

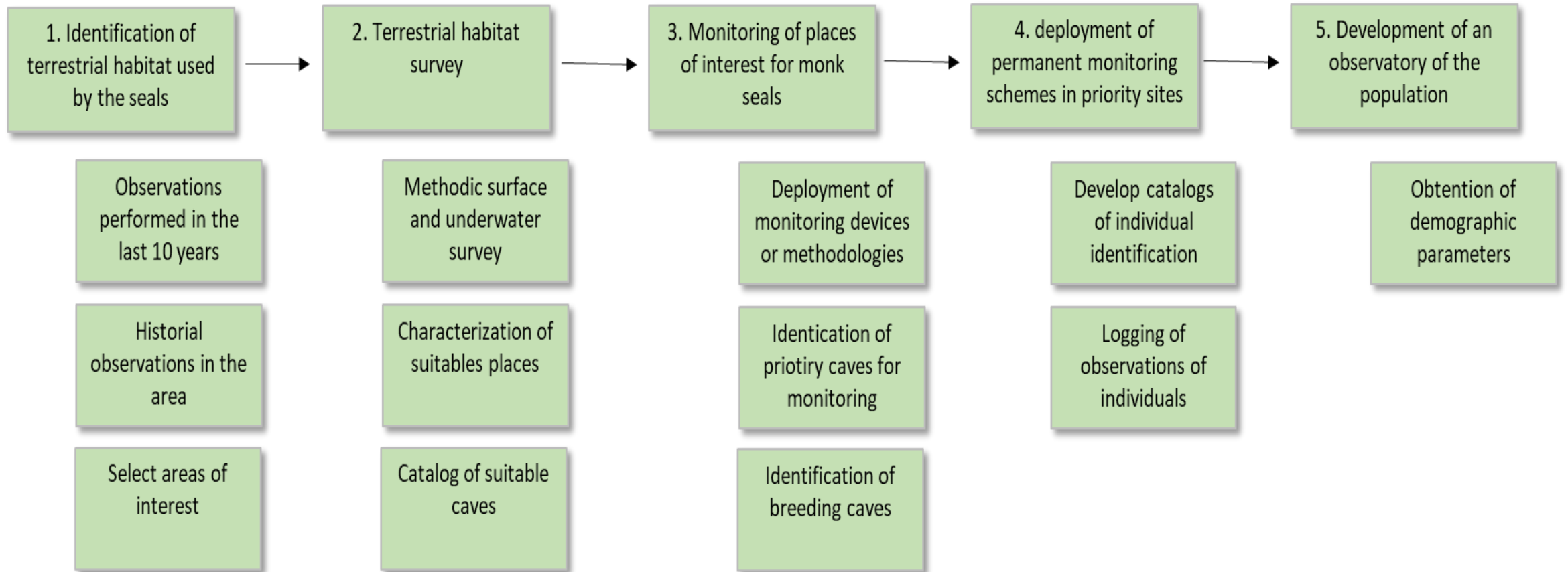


Monitoring Framework

Monk Seal Alliance Forum

Athens, Feb. 2023

Step by Step process *(extracted from Atlantic protocol)*



Common Demographic Parameters according to capabilities and situation

These indicators can be obtained through time, if the monitoring effort is maintained and enough

¿Does the pictures allow you to identify the sea	indicators that can be obtained	Necessary tools	Verification sources
No	<ul style="list-style-type: none"> N° of caves used by the seals Use pattern of the caves Estimated number of pups born Abundance index through counts if you maintain monitoring effort 		<ul style="list-style-type: none"> Pictures with seals Pups pictures
Yes			
	<ul style="list-style-type: none"> N° of caves used by the seals Use pattern of the caves 		<ul style="list-style-type: none"> Pictures with seals
identify the pup and its gender	<ul style="list-style-type: none"> Minimum number of pups born Sex ratio of pups born 	<ul style="list-style-type: none"> Annual pups catalog Recaptures of pups 	<ul style="list-style-type: none"> Annual pups catalog Pictures of recaptures of pups
If you still can recognize pups after 1st molt	<ul style="list-style-type: none"> 0 - 2 months old survival rate 	<ul style="list-style-type: none"> Youngsters catalog Youngsters recaptures 	<ul style="list-style-type: none"> Youngsters catalog Pictures of youngsters recaptures
If you can identify breeding females or females with maternal or breeding behaviors (lactations, pup search, stealing other pups, etc.)	<ul style="list-style-type: none"> Number of breeding females reproductive rate 	<ul style="list-style-type: none"> Breeding females catalog Recaptures of breeding females 	<ul style="list-style-type: none"> Breeding females catalog Pictures of recaptures of breeding females
If you can identify the animals from the pictures	<ul style="list-style-type: none"> Population size Adult males number Annual growth rate of the population 	<ul style="list-style-type: none"> Grey animals catalog Adult males catalog Recaptures of the animals 	<ul style="list-style-type: none"> Grey animals catalog Adult males catalog Pictures of the recaptures of the animals
and gender to the identified animals	<ul style="list-style-type: none"> Population structure Population piramid Population sex ratio Survival rate of the different age and gender categories Annual recruitment of animals older than 1 year 	<ul style="list-style-type: none"> Population catalog structured by age and gender Recaptures of the animals 	<ul style="list-style-type: none"> Population catalog Pictures of the recaptures of the animals