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The hard corals (Scleractinia) of India: a revised checklist

Kalyan De[1,2], Krishnamoorthy Venkataraman[3], Baban Ingole[1,4*]
[1]CSIR-National Institute of Oceanography, Goa, India.
[2]Department of Marine Sciences, Goa University, Goa, India.
[3] National Centre for Sustainable Coastal Management, Chennai, Tamil Nadu, India.
[4] National Centre for Polar and Ocean Research, Vasco Da Gama, Goa, India. (present address)
[*]Corresponding author: baban.ingole@gmail.com

Abstract:

Globally, coral reefs are in danger due to human activities and climate change. Likewise, coral reefs in India suffering acute stress and some coral species are on the verge of local extinction. Here, we present a revised checklist of scleractinian from the major Indian reefs, namely Gulf of Kachchh (GoK), Lakshadweep Islands(LKD), Gulf of Mannar Marine Biosphere Reserve (GoMBR), Andaman and NicobarIslands (A&N), representing a total of 589 species of 108 genera and 22 families. Maximum species diversity is recorded in Andaman and Nicobar Islands (526 species of 92 genera belonging to 22 families),followed by in theLakshadweep Islands(167 species of 56 genera and 18 families),Gulf of Mannar Marine Biosphere Reserve(168 species belonging to 47 genera and 16 families)and Gulf of Kachchh(78 species of 30 genera and 12 families). Apart from these reefs, we also enlisted scleractinian fromsmall reefs across theWest coast of India, namely the Malvan Marine Sanctuary, Angria bank, Grande Island, and Netrani Island.

Keywords: Coral reef, India, Taxonomy, Biodiversity, Conservation.

Introduction:

Coral reefs are incredibly diverse, valuable ecosystems and millions of people depend on the coral reef for their livelihood and food security[1].Nevertheless, these are facing a bleak future worldwide due to unprecedented climate change and rapid coastal development[1,2,3].Coral reefs are distributed on the East coast (Bay of Bengal) and the West coast (Arabian Sea). Being less than one percent,i.e.,2383.87 sq km of the total reef formation of the world[4,5], coral reefs in the Indian water is highly crucial in respect of ecosystem service and economy. These reefsvary from a small patch reef in the Eastern Arabian Sea to extensive barrier reefs in the Andaman Sea, and shallow water fringing reefs to deep water corals. Some of the Indian reefs show unique phenomena of elasticity and resilience. Gulf of Kachchh (GoK) shows unique resistance to some extreme climatic conditions like high SST and sedimentation.

On the other hand, reefs in Lakshadweep and Andaman Islands are some of the near-pristine reefs due to remoteness and less human perturbation. Moreover, most reefs are also subjected to ongoing climate change and elevated SST since the last decaderesulted in several bleaching events in all the reefs in India[6]. Some of them severely degraded,significantly lost species richness, and structural reef complexity. Most of the coral species representing Indian reefs belong to the widespread Indo-pacific species group.However, some are endemic to Indian water[5], viz.*Montipora jonesi* Pillai 1969; *Montipora manauliensis* Pillai 1969; *Porites exserta* Pillai 1969; *Porites mannarensis* Pillai 1969; *Porites minicoiensis* Pillai, 1969; *Alveopora superficialis* Pillai and Scheer, 1976; and *Favites monticularis* Mondal, Raghunathan and Venkataraman 2013 and*Ctenactis triangularis* Mondal and Raghunathan,2013 (taxon inquirendum). Reefs in theAndaman and Nicobar Islands (A&N) are biologically diverse due to its geographic proximity and connectivity to the Indo-Pacific coral triangle[5].

Taxonomical studies on coral in India are dated back to 1847 by Rink from the Nicobar Islands[5]. After a prolonged gap, Pillai (1967) conducted an extensive study on the coral fauna of the Gulf of Mannar and the Lakshadweep, and he listed a total of 125 species of corals of 34 genera and one subgenus[7]. In a series of publications, Pillai demonstrated and documented species richness and coral community structure in the Gulf of Mannar, the Lakshadweep islands and the Andaman and Nicobar Islands[7-22]. A comprehensive account of the coral fauna by Pillai (1987) included 155 species of hermatypic corals belonging to 50 genera and 44 species and ahermatypic corals distributed among 21 genera constitute 135 species of 59 genera from the A&N Islands, 78 species of corals belonging to 31 genera from the Lakshadweep, 94 species allocated among 37 genera from the Southeast coast of India and 37 species belonging to 24 genera from the GoK[22].After the pioneering work of Pillai,

the Zoological Survey of India (ZSI)has initiated the coral reef research and has documented the hidden biodiversity in different coral reefs in Indian water, especially from the Andaman and Nicobar Islands. The effort of ZSI has yielded several new records of Scleractinans from Indian water. Venkataraman et al. (2003) documented 208 species of Scleractinans belonging to 60 genera and 15 families from India, of which 177 species were from A&N,91 species from Lakshadweep, 82 species from GoMBR, and 36 were from GoK. Subsequently, Turner et al. (2009) reported 234 species of scleractinian coral from the Andaman and Nicobar Islands with several new reports for the first time from the Andman Islands as well as from India. A considerable effort by various researchers has significantly increased the total species number of scleractinian in the Indian reefs for the last two decades, and most of the species are reported in the Andaman and Nicobar Islands.

Methods

The objective of the present article is todocument the diversity of Scleractinian faunasin Indian reefs and to present an updated checklist.In the present study, we referred to the latest taxonomic nomenclature presented in the *World List of Scleractinia*,accessed through the World Register of Marine Species (WoRMS) database (http://www.marinespecies.org[23])to update the taxonomic status. The species distribution range of the reported species was confirmed using "Coral of the World"(accessed through http://coralsoftheworld.org[24]).The species list compiled and curated here is based on the extensive literature search and data mining of all the available published literature (scientific reports, journal articles, thesis) on scleractinian coral diversity from Indian reefs using online database, includes Web of Science, Google Scholar, digital archives of Zoological Survey of India (ZSI) and Central Marine Fisheries Research Institute (CMFRI). Based on the occurrence of scleractinian species in different Indian reefs, a reef-wise species list was prepared to show the diversity of each reef. Additionally, we provided an annotated list of species that wereerroneously reportedby theprevious studies.Besides the species distribution list, we compared the unique and cosmopolitan scleractinian species distribution across the GoK, LKD, GoMBR, and A&N Islands using Venny 2.1[27](Figure no. 2).

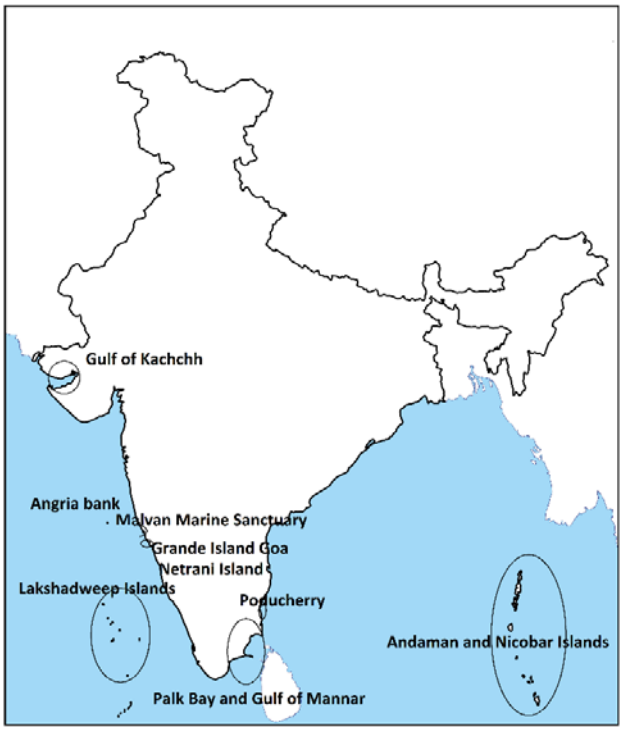

Figure 1: Distribution of major coral reefs of India.

Result

The present checklistconsists of a total of 589species belonging to 108 genera and 22 familiesof scleractinian fauna. Maximum species diversity is recorded in the Andaman and Nicobar Islands 525 species of 92 genera and 22 families followed by Lakshadweep Islands 167 species of 56 genera and 18 families, Gulf of Mannar Biosphere reserve 168species of 47 genera and 16 families and Gulf of Kachchh 78 species of 30 genera and 12 families.Overall species assemblage, Acroporids show the highest number of species diversity of 185 species belongs to six genera. Then, Merulinidae family includes 102 species of 20 genera, followed by Poritidae family consist of 52 species of four genera.The most commonly occurring genera of corals are *Acropora*(104 species), *Montipora* (56 species),*Porites* (30), *Dipsastrea* (20 species), *Goniopora* (20 species), *Favites* (18 species), *Lobophyllia* and *Pavona*both contribute 16 species. Reefs species list are provided in table 1.

Corals from the Merulinidae family are the most common in the GoK (26 species of nine genera), followed by Acroporidae (13 species of two genera). FamilyPoritidae and Dendrophillidae are represented by ten species each belonging to three genera. However, dead and fossilized *Acropora* are found in different patches in the GoK, but, report of live specimen needs to be confirmed[25,39].

In the Lakshadweep Islands, Acroporidae (51 species of five genera), Merulinidae (34 species of 14 genera),and Poritidae (17 species of two genera) form the significant species assemblage. At the

genera level, *Acropora* represented by 36 species, followed by *Porites* (14 species) and *Montipora* (nine species).

In the GoMBR,we recorded occurrence reports of 57 species Acroporidae belonging to three genera, Merulinidae (45 species of 14 genera), Poritidae (19 species of four genera), are the most commonly occurring family. The most common genera are*Acropora*, represented by 33 species, followed by *Montipora* (22 species).

Acroporids formed the dominant species assemblage in the A&N Islands, consist of a total of 164 species belonging to six genera. Followed by Merulinidae family, they contribute 130 species distributed between 19 genera. Forty-three species represented by Fungiidae belongs to 15 genera. Lobophylliidae wasthe next dominant family, consist of 32 species and nine genera. Dendrophyllidae were contributed by 29 species belonging to nine genera. Atthe genera level, *Acropora* is the most common genus, consist of 97 species, followed by *Montipora* and *Porites* contribute 48 and 25 species, respectively. Moreover, most of the study in the A&N Islands are limited to the Mahatma Gandhi Marine National Park and a few other islands, whereas, many Islands (there are 572 islands in A&N Islands) are mostly unexplored[26].

The presence of 301 species only found in the reefs of A&N Islands. Whereas, the GoMBR serves as a home for 27 unique scleractinian species.The distribution of 10 species of scleractinianswasonly restricted in the LKD Islands. GoK has two unique species, namely*Acanthastrea simplex* and *Erythrastrea flabellata*. We found 36 common scleractinian species present acrossthe reefs in A&N Islands, GoMBR, LKD, and GoK. Names of these species are present in Table 1 with *mark.

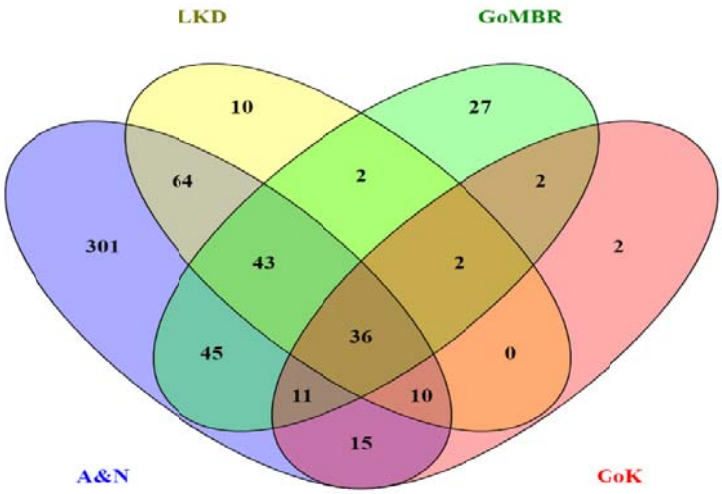

Figure 2. Comparative analysis for occurrence similarity and uniqueness of reported coral species (percentage and number) across the major Indian reefs (A&N=Andaman and Nicobar Islands; LKD=Lakshadweep Islands; GoMBR: Gulf of Mannar Biodiversity Reserve; GoK: Gulf of Kachchh)

Apart from the four main coral reefs of India, the occurrence of patch reefs has been recorded from a few locations on the central west coast of the country. These reefs are characterized by rocky substratum, high turbiditydue to land-based runoff, and coralscan be found from intertidal rock pools to 15m subtidal region[28-29]. Information onthe biodiversity of these reefs is still sparse, therefore more detailed study required to elucidate the faunal diversity. Distribution of scleractinian fauna reported from Ratnagiri, Redi, south of Bombay, Malvan Marine Sanctuary[28], Grande Islands in Goa coast[29-30,] Netrani Island in Karwar coast[31],and Angria bank off Malvan coast[32]. The presence of hard coral species is also reported from Quilon in the Kerala coast to Enayem in Tamilnadu[33]. Pillai and Jasmine (1995) reported the occurrence of 13 species of hermatypic corals belonging to six genera and 16 species of ahermatypic corals belonging to 11 genera from a depth of 40 to 100 meters in the southwest coast (Kerala, Tamilnadu) of India[34]. Here, we enlisted the hard-coral species documented so far from these reefs.Reports on Scleractinian fauna from the coral reefs of the West coast of India are mostly from the Malvan Marine Sanctuary (MMS), Grande Islands, Netrani Island, and the Angria bank. In the MMS, reported species includes *Porites lichen* Dana, 1846, *Porites lutea* (Quoy and Gaimard, 1833); *Goniopora pedunculata* Quoy & Gaimard, 1833, *Goniopora* sp., *Coscinaraea monile* (Forskål, 1775), *Pseodosiderastrea tayami* Yabe & Sugiyama, 1935, *Siderastrea savignyana* Milne Edwards and Haime, 1850, *Cyphastrea* sp., *Turbinaria* sp., *Synarea* sp., *Montastrea* sp., *Leptastrea* sp., *Pavona* sp., *Goniastrea retiformis* (Lamarck, 1816), *Favites halicora* (Eherenberg, 1834), *Favites* sp., *Leptastrea purpurea* (Dana, 1846), *Tubastraea coccinea* Lesson, 1829, *Polycyathus verrilli* Duncan, 1889, *Pavona bipartita* Nemenzo, 1979 (Qasim and wafer, 1979, Parulekar, 1981, Raj et al. 2017).

In the Grande Islands, presence of *Porites* sp., *Goniopora* sp., *Coscinaraea* sp., *Pocillopora* sp., *Siderastrea* sp., *Turbinaria* sp., *Montastrea* sp., *Leptastrea* sp., *Goniastrea* sp., *Favites* sp, *Favia* sp., *Plesiastrea* sp., *Balanophylliacumingii* Milne Edwards and Haime, 1848, *Dendrophyllia indica* Pillai, 1969, *Paracyathus profundus* Duncan, 1889 were recorded (Manikandan et al. 2016, Singarayan and Rethnaraj, 2016).

Zacharia et al. 2008 reported occurrence of *Porites* sp., *Goniopora* sp., *Coscinaraea* sp., *Coscinaraea monile* (Forskål, 1775), *Pocillopora verrucosa* (Ellis and Solander, 1786), *Pocillopora* sp., *Turbinaria* sp., *Symphyllia* sp., *Leptastrea* sp., *Dendrophyllia* sp., *Goniastrea retiformis*

(Lamarck, 1816), *Goniastrea pectinate* (Ehrenberg, 1834), *Favia favus, Plesiastrea versipora* (Lamarck, 1816) in the Netrani Island, Karnataka coast.

Among these reefs, under water survey by Ingole (2017) in the Angria bank revealed highest number of species assemblage, species includes *Acanthastrea sp., Sclerophyllia sp., Lobophyllia corymbosa* (Forskål, 1775), *Dipsastraea sp., Dipsastraea speciosa* (Dana, 1846), *Echinophyllia* sp., *Echinophyllia pectinata* Veron, 2000, *Mycedium* sp., *Scolymia sp., Fungia* sp., *Ctenactis* sp., *Echinopora sp., Galaxea sp., Favites* sp., *Goniastrea* sp., *Paragoniastrea* sp., *Leptastrea* sp., *Psammocora* Sp.,*Plesistrea versipora* (Lamarck, 1816), *Astreopora* sp., *Euphyllia ancora*Veron & Pichon, 1980, *Coelastrea* sp., *Pachyseris speciosa* Dana, 1846, *Platygyra* sp., *Leptoseris* sp, *Pocillopora* sp., *Porites lobata* Dana, 1846, *Porites solida* Forskal, 1775, *Goniopora* sp., *Symphyllia* sp, *Turbinaria mesenterina* (Lamarck, 1816) and*Turbinaria peltata* Esper, 1794.

More recently, Laxmilata et al. (2019) documented mesophotic coral reef associated biota from Puducherry. They reported occurecence of 12 species belonging to ten genera and seven family, viz. *Leptoseris explanata* Yabe & Sugiyama, 1941, *Pavona minuta* Wells, 1954, *Pavona maldivensis* (Gardiner, 1905), *Tubastraea micranthus* (Cairns and Zibrowius, 1997), *Tubastraea coccinea* Lesson, 1829, *Euphyllia ancora* Veron and Pichon, 1980, *Hydnophora rigida* (Dana, 1846), *Goniastrea pectinata* (Ehrenberg, 1834), *Dipsastraea favus* (Forskål, 1775), *Psammocora haimeana* Milne Edwards & Haime, 1851, *Pachyseris speciosa* (Dana, 1846), and *Cycloseris* sp.

Discussion

Reefs in the Gulf of Kachchh (GoK) are in the located north-western part of the Indian Arabian Sea and home of some of the most northern reefs in the world[35]. Patel (1976), Pillai et al. (1979), and Pillai and Patel (1988) presented the comprehensive account of coral diversity and distribution in the GoK[36-37]. Further, Singh et al. (2004) reported 42 species of hard-coral belonging to seven families and 24 genera[38]. Satyanarayana and Ramakrishna (2009) documented 49 species of corals with new records of *Barabattoia amicorum, Favia lacuna*, *Favites flexuosa* and *Turbinaria frondens*from Indian water[39].Raghuraman et al. (2012) reported the occurrence of 49 species belonging to 27 genera and ten families[40]. In a detailed study on reef ecology in the GoK, Sreenath (2015) noted the occurrence of 31 species of hard corals belonging to 20 genera and nine families and mentioned the new record of *Goniopora djiboutiensis*, *G. stokesi*, *Hydnophora pilosa*from the GoK[41]. Further, Kumar et al. (2017) presented an updated checklist showing the presence of 56 species belonging to 27 genera and ten families[42]; however, they left out the new records described by Sreenath (2015). Moreover, a recent study from GoK reported the presence of 53 species of hard coral based on

available literature[43]. However, in the present checklist, we compiled all the occurrence records and the number of the total hard coral fauna of the GoK represented by 78 species of 31 genera and 12 families, which is comparatively higher than earlier checklists.

In the south-western part of India, Lakshadweep reef archipelago located 200-400km away from the Indian mainland and formed by a series of coral atolls. Pillai and Jasmine (1989) reported 104 species of scleractinians, of which 26 species were a new record to the Lakshadweep[44]. Suresh (1991) recorded 105 species of scleractinian fauna, with a new record of 22 species and four genera (*Herpolitha, Leptoseris, Oulophyllia,*and*Pachiseris*)[45]. Caeiro (1999) studied coral fauna of Lakshadweep Islands and reported the occurrence of 96 species of corals belonging to 34 genera and listed 28 new records for Lakshadweep[46]. Moreover, Jeyabaskaran (2007) reported an additional occurrence of 20 species under 13 genera from this region[47]. Additionally, Raghuraman et al. 2012 recorded presences of 104 species (37 genera and 13 families) from LKD Islands[40].

Coral reefs in the Gulf of Mannar Marine Biosphere reserve (GoMBR) are the southernmost reefs of India, located in Tamil Nadu, the Southeast coast of India. The presence of diverse types of reef forms such as fringing, shore platform, patch, and coral pinnacles was found in the Gulf of Mannar and Palk Bay. Pillai (1986) described 94 species in 37 genera[48]. Patterson et al. (2007; 2008) provided a comprehensive account of the coral fauna from this region and reported the presence of 117 species[49-50]. Furthermore, Raghuraman et al. 2012 enumerated 117 species belonging to 40 genera and 14 families from these reefs[40]. Additionally, Venkataraman and Rajan (2013) reported the occurrence of 34 species from this region with 16 new distribution records[51], which is lower than the earlier finding of 63 species by Pillai (1969). A recent studyhas identified 51 species from the GoMBR with 17 new distribution records from this region[52].

Coral reefs in the Andaman and Nicobar Islands in the Bay of Bengal are known for remarkable faunal diversity. Scheer and Pillai (1974) and Pillai (1977, 1978, 1983) documented the diversity and distribution of corals of Andaman and Nicobar Islands[53,17,18,21]. In Andaman and Nicobar Islands, the detailed taxonomic studies of scleractinian fauna wereaccelerated by the Zoological Survey of India (ZSI), Port Blair.Turner et al. (2001) recorded a total of 198 species of scleractinian coral from different islands of Andaman, of which 111 were new records to India[54]. Subsequently, Venkataraman et al. (2003) described 208 species of hard coral species with detailed taxonomic descriptions and discussion on different coral reefs of India[5].

Additionally, Ramakrishna et al. (2010) described 419 species of hardcorals from the Andaman and Nicobar Islands with a new occurrence record of 85 species of scleractinia. Thereafter, another

attempt to compose a checklist of corals from the significant reefs was made by Raghuraman et al. (2012); they reported 478 species under 89 genera and 19 families, of which 424 species (86 genera and 19 families) from Andaman and Nicobar Islands[40]. Subsequently, Mondal et al. (2016) also presented an account of 173 species (48 genera and 14 families) from the Great Nicobar Island[55].

Moreover, extensive exploratory surveys and taxonomic work in recent times unveiled hundreds of scleractinians in a series of publications in the A&N Islands, including a description of a novel species *Favites monticularis*Mondal, Raghunathan and Venkataraman, 2013[56]. Mondal et al. 2017 reported the occurrence of a total of 628 species of hard corals from Indian reefs, and out of these, 588 species were from Andaman and Nicobar Islands[57]. However, after detailed literature searches, we enlisted in 532 species of 96 genera and 22 families in the present checklist.

Furthermore, we found some of these records are based on erroneous identification; for example, the occurrence report of the Caribbean species *Porites porites* from Andaman[26], wherein the photographs in the same description resemble *Heliopora* sp.; an Octocoral species (personal communication with Dr. Douglas Fenner). We also noticed that multiple occasions, species were reported from the Indian coral reefs are endemic to the Atlantic Ocean, or in the Caribbean and other geographical areas. Such as *Halomitra clavator* (Höeksema, 1989) is native to Indonesia, Philippines, Malaysia, and Papua New Guinea, but reported from the A&N Islands[58]. Similarly, *Diploria clivosa* (Ellis and Solander, 1786) reported from the GoMBR[52], is a Caribbean species[52]. Likewise, *Mussismilia braziliensis*(Verrill, 1868) is endemic to Brazilian water but reported from the Andaman[59]. Similarly,*Cantharellus noumeae* Hoeksema and Best, 1984, is an endemicspecies of New Caledonia and does not occur elsewhere. Additionally, a number of species were reported erroneously from the Andaman Islands by different authors are generallynativeto the Caribbean and the Atlantic Ocean, for example, *Mycetophyllia danaana* Milne Edwards and Haime, 1849[26], *Pseudodiploria strigosa* (Dana, 1846)[26], *Agaricia fragilis* Dana, 1848[26],*Favia fragum* (Esper, 1797)[60], *Mussa angulosa* (Pallas 1766)[61], *Solenastrea bournoni* Milne Edwards and Haime, 1849[26,62], *Siderastrea radians* (Pallas, 1766)[40], *Siderastrea siderea* (Ellis and Solander, 1786)[63], *Leptoseris cucullata* (Ellis and Solander, 1786)[40,26], *Porites porites*(Pallas, 1766)[62,64], *Mycetophyllia lamarckiana* Milne Edwards and Haime, 1848[65] and*Leptoseris cucullata* (Ellis & Solander, 1786). Therefore, these species were excluded from the present checklist.In another instance, the occurrences of*Montastrea annularis* (Ellis and Solander, 1786) were reportedfrom the A&N Islands[66] and the GoMBR[52]whichis s previous combination, wrong genus spelling of *Orbicella annularis* (Ellis and Solander, 1786) and is native to Atlantic water[23,67]and erroneously reported from the Andaman Sea and GoMBR, hence, we excluded those records in this checklist.In a few instances,

we also found that some species reported in different synonymy claiming new occurrences from Indian water. For example,*Acropora cytherea* (Dana, 1846) was reported from the Lakshadweep and the A&N Islands with different synonyms, such as, Pillai 1971 reported from Lakshadweep and Mondal et al (2014) from Andaman Islands as *Acropora efflorescens* (Dana, 1846), whereas, same species was recorded from the A&N Island *as Acropora armata* (Brook, 1892) by Reddiah (1977), also as *Acropora corymbosa* (Lamarck, 1816) by Reddiah (1977), and again as *Acropora reticulata* (Brook, 1892) by Pillai 1971 from the Lakshadweep Islands. To mitigate such ambiguity, we used the WoRMS database[23] to identify the synonymous entries and excluded the synonymous records and present the current valid species name. Considering, these occasions, we have added a list of 198 species of scleractinian along with detailed remarks, those were reported in different literature, but have been excluded in the present checklist (Table 3).

Coral identification solely based on morphological observation and underwater monitoring comes with a certain amount of uncertainties, as corals show phenotypic plasticity and intraspecific variationin appearance and skeletal characteristics across the habitat and geographic location[24].Coral taxonomy research in India is so far mostly based on morphological identification or the underwater observation. This problem further aggravates as the coral collection is legally restricted in India (Wildlife (Protection) Act, 1972). Hence, researchers need to rely only on field identification[30].Moreover, identification of coral species solely based on underwater field observation and underwater photographs often leads to erroneous identification, and unfortunately, those misidentifications have been used in over subsequent other publications. We also admit that some of the entries in the present checklist are based on the list of coral species recorded in a different publication, and we could not verify these reports, as are lacking taxonomic details and photographs of the species. Some of the species discussed in this work were reported as synonyms by some and subsequentyas misidentifications,and only a detailed taxonomic study with a more comprehensive geographical range, preferably comparison of the coral skeleton with the other holotype sample, is essential to delineate the Indian scleractinian fauna accurately.Inclusion of synonyms and endemic species of the Atlantic watersby some workers brought thetaxonomic ambiguity in some of the previous occurrence reports from Indian waterand, therefore, need an urgent revision of the voucher specimen and application of advanced molecular tools for confirmation of species in India.These limitations triggered the preparation of the present checklist to document the valid species in Indian reefs. Hence, a dedicated taxonomical research program with a combination of classical morphological identification keys and incorporation of molecular phylogenetic techniques, along withinter-instituteor international collaboration, would be desirable to

unveil new coral records and rectification of earlier erroneous reports, which will be helpful to underline conservation policies.

Table 1. The revised checklist of hard coral from India **(**x: not reported**)**

Sr. No.	Species Name	Gulf of Kachchh (GoK)	Gulf of Mannar Marine Biosphere Reserve (GoMBR)	Lakshadweep Islands (LKD)	Andaman &Nicobar Islands (A&N)
Family ACROPORIIDAE Verrill, 1902 **Genus *Acropora* Oken, 1815**					
1.	*Acropora abrotanoides* (Lamarck, 1816)	x	Pillai 1967	Pillai 1972	Reddiah 1977
2.	*Acropora abrolhosensis*Veron, 1985	x	Edward et al. 2007	x	x
3.	*Acropora acuminata* (Verrill, 1864)	x	x	x	Mondal et al. 2015
4.	*Acropora anthocercis* (Brook, 1893)	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
5.	*Acropora arabensis* Hodgson & Carpenter, 1995	x	Geetha & Kumar 2012	x	x
6.	*Acropora aspera* (Dana, 1846)	x	x	Pillai 1989	Pillai 1967
7.	*Acropora austera* (Dana, 1846)	x	x	Suresh 1991	Turner et al. 2009; Venkataraman et al. 2012
8.	*Acropora awi* Wallace & Wolstenholme, 1998	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011
9.	*Acropora batunai* Wallace, 1997	x	x	x	Mondal et al. 2014
10.	*Acropora bifurcata* Nemenzo, 1971	x	x	x	Mondal et al. 2014
11.	*Acropora branchi* Riegl,1995	x	Geetha & Kumar 2012	x	x
12.	*Acropora capillaris* (Klunzinger, 1879	x	x	Suresh 1991	x
13.	*Acropora carduus* (Dana,1846)	x	x	x	Turner et al. 2009
14.	*Acropora caroliniana* Nemenzo, 1976	x	x	x	Venkataraman et al. 2003; Ramakrishna et al. 2010
15.	*Acropora cerealis* (Dana, 1846)	x	x	Caeiro 1999	Turner et al. 2009
16.	*Acropora cervicornis* (Lamarck, 1816),	x	x	Sreenath et al. 2015	Mondal et al. 2015; Mondal et al. 2017 Mondal et al. 2015
17.	*Acropora chesterfieldensis* Veron & Wallace, 1984	x	Krishnan et al. 2018	x	Turner et al. 2009
18.	*Acropora clathrata* (Brook, 1891)	x	x	x	Reddiah 1977
19.	*Acropora cophodactyla* (Brook,1892)	x	x	x	Turner et al. 2009
20.	*Acropora cytherea* (Dana, 1846)	x	Pillai 1967	Pillai 1971	Reddiah 1977; Mondal et al. 2014
21.	*Acropora dendrum* (Bassett-Smith, 1890)	x	x	x	Mondal et al. 2014

22.	*Acropora desalwii* (Wallace, 1994)	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2014
23.	*Acropora divaricata* (Dana,1846)	x	x	Suresh 1991	Turner et al. 2009
24.	*Acropora digitifera* (Dana,1846)	x	Pillai 1967e	x	Reddiah 1977
25.	*Acropora donei* Veron & Wallace, 1984	x	x	x	Turner et al. 2009
26.	*Acropora echinata* (Dana, 1846)	x	Pillai 1967e	Pillai 1971	Pillai 1967e
27.	*Acropora elseyi* (Brook, 1892)	x	x	x	Mondal et al. 2013
28.	*Acropora exigua* (Dana, 1846)	x	Pillai 1967e	x	x
29.	*Acropora exquisita* Nemazo, 1971 (*nomen dubium*)	x	x	x	Mondal et al. 2013; Raghunathan 2015
30.	*Acropora fastigata* Nemenzo, 1967	x	x	x	Mondal et al. 2011
31.	*Acropora florida* (Dana,1846)	x	Pillai 1967e	Suresh 1991	Reddiah 1977
32.	*Acropora forskali* (Ehrenberg, 1834) (*nomen dubium*)	x	Krishnan et al. 2018	Pillai 1971	Mondal et al. 2011; Venkataraman et al. 2012
33.	*Acropora gemmifera* (Brook, 1892)	x	Venkataraman & Rajan, 2013	Sreenath et al. 2015	Turner et al. 2009
34.	*Acropora glauca* (Brook,1893)	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
35.	*Acropora globiceps* (Dana, 1846)	x	x	x	Turner et al. 2009
36.	*Acropora gomezi* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Raghuraman et al. 2012
37.	*Acropora grandis* (Brook, 1892)	x	x	x	Reddiah 1977
38.	*Acropora granulosa* (Milne Edwards, 1860)	x	x	Pillai 1989	Turner et al. 2009
39.	*Acropora haimei* Edwards,1860 (taxon inquirendum)	x	Pillai 1967	Pillai 1971	Ramakrishna et al. 2010; Mondal et al. 2011
40.	*Acropora hemprichii* (Ehrenberg, 1834)	x	Sukumaran et al. 2007	Pillai 1971	Turner et al. 2009
41.	*Acropora hoeksemai* Wallace, 1997	x	x	x	Mondal et al. 2014
42.	*Acropora horrida* (Dana, 1836)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
43.	*Acropora humilis* (Dana, 1846)*	Pillai & Patel 1988	Pillai 1967	Pillai 1989	Pillai 1969
44.	*Acropora hyacinthus* (Dana, 1846)	x	Pillai 1967	Pillai 1971	Pillai 1972
45.	*Acropora indica* (Brook, 1893) (*nomen dubium*)	x	Brook 1893	Pillai 1971	x
46.	*Acropora intermedia* (Brook, 1891)	x	Pillai 1967e	Pillai 1971	Reddiah 1977
47.	*Acropora insignis* Nemenzo, 1967 (*nomen dubium*)	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2010; Mondal et al. 2017
48.	*Acropora kimbeensis* Wallace, 1999	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011; Mondal et al. 2014
49.	*Acropora kosurini* Wallace, 1994	x	x	x	Turner et al. 2009
50.	*Acropora latistella* (Brook, 1892)	x	x	x	Mondal et al. 2014

51.	*Acropora lamarcki* Veron 2000	x	Sukumaran et al. 2007	Sreenath et al. 2015	x
52.	*Acropora loisetteae* Wallace, 1994	x	x	x	Turner et al. 2009
53.	*Acropora longicyathus* (Milne Edwards, 1860)	x	x	Sreenath et al. 2015	Pillai 1967e
54.	*Acropora lovelli* Veron & Wallace, 1984	x	x	x	Mondal & Raghunathan 2016
55.	*Acropora loripes* (Brook, 1892)	x	x	x	Venkataraman et al. 2003 Turner et al. 2009
56.	*Acropora lutkeni* Crossland, 1952	x	x	x	Turner et al. 2009
57.	*Acropora microclados* (Ehrenberg, 1834)	x	x	x	Venkataraman et al. 2003; Ramkrishna et al. 2010; Venkataraman et al. 2012
58.	*Acropora microphthalma* (Verrill, 1859)	Satyanarayana & Ramakrishna 2009	x	Sreenath et al. 2015	Venkataraman et al. 2003; Ramakrishna et al. 2010; Venkataraman et al. 2012
59.	*Acropora millepora* (Ehrenberg,1834)	x	x	Caeiro 1999	Tikader et al. 1986
60.	*Acropora minuta* Veron, 2000	x	x	x	Raghuraman et al. 2012[#]
61.	*Acropora mirabilis* (Quelch,1886) (*nomen dubium*)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
62.	*Acropora monticulosa* (Brüggemann, 1879)	x	x	Pillai 1971	Reddiah 1977
63.	*Acropora multiacuta* Nemenzo, 1967	x	x	x	Tikader et al. 1986
64.	*Acropora muricata* (Linnaeus, 1758)	x	Venkataraman et al 2003	Venkatarama n et al 2003	Venkataraman et al. 2003
65.	*Acropora nana* (Studer, 1877)	x	x	x	Venkataraman et al. 2012
66.	*Acropora natalensis* Riegl, 1995	x	x	x	Mondal et al. 2013
67.	*Acropora nasuta* (Dana, 1846)	x	Edward et al. 2007	Pillai 1989	Reddiah 1977
68.	*Acropora palmerae* Wells, 1954	x	x	x	Reddiah 1977; Venkataraman et al. 2003
69.	*Acropora paniculata* Verrill, 1902	x	x	x	Turner et al. 2009
70.	*Acropora papillare* Latypov, 1992	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
71.	*Acropora pectinata* Veron, 2000	x	x	x	Mondal et al. 2015b
72.	*Acropora pharaonis* (Milne Edwards, 1860)	x	Pillai 1967	Pillai 1971	Ramakrishna et al. 2010; Venkataraman et al. 2012
73.	*Acropora plantaginea* (Lamarck,1816) (*nomen dubium*)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
74.	*Acropora polystoma* (Brook, 1891)	x	Krishnan et al. 2018	x	Venkataraman et al. 2003; Ramakrishna et al. 2010; Venkataraman et al. 2012

75.	*Acropora proximalis* Veron, 2002	x	x	x	Turner et al. 2009
76.	*Acropora pulchra* (Brook, 1891)	x	x	Caeiro 1999	Reddiah 1977
77.	*Acropora pruinosa* (Brook, 1893)	Raghuraman et al. 2013 (location not mentioned)			
78.	*Acropora retusa* (Dana, 1846)	x	Sukumaran et al. 2007	x	x
79.	*Acropora robusta* (Dana,1846)	x	Pillai 1967	Pillai 1989	Pillai 1967
80.	*Acropora roseni* Wallace, 1999	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
81.	*Acropora rudis* (Rehberg,1892)	x	Venkataraman et al. 2003	x	Turner et al. 2009
82.	*Acropora samoensis* (Brook,1891)	x	Sukumaran et al. 2007	x	Ramakrishna et al. 2010, Mondal et al. 2014
83.	*Acropora sarmentosa* (Brook, 1892)	x	x	x	Turner et al. 2009
84.	*Acropora secale* (Studer, 1878)	x	Pillai 1967 e	x	Pillai 1967e
85.	*Acropora selago* (Studer,1878)	x	x	Suresh 1991	Turner et al. 2009
86.	*Acropora solitaryensis* Veron & Wallace, 1984	x	x	x	Venkataraman et al. 2003 Turner et al. 2009
87.	*Acropora spicifera* (Dana, 1846)	x	Pillai 1967	x	Turner et al. 2009
88.	*Acropora speciosa* (Quelch, 1886)	x	x	Pillai 1971	Tikader et al. 1986
89.	*Acropora squarrosa* (Ehrenberg,1834)*	Pillai & Patel 1988	Pillai 1967e	Pillai 1971	Reddiah 1977
90.	*Acropora subglabra* (Brook, 1891)	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
91.	*Acropora subulata* (Dana, 1846)	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan 2017
92.	*Acropora striata* (Verrill, 1866)	x	x	x	Mondal et al. 2014
93.	*Acropora tenuis* (Dana, 1846)	x	x	Caeiro 1999	Turner et al. 2009
94.	*Acropora teres* (Verrill, 1866) (*nomen dubium*)	x	x	Pillai 1989	Mondal et al. 2014
95.	*Acropora tanegashimensis* Veron, 1990	x	x	x	Mondal et al. 2010
96.	*Acropora thurstoni* (Brook, 1893) (*nomen dubium*)	x	Pillai 1967	x	x
97.	*Acropora turaki* Wallace, 1994	x	x	x	Raghuraman et al. 2012; Mondal et al. 2014
98.	*Acropora valenciennesi* (Milne Edwards & Haime, 1860)	x	Pillai 1967; Venkataraman et al. 2003	Suresh 1991	Turner et al. 2009
99.	*Acropora valida* (Dana, 1846)	Pillai 1972	x	Caeiro 1999	Pillai 1972
100.	*Acropora variolosa* (Klunzinger, 1879)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal et al. 2014
101.	*Acropora vaughani* Wells, 1954	x	x	x	Turner et al. 2009
102.	*Acropora verweyi* Veron & Wallace,1984	x	Geetha & Kumar 2012	x	Ramakrishna et al. 2010; Venkataraman et al. 2012

103.	*Acropora yongei* Veron & Wallace, 1984	x	x	x	Mondal & Raghunathan 2016
104.	*Acropora willisae* Veron & Wallace, 1984	x	x	x	Mondal et al. 2014
Genus *Alveopora* Blainville, 1830					
105.	*Alveopora allingi* Hoeffmeister, 1925	x	x	x	Mondal et al. 2013; Mondal et al. 2014; Mondal et al. 2015
106.	*Alveopora catalai* Wells, 1968	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan 2017
107.	*Alveopora daedalea* (Forskål, 1775)	x	x	x	Tikader et al. 1986
108.	*Alveopora gigas* Veron, 1985	x	x	x	Mondal et al. 2013; Mondal et al. 2015
109.	*Alveopora marionensis* Veron & Pichon, 1982	x	x	x	Sadhukhan & Raghunathan 2012
110.	*Alveopora verrilliana* Dana, 1846	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
111.	*Alveopora superficialis* Pillai & Scheer, 1976	x	x	Pillai 1989	Venkataraman et al. 2003
Genus *Anacropora* Ridley, 1884					
112.	*Anacropora forbesi* Ridley, 1884	x	x	x	Mondal et al. 2012
113.	*Anacropora pillai* Veron, 2000	Raghuraman et al. 2013 (location not mentioned)			
114.	*Anacropora reticulata* Veron & Wallace, 1984	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
115.	*Anacropora spinosa* Rehberg, 1892	x	x	x	Mondal et al. 2015
Genus *Astreopora* Blainville, 1830					
116.	*Astreopora cucullata* Lamberts, 1980	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
117.	*Astreopora gracilis* Bernard, 1896	x	x	Suresh 1991	Turner et al. 2009
118.	*Astreopora incrustans* Bernard, 1896	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
119.	*Astreopora listeri* Bernard, 1896	x	x	Pillai 1989	Tikader et al. 1986
120.	*Astreopora myriophthalma* (Lamarck,1816)	x	x	Pillai 1989	Turner et al. 2009; Venkataraman et al. 2012
121.	*Astreopora ocellata* Bernard, 1896	x	x	Caeiro 1999	Ramakrishna et al. 2010; Venkataraman et al. 2012
122.	*Astreopora randalli* Lamberts, 1980	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
123.	*Astreopora scabra* Lamberts, 1982	x	x	x	Mondal et al. 2015
124.	*Astreopora suggesta* Wells, 1954	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
Genus *Isopora* Studer, 1878					
125.	*Isopora brueggemanni* (Brook, 1893)	x	Krishnan et al. 2018	x	Reddiah 1977
126.	*Isopora cuneata* (Dana, 1846)	x	Pillai (1967)	x	Raghunathan 2015; Mondal et al. 2019

127.	*Isopora crateriformis* (Gardiner, 1898)	x	x	x	Mondal et al. 2014
128.	*Isopora elizabethensis* (Veron, 2000)	x	x	x	Raghuraman et al. 2012, 2013
129.	*Isopora palifera* (Lamarck, 1816)	x	x	Pillai 1971; Sreenath et al. 2015	Reddiah 1977; Venkataraman et al. 2003
Genus *Montipora* Blainville, 1830					
130.	*Montipora aequituberculata* Bernard,1897	x	Pillai 1967e,	x	Reddiah 1977
131.	*Montipora angulata* Lamarck, 1816	x	x	x	Venkataraman et al. 2003; Venkataraman et al. 2012
132.	*Montipora caliculata* (Dana, 1846)	x	x	x	Turner et al. 2009
133.	*Montipora capitata* (Dana, 1846)	x	x	x	Turner et al. 2009
134.	*Montipora capricornis* Veron, 1985	x	x	x	Mondal et al. 2014
135.	*Montipora cebuensis* Nemenzo,1976	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal et al. 2017
136.	*Montipora circumvallata* (Ehrenberg, 1834)	x	x	x	Mondal et al. 2014
137.	*Montipora cocosensis* Vaughan, 1918	x	x	x	Tikader et al. 1986
138.	*Montipora confusa* Nemenzo, 1967	x	x	x	Mondal et al. 2013
139.	*Montipora corbettensis* Veron & Wallace, 1984	x	x	x	Raghunathan et al. 2015; Mondal et al. 2015
140.	*Montipora crassituberculata* Bernard, 1897	x	x	x	Mondal et al. 2012
141.	*Montipora danae* Milne Edwards & Haime, 1851	Singh et al. 2003	x	x	Rajan et al. 2010
142.	*Montipora delicatula* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Raghunathan et al. 2013
143.	*Montipora digitata* (Dana, 1846)*	Singh et al. 2003	Venkataraman et al. 2003	Venkatarama n et al. 2003	Pillai 1967
144.	*Montipora edwardsi* Bernard, 1897	x	Pillai 1967e	x	x
145.	*Montipora efflorescens* Bernard, 1897	x	x	x	Mondal et al. 2013
146.	*Montipora effusa* (Dana, 1846)	x	x	x	Mondal et al. 2012
147.	*Montipora elschneri* Vaughan, 1918 (*taxon inquirendum*)	x	Pillai 1967	x	x
148.	*Montipora explanata* Brüggemann, 1879	Pillai & Patel 1988	Pillai 1967	Pillai 1989	x
149.	*Montipora exserta* Quelch, 1886 (*taxon inquirendum*)	x	Pillai 1967	x	x
150.	*Montipora feveolata* (Dana,1846)	x	x	Jeyabaskaran 2009	x
151.	*Montipora flabellata* Studer,1901	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
152.	*Montipora florida* Nemenzo, 1967	x	x	x	Reddiah 1977
153.	*Montipora foliosa* (Pallas,1766)*	Pillai & Patel 1988	Bernard 1897	Pillai 1989	Pillai 1967
154.	*Montipora foveolata* (Dana, 1846)	x	x	Caeiro 1999	Turner et al. 2009

155.	*Montipora friabilis* Bernard, 1897	x	Geetha & Kumar 2012	x	x
156.	*Montipora gaimardi* Bernard, 1897	x	x	x	Mondal et al. 2011
157.	*Montipora granulosa* Bernard, 1897	x	Pillai 1967	x	x
158.	*Montipora grisea* Bernard, 1897	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan 2017
159.	*Montipora hemispherica* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
160.	*Montipora hispida* (Dana, 1846)	Pillai & Patel 1988	x	Suresh 1991	Reddiah 1977
161.	*Montipora informis* Bernard, 1897	x	Pillai 1967e	x	Venkataraman et al. 2012; Mondal et al. 2015, 2017
162.	*Montipora jonesi*Pillai, 1986	x	Pillai 1983, 1986	x	x
163.	*Montipora manauliensis* Pillai, 1967	x	Pillai 1967a	x	x
164.	*Montipora meandrina* (Ehrenberg, 1834)	x	x	x	Turner et al. 2009
165.	*Montipora millepora* Crossland, 1952	x	Pillai 1967e	x	Mondal et al. 2013
166.	*Montipora mollis* Bernard, 1897	x	x	x	Mondal et al. 2013; 2015
167.	*Montipora monasteriata* (Forskål, 1775)	Pillai & Patel 1988	Pillai 1967e, Venkataraman & Rajan, 2013	x	x
168.	*Montipora nodosa* (Dana, 1846)	x	x	x	Mondal et al. 2014
169.	*Montipora palawanensis* Veron, 2000	x	x	x	Ramakrishna et al. 2010
170.	*Montipora peltiformis* Bernard, 1897	x	Sukumaran et al. 2007	x	Tikader et al. 1986
171.	*Montipora porites* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2015
172.	*Montipora samarensis* Nemenzo, 1967	x	Krishnan et al. 2018	x	Mondal et al. 2012
173.	*Montipora spongiosa* (Ehrenberg, 1834)	x	x	x	Mondal et al. 2013
174.	*Montipora spumosa* (Lamarck, 1816)	x	Pillai 1967e	x	Ramakrishna et al. 2010; Mondal et al. 2015
175.	*Montipora taiwanensis* Veron, 2000	x	x	x	Ramakrishna et al. 2010, Mondal et al. 2015
176.	*Montipora tortuosa* Dana, 1846	x	x	x	Tikader et al. 1986
177.	*Montipora turgescens* Bernard, 1897*	Pillai & Patel 1988	Pillai 1967e	Pillai 1989	Tikader et al. 1986; Turner et al. 2009
178.	*Montipora tuberculosa* (Lamarck,1816)	x	Sukumaran et al. 2007	Pillai 1989	Turner et al. 2009
179.	*Montipora turtlensis* Veron &Wallace, 1984	x	x	x	Mondal et al. 2012; 2017
180.	*Montipora undata* Bernard, 1897	x	x	x	Ramakrishna et al. 2010; Raghunathan et al. 2015; Mondal et al. 2017

181.	*Montipora verrucosa* (Lamarck, 1816)	Singh et al. 2003	Pillai 1967e	x	Turner et al. 2009; Venkataraman et al. 2012
182.	*Montipora verruculosa* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
183.	*Montipora venosa* (Ehrenberg, 1834)*	Pillai & Patel 1988	Pillai 1967e	Pillai 1989	Turner et al. 2009; Venkataraman et al. 2012
184.	*Montipora verrilli* Vaughan, 1907	x	Pillai 1967e	x	Venkataraman et al. 2012
185.	*Montipora vietnamensis* Veron, 2000	x	x	x	Turner et al. 2009; Venkataraman et al. 2012; Mondal et al. 2019
Family ASTROCOENIIDAE Koby, 1890					
Genus *Madracis* Milne Edwards & Haime, 1849					
186.	*Madracis interjecta* Marenzeller, 1906	x	Edward et al. 2008	x	x
187.	*Madracis kirbyi* Veron & Pichon, 1976	x	Venkataraman et al. 2003	x	Venkataraman et al. 2003; Venkataraman et al. 2012
Genus *Stylocoeniella* Yabe & Sugiyama, 1935					
188.	*Stylocoeniella armata* (Ehrenberg, 1834)	x	x	x	Turner et al. 2009
189.	*Stylocoeniella guentheri* (Bassett-Smith, 1890)	x	x	x	Venkataraman et al. 2003; Turner et al. 2009
Family AGARICIIDAE Grey, 1847					
Genus: *Agaricia* Lamarck, 1801					
190.	*Agaricia grahamae* Wells 1973	x	x	x	Mondal & Raghunathan 2012
Genus *Coeloseris* Vaughan, 1918					
191.	*Coeloseris mayeri* Vaughan, 1918	x	x	x	Tikader et al. 1986
Genus *Gardineroseris* Scheer & Pillai, 1974					
192.	*Gardineroseris planulata* (Dana, 1846)	x	x	Pillai 1989	Venkataraman et al. 2003; Turner et al. 2009
Genus *Leptoseris* Milne Edwards & Haime, 1849					
193.	*Leptoseris explanata* Yabe & Sugiyama,1941	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
194.	*Leptoseris foliosa* Dinesen, 1980	x	x	x	Mondal et al. 2013
195.	*Leptoseris fragilis* Milne Edwards & Haime, 1849	x	x	x	Matthai 1924a
196.	*Leptoseris gardineri* Van der Horst, 1921	x	x	x	Mondal et al. 2012
197.	*Leptoseris incrustans* (Quelch, 1886)	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
198.	*Leptoseris hawaiiensis* Vaughan, 1907	x	x	x	Matthai 1924a; Venkataraman et al. 2012
199.	*Leptoseris mycetoseroides* Wells, 1954	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
200.	*Leptoseris papyracea* (Dana, 1846)	x	x	x	Matthai 1924a;

					Venkataraman et al. 2012
201.	*Leptoseris scabra* Vaughan, 1907	x	x	Suresh 1991	Turner et al. 2009; Venkataraman et al. 2012
202.	*Leptoseris solida* (Quelch, 1886)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal et al. 2013
203.	*Leptoseris striata* Fenner & Veron, 2000	x	x	x	Raghuranathan 2015; Mondal et al. 2013, 2019
204.	*Leptoseris tubulifera* Vaughan, 1907	x	x	x	Mondal et al. 2019
205.	*Leptoseris yabei* (Pillai & Scheer, 1976)	x	x	x	Turner et al. 2009; Mondal et al. 2013
Genus *Pavona* Lamarck, 1801					
206.	*Pavona bipartita* Nemenzo, 1980	x	x	x	Turner et al.2009; Venkataraman et al. 2012
207.	*Pavona cactus* (Forskål, 1775)	x	x	x	Matthai 1924, Pillai 1972
208.	*Pavona clavus* (Dana, 1846)	x	x	x	Tikader et al. 1986; Venkataraman et al. 2012
209.	*Pavona danai* Milne Edwards 1860	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011
210.	*Pavona decussata* (Dana, 1846)	x	Pillai 1967	x	Matthai 1924
211.	*Pavona divaricata* Lamarck, 1816	x	Sukumaran et al. 2007	x	Mondal et al. 2013
212.	*Pavona diffluens* (Lamarck, 1816)	x	x	x	Mondal et al. 2015; Raghunathan 2015
213.	*Pavona duerdeni* Vaughan, 1907	x	x	Pillai 1989	Tikader et al. 1986
214.	*Pavona explanulata* (Lamarck, 1816)	x	x	Jeyabaskaran 2009	Pillai 1967
215.	*Pavona frondifera* (Lamarck, 1816)	x	x	x	Mondal et al. 2012
216.	*Pavona gigantea* Verrill, 1896	x	x	x	Venkataraman et al. 2012; Mondal & Raghunathan 2017; Mondal et al. 2019
217.	*Pavona maldivensis* (Gardiner, 1905)	x	Pillai 1967	Pillai 1971	Mondal et al. 2013
218.	*Pavona minuta* Wells, 1954	x	x	Suresh 1991	Mondal et al. 2013
219.	*Pavona varians* Verrill, 1864)	x	Pillai 1967	Pillai 1967	Tikader et al. 1986
220.	*Pavona venosa* (Ehrenberg, 1834)	x	Pillai 1967	Caeiro 1999	Reddiah 1977
221.	*Pavona xarifae* Scheer & Pillai, 1974	x	x	x	Tikader et al. 1986
Family CARYOPHYLLIIDAE Dana. 1846 **Genus *Caryophyllia* Lamarck, 1801**					
222.	*Caryophyllia* (*Caryophyllia*) *ambrosia* Alcock, 1898	x	Alcock (1898)	x	x
223.	*Caryophyllia* (*Caryophyllia*) *cintinculata* (Alcock, 1898)	x	x	x	Horst 1931, Pillai 1972
224.	*Caryophyllia* (*Caryophyllia*) *ephyla* Alcock, 1891	Alcock (1898) reported from Chennai coast			
225.	*Caryophyllia* (*Caryophyllia*)	x	x	Venkatarama	Venkataraman 2007

	gr&is Gardiner & Waugh, 1938			n 2007	
226.	*Caryophyllia* (*Acanthocyathus*)*grayi* (Milne Edwards & Haime, 1848)	x	x	x	Alcock 1998; Venkataraman 2006
227.	*Caryophyllia* (*Caryophyllia*) *paradoxus* Alcock, 1898	Alcock (1898) reported from Kerala coast			
228.	*Caryophyllia* (*Caryophyllia*) *smithii* Stokes & Broderip, 1828	x	x	Alcock (1898)	Alcock (1898)
Genus *Desmophyllum*Ehrenberg, 1834					
229.	*Desmophyllum dianthus* (Esper, 1794)	x	x	x	Mondal et al. 2017
Genus *Heterocyathus* Milne Edwards & Haime, 1848					
230.	*Heterocyathus aequicostatus* Milne Edwards & Haime, 1848	x	Venkataraman 2007	x	Alcock (1993); Pillai (1972)
231.	*Heterocyathus alternatus* Verrill, 1865	Venkataraman 2007 Chennai coast			
232.	*Heterocyathus sulcatus* (Verrill, 1866)	Venkataraman 2007 Chennai coast			
Genus *Paracyathus* Milne Edwards & Haime, 1848					
233.	*Paracyathus indicus* Duncan, 1899	x	x	x	Horst 1931; Pillai 1972
234.	*Paracyathus parvulus* Gardiner, 1899	x	Pillai 1967	x	x
235.	*Paracyathus profundus* Duncan, 1889	x	Pillai, 1986	x	x
236.	*Paracyathus pruinosus*Alcock, 1902	x	x	x	Raghuraman & Raghunathan 2015
237.	*Paracyathus stokesii* Milne Edwards & Haime, 1848	Pillai & Patel 1988	Venkataraman 2006	x	Venkataraman 2006; Mondal et al. 2015
238.	*Paracyathus rotundatus* Semper, 1872	x	x	x	Mondal et al. 2014
Genus *Polycyathus* Duncan, 1876					
239.	*Polycyathus verrilli* Duncan, 1889	Pillai & Patel 1988	Sukumaran et al. 2007	x	Tikader et al.1986
240.	*Polycyathus andamanensis* Alcock, 1893	x	x	x	Alcock 1993, Pillai 1972
241.	*Polycyathus fuscomarginatus* (Klunzinger, 1879)	Venkataraman 2007 Chennai coast			
Genus *Solenosmilia* Duncan, 1873					
242.	*Solenosmilia variabilis* Duncan, 1873	Alcock (1898) from Kerala coast (as per pillai, 1967)			
Genus *Stephanocyathus* Seguenza, 1864					
243.	*Stephanocyathus* (*Odontocyathus*) *nobilis* (Moseley in Thompson, 1873)	x	Alcock (1898), also from off goa coast (as per pillai, 1967)	Venkatarama n 2007	x
Genus*Trochocyanthus* Milne Edwards & Haime, 1848					
244.	*Trochocyanthus* sp.	x	x	Pillai 1967	x
Family COSCINARAEIDAE Benzoni, Arrigoni, Stefani & Stolarski, 2012 **Genus *Coscinaraea* Milne Edwards & Haime, 1848**					
245.	*Coscinaraea columna* (Dana, 1846)	Satyanaraya na & Ramakrishn a 2009	x	*x*	Turner et al. 2009
246.	*Coscinaraea crassa* Veron & Pichon,1980	x	Rajan & Venkataraman,	x	Turner et al. 2009

			2010 Chennai coast		
247.	*Coscinaraea monile* (Forskål, 1775)	Pillai & Patel 1988	Pillai 1967	x	Mondal & Raghunathan 2017; Mondal et al. 2015, 2019
248.	*Coscinaraea exesa* (Dana, 1846)	x	x	Pillai 1971	Mondal et al. 2012
Family DELTOCYATHIDAE Cairns, Stolarski & Miller, 2012					
Genus *Deltocyathus* Milne Edwards & Haime, 1848					
249.	*Deltocyathus andamanicus* Alcock, 1898	x	x	x	Alcock (1898), Tikader et al.1986
250.	*Deltocyathus rotulus* (Alcock, 1898)	Venkataraman 2007 Chennai coast			
Family DENDROPHYLLIIDAE Grey, 1847					
Genus *Balanophyllia* Wood, 1844					
251.	*Balanophyllia* (*Balanophyllia*) *cumingii* Milne Edwards & Haime, 1848	x	Pillai & Jasmine 1995 off Quilon	x	x
252.	*Balanophyllia* (*Balanophyllia*) *galapagensis* Vaughan, 1907	x	x	x	Mondal et al. 2017
253.	*Balanophyllia* (*Eupsammia*) *imperialis* Kent, 1871	x	x	x	Venkataraman 2007
254.	*Balanophyllia* (*Balanophyllia*) *merguiensis* Duncan, 1889	x	x	x	Mondal et al. 2014
255.	*Balanophyllia* (*Balanophyllia*) *parallela* Samper, 1889	x	x	x	Alcock 1893
256.	*Balanophyllia* (*Balanophyllia*) *scabra* Alock,1983	x	x	x	Alcock 1893, Pillai 1972
257.	*Balanophyllia* (*Eupsammia*) *stimpsonii* (Verrill, 1865)	x	Venkataraman 2007	x	Venkataraman 2007
258.	*Balanophyllia (Balanophyllia) vanderhorsti* Cairns, 2001	x	x	x	Mondal et al. 2014
Genus *Cladopsammia* Lacaze-Duthiers, 1897					
259.	*Cladopsammia gracilis* (Milne Edwards & Haime, 1848)	x	Pillai 1986	x	x
260.	*Cladopsammia eguchii* (Wells, 1982)	x	x	x	Mondal et al. 2017
Genus *Dendrophyllia* de Blainville, 1830					
261.	*Dendrophyllia arbuscula* van der Horst, 1922	x	x	x	Tikader et al. 1986
262.	*Dendrophyllia cornigera* (Lamarck, 1816)	x	Pillai & Jasmine 1995 off Quilon	x	x
263.	*Dendrophyllia indica* Pillai, 1969	x	Pillai 1967c; Venkataraman et al. 2002	x	x
264.	*Dendrophyllia minuscula* Bourne, 1905	Pillai & Patel 1988	Pillai & Jasmine 1995 off Quilon	x	Sudarshan & Mukhopadhyay 1967, Tikader et al. 1986; Venkataraman et al. 2012
265.	*Dendrophyllia robusta* (Bourne,1905)	x	Pillai 1967	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
Genus *Enallopsammia* Sismonda, 1871					
266.	*Enallopsammia rostrata* (Pourtalès, 1878)	x	Venkataraman 2007	x	Pillai 1983

267.	*Enallopsammia pusilla* (Alcock, 1902)	x	x	x	Pillai 1983
Genus *Eguchipsammia* Cairns, 1994					
268.	*Eguchipsammia gaditana* (Duncan, 1873)	x	Venkataraman 2007	x	x
Genus *Endopachys* Milne Edwards & Haime, 1848					
269.	*Endopachys grayi* Milne Edwards & Haime, 1848	Pillai & Jasmine 1995 off Quilon			
Genus *Endopsammia* Milne Edwards & Haime, 1848					
270.	*Endopsammia philippensis* Milne Edwards & Haime, 1848	x	Venkataraman 2007	Pillai 1967	Venkataraman & Satyanarayana. 2012
Genus *Heteropsammia* Milne Edwards & Haime, 1848					
271.	*Heteropsammia cochlea* (Spengler, 1781)	x	Pillai & Jasmine 1995 off Quilon, Venkataraman 2007 Chennai coast	x	Tikader et al. 1986
272.	*Heteropsammia eupsammides* (Gray, 1849)	x	x	x	Alcock 1893, Pillai 1972
Genus *Rhizopsammia* Verrill, 1869					
273.	*Rhizopsammia verrilli* van der Horst, 1922	x	x	x	Mondal et al. 2012
Genus *Tubastraea* Lesson, 1829					
274.	*Tubastraea coccinea* Lesson, 1829	Pillai & Patel 1988	x	Pillai 1989	Tikader et al. 1986
275.	*Tubastraea diaphana* Dana,1846	x	x	X	Venkataraman et al. 2003; Ramakrishna et al. 2010; Mondal & Raghunathan 2017
276.	*Tubastraea faulkneri* Wells, 1982	Singh et al. 2003	x	x	Ramakrishna et al. 2010; Raghunathan et al. 2015
277.	*Tubastraea micranthus* (Ehrenberg, 1834)	Singh et al. 2003	x	Suresh 1991	Tikader et al. 1986; Venkataraman et al. 2003
Genus *Turbinaria* J. V. Lamouroux, 1825					
278.	*Turbinaria crater* (Pallas, 1766) (*nomen dubium*)*	Pillai & Patel 1988	Pillai 1967	Pillai 1989	Tikader et al. 1986
279.	*Turbinaria frondens* (Dana, 1846)*	Satyanarayana & Ramakrishna 2009	Venkataraman & Rajan, 2013	Caeiro 1999	Mondal et al. 2015
280.	*Turbinaria irregularis* Bernard, 1896	x	x	x	Mondal et al. 2015
281.	*Turbinaria mesenterina* (Lamarck, 1816)	Kumar et al. 2014	Pillai 1967	Pillai 1989	x
282.	*Turbinaria mollis* Bernard, 1896 taxon inquirendum	Raghuraman et al. 2013 (location was not mentioned)			
283.	*Turbinaria patula* (Dana, 1846)	x	Geetha & Yogesh Kumar, 2012; Mathews et al. 2017	x	x
284.	*Turbinaria peltata* (Esper, 1794)	Pillai & Patel 1988	Pillai 1967	x	Tikader et al. 1986
285.	*Turbinaria quincuncialis* Ortmann,	x	Pillai 1967	x	x

	1889 (*nomen dubium*)				
286.	*Turbinaria radicalis* Bernard, 1896	x	x	x	Mondal et al. 2013
287.	*Turbinaria reniformis* Bernard, 1896	Kumar et al. 2014	x	x	Tikader et al. 1986
288.	*Turbinaria stellulata* (Lamarck, 1816)	x	x	x	Turner et al.2009; Venkataraman et al. 2003
289.	*Turbinaria undata* Bernard, 1896 (*nomen dubium*)	Pillai & Patel 1988	x	x	Mondal et al. 2012
Family DIPLOASTREIDAE Chevalier & Beauvais, 1987					
Genus *Diploastrea* Matthai, 1914					
290.	*Diploastrea heliopora* (Lamarck,1816)	Singh et al. 2003	x	Pillai 1971	Reddiah 1977
Family EUPHYLLIDAE Veron, 2000					
Genus *Euphyllia* Dana, 1846					
291.	*Euphyllia ancora* Veron & Pichon, 1980	x	x	x	Turner et al. 2009
292.	*Euphyllia cristata* Chevalier, 1971	x	x	x	Mondal et al. 2012
293.	*Euphyllia divisa* Veron & Pichon, 1979	x	x	x	Turner et al. 2009
294.	*Euphyllia glabrescens* (Chamisso & Eysenhardt, 1821)	x	x	Pillai 1967	Reddiah 1977
295.	*Euphyllia paraglabrescens* Veron, 2000	x	x	x	Mondal et al. 2015; Raghuraman et al. 2015
296.	*Euphyllia yaeyamaensis* (Sirai, 1980)	x	x	x	Turner et al. 2009
Genus *Catalaphyllia* Wells, 1971					
297.	*Catalaphyllia jardinei* (Saville-Kent, 1893)	x	x	x	Mondal et al. 2015; Raghuraman et al. 2015
Family FLABELLIDAE Bourne, 1905					
Genus *Flabellum* Lesson, 1831					
298.	*Flabellum* (*Flabellum*) *pavoninum* Lesson, 1831	Alcock 189) as *F. paripavonium* as of Pillai 1967, Venkataraman 2007			
299.	*Flabellum* (*Ulocyathus*) *deludens* Marenzeller, 1904	Alcock 1898 as *F. lacinatum from Bay of Bengal* as of Pillai 1967, Venkataraman 2007			
300.	*Flabellum* (*Ulocyathus*) *japonicum* Mosley, 1881	Alcock 1898 from Indian seas (as of Pillai, 1967)			
Genus *Javania* Duncan, 1876					
301.	*Javania cailleti* (Duchassaing & Michelotti, 1864)	Alcock 1898 Kerala coast & Alcock 1893 off Konkon coast, as of Pillai 1967			
Genus *Placotrochus* Milne Edwards & Haime, 1848					
302.	*Placotrochus laevis* Milne Edwards & Haime, 1848	x	Venkataraman 2007	x	Venkataraman 2007
Genus *Truncatoflabellum* Cairns, 1989					
303.	*Truncatoflabellum crassum* (Milne Edwards & Haime 1848)	x	Bourne 1905	x	x
304.	*Truncatoflabellum paripavoninum* (Alcock, 1894)	x	x	Venkatarama n 2007	Venkataraman 2007
305.	*Truncatoflabellum spheniscus* (Dana, 1846)	x	x	x	Mondal et al. 2017
306.	*Truncatoflabellum stokesii* (Milne Edwards & Haime, 1848)	x	Pillai & Jasmine 1995 off Quilon	x	Venkataraman 2007
Genus *Rhizotrochus* Milne Edwards & Haime, 1848					

307.	*Rhizotrochus typus* Milne Edwards & Haime, 1848	Venkataraman 2007 Bay of Bengal			
Family FUNGIACYATHIDAE Chavalier, 1987					
Genus *Fungiacyathus* Sars, 1872					
308.	*Fungiacyathus* (*Bathyactis*) *symmetricus* (Pourtalès, 1871)	x	x	x	Alcock 1898 as of Pillai 1972
309.	*Fungiacyathus* (*Fungiacyathus*) *stephanus* (Alcock, 1893)	x	x	Venkatarama n 2007	x
Family FUNGIIDAE Dana, 1846					
Genus *Cantharellus* Hoeksema & Best, 1984					
310.	*Cantharellus doederleini* (von Marenzeller, 1907)	x	x	x	Mondal et al. 2013; Raghunathan et al. 2015
311.	*Cantharellus jebbi* Hoeksema, 1993	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011; Mondal & Raghunatha 2017
Genus *Ctenactis* Verrill, 1864					
312.	*Ctenactis albitentaculata* (Hoeksema, 1989)	x	x	x	Ramakrishna et al. 2010; Raghuraman et al. 2012; 2015
313.	*Ctenactis crassa* (Dana, 1846)	x	x	x	Tikader et al. 1986; Ramakrishna et al. 2010
314.	*Ctenactis echinata* (Pallas, 1766)	x	x	x	Pillai 1967
315.	*Ctenactis triangularis* Mondal & Raghunathan, 2013 (taxon inquirendum)	x	x	x	Mondal & Raghunathan, 2013
Genus *Cycloseris* Milne Edwards & Haime, 1849					
316.	*Cycloseris cyclolites* (Lamarck, 1801)	x	Pillai 1967 Tuticorin, Kumar et al. 2019	Jeyabaskaran 2009	Tikader et al. 1986; Ramakrishna et al. 2010
317.	*Cycloseris costulata* (Ortmann, 1889)	x	x	Jeyabaskaran 2009	Tikader et al. 1986; Ramakrishna et al. 2010
318.	*Cycloseris curvata* (Hoeksema, 1989)	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2019
319.	*Cycloseris distorta* (Michelin, 1842)	x	x	x	Alcock 1893; Mondal et al. 2019
320.	*Cycloseris explanulata* (Van der Horst, 1922)	x	x	x	Turner et al. 2009
321.	*Cycloseris hexagonalis* (Milne Edwards & Haime, 1848)	x	x	x	Alcock 1893
322.	*Cycloseris fragilis* (Alcock, 1893)	x	x	x	Alcock 1893; Ramakrishna et al. 2010
323.	*Cycloseris sinensis* Milne Edwards & Haime, 1851	x	x	x	Alcock 1893; Ramakrishna et al. 2010
324.	*Cycloseris somervillei* (Gardiner, 1909)	x	x	Pillai 1971	Pillai 1972; Mondal et al. 2019
325.	*Cycloseris tenuis* (Dana, 1846)	x	x	Jeyabaskaran 2009	Ramakrishna et al. 2010; Mondal et al. 2015
326.	*Cycloseris vaughani* (Boschman, 1923)	x	x	x	Mondal et al. 2015, 2019

327.	*Cycloseris wellsi* Veron & Pichon, 1980	x	x	x	Mondal et al. 2015; Mondal & Raghunathan 2017
Genus *Danafungia* Wells, 1966					
328.	*Danafungia scruposa* (Klunzinger, 1879)	x	x	Caeiro 1999	Matthai 1924; Venkataraman et al. 2012
329.	*Danafungia horrida* (Dana, 1846)	x	x	Pillai 1971	Matthai 1924; Turner et al. 2009
Genus *Fungia* Lamarck, 1801					
330.	*Fungia fungites* (Linnaeus, 1758)	x	x	Pillai 1967	Pillai 1972
Genus *Halomitra* Dana, 1846					
331.	*Halomitra pileus* (Linnaeus, 1758)	x	x	x	Venkataraman et al. 2003; Ramakrishna et al. 2010
Genus *Heliofungia* Wells, 1966					
332.	*Heliofungia fralinae* (Nemenzo, 1955)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Raghuraman et al. 2013
Genus *Herpolitha* Eschscholtz, 1825					
333.	*Herpolitha limax* (Esper, 1797)	x	x	Suresh 1991	Pillai 1972; Rajan et al. 2010
Genus *Lithophyllon* Rehberg, 1892					
334.	*Lithophyllon concinna* (Verrill, 1864)	x	x	Caeiro 1999	Matthai 1924
335.	*Lithophyllon repanda* (Dana, 1846)	x	x	Sreenath et al. 2015	Tikader et al.1986
336.	*Lithophyllon scabra* (Döderlein, 1901)	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011, 2015
337.	*Lithophyllon spinifer* (Claereboudt & Hoeksema, 1987)	x	x	x	Ramakrishna et al. 2010; Venkataranman et al. 2012; Raghuraman et al. 2013
338.	*Lithophyllon undulatum* Rehberg, 1892	x	x	x	Turner et al. 2009
Genus *Lobactis* Verrill, 1864					
339.	*Lobactis scutaria* (Lamarck, 1801)	x	x	Pillai 1967	Tikader et al.1986
Genus *Pleuractis* Verrill, 1864					
340.	*Pleuractis granulosa* (Klunzinger, 1879)	x	x	Jeyabaskaran 2009	Turner et al. 2009; Rajan et al 2010
341.	*Pleuractis moluccensis* (Van der Horst, 1919)	x	x	x	Turner et al. 2009
342.	*Pleuractis paumotensis* (Stutchbury, 1833)	x	x	x	Mathai 1924; Venkataraman et al. 2012
343.	*Pleuractis seychellensis* (Hoeksema, 1993)	x	x	Jeyabaskaran 2009	Ramakrishna et al. 2010; Venkataraman et al. 2012
Genus *Podabacia* Milne Edwards & Haime, 1849					
344.	*Podabacia crustacea* (Pallas, 1766)	x	x	Pillai 1967	Ramakrishna et al. 2010; Venkataraman et al. 2012

345.	*Podabacia lankaensis* Veron, 2000	x	x	x	Turner et al. 2009; Ramakrishna et al. 2010
346.	*Podabacia motuporensis* Veron, 1990	x	x	x	Mondal et al. 2012
347.	*Podabacia sinai* Veron, 2000	x	x	x	Mondal et al. 2011
Genus *Polyphyllia* Blainville, 1830					
348.	*Polyphyllia talpina* (Lamarck, 1801)	x	x	Pillai 1989	Tikader et al. 1986
Genus *Sandalolitha* Quelch, 1884					
349.	*Sandalolitha dentata* Quelch, 1884	x	x	x	Turner et al. 2009
350.	*Sandalolitha robusta* (Quelch, 1886)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
Genus *Zoopilus* Dana, 1846					
351.	*Zoopilus echinatus* Dana, 1846	x	x	x	Mondal et al. 2012
Family LOBOPHYLLIIDAE Dai & Horng, 2009					
Genus *Acanthastrea* Milne Edwards & Haime, 1848					
352.	*Acanthastrea brevis* Milne Edwards & Haime, 1849	x	x	x	Mondal et al. 2013, 2015; Raghunathan 2015; Mondal & Raghuraman et al. 2017
353.	*Acanthastrea echinata* (Dana, 1846)*	Singh et al. 2003	Edward et al. 2007	Pillai 1971	Turner et al. 2009; Venkataraman et al. 2012
354.	*Acanthastrea hemprichii* (Ehrenberg, 1834)	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
355.	*Acanthastrea pachysepta* (Chevalier, 1975)	x	x	x	Mondal et al. 2013, 2015; Raghunathan 2015
356.	*Acanthastrea simplex* (Crossland, 1848) (*nomen dubium*)	Pillai & Patel 1988	x	x	x
Genus *Cynarina* Brüggemann, 1877					
357.	*Cynarina lacrymalis* (Milne Edwards & Haime, 1849)	x	x	x	Turner et al. 2009
Genus *Echinomorpha* Veron, 2000					
358.	*Echinomorpha nishihirai* (Veron, 1990)	x	x	x	Mondal et al. 2015; Raghunathan 2015
Genus *Echinophyllia* Klunzinger, 1879					
359.	*Echinophyllia aspera* (Ellis & Solander, 1786)	Satyanarayana & Ramakrishna 2009	x	x	Reddiah 1977
360.	*Echinophyllia echinata* (Saville-Kent, 1871)	x	x	x	Turner et al. 2009
361.	*Echinophyllia echinoporoides* Veron & Pichon,1980	x	x	x	Turner et al. 2009
362.	*Echinophyllia orpheensis* Veron & Pichon, 1980	x	x	x	Mondal et al. 2013, 2015; Mondal & Raghunathan 2017
Genus *Homophyllia* Brüggemann, 1877					
363.	*Homophyllia australis* (Milne Edwards & Haime, 1849)	x	x	x	Mondal et al. 2011

364.	*Homophyllia bowerbanki* (Milne Edwards, 1857)	Kumar et al. 2014	x	x	Venkataraman et al. 2012; Mondal et al. 2019
Genus *Lobophyllia* de Blainville, 1830					
365.	*Lobophyllia agaricia* (Milne Edwards & Haime, 1849)	x	x	x	Venkataraman et al. 2003, 2012
366.	*Lobophyllia diminuta* Veron, 1985	x	x	x	Mondal et al. 2011
367.	*Lobophyllia corymbosa* (Forskål, 1775)	x	Edward et al. 2007	Pillai 1971	Matthai 1924, Pillai 1972
368.	*Lobophyllia dentata* Veron, 2000	x	x	x	Mondal et al. 2013
369.	*Lobophyllia erythraea* (Klunzinger, 1879)	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011, 2015, 2019
370.	*Lobophyllia flabelliformis* Veron, 2000	x	x	x	Mondal et al. 2015; Mondal & Raghunathan 2017
371.	*Lobophyllia hassi* (Pillai & Scheer, 1976)	x	x	x	Mondal et al. 2015, 2017; Raghunathan 2015
372.	*Lobophyllia hemprichii* (Ehrenberg, 1834)	Kumar et al. 2017	x	Suresh 1991	Reddiah 1977
373.	*Lobophyllia ishigakiensis* (Veron, 1990)	x	x	x	Turner et al. 2009
374.	*Lobophyllia radians* (Milne Edwards & Haime, 1849)*	Pillai & Patel 1988	Matthai 1924	Pillai 1971	Tikader et al. 1986
375.	*Lobophyllia recta* (Dana, 1846)*	Singh et al. 2003	Matthai 1924, Venkataraman & Rajan, 2013	Pillai 1971	Matthai 1924, Pillai 1972
376.	*Lobophyllia robusta* Yabe & Sugiyama,1936	x	x	x	Ramakrishna et al. 2010; Venkataranman et al. 2012
377.	*Lobophyllia rowleyensis* (Veron, 1985)	x	x	x	Turner et al. 2009
378.	*Lobophyllia serrata* Veron, 2000	x	x	Jeyabaskaran 2009	x
379.	*Lobophyllia valenciennesii* (Milne Edwards & Haime, 1849)	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal & Raghunathan 2017
380.	*Lobophyllia vitiensis* (Brüggemann, 1877)	x	x	x	Venkataraman et al. 2012; Mondal et al. 2013, 2015
Genus *Micromussa* Veron, 2000					
381.	*Micromussa regularis* (Veron, 2000)	x	x	x	Mondal et al. 2011
Genus *Oxypora* Saville-Kent, 1871					
382.	*Oxypora crassispinosa* Nemenzo, 1979	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
383.	*Oxypora glabra* Nemenzo, 1959	x	x	x	Venkataraman et al. 2012; Mondal & Raghunathan 2017; Mondal et al. 2013, 2019
384.	*Oxypora lacera* (Verrill, 1864)	x	x	x	Turner et al. 2009; Venkataraman et al.

					2012
Genus *Sclerophyllia* Klunzinger, 1879					
385.	*Sclerophyllia maxima* (Sheppard & Salm, 1988)	x	x	x	Mondal et al. 2015
Family MERULINIDAE Verrill, 1865					
Genus *Astrea* Lamarck, 1801					
386.	*Astrea annuligera* Milne Edwards & Haime, 1849	Singh et al. 2003	x	x	Mondal et al. 2013
387.	*Astrea curta* Dana, 1846	x	x	Caeiro 1999	Turner et al. 2009
Genus *Caulastraea* Dana, 1846					
388.	*Caulastraea curvata* Wijsman-Best, 1972	x	x	x	Mondal et al. 2013
389.	*Caulastraea echinulata* (Milne Edwards & Haime, 1849)	x	x	x	Mondal et al. 2012
390.	*Caulastraea furcata* Dana, 1846	x	x	x	Mondal et al. 2015
Genus *Coelastrea* Verrill, 1866					
391.	*Coelastrea aspera* (Verrill, 1866)	x	Pillai 1967	Caeiro 1999	Mondal et al. 2013, 2015
392.	*Coelastrea palauensis* (Yabe & Sugiyama, 1936)	x	x	x	Mondal et al. 2012
Genus *Cyphastrea* Milne Edwards & Haime, 1848					
393.	*Cyphastrea agassizi* (Vaughan, 1907)	x	x	x	Mondal et al. 2013
394.	*Cyphastrea chalcidicum* (Forskal, 1775)	x	Pillai 1967	Suresh 1991	Mondal et al. 2015; Raghunathan 2015
395.	*Cyphastrea japonica* Yabe & Sugiyama, 1932	x	Edward et al. 2007	x	Ramakrishna et al. 2010; Mondal et al. 2015, 2019; Raghunathan 2015
396.	*Cyphastrea microphthalma* (Lamarck, 1816)	x	Pillai 1967, Venkataraman & Rajan 2013	Pillai 1989	Tikader et al. 1986
397.	*Cyphastrea ocellina* (Dana,1864)	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2015; Raghunathan 2015
398.	*Cyphastrea serailia* (Forskål, 1775)*	Pillai & Patel 1988	Pillai 1967	Pillai 1989	Mondal et al. 2015, 2019; Raghunathan 2015
Genus *Dipsastraea* Blainville, 1830					
399.	*Dipsastraea amicorum* (Milne Edwards & Haime, 1849)	Satyanarayana & Ramakrishna 2009	x	x	Mondal et al. 2011, 2013, 2015, 2019
400.	*Dipsastraea albida* (Veron 2000)	x	Venkataraman & Rajan 2013	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal et al. 2015
401.	*Dipsastraea danai* (Milne Edwards, 1857)	x	x	x	Mondal et al. 2015, 2019
402.	*Dipsastraea faviaformis* (Veron, 2000)	x	x	x	Mondal et al. 2015, 2019; Raghunathan 2015
403.	*Dipsastraea favus* (Forskål, 1775)*	Pillai & Patel 1988	Pillai 1967	Pillai 1971	Pillai 1972

404.	*Dipsastraea helianthoides* (Wells, 1954)	x	x	x	Mondal et al. 2011
405.	*Dipsastraea lacuna* (Veron, Turak & DeVantier, 2000)	Satyanarayana & Ramakrishna 2009	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
406.	*Dipsastraea laddi* (Wells, 1954)	x	x	x	Mondal et al. 2013, 2015, 2019; Raghunathan 2015
407.	*Dipsastraea laxa* (Klunzinger, 1879)	x	x	x	Mondal et al. 2015, 2019; Raghunathan 2015
408.	*Dipsastraea lizardensis* (Veron, Pichon & Wijsman-Best, 1977)	x	Venkataraman & Rajan 2013	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal et al. 2015, 2019
409.	*Dipsastraea marshae* (Veron, 2000)	x	x	x	Mondal et al. 2013
410.	*Dipsastraea matthaii* (Vaughan, 1918)	x	Krishnan et al. 2018	x	Mondal et al. 2011, 2013, 2019
411.	*Dipsastraea maxima* (Veron, Pichon & Wijsman-Best, 1977)	Singh et al. 2003	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal & Raghunathan 2017, Mondal et al. 2019
412.	*Dipsastraea pallida* (Dana, 1846)*	Pillai et al. 1979	Pillai 1967	Pillai 1971	Matthai 1924; Tikader et al. 1986; Venkataraman et al. 2012
413.	*Dipsastraea speciosa* (Dana, 1846)*	Pillai & Patel 1988	Pillai 1967	Pillai 1971	Reddiah 1977; Tikader et al. 1986; Venkataraman et al. 2012
414.	*Dipsastraea rotumana* (Gardiner, 1899)	x	Venkataraman & Rajan 2013	x	Tikader et al. 1986; Venkataraman et al. 2012
415.	*Dipsastraea rosaria* (Veron, 2000)	x	Krishnan et al. 2018	x	Mondal et al. 2012
416.	*Dipsastraea truncata* (Veron, 2000)	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
417.	*Dipsastraea veroni* (Moll & Best, 1984)	x	Krishnan et al. 2018	x	Mondal et al. 2013, 2015
418.	*Dipsastraea vietnamensis* (Veron, 2000)	x	x	x	Mondal et al. 2015
Genus *Echinopora* Lamarck, 1816					
419.	*Echinopora forskaliana* (Milne Edwards & Haime, 1849)	x	x	x	Mondal et al. 2015; Raghunathan 2015
420.	*Echinopora fruticulosa* Klunzinger, 1879	x	x	x	Venkataram et al. 2012; Mondal et al. 2013, 2015; Raghunathan 2015
421.	*Echinopora gemmacea* (Lamarck, 1816)	x	Pillai 1967	x	Turner et al. 2009; Venkataram et al. 2012
422.	*Echinopora horrida* Dana, 1846	x	x	x	Tikader et al. 1986; Venkataram et al. 2012

423.	*Echinopora hirsutissima* Milne Edwards & Haime, 1849	x	x	x	Turner et al. 2009; Venkataram et al. 2012
424.	*Echinopora lamellosa* (Esper, 1795)	x	Pillai 1967	Pillai 1989	Matthai 1924; Venkataram et al. 2012
425.	*Echinopora pacificus* Veron, 1990	x	x	x	Mondal et al. 2014, 2015; Mondal & Raghunathan 2017
Genus *Erythrastrea* Pichon, Scheer & Pillai, 1983					
426.	*Erythrastrea flabellata* Pichon, Scheer & Pillai, 1983	DeVantier et al. 2008	x	x	x
Genus *Favites* Link, 1807					
427.	*Favites abdita* (Ellis & Solander 1786)*	Singh et al. 2003	Pillai 1967	Pillai 1967	Pillai 1972; Venkataraman et al. 2012
428.	*Favites acuticollis* (Ortmann,1889)	x	x	x	Turner et al. 2009; Venkataraman et al. 2012
429.	*Favites chinensis* (Verrill, 1866)	Satyanarayana & Ramakrishna 2009	Krishnan et al. 2018	x	Venkataraman et al. 2012; Raghunathan 2015, 2019
430.	*Favites colemani* (Veron, 2000)	x	Venkataraman & Rajan 2013	x	Turner et al. 2009
431.	*Favites complanata* (Eherenberg, 1834)*	Pillai & Patel 1988	Venkataraman & Rajan 2013	Pillai 1989	Tikader et al. 1986; Venkataraman et al. 2012
432.	*Favites flexuosa* (Dana, 1846)*	Satyanarayana & Ramakrishna 2009	Krishnan et al. 2018	Pillai 1989	Tikader et al. 1986; Venkataraman et al. 2012
433.	*Favites halicora* (Eherenberg, 1834)*	Satyanarayana &Ramakrishna 2009	Pillai 1967	Pillai 1971	Pillai 1972; Venkataraman et al. 2012
434.	*Favites magnistellata* (Chevalier, 1971)	Pillai & Patel 1988	x	Caeiro 1999	Mondal et al. 2013
435.	*Favites melicerum* (Ehrenberg, 1834)*	Pillai & Patel 1988	Pillai 1967	Pillai 1971	Mondal et al. 2013
436.	*Favites micropentagona* Veron, 2002	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
437.	*Favites monticularis* Mondal, Raghunathan & Venkataraman, 2013	x	x	x	Mondal et al. 2013
438.	*Favites paraflexuosus* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2010a
439.	*Favites pentagona* (Esper, 1795)*	Satyanarayana & Ramakrishna 2009	Pillai 1967	Pillai 1971	Turner et al. 2009
440.	*Favites rotundata* Veron, Pichon & Wijsman-Best, 1977	x	x	x	Turner et al. 2009
441.	*Favites spinosa* (Klunzinger, 1879)	x	Krishnan et al. 2018	x	Ramakrishna et al. 2010; Mondal et al. 2010a; Venkataraman et al.

					2012
442.	*Favites stylifera* Yabe & Sugiyama, 1937	x	x	Pillai 1989	Mondal et al. 2015; Mondal & Raghunathan 2017
443.	*Favites vasta* (Klunzinger, 1879)	x	Venkataraman & Rajan 2013	x	Ramakrishna et al. 2010; Mondal et al. 2015, 2019
444.	*Favites valenciennesi* (Milne Edwards & Haime, 1849)	x	Pillai 1972, Venkataraman & Rajan 2013	Pillai 1989)	Pillai 1972
Genus *Goniastrea* Milne Edwards & Haime, 1848					
445.	*Goniastrea edwardsi* Chevalier,1971	x	Venkataraman & Rajan 2013	Caeiro 1999	Venkataraman et al. 2003; Turner et al. 2009
446.	*Goniastrea favulus* (Dana, 1846)	x	x	x	Mondal et al. 2015, 2019; Mondal & Raghunathan 2017
447.	*Goniastrea minuta* Veron, 2000	x	Krishnan et al. 2018	x	Turner et al. 2009; Venkataraman, 2012
448.	*Goniastrea retiformis* (Lamarck, 1816)	x	Pillai 1967	Pillai 1971	Reddiah 1977; Venkataraman, 2012
449.	*Goniastrea pectinata* (Ehrenberg, 1834)	Pillai & Patel 1988	Pillai 1967	x	Pillai 1967, Reddiah 1977
450.	*Goniastrea stelligera* (Dana, 1846)*	Venkataraman et al. 2004	Pillai 1967	Pillai 1971	Tikader et al. 1986
Genus *Hydnophora* Fischer von Waldheim, 1807					
451.	*Hydnophora bonsai* Veron, 1990	x	x	x	Mondal et al. 2012
452.	*Hydnophora exesa* (Pallas, 1766)*	Pillai & Patel 1988	Pillai 1967	Suresh 1991	Mathai 1924
453.	*Hydnophora grandis* Gardiner, 1904	x	Pillai 1967	x	Rajan et al. 2010
454.	*Hydnophora microconos* (Lamarck, 1816)	x	Pillai 1967	Pillai 1967	Tikader et al.1986
455.	*Hydnophora pilosa* Veron, 1985	Sreenath 2015	x	x	Turner et al. 2009
456.	*Hydnophora rigida* (Dana, 1846)	x	x	x	Reddiah 1977
Genus *Leptoria* Milne Edwards & Haime, 1848					
457.	*Leptoria irregularis* Veron, 1990	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2013, 2019
458.	*Leptoria phrygia* (Ellis & Solander, 1786)	x	Pillai 1967	Pillai 1971	Tikader et al.1986
Genus *Merulina* Ehrenberg, 1834					
459.	*Merulina ampliata* (Ellis & Solander, 1786)	x	Pillai 1967	Pillai 1971	Pillai 1972
460.	*Merulina scabricula* Dana, 1846	x	x	x	Turner et al. 2009
Genus *Mycedium* Milne Edwards & Haime, 1851					
461.	*Mycedium elephantotus*(Pallas, 1766)	Pillai & Patel 1988	Pillai 1967	x	Tikader et al. 1986
462.	*Mycedium robokaki*Moll & Borel-Best, 1984	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal & Raghunathan 2017
Genus *Oulophyllia* Milne Edwards & Haime, 1848					
463.	*Oulophyllia bennettae* (Veron, Pichon, & Best, 1977)	x	x	Jeyabaskaran 2009	Ramakrishna et al. 2010; Venkataraman

					et al. 2012
464.	*Oulophyllia crispa* (Lamarck, 1816)	x	Krishnan et al. 2018	Suresh 1991	Venkataraman et al. 2003, 2012; Mondal et al. 2015
465.	*Oulophyllia levis* (Nemenzo, 1959)	x	x	x	Venkataraman et al. 2012; Mondal et al. 2015, 2017
Genus *Paragoniastrea* Huang, Benzoni & Budd, 2014					
466.	*Paragoniastrea australensis* (Milne Edwards, 1857)	x	x	Pillai 1989	Reddiah 1977
467.	*Paragoniastrea russelli* (Wells, 1954)	x	Venkataraman & Rajan 2013	Caeiro 1999	Mondal et al. 2013; Raghunathan 2015
Genus *Paramontastraea* Huang & Budd, 2014					
468.	*Paramontastraea peresi* (Faure & Pichon, 1978)	x	Krishnan et al. 2018	x	Venkataraman et al. 2012; Mondal & Raghunathan 2017
469.	*Paramontastraea salebrosa* (Nemenzo, 1959)	x	x	x	Mondal et al. 2013
Genus *Pectinia* Blainville, 1825					
470.	*Pectinia alcicornis* (Saville-Kent, 1871)	x	x	x	Turner et al. 2009
471.	*Pectinia lactuca* (Pallas, 1766)	x	x	Jeyabaskaran 2009	Tikader et al.1986
472.	*Pectinia paeonia* (Dana, 1846)	x	x	x	Venkataraman et al. 2003
473.	*Pectinia teres* Nemenzo & Montecillo, 1981	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012; Mondal et al. 2019
Genus *Platygyra* Ehrenberg, 1834					
474.	*Platygyra acuta* Veron, 2000	x	x	x	Turner et al. 2009
475.	*Platygyra carnosus* Veron, 2000	x	x	x	Mondal et al. 2011; Mondal et al. 2019
476.	*Platygyra crosslandi* (Matthai, 1928)	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan 2017; Mondal et al. 2019
477.	*Platygyra contorta* Veron, 1990	x	x	x	Mondal et al. 2012
478.	*Platygyra daedalea* (Ellis & Solander, 1786)*	Singh et al. 2003	Venkataraman & Rajan 2013	Pillai 1989	Reddiah 1977
479.	*Platygyra lamellina* (Ehrenberg, 1834)*	Singh et al. 2003	Matthai 1924	Pillai 1967	Pillai 1967
480.	*Platygyra pini* Chevalier, 1975	Satyanarayana & Ramakrishna 2009	x	Jeyabaskaran 2009	Turner et al. 2009
481.	*Platygyra ryukyuensis* Yabe & Sugiyama, 1936	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan 2017
482.	*Platygyra sinensis* (Milne Edwards & Haime,1849)*	Pillai & Patel 1988	Venkataraman & Rajan 2013	Pillai 1989	Reddiah 1977
483.	*Platygyra verweyi* Wijsman-Best, 1976	x	Krishnan et al. 2018	x	Turner et al. 2009
484.	*Platygyra yaeyamaensis* (Eguchi & Shirai, 1977)	x	x	x	Mondal et al. 2012
Genus *Scapophyllia* Milne Edwards & Haime, 1848					

485.	*Scapophyllia cylindrica* Milne Edwards & Haime, 1849	x	x	x	Tikader et al.1986
Genus *Trachyphyllia* Milne Edwards & Haime, 1849					
486.	*Trachyphyllia geoffroyi* (Audouin, 1826)	x	x	x	Tikader et al.1986
Family MUSSIDAE Ortmann, 1890					
Genus *Isophyllia* Milne Edwards & Haime, 1851					
487.	*Isophyllia sinuosa* (Ellis & Solander, 1786)	x	x	x	Mondal & Raghunathan 2016
488.	*Isophyllia rigida* (Dana, 1846)	x	x	x	Mondal et al. 2012
Family OCULINIDAE Grey, 1847					
Genus *Galaxea* Oken, 1815					
489.	*Galaxea astreata* (Lamarck, 1816)	x	Pillai 1967	Caeiro 1999	Pillai 1967
490.	*Galaxea acrhelia* Veron, 2000	x	x	x	Turner et al. 2009
491.	*Galaxea cryptoramosa* Fenner & Veron, 2000	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan 2011; Mondal et al. 2019
492.	*Galaxea fascicularis* (Linnaeus, 1767)	x	Pillai 1967	Pillai 1967	Matthai 1924; Pillai 1972
Genus *Madrepora* Linnaeus, 1758					
493.	*Madrepora oculata* (Linnaeus, 1758)	Alcock (1898) from Kerala coast, Alcock (1893) off Konkan coast (as per Pillai 1967; Venkataraman 2007			
Family POCILLOPORIDAE Grey, 1842					
Genus *Pocillopora* Lamarck, 1816					
494.	*Pocillopora ankeli* Scheer & Pillai, 1974	x	x	x	Tikader et al. 1986
495.	*Pocillopora brevicornis* Lamarck, 1816	x	x	x	Pillai 1967
496.	*Pocillopora damicornis* (Linnaeus, 1758)*	Satyanarayana & Ramakrishna 2009	Krishnan et al. 2018, Gravely 1941 Chennai coast	Pillai 1967	Pillai 1967
497.	*Pocillopora elegans* Dana, 1846	x	Pillai 1967	x	Reddiah 1977
498.	*Pocillopora grandis* Dana, 1846	x	Pillai 1967	Pillai 1971	Mondal & Raghunathan 2017
499.	*Pocillopora kelleheri* Veron, 2002	x	x	x	Ramakrishna et al. 2010; Mondal & Raghunathan. 2017
500.	*Pocillopora ligulata* Dana, 1846	x	x	Pillai 1971	Venkataraman et al. 2003; Ramakrishna et al. 2010; Venkataraman et al. 2012
501.	*Pocillopora meandrina* Dana, 1846	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
502.	*Pocillopora molokensis* Vaughan, 1907	x	x	Suresh 1991	x
503.	*Pocillopora verrucosa* (Ellis & Solander, 1786)	x	Pillai 1967e	Pillai 1967	Pillai 1967e; Mondal & Raghunathan. 2017
Genus *Seriatopora* Lamarck, 1816					
504.	*Seriatopora aculeata* Quelch,1886	x	x	x	Ramakrishna et al. 2010, Mondal et al. 2010a
505.	*Seriatopora caliendrum* Ehrenberg,	x	x	x	Turner et al. 2009

	1834				
506.	*Seriatopora crassa* Quelch, 1886 (*nomen dubium*)	x	x	x	Tikader et al. 1986
507.	*Seriatopora guttata* Veron, 2000	x	x	x	Mondal et al. 2012
508.	*Seriatopora hystrix* Dana, 1846	x	x	x	Tikader et al. 1986
509.	*Seriatopora stellata* Quelch, 1886	x	x	x	Tikader et al. 1986
Genus *Stylophora* Schweigger, 1820					
510.	*Stylophora danae* Milne Edwards & Haime, 1850	x	x	x	Mondal et al. 2015
511.	*Stylophora pistillata* Esper, 1797	x	x	Pillai 1967e	Reddiah 1977
512.	*Stylophora subseriata* (Ehrenberg, 1834)	x	x	x	Mondal et al. 2012, 2015
513.	*Stylophora wellsi* Scheer, 1964	x	x	x	Mondal et al. 2015
Family PORITIDAE Grey, 1842					
Genus *Bernardpora* Kitano & Fukami, 2014					
514.	*Bernardpora stutchburyi* Wells, 1955	Pillai & Patel 1988	Pillai 1967b	x	x
Genus *Goniopora* de Blainville, 1830					
515.	*Goniopora albiconus* Veron, 2000	x	x	x	Mondal et al. 2012
516.	*Goniopora burgosi Nemenzo, 1955*	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2019
517.	*Goniopora columna* Dana,1846	Singh et al. 2003	x	x	Reddiah 1977
518.	*Goniopora djiboutiensis* Vaughan, 1907	Sreenath 2015	Pillai 1967	x	Raghuraman et al. 2012[#]
519.	*Goniopora eclipsensis* Veron & Pichon, 1982	x	x	x	Mondal et al. 2015
520.	*Goniopora fruticosa* Saville-Kent, 1891	x	x	x	Mondal et al. 2019
521.	*Goniopora lobata* Milne Edwards & Haime,1860	x	x	Caeiro 1999	Ramakrishna et al. 2010; Venkataraman et al. 2012
522.	*Goniopora norfolkensis* Veron & Pichon,1982	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
523.	*Goniopora paliformis* (Veron, 2000)	x	x	x	Raghuraman et al. 2012[#]
524.	*Goniopora palmensis* Veron & Pichon, 1982	x	x	x	Mondal et al. 2012
525.	*Goniopora pandoraensis* Veron & Pichon, 1982	x	x	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
526.	*Goniopora pearsoni* Veron, 2000		x	x	Raghunathan 2015; Mondal et al. 2015, 2019
527.	*Goniopora pedunculata* Quoy & Gaimard, 1833*	Pillai & Patel 1988	Venkataraman & Rajan 2013	Pillai 1971	Mondal et al. 2013
528.	*Goniopora pendulus* Veron, 1985	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011
529.	*Goniopora planulata* (Ehrenberg,1834)	Pillai & Patel 1988	Pillai 1967	x	Tikader et al. 1986
530.	*Goniopora somaliensis* Vaughan, 1907	x	x	x	Mondal et al. 2019
531.	*Goniopora stokesi* Milne Edwards &	Sreenath	Pillai 1967	Pillai 1971	Reddiah 1977

	Haime, 1851*	2015	Palk bay		
532.	*Goniopora savignyi* (Dana, 1846)	x	x	x	Mondal et al. 2019
533.	*Goniopora tenella* (Quelch, 1886)	x	x	x	Mondal et al. 2012
534.	*Goniopora tenuidens* (Quelch, 1886)	x	x	x	Reddiah 1977
Genus *Stylaraea* Edwards & Haime, 1851					
535.	*Stylaraea punctata*(Linnaeus, 1758)	x	Raghuram & Venkataraman, 2006	x	x
Genus *Porites* Link, 1807					
536.	*Porites annae* Crossland, 1952	x	Raghuram & Venkataraman, 2005	Sreenath et al. 2015	Turner et al.2009; Rajan et al. 2010
537.	*Porites arnaudi* Reyes-Bonilla & Carricart Ganivet, 2000	x	Geetha & Kumar 2012	x	Ramakrishna et al. 2010; Venkataraman et al. 2012
538.	*Porites australiensis* Vaughan, 1918	x	x	Sreenath et al. 2015	Mondal et al. 2016
539.	*Porites cumulatus* Nemenzo,1955	x	x	x	Raghuraman et al. 2012[#]
540.	*Porites compressa* Dana, 1846*	Pillai & Patel 1988	Pillai 1967	Caeiro 1999	Venkataraman et al. 2012
541.	*Porites cylindrica* Dana, 1846	x	x	Pillai 1967	Raghuram & Venkataraman, 2005
542.	*Porites densa* Vaughan, 1918	x	x	x	Raghunathan et al. 2013; Mondal et al. 2015
543.	*Porites evermanni* Vaughan, 1907	x	x	x	Turner et al. 2009
544.	*Porites exserta* Pillai, 1967	x	Pillai 1967	x	x
545.	*Porites fragosa* Dana, 1846	x	Pillai 1967	x	x
546.	*Porites harrisoni* Veron, 2000	x	x	x	Ramakrishna et al. 2010; Raghuraman et al. 2013[#]
547.	*Porites heronensis* Veron, 1985	x	x	x	Ramakrishna et al. 2010; Sarkar & Ghosh 2013
548.	*Porites latistellata* Quelch, 1886	x	x	x	Rajan et al. 2010
549.	*Porites lichen* Dana, 1846*	Pillai & Patel 1988	Pillai 1967	Pillai 1989	Tikader et al. 1986
550.	*Porites lutea* Milne Edwards & Haime, 1851*	Pillai & Patel 1988	Pillai 1967, Venkataraman & Rajan 2013	Pillai 1971	Reddiah 1977
551.	*Porites lobata* Dana, 1846	x	Venkataraman & Rajan, 2013	Pillai 1989	Tikader et al. 1986
552.	*Porites mannarensis* Pillai, 1967	x	Pillai 1967	x	x
553.	*Porites mayeri* Vaughan, 1918	x	x	x	Mondal et al. 2015
554.	*Porites minicoiensis* Pillai, 1967	x	x	Pillai 1967b	x
555.	*Porites monticulosa* Dana,1846	x	x	x	Turner et al. 2009
556.	*Porites murrayensis* Vaughan, 1918	x	Pillai 1967b, Venkataraman & Rajan, 2013	Suresh 1991	Venkataraman et al. 2012; Mondal et al. 2019
557.	*Porites myrmidonensis* Veron, 1985	x	x	x	Ramakrishna et al. 2010
558.	*Porites nigrescens* Dana, 1848	x	x	Caeiro 1999	Reddiah 1977
559.	*Porites nodifera* Klunzinger, 1879	x	Edward et al.	x	Raghunathan et al.

			2007		2015; Mondal et al. 2019
560.	*Porites rus* (Forskål, 1775)	x	x	Pillai 1989 as	Venkataraman et al. 2003; Venkataraman et al. 2012
561.	*Porites sillimaniani* Nemenzo, 1976	x	x	x	Mondal et al. 2019[#]
562.	*Porites solida* (Forskal, 1775)*	Singh et al. 2003	Pillai 1967	Pillai 1971	Pillai 1967
563.	*Porites somaliensis* Gravier, 1911	x	Pillai 1967	Pillai 1971	Raghuraman et al. 2012[#]
564.	*Porites stephensoni* Crossland, 1952	x	x	x	Rajan et al. 2010
565.	*Porites vaughani* Crossland, 1952	x	x	Jeyabaskaran 2009	Mondal et al. 2013
Family PSAMMOCORIDAE Chevalier & Beauvais, 1987					
Genus *Psammocora* Dana, 1846					
566.	*Psammocora contigua* (Esper, 1794)	x	x	Pillai 1967	Reddiah 1977,
567.	*Psammocora digitata* Milne Edwards & Haime, 1851	Pillai & Patel 1988	x	Pillai 1989	Turner et al. 2009
568.	*Psammocora haimiana* Milne Edwards & Haime, 1851	x	x	Pillai 1971	Turner et al. 2009
569.	*Psammocora nierstraszi* Van der Horst, 1921	x	x	x	Mondal et al. 2012
570.	*Psammocora profundacella* Gardiner, 1898	x	x	Pillai 1989	Matthai 1924a, Turner et al. 2009
Family SCLERACTINIA *incertae sedis*					
Genus *Leptastrea* Milne Edwards & Haime, 1849					
571.	*Leptastrea aequalis* Veron, 2000	x	Venkataraman & Rajan 2013	x	Mondal et al. 2015, 2017, 2019
572.	*Leptastrea bottae* (Milne Edwards & Haime, 1849)	x	x	Pillai 1971	Mondal et al. 2013
573.	*Leptastrea pruinosa* Crossland, 1952	x	x	x	Raghunathan 2015; Mondal et al. 2017
574.	*Leptastrea purpurea* (Dana, 1846)*	Pillai & Patel 1988	Pillai 1967, Venkataraman & Rajan 2013	Pillai 1971	Tikader et al.1986
575.	*Leptastrea transversa* Klunzinger, 1879*	Pillai & Patel 1988	Pillai 1967	Pillai 1971	Turner et al. 2009; Mondal et al. 2011
Genus *Oulastrea* Milne Edwards & Haime, 1848					
576.	*Oulastrea crispata* (Lamarck, 1816)	x	x	x	Pillai 1967
Genus *Pachyseris* Milne Edwards & Haime, 1849					
577.	*Pachyseris foliosa* Veron, 1990	x	x	x	Ramakrishna et al. 2010; Mondal et al. 2011
578.	*Pachyseris gemmae* Nemenzo, 1955	x	x	x	Reddiah 1977 Venkataraman et al. 2003
579.	*Pachyseris rugosa* (Lamarck, 1801)	x	Pillai 1967	Jeyabaskaran 2009	Tikader et al. 1986
580.	*Pachyseris speciosa* (Dana, 1846)	x	x	Caeiro 1999	Tikader et al. 1986
Genus *Physogyra* Quelch, 1884					
581.	*Physogyra lichtensteini* (Milne Edwards & Haime, 1851)	x	x	Jeyabaskaran 2009	Tikader et al.1986
Genus *Plesistrea* Milne Edwards & Haime, 1848					
582.	*Plesiastrea versipora* (Lamarck, 1816)*	Pillai & Patel 1988	Venkataraman & Rajan 2013	Pillai 1971	Tikader et al.1986
Genus *Plerogyra* Milne Edwards & Haime, 1848					

583.	*Plerogyra sinuosa* (Dana, 1846)	x	x	x	Tikader et al. 1986
584.	*Plerogyra simplex* Rehberg, 1892	x	x	x	Mondal et al. 2011
Family SIDERASTREIDAE Vaughan & Wells, 1943					
Genus *Pseudosiderastrea* Yabe & Sugiyama, 1935					
585.	*Pseudosiderastrea tayamai* Yabe & Sugiyama, 1935	Pillai & Patel 1988	x	x	Tikader et al. 1986
Genus: *Siderastrea* Blainville, 1830					
586.	*Siderastrea savignyana* Milne Edwards & Haime, 1850	Pillai & Patel 1988	Pillai 1967	x	Pillai 1967
Family RHIZANGIIDAE d'Orbigny, 1951					
Genus *Astrangia* Milne Edwards & Haime, 1848					
587.	*Astrangia* Sp.	Anil & Wagh, 1984 reported from Goa			
Genus *Cladangia* Milne Edwards & Haime, 1851					
588.	*Cladangiaexusta* Lütken, 1873	Pillai 1967d reported from off Cochin water			
Genus *Culicia* Dana, 1846					
589.	*Culicia rubeola* (Quoy & Gaimard, 1833)	x	Pillai 1967	x	Tikader et al. 1986

***** Species are present in all the coral reefs of GoK, GoMBR, LKD, A&N. #species distribution records need validation.

Annotated list of erroneous records of scleractinian species thatexcluded in the present checklist:

ACROPORIDAE

1. ***Acropora akajimensis*Veron, 1990:** Mondal et al. (2014) reported this species from A&N Islands. This is a synonymy of *Acropora donei* (Veron and Wallace, 1984) as of Hoeksema and Cairns (2018).
2. ***Acropora armata*(Brook, 1892):** The inclusion of this species is based on the report of Reddiah (1977) from the A&N Island, which is a synonymy of *Acropora cytherea*(Dana, 1846) as of Hoeksema and Cairns (2018).
3. ***Acropora azurea* Veron and Wallace, 1894:** This species is mentioned by MOEF (2015) from the A&N Island, which is a synonymy of *Acropora nana* (Studer, 1878) as of Hoeksema and Cairns (2018).
4. ***Acropora brueggemanni*(Brook, 1893)**: This species reported by Reddiah (1977) in A&N Islands, is an old combination of *Isopora brueggemanni* (Brook, 1893) as of Hoeksema and Cairns (2018).
5. ***Acropora calamaria* (Brook 1892):** This species is recorded by Reddiah (1977) from the A&N Islands, which is synonymy of *Acropora valida* (Dana, 1846) as of Hoeksema and Cairns (2018).

6. ***Acropora caroliana* Nemenzo, 1976:** This report is by Mondal et al. (2013) in the A&N Islands, which is wrong spelling of *Acropora carolinianaNemenzo*, 1976 as of Hoeksema and Cairns (2018).
7. ***Acropora conferta* (Quelch, 1886):** This species described by Pillai (1967, 1971) from the GoMBR, and the Lakshadweep, is synonymy of *Acropora hyacinthus* (Dana, 1846) as of Hoeksema and Cairns (2018).
8. ***Acropora conigera*(Dana, 1846):** Reddiah (1977) reported this species in the A&N Islands, which is synonymy of *Acropora robusta* (Dana,1846) as of Hoeksema and Cairns (2018).
9. ***Acropora copiosa*Nemenzo, 1967:** Raghuraman et al. (2012) and Mondal et al. (2013) recorded this species from the A&N Islands, which is synonymy of *Acropora muricata* (Linnaeus, 1758) as of Hoeksema and Cairns (2018).
10. ***Acropora corymbosa* (Lamarck, 1816):** This record is based onReddiah (1977), and Pillai (1971) from the A&N Islands is synonymy of *Acropora cytherea* (Dana, 1846) as of Hoeksema and Cairns (2018).
11. ***Acropora crateriformes*(Gardiner, 1898):** Mondal et al. (2014) described this species from the A&N Islands, is an old combination of *Isopora crateriformes* (Gardiner, 1898) as of Hoeksema and Cairns (2018).
12. ***Acropora cuneata* (Dana, 1846):** The inclusion of this record is based on Pillai (1967) from the GoMBR and Raghuraman et al. (2012) in the A&N Islands, is an old combination of *Isopora cuneata* (Dana, 1846) as of Hoeksema and Cairns (2018).
13. ***Acroporaefflorescens* (Dana, 1846):** The inclusion of this record is based on Pillai (1971) and Mondal et al. (2014) from the Lakshadweep and the A&N Islands respectively, is synonymy of *Acropora cytherea* (Dana, 1846) as of Hoeksema and Cairns (2018).
14. ***Acropora elizabethensis*Veron, 2000:** Raghuraman et al. (2012, 2013) reported this species from the A&N Islands, is synonymy of *Isopora elizabethensis* (Veron, 2000) as of Hoeksema and Cairns (2018).
15. ***Acropora formosa*(Dana, 1846):** This record is based on work of Pillai (1967) from the A&N Islands, the Lakshadweep and the GoMBR, also in subsequent publication of Raghuraman et al. (2012) and Mondal et al. (2013) from A&N, is original combination, basionym of *Acropora muricata* (Linnaeus, 1758) as reported by Venkataraman et al. 2003 as of Hoeksema and Cairns (2018).

Moreover, Veron 2000 pointed out that Wallace (1999) has used the name *Acropora muricata* Linnaeus, 1758, to the type species of *Acropora*, to the Indo-Pacific species *A. formosa*. Others have suggested applying the name *muricata* to the Caribbean species *A. cervicornis*. Veron (2000) has also mentioned that the type specimen has not been found, geographic origin unknown, and the original description could equally apply to any large branching *Acropora* species. It is, therefore, Veron (2000) has opined that the application of the name *A. formosa* to *A. muricata* has no validity or meaningful reason. He has also convinced that the status of *A. muricata* as a type species does not alter *A. muricta*. Veron (2000) is convinced that the name *formosa* has unambiguously been applied to one of the best known and most studied species of all *Acropora*, changing it would create confusion where there previously was none. Veron (2000) has also mentioned changing the name from *A. formosa* to *A. muricata* cannot be accepted under the International Rules of Zoological Nomenclature. However,at present, Hoeksema and Cairns (2018) reverted to *A. muricata*.

16. ***Acropora inermis* (Brook, 1891):** The inclusion of this species is based on Raghuraman et al. (2012) from the A&N Islands, which is synonymy of *Acropora microphthalma* (Verrill, 1859) as of Hoeksema and Cairns (2018).
17. ***Acropora irregularis*(Brook, 1892):** This species is recorded by Reddiah 1977, Raghuraman et al. (2012), and Mondal et al. (2013) from the A&N Islands, is synonymy of *Acropora abrotanoides* (Lamarck,1816) as of Hoeksema and Cairns (2018).
18. ***Acropora hebes* (Dana, 1846):** This species recorded by Patterson et al. (2007) in the GoMBR, which is synonymy of *Acroporaaspera* (Dana,1846) as of Hoeksema and Cairns (2018).
19. ***Acropora massawensis*von Marenzeller, 1907:** The inclusion of this species based on Raghuraman et al. (2012) and Mondal et al. (2013) in the A&N Islands, is synonymy of *Acropora polystoma* (Brook, 1891) as of Hoeksema and Cairns (2018).
20. ***Acropora meridiana* Nemenzo, 1971:** Mondal et al. (2015) description of this species from the A&N Islands, is an old combination of *Isopora brueggemanni* (Brook, 1893) as of Hoeksema and Cairns (2018).

21. ***Acropora nobilis* (Dana 1846):** This species reported by Pillai (1967) from the GoMBR and the A&N Islands, is synonymy of *Acropora robusta* (Dana,1846) as of Hoeksema and Cairns (2018).
22. ***Acropora ocellata* (Klunzinger, 1879):** The inclusion of this record by Raghunathan et al. (2013) in the A&N Islands, is synonymy of *Acropora humilis* (Dana, 1846) as of Hoeksema and Cairns (2018).
23. ***Acropora pacifica*(Brook)**: This species was reported by Reddiah (1977) from the A&N Islands, which is synonymy of *Acropora robusta* (Dana,1846) as of Hoeksema and Cairns (2018).
24. ***Acropora palifera*(Lamarck, 1816):** Reported by Pillai (1971) from the Lakshadweep, Reddiah (1977), Raghuraman et al. (2012) and Mondal et al. (2013) from the A&N islands, is s of *Isopora palifera* (Lamarck, 1816) as of Hoeksema and Cairns (2018).
25. ***Acropora pillaii* Patterson Edward et al. 2008:** Patterson et al. 2008 mentioned the presence of this species in the GoMBR, but this is anomen nudum, which is not a valid name. Hence, this species not included in the present checklist Hoeksema and Cairns (2018).
26. ***Acropora pinguis*Wells, 1950:** This species reported by Mondal et al. (2010) from the A&N Islands, is synonymy of *Acropora robusta* (Dana,1846) as of Hoeksema and Cairns (2018).
27. ***Acropora plana* Nemenzo, 1967**: The inclusion of this record by Ramakrishna et al. (2010) from the A&N Islands, is synonymy of *Acropora tenuis* (Dana, 1846) as of Hoeksema and Cairns (2018).
28. ***Acropora polymorpha*(Brook):** Reddiah (1977) reported from the A&N Islands, is synonymy of *Acropora florida* (Dana,1846) as of Hoeksema and Cairns (2018).
29. ***Acropora rambleri*Bassett-Smith, 1890:** This record based by Pillai (1971) from the Lakshadweep, and Tikader et al. (1986) from the A&N Islands, is synonymy of *Acropora speciosa* (Quelch, 1886) as of Hoeksema and Cairns (2018).
30. ***Acropora reticulata*(Brook, 1892):** Occurrence of this species recorded by Pillai (1971) from the Lakshadweep, is synonymy of *Acropora cytherea* (Dana, 1846) as of Hoeksema and Cairns (2018).
31. ***Acropora rosaria* (Dana, 1846):** This recorddescribed by Mondal et al. (2015) from the A&N Islands, is synonymy of *Acropora loripes* (Brook, 1892) as of Hoeksema and Cairns (2018).

32. ***Acropora schmitti* Wells, 1950:** The occurrence of this species reported by Mondal et al. (2014) from the A&N Islands, is synonymy of *Acropora dijitifera*(Dana, 1846) as of Hoeksema and Cairns (2018).
33. ***Acropora sekiseiensis*Veron, 1990:** The inclusion of this record by Raghuraman et al. (2012) and Mondal et al. (2013) from the A&N Islands, is synonymy of *Acropora horrida* (Dana, 1836) as of Hoeksema and Cairns (2018).
34. ***Acropora surculosa*(Dana, 1846):** This species reported by Reddiah (1977) from the A&N Islands, is synonymy of *Acropora hyacinthus* (Dana, 1846) as of Hoeksema and Cairns (2018).
35. ***Acropora syringoides* (Brook, 1892):** Pillai (1967) recorded this species from the GoMBR and the A&N Islands, which is synonymy of *Acropora longicyathus*(Milne Edwards, 1860) as of Hoeksema and Cairns (2018).
36. ***Acropora tenius*(Dana, 1846):** Raghuraman et al. (2012) reported this species from A&N Islands, which is a wrong spelling of *Acropora tenuis* (Dana, 1846) as of Hoeksema and Cairns (2018).
37. ***Acropora torresiana* Veron, 2000**: This species reported by Sukumaran et al. 2007 from GoMBR and Ramakrishna et al. 2010 from A&N Islands is unaccepted. Accepted name is *Acropora samoensis* (Brook, 1891) as of Hoeksema and Cairns (2018).
38. ***Acropora tutuilensis*Hoffmeister, 1925:** This record based on Mondal et al. (2014) from the A&N Islands, is synonymy of *Acropora abrotanoides* (Lamarck,1816) as of Hoeksema and Cairns (2018).
39. ***Acropora variabilis* (Klunzinger, 1879):** The occurrence of this species reported by Pillai (1972) from the A&N Islands, is synonymy of *Acropora valida*(Dana, 1846) as of Hoeksema and Cairns (2018).
40. ***Acropora vermiculata* Nemenzo, 1967**: Turner et al. (2009) accounted this record from the A&N Islands, which is synonymy of *Acropora sarmentosa*(Brook, 1892) as of Hoeksema and Cairns (2018).
41. ***Acropora wallaceae* Veron, 1990:** The Occurrence report based onMondal et al. (2014) from the A&N Islands, is synonymy of *Acropora samoensis*(Brook,1891) as of Hoeksema and Cairns (2018).
42. ***Anacropora pillai* (Patterson, 2006):** The inclusion of this record by Raghuraman et al. (2013) the A&N Islands is a wrong spelling of *Anacropora pillai* Veron, 2000 as of Hoeksema and Cairns (2018).

43. ***Montipora composita*Crossland, 1952:** This species reported from the GoMBR (Pillai 1967) and the A&N Islands (Reddiah 1977), is synonymy of *Montipora aequituberculata* Bernard,1897 as of Hoeksema and Cairns (2018).
44. ***Montipora divericata*Brüggemann, 1879:** Reportedfrom the GoMBR (Bernard 1897), is synonymy of *Montipora digitata* (Dana, 1846) as of Hoeksema and Cairns (2018).
45. ***Montipora foveolate* (Dana, 1846)***:* Reported from Lakshadweep Island by Jeyabaskaran 2007 is the wrong spelling of *Montipora feveolata* (Dana, 1846) as of Hoeksema and Cairns (2018).
46. ***Montipora fruiticosa*Bernard, 1897:** Reddiah (1977) recorded this species from the A&N Islands, which is synonymy of *Montipora digitata* (Dana, 1846) as of Hoeksema and Cairns (2018).
47. ***Montipora subtilis* Bernard, 1897:** Pillai (1967) reported this species from GoMBR, is synonymy of *Montipora millepora* Crossland, 1952 as of Hoeksema and Cairns (2018).
48. ***Montipora turgescens* (Dana):** Tikader et al. (1986) included this species from the A&N Islands, which is wrong reference of *Montipora turgescens* Bernard, 1897 as of Hoeksema and Cairns (2018).

AGARICIIDAE

49. ***Agaricia fragilis* Dana, 1848**: Ramakrishna et al. 2010 misidentified from the Andaman Islands. This is an Atlantic species (Hoeksema and Cairns, 2018 and IUCN 2008). Hence, excluded from this checklist.
50. ***Leptoseris cucullata*(Ellis and Solander, 1786):** Raghuraman et al. (2012),Raghunathan and venkataraman (2012)and Mondal et al. (2013)reported from the A&N Islands, is previous combination of *Helioseris cucullata* (Ellis and Solander, 1786) as of Hoeksema, (2015) This is an Atlantic species (Hoeksema and Cairns, 2018), hence, excluded from the present checklist..
51. ***Pavona* (*Polyastra*) *obtusta*(Quelch, 1884)**: Reddiah (1977) recorded from the A&N Islands, is the previous combination of *Pavona venosa* (Ehrenberg, 1834) as of Hoeksema and Cairns (2018).
52. ***Pavona lata* Dana 1846:** Matthai (1924) documented from the A&N Islands, is synonymy of *Pavona decussata* (Dana, 1846) as of Hoeksema and Cairns (2018).
53. ***Pavona praetorta* (Dana 1846):** Matthai (1924) reported from the A&N Islands, is synonymy of *Pavona cactus* (Forskål, 1775) as of Hoeksema and Cairns (2018).

CARYOPHYLLIIDAE

54. ***Caryophyllia (Caryophyllia) clavus* (Scacchi, 1835):** This species reported by Alcock (1988) from the Kerala coast and Raghuraman et al. (2012) from the A&N Islands, is synonymy of *Caryophyllia (Caryophyllia) smithii* Stokes and Broderip, 1828 as of Hoeksema and Cairns, (2018).
55. ***Caryophyllia acanthocyathus* Milne Edwards and Haime, 1848:** Venkataraman (2006) erroneously included this record from Andaman Island, is a Subgenus as of Hoeksema and Cairns (2018).
56. ***Paracyathus caeruleus* Duncan, 1889:** Mondal et al. (2014) reported the occurrence of this species from the A&N Islands, is synonymy of *Paracyathus rotundatus* Semper, 1872 as of Hoeksema and Cairns (2018).
57. ***Paracyathus stokesi* Milne Edwards & Haime, 1848:** Venkatraman (2006), Mondal et al. (2015), Mondal and Raghunathan (2017) repoterted from the Andaman Islands. Which is a spelling mistake, accepted name is *Paracyathus stokesii* Milne Edwards & Haime, 1848.
58. ***Desmophyllum vitreum* Alcock 1898:** Alcock (1898) reported this species from the Kerala coast, which is a synonymy of *Javania cailleti* (Duchassaing and Michelotti, 1864) as of Hoeksema and Cairns (2018).
59. ***Solenosmilia jeffreyi* Alcock, 1898***:* Alcock (1898) reported this species from the Kerala coast. This is a synonym of the *Solenosmilia variabilis* Duncan, 1873as of Hoeksema and Cairns (2018).

COSCINARAEIDAE

60. ***Coscinaraea wellsi* Veron & Pichon, 1980:** Mondal et al. (2015) reported this species from the Middle and South Andaman Archipelago. However, it is an original combination, basionym of *Cycloseris wellsi* (Veron & Pichon, 1980).

DENDROPHYLLIIDAE

61. ***Dendrophyllia coarctata* Duncan, 1889**: This record included by Pillai (1986) from the GoMBR, which is synonymy of *Cladopsammia gracilis* (Milne Edwards and Haime, 1848) as of Hoeksema and Cairns (2018).
62. ***Dendrophyllia micrantha* (Ehrenberg, 1834):** Raghuraman et al. (2013) included this species. The original name is *Tubastraea micranthus* (Ehrenberg, 1834) as of Hoeksema and Cairns (2018).

63. ***Dendrophyllia micranthus*:** Tikader et al. (1986) reported in A&N Islands, is the wrong spelling of *Dendrophyllia micrantha*, which is asynonymy of *Tubastraea micranthus* (Ehrenberg, 1834) as of Hoeksema and Cairns (2018).
64. ***Diploria clivosa* (Ellis & Solander, 1786):** Krishnan et al.(2018) reported this species from the GoMBR. However, this is a Caribbean species as per the IUCN red list of threatened species (2008); therefore, we excluded this species from the present checklist.
65. ***Diploria strigosa*(Dana, 1846):** Raghuraman et al. (2012) reported from the Andaman Islands, is a new combination of *Pseudodiploria strigosa* (Dana, 1846) as of Hoeksema and Cairns (2018). However,*P. strigosa* (Dana, 1846) was reported from Andaman by Ramakrishna et al. 2010, which is Atlantic species (IUCN, 2008). Hence, this record is not listed.
66. ***Enallopsammia amphleioides*:** This species was reported by Tikader et al. (1986) from the A&N Islands, which is synonymy of *Enallopsammia rostrata* (Pourtalès, 1878) as of Cairns, (2010).
67. ***Enallopsammia marenzelleri*Zibrowius, 1973:** Tikader et al. (1986) recorded from the A&N Islands, is synonymy of *Enallopsammia pusilla* (Alcock, 1902) as of Hoeksema and Cairns (2018).
68. ***Heteropsammia geminata*Verrill, 1870:** Alcock (1893) and Pillai (1972) recorded from the A&N Islands, is synonymy of *Heteropsammia eupsammides* (Gray, 1849) as of Hoeksema and Cairns (2018).
69. ***Heteropsammia michelinii* Milne Edwards & Haime, 1848**: Tikader et al. (1986) reported from A&N and Pillai and Jasmine (1995) from off Quilon, synonymy of *Heteropsammia cochlea* (Spengler, 1781) as of Hoeksema and Cairns (2018).
70. ***Turbinaria veluta*Bernard, 1896:** This species was included by Tikader et al. (1986) from the A&N Islands, which is synonymy of *Turbinaria reniformis* Bernard, 1896 as of Hoeksema and Cairns (2018).

FLABELLIDAE

71. ***Flabellum crassum* Milne Edwards and Haime 1848:** Bourne (1905) reported this species from GoMBR, this is a synonym of*Truncatoflabellum crassum* (Milne Edwards and Haime 1848) as of Hoeksema and Cairns (2018).

FUNGIIDAE

72. ***Cantharellus noumeae* Hoeksema and Best, 1984:** This species is an endemic of New Caledonia and does not occur elsewhere. Hence, it is excluded from the present checklist.
73. ***Cycloseris colini* Veron, 2000:** Mondal et al. (2015, 2019) and Raghunathan et al. (2015) documented from the A&N Islands, is an original combination, the basionym of *Lithophyllon spinifer* (Claereboudt and Hoeksema, 1987) as of Hoeksema and Cairns (2018).
74. ***Cycloseris erosa* (Döderlein, 1901):** This record described by Ramakrishna et al. (2010) from the A&N Islands, is synonymy of *Cycloseris tenuis* (Dana, 1846) as of Hoeksema and Cairns (2018).
75. ***Cycloseris marginata* (Boschma, 1923):** The inclusion of this species is based on Raghunathan et al. (2013) from the A&N Islands, which is synonymy of *Cycloseris costulata* (Ortmann, 1889) as of Hoeksema and Cairns (2018).
76. ***Cycloseris mycoides* Alcock 1893:** Raghunathan et al. (2013) recorded from the A&N Islands, is synonymy of *Cycloseris sinensis* Milne Edwards and Haime, 1851 as of Hoeksema and Cairns (2018).
77. ***Cycloseris patelliformis*(Boschma, 1923):** Raghuraman et al. (2012) mentioned presence of this species in the A&N Islands, which is synonymy of *Cycloseris fragilis* (Alcock, 1893) as of Hoeksema and Cairns (2018).
78. ***Diaseris distorta*(Michelin, 1842):**Raghuraman et al. (2012) reported from the A&N Islands, is the previous combination of *Cycloseris distorta*(Michelin, 1842) as of Hoeksema and Cairns (2018).
79. ***Diaseris fragilis* Alcock 1893**: This report, based on Raghuraman et al. (2013) in the A&N Islands, is an original combination, basionym of *Cycloseris fragilis* Alcock, 1893 as of Hoeksema and Cairns (2018).
80. ***Fungia (Danafungia) corona*Döderlein, 1901:** Matthai (1924), Raghuraman et al. (2012) recorded from the A&N Islands, is a previous combination of *Danafungia scruposa* (Klunzinger, 1879) as of Hoeksema,and Cairns (2018).
81. ***Fungia (Danafungia) danai*Milne Edwards and Haime, 1851:** Matthai (1924) and Pillai (1971) included from the A&N Islands and Lakshadweep respectively, is the previous combination of *Danafungia horrida* (Dana, 1846) as of Hoeksema and Cairns (2018).

82. ***Fungia scruposa* Klunzinger, 1879**: Caeiro (1999) and Raghuraman et al. (2012) recorded from the Lakshadweep and the A&N Islands, respectively, which is an original combination, basionym of *Danafungia scruposa* (Klunzinger, 1879) as of Hoeksema and Cairns (2018).
83. ***Fungia (Danafungia) subrepanda*Döderlein, 1901:** Matthai (1924) recorded from the A&N Islands, is a junior synonym of *Danafungia scruposa* (Klunzinger, 1879) as of Hoeksema and Cairns (2018).
84. ***Fungia (Verrillofungia) concinna*Verrill, 1864:** Matthai (1924), and Caeiro (1999) reported from Andaman and Lakshadweep, respectively, is the previous combination of *Lithophyllon concinna* (Verrill, 1864) as of Hoeksema and Cairns (2018).
85. ***Fungia echinata*(Pallas, 1766):**Pillai (1967) described this species from the A&N Islands, is the previous combination of *Ctenactis echinata* (Pallas, 1766) as of Hoeksema and Cairns (2018).
86. ***Fungia fralinae*Nemenzo, 1955:** Raghuraman et al. (2012), included the A&N Islands, is an original combination, and basionym of *Heliofungia fralinae* (Nemenzo, 1955) as of Hoeksema and Cairns (2018).
87. ***Fungia granulosa* Klunzinger, 1879:**Jeyabaskaran (2009) reported from Lakshadweep, Turner et al. (2009) and Rajan et al. (2010) reported from the A&N Islands, is an original combination, and the basionym of *Pleuractis granulosa* (Klunzinger, 1879) as of Hoeksema and Cairns (2018).
88. ***Fungia klunzingeri* Döderlein, 1901**: Turner et al. (2009) recorded from the A&N Islands, is junior synonymy of *Danafungia horrid*a (Dana, 1846) as of Hoeksema and Cairns (2018).
89. ***Fungia molluccensis*Horst, 1919:** Turner et al. (2009) and Rajan et al. (2012) reported from the A&N Islands, is an original combination, the basionym of *Pleuractis moluccensis* (Van der Horst, 1919) as of Hoeksema and Cairns (2018).
90. ***Fungia paumotensis*Stuchbury, 1833:** Matthai (1924a) documented from the A&N Islands, is an original combination, the basionym of *Pleuractis paumotensis* (Stutchbury, 1833) as of Hoeksema and Cairns (2018).
91. ***Fungia puishani* Veron and DeVantier, 2000:** Mondal et al. (2012) reported from the A&N Islands, is a junior synonym of *Fungia fungites* (Linnaeus, 1758) as of Hoeksema and Cairns (2018).

92. ***Fungia repanda*Dana, 1846:** Tikader et al.1986, Mondal et al. (2013) reported from the A&N Islands, is an original combination, the basionym of *Lithophyllon repanda* (Dana, 1846) as of Hoeksema and Cairns (2018).
93. ***Fungia scabra* Döderlein, 1901:** Raghuraman et al. (2012) recorded from the A&N Islands, is the original combination, basionym of *Lithophyllon scabra* (Döderlein, 1901) as of Hoeksemaand Cairns (2018).
94. ***Fungia scutaria*, Lamarck 1801:** Pillai (1967) reported from Lakshadweep, Tikader et al.1986 and Mondal et al. 2013 from the A&N Islands, is the original combination, basionym of *Lobactis scutaria* (Lamarck, 1801) as of Hoeksema and Cairns (2018).
95. ***Fungia seychellensis*Hoeksema, 1993:** Jeyabaskaran (2009) reported from Lakshadweep, Raghuraman et al. 2012, from the A&N Islands, is an original combination, the basionym of *Pleuractis seychellensis* (Hoeksema, 1993) as of Hoeksema and Cairns (2018).
96. ***Fungia simplex* (Gardiner, 1905):** Raghuraman et al. (2013) recorded from the A&N Islands, is synonymy of *Ctenactis crassa* (Dana, 1846) as of Hoeksema and Cairns (2018).
97. ***Fungia spinifer*Claereboudt and Hoeksema, 1987:** Raghuraman et al. (2012) documented from the A&N Islands, is an original combination, the basionym of *Lithophyllon spinifer* (Claereboudt and Hoeksema, 1987) as of Hoeksema and Cairns (2018).
98. ***Fungia taiwanensis*Hoeksema and Dai, 1991:**Raghuraman et al. (2012) noted from the A&N Islands, is an original combination, basionym of *Pleuractis taiwanensis* (Hoeksema and Dai, 1991) as of Hoeksema and Cairns (2018).
99. ***Halomitra clavator* Höeksema, 1989:** Mondal and Raghunathan (2012) reported from the A&N Islands, but this species ispatchily distributed in a small range and is rare (IUCN, 2008). It is also an endemic species to Indonesia, Papua New Guinea, Philippines, and the Solomon Islands. Hence not included in this checklist.
100. ***Herpolitha weberi* (van der Horst, 1921):** Pillai (1972), Rajan et al. (2010) reported from the A&N Islands, is a junior synonym of *Herpolitha limax* (Esper, 1797) as of Hoeksema and Cairns (2018).
101. ***Herpitoglossa simplex* (Gardiner, 1905):** Tikader et al. (1986) noted this record from the A&N Islands, it is a misspelling of *Herpetoglossa simplex* (Gardiner,

1905), andis synonymy of *Ctenactis crassa* (Dana, 1846) as of Hoeksema and Cairns (2018).

FUNGIACYATHIDAE

102. ***Fungiacyathus symmetrica***: The inclusion of this record is based on the wrong spelling of *Fungiacyathus (Bathyactis) symmetricus* (Pourtalès, 1871) by Pillai (1972) from the A&N Islands as of Hoeksema and Cairns (2018).

LOBOPHYLLIDAE

103. ***Acanthastrea faviaformis* Veron, 2000:** Occurrence of this species mentioned by Mondal et al. (2015, 2019) in the A&N Islands. The record is a synonymized name of *Dipsastraea faviaformis* (Veron, 2000) as of Hoeksema and Cairns (2018).

104. ***Acanthastrea hillae* Wells, 1955:**Venkataraman et al. (2012) and Kumar et al. (2014) reported this species from A&N Islands and GoK respectively. It is a synonym of *Homophyllia bowerbanki* (Milne Edwards, 1857) as of Hoeksema and Cairns (2018).

105. ***Acanthastrea ishigakiensis* Veron, 1990:** This species recorded by Turner et al. (2009) in the A&N Islands, is basionym, anda previous combination of *Lobophyllia ishigakiensis* (Veron, 1990), as of Hoeksema and Cairns (2018).

106. ***Acanthastrea maxima* Sheppard and Salm, 1988:** The inclusion of this species in the A&N Islands by Mondal et al. (2015), is an original combination, the basionym of as *Sclerophyllia maxima* (Sheppard and Salm, 1988) as of Hoeksema and Cairns (2018).

107. ***Acanthastrea regularis* Veron, 2000:** The inclusion of this species is based on Raghuraman et al. (2013) in the A&N Islands, which is basionym, a previous combination of *Micromussa regularis* (Veron, 2000) as of Hoeksema and Cairns (2018).

108. ***Australomussa rowleyensis*Veron, 1985:** Turner et al. (2009) recorded from the A&N Islands, is basionym, and the previous combination of *Lobophyllia rowleyensis* (Veron, 1985) as of Hoeksema and Cairns (2018).

109. ***Lobophyllia dentatus* Veron, 2000:** Mondal et al. (2013) from the A&N Islands, is synonymy of *Lobophyllia dentata* Veron, 2000 as of Hoeksema and Cairns (2018).

110. ***Lobophyllia pachysepta* Chevalier, 1975**: Raghuraman et al. (2012) from the A&N Islands, is synonymy of *Acanthastrea pachysepta* (Chevalier, 1975) as of Hoeksema and Cairns (2018).

111. ***Lobophyllia serratus* Veron, 2000:** Jeyabaskaran (2009) reported this species from LakshawadeepIsland butwaswrongly spelled. Correct spelling is *Lobophyllia serrata* Veron, 2000, as of Hoeksema and Cairns (2018).

112. ***Symphyllia agaricia* Milne Edwards and Haime, 1849**: Raghuraman et al. (2012) reported from the A&N Islands, is synonymized name of *Lobophyllia agaricia* (Milne Edwards and Haime, 1849) as of Hoeksema and Cairns (2018).

113. ***Symphyllia erythraea* (Klunzinger, 1879):** Ramakrishna et al. (2010) from the A&N Islands, is the previous combination of *Lobophyllia erythraea*(Klunzinger, 1879) as of Hoeksema and Cairns (2018).

114. ***Symphyllia hassi* Pillai and Scheer, 1976:** Raghuraman et al. (2012) from the A&N Islands, is basionym, a previous combination of *Lobophyllia hassi* (Pillai and Scheer, 1976) as of Hoeksema and Cairns (2018).

115. ***Symphyllia nobilis* (Dana 1846):** Pillai (1989) from Lakshadweep, Tikader et al. (1986) from the A&N Islands, is synonymy of *Lobophyllia recta* (Dana, 1846) as of Hoeksema and Cairns (2018).

116. ***Symphyllia radians* Edwards & Haime, 1849:** This species was recorded byPillai and Patel 1988 from GoK, Matthai 1924 from GoMBR, Pillai 1971 from LKD, Tikader et al. 1986 from A&N Islands, which is a synonym of *Lobophyllia radians* (Milne Edwards & Haime, 1849) as of Hoeksema and Cairns (2018).

117. ***Symphyllia recta* (Dana, 1846):** Occurrence report of this species based on Singh et al. 2003 from GoK, Matthai 1924 and Venkataraman and Rajan, 2013 from GoMBR, Pillai 1971 from LKD, Matthai 1924, Pillai 1972 from A&N Islands, which is a synonym of*Lobophyllia recta* (Dana, 1846) as of Hoeksema and Cairns (2018).

118. ***Symphyllia valenciennesii* Milne Edwards and Haime,1849:** Ramakrishna et al. (2010) reported from the A&N Islands, is basionym anda previous combination of *Lobophyllia valenciennesii* (Milne Edwards and Haime, 1849) as of Hoeksema and Cairns (2018).

MERULINIDAE

119. ***Barabattoia amicorum*(Milne Edwards and Haime, 1849):** This record based on Satyanarayana and Ramakrishna (2009) at GoK and Mondal et al.

(2013), (2014) from the A&N Islands, is previous combination of *Dipsastraea amicorum* (Milne Edwards and Haime, 1849) as of Hoeksema and Cairns (2018).

120. ***Barabattoia laddi*(Wells, 1954):** The occurrence report based on Raghuraman et al. (2012) and Mondal et al. (2013) from the A&N Islands, is the previous combination of *Dipsastraea laddi* (Wells, 1954) as of Hoeksema and Cairns (2018).

121. ***Caulastrea curvata*Wijsman-Best, 1972:** The inclusion of this species by Mondal et al. (2013) from the A&N Islands, is synonymized name of *Caulastraea curvata* Wijsman-Best, 1972 as of Hoeksemaand Cairns(2018).

122. ***Favites bestae* Veron, 2000*:*** Mondal et al. (2013) from the A&N Islands, is synonymy of *Favites melicerum* (Ehrenberg, 1834) as of Hoeksema and Cairns(2018).

123. ***Favites russelli* (Wells, 1954):** Caeiro (1999) from Lakshadweep, Raghuraman et al. (2012), Mondal et al. (2013) from the A&N Islands and Venkataraman and Rajan 2013 from Palk Bay, is the previous combination of *Paragoniastrea russelli* (Wells, 1954) as of Hoeksemaand Cairns (2018).

124. ***Favites paraflexuosa* Veron, 2002**: This species reported from Andaman and Nicobar Islands by Ramakrishna et al. 2010 and Mondal et al. 2010a, is unaccepted because of wrong spelling (Hoeksema, and Cairns, 2018). The accepted name is *Favites paraflexuosus* Veron, 2000.

125. ***Goniastrea aspera* Verrill, 1866**: Caeiro (1999) reported from Lakshadweep, Mondal et al. (2013, 2015) from the A&N Islands, is an original combination, and the basionym of *Coelastrea aspera* (Verrill, 1866) as of Hoeksema and Cairns(2018).

126. ***Goniastrea australensis* (Milne Edwards, 1857):** Pillai (1989) described from the Lakshadweep, Raghuraman et al. (2012) reported from the A&N Islands, is a previous combination of *Paragoniastrea australensis* (Milne Edwards, 1857) as of Hoeksema and Cairns (2018).

127. ***Goniastrea benhami*Vaughan, 1917**: Reddiah (1977) recorded from the A&N Islands, is a synonym of *Paragoniastrea australensis* (Milne Edwards, 1857) as of Hoeksema and Cairns (2018).

128. ***Goniastrea hombroni* (Rosseau, 1854):** Pillai (1971) noted from the Lakshadweep, is a synonym of *Goniastrea stelligera* (Dana, 1846) as of Hoeksema and Cairns(2018).

129. ***Goniastrea incrustans*** **Duncan, 1889**: Pillai (1967) reported from the GoMBR, is a synonym of *Coelastrea aspera* (Verrill, 1866) as of Veron et al. (1977) and Hoeksema and Cairns (2018)

130. ***Goniastrea palauensis*****(Yabe and Sugiyama, 1936)**: Mondal et al. (2012) recorded from the A&N Islands, is the previous combination of *Coelastrea palauensis* (Yabe and Sugiyama, 1936) as of Hoeksema and Cairns (2018).

131. ***Goniastrea peresi*****(Faure and Pichon, 1978)**: Venkataraman et al. (2012), Mondal and Raghunathan (2017) noted from the A&N Islands and Krishnan et al. 2018 from the GoMBR,which is the previous combination of *Paramontastraea peresi* (Faure and Pichon, 1978) as of Hoeksema and Cairns (2018).

132. ***Goniastrea planulata*****Milne Edwards and Haime, 1849:** Reddiah (1977) reported from the A&N Islands, is a synonym of *Goniastrea pectinata* (Ehrenberg, 1834) as of Hoeksema and Cairns (2018).

133. ***Merulina laxa*** **Dana 1846**: Reddiah (1977) recorded from the A&N Islands, is a synonym of *Hydnophora rigida* (Dana, 1846) as of Hoeksema and Cairns (2018).

134. ***Mycedium tubifex*** **(Dana, 1846):** Pillai (1967) reported from the GoMBR, is a synonym of *Mycedium elephantotus* (Pallas, 1766) as of Hoeksema and Cairns (2018).

MEANDRINIDAE

135. ***Dichocoenia stokesii*** **Milne Edwards and Haime, 1848**: Mondal et al. (2011)recordedthe occurrence of this species in the Andaman Sea. However, this is an Atlantic species (Hoeksema and Cairns, 2018, and IUCN 2008). Hence, we excluded this record in the present checklist.

MONTASTRAEIDAE

136. ***Montastraea salebrosa*****(Nemenzo, 1959)**: Raghuraman et al. (2012) and Mondal et al. (2013) reported from the A&N Islands, is previous combination and wrong genus spelling of *Paramontastraea salebrosa* (Nemenzo, 1959) as of Hoeksema and Cairns(2018).

137. ***Montastrea annularis*** **(Ellis and Solander, 1786):** Mondal etal. (2013) recorded from the A&N Islands and Krishnan et al. (2018) from GoMBR, is s previous combination, wrong genus spelling of *Orbicella annularis* (Ellis and Solander, 1786). This species is native Atlantic species (Hoeksema and Cairns

2018, and IUCN 2008) and erroneously reported from the Andaman Sea and GoMBR. Hence, it is excludedfrom this checklist.

138. ***Montastrea annuligera* (Milne Edwards and Haime, 1849):** Mondal et al. (2013) from the A&N Islands, is a previous combination and wrong genus spelling of *Astrea annuligera* Milne Edwards and Haime, 1849 as of Hoeksema and Cairns (2018).

139. ***Montastraea cavernosa* (Linnaeus, 1767)**: Mondal et al. (2011) recorded from the Andaman Islands. However, this species is native to the Atlantic Ocean (Hoeksema, and Cairns, 2018, and IUCN 2008). Therefore, excluded in the present checklist.

140. ***Montastrea colemani*Veron, 2000**: This species reported by Raghuraman et al. (2012) from the A&N Islands and Krishnan et al. (2018) from GoMBR, which is original combination, basionym and wrong genus spelling of *Favites colemani* (Veron, 2000) as of Hoeksema and Cairns (2018).

141. ***Montastrea curta*(Dana, 1846):** Caeiro (1999) reported from the Lakshadweep, Turner et al. (2009) reported from the A&N Islands, which is a previous combination and wrong genus spelling of *Astrea curta* Dana, 1846 as of Hoeksema, B.,and Cairns, S. (2018).

142. ***Montastrea magnistellata* Chevalier, 1971:** Caeiro (1999) from the Lakshadweep, Mondal et al. (2013) from the A&N Islands, is original combination, basionym and wrong genus spelling of *Favites magnistellata* (Chevalier, 1971) as of Hoeksemaand Cairns (2018).

143. ***Montastrea valenciennesi*(Milne Edwards and Haime, 1849):** Raghuraman et al. (2012) and Mondal et al. (2013) documented from the A&N Islands, Venkataraman and Rajan (2013) and Krishnan et al. (2018) from Palk bay and Sreenath et al. (2015) from the Lakshadweep, is previous combination, wrong genus spelling of *Favites valenciennesi* (Milne Edwards and Haime, 1849) as of Hoeksema and Cairns (2018).

MUSSIDAE

144. ***Favia albidus*Veron, 2000:** Raghuraman et al. (2012) and Mondal et al. (2013) noted from the A&N Islands and Venkataraman and Rajan 2013 reported from Palk Bay, is an original combination, basionym, wrong spelling of *Dipsastraea albida* (Veron 2000) as of Hoeksema and Cairns(2018).

145. ***Favia danae* Verrill, 1872:** Mondal et al. (2015, 2019) noted in the A&N Islands, which is synonym of *Dipsastraea danai* (Milne Edwards, 1857) as of Hoeksema and Cairns (2018).

146. ***Favia danai* (Milne Edwards, 1857):**Mondal et al. (2013) reported from the A&N Islands, is an original combination, and the basionym of *Dipsastraea danai* (Milne Edwards, 1857) as of Hoeksema and Cairns (2018).

147. ***Favia fragum* (Esper, 1795):** Mondal (2015) included this species from Andaman water. Nevertheless, this is an Atlantic species (IUCN, 2008). Hence, not included in the present checklist.

148. ***Favia favus* (Forskål, 1775):** Pillai (1967) from GoMBR, Pillai (1971) from Lakshadweep, Pillai (1972) from the A&N Islands, is the previous combination of *Dipsastraea favus* (Forskål, 1775) as of Hoeksema and Cairns (2018).

149. ***Favia helianthoides*Wells, 1954:** Mondal et al. (2011) reported from the A&N Islands, is an original combination, andthe basionym of *Dipsastraea helianthoides* (Wells, 1954) as of Hoeksema and Cairns (2018).

150. ***Favia lacuna* Veron, Turak and DeVantier, 2000*:***Satyanarayana and Ramakrishna (2009) reported from GoK, and Ramakrishna et al. 2010; Venkataraman et al. (2012) reported from the A&N Islands, is original combination, basionym of *Dipsastraea lacuna* (Veron, Turak and DeVantier, 2000) as of Hoeksema and Cairns (2018).

151. ***Favia laxa*(Klunzinger, 1879)**: Raghuraman et al. (2012) from the A&N Islands, is the previous combination of *Dipsastraea laxa* (Klunzinger, 1879) as of Hoeksema and Cairns (2018).

152. ***Favia lizardensis* Veron, Turak and DeVantier, 2000:** Raghuraman et al. (2012) and Mondal et al. (2013) documented from the A&N Islands, is original combination, the basionym of *Dipsastraea lizardensis* (Veron, Pichon, and Wijsman-Best, 1977) as of Hoeksema and Cairns (2018).

153. ***Favia marshae* Veron, 2000:** Mondal et al. (2013) recorded from the A&N Islands, is an original combination, the basionym of *Dipsastraea marshae* (Veron, 2000) as of Hoeksema and Cairns (2018).

154. ***Favia matthaii*Vaughan, 1918:**Raghuraman et al. (2012) and Mondal et al. (2013) reported from the A&N Islands, is an original combination, the basionym of *Dipsastraea matthaii* (Vaughan, 1918) as of Budd et al. (2012) and Hoeksema and Cains (2018).

155. ***Favia maxima*** **Veron, Pichon and Wijsman-Best, 1977:** Raghuraman et al. (2012) and Mondal et al. (2013) reported from the A&N Islands, is the original combination, basionym of *Dipsastraea maxima* (Veron, Pichon,and Wijsman-Best, 1977) as of Hoeksema and Cairns (2018).

156. ***Favia pallida*** **(Dana, 1846):** Matthai (1924) from A&N, Pillai (1967) from GoMBR, Pillai 1971 from the Lakshadweep, is an original combination, the basionym of *Dipsastraea pallida* (Dana, 1846) as of Hoeksema and Cairns (2018).

157. ***Favia rotundata*****(Veron, Pichon and Wijsman Best, 1977):** Turner et al. (2009) recorded from the A&N Islands, is the previous combination of *Favites rotundata* Veron, Pichon and Wijsman-Best, 1977 as of Hoeksema and Cairns (2018).

158. ***Favia rotumana*** **(Gardiner, 1899)**: Tikader et al. (1986), Venkataraman et al. 2012 and Mondal et al. (2013) reported from the A&N Islands, is the previous combination of *Dipsastraea rotumana* (Gardiner, 1899) as of Hoeksema and Cairns (2018).

159. ***Favia speciosa*****(Dana, 1846):**This record included by Pillai (1967)from GoM, Pillai (1971) from Lakshadweep, Reddiah (1977), Mondal et al. (2013) from the A&N Islands. However, this is the previous combination of *Dipsastraea speciosa* (Dana, 1846) as of Hoeksema and Cairns (2018).

160. ***Favia stelligera*** **(Dana 1846)**: This species reported by Pillai (1967) from GoMBR, Tikader et al. (1986), as Mondal et al. (2013) from the A&N Islands, is the previous combination of *Goniastrea stelligera* (Dana, 1846) as of Huang et al. (2014) and Hoeksema and Cairns (2018).

161. ***Favia trancatus*****Veron, 2000**: Turner et al. (2009) noted the occurrence of this species from the A&N Islands, is an original combination, basionym, wrong spelling of *Dipsastraea truncata* (Veron, 2000) as of Budd et al. (2012) and Hoeksema and Cairns (2018).

162. ***Favia valenciennesi*** **(Milne Edwards and Haime, 1849):** Pillai (1972) reported from the A&N Islands and GoMBR; also, Pillai (1989) from Lakshadweep, is the previous combination of *Favites valenciennesi* (Milne Edwards and Haime, 1849) as of Hoeksema (2014).

163. ***Favia veroni*****Moll and Best, 1984:** Mondal et al. (2013) recorded from the A&N Islands, is an original combination, the basionym of *Dipsastraea veroni* (Moll and Best, 1984) as of Budd et al. (2012) and Hoeksema and Cairns (2018).

164. ***Mussa angulosa* (Pallas 1766):** Reddiah 1977 reported this species from the Andaman. Nevertheless, distribution of this species restricted to the Atlantic (IUCN, 2008). So, we excluded this record from this checklist.

165. ***Mussismiliabraziliensis* (Verrill, 1868):** Mondal et al. (2015) recorded from the A&N Islands. However, this species is native to Brazilian water (IUCN, 2008). Hence, we excluded this species from the present checklist.

166. ***Mycetophyllia danaana* Milne Edwards and Haime,1849:** Ramakrishna et al. (2010)misidentified this species from the Andaman and Nicobar Islands. However, this species is native to Western central Atlantic (IUCN, 2008). Therefore, not listed in this checklist.

167. ***Mycetophyllia lamarckiana* Milne Edwards and Haime, 1848:** Mondal and Raghunathan (2016) reported from Andaman water but, distribution of this species restricted to Western central Atlantic region (IUCN, 2008). Therefore, not included in this checklist.

168. ***Scolymia australis* (Milne Edwards and Haime, 1849):** Mondal et al. (2011) recorded this species from the A&N Islands,which is the previous combination *Homophyllia australis* (Milne Edwards and Haime, 1849) as of Hoeksema and Cairns (2018).

169. ***Scolymia cubensis* (Milne Edwards and Haime, 1849):** Ramakrishna et al. (2010) erroneously included this species from the Andaman Islands. However, this is an Atlantic species (Hoeksema and Cairns, 2018).

170. ***Scolymia vitiensis* Brüggemann, 1877:** This species documented from the A&N Islands by Venkataraman et al. (2012) and Mondal et al. (2013) respectively, but, is original combination, basionym a synonymy of *Lobophyllia vitiensis* (Brüggemann, 1877) as of Huang et al. (2016) and Hoeksema and Cairns (2018).

171. ***Colpophyllia natans* (Houttuyn, 1772):** Mondal et al. (2011) erroneously reported from Andaman. It is native Atlantic species (IUCN, 2008). Therefore, not included in this checklist.

OCULINIDAE

172. ***Galaxea hexagonalis* (Milne Edwards and Haime, 1848):** Pillai (1967) reported from the Lakshadweep, is a synonym of *Galaxea fascicularis* (Linnaeus, 1767) as of Hoeksema and Cairns (2018).

173. ***Lophelia investigatoris*** **Alcock 1898: Alcock (1893, 1898) reported from** off Konkan coast and Kerala coast, is a synonym of *Madrepora oculata* (Linnaeus, 1758) as of Hoeksema and Cairns (2018).

POCILLOPORIDAE

174. ***Pocillopora danae*****Verrill, 1864:** Raghuraman et al. (2012) recorded from the A&N Islands, is a synonym of *Pocillopora verrucosa*(Ellis and Solander, 1786) as of Hoeksema and Cairns (2018).

175. ***Pocillopora eydouxi*****Milne Edwards, 1860:** Pillai (1967 and 1971) reported from the GoMBR, Lakshadweep, Raghuraman et al. (2012) from the A&N Islands, is synonymy of *Pocillopora grandis* Dana, 1846 as of Hoeksema and Cairns (2018).

176. ***Polyastravenosa*** **Ehrenberg, 1834:** Pillai (1967) reported from the GoMBR, is an original combination, the basionym of *Pavona venosa*(Ehrenberg, 1834) as ofHoeksema and Cairns (2018).

177. ***Seriatopora aculeate*** **Quelch,1886:** Mondal et al. (2010) reported from the A&N Islands. It is the wrong spelling. Accepted name is *Seriatopora aculeate* Quelch,1886 as of Hoeksema and Cairns (2018).

178. ***Seriatopora guttatus*** **Veron, 2000**: This record was wrongly spelled by Mondal et al. (2012). Accepted name is *Seriatopora guttata* Veron, 2000, as of Hoeksema and Cairn (2018).

179. ***Stylopora mordax*****(Dana, 1846):** Pillai (1967) recorded from Lakshadweep, Reddiah (1977) reported from the A&N Islands, is a synonym of *Stylophora pistillata* Esper, 1797 as of Hoeksema and Cairn (2018).

PORITIDAE

180. ***Goniopora duofaciata*** **Thiel, 1932**: Pillai (1967) reported from the GoMBR, is synonymized name of *Goniopora planulata* (Ehrenberg,1834) as of Hoeksema and Cairns (2018).

181. ***Goniopora minor*** **Crossland, 1952*:*** Pillai (1971) described from the Lakshadweep, Mondal et al. (2013) reported from the A&N Islands, is synonymy of *Goniopora pedunculata* Quoy and Gaimard, 1833 as of Veron and Pichon (1982) and Hoeksema and Cairns (2018).

182. ***Goniopora nigra*** **Pillai, 1967:** Pillai (1967) reported from the GoMBR, which is synonymy of *Bernardpora stutchburyi* Wells, 1955 as of Veron and Pichon (1982) and Hoeksema and Cairns (2018).

183. ***Porites (Synaraea) convexa* (Verrill, 1864):** Pillai (1989) recorded this species from the Lakshadweep, which is synonymy of *Porites rus* (Forskål, 1775) as of Veron and Pichon (1982) and Hoeksema and Cairns (2018).

184. ***Porites andrewsi* Vaughan, 1918:** Pillai (1967) recorded from the Lakshadweep, is synonymy of *Porites cylindrica* Dana, 1846 as of Veron and Pichon (1982) and Hoeksema and Cairns (2018).

185. ***Porites cumul*ates Nemenzo, 1955:** Mondal et al. (2016) reported from the A&N Islands, is the wrong spelling of *Porites cumulatus* (Nemenzo, 1955) as of Hoeksema and Cairns (2018).

186. ***Porites eridani*Umbgrove, 1940***:* Tikader et al. (1986) reported from the A&N Islands, is synonymy of *Porites lichen* Dana, 1846 as of Veron and Pichon (1982) and Hoeksema and Cairns (2018).

187. ***Porites tenuis* Verrill, 1866:** Reddiah (1977) reported from the A&N Islands, is synonymy of *Porites lutea* (Quoy and Gaimard, 1833) as of Scheer and Pillai (1983) and Hoeksema, B., and Cairns, D. (2018).

188. ***Porites lutea* (Quoy and Gaimard, 1833):** This species reported by Pillai and Patel, 1988 from GoK, Pillai, 1967 and 1971 from GoMBR, Reddiah, 1977 from Andaman, has been now changed to*Porites lutea* Milne Edwards and Haime, 1851 by Hoeksema and Cairns (2018).

189. ***Porites porites* (Pallas, 1766)**: We excluded this species from the checklist. Reddiah (1977) andMondal et al. (2010)reported this species from the Andaman Islands, but this is a native Atlantic species distributed in Mozambique, Nicaragua, Jamaica species (Hoeksema and Cairns).

PSAMMOCORIDAE

190. ***Psammocora exesa* Dana, 1846:** This species was reported by Pillai (1971) from the Lakshadweep, which is synonymy of *Coscinaraea exesa* (Dana, 1846) as of Hoeksema (2014) and Hoeksema and Cairns (2018).

191. ***Psammocora explanulata* Van der Horst, 1922:** Turner et al. (2009) recorded from the A&N Islands, is synonymy of *Cycloseris explanulata*(Van der Horst, 1922) as of Benzoni et al. (2012) and Hoeksema and Cairns (2018).

192. ***Psammocora haimeana*Milne Edwards and Haime, 1851**: Pillai (1971) reported from the Lakshadweep and Turner et al. (2009) from the A&N Islands was wrong spelling. The new spelling is known as *Psammocora haimiana* Milne Edwards and Haime, 1851, as of Hoeksema and Cairns (2018).

193. ***Psammocora obtusangula*(Lamarck, 1816):** This species recorded by Raghuraman et al. (2012) from the A&N Islands, is synonymy of *Psammocora contigua* (Esper, 1794) as ofHoeksema and Cairns (2018)

194. ***Psammocora superficialis* Gardiner, 1898*:*** Turner et al. (2009) listed from the A&N Islands, is synonymy of *Psammocora profundacella* Gardiner, 1898 as of Benzoni et al. (2010) and as reported in Hoeksema and Cairns (2018)

SCLERACTINIA INCERTAE SEDIS

195. ***Solenastrea bournoni*Milne Edwards and Haime, 1849:** This species was reported by Ramakrishna et al. (2010)and Mondal et al. (2010a)from the Andaman Islands. However, this species occurs in the Atlantic Ocean (IUCN, 2008). Hence, it is not included in this checklist.

SIDERASTREIDAE

196. ***Siderastrea liliacea* Klunzinger, 1879**: This specieswas reported by Pillai (1972) from GoMBR, which is synonymy of *Pavona clavus* (Dana, 1846) as of Hoeksema and Cairns (2018).

197. ***Siderastrea radians* (Pallas, 1766):** This species reported in the Indian water by Pillai (1967) and Raghuraman et al. (2012) from GoMBR and Andaman, respectively. However, distribution of this species restricted to the Atlantic (IUCN, 2008). Therefore, it is not included in this checklist.

198. ***Siderastrea siderea* (Ellis and Solander, 1786):** Mondal et al. (2011) reported this species from the Andaman Islands. Moreover, this species native to the Western Central Atlantic Ocean (IUCN, 2008). Hence, not listed in the present checklist.

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