





The non-indigenous species & the Barcelona Convention

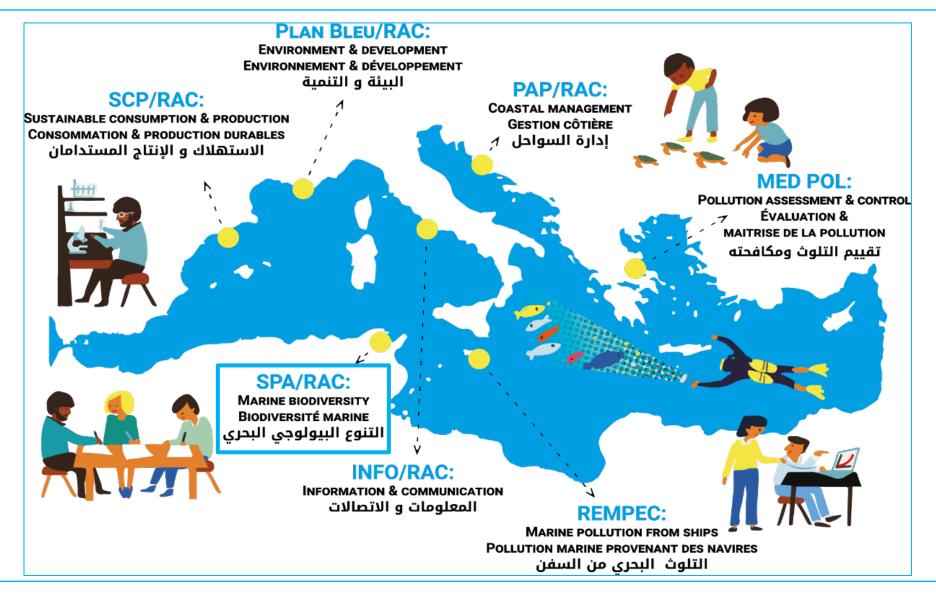
Atef OUERGHI, Programme Officer - Ecosystem Conservation, Mediterranean Biodiversity Centre

MAP System







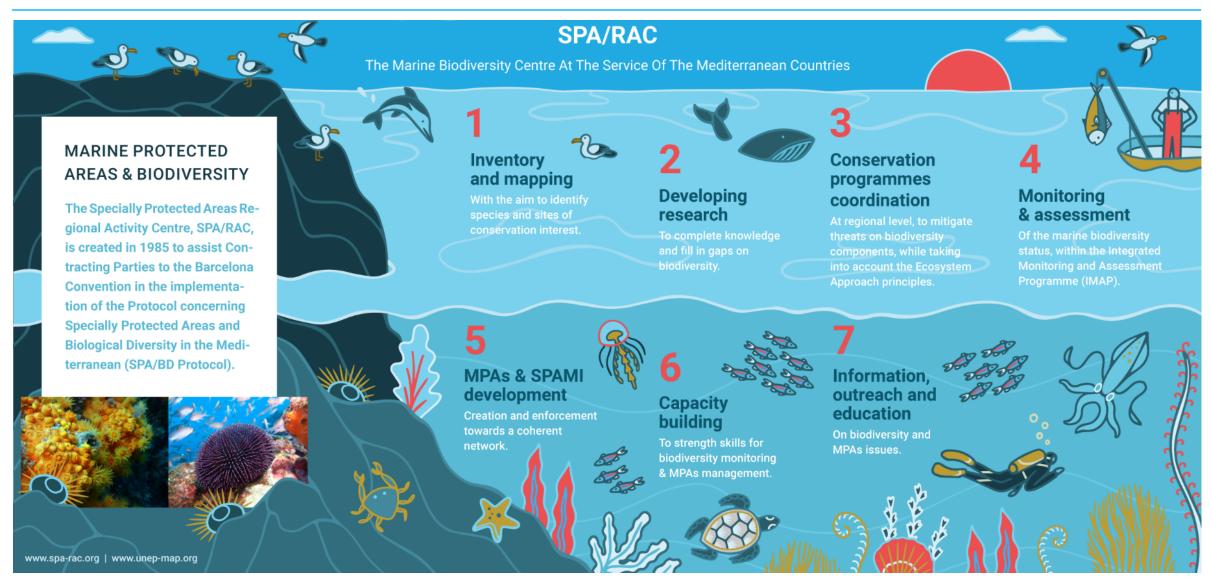


Le SPA/RAC, Mediterranean Biodiversity Centre









Legal Framework







PROTOCOL CONCERNING SPECIALLY PROTECTED AREAS AND BIOLOGICAL DIVERSITY IN THE MEDITERRANEAN











United Nations Environment Programme Mediterranean Action Plan



INTRODUCTION OF NON-INDIGENOUS OR GENETICALLY MODIFIED SPECIES

- The Parties shall take all appropriate measures to regulate the intentional or accidental introduction of non-indigenous or genetically modified species to the wild and prohibit those that may have harmful impacts on the ecosystems, habitats or species in the area to which this Protocol applies.
- 2. The Parties shall endeavour to implement all possible measures to eradicate species that have already been introduced when, after scientific assessment, it appears that such species cause or are likely to cause damage to ecosystems, habitats or species in the area to which this Protocol applies.

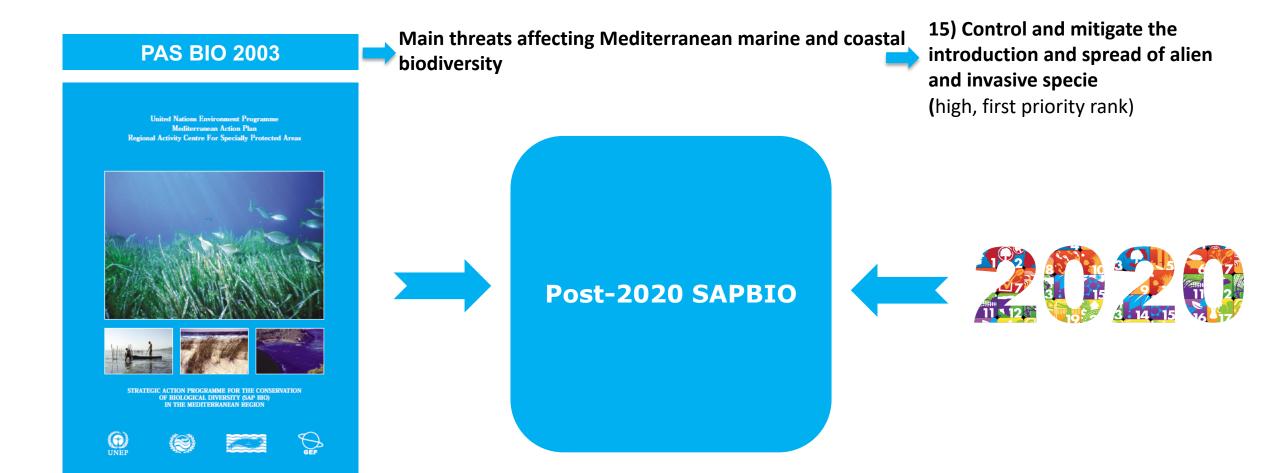


SAP/BIO: Strategic Action Programme for the conservation of UN **Biological Diversity in the Mediterranean Region**







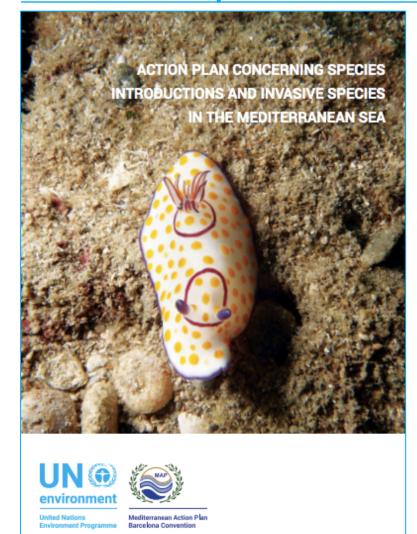


Action Plan concerning species introduction and invasive species









Regional Strategy outlines objectives, priorities, and implementation measures in different fields as well as their coordination

Action Plan concerning species introduction and invasive species (updated in 2016)







A. OBJECTIVES OF THE ACTION PLAN

- 14. The main objective of the present Action Plan is to promote the development of coordinated efforts and management measures throughout the Mediterranean region in order to prevent as appropriate, minimize and limit, monitor, and control marine biological invasions and their impacts on biodiversity, human health, and ecosystem services, particularly by:
 - 1. strengthening the capacity of the Mediterranean countries to deal with the issue of alien species, within the framework of the EcAp;
 - 2. supporting a regional information network for the efficient exploitation of alien species data and to support the regional policies on biological invasions;
 - 3. further developing MAMIAS, an online platform for the collection, exploitation, and dissemination of information on marine biological invasions in the Mediterranean Sea to support relevant regional and international policies;
 - 4. strengthening the institutional and legislative frameworks at the level of the countries of the region;
 - conducting baseline studies and establishing monitoring programmes, within the framework of the EcAp Integrated Monitoring and Assessment Programme, to collect reliable and pertinent scientific data that can be used for decision-making where necessary;
 - 6. setting up mechanisms for cooperation and the exchange of information among the Mediterranean countries;
 - 7. Elaborating guidelines and any other technical documentation.



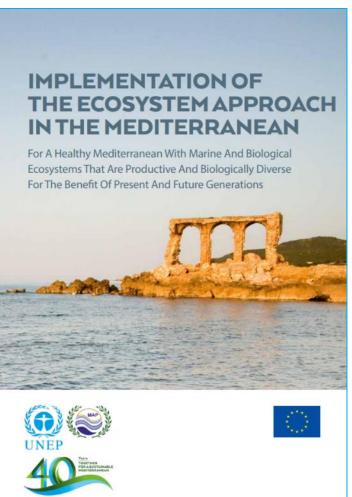
The Ecosystem Approach in the Mediterranean











IMAP:

Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria







PROGRAMME DE SURVEILLANCE ET D'ÉVALUATION INTÉGRÉES DE LA MER ET DES CÔTES MÉDITERRANÉENNES ET CRITÈRES D'ÉVALUATION CONNEXES





Plan d'Action pour la Méditerran

44. The common indicator in relation to NIS is:

COMMON INDICATOR 6: Trends in abundance, temporal occurrence, and spatial distribution of non-indigenous species, particularly invasive, non-indigenous species, notably in risk areas (EO2, in relation to the main vectors and pathways of spreading of such species in the water column and seabed, as appropriate):

45. Non-indigenous species monitoring in the Mediterranean is a trend monitoring, where it is key to establish reliable, long-term data-sets as a first step of monitoring.

46. In addition, monitoring of non-indigenous species (NIS), following the risk based approach, needs to be focused on the invasive alien species (IAS) in IAS introduction "hot spots" (e.g. ports and their surrounding areas, docks, marinas, aquaculture installations, heated power plant effluents sites, offshore structures). In addition, areas of special interest such as marine protected areas or lagoons may be selected on a case by case basis, as appropriate, depending on the proximity to alien species introduction hot spots.

50. As the most effective monitoring method a Rapid Assessment Survey (RAS) will be carried out, at least yearly by the Contracting Parties in hot-spot areas (e.g. ports and their surrounding areas, docks, marinas, aquaculture installations, heated power plant effluents sites, offshore structures).

51. In addition, UNEP/MAP will develop during the initial phase of IMAP citizen survey guidance for NIS, to enable Contracting Parties to use this additional cost-efficient methodology, which also strengthens public awareness and participation.



IMAP:

Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria











UNEP(DEPI)/MED WG.431/Inf.14



7 April 2017 Original: English

Thirteenth Meeting of Focal Points for Specially Protected Areas Alexandria, Egypt, 9-12 May 2017

Agenda item 9: Assistance in the implementation of the first phase of the Integrated Monitoring and Assessment Programme (IMAP) on biodiversity and non-indigenous species in the framework of the EcAp roadman

Guidance on developing invasive alien species national and sub-regional lists

For environmental and economy reasons, this document is printed in a limited number and will not be distributed at the meeting. Delegates are kindly requested to bring their copies to meetings and not to request additional copies.

48. Based on existing regional databases, such as the Marine Mediterranean Invasive Alien Species database, (MAMIAS), the "Andromeda" invasive species database for the Mediterranean and Black Sea, and the European Alien Species Information Network (EASIN), each Contracting Party will determine the list of IAS to be monitored in its national monitoring programme during the initial phase of the IMAP and start collecting data regarding these species. Guidance on developing IAS national lists and a regional and or sub regional reference list will be

developed by 2017.

Implementation measures (1)











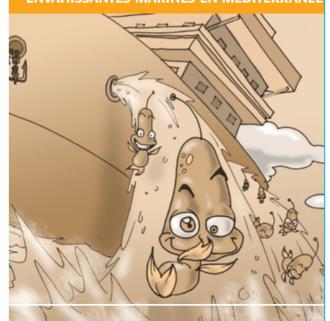






GUIDELINES FOR CONTROLLING
THE VECTORS OF INTRODUCTION INTO THE
MEDITERRANEAN OF NON-INDIGENOUS
SPECIES AND INVASIVE MARINE SPECIES

LIGNES DIRECTRICES POUR LE CONTRÔLE DES VECTEURS D'INTRODUCTION D'ESPÈCES NON-INDIGÈNES ET DES ESPÈCES ENVAHISSANTES MARINES EN MÉDITERRANÉE





GUIDE FOR RISK ANALYSIS ASSESSING THE IMPACTS OF THE INTRODUCTION OF NON-INDIGENOUS SPECIES

GUIDE POUR L'ANALYSE DES RISQUES ET L'EVALUATION DES IMPACTS DES INTRODUCTIONS D'ESPÈCES NON-INDIGÈNES







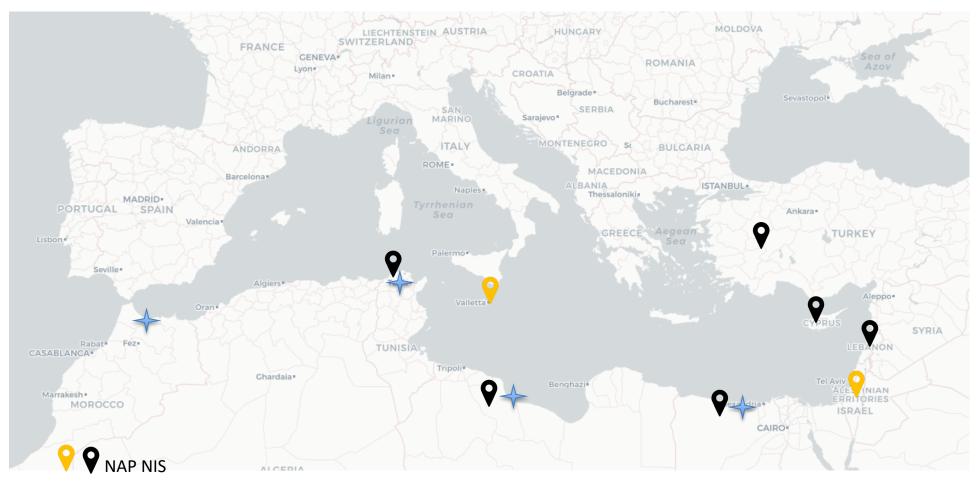


Implementation measures (2)









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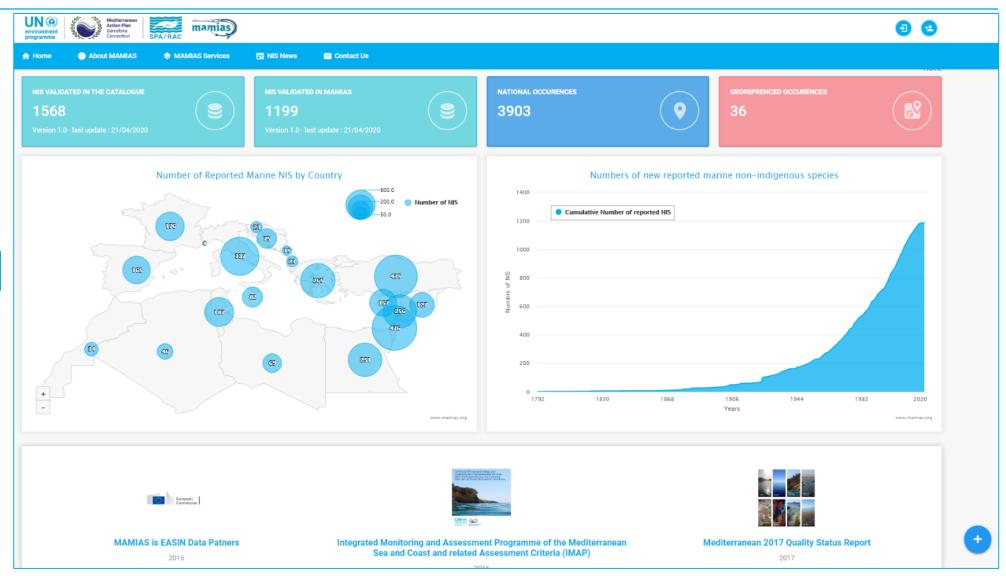
Monitoring Programme for biodiversity & NIS

Map Source: http://data.medchm.net









www.mamias.org









MAMIAS Catalogue

Protocol for the correction of spelling errors

Checking synonyms

Checking autonyms









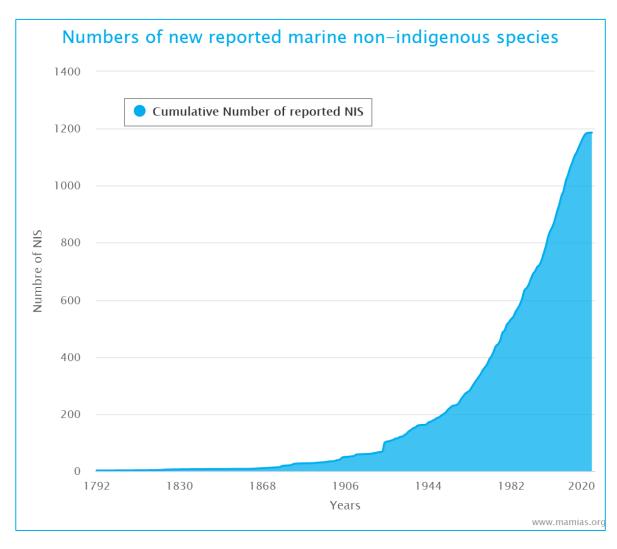


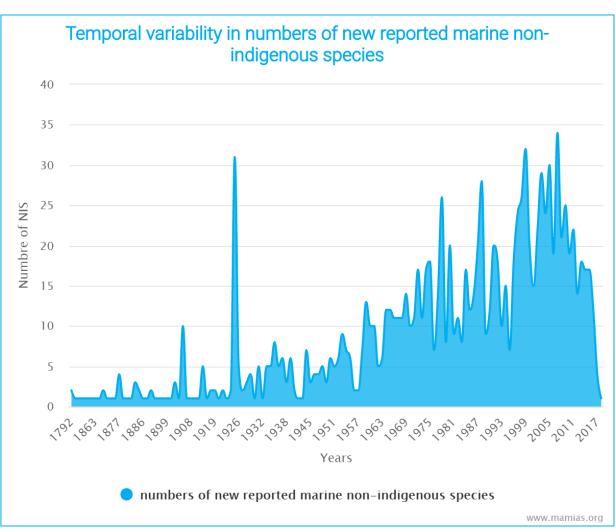
Global Biodiversity Information Facility







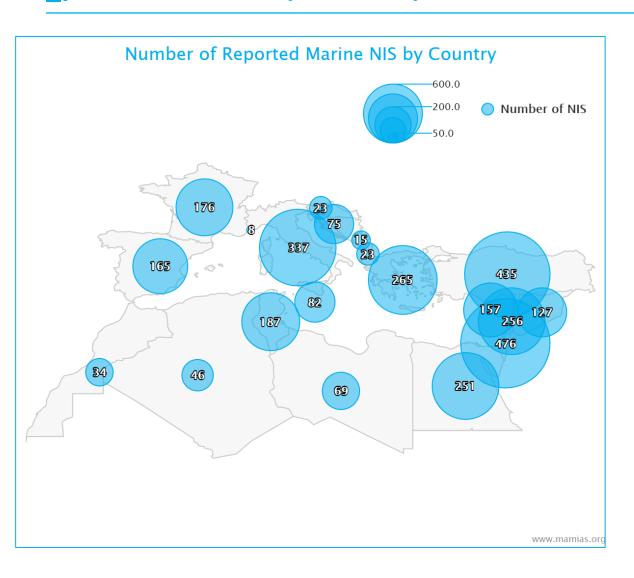


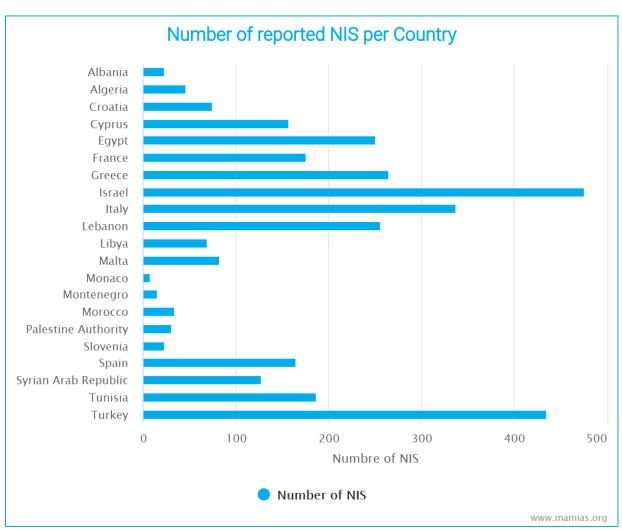








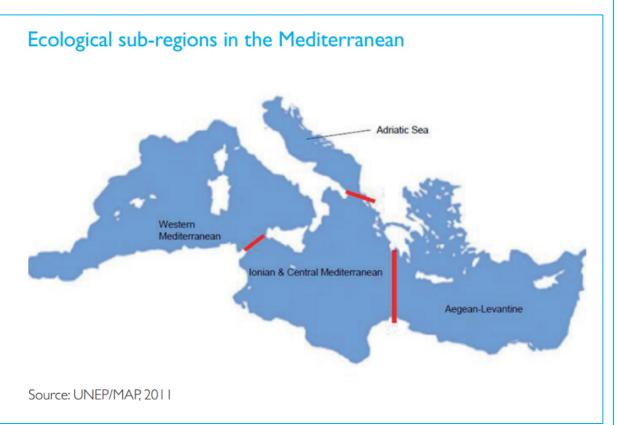


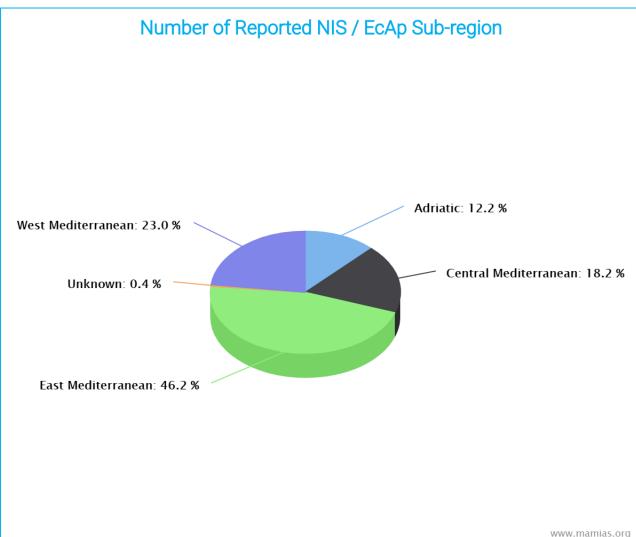








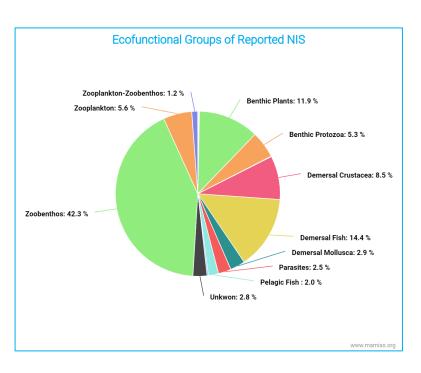


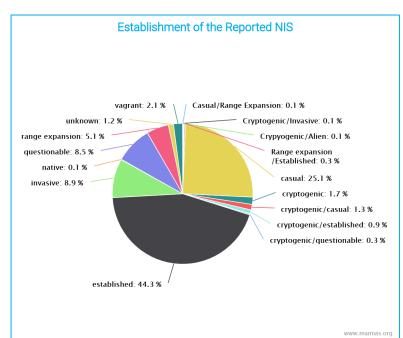


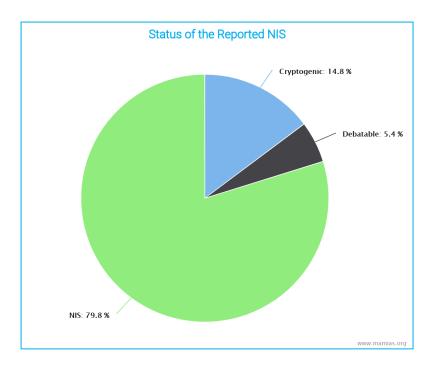








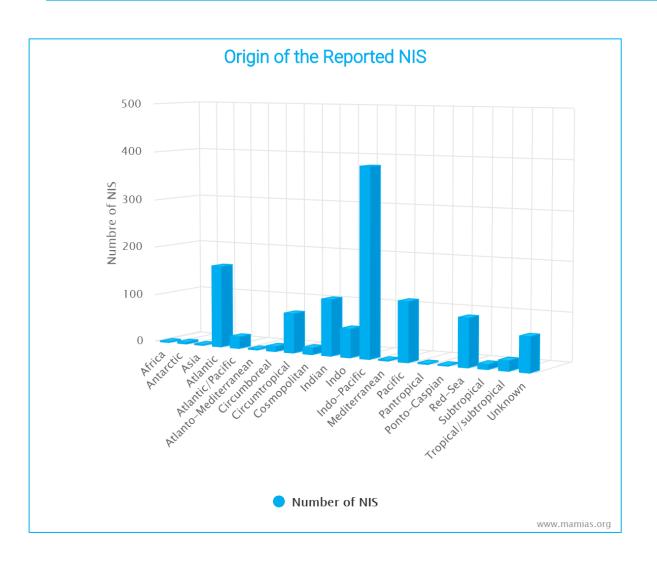


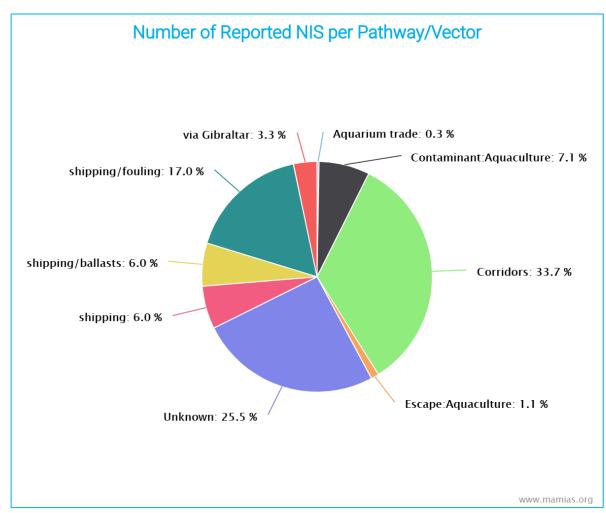












CBD categorization of pathways (CBD 2014)







the CBD categorization of pathways (CBD 2014) should be adopted







GENERAL

UNEP/CRD/SRSTTA/18/9/Add 1 26 June 2014***

ORIGINAL: ENGLISH

SUBSIDIARY BODY ON SCIENTIFIC

TECHNICAL AND TECHNOLOGICAL ADVICE Montreal, 23-28 June 2014 Item 5.2 of the provisional agenda*

PATHWAYS OF INTRODUCTION OF INVASIVE SPECIES, THEIR PRIORITIZATION AND MANAGEMENT

Note by the Executive Secretary

I. INTRODUCTION

- The Guiding Principles for the Prevention, Introduction and Mitigation of Impacts of Alien Species that threaten Ecosystems, Habitats and Species (the Guiding Principles) annexed to decision VI/23++ provide all Governments and organizations with guidance for developing effective strategies to minimize the spread and impact of invasive alien species. In particular, the Guiding Principles highlight the importance of identifying pathways of introduction of invasive species in order to minimize such introductions, and call to assess the risks associated with such pathways.
- The Conference of the Parties, in paragraph 14 of decision VI/23,** urged the Global Invasive Species Programme and other relevant organizations to evaluate known and potential pathways for the introduction of invasive alien species and identify opportunities to minimize incursions and manage risk. In paragraph 24 (c) of the same decision, the Conference of the Parties urged Parties, Governments and relevant organizations, at the appropriate level, with the support of relevant international organizations to promote and carry out, as appropriate, research and assessments on the importance of various pathways of introduction of invasive alien species
- Aichi Biodiversity Target 9 specifies: "By 2020, invasive alien species and pathways are identified and prioritized, priority species are controlled or eradicated, and measures are in place to manage pathways to prevent their introduction and establishment". Thus, with relation to pathways, the Target contains three elements: to identify pathways; to prioritize pathways; and to manage pathways.

rder to minimize the environmental impacts of the Secretariat's processes, and to contribute to the Secretary-General's initiative for cutral UN, this document is printed in limited numbers. Delegates are kindly requested to bring their copies to meetings and not to requ

Transport stowaway: moving of live organisms by maritime transport via various vectors: ballast water and sediments (T-S/ballast water), bio-fouling of ships, boats, offshore oil and gas platforms and other water vessels (T-S/hull fouling) and dredging, angling or fishing equipment (T-S/other).

Release in nature: intentional introduction of live alien organisms (e.g. for fishing or hunting in the wild).

Escape from confinement: movement of (potentially) invasive alien species from confinement (e.g. aquaculture).

Transport contaminant: unintentional movement of live organisms as (e.g. pests, through international trade).

Corridor: movement of alien organisms via transport infrastructure (e.g. canals).

^{*} UNEP/CBD/SBSTTA/18/1

^{**} One representative entered a formal objection during the process leading to the adoption of this decision and underlined that he did not believe that the Conference of the Parties could legitimately adopt a motion or a text with a formal objection in place tatives expressed reservations regarding the procedure leading to the adoption of this decision (see UNEP/CBD/COP/6/20, paras. 294-324).

^{***} Reposted on 26 June with technical changes to paragraph 23

Key messages(MedQSR 2017)







- Corridors are the most important pathways of new introductions in the Mediterranean, followed by shipping and aquaculture.
- A considerable increase is noticeable in the trends of new nonindigenous species introduced to the Mediterranean Sea.
- Progress has been made in creating national and regional inventories of non-indigenous species and assessing their pathways and impacts.
- Evidence for most of the reported impacts of alien species is weak, mostly based on expert judgement; a need for stronger inference is needed based on experiments or ecological modelling. The assessment of trends in abundance and spatial distribution is largely lacking. NIS identification is of crucial importance, and the lack of taxonomical expertise has already resulted in several NIS having been overlooked for certain time periods. The use of molecular approaches including bar-coding are often useful besides traditional species identification.
- Regular dedicated monitoring and long- time series will be needed so that estimation of such trends is possible in the future. There is a need for better coordination at national and sub-regional level on NIS monitoring.













Thank you!

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