

Inventory of marine and coastal datasets

Available through the Proteus Partnership

This document offers an overview of datasets available to Proteus Partners that are of relevance to marine and coastal biodiversity, including those curated or hosted by UNEP-WCMC. This is a Proteus-specific version of **Annex 2** of the [Manual of marine and coastal datasets of biodiversity importance](#)¹ (Martin et al. 2014), which collates resources to provide guidance for users of marine data. To date, 55 datasets, databases, and data portals are available to Proteus Partners, with detailed metadata having been created for 49 of these records (compiled in **Annex 3**, which will be released in the coming weeks). 20 of these datasets are available to Proteus Partners for download from UNEP-WCMC's Ocean Data Viewer², while an additional 15 datasets are available through Proteus Data Packs or monthly updates distributed by UNEP-WCMC to Partners.

Datasets that have been updated (**yellow**) or added (**red**) within the last few months have been highlighted, specifying versions. For all datasets not distributed by UNEP-WCMC, information about the data layer can be found in the metadata (if available), or should be sought from the named contact organisation.

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	New dataset
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Biogenic habitat ⁶	WCMC-008	Global Distribution of Coral Reefs (2010)	1.3	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	WCMC-009	Global Distribution of Coral Reefs - 1 Km Data (2003)	7.0	UNEP World Conservation Monitoring Centre	✓	Contact UNEP-WCMC		✓
	WCMC-001	Global Distribution of Cold-water Corals (2005)	2.0	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓

¹ Martin CS, Fletcher R, Jones MC, Kaschner K, Sullivan E, Tittensor DP, Mcowen C, Geffert JL, van Bochove JW, Blyth S, Ravillious C, Tolley M, Stanwell-Smith D. (2014). Manual of marine and coastal datasets of biodiversity importance. UNEP World Conservation Monitoring Centre. URL: <http://wcmc.io/MarineDataManual>.

² The Ocean Data Viewer (<http://data.unep-wcmc.org>) makes marine and coastal data available to Proteus Partners for viewing and download.

³ Internal UNEP-WCMC numbering system within our metadata catalogue.

⁴ According to information available to UNEP-WCMC, it is understood that commercial use of these datasets is permitted under the standard terms of use. However, conditions may change over time, and UNEP-WCMC makes no warranty in this regard. Users are advised to consult the terms and conditions available from the data provider prior to using the data for any purpose.

⁵ UNEP-WCMC has sought permission from the data provider for Proteus Partners' use of these datasets (where commercial use is not otherwise permitted by the standard terms of use). UNEP-WCMC holds a record of the written permission and can make this record available to Partners on request. Partners are advised to consult the associated metadata. Partners may wish to contact UNEP-WCMC for further information prior to any sensitive use of these datasets.

⁶ **Biogenic habitat:** Habitats created by plants or animals, and that provide a physical structure for other organisms to live.

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Biogenic habitat ⁶	ZSL-001	Global Distributions of Habitat Suitability for Cold-Water Octocorals (2012)	1.0 (2012)	Institute of Zoology, Zoological Society of London	✓	Ocean Data Viewer	✓ ⁷	
	Mediseh-001	Modelled Spatial Distributions of Coralligenous and Maërl Habitats (2014)	2014	UNEP World Conservation Monitoring Centre	✓	EMODnet Seabed Habitats	✓ ⁸	
	WCMC-010	Global Distribution of Mangroves USGS (2011)	1.3 (June 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	WCMC-011	World Atlas of Mangroves (2010)	1.0	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	TNC-001	Global Distribution of Modelled Mangrove Biomass (2014)	1.0 (2014)	Department of Zoology, University of Cambridge	✓	Ocean Data Viewer		✓
	WCMC-012	World Mangrove Atlas (1997)	1.0	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	NASA-001	Mangrove Tree Height in Africa (2013)	1.0 (Sept. 2012)	NASA Goddard Space Flight Centre		Contact UNEP-WCMC		✓
	WCMC-013-014	Global Distribution of Seagrasses (2005)	3.0 (Jan. 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	Mediseh-002	Modelled Posidonia oceanica Distribution (2013)	2013	"Tor Vergata" University of Rome	✓	EMODnet Seabed Habitats		✓
	WCMC-027	Global Distribution of Saltmarsh (unpublished)	1.0 (Nov. 2013)	UNEP World Conservation Monitoring Centre	✓	Proteus Saltmarsh Data Pack (ver 1.0; 2013)		✓

⁷ Licensed under a '[Creative Commons Attribution 3.0 Unported](#)' License (CC BY 3.0), which permits commercial used provided that the data provider is identified, a link to the license is provided, and any changes are indicated.

⁸ See the EMODnet Seabed Habitats webGIS [Terms and Conditions](#).

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Species habitat ⁹	WCMC-007	Global Distribution of Sea Turtle Nesting Sites (1999)	1.1 (May 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	WCMC-006	Global Distribution of Sea Turtle Feeding Sites (1999)	1.1 (May 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
Species distribution ¹⁰	IUCN-001	Spatial Data for the Red List of Threatened Species	May 2015	International Union for Conservation of Nature		Integrated Biodiversity Assessment Tool ¹¹		✓
	IUCN-002	Corrected and Refined Mangrove Species Ranges (2014)	1.0 (Dec. 2014)	UNEP World Conservation Monitoring Centre	✓	Contact UNEP-WCMC		✓
	GROMS-001	Global Register of Migratory Species (2004)	--	Zoologisches Forschungsinstitut und Museum Alexander Koenig		http://www.groms.de	✓	
	Kaschner-001	Global Distribution of Northern Fur Seals (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-002	Global Distribution of Hawaiian Monk Seals (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-003	Global Distribution of Grey Seals (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-004	Global Distribution of Hector's Dolphins (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
Kaschner-005	Global Distribution of Northern Bottlenose Whales (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓	

⁹ **Species habitat:** Where an animal or plant species lives (including migratory routes), feeds (e.g., foraging sites), and reproduces (e.g., breeding, spawning, nesting, and nursery sites).

¹⁰ **Species distribution:** The geographical spaces where the species may be found.

¹¹ Access to the Integrated Biodiversity Assessment Tool (www.ibatforbusiness.org) is available for Proteus Partners. Contact businessandbiodiversity@unep-wcmc.org for login and access details.

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Species distribution ¹⁰	Kaschner-006	Global Distribution of Sperm Whales (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-008	Global Distribution of Bowhead Whales (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-009	Global Distribution of Sei Whales (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-011	Global Distribution of Atlantic Spotted Dolphins (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
	Kaschner-012	Global Distribution of Melon-Headed Whales (2013)	1.0 (August 2013)	Albert-Ludwigs-University of Freiburg	✓	Proteus AquaMaps Data Pack (ver 1.0; 2013)		✓
Biodiversity metric ¹²	WCMC-019	Global Patterns of Marine Biodiversity (2010)	--	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	WCMC-015	Global Seagrass Species Richness (2003)	1.0	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
Area of biodiversity importance ¹³	Birdlife-001	Global Distribution of KBAs, IBAs and AZEs	2013	Birdlife International	✓	Integrated Biodiversity Assessment Tool ¹⁴		✓

¹² **Biodiversity metric:** Designed to numerically measure the value of biodiversity in space and time.

¹³ **Area of biodiversity importance:** Protected areas and approaches used to highlight areas of biodiversity conservation interest.

¹⁴ Access to the Integrated Biodiversity Assessment Tool (www.ibatforbusiness.org) is available for Proteus Partners. Contact businessandbiodiversity@unep-wcmc.org for login and access details.

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Area of biodiversity importance ¹³	IMO-001	Global Distribution of Particularly Sensitive Sea Areas (2014)	1.0	Claymoreclan Design	✓	International Maritime Organization		✓
	ISA-001	Areas of Particular Environmental Interest (2012)	1.0 (2012)	International Seabed Authority	✓	Contact UNEP-WCMC		✓
	WCMC-029	A Global Map of Critical Habitat (2015) as per IFC PS6	1.0 (August 2013)	UNEP World Conservation Monitoring Centre	✓	Proteus Critical Habitat Data Pack (ver. 1.0; 2013)		✓
Protected area ¹⁵	WCMC-016	World Database on Protected Areas	Released monthly	UNEP World Conservation Monitoring Centre	✓	WDPA Monthly release ¹⁶		✓
Biogeographic classification ¹⁷	UBC-003	Global Estuary Database (2003)	2.0 (2014)	Sea Around Us, University of British Columbia	✓	Ocean Data Viewer		✓
	WCMC-036	Marine Ecoregions and Pelagic Provinces of the World (2007; 2012)	1.0 (May 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	NOAA-001	Large Marine Ecosystems of the World (2013)	July 2013	Large Marine Ecosystem Program, National Oceanic and Atmospheric Administration-Fisheries	✓	NOAA's LME Portal		✓
	GridA-001	Geomorphology of the oceans (2014)	--	GRID-Arendal		Blue Habitats	✓ ¹⁸	
	ZSL-002	Global Distribution of Seamounts and Knolls (2011)	1.0 (2011)	Institute of Zoology, Zoological Society of London	✓	Ocean Data Viewer	✓ ¹⁹	

¹⁵ **Protected area:** A geographically defined area which is designated or regulated and managed to achieve specific conservation objectives. For more information, please visit the [Biodiversity A-Z](#).

¹⁶ Available to Proteus Partners on a monthly basis direct from UNEP-WCMC. Contact businessandbiodiversity@unep-wcmc.org for details of the distribution list.

¹⁷ **Biogeographic classification:** Used to help understand how and where species are distributed, and to mark the boundaries between oceanographic regimes.

¹⁸ Licensed under a '[Creative Commons Attribution 4.0 International](#)' License (CC BY 4.0), which permits commercial use provided that the data provider is identified, a link to the license is provided, and any changes are indicated.

¹⁹ Licensed under a '[Creative Commons Attribution 3.0 Unported](#)' License (CC BY 3.0), which permits commercial use provided that the data provider is identified, a link to the license is provided, and any changes are indicated.

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Biogeographic classification ¹⁷	ChEssBase-002	Global Distribution of Hydrothermal Vents (2010)	3.0	University of Southampton, National Oceanography Centre	✓	ChEss Database		✓
	IntRid-001	Global Distribution of Hydrothermal Vent Fields (2013)	3.2 (Oct. 2014)	Woods Hole Oceanographic Institution	✓	Proteus Hydrothermal Vents Data Pack (ver. 3.2, 2013)		✓
	ChEssBase-001	Global Distribution of Cold Seeps (2010)	3.0	University of Southampton, National Oceanography Centre	✓	Proteus ChEssBase Seeps Data Pack (ver. 3.0, 2013)		✓
Environmental descriptors ²⁰	WCMC-020-021	Mean Sea Surface Productivity in June and December 2003-2007 (2008)	--	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	WCMC-034	Mean Annual Sea Surface Chlorophyll-a Concentration 2009-2013 (2015)	1.0 (April 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer	✓	
	WCMC-022	Mean Annual Sea Surface Temperature 2003-2007 (2008)	--	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	WCMC-035	Mean Annual Sea Surface Temperature 2009-2013 (2015)	1.0 (May 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer	✓	
Administration	UniHaw-001	Global Self-consistent, Hierarchical, High-resolution Geography Database	2.3.4 (March 2015)	School of Ocean and Earth Science and Technology, University of Hawaii	✓	University of Hawai'i	✓ ²¹	
	GMBD-001	Global Maritime Boundaries Database (2008)	--	General Dynamics Advanced Information Systems, Inc.		Global GIS Data Services	✓ ²²	

²⁰ **Environmental descriptors:** An aspect of the environment that has an effect on a given species assemblage, and which can vary in time or space. For more information, please visit the [Biodiversity A-Z](#).

²¹ As of version 2.2.2, licensed under the [GNU Lesser General Public License](#).

²² Licensed under the [GGDS End User License](#).

Category	ID ³	Dataset title	Version	Contact organisation	Metadata	Access	New dataset	
							Standard commercial license ⁴	Use by Proteus Partners negotiated ⁵
Administration	WCMC-005	Global Distribution of Islands IBPoW (2010)	1.0	UNEP World Conservation Monitoring Centre	✓	Contact UNEP-WCMC		✓
	WCMC-031	Global Distribution of Islands OSM (2013)	2.0 (2013)	UNEP World Conservation Monitoring Centre	✓	Contact UNEP-WCMC	✓	✓
	FAO-001	Global Distribution of Regional Fishery Bodies (2010)	2010	Food and Agriculture Organization of the United Nations	✓	FAO GeoNetwork	✓	
	WCMC-030	Global Distribution of Dive Centres (2001)	1.2 (June 2015)	UNEP World Conservation Monitoring Centre	✓	Ocean Data Viewer		✓
	NG-AI-001	Global Distribution of Ports: World Port Index (2011)	--	National Geospatial - Intelligence Agency		National Geospatial - Intelligence Agency	✓	
	WCMC-023	Global Marine Aquarium Database (2003)	1.0 (2003)	UNEP World Conservation Monitoring Centre	✓	Contact UNEP-WCMC		✓

Contact Details

For further details or queries, please contact:



Corinne Martin

Programme Officer
Marine Programme

Corinne.Martin@unep-wcmc.org



Lauren Weatherdon

Assistant Programme Officer
Marine Programme

Lauren.Weatherdon@unep-wcmc.org