</b>	
702	<i>Bathypectinura heros</i> (Lyman, 1879)	Koehler (1897, 1899), Clark HL (1909), Satyamurti (1976), Sastry (2007)
703	<i>Cryptopelta granulifera</i> H.L. Clark, 1909	Price & Rowe (1996)
704	<i>Ophiochaeta hirsuta</i> Lütken, 1869	Price & Rowe (1996)
705	<i>Ophioconis indica</i> Koehler, 1897	Koehler (1897, 1899, 1922), James (1983b), Sastry (2007)
706	<i>Ophiodyscrita acosmeta</i> H.L. Clark, 1938	Sastry (2004, 2007)
707	<i>Ophiopsammus yoldii</i> (Lütken, 1856)	Clark & Rowe (1971), Sastry (2002, 2005, 2007), Raghunathan & Venkataraman (2012), Rao & Kumar (2014)
<b>Subspecies</b>	<i>Ophiopeza fallax arabica</i> A.M. Clark, 1968	Sastry (2004, 2007)
708		
<b>Subfamily</b>	<b>Ophiarachninae Matsumoto, 1915</b>	
709	<i>Ophiarachna incrassata</i> (Lamarck, 1816)	Bell (1887), James (1983b), Clark & Rowe (1971), Sastry (2005), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
710	<i>Ophiarachnella gorgonia</i> (Müller & Troschel, 1842)	Bell (1887, 1888), Koehler (1898) in Sastry 2005 & 2007, Clark HL (1909), James (1969, 1982d, 1983b, 1985), Clark & Rowe (1971), Satyamurti (1976), Sastry (2002), Venkataraman <i>et al.</i> (2013), Venkataraman & Padmanaban (2013)
711	<i>Ophiarachnella infernalis</i> (Müller & Troschel, 1842)	Satyamurti (1976), James (1983b), Sastry (1999) in Sastry 2005 & 2007, Sastry (2002)
712	<i>Ophiarachnella septemspinosa</i> (Müller & Troschel, 1842)	James (1982d)
713	<i>Ophiarachnella sphenisci</i> (Bell, 1894)	Sastry (2002, 2007)
<b>Infraorder</b>	<b>Ophiolepidina Ljungman, 1867</b>	
<b>Family</b>	<b>Ophiolepididae Ljungman, 1867</b>	
714	<i>Aspidophiura forbesi</i> (Duncan, 1879)	Koehler (1898) in Sastry 2005, James (1983b)
715	<i>Ophiolepis nodosa</i> Duncan, 1887	Bell (1888), Clark & Rowe (1971)
716	<i>Ophiolepis superba</i> H.L. Clark, 1915	Müller & Troschel (1842), Bell (1887, 1888), James (1969, 1981a, 1983b, 1989), Clark & Rowe (1971), Sastry (2001, 2002, 2005, 2007), Raghunathan & Venkataraman (2012)
717	<i>Ophiomusium familiare</i> Koehler, 1897	Koehler (1897, 1899), Sastry (2007)
718	<i>Ophiomusium relictum</i> Koehler, 1904	Hertz (1927 in Sastry 2005 & 2007, James (1983b)
719	<i>Ophiomusium scalare</i> Lyman, 1878	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)

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**TABLE 3.** (Continued)

Species	References
720 <i>Ophiomusium simplex</i> Lyman, 1878	Koehler (1897), Koehler (1899) in Sastry 2007, Sastry (1987, 2005)
721 <i>Ophiomusium validum</i> Ljungman, 1872	Koehler (1899), Sastry (2007)
722 <i>Ophioplocus imbricatus</i> (Müller & Troschel, 1842)	Bell (1888), James (1983b), Clark & Rowe (1971), Sastry (2002, 2004, 2005, 2007), Sastry <i>et al.</i> (2004)
723 <i>Ophiosphalma armigerum</i> (Lyman, 1878)	Koehler (1897, 1899)
724 <i>Ophiosphalma elegans</i> (Koehler, 1897)	Koehler (1897, 1899), Hertz (1927) in Sastry 2005 & 2007, James (1983b)
725 <i>Ophiosphalma fimbriatum</i> (Koehler, 1922)	James (1969), Sastry (2007)
726 <i>Ophiotrochus panniculus</i> Lyman, 1878	Koehler (1897, 1899), Sastry (2007)
727 <i>Ophiozonella bispinosa</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2007)
728 <i>Ophiozonella molesta</i> (Koehler, 1904)	Koehler (1922) in Sastry 2005, Sastry (2007)
<b>Subspecies</b> <i>Ophiolepis cincta cincta</i> Müller & Troschel, 1842	Bell (1888), James (1969, 1981a, 1982d, 1983b, 1989), Clark & Rowe (1971), Price & Rowe (1996), Sastry (1998, 1999) in Sastry 2005, Sastry (2001, 2002, 2007)
<b>Order</b> <b>Euryalida Lamarck, 1816</b>	
<b>Family</b> <b>Asteronychidae Verrill, 1899</b>	
730 <i>Asteronyx loveni</i> Müller & Troschel, 1842	Koehler (1897), Koehler (1899) in Sastry 2007
<b>Family</b> <b>Gorgonocephalidae Ljungman, 1867</b>	
731 <i>Astroboa clavata</i> (Lyman, 1861)	Thurston (1895) in Sastry 2007, James (1969, 1985), Clark & Rowe (1971), Karuppaiyan (2007),
732 <i>Astroboa nuda</i> (Lyman, 1874)	James (1988) in Sastry 2007
733 <i>Astrocladus dofleini</i> Döderlein, 1910	Bomford (1913)
734 <i>Astrocladus exiguus</i> (Lamarck, 1816)	Clark & Rowe (1971), Koehler (1897, 1899), James (1983b), Sastry (2002, 2005, 2007)
735 <i>Astrodendrum laevigatum</i> (Koehler, 1897)	Satyamurti (1976)
<b>Superfamily</b> <b>Euryalidea Gray, 1840</b>	
<b>Family</b> <b>Asteroschematidae Verrill, 1899</b>	
736 <i>Asteroschema fastosum</i> Koehler, 1904	Döderlein (1930) in Sastry 2005, Sastry (2002, 2007)
737 <i>Asteroschema flosculus</i> Alcock, 1893	Alcock (1893b), Sastry (2002, 2005, 2007)
738 <i>Asteroschema subfastosum</i> Döderlein, 1930	Döderlein (1930) in Sastry 2005 & 2007, Sastry (2002)
739 <i>Asteroschema sampadae</i> Parameswaran & Jaleel, 2012	Parameswaran & Jaleel (2012)
740 <i>Ophiocreas sibogae</i> Koehler, 1904	Döderlein (1930) in Sastry 2005 & 2007, Sastry (2002)
<b>Subfamily</b> <b>Euryalinae Gray, 1840</b>	
741 <i>Trichaster flagellifer</i> von Martens, 1866	Bomford (1913)

**TABLE 4.** Checklist of taxonomic inconsistencies in echinoderms of Indian waters.

No.	Species	Remarks	References
Class	Asteroidea		
1	<i>Asterina burtoni</i> Gray, 1840	Synonym of <i>Aquilonastra burtoni</i> (Gray, 1840)	Bell (1888), Clark & Rowe (1971), James (1969, 1982d, 1983, 1985), Sastry (1991, 2002, 2004, 2005, 2007), Rao <i>et al.</i> (2009), Sadhukhan & Raghunathan (2012a), Raghunathan & Venkataraman (2012), Venkataraman & Padmanaban (2013), Rao & Kumar (2014)
2	<i>Asterina burtoni cepheus</i> (Müller & Troschel, 1842)	Synonym (moved to <i>Aquilonastra</i> by O'Loughlin (2004) of <i>Aquilonastra cepheus</i> (Müller & Troschel, 1842)	Julka & Das (1978) in Sastry 2007
3	<i>Asterina cepheus</i> Müller & Troschel, 1842	Synonym of <i>Aquilonastra cepheus</i> (Müller & Troschel, 1842)	Bell (1888), [Thurston (1895), Koehler (1910) in Sastry 2007], Sastry (2005), Raghunathan & Venkataraman (2012), Rao & Kumar (2014)
4	<i>Asterina coronata</i> von Martens, 1866	Synonym of <i>Aquilonastra coronata</i> (von Martens, 1866)	Sastry (2007)
5	<i>Asterina sarasini</i> (deLoriol, 1897)	Synonym of <i>Indianastra sarasini</i> (deLoriol, 1897)	Clark & Rowe (1971), James (1982d, 1983b, 1985), Clark AM (1993) in Sastry 2007, Sastry (1997, 2001, 2002, 2005), Karupaiyan (2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013)
6	<i>Astroceramis fisheri</i> Koehler	Emendation of <i>Astroceramus fisheri</i> Koehler, 1909	Koehler (1909), James (1983b), Sastry (2005)
7	<i>Asterodiscus elegans</i> Gray, 1847	Synonym of <i>Asterodiscides elegans</i> (Gray, 1847)	Clark & Rowe (1971), Karupaiyan (2007)
8	<i>Craspidaster glauconotus</i> Bedford, 1900	Subspecies inclusion <i>Craspidaster hesperus glauconotus</i> Bedford, 1900	Koehler (1910)
9	<i>Cribrella praestans</i> Sladen, 1889	Synonym of <i>Henricia praestans</i> (Sladen, 1889)	Alcock (1893a), Sastry (2005)
10	<i>Dictyaster wood-masoni</i> Alcock, 1893	nomen nudum	Sastry (2007)
11	<i>Disasterina leptalacantha</i> (H.L. Clark, 1916)	Synonym of <i>Tegulaster leptalacantha</i> (H.L. Clark, 1916)	Sastry (1991, 2007)
12	<i>Disasterina spinulifera</i> H.L. Clark, 1938	Synonym of <i>Tegulaster praesignis</i> (Livingstone, 1933)	Julka & Das (1978) in Sastry 2007, Sastry (2002, 2005)
13	<i>Dorigona ternalis</i> Perrier, 1885	Synonym of <i>Nymphaster arenatus</i> (Perrier, 1881) [according to Halpern (1970)]	Koehler (1909)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
14	<i>Dytaster exilis</i> Sladen, 1889	Synonym of <i>Dytaster insignis</i> (Perrier, 1884) [according to Downey (1973)]	Wood-Mason & Alcock (1891), Alcock (1893a), Clark AM (1989) in Sastry 2007
15	<i>Echinaster (Echinaster) callosus</i> von Marenzeller	This might be an alternate representation of <i>Echinaster callosus</i> Marenzeller, 1895	Sastry (2005, 2007)
16	<i>Echinaster (Echinaster) luzonicus</i> (Gray, 1840)	This might be an alternate representation of <i>Echinaster luzonicus</i> (Gray, 1840)	Sastry (2005)
17	<i>Echinaster (Echinaster) purpureus</i> (Gray, 1840)	This might be an alternate representation of <i>Echinaster purpureus</i> (Gray, 1840)	Sastry (2005)
18	<i>Gorgonocephalus cornutus</i> Koehler, 1897	Synonym of <i>Astrocladus exiguus</i> (Lamarck, 1816)	Koehler (1897, 1899), James (1983b)
19	<i>Luidia (Luidia) demudata</i> Koehler, 1910	This might be an alternate representation of <i>Luidia demudata</i> Koehler, 1910	Clark AM (1989) in Sastry 2007
20	<i>Luidia (Luidia) hardwicki</i> Gray, 1840	This might be an alternate representation of <i>Luidia hardwicki</i> (Gray, 1840)	Clark AM (1989) in Sastry 2007, Rao <i>et al.</i> (2009)
21	<i>Luidia (Luidia) integra</i> Koehler, 1910	This might be an alternate representation of <i>Luidia integra</i> Koehler, 1910	[Koehler (1910), Clark AM (1989) in Sastry 2007], Sastry (2005)
22	<i>Luidia (Luidia) limbata</i> Sladen. This might be an alternate representation of <i>Luidia limbata</i> Sladen, 1889	Synonym of <i>Luidia quinaria</i> Martens, 1865	James (1983b), Sastry (2005, 2007)
23	<i>Nardoia lemomnieri</i> Koehler, 1910	Synonym of <i>Nardoia galathea</i> (Lütken, 1864)	Clark & Rowe (1971), Sastry (2007), Sadhukhan & Raghunathan (2012c)
24	<i>Nymphaster basilicus</i> Sladen, 1889	Synonym of <i>Nymphaster arenatus</i> (Perrier, 1881) [according to Halpern (1970)]	Alcock (1893a), Koehler (1909)
25	<i>Patiriella pseudoexigua</i> Dartnall, 1971	Synonym of <i>Cryptasterina pentagona</i> (Müller & Troschel, 1842)	James (1989), Sastry (2002, 2005, 2007)
26	<i>Phidiaster agassizi</i> Koehler, 1909	Synonym of <i>Psilaster agassizi</i> (Koehler, 1909)	Koehler (1909), Sastry (2007)
27	<i>Porcellanaster caulifer</i> Sladen	Synonym of <i>Porcellanaster ceruleus</i> Wyville Thomson, 1877	Koehler (1909), Clark AM (1989), Sastry (2005, 2007)
28	<i>Tegulaster ceylanica</i> (Döderlein, 1888)	Synonym of <i>Disasterina ceylanica</i> Döderlein, 1888	James (1983b, 1985), Sastry (2005, 2007)
29	<i>Zoroaster gilesii</i> Alcock, 1893	Synonym of <i>Cnemidaster gilesi</i> (Alcock, 1893)	Alcock (1893a), James (1983b), Sastry (2005, 2007)
30	<i>Zoroaster zea</i> Alcock, 1893	Synonym of <i>Cnemidaster zea</i> (Alcock, 1893)	Alcock (1893a), Clark & Mah (2001) in Sastry 2007

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TABLE 4. (Continued)

No.	Species	Remarks	References
<b>Class</b>	<b>Crinoidea</b>		
31	<i>Colobometra brevicirra</i> AH Clark, 1912 It is <i>Colobometra (Prometra) brevicirra</i> AH Clark, 1912	Synonym of <i>Decametra brevicirra</i> (AH Clark, 1912)	?Clark AH (1912b)
32	<i>Comanthina nobilis</i> (Carpenter, 1884)	Synonym of <i>Comaster nobilis</i> (Carpenter, 1884)	Sastry (1997, 2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
33	<i>Comanthina schlegelii</i> (Carpenter, 1881)	Synonym of <i>Comaster schlegelii</i> (Carpenter, 1881)	Clark AH (1912b), Clark & Rowe (1971), Karuppaiyan (2007), Rao & Kumar (2014)
34	<i>Comanthus alternans</i> (Carpenter, 1881)	Synonym of <i>Clarkcomanthus alternans</i> (Carpenter, 1881)	Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012 a)
35	<i>Comanthus bennetti</i> (Müller, 1841)	Synonym of <i>Anneissia bennetti</i> (Müller, 1841)	Clark AH (1912b, 1931), Clark & Rowe (1971), Raghunathan & Venkataraman (2012)
36	<i>Comanthus samoanus</i> (AH Clark, 1909)	Synonym of <i>Comanthus wahlbergii</i> (Müller, 1843)	Clark & Rowe (1971), Sastry (2001, 2005, 2007)
37	<i>Comanthus wahlbergii</i> (Müller, 1843)	Synonym (alternative spelling) of <i>Comanthus wahlbergii</i> (Müller, 1843)	Sastry (2005, 2007)
38	<i>Comaster gracilis</i> (Hartlaub)	Synonym of <i>Phanogenia gracilis</i> (Hartlaub, 1893)	Clark AH (1912b), Clark & Rowe (1971), James (1983b, 1985, 1988), Sastry (2005, 2007)
39	<i>Comaster multibrachiata</i> (Carpenter, 1888)	Synonym of <i>Phanogenia multibrachiata</i> (Carpenter, 1888)	Clark AH (1912b, 1931), James (1983b), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
40	<i>Comaster multibrachiatus</i> (Carpenter, 1888)	Synonym of <i>Phanogenia multibrachiata</i> (Carpenter, 1888)	Clark & Rowe (1971), Sastry (2005, 2007)
41	<i>Comaster parvus</i> AH Clark, 1909	Synonym of <i>Phanogenia distincta</i> (Carpenter, 1888)	Clark AH (1909a), 1912b), James (1983b), Sastry (2005, 2007)
42	<i>Comastrocrinus ornatus</i> (AH Clark, 1909)  Emendation of <i>Comastrocrinus ornatus</i>	Synonym of <i>Teliocrinus springeri</i> (AH Clark, 1909)	Sastry (2007)
43	<i>Comastrocrinus ornatus</i> (AH Clark, 1909)	Synonym of <i>Teliocrinus springeri</i> (AH Clark, 1909)	Clark AH (1912b) in Sastry (2005), James (1983b)
44	<i>Comastrocrinus springeri</i> (AH Clark, 1909)	Synonym of <i>Teliocrinus springeri</i> (AH Clark, 1909)	Clark AH (1912b), Sastry (2005, 2007)
45	<i>Comatula brevicirra</i> (Bell) Original name is <i>Antedon brevicirra</i> Bell, 1894	Synonym of <i>Phanogenia distincta</i> (Carpenter, 1888)	Clark AH (1931, 1932), James (1983b), Sastry (2005, 2007)
46	<i>Comatula micraster</i> AH Clark, 1909	Subgenus included (alternate representation) <i>Comatula micraster</i> (AH Clark, 1909)	Clark AH (1909a), 1912b), James (1983b), Sastry (2005, 2007)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
47	<i>Comatula pectinata</i> (Linnaeus)	Subgenus included (alternate representation) <i>Comatula</i> ( <i>Comatula</i> ) <i>pectinata</i> (Linnaeus, 1758)	Clark AH (1912b), Clark & Rowe (1971), Sastry (2005, 2007), Venkataraman <i>et al.</i> (2011)
48	<i>Craspedometra anceps</i> (P.H. Carpenter)	Synonym of <i>Heterometra quinduplicava</i> (Carpenter, 1888)	Clark AH (1912b), Sastry (2002, 2005, 2007)
49	<i>Crotalometra eridanella</i> AH Clark, 1929	Synonym of <i>Crotalometra rustica</i> AH Clark, 1909	Clark AH (1929), James (1983b), Sastry (2005)
50	<i>Dichrometra protectus</i> (Lüttern in P.H. Carpenter)	Synonym of <i>Lamprometra palmata</i> (Müller, 1841)	Clark AH (1912b), James (1983b), Sastry (2002, 2005, 2007)
51	<i>Eudiocrinus minor</i> AH Clark, 1909	Synonym of <i>Eudiocrinus ornatus</i> AH Clark, 1909	Sastry (2005, 2007)
52	<i>Eumetra indica</i> AH Clark, 1909	Synonym of <i>Andrometra indica</i> (AH Clark, 1909)	Clark AH (1909a, 1912b), James (1983b)
53	<i>Himerometra magnipinna</i> AH Clark, 1908	Synonym of <i>Himerometra robustipinna</i> (Carpenter, 1881)	Sastry (1997, 2002, 2005, 2007), Venkataraman <i>et al.</i> (2011)
54	<i>Iconaster pentaphyllus</i> (Alcock) Emendation of <i>Iconaster pentaphylla</i> Koehler, 1909	Synonym of <i>Lithosoma pentaphylla</i> (Alcock, 1893)	Koehler (1909), James (1983b), Sastry (2005)
55	<i>Oligometra imbricata</i> AH Clark, 1908	Synonym of <i>Oligometra serripinna</i> (Carpenter, 1881)	Clark AH (1912b), Sastry (2007)
56	<i>Iridometra nana</i> (Hartlaub, 1890)	Synonym of <i>Dorometra nana</i> (Hartlaub, 1890)	James (1983b)
57	<i>Oxycomanthus benneti</i> (Müller, 1841) Emendation of <i>Oxycomanthus bennetti</i>	Synonym of <i>Anneissia bennetti</i> (Müller, 1841)	Sastry (2001, 2002, 2005), Venkataraman <i>et al.</i> (2011), Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
58	<i>Perissometra occidentalis</i> AH Clark, 1929	Synonym of <i>Glyptometra macilenta</i> (AH Clark, 1909)	Clark AH (1929), James (1983b), Sastry (2005, 2007)
59	<i>Psathyrometra inusitata</i> AH Clark, 1912	Synonym of <i>Athrypsometra mira</i> (AH Clark, 1909)	Clark AH (1912a), Sastry (2005, 2007)
60	<i>Psathyrometra mira</i> AH Clark, 1909	Synonym of <i>Athrypsometra mira</i> (AH Clark, 1909)	Clark AH (1909b, 1912a), James (1983b), Sastry (2007), Raghunathan & Venkataraman (2012)
61	<i>Sarametra nicobarica</i> AH Clark, 1929	Synonym of <i>Sarametra triserialis</i> (AH Clark, 1908)	Clark AH (1929), Clark AH & AM Clark (1967), James (1983b), Sastry (2005, 2007),
62	<i>Selenometra aranea</i> (AH Clark, 1909)	Synonym of <i>Oxymetra finschii</i> (Hartlaub, 1890)	Clark AH (1929), James (1983b), Sastry (2005, 2007)
63	<i>Stephanometra coronata</i> (AH Clark, 1909)	Synonym of <i>Stephanometra tenuipinna</i> (Hartlaub, 1890)	Clark AH (1912a), Sastry (2005, 2007)
64	<i>Stephanometra monacantha</i> (Hartlaub, 1890)	Synonym of <i>Stephanometra indica</i> (Smith, 1876)	Clark AH (1909b, 1912a), James (1983b), Sastry (2007), Raghunathan & Venkataraman (2012)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
65	<i>Stephanometra spicata</i> (Carpenter, 1881)	Synonym of <i>Stephanometra indica</i> (Smith, 1876)	Clark AH (1929), Clark AH & AM Clark (1967), James (1983b), Sastry (2005, 2007)
66	<i>Thalassometra pergracilis</i> (AH Clark, 1907)	Synonym of <i>Thalassometra gracilis</i> (Carpenter, 1888)	Sastry (2005)
67	<i>Trichometra plana</i> AH Clark, 1912	Synonym of <i>Thaumatometra plana</i> (AH Clark, 1912)	Clark AH (1912b), Sastry (2007)
68	<i>Tropiometra encrinus</i> AH Clark, 1911	Synonym of <i>Tropiometra carinata</i> (Lamarck, 1816)	Clark AH (1912b, 1932), Gravely (1941) in Sastry 2007, Rao & Sowbhagyavathi (1972)
<b>Class</b>	<b>Echinoidea</b>		
69	<i>Caenopedina depressa</i> Koehler, 1927	Nomen dubium	Koehler (1927), Sastry (2007)
70	<i>Clypeaster (Coronanthus) patriformis</i> Mortensen, 1948	Synonym of <i>Clypeaster pateriformis</i> Mortensen, 1948 (subgeneric subdivision of <i>Clypeaster</i> not accepted by scientific community)	Karuppaiyan (2007)
71	<i>Clypeaster (Stolonoclypus) prostratus</i> Ravenel, 1848	Synonym of <i>Clypeaster prostratus</i> Ravenel, 1848	Karuppaiyan (2007)
72	<i>Clypeaster (Stolonoclypus) subdepressus</i> (Gray, 1825)	Synonym of <i>Clypeaster subdepressus</i> (Gray, 1825)	Karuppaiyan (2007)
73	<i>Colobocentrotus atratus</i> (Linnaeus, 1758)	Synonym of <i>Colobocentrotus (Podophora) atratus</i> (Linnaeus, 1758)	Bell (1887), Clark & Rowe (1971), James (1983b), Sastry (2002, 2005, 2007)
74	<i>Diadema savignyi</i> (Michelin, 1845)	Author misnomer	Sastry <i>et al.</i> (2004), Raghunathan & Venkataraman (2012)
75	<i>Dorocidaris lorioli</i> Koehler	Synonym of <i>Stylocidaris lorioli</i> (Koehler, 1927)	Koehler (1927), James (1983b)
76	<i>Echinolampas castanea</i> Alcock, 1893	Subjective junior synonym of <i>Echinolampas ovata</i> (Leske, 1778)	Alcock (1893b), Sastry (2007)
77	<i>Echinometra oblonga</i> (Blainville, 1825)	Synonym (accepted as subspecies rank) of <i>Echinometra mathaei oblonga</i> (Blainville, 1825)	Sastry (2005, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Rao & Kumar (2014), Mishra <i>et al.</i> (2015)
78	<i>Hemiaster vanus</i> Koehler, 1914	Synonym (transferred to <i>Holanthus</i> ) of <i>Holanthus vanus</i> (Koehler, 1914)	Sastry (2007)
79	<i>Heterocentrotus mamillatus</i> (Linnaeus, 1758)	Emendation of <i>Heterocentrotus mamillatus</i> (Linnaeus, 1758)	Sastry (2007)
80	<i>Laganum depressum</i> L. Agassiz, 1841	Synonym of <i>Jacksonaster depressum</i> (L. Agassiz, 1841) (Genus transfer)	Clark & Rowe (1971), Sastry (2007), Venkataraman <i>et al.</i> (2013)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
81	<i>Nacospatangus (Pseudomaretia) alta</i> (A. Agassiz, 1864) Original name is <i>Maretia alta</i> A. Agassiz, 1864	Synonym (transferred to <i>Nacospatangus</i> ) <i>Nacospatangus alta</i> (A. Agassiz, 1864)	Anderson (1894) in Sastry 2007, Rao <i>et al.</i> (2009)
82	<i>Paraster gibberulus</i> (L. Agassiz in L. Agassiz & Desor, 1847)	Synonym of <i>Schizaster gibberulus</i> L. Agassiz in L. Agassiz & Desor, 1847	Clark & Rowe (1971), Karuppaiyan (2007)
83	<i>Peronella lessueuri</i> (L. Agassiz, 1841)	Emendation of <i>Peronella lesueuri</i> (L. Agassiz, 1841)	Sastry (2007)
84	<i>Poriocidaris purpurata</i> (Thomson, 1872)	Synonym (Genus transfer) of <i>Histocidaris purpurata</i> (Thomson, 1872)	Döderlein (1906), Sastry (2007)
85	<i>Prionocidaris brevicollis</i> (de Meijere)	Synonym of <i>Stylocidaris brevicollis</i> (de Meijere, 1904)	Koehler (1927), James (1983b), Sastry (2005)
86	<i>Prionocidaris verticillata</i> (Lamarck, 1816)	Synonym of <i>Plococidaris verticillata</i> (Lamarck, 1816)	Clark HL (1925), James (1983b, 1989), Sastry (1997) in Sastry 2005, Sastry (2002, 2007), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan <i>et al.</i> (2013)
87	<i>Salenia sculpta</i> Koehler, 1927	Synonym of <i>Bathysalenia sculpta</i> (Koehler, 1927)	Koehler (1927), Sastry (2005, 2007)
88	<i>Salenocidaris miliaris</i> var. <i>Indica</i> Mortensen, 1939	Synonym of <i>Salenocidaris miliaris indica</i> Mortensen, 1939	Sastry (2007)
89	<i>Stomopneusts variolaris</i> (Lamarck, 1816)	Emendation of <i>Stomopneustes variolaris</i> (Lamarck, 1816)	Sadhukhan & Raghunathan (2011a, 2012a), Rao & Kumar (2014)
90	<i>Schizaster (Paraster) compactus</i> Koehler (1914) Original name is <i>Paraster compactus</i> (Koehler, 1914)	Synonym (transferred to <i>Schizaster</i> ) of <i>Schizaster compactus</i> (Koehler, 1914)	Sastry (2007)
<b>Class</b>	<b>Holothuroidea</b>		
91	<i>Acaudina iranica</i> (Heding)	Synonym of <i>Acaudina leucoprocta</i> (H.L. Clark, 1938)	James (1969)
92	<i>Actinocucumis typicus</i> Ludwig, 1875	Emendation of <i>Actinocucumis typica</i> Ludwig, 1875	Clark & Rowe (1971), James (1985), Mukhopadhyay (1988), Sastry (2007)
93	<i>Amphideima investigatoris</i> Koehler & Vaney, 1905	Synonym of <i>Orphnurgus glaber</i> Walsh, 1891	Koehler & Vaney (1905), Sastry (2005, 2007)
94	<i>Anapta dubiosa</i> Koehler & Vaney, 1905	Synonym of <i>Dactylapta dubiosa</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905)
95	<i>Ankyroderma brevicaudatum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia brevicaudata</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
96	<i>Ankyroderma contortum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia contorta</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)

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TABLE 4. (Continued)

No.	Species	Remarks	References
97	<i>Ankyroderma intermedium</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia concolor</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
98	<i>Ankyroderma musculus</i> var. <i>acutum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia acuta</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905)
99	<i>Ankyroderma musculus</i> var. <i>undulatum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia undulata</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905)
100	<i>Ankyroderma polymorphum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia polymorpha</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
101	<i>Bathyploetes assimilis</i> Koehler & Vaney, 1905	Synonym of <i>Bathyploetes natans</i> (M. Sars, 1868)	Koehler & Vaney (1905), Sastry (2007)
102	<i>Bathyploetes papillosus</i> Koehler & Vaney, 1905	Synonym of <i>Bathyploetes natans</i> (M. Sars, 1868)	Koehler & Vaney (1905), Sastry (2007)
103	<i>Benthodytes glutinosa</i> Perrier R., 1896	Synonym of <i>Benthodytes typica</i> Théel, 1882	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
104	<i>Benthophyces fragilis</i> Koehler & Vaney, 1905	Synonym of <i>Benthogone fragilis</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
105	<i>Benthothuria cristatus</i> Koehler & Vaney, 1905	Synonym of <i>Benthothuria cristata</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
106	<i>Benthothuria distortus</i>	Synonym of <i>Benthothuria distorta</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
107	<i>Bohadschia graeffei</i> (Semper, 1868)	Synonym of <i>Pearsonothuria graeffei</i> (Semper, 1868)	Sadhukhan & Raghunathan (2011a, 2012a), Sastry (2007), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
108	<i>Bohadschia tenuissima</i> (Semper, 1868)	Synonym of <i>Bohadschia vitiensis</i> (Semper, 1868)	Clark & Rowe (1971), Mukhopadhyay (1988), Sastry (2007), Kumar (2012)
109	<i>Chondrocloea beselli</i> Jäger Original name is <i>Synapta beselii</i> Jaeger, 1833	Synonym of <i>Synapta maculata</i> (Chamisso & Eysenhardt, 1821)	Koehler & Vaney (1908), Sastry (2007)
110	<i>Cladolabes acicula</i> (Semper, 1867)	Emendation of <i>Cladolabes aciculus</i> (Semper, 1867)	Clark & Rowe (1971), Sastry (2005, 2007)
111	<i>Cucumaria ardens</i> Koehler & Vaney, 1908	Synonym of <i>Havelockia ardens</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Sastry (2007)
112	<i>Cucumaria alcocki</i> Koehler & Vaney, 1908	Synonym of <i>Pseudocnus alcocki</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), James (1983b)
113	<i>Cucumaria ariana</i> Koehler & Vaney, 1908	Synonym of <i>Havelockia ariana</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Sastry (2007)
114	<i>Cucumaria forbesi</i> Bell, 1886	Synonym of <i>Aslia forbesi</i> (Bell, 1886)	Koehler & Vaney (1908)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
115	<i>Cucumaria frauenfeldi</i> Ludwig, 1882	Synonym of <i>Roweia frauenfeldi frauenfeldi</i> (Ludwig, 1882)	Mukhopadhyay (1988), Sastry (2007)
116	<i>Cucumaria turbinata</i> (Hutton, 1879)	taxon inquirendum	Mukhopadhyay (1988), Sastry (2007)
117	<i>Cucumaria inflexa</i> Koehler & Vaney, 1908	Synonym of <i>Mitsukuriella inflexa</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Sastry (2007)
118	<i>Deima blakei</i> Théel, 1886	Synonym of <i>Deima validum validum</i> Théel, 1879	Koehler & Vaney (1905), Sastry (2005, 2007)
119	<i>Deima validum</i> Théel, 1879	Alternate representation of <i>Deima validum validum</i> Théel, 1879	Soota <i>et al.</i> (1983), Sastry (2007)
120	<i>Euriplastes obscura</i> Koehler & Vaney, 1905	Synonym of <i>Eynpniastes eximia</i> Théel, 1882	Koehler & Vaney (1905), Sastry (2007), Soota <i>et al.</i> (1983)
121	<i>Euphronides bifurcata</i> Koehler & Vaney, 1905	Synonym of <i>Psychropotes verrucosa</i> (Ludwig, 1893)	Koehler & Vaney (1905)
122	<i>Filithuria elegans</i> Koehler & Vaney, 1905	Synonym of <i>Pseudostichopus elegans</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Soota <i>et al.</i> (1983), Sastry (2007)
123	<i>Holothuria (Mertensiothuria) fuscocinerea</i> Jaeger, 1833	It might be an alternate representation of <i>Holothuria (Stauropora) fuscocinerea</i> Jaeger, 1833	James (1995), Mukhopadhyay (1991), Sastry (2007)
124	<i>Holothuria (Metriatyla) ocellata</i> Jaeger, 1833	Original name is <i>Bohadschia ocellata</i> Jaeger, 1833 It might be an alternate name	Mukhopadyay (1988), Sastry (2007)
125	<i>Holothuria (Thymiosycia) hilla</i> Lesson 1830	It might be an alternate representation of <i>Holothuria (Mertensiothuria) hilla</i> Lesson, 1830	Clark & Rowe (1971), Sastry (2002, 2007), Soota <i>et al.</i> (1983), Mukhopadhyay & Samanta (1983), James (1989), Kandan (1994), Sastry <i>et al.</i> (2004), Rao & Sastry (2007)
126	<i>Holothuria arenicola</i> Semper, 1868	Alternate representation of <i>Holothuria (Thymiosycia) arenicola</i> Semper, 1868	James (1969, 1983b), Sadhukhan & Raghunathan (2012a), Kumar (2012), Rao & Kumar (2014)
127	<i>Holothuria atra</i> Jaeger, 1833	Alternate representation of <i>Holothuria (Halodeima) atra</i> Jaeger, 1833	Bell (1887), James (2001), Sadhukhan & Raghunathan (2011a, 2012a), Raghunathan & Venkataraman (2012), Kumar (2012), Venkataraman & Padmanaban (2013), Rao & Kumar (2014), Kumar & Geetha (2013)
128	<i>Holothuria cadelli</i> Bell, 1887	Alternate representation of <i>Holothuria (Theelothuria) cadelli</i> Bell, 1887	Bell (1887)
129	<i>Holothuria coluber</i> Semper, 1868	Alternate representation of <i>Holothuria (Acanthotrapeza) coluber</i> Semper, 1868	Sadhukhan & Raghunathan (2012a), Raghunathan <i>et al.</i> (2013), Rao & Kumar (2014)
130	<i>Holothuria difficilis</i> Semper, 1868	Alternate representation of <i>Holothuria (Platyperona) difficilis</i> Semper, 1868	Koehler & Vaney (1908), Kumar (2012)

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TABLE 4. (Continued)

No.	Species	Remarks	References
131	<i>Holothuria edulis</i> Lesson, 1830	It might be an alternate representation of <i>Holothuria (Halodeima) edulis</i> Lesson, 1830	James, (2001), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Kumar & Geetha (2013), Rao & Kumar (2014)
132	<i>Holothuria exilis</i> Koehler & Vaney, 1908 Alternate Representation of <i>Holothuria (Stauropora) exilis</i> Koehler & Vaney, 1908	Nomen dubium	Koehler & Vaney (1908), James (1983b), Soota <i>et al.</i> (1983), Sastry (2005, 2007)
133	<i>Holothuria fuscogilva</i> Cherbonnier, 1980	Alternate representation of <i>Holothuria (Microthele) fuscogilva</i> Cherbonnier, 1980	James (2001)
134	<i>Holothuria glaberrima</i> Risso, 1826	Nomen dubium	Koehler & Vaney (1904)
135	<i>Holothuria hilla</i> Lesson, 1830 It might be <i>Holothuria (Fistulatia) hilla</i> Lesson, 1830	Synonym of <i>Holothuria (Mertensiothuria) hilla</i> Lesson, 1830	James (1969, 1983b, 2001), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012)
136	<i>Holothuria impatiens</i> (Forskål, 1775)	Alternate representation of <i>Holothuria (Thymiosycia) impatiens</i> (Forskål, 1775)	Bell (1887), Koehler & Vaney (1908), James (1969, 1983b, 2001), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Rao & Kumar (2014)
137	<i>Holothuria leucospilota</i> (Brandt, 1835)	It might be an alternate representation of <i>Holothuria (Mertensiothuria) leucospilota</i> (Brandt, 1835)	James (1969, 2001), Raghunathan & Venkataraman (2012), Sadhukhan & Raghunathan (2012a), Kumar (2012), Kumar & Geetha (2013), Rao & Kumar (2014)
138	<i>Holothuria lineate</i> Ludwig, 1875	Alternate representation of <i>Holothuria (Lessonothuria) lineata</i> Ludwig, 1875	Bell (1887)
139	<i>Holothuria lubrica</i> Selenka.	Alternate representation of <i>Holothuria (Selenkothuria) lubrica</i> Selenka, 1867	Koehler & Vaney (1908)
140	<i>Holothuria maculata</i> Brandt.	It might be <i>Holothuria (Microthele) maculata</i> Brandt, 1835 unaccepted	Bell (1887), Koehler & Vaney (1908)
141	<i>Holothuria marmorata</i> Saville-Kent, 1893	Nomen dubium	Clark & Rowe (1971), Satyamurti (1976)
142	<i>Holothuria moebii</i> Ludwig, 1883	Alternate representation of <i>Holothuria (Selenkothuria) moebii</i> Ludwig, 1883	James (1983b), Kumar (2012)
143	<i>Holothuria nobilis</i> (Selenka, 1867)	It might be an alternate representation of <i>Holothuria (Microthele) nobilis</i> (Selenka, 1867)	James (2001), Sadhukhan & Raghunathan (2012a) Kumar (2012), Rao & Kumar (2014)
144	<i>Holothuria ocellata</i> (Jaeger, 1833) This might be <i>Holothuria (Holothuria) ocellata</i> Jaeger, 1833	Synonym of <i>Bohadschia ocellata</i> Jaeger, 1833	Gopalakrishnan (1969), Kumar (2012)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
145	<i>Holothuria pervicax</i> Selenka, 1867	Alternate representation of <i>Holothuria (Stauropora) pervicax</i> Selenka, 1867	James (1983b, 2001), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Rao & Kumar (2014)
146	<i>Holothuria prompta</i> Koehler & Vaney, 1908	Synonym of <i>Holothuria (Stauropora) modesta</i> Ludwig, 1875	Koehler & Vaney (1908), Clark & Rowe (1971), James (1983b), Sastry (2007)
147	<i>Holothuria remollescens</i> Lampert, 1885	Alternate representation of <i>Holothuria (Thymiosycia) remollescens</i> Lampert, 1885	Koehler & Vaney (1908), James (1983b)
148	<i>Holothuria scabra</i> Jaeger, 1833	It might be an alternate representation of <i>Holothuria (Metriatyta) scabra</i> Jaeger, 1833	Koehler & Vaney (1908), James (1983b, 2001), Sadhukhan & Raghunathan (2011a, 2012a), Kumar (2012), Rao & Kumar (2014)
149	<i>Leptopentacta typica</i> (Theel)	Synonym of <i>Leptopentacta imbricata</i> (Semper, 1867)	James (1969)
150	<i>Ocnus javanicus</i> Sluiter, 1880	Synonym of <i>Leptopentacta imbricata</i> (Semper, 1867)	Kumar (2012)
151	<i>Oneiriphanta conservata</i> Koehler & Vaney, 1905	Emendation of <i>Oneirophanta conservata</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
152	<i>Orphnurgus invalidus</i> Koehler & Vaney, 1905 Emendation of <i>Orphnurgus invalidus</i> Koehler & Vaney, 1905	Synonym of <i>Orphnurgus glaber</i> Walsh, 1891	Koehler & Vaney (1905)
153	<i>Pelopatides dissidens</i> Koehler & Vaney, 1910	Synonym of <i>Pelopatides dissidens</i> Koehler & Vaney, 1910	Soota <i>et al.</i> (1983), Sastry (2007)
154	<i>Pelopatides gelatinosus</i> (Walsh, 1891)	Emendation of <i>Pelopatides gelatinosus</i> (Walsh, 1891)	Koehler & Vaney (1905), Sastry (2007)
155	<i>Pelopatides insignis</i> Koehler & Vaney, 1905	Emendation of <i>Pelopatides insignis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
156	<i>Pelopatides modestus</i> Koehler & Vaney, 1905	Emendation of <i>Pelopatides modestus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
157	<i>Pelopatides mammillatus</i> Koehler & Vaney, 1905	Emendation of <i>Pelopatides mammillatus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
158	<i>Pelopatides mollis</i> Koehler & Vaney, 1905	Emendation of <i>Pelopatides mollis</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
159	<i>Pelopatides ovalis</i> (Walsh, 1891)	Emendation of <i>Pelopatides ovalis</i> (Walsh, 1891)	Koehler & Vaney (1905), James (1983b), Sastry (2007)
160	<i>Pelopatides verrucosus</i> Koehler & Vaney, 1905	Emendation of <i>Pelopatides verrucosus</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
161	<i>Peniagone stabilis</i> Koehler & Vaney, 1905	<i>Peniagone</i> unidentifiable Synonym of <i>Psychroplanes rigida</i> (Théel, 1882)	Koehler & Vaney (1905)

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TABLE 4. (Continued)

No.	Species	Remarks	References
162	<i>Peniagone expansa</i> Koehler & Vaney, 1905	Synonym of <i>Psychroplanes rigida</i> (Théel, 1882)	Koehler & Vaney (1905)
163	<i>Peniagne obscura</i> Koehler & Vaney, 1905	Nomen dubium	Koehler & Vaney (1905)
164	<i>Pentacta quadrangularis</i> (Lesson) Original name is <i>Holothuria (Holothuria) quadrangularis</i> Lesson, 1830	taxon inquirendum	Satyamurti (1976)
165	<i>Phyllophorus (Phyllophorella) spiculata</i> Chang, 1935	Alternate representation of <i>Phyllophorella spiculata</i> (Chang, 1935)	Sastry (2007), Kumar (2012)
166	<i>Phyllophorus celer</i> Koehler & Vaney, 1908	Synonym of <i>Phyllophorus (Phyllothuria) celer</i> Koehler & Vaney, 1908	Koehler & Vaney (1908), Sastry (2002, 2007)
167	<i>Phyllophorus intermedius</i> Koehler & Vaney, 1908	Synonym of <i>Neothyonidium intermedium</i> (Koehler & Vaney, 1908)	Koehler & Vaney (1908), Mukhopadhyaya & Samanta (1983), Sastry (2007)
168	<i>Plesiocolochirus armatus</i> (Marenzeller von, 1881)	Emendation of <i>Plesiocolochirus armatus</i> (Marenzeller von, 1881)	Kumar (2012)
169	<i>Protankyra innominata</i> Ludwig It might be <i>Synapta innominata</i> Ludwig, 1875	Synonym of <i>Protankyra pseudodigitata</i> (Semper, 1867)	Sastry (2007), Koehler & Vaney (1908), James (1969, 1983b), Soota <i>et al.</i> (1983)
170	<i>Protankyra timida</i> Koehler & Vaney, 1905	Synonym of <i>Rynkatorpa timida</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), James (1983b), Sastry (2007)
171	<i>Pseudostichopus occultatus</i> var. <i>plicatus</i> Koehler & Vaney, 1905	Synonym of <i>Pseudostichopus peripatus</i> (Sluiter, 1901)	Koehler & Vaney (1905)
172	<i>Psolidium complanatum</i> Cherbonnier, 1969	<i>Psolidium complanatum</i> (Semper, 1867) Author misnomer	Kumar (2012)
173	<i>Psychropotes minutus</i> Koehler & Vaney, 1905	Synonym of <i>Psychropotes minuta</i> Koehler & Vaney, 1905	Koehler & Vaney (1905), Sastry (2007)
174	<i>Stichopus japonicus</i> Selenka, 1867	Synonym of <i>Apostichopus japonicus</i> (Selenka, 1867)	James (1969)
175	<i>Stichopus variegates</i> Semper, 1868	Synonym of <i>Stichopus horrens</i> Selenka, 1867	Bell (1887), Koehler & Vaney (1908), James (1969), Clark & Rowe (1971), Mukhopadhyay (1991), Sastry (2002), Sastry <i>et al.</i> (2004), Sadhukhan & Raghunathan (2011a, 2012a) Rao & Kumar (2014)
176	<i>Synallactes wood-masoni</i> Walsh, 1891 Original name is <i>Pannychia wood-masoni</i> Walsh, 1891	Synonym of <i>Amphigymnas woodmasoni</i> (Walsh, 1891)	Koehler & Vaney (1905), Sastry (2007), Soota <i>et al.</i> (1983)
177	<i>Synallactes pellucidus</i> Koehler & Vaney, 1906	Synonym of <i>Bathyplores pellucidus</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
178	<i>Synaptula striata</i> (Sluiter, 1887)	Synonym of <i>Synaptula recta</i> (Semper, 1867)	Clark & Rowe (1971), Sastry (2002, 2005, 2007), Kumar (2012)
179	<i>Thyone herdmani</i> (Pearson)	Synonym of <i>Havelockia versicolor</i> (Semper, 1867)	James (1969)

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TABLE 4. (Continued)

No.	Species	Remarks	References
180	<i>Trachythione alcocki</i> (Koehler & Vaney) Original name is <i>Cucumaria alcocki</i> Koehler & Vaney, 1908	Synonym of <i>Pseudocnus alcocki</i> (Koehler & Vaney, 1908)	Soota <i>et al.</i> (1983), James (1983b), Sastry (2007)
181	<i>Trochostoma albicans</i> Théel, 1886	Synonym of <i>Hedingia albicans</i> (Théel, 1886) Deichmann, 1938	Koehler & Vaney (1905), Sastry (2007)
182	<i>Trochostoma andamanense</i> Walsh, 1891	Synonym of <i>Molpadia andamanensis</i> (Walsh, 1891)	Walsh (1891) in Sastry 2007, Koehler & Vaney (1905), James (1983b), Soota <i>et al.</i> (1983), Sastry (2007)
183	<i>Trochostoma concolor</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia concolor</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905)
184	<i>Trochostoma ecalcareum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia ecalcareum</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
185	<i>Trochostoma elongatum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia elongata</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), James (1983b), Sastry (2007)
186	<i>Trochostoma granulatum</i> Ludwig, 1893	Synonym of <i>Molpadia granulata</i> (Ludwig, 1893)	Koehler & Vaney (1905)
187	<i>Trochostoma pauperum</i> Koehler & Vaney, 1905	Synonym of <i>Molpadia paupera</i> (Koehler & Vaney, 1905)	Koehler & Vaney (1905), Sastry (2007)
<b>Class</b>	<b>Ophiuroidea</b>		
188	<i>Amphiodia caulleryi</i> (Koehler, 1897)	Synonym of <i>Amphioplus (Unioplus) caulleryi</i> (Koehler, 1897)	Koehler (1897), Sastry (2007)
189	<i>Amphiophiura (Dictenophiura) stellata</i> (Studer)	Synonym of <i>Ophiura (Dictenophiura) stellata</i> (Studer, 1882)	Sastry (2005, 2007)
190	<i>Amphioplus intermedius</i> (Koehler, 1905)	Alternate representation of <i>Amphioplus (Amphioplus) intermedius</i> (Koehler, 1905)	James (1983b), Sastry (2005, 2007)
191	<i>Amphiura dispar</i> Koehler, 1897	Synonym of <i>Amphioplus dispar</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
192	<i>Amphiura famula</i> Koehler, 1910	Synonym of <i>Amphioplus famula</i> (Koehler, 1910)	Koehler (1910) in Sastry 2007
193	<i>Amphiura lorioli</i> (Koehler, 1897)	Alternate representation of <i>Amphiura (Amphiura) lorioli</i> (Koehler, 1897)	Koehler (1897), Sastry (2007)
194	<i>Asteromorpha flosculus</i> (Alcock)	Misnomer Original name is <i>Asteroschema flosculus</i> Alcock, 1893	Sastry (2002, 2005, 2007)
195	<i>Dictenophiura stellata</i> (Studer, 1882)	Synonym of <i>Ophiura (Dictenophiura) stellata</i> (Studer, 1882)	Clark & Rowe (1971)
196	<i>Gymnopelta indica</i> Koehler	Misnomer of <i>Ophioconis indica</i> Koehler, 1897	Koehler (1922), Sastry (2002, 2005, 2007)

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TABLE 4. (Continued)

No.	Species	Remarks	References
197	<i>Macrophiothrix propingua</i> (Linnaeus)	It might be an emendation of <i>Macrophiothrix propinqua</i> (Lyman, 1861) as well as author misnomer	Sastry (1997)
198	<i>Ophiacantha abnormis</i> Lyman, 1879	Synonym of <i>Ophiotreta stimulea</i> (Lyman, 1878)	Sastry (2005, 2007)
199	<i>Ophiacantha gratiosa</i> Koehler, 1897	Synonym of <i>Ophiotreta stimulea</i> (Lyman, 1878)	Koehler (1897, 1899), James (1983b)
200	<i>Ophiacantha vestita</i> Koehler, 1897	Synonym of <i>Ophiopristis vestita</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
201	<i>Ophiactis acosmeta</i> H.L. Clark, 1938	Synonym of <i>Ophiactis macrolepidota</i> Marktanner-Turneretscher, 1887	Sastry (2007)
202	<i>Ophiactis flexuosa</i> var. <i>Perplexa</i> Koehler	Misnomer Original name is <i>Ophiactis perplexa</i> Koehler, 1897	Sastry (2007)
203	<i>Ophiactis maculosa</i> von Martens, 1870	Synonym of <i>Ophiactis savignyi</i> (Müller & Troschel, 1842)	Sastry (2007)
204	<i>Ophiarachnella megaloplax</i> Bell Original name is <i>Pectinura megaloplax</i> Bell, 1884	Synonym of <i>Ophiarachnella gorgonia</i> (Müller & Troschel, 1842)	Sastry (2007)
205	<i>Ophiocamax rugosa</i> Koehler, 1904	Synonym of <i>Ophiocamax vitrea</i> Lyman, 1878	Sastry (2005, 2007)
206	<i>Ophiocentrus dilatatus</i> (Koehler, 1905)	Synonym of <i>Ophiocentrus dilatata</i> (Koehler, 1905)	Sastry (2002, 2005, 2007)
207	<i>Ophiochiton modestus</i> Koehler, 1897	Synonym of <i>Amphioplus modestus</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
208	<i>Ophiocoma brevipes</i> Peters, 1851	Alternate representation of <i>Ophiocoma (Breviturma) brevipes</i> Peters, 1851	Clark & Rowe (1971), James (1969, 1982, 1983b), Sastry (2002, 2005, 2007), Raghunathan & Venkataraman (2012), Rao & Kumar (2014)
209	<i>Ophiocoma dentata</i> Müller & Troschel, 1842	Synonym of <i>Ophiocoma (Breviturma) dentata</i> Müller & Troschel, 1842	James (1983b), Sastry (2002, 2005), Sadhukhan & Raghunathan (2011a, 2012a)
210	<i>Ophiocoma doederleini</i> de Loriol, 1899	Alternate representation of <i>Ophiocoma (Breviturma) doederleini</i> de Loriol, 1899	Sastry (2002, 2005, 2007), Sastry <i>et al.</i> (2004)
211	<i>Ophiocoma lubrica</i> Koehler, 1898	Synonym of <i>Ophiocoma scolopendrina</i> (Lamarck, 1816)	Koehler (1898) in Sastry 2007
212	<i>Ophiocormus compsus</i> A.M. Clark, 1968 The original name is <i>Ophiostegastus compsus</i> A.M. Clark, 1968	Synonym of <i>Ophiodyscrita acosmeta</i> H.L. Clark, 1938	Sastry (2004, 2007)
213	<i>Ophioelegans cincta</i> (Müller & Troschel, 1842)	Synonym of <i>Ophiolepis cincta cincta</i> Müller & Troschel, 1842	Clark & Rowe (1971), Sastry (2002, 2005, 2007)
214	<i>Ophioglypha radiata</i> Lyman, 1878	Synonym of <i>Amphiophiura radiata</i> (Lyman, 1878)	Koehler (1897, 1899)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
215	<i>Ophioglypha stellata</i> Studer, 1882	Synonym of <i>Ophiura</i> ( <i>Dictenophiura</i> ) <i>stellata</i> (Studer, 1882)	Koehler (1898) in Sastry 2007
216	<i>Ophiomitra rudis</i> Koehler, 1897	Synonym of <i>Ophioplinthaca rudis</i> (Koehler, 1897)	Koehle (1899), Sastry (2007)
217	<i>Ophiomusium elegans</i> Koehler, 1897	Synonym of <i>Ophiosphalma elegans</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2005, 2007)
218	<i>Ophiomusium fimbriatum</i> Koehler, 1922	Synonym of <i>Ophiosphalma fimbriatum</i> (Koehler, 1922)	Sastry (2007)
219	<i>Ophionereis dubia</i> (Müller & Troschel, 1842)	Alternate representation of <i>Ophionereis dubia dubia</i> (Müller & Troschel, 1842)	Clark & Rowe (1971), Sastry (2005, 2007)
220	<i>Ophiopeza custos</i> Koehler, 1897	Synonym of <i>Ophioplax custos</i> (Koehler, 1897)	Koehler (1897, 1899), James (1983b), Sastry (2002, 2005, 2007)
221	<i>Ophiosphalma planum</i> (Lyman, 1878)	Synonym of <i>Ophiosphalma armigerum</i> (Lyman, 1878)	Koehler (1897), Sastry (2007)
222	<i>Ophiostigma formosa</i> Lütken, 1872	Synonym of <i>Dougaloplus echinatus</i> (Ljungman, 1867)	Koehler (1899) in Sastry 2007
223	<i>Ophioleptus nodosa</i> Duncan, 1887	Misnomer of <i>Ophiolepis nodosa</i> Duncan, 1887	James (1983b), Sastry (2005, 2007)
224	<i>Ophiothrix nereidina</i> (Lamarck, 1816)	Synonym of <i>Macrophiothrix nereidina</i> (Lamarck, 1816)	Bell (1888), Raghunathan & Venkataraman (2012)
225	<i>Ophiothrix stelligera</i> Lyman	Synonym of <i>Ophiothrix ciliaris</i> (Lamarck, 1816)	Koehler (1898) in Sastry 2005, James (1983b)
226	<i>Ophiothrix</i> ( <i>Keystonea</i> ) <i>nereidina</i> (Lamarck)	Synonym of <i>Macrophiothrix nereidina</i> (Lamarck, 1816)	Clark & Rowe (1971), James (1989), Sastry (1999) in Sastry 2005, Sastry (1997, 2002, 2005, 2007)
227	<i>Ophiothrix</i> ( <i>Ophiothrix</i> ) <i>variegata</i> Duncan, 1887	Misnomer of <i>Ophiothrix variegata</i> Duncan, 1887	Sastry (2007)
228	<i>Ophiothrix</i> ( <i>Placophiothrix</i> ) <i>fumaria</i> Müller & Troschel, 1840	Misnomer of <i>Ophiothrix fumaria</i> Müller & Troschel, 1840	Sastry (2007)
229	<i>Ophiothrix</i> ( <i>Placophiothrix</i> ) <i>striolata</i> Grube, 1868	Synonym of <i>Macrophiothrix striolata</i> (Grube, 1868)	Koehler (1898) in Sastry 2007
230	<i>Ophiothrix accedens</i> Koehler, 1930	Alternate representation of <i>Ophiothrix</i> ( <i>Ophiothrix</i> ) <i>accedens</i> Koehler, 1930	James (1969, 1985), Sastry (2007)
231	<i>Ophiothrix diligens</i> Koehler, 1898	Alternate representation of <i>Ophiothrix</i> ( <i>Acanthophiothrix</i> ) <i>diligens</i> Koehler, 1898	James (1983b)
232	<i>Ophiothrix savignyi</i> (Müller & Troschel, 1842)	Alternate representation of <i>Ophiothrix</i> ( <i>Ophiothrix</i> ) <i>savignyi</i> (Müller & Troschel, 1842)	Sadhukhan <i>et al.</i> (2012)
233	<i>Ophiothrix trilineata</i> Lütken, 1869	Alternate representation of <i>Ophiothrix</i> ( <i>Ophiothrix</i> ) <i>trilineata</i> Lütken, 1869	Koehler (1898) in Sastry 2005, James (1983b), Sastry (2001)

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**TABLE 4.** (Continued)

No.	Species	Remarks	References
234	<i>Ophiothrix vitrea</i> Döderlein, 1896	Alternate representation of Koehler (1898) in Sastry 2005, James <i>Ophiothrix</i> ( <i>Ophiothrix</i> ) (1983b) <i>vitrea</i> Döderlein, 1896	
235	<i>Ophiura forbesi</i> Duncan Original name is <i>Ophioglypha forbesi</i> Duncan, 1879	Synonym of <i>Aspidophiura forbesi</i> (Duncan, 1879)	James (1983b), Sastry (2005, 2007)
236	<i>Ophiura irrorata</i> (Lyman, 1878)	Alternate representation of <i>Ophiura</i> ( <i>Ophiuroglypha</i> ) <i>irrorata irrorata</i> (Lyman, 1878)	Sastry (2007)

**TABLE 5.** List of omitted echinoderm species.

Sl.No.	Omitted species names	References	Reasons
	<b>Asteroidea</b>		
1	<i>Brisinga panopla</i> Fisher, 1906	Koehler (1909)	Mentioned Lat. 06° 57' N; Long. 79° 33' E falls in Sri Lankan territory
2	<i>Brisinga parallela</i> Koehler, 1909	Koehler (1909), Sastry (2007)	Reported Lat. 6° 57' N; Long. 79° 33' E falls in Sri Lanka
3	<i>Ceramaster mortenseni</i> (Koehler, 1909)	Koehler (1909), Sastry (2007)	Reported Lat. 13° 29' N; Long. 95° 29' E falls off middle Andaman
4	<i>Astropecten</i> sp.	Karuppaiyan (2007)	Reported only genus level
	<b>Crinoidea</b>		
5	<i>Decametrocrinus</i> sp.	Sastry (2007)	Reported only genus level
	<b>Echinoidea</b>		
6	<i>Brisaster indicus</i> Koehler, 1914	Koehler (1914)	Not accepted by WoRMS (editor Kroh, Andreas) based on juvenile specimens
7	<i>Clypeaster</i> sp.1.	Karuppaiyan (2007)	Reported only genus level
8	<i>Clypeaster</i> sp.2.	Karuppaiyan (2007)	Reported only genus level
	<b>Holothuroidea</b>		
9	<i>Bohadschia</i> sp.	James (2001)	Reported only genus level
10	<i>Cucumaria</i> sp.	Sastry (2007)	Reported only genus level
11	<i>Phyllophorus</i> ( <i>Phyllophorella</i> ) sp.	Sastry (2007)	Reported only genus level
12	<i>Protankyra</i> sp.	Sastry (2007)	Reported only genus level
	<b>Ophiuroidea</b>		
13	<i>Ophiocreas</i> sp. Koehler.	Koehler (1899)	Reported only generic level and this genus already included in the accepted list
14	<i>Trichaster acanthifer</i> Döderlein, 1927	Sastry (2002)	Mentioned Lat. 13° 47' 30" N; Long. 98° 15' 30" E not fall in Indian territory
15	<i>Ophiothrix</i> sp.	Sastry (2007)	Reported only genus level
16	<i>Dougaloplus</i> sp.	Karuppaiyan (2007)	Reported only genus level
17	<i>Asteronyx</i> sp.	Karuppaiyan (2007)	Reported only genus level

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**TABLE 5.** (Continued)

Sl.No.	Omitted species names	References	Reasons
18	<i>Ophiothela venusta</i> (de Loriol, 1900)	Sadhukhan & Raghunathan (2011b)	Expert Dr. Sabine stöhr reviewed this publication and disproved it as <i>Ophiocoma</i> sp. based on the reported key character 1 tentacle scale which conflicts with the images clearly show 2 and does not fit with <i>Ophiothela</i>
19	<i>Dougaloplus echinatus</i> (Ljungman, 1867)	Sadhukhan & Raghunathan (2011b)	Dr. Sabine stöhr commented that this species probably of juvenile <i>Ophiocoma</i> sp. that still lacks disc granules and Tooth papillae are interpreted as infradental papillae
20	<i>Ophiopterion vitiensis</i> (Koehler, 1927)	Sadhukhan <i>et al.</i> (2012)	Dr. Sabine stöhr reviewed this as <i>Ophiothela</i> sp.
21	<i>Ophionereis degeneri</i> (A.H. Clark, 1949)	Sadhukhan <i>et al.</i> (2012)	Dr. Sabine stöhr reviewed this as <i>Ophiocoma</i> sp.
22	<i>Ophiothrix savignyi</i> (Muller and Troschel, 1842)	Sadhukhan <i>et al.</i> (2012)	Dr. Sabine stöhr reviewed this as <i>Ophiothela</i> cf. <i>danae</i>
23	<i>Ophiothrix (Theophrix) pusilla</i> (Lyman, 1874)	Sadhukhan <i>et al.</i> (2012)	Dr. Sabine stöhr reviewed this as <i>Ophiothela</i> cf. <i>danae</i>
24	<i>Heterometra crenulata</i> (P.H.Carpenter, 1882)	Sadhukhan & Raghunathan (2012b)	Dr. Charles Messing reviewed this paper and suggested based on image that it is likely to be <i>Himerometra robustipinna</i> (Carpenter, 1881)
25	<i>Amphimetra mollerii</i> (A. H. Clark, 1908)	Sadhukhan & Raghunathan (2012b)	Dr. Charles Messing commented that this is not any species of <i>Amphimetra</i> by setting the point <i>Amphimetra</i> species have only ten arms (rarely 11 or 12) but specimen in the figure appears to have over 20 arms (with at least 7 on one ray) including division series of four ossicles.
26	<i>Cenometra bella</i> (Hartlaub, 1890)	Sadhukhan & Raghunathan (2012b)	Dr. Charles Messing commented that this is most likely <i>Phanogenia typica</i> by setting the point lack of characteristic rounded processes on the sides of the division series ossicles, and the paired aboral tubercles on the cirri for <i>Cenometra bella</i>
27	<i>Comanthus alternans</i> (P. H. Carpenter, 1881) a synonym of <i>Clarkcomanthus alternans</i> (Carpenter, 1881)	Sadhukhan & Raghunathan (2012b)	Dr. Charles Messing commented that this is most likely <i>Phanogenia typica</i> based on the ossicles have typical concave sides, the division series beyond the second tend to give rise to an undivided arm and another division series in alternating fashion, and the habitat described is that of <i>P. typica</i> . <i>Clarkcomanthus alternans</i> generally sits completely exposed

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**TABLE 5.** (Continued)

Sl.No.	Omitted species names	References	Reasons
28	<i>Petasometra clarae</i> (Hartlaub, 1890)	Nigam <i>et al.</i> (2016)	Dr. Charles Messing commented that this appears from the images most likely <i>Cenometra bella</i> . The authors state that “The outer borders of the division series are smooth, without lateral processes.” However, lateral processes characteristic of <i>C. bella</i> are clearly visible in figure 2e.
29	<i>Ophiura</i> sp.	Stöhr <i>et al.</i> (2012)	Reported only genus level

The names of echinoid *Caenopedina depressa* Koehler, 1927, sea cucumbers *Holothuria (Stauropora) exilis* Koehler & Vaney, 1908, *Holothuria glaberrima* Risso, 1826, *Holothuria marmorata* Saville-Kent, 1893 and *Peniagne obscura* Koehler & Vaney, 1905 are *nomina dubia*. *Nomina dubia* are more problematic than synonyms and they should be either removed from the checklists or labelled explicitly so as to alert the non-taxonomic users of the checklists (Dayrat 2011).

Two species, *Pentacta quadrangularis* (Lesson) reported by Satyamurti (1976) and *Cucumaria turbinata* (Hutton, 1879) reported by Mukhopadhyay (1988) and Sastry (2007) are taxon inquirendum. Likewise, *Dictyaster wood-masoni* (Asteroidea) is an undescribed species placed under *nomen nudum* status (a non-available name). There has been a steep increase in collection and documentation of samples from voyages and research world over. A ‘taxonomic increase’ could be attributed to (i) genuine increase in knowledge because of discovery of new species or obtaining data on the known species or (ii) an artificial increase in species number due to debates in adopted methodology, disagreements or problems among taxonomists (Padial & Riva 2006). Another reason for taxonomic inflation arises from the fact that subspecies are raised to species as a result, a change in species concept rather than new discoveries occur (Nick *et al.* 2004).-

Some of the species description from India have not been revised or revisited since their original description and only changes in generic names, as reported globally, have been applied to them, thus rendering the status of such species as uncertain. The current work points out taxonomic inflation attributed primarily by synonymies, emendations and alternative representation and, provides a revised checklist updated till February 2017. An accurate checklist aids in appropriate resource allocation for conservation of the biodiversity though taxonomy has many other functions besides biodiversity conservation. Illustrating the case with diversity of echinoderms in India, the current study calls for periodic taxonomic updates and development of a national repository of chronologically updated species list for all taxa.

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