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## الاتفاقية المتعلقة بالتنوع البيولوجي



حلقة العمل الإقليمية لشمال غرب المحيط الهندي ومناطق الخليج المجاورة لتيسير وصف المناطق البحرية المهمة إيكولوجيا أو بيولوجيا دبي، دولة الإمارات العربية المتحدة، 20–25 أبريل/نيسان 2015

## تجميع لتقديمات المعلومات العلمية لوصف المناطق التي تستوفي المعايير العلمية للمناطق البحرية المهمة إيكولوجيا أو بيولوجيا في إقليم شمال غرب المحيط الهندي ومناطق الخليج المجاورة

## مذكرة من الأمين التنفيذي

1- يوزع الأمين التنفيذي طيه تجميعا للمعلومات العلمية دعما لحلقة العمل الإقليمية لشمال غرب المحيط الهندي ومناطق الخليج المجاورة لتيسير وصف المناطق البحرية المهمة إيكولوجيا أو بيولوجيا (EBSAs). وتعقد أمانة اتفاقية التنوع البيولوجي حلقة العمل، بدعم من حكومة اليابان، من خلال صندوق اليابان للتنوع البيولوجي، وبالتعاون مع المكتب الإقليمي لغرب آسيا التابع لبرنامج الأمم المتحدة للبيئة (UNEP-ROWA)، ومكتب اتفاقية الأنواع المهاجرة – أبو ظبي، والهيئة الإقليمية للمحافظة على بيئة البحر الأحمر وخليج عدن (PERSGA)، والمنظمة الإقليمية لحماية البيئة البحرية (ROMPE)، ومبادرة أبو ظبي لبيانات البيئة العالمية (AGEDI). وتستضيف وزارة البيئة والمياه في حكومة دولة الإمارات العربية المتحدة حلقة العمل هذه التي ستعقد في دبي من 20 إلى 25 أبريل/نيسان 2015. وتقدم منظمة الكمنولث للبحوث العلمية والصناعية في أستراليا (CSIRO) الدعم العلمي والتقني لحلقة العمل هذه.

2- ويتألف هذا التجميع من قائمة بالتقديمات المقدمة من المشاركين في حلقة العمل من الأطراف والمنظمات استجابة المؤرخ 11 (http://www.cbd.int/doc/notifications/2014/ntf-2014-130-ebsa-en.pdf)، المؤرخ 11 نوفمبر/تشرين الثاني 2014. وترد التقديمات الأصلية على العنوان التالي: http://www.cbd.int/doc/?meeting=EBSAWS-2015-02.

3- ويتم توزيع هذه التقديمات في الشكل واللغات التي استلمتها بها أمانة اتفاقية التتوع البيولوجي.

Table 1. Scientific Information submitted in support of the workshop objectives using EBSA templates

Party/ Org.	Author(s)/Contributor	Contents of	Short description of submission
of submitter		EBSA	
		submission	
		EBSA Template	La biodiversité marine à Djibouti est très riche et le pays abrite cinq
		1-Aires Marines	espèces de tortues marines, la baleine à bosse (Megaptera
		Protégées de	novaeangliae) et la Baleine bleue (Balaenoptera musculus) ainsi que
		<u>Djibouti</u>	les requins baleines (rhincodon typus) et d'autres espèces marines
			d'intérêt spécial tel que le Dugong (Dugong dugon). Le pays possède
			plus de 160 espèces coralliens ainsi que quatre palétuviers d'une
Djibouti			mangrove d'importance pour la biodiversité. Cependant des menaces
Djibouti			importantes sont identifiées au niveau de la biodiversité marine à
			Djibouti et incluent: la dégradation de la zone côtière due à la
			construction intensive, aux déchets solides et aux rejets liquides
			menacent le récif corallien, les mangroves et l'équilibre de
			l'écosystème marin; la pêche intensive et illégale menacent la
			population de requins, la population d'holothurie, la population de
			tortue de mer et la biodiversité marine.
	Mr. K. Sivakumar, Scientist E,	EBSA Template	The coastal and marine ecosystems of peninsular India have been
	Wildlife Institute of India, Dehradun	1 - Important	surveyed in detail to identify and prioritize the 'Important Coastal and
	– 248001, India Email:	Coastal and	Marine Biodiversity Areas (ICMBA)' for their better management, in
	ksivakumar@wii.gov.in	<u>Marine</u>	addition to the existing Marine Protected Areas. This study followed
		<b>Biodiversity</b>	the standardized global, national and regional level approaches to
		Areas of India	develop criteria with several indicators which were later used to
			identify ICMBA sites in India. The site identification exercise began
			with six different targets that were often considered important features
India			for safeguarding coastal habitats and their biodiversity. Conservation-
			related targets were picked up from standard global approaches and
			designated 'conservation amplifiers' because they improve the
			opportunities for consideration or simply allocate more weight to
			protection measures. The tool was developed with six different criteria
			as conservation amplifiers and 26 subunits as indicators or goals
			respective to each criterion A total of 350 potential sites were surveyed
			all along coasts of peninsular India, of these, 106 sites were identified
			and prioritized as ICMBA.

	Mr. Talebi Matin	EBSA Template	Nayband marine-coastal national park is located in the northern coast
	Department of Environment of Iran	1 - Nayband	of the Persian Gulf. This area has a wide range of terrestrial and
	Email: hd_matin56@yahoo.com	<u>Bay</u>	marine habitats including coastal sand dunes, rocky, muddy and sandy
			shores, coral reefs, mangrove forests, seagrass meadows and estuaries.
Iran			Nayband Bay is the only coral reef area of mainland coastal waters of
			the northern Persian Gulf and one of the most important nesting sites
			and feeding grounds for hawksbill and green sea turtles in the area.
			Nayband Bay has a high diversity of marine and coastal habitats which
			is completely unique in the northern part of the Persian Gulf.
	Mr. Muhammad Moazzam Khan,	EBSA Template	Churna -Kaio Islands Complex which is located west of Karachi has
	Ex-Director General, Marine	1 - Churna-Kaio	an area of about 400 sq. km. It consists of a Churna island which is a
	Fisheries Department,	<u>Islands Complex</u>	medium sized island facing the Hub River Delta whereas a small islet
	Government of Pakistan, Karachi,		Kaio Island located near town of Gaddani. The area is known for high
	Pakistan, Email:		biodiversity because of a variety of habitats. It has diversified coral
	mmoazzamkhan@gamil.com		assemblage around Churna and Kaio Islands whereas at the mouth of
			the River hub there are rich mudflats and oyster reefs. Churna-Kaio
			Islands Complex is known to be important basking and feeding area
			for marine megafauna including baleen whales, whale shark, mobulids
			and sunfishes. Because of power plants and a substantially large ship
			breaking industry, the ecology of the area is seriously being affected.
			Considering high biodiversity and the threats it is facing the area
			requires international recognition as an EBSA.
Pakistan		EBSA Template	Daran-Jiwani area is an important habitat located at the Jiwani
		<u>2 - Daran-Jiwani</u>	headland. It extends from Ganz in the east to Jiwani sandy on the north
		<u>Area</u>	covering the entire Daran Jiwani Headland. The area of Daran is
			considered to be an important nesting ground for turtles whereas
			Jiwani headland and adjacent areas are known for high biodiversity of
			marine invertebrates. The area is also is known for high catches of
			fishes and lobsters. The area is also known for cetaceans which are
			found around the headland. The area is also rich is diversity of
			shorebirds. The ecology and biodiversity is being threatened because
			of planned development in the area. Considering the high biodiversity
			especially because of being nesting ground the area would be benefit
			from further international recognition as an EBSA
		EBSA Template	Khori Great Bank is located along southeast coast of Sindh province.
		3 - Khori Great	It extends from the coast to offshore waters covering an area of about

<u>Banl</u>	
	physical feature of the area is Indus Canyon, known as the Swatch.
	Khori Great Bank is known to be rich in biodiversity including
	cetaceans, sharks, fish and invertebrates. In this area and adjacent
	territory of India, Russian whaling fleet has massacred in 1968 about
	170 Arabian humpback whales (highest numbers in Indian Ocean)
	indicating the richness of the area. A number of species of cetaceans
	including rough-toothed dolphin and Longman's beaked whales have
	only been reported from the area. It is important fishing ground
	especially for large sharks whose population has dwindles in past 15
	years. Considering high biodiversity and the potential threats it may
EDG	face, the area requires international recognition as an EBSA.
	A Template Malan-Gwader Complex located along the Balochistan coast is
	significantly important as it cover two Ramsar sites i.e. Ormara Turtle
Gwa	
Com	*
	Ormara, Pasni and Gwader whereas largest island of Pakistan is also
	located within the Complex. Because of uniformity of the diversity of
	the area this complex stretching over an area of about 8,750 sq. km is
	constituted. This complex is specifically known for presence of
	population of a number of cetaceans species including dolphins and
	whales. Arabian humpback whale (Megaptera novaeangliae indica),
	blue whales (Balaenoptera musculus) and Bryde's whale
	(Balaenoptera brydei) are regularly recorded from the Complex.
	Although the importance of the area has two important Ramsar sites
	but it international recognition as an EBSA will ensure conservation of
	the biodiversity of the Malan-Gwader Complex.
EBS	A Template   Minai Hor is a lagoon located about 90 km northwest of Karachi is an
	diani Hor important area of high biodiversity famous for its diversified
	mangrove flora and rich population of both invertebrates and
	vertebrate animals. It is an important site for migratory and non-
	migratory bird species as well as a resident population of Indo-pacific
	humpback dolphin (Sousa chinensis). Fishing activities for catching
	shrimp and jellyfish are restricted within the lagoon. Community
	control on management of fisheries resources is a unique feature of the
	•
	area. The communities residing with the Miani Hor are fishermen by

			profession and their livelihood is dependant mainly on the resources within the Miani Hor. Mangroves of the area are threatened by sand dune migration and other anthropogenic factors. Considering high
			biodiversity it satisfies the criteria for Ramsar Convention and it
			further international recognition as an EBSA will help in protecting
			the fragile ecosystem of the area.
	Mr. Dirar Nasr Environmental	Sudan - EBSA	Sanganeb Marine National Park (SMNP) is one of the most unique
	Consultant; c/o HCENR, Khartoum,	Template 1	reef structures in the Sudanese Red Sea whose steep slopes rise from a
	Sudan		sea floor more than 800 m deep. It is located at approximately 30km
	E-mail: d_nasr47@hotmail.com		north-east of Port Sudan city at 19° 42 N, 37° 26 E. The Atoll is
			characterized by steep slopes on all sides. The dominated coral reef
			ecosystem harbors significant populations of fauna and flora in a
			stable equilibrium with numerous endemic and endangered species.
			The reefs are distinctive of their high number of species, diverse
			number of habitats, and high endemism. The atoll has a diverse coral
			fauna with a total of 86 coral species being recorded. The total number
			of species of algae, polychaetes, fish, and Cnidaria has been confirmed
			as occurring at Sanganeb Atoll. Research activities are currently being conducted; yet several legislative decisions are needed at the national
			level in addition to monitoring.
Sudan		Sudan - EBSA	Dungonab Bay is located approximately 125 km north of Port Sudan,
		Template 2	engulfing Mukkawar Island which is 30km offshore Dungonab
		<u> </u>	Peninsula. It lies within the Sudan national jurisdiction. The area was
			declared a Marine Protected Area in 2004; it contains extensive and
			diverse seagrass beds, a regionally important population of dugong,
			regionally or globally important nesting areas for marine turtles and
			seabirds, and seasonal aggregations of whale sharks and manta rays
			that are unique in the entire western Indian Ocean region. The area is
			known to be of particular significance for birds and is designated as an
			Important Bird Area. The eastern shore of Mukawwar Island is a turtle
			nesting site of regional and possibly international significance. The
			Dugongs population occurring in Dungonab Bay/Mukawwar Island
			may be the most important remaining on the coast of Africa
			(PERSGA, 2006). Dungonab Bay and Mukkawar Island National Park
			falls under the Game Protection and the Federal Parks Act (1986).

	Mr. Abdulkarim A N Saeed, Sana'a	EBSA Template	Al Mahra is the most easterly governorate in Yemen, extending from
	University, Yemen, E-mail:	1 - Al Mahra	Hadhramout to the boarders with Oman. Its long coastline is mainly
	karimnasher@yahoo.com		sandy intercepted with rocky areas. Several species of sea birds,
	·		sharks, and dolphins are seen along Al Mahra waters at different times
			the year. Two locations, where my activities are going on, are
			important sites for green turtle nesting.
		EBSA Template	Sharma-Jethmoun-Dhargha Beach has long been recognized as an
		<u> 2 - Sharma-</u>	important marine sea nesting area, intended to be officially declared
		Jethmoun-	protected area. It is, so far, the longest beach in Yemen, over 50 km
Yemen		<u>Dhargham</u>	long, where thousands of green turtle visit to nest during April to
			November, with a peak from June to September every year. Our
			survey is limited to three sites which make a total of 12.5 km
		EBSA Template	Socotra Archipelago represents a unique environmental group of
		3 - Socotra	islands, with very significant marine habitats that have been identified
		<u>Archipelago</u>	and classified into four conservation zones. Sharks, dolphins and
			whales are frequently seen at different sites around the island (Foad
			Nsseeb, per. Comm.). However, my experience in Socotra is limited to
			conservation of loggerhead sea turtles which nest along Abalhen beach
			during May to September each year. (see Google earth map).
	Mr. Umair Shahid, WWF-Pakistan,	EBSA Template	Astola Island is the only significant offshore island along the north
	North Indian Ocean Coordinator,	1 - Astola Island	coast of the Arabian Sea. There is sparse vegetation on the island
	ushahid@wwf.org.pk		comprising of halophytic plants indicating the saline nature of the soil.
			Lithophytes (Lichens), aquatic weeds, sea urchins, sea anemones and
			corals have also been seen on the coast. Large mammals are not
			known to have existed on the island, however small terrestrial
			mammals like rodents and small cats inhabit the island. Many types of
WWF-			migratory and resident birds can be seen on Astola Island. Water fowl
Pakistan			migrate through the area twice a year and use the island as a staging
Pakistan			and wintering ground. The sea off the island's coast are known pristine
			and comprise of pelagic and demersal species. Coral reefs are also
			found around the Island. The area is also rich in supporting life for
			cetaceans.
		EBSA Template	Charna Island is a small inhabited island of Pakistan, in Arabian Sea.
		2 - Churna	The island provides excellent habitat for coral reefs to grow and form
		<u>Island</u>	a thriving ecosystem maintaining important ecological processes and
			flag ship species. The island is famous for Whale Sharks basking and

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	has been reported to support reef communities. Marine life around
	Charna include poisonous sea snakes, barracuda, narrow-barred
	Spanish mackeral, cobia, dorado, tuna, angel fish, sea urchin, sea fan,
	oyster, ray fish and rare green turtles. They are also important for
	cetacean sightings. Charna island also hosts Pakistan game fishing
	association events and is popular for scuba diving activities. Moreover,
	it is important to conduct scientific research on a regular basis.
EBSA Template	The Indus Fan with its 1500 Km length, 960 Km maximum width, and
3 - Indus delta	1.1 x 10 (power of 6) sq. Km. area, is the most extensive
and Indus	physiographical province of the Arabian Sea in the northwest Indian
Canyon	Ocean. It is bounded by the continental margin of India-Pakistan and
<u>Curry orr</u>	ChagosLaccadive ridge on the east, by the Owen and Murray ridges on
	the west and north and by the carslberg ridge in the south. The shelf-
	break occurs at about 100 m depth along the IndiaPakistan margin.
	The Indus River system has been the dominant supplier of sediments
	in the Indus Fan. The Indus Canyon or the Swatch area is productive
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	in its nature and lacks qualifying data. However through observer
	program reports run by WWF-Pakistan it has been reported that the
TDC + T	area is rich in Tuna, Billfish, forage fish, Cetaceans and Sharks.
EBSA Template	Sandspit and Hawks Bay beaches and the adjoining areas including the
4 - Sandspit-	backwaters (adjoining areas herein referred to as 'backwaters')
<u>Hawks Bay</u>	provide excellent habitats for a thriving ecosystem. The adjacent areas
	comprise of a dense mangrove forest which provides a highly
	productive environment conducive for sustaining the diversity in the
	area. The area is a complex of coastal wetlands and contains shallow
	tidal lagoons, intertidal mudflats, saltpans, estuaries, saline pond,
	mangrove swamps and sandy beach that provides excellent habitat for
	sea turtle nesting. The backwaters provide habitat for vertebrate and
	invertebrate species, both pelagic and benthic communities form
	association and is considered an important spawning ground. Unique
	populations of hydrozoans, copepods, amphipods are also found here.
	With the presence of abundant forage fish, crabs, shrimps, fishes, and
	migratory birds, the backwaters and the coastal waters of
	Sandspit/Hawks bay area offer important feeding area for a number of
	cetaceans including humpback dolphins, common dolphins and finless
	porpoise.
	porporoe.

<u> </u>	EBSA Template	Miani Hor is a lagoon located on southwestern coast of Balochistan at
<u>5</u>	<u>5 - Sonmiani</u>	a distance of 90 km from Karachi. The average width of this lagoon is
<u> </u>	<u>Bay</u>	7 km, with a narrow and shallow connection with the open sea. The
		large sand complex on the east side of the Las Bela Valley, West
		Pakistan, is thought to have been derived from the nearby mountain
		ranges rather than from an exposed continental shelf. Sea level
		changes and Recent tectonism complicate the sequence of events
		(Snead and Frishman, 1968). The lagoon is of special significance for
		migratory and resident birds as it has been declared a Ramsar site and
		is the only habitat in Pakistan where three species of mangroves that
		is, Avicenia marina, Rhizophora mucronata and Ceriops tagal are
		found encapsulated by shifting sand dunes. Biological diversity is rich
		in the area and comprises fishes, crustaceans, cetaceans and provides
		economic benefits to the local communities.

Table 2. Other scientific information submitted in support of the workshop objectives

Party/org. of	Author(s)/Contributor	Title/Contents of submission
submitter		
India	K. Saravanan, B.C. Chowdhury & K. Sivakumar (2013)	Submission 1-Important coastal and marine biodiversity areas on the
Illula		East coast of India
	Talib A. Khalaf, Mohammad Ali, Shaker G. Ajeel	Submission 1-Is the Northwestern Arabian Gulf a biodiversity
		<u>hotspot</u>
		Submission 2-Role of Shatt al-Arab River
	Talib Abbas Khalaf	
	Professor	
T	Marine Biology, Marine Science Centre	
Iraq	University of Basrah	
	Basrah, Iraq	
	Email: drtalibabbas@hotmail.com; talib_kh@yahoo.com	
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	Abdullah Y. Khudhair, Talib A. Khalaf, Shaker G. Ajeel	Submission 3 - Estimation of heavy metals in zooplankton organisms,
	and Ramiz Saad	of NW Arabian Gulf
Emirates	Nicolas J. Pilcher on behalf of EWS-WWF	Submission 1- Marine Turtle Conservation Project-Final Scientific
Wildlife		Report
Society-	Nicolas J. Pilcher et al.	Submission 2-Short-term behavioural responses to thermal stress by

WWF	Marine Research Foundation, 136 Lorong Pokok Seraya 2, Taman Khidmat, 88450 Kota Kinabalu, Sabah, Malaysia. Tel./fax: +60 88 244089. E-mail: npilcher@mrf-asia.org	hawksbill turtles
	Nicolas J. Pilcher et al.  Marine Research Foundation, 136 Lorong Pokok Seraya 2, Taman Khidmat, 88450 Kota Kinabalu, Sabah, Malaysia. Tel./fax: +60 88 244089.  E-mail: npilcher@mrf-asia.org	Submission 3-Identification of Important Sea Turtle Areas for hawksbill turtles
	Sattar S.A., Anderson R.C. and Adam M.S. (compilers) (2009) Report of the Indian Ocean Cetacean Symposium 2009, held at Paradise Island Resort and Spa, Maldives, 18-20 July 2009. Marine Research Centre, Maldives. 46pp. Revised edition 2012. www.mrc.gov.mv	GOBI - Submission 1 - 2009 Indian-Ocean-Cetacean-Symposium-Report
	V.V. Asal et al. E-mail: vafsal@gmail.com	GOBI - Submission 2 - A note on cetacean distribution in the Indian EEZ and contiguous seas during 2003-07
GOBI	Robert Baldwin E-mail: wosoman@gto.net.om Koen Van Waerebeek E-mail: kvwaere@mail.cosapidata.com.pe Michael Gallagher E-mail: michaelgallagher2@compuserve.com	GOBI - Submission 3 - A Review of Small Cetaceans from Waters off the Arabian Peninsula
	Robert Baldwin, E-mail: wosoman@gto.net.om Michael Gallagher E-mail: michaelgallagher2@compuserve.com Koen van Waerebeek e-mail: kvwaere@mail.cosapidata.com.pe	GOBI - Submission 4 - A Review of Cetaceans from Waters off the Arabian Peninsula

	Gillian T. Braulik et al. E-mail: GillBraulik@downstream.vg	GOBI - Submission 5 - Marine Mammal Records from Iran
	Peter J. Corkeron, Gianna Minton, Tim Collins, Ken Findlay, Andrew Willson, Robert Baldwin	GOBI - Submission 6 - Spatial models of sparse data to inform cetacean conservation planning: an example from Oman
	Costa M., Cesario A., Fumagalli M., Heinrich S. and Notarbartolo di Sciara	GOBI – Submission 7 - Abundance of dolphins in the southern Egyptian Red Sea
	Dr. Hamed Mohammed Al Gheilani Marine Science and Fisheries Center Ministry of Fisheries Wealth Muscat, Oman Email: asadalaqidah@gmail.com	GOBI – Submission 8 – Whales and Dolphins in Arabian Sea: Arabian Sea Survey (2007-2008)
	Giuseppe Notarbartolo di Sciara et al.	GOBI - Submission 9 - Summary review of cetaceans of the Red Sea
	Cristina Pomilla, Ana R. Amaral, Tim Collins, Gianna Minton, Ken Findlay, Matthew S. Leslie, Louisa Ponnampalam, Robert Baldwin, Howard Rosenbaum	GOBI - Submission 10 - The World's Most Isolated and Distinct Whale Population? Humpback Whales of the Arabian Sea
	Kumaran Sathasivam 29 Jadamuni Koil Street, Madurai 625001, India	GOBI – Submission 11 - A Catalogue of Indian Marine Mammal Records
GOBI	Compiled by the acting secretariat on Important Marine Mammal Areas (IMMAs) and the IUCN Joint SSC- WCPA Marine Mammal Protected Areas Taskforce (MMPATF)	GOBI – Submission 12 - Submission of marine mammal information for the assistance in identifying Ecologically or Biologically Important Marine Areas (EBSAs) at the Northwest (Dubai) and North-east (Colombo) EBSA Regional workshops 2015
Manta Trust	Stevens, G., Fernando, D. and Ender, I.	Manta Trust - Submission 1- Submission of information on mobulid species in support of the Northeast (Dubai) and Northwest (Colombo) Indian Ocean EBSA workshops
Regional Organization for the	PERSGA	Submission 1 - State of the Marine Environment - Red Sea and Gulf of Aden 2006
Conservation of the Environment	NCWCD and PERSGA	Submission 2 -KSA - Mangrove Map Distribution 2010

of the Red	PERSGA	Submission 3 - Status of Mangroves in Red Sea and Gulf of Aden,
Sea and Gulf of Aden		2004
(PERSGA)	PERSGA	PERSGA - Submission 4 - Status LMR in Red Sea and Gulf of Aden
	PERSGA	PERSGA - Submission 5 - Status of Breeding Seabirds in Red Sea and Gulf of Aden
	PERSGA	Submission 6 - Status of coral reefs in Red Sea and Gulf of Aden 2009
Regional Organization	ROPME	ROPME - Submission 1-ROPME Oceanographic Cruise - Winter 2006
for the Protection of	ROPME	ROPME- Submission 2-ROPME State of the Marine Environment
the Marine		<u>Report 2013</u>
Environment		
(ROPME)		