

Appendix II - DATA EXTRACTION FORM

1. REFERENCE OF STUDY:

2. GENERAL INFORMATION ON THE MPA STUDIED

2.1 NAME:

2.2 COUNTRY:

2.3 LATITUDE & LONGITUDE:

2.4 YEAR OF ESTABLISHMENT:

2.5 OBJECTIVES/TARGETS OF MPA:

(eg. biodiversity conservation, stock replenishment of fish species x, conservation of seagrass meadows, conservation of cobble reefs / horse mussel beds)

2.6 PROTECTION REGIME WITHIN MPA:

2.7 IS THERE A ZONATION SCHEME IN PLACE? IF YES, NAME THE ZONES:

2.8 Give a description / list of activities that are prohibited and of any others that are allowed inside the MPA since its establishment (If a zonation scheme is in place mention activities for each zone separately) Example in Box 1

ACTIVITIES PROHIBITED:

ACTIVITIES ALLOWED:

Box 1. Level of protection and fishing uses allowed and banned in the different fishing management categories considered within and around the 2 marine reserves studied (taken from Tuya *et al.* 2006. *Ciencias Marinas*, 32(3): 505-522).

Categoría de gestión <i>Management category</i>	Protección <i>Protection</i>	Usos <i>Uses</i>
Reserva integral (RI) <i>Integral reserve</i>	Alta <i>High</i>	Prohibida la pesca profesional y deportiva de recursos bento-demersales. <i>Commercial and sport fishing of benthic and demersal resources prohibited.</i>
Zona de usos tradicionales o zona de amortiguación (ZA) <i>Traditional fishing zone or buffer zone</i>	Media <i>Medium</i>	Prohibido el uso de nasas (trampas) y la pesca submarina. Pesca profesional: permitido el uso de aparejos de anzuelo y artes tradicionales dirigidos a (i) la salema (<i>Sarpa salpa</i>), (ii) especies pelágicas migratorias (túridos), (iii) gueldes (gueldera), morenas (murénidos, tambor de morenas) y (iv) crustáceos profundos (trampa o nasa de camarón). Pesca deportiva: permitido el uso de aparejos de anzuelo (curricán, caña y/o cordel). <i>The use of traps or underwater fishing prohibited.</i> <i>Commercial fishing: the use of hook and traditional fishing gear allowed on (i) salema (Sarpa salpa), (ii) migratory pelagic species (tunids), (iii) guelds (minnows, "gueldera") and morays (net drum), and (iv) deep crustaceans (shrimp trap or pot).</i> <i>Sport fishing: the use of hook gear permitted (spinning tackle, hook-and-line).</i>
Área vecina (AV) <i>Neighbouring fishing area</i>	Ninguna <i>None</i>	Pesca profesional: todo tipo de artes permitido. Pesca deportiva: permitido el uso de aparejos de anzuelo (curricán, caña y/o cordel). <i>Commercial fishing: all types of fishing gear permitted.</i> <i>Sport fishing: the use of hook gear permitted (spinning tackle, hook-and-line).</i>
Isla vecina (IV) <i>Neighbouring island</i>	Ninguna <i>None</i>	Pesca profesional: todo tipo de artes permitido. Pesca deportiva: permitido el uso de aparejos de anzuelo (curricán, caña y/o cordel) y la pesca submarina. <i>Commercial fishing: all types of fishing gear permitted.</i> <i>Sport fishing: the use of hook gear (spinning tackle, hook-and-line) and underwater fishing permitted.</i>

2.9 Describe/list any activities/uses of the area within MPA prior to its establishment

2.10 Describe/list any activities/uses of the area outside the MPA (i.e. the control areas used in the study. For example: commercial fishing for scallops using scallop dredge, anchorage, gas exploration)

2.11 SIZE OF MPA OR SIZE EACH ZONE WITHIN THE MPA IF THESE WERE STUDIED

2.12 GIVE A BRIEF HABITAT DESCRIPTION OF AREA STUDIED (e.g. hard bottom which include rocky reefs, gravel; soft bottom which include sand, muddy sand, mud; biogenic habitat)

2.13 DISTANCE FROM NEAREST MPA:

2.14 Give the approximate distance of the transects sampled outside the reference area from the MPA boundary (If exact distance is not known choose one of the following categories: < 1km; 1 - 2km; 2 – 5km; 5 – 10km; 10 -15km; > 15km)

2.15 HOW ARE REGULATIONS ENFORCED INSIDE MPA? (e.g. daily patrol, on-site wardens, none)

3. DATA COLLECTION STRATEGY

3.1 TIME PERIOD OF DATA COLLECTION:

3.2 CENSUS METHOD USED (e.g. diver visual census using belt transects/point counts; baited video stations; sampling using quadrats/nets/dredges/trawls; photography and % cover visual estimation for macrobenthic organisms)

3.3 SAMPLING DESIGN USED

Include (a) number of sites sampled inside and outside the MPA or within each zone inside the MPA if these were studied

(b) number of replicates (quadrats or transects or trawl haul) per site

If the study is a Before-After Control-Impact (BACI) study include information on the before and after sampling strategy.

4. DATA COLLECTED

4.1 TAXA STUDIED (include name of species studied at the lowest possible taxonomic level)

4.2 STATUS OF SPECIES RECORDED (e.g. targeted by commercial fisheries)

4.3 BIOMETRIC MEASURED (Choose from the following: change in species richness, biodiversity indices, density (or other abundance measure), biomass, body size, reproductive output, growth rate)

4.4 DEFINE UNIT AREA OF MEASUREMENT USED (e.g. number of indivs./100m²)

4.5 Provide data for each taxon and biometric measure recorded as shown below. Data includes values for (a) n = sample size for mean values
(b) mean
(c) sd = standard deviation
(d) var = any other measure of variance

Biometric: Density																
Inside MPA									Outside MPA (control)							
	Before establishment				After establishment				Before establishment				After establishment			
Taxon	n	mean	sd	var	n	mean	sd	var	n	mean	sd	var	n	mean	sd	var
a																
b																
c																

[illegible]

Biometric: Species richness																
Inside MPA									Outside MPA (control)							
	Before establishment				After establishment				Before establishment				After establishment			
Taxon	n	mean	sd	var	n	mean	sd	var	n	mean	sd	var	n	mean	sd	var
A																
B																
C																