

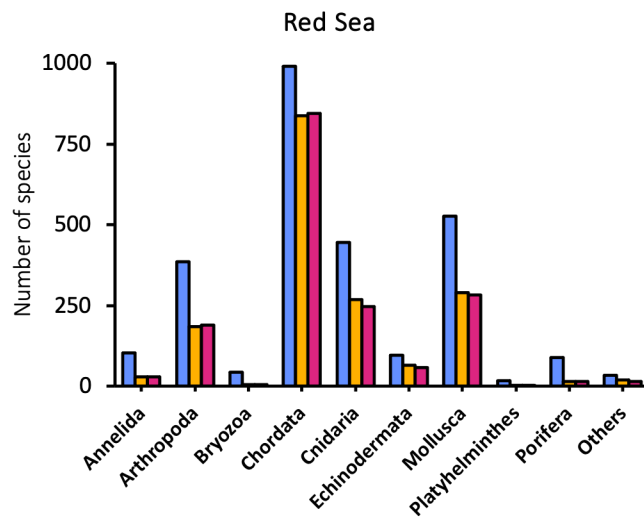
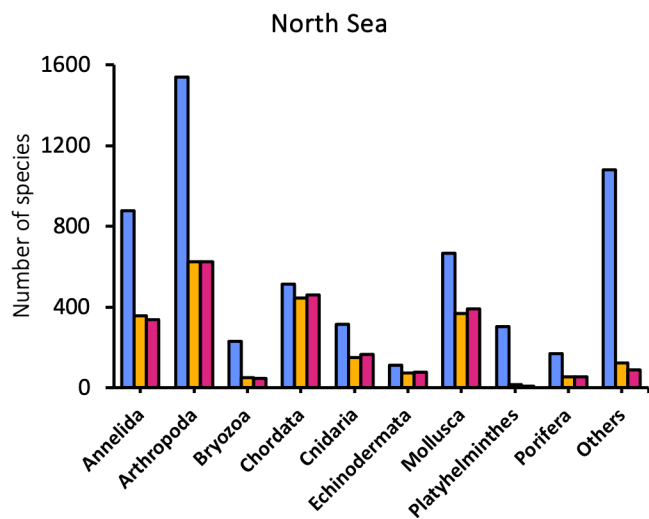
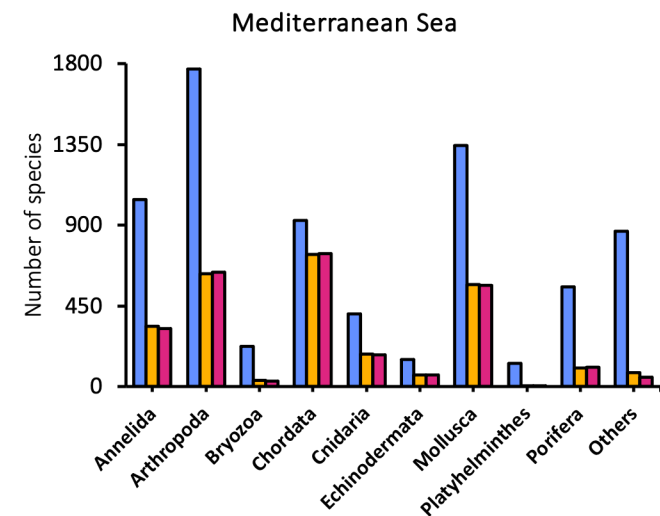
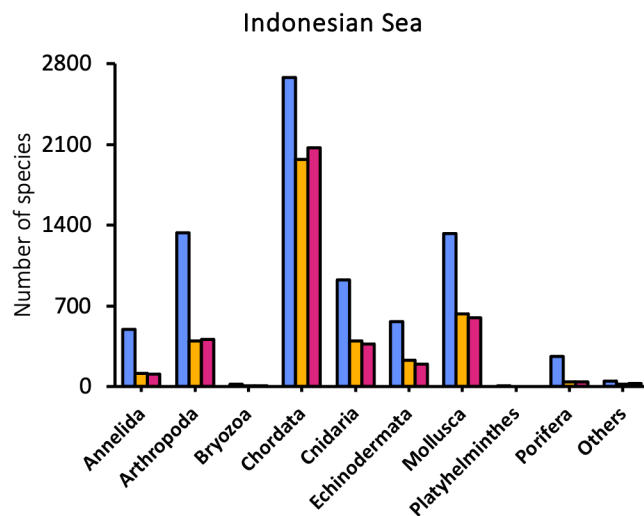
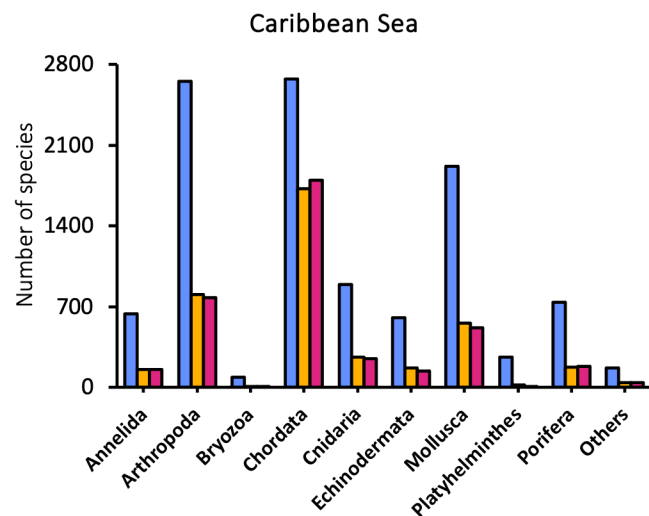
Supplementary material S1: DNA barcoding initiatives

Initiative	Old website	Started in	Ended in	Active until	Still curated	Source	Actual website
The Canadian Barcode of Life Network	www.BOLNET.ca	2005	2016	2016	no		www.nserc-crsng.gc.ca/Business-Entreprise/How-Comment/Networks-Reseaux/DNABarcode-CodeABarreADN_eng.asp
European Barcode Of Life (EUBOL)	www.ecbol.org/	2008 (?)	2016	2016	no		www.bioscaneurope.org
Norwegian Barcode Of Life (NorBOL)	www.dnabarcoding.no/en/	2007	2016	2016	no	Trivedi et al. 2016	www.norbol.org/en/
Mexican Barcode Of Life (MexBOL)	www.mexbol.org	2013 (?)	2016	2016	no		www.mexbol.com.mx
Japanese Barcode Of Life (JBOLI)	www.jboli.org/	2007		now	unknown		
Human health Barcode Of Life (HealthBOL)	not found	2010 (?)		unknown	unknown		
Polar life Barcode Of Life (PolarBOL)	not found			unknown	unknown		
Quarantine and plant pathogens (QBOL, as part of the ECBOL)	www.qbol.org/en/qbol.htm	2009		now	unknown		
Formicidae Barcode Of Life	www.formicidaebol.org/	2008	2015	unknown	no		
All Birds Barcoding Initiative (ABBI)	www.barcodingbirds.org/	2005	2015	unknown	no		
Trichoptera Barcode Of Life	www.trichopterabol.org/		2015	unknown	no		
Fish Barcode Of Life (FISH-BOL)	www.fishbol.org/	2004	2015	unknown	no	Barcoding 500K Initiative (2010-2015): www.ibol.org/phase1/about-us/campaigns/	
Lepidoptera Barcode Of Life	www.lepbarcoding.org/		2015	unknown	no		
Mammal Barcode Of Life	www.mammaliabol.org/		2015	unknown	no		
Mosquito Barcoding Initiative	not found		2015	unknown	unknown		
Marine Barcode Of Life	www.marinebarcoding.org/	2009 (?)	2015	unknown	unknown		
Sponge Barcode project (SpongeBOL)	www.spongebarcoding.org	2018 (?)	2015	now	yes		
Bee Barcode of Life Initiative (Bee-BOL)	not found	2008 (?)	2015	unknown	unknown		
Skatebase	www.skatebase.org	2014		now	no		
Census of Coral Reefs Ecosystems (CReefs)	www.origin-apps-pifsc.fisheries.noaa.gov/creefs.php	2006 (?)	2010	now	unknown		
Census of Marine Zooplankton (CMarZ)	www.cmarz.org	2004	2010	2011	no		
Census of Antarctic Marine Life (CAML)	www.antarctica.gov.au/news/2009/australian-polar-research-at-close-of-ipy/census-of-antarctic-marine-life/	2005		now (?)	yes (?)	Census of Marine Life: www.coml.org	
International Census of Marine Microbes (ICoMM)	www.icomm.mbl.edu		2010		no		

Supplementary material S2: Morphological and molecular data retrieved in May 2021 and compared with Bucklin et al., 2011

Our data (22/05/2021)						Our data (22/05/2021): NCBI – BOLD mean				Bucklin et al., 2011 data				Taxonomy changes
Phylum	Species	NCBI	BOLD	NCBI%	BOLD%	Phylum	Species	Barcoded	Barcoded%	Phylum	Species	Barcoded	Barcoded%	
Acanthocephala	517	80	45	15.5	8.7	Acanthocephala	517	63	12.2	Acanthocephala	600	10	1.7	
Annelida	13812	1630	1466	11.8	10.6	Annelida	13812	1548	11.2	Annelida	12324	637	5.2	Echiura
Arthropoda	58492	6203	5822	10.6	10	Arthropoda	58492	6013	10.3	Arthropoda	47217	3580	7.6	
Brachiopoda	416	32	31	7.7	7.5	Brachiopoda	416	32	7.7	Brachiopoda	550	35	6.4	
Bryozoa	6381	187	164	2.9	2.6	Bryozoa	6381	176	2.8	Bryozoa	5700	20	0.4	
Chaetognatha	134	23	25	17.2	18.7	Chaetognatha	134	24	17.9	Chaetognatha	121	23	19	
Chordata	24229	10225	10790	42.2	44.5	Chordata	24229	10508	43.4	Chordata	21517	7279	33.8	
Cnidaria	12098	1745	1637	14.4	13.5	Cnidaria	12098	1691	14	Cnidaria	9795	594	6.1	
Ctenophora	210	16	12	7.6	5.7	Ctenophora	210	14	6.7	Ctenophora	166	0	0	
Cycliophora	2	2	2	100	100	Cycliophora	2	2	100	Cycliophora	1	1	100	
Dicyemida	122	11	0	9	0	Dicyemida	122	6	4.9	Dicyemida	82	0	0	Rhombozoa
Echinodermata	8019	1512	1329	18.9	16.6	Echinodermata	8019	1421	17.7	Echinodermata	7000	771	11	
Entoprocta	188	14	4	7.4	2.1	Entoprocta	188	9	4.8	Entoprocta	170	0	0	
Gastrotricha	521	45	42	8.6	8.1	Gastrotricha	521	44	8.4	Gastrotricha	400	0	0	
Gnathostomulida	100	8	7	8	7	Gnathostomulida	100	8	8	Gnathostomulida	97	8	8.2	
Hemichordata	132	2	9	1.5	6.8	Hemichordata	132	6	4.5	Hemichordata	106	2	1.9	
Kinorhyncha	307	27	24	8.8	7.8	Kinorhyncha	307	26	8.5	Kinorhyncha	130	0	0	
Loricifera	29	0	0	0	0	Loricifera	29	0	0	Loricifera	18	0	0	
Mollusca	50841	6568	5847	12.9	11.5	Mollusca	50841	6208	12.2	Mollusca	52525	4813	9.2	
Nematoda	6465	177	122	2.7	1.9	Nematoda	6465	150	2.3	Nematoda	12000	180	1.5	
Nematomorpha	5	0	0	0	0	Nematomorpha	5	0	0	Nematomorpha	5	0	0	
Nemertea	1312	220	204	16.8	15.5	Nemertea	1312	212	16.2	Nemertea	1230	81	6.6	
Orthonectida	26	0	0	0	0	Orthonectida	26	0	0	Orthonectida	24	0	0	
Phoronida	13	10	9	76.9	69.2	Phoronida	13	10	76.9	Phoronida	10	0	0	
Placozoa	3	0	2	0	66.7	Placozoa	3	1	33.3	Here were Rhombozoa (now Dicyemida)				
Platyhelminthes	12894	520	181	4	1.4	Platyhelminthes	12894	351	2.7	Platyhelminthes	15000	124	0.8	
Porifera	9314	736	721	7.9	7.7	Porifera	9314	729	7.8	Porifera	5500	67	1.2	
Priapulida	22	4	3	18.2	13.6	Priapulida	22	4	18.2	Priapulida	8	1	12.5	
Rotifera	192	42	28	21.9	14.6	Rotifera	192	35	18.2	Rotifera	50	20	40	
Sipuncula	201	51	50	25.4	24.9	Sipuncula	201	51	25.4	Sipuncula	144	15	10.4	
Tardigrada	230	5	4	2.2	1.7	Tardigrada	230	5	2.2	Tardigrada	212	9	4.2	
Xenacoelomorpha	459	66	62	14.4	13.5	Xenacoelomorpha	459	64	13.9					
TOTALS	207821	30094	28647	14.5	13.8	TOTALS	207821	29371	14.1	TOTALS	192702	18270	9.5	

Supplementary material S3: Number of nominal marine animal species and relative COI-sequenced taxa per phylum in the five target Large Marine Ecosystems



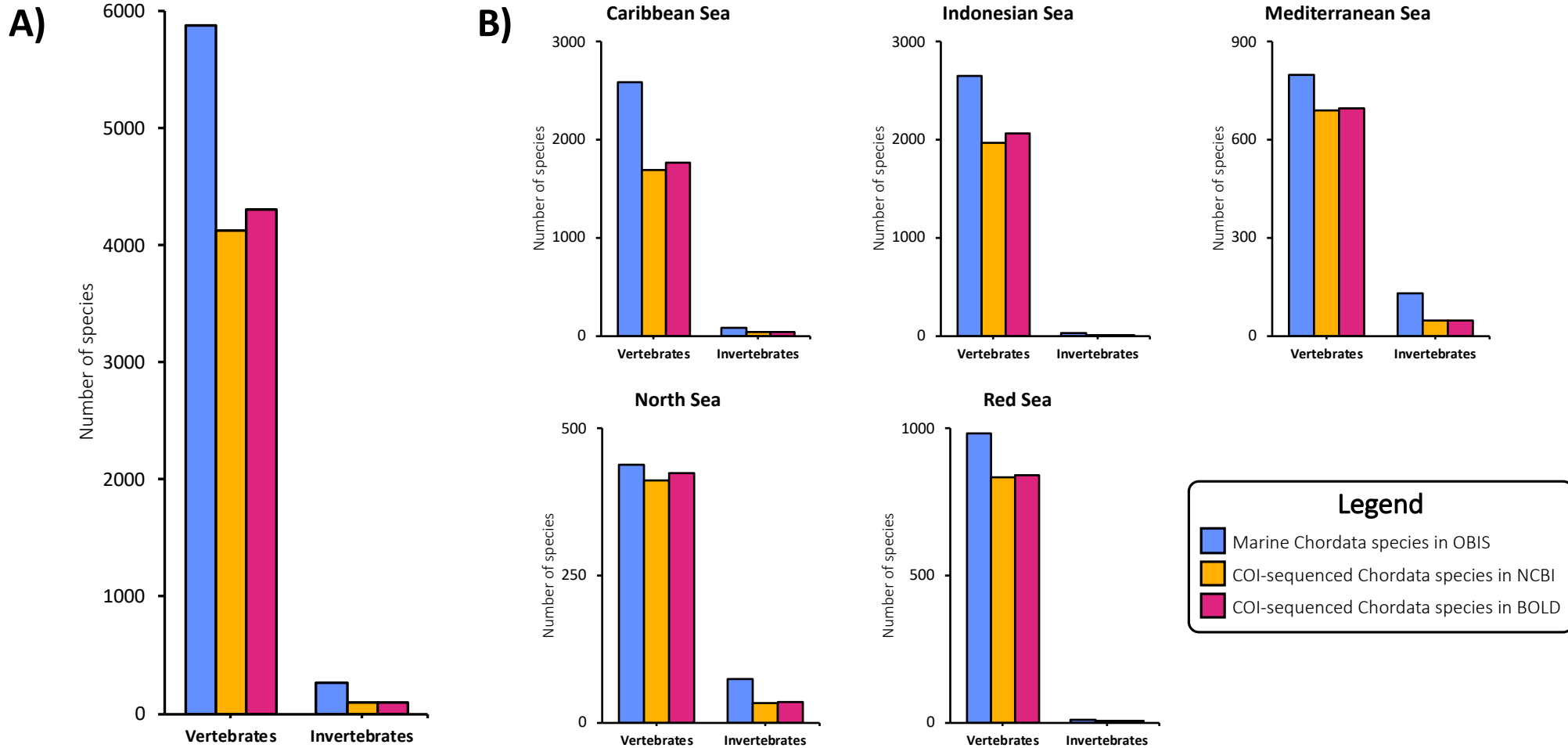
Legend

- Marine animal species in OBIS
- COI-sequenced animal species in NCBI
- COI-sequenced animal species in BOLD

"Other phyla" category includes:

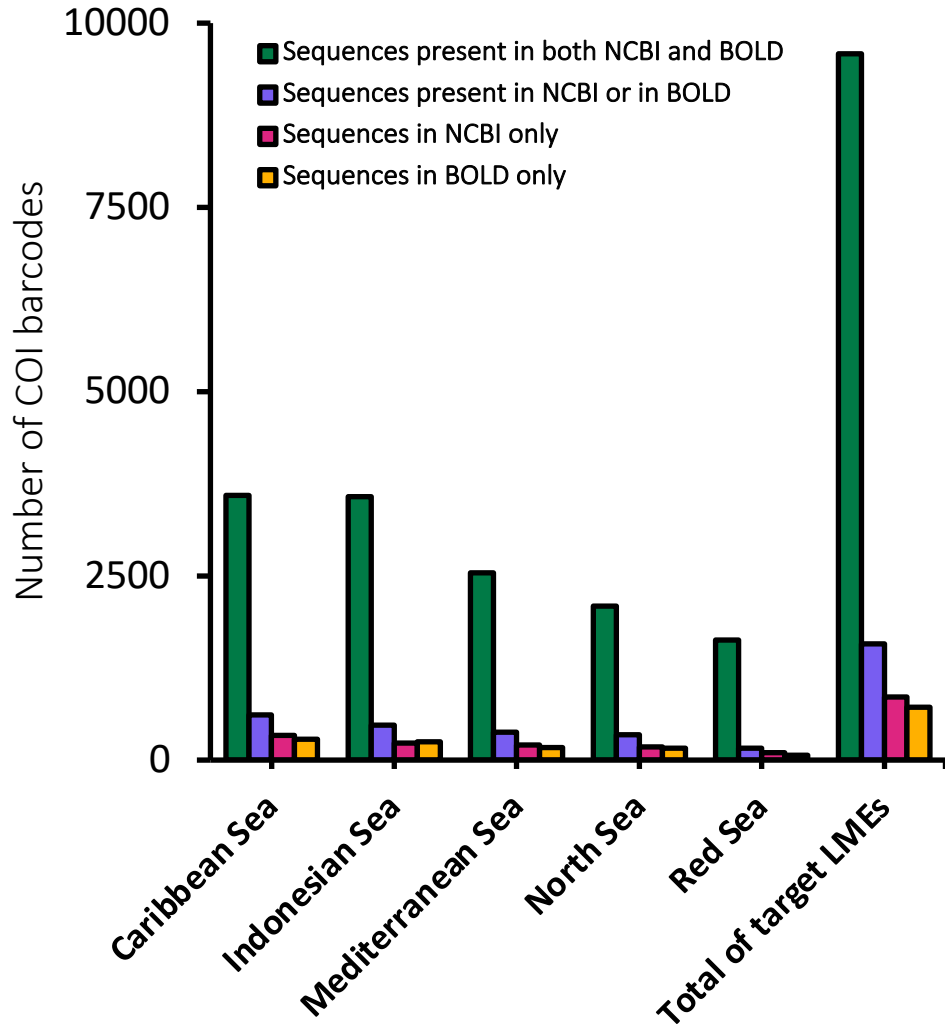
Acanthocephala	Gastrotricha	Phoronida
Brachiopoda	Gnathostomulida	Priapulida
Chaetognatha	Hemichordata	Rotifera
Ctenophora	Kinorhyncha	Sipuncula
Cycliophora	Nematoda	Tardigrada
Entoprocta	Nemertea	Xenacoelomorpha

Supplementary material S4: A) Total number of nominal marine Chordata species and relative COI-sequenced taxa per phylum and **B)** relative values scattered for each of the five target Large Marine Ecosystems



Supplementary material S5: A) Number of COI sequences and relative presence in NCBI and BOLD databases scattered along all the chosen LMEs. **B)** Number of barcodes per species shared at least by two LMEs.

A)



B)

