

REPORT ON THE CONSERVATION STATUS OF CETACEANS AND RELEVANT ACTIVITIES IN CENTRAL MEDITERRANEAN

Introduction

The aim of this report is to give a global vision of what occurred in the Region, regarding cetacean conservation, since the previous report, and what is important to address for the next period/in a near future. So the regional representative will synthetize the main studies (species, topics) led in the region, concerning research, monitoring and conservation, also the main "hot" topics or threats that need to be addressed and what is awaited from the Scientific Committee (and ACCOBAMS) for the next triennium as recommendations.

Countries of Central Mediterranean region

Albania, Croatia, Greece (western coast), Italy (Adriatic coast), Libya, Malta, Montenegro, Slovenia, Tunisia (eastern coast).

Overview of activities in the Region since the previous report:

Albania:	There are no known specific studies on cetaceans in the Albanian waters at present time.
Croatia:	1) Continuous monitoring and photo-ID study of common bottlenose dolphins is being carried out
	in all six N2K sites in Croatia dedicated to this species, where also biopsy samples are collected; (2)
	A year-round passive acoustic monitoring is being carried out on several location along the eastern
	Adriatic coastal and offshore waters; (3) Surveys on deep diving cetaceans aimed at establishing
	densities and habitat use in offshore area of southern Adriatic were carried out (4) Targeted surveys
	focusing on a possible re-colonization of central Adriatic by common dolphins are being carried out;
	(5) Studies on dolphin-fisheries interaction mitigation in northern Adriatic were carried out as part
	of LIFE Delfi project (<u>https://lifedelfi.eu/</u>); (6) monitoring of solitary common dolphins is carried out
	(7) a Citizen science program involving tourists and locals in data collection via the Marine Ranger
	website (<u>www.marine-ranger.org</u>) and mobile app continues providing relevant data on Cetacean
	observations in the Adriatic and Mediterranean; 7) Data on stranded, injured and by-caught animals
	is being collected.
Greece	Ongoing studies are carried out in the Ionian Sea archipelago, the Gulf of Ambracia, the Gulf of
(<u>Western</u>	Corinth and along the Hellenic Trench, via boat surveys, photo-identification, biopsy sampling,
<u>coast</u>):	acoustic surveys and aerial photogrammetry, focusing primarily on common bottlenose dolphis,
	common dolphins, striped dolphins, sperm whales and Cuvier's beaked whales.
	Fixed-line ferry-based surveys are ongoing in the ferry lines connecting Italy and Greece.
Italy:	Continuous boat-based and photo-identification studies are ongoing in the Friuli Venezia Giulia,
	Veneto and the Gulf of Taranto, focusing primarily on common bottlenose dolphins and Risso's
	dolphins, focusing on population abundance, behaviour, interaction with fisheries, distribution and
	habitat use.
	Fixed-line ferry-based surveys are ongoing in the ferry lines connecting Italy and Greece.
	Collection and necropsies of stranded animals is carried out along the entire Italian coast of the
	Adriatic Sea.
Libya:	No activities related to cetacean research and conservation are currently known to be carried out.
Malta:	Data on cetaceans is collected via examination of stranded animals and boat-based surveys.
Montenegro:	Photo-ID and land-based research is carried out in south Montenegro. Opportunistic information
	on sightings and strandings are also collected.
Slovenia:	Continuous year-round research and monitoring of common bottlenose dolphins is carried out in
	the Gulf of Trieste and surrounding waters of the northern Adriatic Sea, via land-based and boat-

	based surveys, photo-identification and mark-recapture, biopsy sampling, passive acoustic		
	monitoring, underwater noise monitoring, and the use of unmanned aerial vehicles (UAVs) and		
	environmental DNA (eDNA), focusing on population dynamics, social structure, behaviour, habitat		
	use, interactions with fisheries, foraging ecology, chemical pollutants and body condition. Data on		
	other cetacean species occurring in the area occasionally, such as common dolphins and fin whales,		
	is also collected. Necropsies are carried out on all reported stranded and bycaught animals.		
Tunisia	Boat-based surveys with photo-identification are carried out in various parts of Tunisian waters,		
(<u>Eastern</u>	with recent studies focusing also on dolphin-fishery interactions, using passive acoustic		
<u>coast</u>):	monitoring.		

Major issue(s) or main threats or "hot" topics that have emerged during the said period for the Region:

Albania:	NR: No major special problem for cetaceans during the last two years in the region. Incidental by-catch is reported occasionally by fishermen.
Croatia:	Interaction with fisheries and in particular depredation and gear interaction and entanglement are a burning issue causing a lot of concern. In addition, increase in marine traffic (particularly during tourist season) and ubiquitous noise continue to cause habitat degradation and disturbance. Unregulated dolphin watching is also a cause for concern in some areas.
Greece (Western coast):	NA
Italy:	NA

Libya:	NR: There has been no major special problem for cetaceans during the last two years in
	the region
Malta:	Noting that impacts from marine litter, underwater noise and ship strikes are
	omnipresent throughout the Mediterranean, it is deemed pertinent to continue
	providing capacity building regarding common methodologies for assessment of such
	impacts
Montenegro:	Strategy on the Conservation of Cetaceans in the Adriatic Sea for the period 2016 -
	2025 - recognize a threats and their impacts on cetaceans in the Adriatic sea. To date
	when Strategy was developed (2015.), eight types of threats have been identified, with
	bycatch and marine debris being assessed as the most significant ones in terms of
	severity of impacts and number of cetacean species they may affect. However, it
	should be stressed that assumptions were given based on scarce data about actual
	impact. For instance, existing stranding data indicates relevance of bycatch, but do not
	show the accurate state. The significance of climate change is least known, but due to
	geographical features of the Adriatic, it it expected this is an important issue to tackle
	in the future.
Slovenia:	None reported.
Tunisia (Eastern coast):	The existing data on abundance and density are very old (INSTM-2005 campaign) and
	also geographically limited (ASI-2018).
	In Tunisia, like most countries in the Mediterranean, the threats to cetaceans are
	generally linked to the concentration of human activities and mainly to fishing activity.
	dolphins are now considered by professional fishermen as real competitors for access
	to fishery resources, hence the problems of depredation, bycatch and stranding.

Recommendations / suggestions for Improvement of the conservation:

Albania:	Training activities for the capacity building, in particular necropsy for veterinarians is a
	necessity. National stranding network to be established as soon as possible. So far only
	incidental cases of stranding are reported by the fisherman.

implemented through some pilot actions after that. There is a need for its revision and updated since it is more than 10 years of its preparation.Centre for Fauna and Flora Research (under the Faculty of Natural Sciences) in the framework of the annual monitoring projects, coordinated by National Environment Agency of Abbania, is involved in the monitoring of catacans species. However, due to the limited funds the monitoring is not comprehensive and it does not cover all cetaceans' species Croatia: Developing and funding of targeted dolphin-fisheries studies investigating local phenomenon and possibly proposing mitigation measure. Funding of continuous Cetacean monitoring activities. Developing dolphin-watching monitoring (licensing) scheme. Advancing studies of deep diving cetaceans in the southern Adriatic. Greece (Western coast): Italy: Italy suggests the recommendation of utmost caution in the case of studies that require study practices that make use of potentially invasive techniques. Indeed, any activities involving the disturbance of species of Annex IV of the Habitats Directive, such as biopsies, satellite markings, active acoustics experiments (including the use of pingro, etc., must be authorized by departern displacements make use of tox toypes of techniques: 1) skin biopsy J satellite telemetry and such techniques, if not correctly conducted (there are international studies produced in the light of various experiences in various parts of the world) can cause serious disturbance and have harmful effects to the speciems. In particular, these techniques, especially skin biopsy, have spread strongly in the Mediterranean and are now also used by nascent groups with little or no experience, elements that increase the danger of causing harm. Therefore, Italy requests more attention		The national plan for cetaceans conservation is elaborated in 2006 initially and has been
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Identification of IMMA and CCH areas.		Standardization of observation technique and data analysis.
		Identification of IMMA and CCH areas.

Published papers in 2023-2024 relevant to the Central Mediterranean

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