

# **EMODNet Biology data grant: pilot project on collecting biological trait information - Integrating trait information for marine introduced and invasive species into WoRMS -Phase 2**

**Shyama Pagad**

University of Auckland/ IUCN SSC Invasive Species Specialist Group

February 2014



## Contents

List of Tables .....	<b>Error! Bookmark not defined.</b>
Context.....	4
Project Description .....	5
Summary of results .....	7
References.....	7
Documentation of information and issues .....	7
Acknowledgements.....	8
Annexure 1 .....	9
Text for introduced and invasive marine species portal .....	9
Introduction.....	9
Background of this database .....	9
Species .....	10
Biological Status.....	10
Distribution/Location information.....	11
Date of arrival or first record .....	12
Abundance and population trends .....	12
Management Information.....	12
Impact information.....	12
Pathways and vectors of introduction and spread of alien species .....	14
Information sources and Reference List .....	16
Key Online Databases .....	16
Key Journals .....	18
Feedback.....	19
Reference List.....	19

## List of Tables

Revised Look-up terms- (Blue cells- revised; New and equivalent terms in Red; Green cells terms have been replaced).....	6
Biome/System .....	11
Terms used to describe 'Occurrence' of species.....	12
Terms used to describe the 'Provenance' of species .....	13
Terms used to describe 'Invasiveness' of species .....	14
Impact types .....	14
Pathway/Vector terms .....	15

---

# Integrating trait information for marine introduced and invasive species into WoRMS

---

## Context

The IUCN Invasive Species Specialist Group –ISSG in 2008/2009 worked on a project, within the Oceanographic Biodiversity Information System- OBIS framework, that developed an annotated dataset of marine introduced and invasive species for the World Register of Marine Species (WoRMS) in order to flag species on the register as 'alien and invasive species'. Five major sources (DAISIE, 2009; Galil, 2009; Lasram & Mouillot 2009; Hayes, 2005 and Molnar *et al*/2008)<sup>1</sup> were used. These sources all together in effect provided global coverage. Annotations included higher taxonomy, origin of species, introduced location as well as where available, information on the date of first record/ introduction and pathway of introduction.

In early 2013, ISSG was supported with a small grant by the Flanders Marine Institute (VLIZ) to work on a data collection project within the framework of the European Marine Observation and Data Network (EMODNet) Biology Project to complete trait information related to 'invasiveness'. More traits/descriptors were included to update the 2009 database. The dataset submitted in 2009 was updated using additional data/information from published literature, including those newly published, that had been collated and stored in the ISSG archives.

Terminology and definitions to describe biological status, occurrence, provenance and invasiveness were revised and expanded. Additionally, any available information on abundance, pathways of introduction and spread, evidence of impacts on biodiversity and any management action planned or on-going -were documented.

On completion a brief report was submitted to VLIZ describing the dataset and information collated. Gaps both geographical and information gaps were highlighted with a recommendation for a 'Phase 2'.

---

<sup>1</sup> Delivering Alien Invasive Species Inventories for Europe (DAISIE) 2009

Galil, B.S. 2009. Taking stock: inventory of alien species in the Mediterranean sea. *Biological Invasions* 11(2), 359-372.

Hayes, K.R. 2005. Marine Species Introductions, Unpublished data from CSIRO

Lasram, F.B.R., Mouillot, D. 2009. Increasing southern invasion enhances congruence between endemic and exotic Mediterranean fish fauna. *Biological Invasions* 11,697- 711

Molnar, J.L., Gamboa, R.L., Revenga, C., Spalding, M.D. 2008. Assessing the global threat of invasive species to marine biodiversity- *Frontiers in Ecology and the Environment* 6 (9),485-492

In late 2013- early 2014, ISSG were further supported with a small grant to undertake this task and key areas were identified to work on:

- Additional literature will be scanned to complement the traits information recorded during the pilot project, not every trait was documented for all 1788 species. Several geographic gaps were identified during the first phase: the Asian region, some parts of the Pacific region and North American region. During this second phase relevant sources will be identified to fill these gaps, and the discovered information will be documented in the database. Journals and databases identified include: Mediterranean Marine Science Journal, New Mediterranean Biodiversity Records, Biological Invasions and the AquaNIS database.
- A thematic portal dedicated to introduced and invasive species is planned with WoRMS. This portal will be similar to already existing portals such as the World Amphipoda Database (<http://marinespecies.org/amphipoda/>), and the World Porifera Database (<http://marinespecies.org/porifera/>). The invasive species portal will contain background information on invasive species, and describe all sources (publications, databases, etc.) that were consulted to document the trait information related to invasiveness. All necessary texts to populate the invasive species portal will be provided, including some history and clear references (links) to the consulted online systems (e.g. DAISIE, EASIN, etc.).

## **Project Description**

The database developed during the pilot project was revised and updated with missing trait information including information components such as species authority, impact and pathway/vector information. Native and introduced country and sea area records were checked and names and codes corrected where they were incomplete and wrongly assigned. Several incorrect records were removed.

Some of the Look-up terms for Occurrence, Provenance and Invasiveness were revised based on the recommendation of experts. These have been outlined below in Table 1.

New terms were reassigned to the Pilot dataset and used during the development of the phase 2 dataset. Two additional more specific pathway/vector terms were added- 'Aquaculture- deliberate' and 'Aquaculture –accidental'

A literature review was undertaken to address the geographical and information gaps. Over 100 journal articles were consulted and relevant data and information extracted and entered into the dataset. Key journals included Mediterranean Marine Science Journal & New Mediterranean Biodiversity Records,

Biological Invasions and Pacific Science. Two additional key databases were data mined- they included National Exotic Marine and Estuarine Species Information System (NEMESIS) and AquaNIS.

**Table 1: Revised Look-up terms- (Blue cells- revised; New and equivalent terms in Red; Green cells terms have been replaced)**

Occurrence	Provenance	Invasiveness
Absent	Alien	Of Concern
Border Intercept	Bio-status uncertain (=Provenance uncertain)	Impact recorded
Detected in invasion pathway	Native	Invasive
Detected in the wild	Native - Endemic	Management recorded
Eradicated	Native - Non-endemic	Not invasive
Eradication unconfirmed	Not specified (=Provenance unknown)	Uncertain
Established		
Established and expanding	Cryptogenic (=Provenance unknown)	Concern about abundance (=Of concern)
Established and stable		Concern about spread (=Of concern)
Extinct (=Extirpated)		Concern recorded (=Of concern)
In captivity/cultivated		
Not specified		Not specified (=Uncertain)
Present/controlled		Prevention recorded (=Management recorded)
Recorded in error		Assessed as potentially invasive (=Of concern)
Sometimes present		
Uncertain		
Reported		
Naturalized (=Established)		

The pilot phase resulted in many of the key databases and journals being consulted while phase 2 focused on journals that had not been included in the first list as well as those whose main focus was not the marine environment but which contained relevant literature. The searches although comprehensive did not return as much relevant literature as those journals which were focused on marine bioinvasions. The focus was also those species that had not been recorded previously. Information sources both databases and journal articles that recorded species had already been documented through other database/ literature search were omitted due to constraints of time.

## **Summary of results**

### Pilot Phase (Phase 1)

The dataset developed during the pilot phase was revised and missing traits assigned where information was available easily. Species authority was assigned and all native country, native sea-areas, introduced country and sea-areas were assigned with associated codes. Revised look-up terms were substituted.

AquaNIS database was consulted; all listed species with species accounts were checked for information on pathways/vectors

Several errors in taxonomy and species names were corrected and incorrect records removed. The resultant database consists of 13129 records related to 1688 alien and invasive marine species and subspecies. Please see **EMODNet Phase 1**

### Phase 2

4098 records related to 296 alien and invasive marine species and subspecies have been created as a result of phase 2 and listed traits recorded. Please see **EMODNet Phase 2**.

EMODNet Phase 1 and 2 have resulted in a total of 17227 records being created related to 1808 alien and invasive marine species (and subspecies)

Over 400 information sources including global, regional, national and thematic databases and journal articles were consulted.

## **References**

Citations including links have been recorded for all references marked as source in the matrix. Data publishers have also been listed. Please see **References-in EMODNET Phase 2**

## **Documentation of information and issues**

Data sources to be used within the scope of the project were defined and most of the relevant information was 'data mined'. However, there were issues of incomplete records in terms of completing

all trait information listed. Some of these issues that had been enumerated in the pilot phase report were encountered during this phase too.

Information on native country/sea area was not easily available for all species listed. Additional research was done to fill in this information which remains incomplete.

## **Acknowledgements**

The author would like to thank the following persons for assistance in developing the datasets and for expert assistance: Sarah Hoffmann, Anne Tomlinson, James Brock (Research Assistant); Dr. Mark Costello (University of Auckland); Stefanie Dekeyzer, Simon Claus, Leen Vandepitte (VLIZ)



# Annexure 1

## Text for introduced and invasive marine species portal

### Introduction

The International Union for Conservation of Nature, (IUCN) describes invasive alien species as “animals, plants or other organisms introduced by man into places out of their natural range of distribution, where they become established and disperse, generating a negative impact on the local ecosystem and species.” These impacts may disrupt the ecosystem processes, introduce diseases, and reduce biodiversity. Invasive alien species are found across all taxa from micro-organisms to mammals and occur in all environments.

Invasive species pose a potentially major threat to the marine environment and its ecological integrity. Marine invasive species reduce marine diversity and species populations and disrupt ecosystems (for e.g. the impacts of the introduced comb jelly *Mnemiopsis ledyi*, a major carnivorous predator of edible zooplankton, pelagic fish eggs and larvae in the Black Sea). These species also have negative impacts on livelihood and food security (fisheries, aquaculture and mariculture), human health (for e.g. Paralytic Shellfish Poisoning (PSP)), as well as infrastructure (colonizing jetties, navigation buoys, petroleum platforms, wrecks and other artificial hard substrata, clogging industrial water pipes etc.).

Marine species are introduced outside their native range both intentionally and accidentally through a suite of vectors/pathways. Intentional introductions include species introduced through the pet/aquarium and live-food trade; for the purpose of fisheries, aquaculture and mariculture, for biological control: etc. Accidental introductions include species that are transported through ship’s ballast (both water and solid) and as hull-fouling organisms, as hitchhikers and stowaways on boats, scuba gear, sea chests and as even carried by other organisms.

### Background of this database

The IUCN Invasive Species Specialist Group –ISSG in 2008/2009 worked on a project, within the Oceanographic Biodiversity Information System- OBIS framework, that developed an annotated dataset of marine introduced and invasive species for the World Register of Marine Species (WoRMS) in order to flag species on the register as ‘alien and invasive species’. Five major sources (Delivering Alien Invasive Species Inventories for Europe- DAISIE, 2009; Galil, 2009; Lasram & Mouillot 2009; Hayes, 2005 and Molnar et al 2008)<sup>2</sup> were used. These sources all together in effect provided global coverage. Annotations

---

<sup>2</sup> Delivering Alien Invasive Species Inventories for Europe (DAISIE) 2009

Galil, B.S. 2009. Taking stock: inventory of alien species in the Mediterranean sea. *Biological Invasions* 11(2), 359-372.

Hayes, K.R. 2005. Marine Species Introductions, Unpublished data from CSIRO

included higher taxonomy, origin of species, introduced location as well as where available, information on the date of first record/ introduction and pathway of introduction.

Now in 2013-2014, ISSG is working with the Flanders Marine Institute (VLIZ) on a data collection project developed within the framework of the European Marine Observation and Data Network (EMODNet) Biology Project to complete trait information related to 'invasiveness'.

The dataset submitted in 2009 was updated using additional data/information from published literature, including those recently published.

The terminology and definitions to describe biological status, occurrence, provenance and invasiveness have been revised and expanded. Additionally, any available information on abundance, pathways of introduction and spread, evidence of impacts on biodiversity are being documented.

The geographic coverage of this dataset is global. Focus was placed on documenting authoritative information on marine species introductions in the recognized marine bio-invasion hotspots<sup>3</sup>.

A set of 'Look-up terms' for organism type, environment/system, occurrence, provenance, invasiveness, abundance, population trend, pathways/vectors (adapted Hayes 2005) and impacts (also adapted from Hayes 2005) was created to maintain consistency in the trait descriptors (see Tables 1 to 8 below)

## **Species**

Species name is the main identifier in this database. Species name is listed with species authority including listing of synonyms where information was available as part of the information source consulted. A mix of commonly used as well as scientific terms has been used to describe organism types. Alpha ID of the species will be listed from WoRMS.

The system/systems in which species occur were recorded; the following systems were listed *Aerial, Brackish, Freshwater, Host, Marine, and Terrestrial* (see Table 1)

## **Biological Status**

Biological status of the species is recorded using three descriptive terms: Occurrence, Provenance and Invasiveness. These terms were recorded as described in the source information with minimum

---

Lasram, F.B.R., Mouillot, D. 2009. Increasing southern invasion enhances congruence between endemic and exotic Mediterranean fish fauna. *Biological Invasions* 11,697- 711

Molnar, J.L., Gamboa, R.L., Revenga,C., Spalding,M.D. 2008. Assessing the global threat of invasive species to marine biodiversity- *Frontiers in Ecology and the Environment* 6 (9),485-492

<sup>3</sup> Seebens et al 2013 <Seebens H., Gastner M. T., and Blasius B., 2013. The risk of marine bioinvasion caused by global shipping. *Ecology Letters* (2013) 16: 782–790>

interpretation. Table 2, 3 and 4 lists the terms used to describe biological status of the listed species with brief descriptions

### **Distribution/Location information**

Three location types have been recorded to describe the native range and known introduced range of the species:

1. Native range- country and/ or native sea area: Country or sea area which is the native range of the species
2. Source country and/ or sea area: Country or sea area which is the known source area of the introduced species/or population. The source area could be the native range of the species or a known introduced range
3. Introduced country and or sea area: Country or sea area that is recorded as the known introduced range of the species

*Note: Information on native range has been listed for a majority of the species recorded*

**Table 2: Biome/System**

<b>Biome/System</b>
Aerial
Brackish
Host
Marine
Brackish/Freshwater
Brackish/Host
Brackish/Marine
Freshwater/Brackish/Marine
Freshwater/Brackish/Host
Freshwater/Marine
Marine/Host

### **Date of arrival or first record**

The date of arrival or the date of first record has been recorded where this information was available.

### **Abundance and population trends**

Abundance and population trends of species populations are recorded in some cases- where information was available. Nine terms have been used to describe Abundance-

*Rare, Common, Locally common, Dominant, Monoculture, Rare to common, Common to dominant, Rare to dominant and Fluctuating*

Population trends have been recorded using three descriptors- *Increasing, Decreasing and Stable*

### **Management Information**

Information on any management action implemented to prevent the introduction of a species and its spread or impacts has been recorded. This information is recorded as a 'yes' or 'no' for management action.

### **Impact information**

Information on the impact of introduced and invasive marine species has been recorded. These include impacts on native species, their habitats and ecosystems, human health and activity, transmission of diseases etc. Descriptive terms of impacts were standardized and listed in a look-up table to use. Please see Table 5 for a list of impact terms used. These terms have been adapted from Hayes (2005)

**Table 3: Terms used to describe 'Occurrence' of species**

<b>Occurrence</b>	<b>Description</b>
Absent	Species that were reported at some time to be present but were not recorded subsequently are reported to be 'Absent'
Border Intercept	Species that have been intercepted at borders as a result of detection procedures
Detected in invasion pathway	Species detected in invasion pathways for example in ballast water, or as a hull-fouling organism
Detected in the wild	Species that have been recorded as present in the wild with no further information
Eradicated	Species that have been subject to an eradication event and have been confirmed as eradicated
Eradication unconfirmed	Species that have been subject to an eradication event but have not been confirmed as eradicated
Established	Species that have become established in their introduced range
Established and expanding	Species that have become established in their introduced range and are known to be increasing in abundance and expanding their range

Established and stable	Species that have become established in their introduced range but are not known to be spreading aggressively
Extirpated	Species that were present but have been declared extinct
In captivity/cultivated	Species that have been introduced and maintained in captivity or cultivated for example those species that are farmed in aquaculture or mariculture facilities
Not specified	Species which may be listed as alien or introduced but whose occurrence has not been specified
Present/controlled	Species that are known to be present in their introduced range and are subject to some control option
Recorded in error	Species that have reported or recorded in error
Reported	Species that are 'reported' to be present but with no further information
Sometimes present	Species that are reported as present but only 'sometimes'
Uncertain	Species whose presence is uncertain, maybe reported as present anecdotally but not confirmed

**Table 4: Terms used to describe the 'Provenance' of species**

<b>Provenance</b>	<b>Description</b>
Alien	Species introduced by man into places out of their natural range of distribution
Native	Species that is native to the country or sea area
Native - Endemic	Species that is native and endemic to a country or sea area i.e. a species that is unique to a location or habitat
Native - Non-endemic	Species that is native to an area but is not endemic to it i.e a species that has a wide native range
Provenance uncertain	Species whose biological status is uncertain i.e. it is uncertain if the species is native or alien to the location
Provenance unknown	Species whose origins cannot be verified OR a species whose provenance has not been specified in the source information or a

**Table 5: Terms used to describe 'Invasiveness' of species**

Invasiveness	Description
Invasive	Species that are known to be invasive- those species in whose cases evidence of impact has been recorded or which is spreading aggressively
Management recorded	Species for which some management action including prevention has been recorded in its introduced range
Not invasive	Species that has not demonstrated any invasive traits in its introduced range
Not specified	A species whose 'invasiveness' has not been specified in its introduced range. The species is known to be present and has been reported but there is no comment on its invasiveness
Of concern	Species that are demonstrating aggressive spread and there is concern about its spread OR species where some concern has been recorded- this may be due to known records of its invasiveness and impacts in other areas of their known introduced range
Uncertain	Species whose invasiveness is uncertain

### **Pathways and vectors of introduction and spread of alien species**

One of the most important types of information in the practical approach to prevention and management of biological invasions is the identity of the pathways of introduction and details of vectors. These are necessary for the prevention of introduction of potentially invasive species and also for the containment of further spread of established invasions.

Information on pathways and vectors of introduction of alien species has been recorded for the listed species where information was available. Descriptive terms describing pathways and vectors (adapted from Hayes (2005)) were standardized and listed as a look-up table. Please see Table 6 for the list of descriptive pathway/vector terms.

**Table 6: Impact types**

<b>Impacts (adapted from Hayes 2005)</b>
Adverse habitat modification
Alters bio-geochemical/hydrologic cycles
Alters bio-geochemical/hydrologic cycles
Aquatic transport
Consumes native species (predator or herbivore)

Damage to marine structures or archaeology
Genetic impacts: hybridisation and introgression
Human health
Induces novel behavioural or eco-physiological responses
Loss of aquaculture/commercial/recreational harvest or gain
Loss of public/tourist amenity
Other impact - undefined or uncertain
Outcompetes native species for resources and/or space
Pathogen/parasite or carrier of a pathogen/parasite
Water abstraction or nuisance fouling

**Table 7: Pathway/Vector terms**

<b>Pathways/ Vectors (adapted Hayes 2005)</b>
Aquaculture: accidental
Aquaculture: deliberate
Bio-control: accidental translocation with deliberate bio-control release
Bio-control: deliberate translocation as a bio-control agent
Canals: natural range expansion through man-made canals
Debris: transport of species on human generated debris
Fisheries: accidental as bait
Fisheries: accidental with deliberate translocations of fish or shellfish
Fisheries: accidental with fishery products, packing or substrate
Fisheries: deliberate translocations of fish or shellfish to establish or support fishery
Individual release: accidental release by individuals (e.g. aquarium discards)
Individual release: deliberate release by individuals
Natural dispersal

Plant introductions: accidental with deliberate plant translocations
Plant introductions: deliberate translocation of plant species (e.g. for erosion control)
Recreational equipment: accidental with recreational equipment
Scientific research: accidental release with research activities
Scientific research: deliberate release with research activities
Seaplanes: accidental as attached or free-living fouling organisms
Ships: accidental as attached or free-living fouling organisms
Ships: accidental associated with cargo
Ships: accidental with ballast water, sea water systems, live wells or other deck basins
Ships: accidental with solid ballast (e.g. rocks, sand, etc.)
Unknown

## Information sources and Reference List

Key databases and over 400 journal articles have been consulted to develop this dataset. A complete list has been included below.

### Key Online Databases

1. Molnar *et al* (2008) was the first global assessment of marine invasive species, including their impacts and routes of introduction. Over 350 databases and other sources were consulted and information on 329 marine invasive species, including their distribution, impacts on biodiversity, and introduction pathways were synthesized. Analyses indicated that International shipping, followed by aquaculture, represented the major means of introduction.  
<<http://www.esajournals.org.ezproxy.auckland.ac.nz/doi/abs/10.1890/070064>>

Supplemental information published by the authors has been attached to this report as Appendix 1. The annotated inventory was provided by the authors

2. Hayes et al 2005 undertook a two year study designed to identify and rank introduced marine species found within Australian waters and those that are not found within Australian waters. The invasion database collated for this project recorded 1582 marine and estuarine species that have been transported by human-mediated activities or have human-mediated invasion histories around the world. <<http://www.environment.gov.au/system/files/resources/02d33408-ad61-4d11-b5a4-6bf1aa333776/files/priority2.pdf>>



The invasion database developed for this study was shared by the author < Hayes, K.R. 2005. Marine Species Introductions, Unpublished data from CSIRO> The list of descriptors of impact types and vectors/pathways has been adapted from this dataset.

3. Delivering Alien Invasive Species Inventories for Europe (DAISIE)- The DAISIE project was funded by the sixth framework programme of the European Commission (Contract Number: SSPI-CT-2003-511202). The goal was to provide a 'one-stop-shop' for information on biological invasions in Europe, delivered via an international team of leading experts in the field of biological invasions, latest technological developments in database design and display, and an extensive network of European collaborators and stakeholders. Data has been collated for vertebrates, invertebrates, marine and inland aquatic organisms as well as plants from up to 98 countries/regions (including islands) in the wider Europe. Over 248 datasets were assembled and verified by experts, representing the largest database on invasive species in the world. Marine species records were extracted from this database. <<http://www.europe-alien.org/aboutDAISIE.do>>
4. IUCN SSC Invasive Species Specialist Group- Archives and Global Invasive Species Database (GISD)- The ISSG of the Species Survival Commission (SSC) of the International Union for Conservation of Nature (IUCN) is a global network of scientific and policy experts on invasive species. The ISSG promotes and facilitates the exchange of invasive species information and knowledge across the globe and ensures the linkage between knowledge, practice and policy so that decision making is informed. The ISSG developed the first global database on invasive alien species -GISD and since over a decade have maintained archived information on invasive alien species in species and thematic folders. The ISSG archives and the GISD were consulted for data and information on marine alien and invasive species <<http://www.issg.org/index.html>> <<http://www.issg.org/database/welcome/>>
5. The European Alien Species Information Network (EASIN) is an initiative of the Joint Research Centre of the European Commission, and aims to enable easy access to data and information on Alien Species (AS) in Europe from existing on-line databases to assist policy makers and scientists in their efforts to tackle AS invasions. Global, European, Regional, National and Sub-National databases have been consulted to create the EASIN Catalog of species. The list can be viewed at the following link <<http://easin.jrc.ec.europa.eu/About/Online-resources>>. The dataset of alien species in the marine environment were shared by EASIN
6. FishBase -FishBase was developed at the World Fish Center in collaboration with the Food and Agriculture Organization of the United Nations (FAO) and many other partners, and with support

from the European Commission (EC). It is a global information system with extensive and detailed information about fishes including introduced and native range. FishBase was used as a source of native range information for fish species <<http://www.fishbase.org/search.php>>

7. SealifeBase- is a FishBase-like information system for all aquatic living organisms (marine and freshwater), it aims to provide biological information necessary to conduct biodiversity and ecosystem studies, taking advantage of lists of species already available on paper and electronically, and using the scientific names as 'hook' to organize biodiversity information. <http://www.sealifebase.org/>
8. AquaNIS- is an online information system that contains data on Non-Indigenous Species introduced to marine, brackish and coastal freshwater of Europe and neighboring region. It features information on introduction histories, recipient regions, taxonomy, biological traits, impacts, and other relevant documented data. Annotation on pathway/vector types and species records were extracted from this database <http://www.corpi.ku.it/databases/index.php/aquanis>
9. National Exotic Marine and Estuarine Species Information System (NEMESIS) - The Smithsonian Environmental Research Center (SERC) has developed and maintains a national database of marine and estuarine invasions of the continental U.S. and Alaska. This relational database compiles detailed information on approximately 500 different non-native species of plants, fish, invertebrates, protists and algae that have invaded the coastal waters of continental US and Alaska. The database identifies which species have been reported, their current population status (i.e., whether established or not), as well as when, where, and how they invaded; it also summarizes key information on the biology, ecology, and known impacts of each invader. <http://invasions.si.edu/nemesis/>

## **Key Journals**

1. Aquatic Invasions- an open access, peer-reviewed international journal focusing on biological invasions in inland and coastal water ecosystems from around the world. <http://www.aquaticinvasions.net/about.html>
2. BioInvasions Records is an open access, rapid peer-reviewed international journal of field research on biological invasions in aquatic and terrestrial ecosystems from around the world. BioInvasions Records is devoted primarily to publication of research and data papers on records of non-native species. The journal provides the opportunity of timely publication of first records

of aquatic and terrestrial invaders and other relevant information needed for online databases, decision support and early warning systems <http://www.reabic.net/journals/bir/>

3. Marine Biodiversity records -facilitates documentation of marine organisms in locations where they have not formerly been recorded, as well as of species loss from habitats. Marine Biodiversity Records therefore welcomes original research articles which document and review changes in geographical ranges of marine species, including the effects of the introduction of novel or alien species to marine ecosystems, and of taxonomic studies relevant to these changes. <http://journals.cambridge.org/action/displayJournal?jid=MBD>
4. Mediterranean Marine Science Journal & New Mediterranean Biodiversity Records- are published semi-annually by the Hellenic Centre for Marine Research (HCMR). The journal includes thematic sections in all fields of Oceanography, Marine Biology, Marine Conservation, Fisheries and Aquaculture in the Mediterranean area and the adjacent regions. <http://www.medit-mar-sc.net/index.php/marine>
5. Biological Invasions- publishes research and synthesis papers on patterns and processes of biological invasions in terrestrial, freshwater, and marine (including brackish) ecosystems. <http://link.springer.com/journal/10530>

Please note that the literature search was not confined to only the listed databases and journals

## Feedback

The authors welcome input from users of this website who detect errors or omissions: we strive to maintain the website as both a comprehensive and an up-to-date resource. We aim to update the database regularly and frequently.

## Reference List

Aaron Ramsay, Jeffrey Davidson, Daniel Bourque and Henrik Stryhn (2009) Recruitment patterns and population development of the invasive ascidian *Ciona intestinalis* in Prince Edward Island, Canada. Aquatic Invasions (2009) Volume 4, Issue 1: 169-176

Abraham bij de Vaate (2010) Some evidence for ballast water transport being the vector of the quagga mussel (*Dreissena rostriformis bugensis* Andrusov, 1897) introduction into Western Europe and subsequent upstream dispersal in the River Rhine. Aquatic Invasions (2010) Volume 5, Issue 2: 207-209

Adam Czugala and Adam Woźniczka (2010) The River Odra estuary – another Baltic Sea area colonized by the round goby *Neogobius melanostomus* Pallas, 1811 (pp S61-S65) Aquatic Invasions 5(Suppl. 1): S61-S65.

Adam Woźniczka, Sławomira Gromisz and Norbert Wolnomiejski (2011) *Hypania invalida* (Grube, 1960), a polychaete species new for the southern Baltic estuarine area: the Szczecin Lagoon and the River Odra mouth. *Aquatic Invasions* (2011) Volume 6, Issue 1: 39–46

Adriaan Gittenberger and Jean Jacques Simeon Moons (2011) Settlement and possible competition for space between the invasive violet tunicate *Botrylloides violaceus* and the native star tunicate *Botryllus schlosseri* in The Netherlands. *Aquatic Invasions* (2011) Volume 6, Issue 4: 435–440

Akhilesh, K. V., C. P. R. Shanis, et al. (2012). Report of razor fish, *Iniistius twistii* (Labridae: Perciformes) from the south-west coast of India. *Marine Biodiversity Records* (e91).

Aki Kato, Naohiro Morita, Tomoko Hiratsuka and Shoichiro Suda (2009) Recent introduction of a freshwater red alga *Chantransia macrospora* (Batrachospermales, Rhodophyta) to Okinawa, Japan. *Aquatic Invasions* (2009) Volume 4, Issue 4: 567-574

Alan Deidun, Patrick Vella, Arnold Sciberras and Rio Sammut (2010) New records of *Lobotes surinamensis* (Bloch, 1790) in Maltese coastal waters (pp S113-S116)." *Aquatic Invasions* 5(Suppl. 1): S113-S116.

Alan Deidun, Shaun Arrigo and Stefano Piraino (2011) The westernmost record of *Rhopilema nomadica* (Galil, 1990) in the Mediterranean – off the Maltese Islands (pp S99-S103) Volume 6, Supplement 1

Alberto Ocaña-Luna, Marina Sánchez-Ramírez<sup>1</sup> and Ricardo Aguilar-Durán (2010) First record of *Phyllorhiza punctata* von Lendenfeld, 1884 (Cnidaria: Scyphozoa, Mastigiidae) in Mexico (pp S79-S84) *Aquatic Invasions* 5(Suppl. 1)

Albins M.A., (2013) Effects of invasive Pacific red lionfish *Pterois volitans* versus a native predator on Bahamian coral-reef fish communities, *Biological Invasions*, 15(1), 2013, pp. 29-43.

Alexandra Temnykh and Shuhei Nishida (2012) New record of the planktonic copepod *Oithona davisae* Ferrari and Orsi in the Black Sea with notes on the identity of "*Oithona brevicornis*". *Aquatic Invasions* (2012) Volume 7, Issue 3: 425–431

Alfonso Aguilar-Perera and Armin Tuz-Sulub (2010) Non-native, invasive red lionfish [*Pterois volitans* (Linnaeus, 1758): Scorpaenidae], is first recorded in the southern Gulf of Mexico, off the northern Yucatan Peninsula, Mexico (pp S9-S12) *Aquatic Invasions* 5(Suppl. 1): S9-S12.

Aliya El Nagar, Rony Huys and John D. D. Bishop (2010) Widespread occurrence of the Southern Hemisphere ascidian *Corella eumyota* Traustedt, 1882 on the Atlantic coast of Iberia. *Aquatic Invasions* (2010) Volume 5, Issue 2: 169-173

Almogi-Labin, A., Hyams-Kaphzan, O., (2012) *Epistomaroides punctatus* (Said, 1949) - a new alien foraminifera found at Akhziv - Rosh HaNikra, northern Israel, eastern Mediterranean Sea. *Mediterranean Marine Science*, North America, 13, nov. 2012.

Alpa P. Wintzer, Mariah H. Meek and Peter B. Moyle (2013) Abundance, size, and diel feeding ecology of *Blackfordia virginica* (Mayer, 1910), a non-native hydrozoan in the lower Napa and Petaluma Rivers, California (USA) (in press). *Aquatic Invasions* (2013) Volume 8 in press

Álvaro Altuna (2009) *Eucheilota menoni* Kramp 1959 (Cnidaria: Hydrozoa: Lovenellidae), an Indo-Pacific species new to the Atlantic fauna from the Bay of Biscay (north of Spain). *Aquatic Invasions* (2009) Volume 4, Issue 2: 353-356

Amanda G. Silva, Régis P. Lima, Adriana N. Gomes, Beatriz G. Fleury and Joel C. Creed (2011) Expansion of the invasive corals *Tubastraea coccinea* and *Tubastraea tagusensis* into the Tamoios Ecological Station Marine Protected Area, Brazil (pp S105-S110) Volume 6, Supplement 1

Amanda M. Savoie and Gary W. Saunders, (2013) First record of the invasive red alga *Heterosiphonia japonica* (Ceramiales, Rhodophyta) in Canada. *BioInvasions Records* (2013) Volume 2, Issue 1: 27–32

Amy E. Fowler, Tiia Forsström, Mikael von Numers and Outi Vesakoski (2013) The North American mud crab *Rhithropanopeus harrisi* (Gould, 1841) in newly colonized Northern Baltic Sea: distribution and ecology. *Aquatic Invasions* (2013) Volume 8, Issue 1: 89–96

Anatoly Aklehnovich and Vladimir Razlutskiy, (2013) Distribution and spread of spiny-cheek crayfish *Orconectes limosus* (Rafinesque, 1817) in Belarus. *BioInvasions Records* (2013) Volume 2 in press

Andrés Izquierdo-Muñoz, Marta Díaz-Valdés and Alfonso A. Ramos-Esplá (2009) Recent non-indigenous ascidians in the Mediterranean Sea. *Aquatic Invasions* (2009) Volume 4, Issue 1: 59-64

Andrew D. Nunn and Ian G. Cowx (2012) Diel and seasonal variations in the population dynamics of *Hemimysis anomala*, a non-indigenous mysid: implications for surveillance and management. *Aquatic Invasions* (2012) Volume 7, Issue 3: 357–365

Anna Packalén, Samuli Korpinen and Kari K. Lehtonen (2008) The invasive amphipod species *Gammarus tigrinus* (Sexton 1939) can rapidly change littoral communities in the Gulf of Finland (Baltic Sea). *Aquatic Invasions* (2008) Volume 3, Issue 4: 405-412

Anne Schrimpf, Christoph Chucholl, Thomas Schmidt and Ralf Schulz (2013) Crayfish plague agent detected in populations of the invasive North American crayfish *Orconectes immunis* (Hagen, 1870) in the Rhine River, Germany (pp 103-109) Volume 8, Issue 1

Anne Schrimpf, Lucian Pârvulescu, Denis Copilaș-Ciocianu, Adam Petrussek and Ralf Schulz (2013) Crayfish plague pathogen detected in the Danube Delta – a potential threat to freshwater biodiversity in southeastern Europe. *Aquatic Invasions* (2012) Volume 7, Issue 4: 503–510

Antit, M., Gofas, S., Azzouna, A., (2010) A Gastropod From The Tropical Atlantic Becomes An Established Alien In The Mediterranean. *Biological Invasions*, 2010, 12(5), Pp. 991-994

Antit, M., Gofas, S., Salas, C., Azzouna, A., (2011) One hundred years after Pinctada: an update on alien Mollusca in Tunisia. *Mediterranean Marine Science*, North America, 12, apr. 2011.

Antoinette Kelso and Patrick N. Wyse Jackson, (2012) Invasive bryozoans in Ireland: first record of *Watersipora subtorquata* (d'Orbigny, 1852) and an extension of the range of *Tricellaria inopinata* d'Hondt and Occhipinti Ambrogi, 1985. *BioInvasions Records* (2012) Volume 1, Issue 3: 209–214

AquaNIS. Editorial Board, (2013) Information system on Aquatic Non-Indigenous and Cryptogenic Species. World Wide Web electronic publication

- Argyro Zenetos, Panayotis Ovalis and Evi Vardala-Theodorou (2009) The American piddock *Petricola pholadiformis* Lamarck, 1818 spreading in the Mediterranean Sea. *Aquatic Invasions* (2009) Volume 4, Issue 2: 385-387
- Arias, A., Giangrande, A., Gambi, M., Anadon, N., (2013) Biology and new records of the invasive species *Branchiommma bairdi* (Annelida: Sabellidae) in the Mediterranean Sea. *Mediterranean Marine Science, North America*, 14, mar. 2013.
- Armando T. Wakida-Kusunoki, Luis Enrique Amador-del Angel, Patricia Carrillo Alejandro and Cecilia Quiroga Brahm (2011) Presence of Pacific white shrimp *Litopenaeus vannamei* (Boone, 1931) in the Southern Gulf of Mexico (pp S139-S142) Volume 6, Supplement 1
- Åsa M. Kestrup and Anthony Ricciardi (2008) Occurrence of the Ponto-Caspian mysid shrimp *Hemimysis anomala* (Crustacea, Mysida) in the St. Lawrence River. *Aquatic Invasions* (2008) Volume 3, Issue 4: 461-464
- Ashley G. Callahan, Don Deibel, Cynthia H. McKenzie, Jennifer R. Hall and Matthew L. Rise (2010) Survey of harbours in Newfoundland for indigenous and non-indigenous ascidians and an analysis of their cytochrome c oxidase I gene sequences. *Aquatic Invasions* (2010) Volume 5, Issue 1: 31-39
- Ayako Yashiki Yamakawa and Hideyuki Imai (2012) Hybridization between *Meretrix lusoria* and the alien congeneric species *M. petechialis* in Japan as demonstrated using DNA markers. *Aquatic Invasions* (2012) Volume 7, Issue 3: 327–336
- Bamber, R. N. (2012). Anthropogenic spread of the immigrant sea-spider *Ammothea hilgendorffii* (Arthropoda: Pycnogonida: Ammotheidae) in UK waters. *Marine Biodiversity Records*(e78).
- Barbara Lage Ignacio, María Soledad López and Julieta Salles Vianna da Silva (2013) Colonization plasticity of the boring bivalve *Lithophaga aristata* (Dillwyn, 1817) on the Southeastern Brazilian coast: considerations on its invasiveness potential. *Aquatic Invasions* (2012) Volume 7, Issue 4: 475–482
- Bariche, M. and P. Heemstra (2012). First record of the blacktip grouper *Epinephelus fasciatus* (Teleostei: Serranidae) in the Mediterranean Sea. *Marine Biodiversity Records*(e1).
- Bariche, M., Torres, M., Azzurro, E., (2013) The Presence of the invasive Lionfish *Pterois miles* in the Mediterranean Sea. *Mediterranean Marine Science, North America*, 14, jun. 2013.
- Bastian Huwer, Marie Storr-Paulsen, Hans Ulrik Riisgård and Holger Haslob (2008) Abundance, horizontal and vertical distribution of the invasive ctenophore *Mnemiopsis leidyi* in the central Baltic Sea, November 2007. *Aquatic Invasions* (2008) Volume 3, Issue 2: 113-124
- Bat-Sheva S. Rothman, Menachem Goren and Bella S. Galil, (2013) *Cheilodipterus novemstriatus* (Rüppell, 1838) along the Levantine coast of the Mediterranean Sea: a forthcoming invasion? *BioInvasions Records* (2013) Volume 2, Issue 1: 85–88
- Bayram Öztürk, Vesselina Mihneva and Tamara Shiganova (2011) First records of *Bolinopsis vitrea* (L. Agassiz, 1860) (Ctenophora: Lobata) in the Black Sea. *Aquatic Invasions* (2011) Volume 6, Issue 3: 355–360

Bazairi, H., Sghaier, Y., Benamer, I., Langer, H., Pergent, G., Bouras, E., Verlaque, M., Soussi, J., Zenetos, A., (2013) Alien Marine Species of Libya: First Inventory and New Records in El-Kouf National Park (Cyrenaica) and the Neighbouring Areas. *Mediterranean Marine Science*, North America, 14, oct. 2013.

Bella S. Galil (2008) *Sphaeroma walkeri* Stebbing, 1905 (Crustacea: Isopoda: Sphaeromatidae) established on the Mediterranean coast of Israel. *Aquatic Invasions* (2008) Volume 3, Issue 4: 443-444

Bella S. Galil and Moti Mendelson, (2013) A record of the moon crab *Matuta victor* (Fabricius, 1781) (Crustacea; Decapoda; Matutidae) from the Mediterranean coast of Israel. *BioInvasions Records* (2013) Volume 2, Issue 1: 69–71

Bella S. Galil, Limor Shoval and Menachem Goren (2009) *Phyllorhiza punctata* von Lendenfeld, 1884 (Scyphozoa: Rhizostomeae: Mastigiidae) reappeared off the Mediterranean coast of Israel. *Aquatic Invasions* (2009) Volume 4, Issue 3: 481-483

Bella S. Galil, Lisa-Ann Gershwin, Jacob Douek and Baruch Rinkevich (2010) *Marivagia stellata* gen. et sp. nov. (Scyphozoa: Rhizostomeae: Cepheidae), another alien jellyfish from the Mediterranean coast of Israel. *Aquatic Invasions* (2010) Volume 5, Issue 4: 331–340

Bella S. Galil, Mehmet Baki Yokes, Menachem Goren and Ariel Diamant (2009) First record of the Indo-West Pacific mantis shrimp, *Clorida albolitura* Ah Yong & Naiyanetr, 2000 (Stomatopoda, Squillidae) in Turkey. *Aquatic Invasions* (2009) Volume 4, Issue 4: 701-702

Bella S. Galil, Nurit Kress and Tamara A. Shiganova (2009) First record of *Mnemiopsis leidyi* A. Agassiz, 1865 (Ctenophora; Lobata; Mnemiidae) off the Mediterranean coast of Israel. *Aquatic Invasions* (2009) Volume 4, Issue 2: 357-360

Bella S. Galil, Roy Gevili and Tamara Shiganova (2011) Not far behind: First record of *Beroe ovata* Mayer, 1912 (Ctenophora: Beroida: Beroidae) off the Mediterranean coast of Israel (pp S89-S90) Volume 6, Supplement 1

Ben Hadj Hamida-Ben Abdallah, O., Ben Hadj Hamida, N., Jarboui, O., Froggia, C., (2010) First Occurrence Of The Yellow Roughneck Shrimp, *Rimapenaeus similis* (Smith, 1885) (Crustacea: Decapoda: Penaeidae) In The Mediterranean Sea (Tunisian Waters). *Biological Invasions*, 2010, 12(5) Pp. 999-1001.

Benabdellah Bachir Bouiadjra, Mohammed Zoheir Taleb, Abderrezak Marouf, Mokhtar Youcef Benkada and Hassane Riadi (2010) First record of the invasive alga *Caulerpa racemosa* (Caulerpaceae, Chlorophyta) in the Gulf of Arzew (western Algeria) (pp S97-S101) *Aquatic Invasions*, 5(1): 97-101.

Bilecenoglu, M., Alfaya, J., Azzurro, E., Baldacconi, R., Boyaci, Y., Circosta, V., Compagno, L., Coppola, F., Deidun, A., Durgham, H., Durucan, F., Ergüden, D., Fernández-Álvarez, F., Gianguzza, P., Giglio, G., Gökoğlu, M., Gürlek, M., Ikhtiyar, S., Kabasakal, H., Karachle, P., Katsanevakis, S., Koutsogiannopoulos, D., Lanfranco, E., Micarelli, P., Özvarol, Y., Pena-Rivas, L., Poursanidis, D., Saliba, J., Sperone, E., Tibullo, D., Tiralongo, F., Tripepi, S., Turan, C., Vella, P., Yokes, M., Zava, B., (2013) New Mediterranean Marine Biodiversity Records (December, 2013). *Mediterranean Marine Science*, North America, 14, Oct. 2013.

- Bilecenoglu, M., Kaya, M., Eryigit, A., (2010) New Data On The Occurrence Of Two Alien Fishes, *Pisodonophis semicinctus* And *Pomadasys stridens*, From The Eastern Mediterranean Sea. *Mediterranean Marine Science*, North America, 10, Dec. 2010.
- Bishop, J.D.D., Roby, C., Yunnice, A.L.E., Wood, C.A., Lévêque, L., Turon, X., Viard, F., (2013) The Southern Hemisphere Ascidian *Asterocarpa humilis* Is Unrecognised But Widely Established In N W France And Great Britain. *Biological Invasions*, 2013, 15(2), Pp. 253-260.
- Bjorklund M., Almqvist G., (2010) Rapid Spatial Genetic Differentiation In An Invasive Species, The Round Goby *Neogobius melanostomus* In The Baltic Sea. *Biological Invasions*, 2010, 12(8) Pp. 2609-2618.
- Bonnici, L., Evans, J., Borg, J., Schembri, P., (2012) Biological Aspects And Ecological Effects Of A Bed Of The Invasive Non-Indigenous Mussel *Brachidontes pharaonis* (Fischer P., 1870) In Malta. *Mediterranean Marine Science*, North America, 13, Jun. 2012.
- Borg, J., Evans, J., Schembri, P., (2009) Occurrence Of The Alien Nudibranch *Melibe viridis* (Kelaart, 1858) (Opisthobranchia, Tethydidae), In The Maltese Islands. *Mediterranean Marine Science*, North America, 10, Jun. 2009.
- Brahim Sabour, Abdeltif Reani, Hachem E. L Magouri and Ricardo Haroun (2013) *Sargassum muticum* (Yendo) Fensholt (Fucales, Phaeophyta) in Morocco, an invasive marine species new to the Atlantic coast of Africa. *Aquatic Invasions* (2013) Volume 8, Issue 1: 97–102
- Bruno Eleres Soares, Roberta Danyele Oliveira Raiol and Luciano Fogaça de Assis Montag (2011) Occurrence of the non-native blenny *Omobranchus punctatus* (Valenciennes, 1836) (Perciformes: Blenniidae) in the Amazon coastal zone, Brazil (pp S39-S43) Volume 6, Supplement 1
- Bruno Eleres Soares, Tiago Octavio Begot Ruffeil and Luciano Fogaça de Assis Montag, 2012. Occurrence of the non-native sleeper *Butis koilomatodon* (Bleeker, 1849) (Perciformes: Eleotridae) in the Amazon coastal zone, Brazil. *BioInvasions Records* (2012) Volume 1, Issue 2: 95–99
- Bruno Sampaio Sant'Anna, Timóteo Tadashi Watanabe, Alexander Turra and Fernando José Zara (2012) Relative abundance and population biology of the non-indigenous crab *Charybdis hellerii* (Crustacea: Brachyura: Portunidae) in a southwestern Atlantic estuary-bay complex. *Aquatic Invasions* (2012) Volume 7, Issue 3: 347–356
- Bruno Sampaio Sant'Anna, Timóteo Tadashi Watanabe, Alexander Turra and Fernando José Zara, (2012) First record of the non-indigenous portunid crab *Charybdis variegata* from the western Atlantic coast (pp 11-16) *BioInvasions Records* (2012) Volume 1, Issue 1: 11–16
- Caffrey, J.M., Millane, M., Evers, S., Moran, H., & Butler, M. (2010). A novel approach to aquatic weed control and habitat restoration using biodegradable jute matting. *Aquatic Invasions*, 5(2): 123-129.
- Canella Radea, Ioanna Louvrou and Athena Economou-Amilli (2008) First record of the New Zealand mud snail *Potamopyrgus antipodarum* J.E. Gray 1843 (Mollusca: Hydrobiidae) in Greece – Notes on its population structure and the associated microalgae. *Aquatic Invasions* (2008) Volume 3, Issue 3: 341-344
- Carlos M. L. Afonso (2011) Non-indigenous Japanese oyster drill *Pteropurpura (Ocinebrellus) inornata* (Récluz, 1851) (Gastropoda: Muricidae) on the South-west coast of Portugal (pp S85-S88) Volume 6, Supplement 1



- Castro, J. J. (2012). A new record of the West African fiddler crab, *Uca tangeri*, from Gran Canaria (Canary Islands). *Marine Biodiversity Records*(e19).
- Cem Cevik, Osman Baris Derici, Fatma Cevik and Levent Cavas (2011) First record of *Phyllorhiza punctata* von Lendenfeld, 1884 (Scyphozoa: Rhizostomeae: Mastigiidae) from Turkey (pp S27-S28) Volume 6, Supplement 1
- César Peteiro (2008) A new record of the introduced seaweed *Undaria pinnatifida* (Laminariales, Phaeophyceae) from the Cantabrian Sea (northern Spain) with comments on its establishment. *Aquatic Invasions* (2008) Volume 3, Issue 4: 413-415
- Cesare Bogi and Bella S. Galil, (2012) First record of *Pseudorhaphitoma cf. iodolabiata* (Hornung & Mermod, 1928) (Mollusca; Gastropoda; Mangeliidae) off the Mediterranean coast of Israel. *BioInvasions Records* (2012) Volume 1, Issue 1: 33–35
- Cesare Bogi and Bella S. Galil, (2013) *Finella pupoides* Adams A., 1860 (Gastropoda, Scaliolidae) – a population explosion underway, Mediterranean Sea. *BioInvasions Records* (2013) Volume 2, Issue 1: 43–45
- Chela J. Zabin, Gail V. Ashton, Christopher W. Brown and Gregory M. Ruiz (2009) Northern range expansion of the Asian kelp *Undaria pinnatifida* (Harvey) Suringar (Laminariales, Phaeophyceae) in western North America. *Aquatic Invasions* (2009) Volume 4, Issue 3: 429-434
- Chelsea A. Harms and Ralph G. Turingan (2012) Dietary flexibility despite behavioral stereotypy contributes to successful invasion of the pike killifish, *Belonesox belizanus*, in Florida, USA. *Aquatic Invasions* (2012) Volume 7, Issue 4: 547–553
- Chiba T., Sato S., (2013) Invasion Of *Laguncula pulchella* (Gastropoda: Naticidae) And Predator-Prey Interactions With Bivalves On The Tona Coast, Miyagi Prefecture, Northern Japan. *Biological Invasions*, 2013, 15(3), Pp. 587-598
- Christoph Chucholl and Michael Pfeiffer (2010) First evidence for an established Marmorkrebs (Decapoda, Astacida, Cambaridae) population in Southwestern Germany, in syntopic occurrence with *Orconectes limosus* (Rafinesque, 1817). *Aquatic Invasions* (2010) Volume 5, Issue 4: 405–412
- Christophe Piscart, Chafik Maazouzi and Pierre Marmonier (2008) Range expansion of the North American alien amphipod *Gammarus tigrinus* Sexton, 1939 (Crustacea: Gammaridae) in Brittany, France. *Aquatic Invasions* (2008) Volume 3, Issue 4: 449-453
- Christopher R. Biggs and Julian D. Olden (2011) Multi-scale habitat occupancy of invasive lionfish (*Pterois volitans*) in coral reef environments of Roatan, Honduras. *Aquatic Invasions* (2011) Volume 6, Issue 3: 347–353
- Chryssanthi Antoniadou and Dimitris Vafidis (2009) Updated distribution of the holothuroid *Synaptula reciprocans* (Forsk., 1775) in the Mediterranean: does it follow shallow-water circulation patterns? *Aquatic Invasions* (2009) Volume 4, Issue 2: 361-363
- Cilia, D. P. and A. Deidun (2012). Branching out: mapping the spatial expansion of the lessepsian invader mytilid *Brachidontes pharaonis* around the Maltese Islands (vol 5, pg 1, 2012). *Marine Biodiversity Records*(e81).

- Cinar, M., Bilecenoglu, M., Ozturk, B., Katagan, T., Aysel, V., (2005) Alien Species On The Coasts Of Turkey. *Mediterranean Marine Science*, North America, 6, Dec. 2005.
- Cinar, M., Bilecenoglu, M., Ozturk, B., Katagan, T., Yokes, M., Aysel, V., Dagli, E., Acik, S., Ozcan, T., Erdogan, H., (2011) An Updated Review Of Alien Species On The Coasts Of Turkey. *Mediterranean Marine Science*, North America, 12, May. 2011.
- Claudius Pirkenseer, (2012) Records of four non-indigenous marine species, south of Koroni (Messiniakos Gulf, Peloponnese, Greece). *BioInvasions Records* (2012) Volume 1, Issue 2: 87–93
- Coles, S. L., Kandel, F.L.M, Reath, P.A., Longenecker, K., Eldredge, L.G., (2006) Rapid Assessment Of Nonindigenous Marine Species On Coral Reefs In The Main Hawaiian Islands, *Pacific Science*, 2006, 60(4):483-507
- Collin H. Johnson, Judith E. Winston and Robert M. Woollacott (2012) Western Atlantic introduction and persistence of the marine bryozoan *Tricellaria inopinata*. *Aquatic Invasions* (2012) Volume 7, Issue 3: 295–303
- Concha Durán Lalaguna and Antonia Anadón Marco (2008) The zebra mussel invasion in Spain and navigation rules. *Aquatic Invasions* (2008) Volume 3, Issue 3: 315-324
- Concha Durán, Munia Lanao, Antonia Anadón and Vincent Touyá (2010) Management strategies for the zebra mussel invasion in the Ebro basin. *Aquatic Invasions* (2010) Volume 5, Issue 3: 309-316
- Conde, A., J. M. Novais, et al. (2012). The presence of *Mya arenaria* in the Ria de Aveiro is the third confirmed record of this invasive clam on the Portuguese coast. *Marine Biodiversity Records*(e88).
- Corsini-Foka, M., Kalogirou, S., (2008) On The Finding Of The Indo-Pacific Fish *Scomberomorus commerson* In Rhodes (Greece). *Mediterranean Marine Science*, North America, 9, May. 2008.
- Corsini-Foka, M., Kondylatos, G., Pancucci-Papadopoulou, M., (2013) A New Alien Crab For The Mediterranean Sea: *Xanthias lamarckii* (H. Milne Edwards, 1834) (Crustacea: Decapoda: Brachyura: Xanthidae). *Mediterranean Marine Science*, North America, 14, Jun. 2013.
- Corsini-Foka, M., Pancucci-Papadopoulou, M., Kondilatos, G., Kalogirou, S., (2010) *Gonioinfradens paucidentatus* (A. Milne Edwards, 1861) (Crustacea, Decapoda, Portunidae): A New Alien Crab In The Mediterranean Sea. *Mediterranean Marine Science*, North America, 11, Nov. 2010.
- Cristina Cappelletti, Simone Cianfanelli, Maria Elena Beltrami and Francesca Ciutti (2009) *Sinanodonta woodiana* (Lea, 1834) (Bivalvia: Unionidae): a new non-indigenous species in Lake Garda (Italy). *Aquatic Invasions* (2009) Volume 4, Issue 4: 685-688
- D. Menno Soes, Peter Glöer and Anton J. de Winter (2009) *Viviparus acerosus* (Bourguignat, 1862) (Gastropoda: Viviparidae), a new exotic snail species for the Dutch fauna. *Aquatic Invasions* (2009) Volume 4, Issue 2: 373-375
- Dan Minchin, Elizabeth J. Cook and Paul F. Clark (2013) Alien species in British brackish and marine waters. *Aquatic Invasions* (2013) Volume 8, Issue 1: 3–19

Daneliya, M. E. and H. Laakkonen (2012). The Japanese skeleton shrimp *Caprella mutica* (Amphipoda: Caprellidae) in Sweden (Eastern Skagerrak)." Marine Biodiversity Records (e36).

Daniel Golani, Oren Sonin and Dor Edelist (2011) Second records of the Lessepsian fish migrants *Priacanthus sagittarius* and *Platax teira* and distribution extension of *Tylerius spinosissimus* in the Mediterranean (pp S7-S11) Volume 6, Supplement 1

Daniel Golani, Pierre Salameh and Oren Sonin (2010) First record of the Emperor angelfish, *Pomacanthus imperator* (Teleostei: Pomacanthidae) and the second record of the spotbase burrfish *Cyclichthys spilostylus* (Teleostei: Diodontidae) in the Mediterranean (pp S41-S43) Aquatic Invasions 5(Suppl. 1)

Daniel Golani, Ronald Fricke and Brenda Appelbaum-Golani (2011) First record of the Indo-Pacific slender ponyfish *Equulites elongatus* (Günther, 1874) (Perciformes: Leiognathidae) in the Mediterranean (pp S75-S77) Volume 6, Supplement 1

Davide Tagliapietra, Erica Keppel, Marco Sigovini and Gretchen Lambert, (2012) First record of the colonial ascidian *Didemnum vexillum* Kott, 2002 in the Mediterranean: Lagoon of Venice (Italy). BioInvasions Records (2012) Volume 1, Issue 4: 247–254

Declan T.G. Quigley, Douglas Herdson and Kevin Flannery, (2013) Occurrence of the kuruma prawn *Marsupenaeus japonicus* (Spence Bate, 1888) in the Celtic Sea, English Channel, and North-West France. BioInvasions Records (2013) Volume 2, Issue 1: 51–55

Delivering Alien Invasive Species Inventories for Europe (DAISIE) (2013)

Diego Castejón and Guillermo Guerao, (2013) A new record of the American blue crab, *Callinectes sapidus* Rathbun, 1896 (Decapoda: Brachyura: Portunidae), from the Mediterranean coast of the Iberian Peninsula. BioInvasions Records (2013) Volume 2, Issue 2: 141–143

Dmitry P. Filippenko and Mikhail O. Son (2008) The New Zealand mud snail *Potamopyrgus antipodarum* (Gray, 1843) is colonising the artificial lakes of Kaliningrad City, Russia (Baltic Sea Coast). Aquatic Invasions (2008) Volume 3, Issue 3: 345-347

Doneddu, M. and P. G. Albano (2012). First record of *Eastonia rugosa* in the Gulf of Olbia, north-eastern Sardinia, Italy. Marine Biodiversity Records(e89).

Dragoş Micu and Victor Niţă (2009) First record of the Asian prawn *Palaemon macrodactylus* Rathbun, 1902 (Caridea: Palaemonoidea: Palaemonidae) from the Black Sea. Aquatic Invasions (2009) Volume 4, Issue 4: 597-604

Dragoş Micu, Victor Niţă and Valentina Todorova (2010) First record of the Japanese shore crab *Hemigrapsus sanguineus* (de Haan, 1835) (Brachyura: Grapsoidea: Varunidae) from the Black Sea (pp S1-S4) Aquatic Invasions 5(Suppl. 1): S1-S4.

Dupont, L., Viard, F., Davis, M. H., Nishikawa, T., Bishop, J. D. D., (2010) Pathways Of Spread Of The Introduced Ascidian *Styela clava* (Tunicata) In Northern Europe, As Revealed By Microsatellite Markers. Biological Invasions, 2010, 12(8), Pp. 2707-2721.

Edwin Zammit and Patrick J. Schembri (2011) An overlooked and unexpected introduction? Occurrence of the spotted scat *Scatophagus argus* (Linnaeus, 1766) (Osteichthyes: Scatophagidae) in the Maltese Islands (pp S79-S83) Volume 6, Supplement 1

Elena Tricarico, Giuseppe Mazza, Gabriele Orioli, Claudia Rossano, Felicita Scapini and Francesca Gherardi (2010) The killer shrimp, *Dikerogammarus villosus* (Sowinsky, 1894), is spreading in Italy. Aquatic Invasions (2010) Volume 5, Issue 2: 211-214

Elías D. Dana, Javier López-Santiago, Juan García-de-Lomas, David M. García-Ocaña, Vanesa Gámez and Fernando Ortega (2010) Long-term management of the invasive *Pacifastacus leniusculus* (Dana, 1852) in a small mountain stream. Aquatic Invasions (2010) Volume 5, Issue 3: 317-322

Elif Özgür and Bayram Öztürk (2008) A population of the alien jellyfish, *Cassiopea andromeda* (Forsskål, 1775) [Cnidaria: Scyphozoa: Rhizostomea] in the Ölüdeniz Lagoon, Turkey. Aquatic Invasions (2008) Volume 3, Issue 4: 423-428

Enric Aparicio, Gerard Carmona-Catot, Maurice Kottelat, Silvia Perea and Ignacio Doadrio, (2013) Identification of Gobio populations in the northeastern Iberian Peninsula: first record of the non-native Languedoc gudgeon *Gobio occitaniae* (Teleostei, Cyprinidae). BioInvasions Records (2013) Volume 2, Issue 2: 163–166

Erhan Akamca, Sinan Mavruk, Caner Enver Ozyurt and Volkan Baris Kiyaga (2011) First record of the Indo-Pacific burrowing goby *Trypauchen vagina* (Bloch and Schneider, 1801) in the North-Eastern Mediterranean Sea (pp S19-S21) Volume 6, Supplement 1

Ernesto Azzurro, Marco Milazzo and Francesc Maynou, (2012) First confirmed record of the Lessepsian migrant *Pteragogus pelycus* Randall, 1981 (Teleostei: Labridae) for the North African coasts. BioInvasions Records (2012) Volume 1, Issue 1: 45–48

Ernesto Azzurro, Marco Milazzo, Francesc Maynou, Pere Abelló and Tarek Temraz (2010) First record of *Percnon gibbesi* (H. Milne Edwards, 1853) (Crustacea: Decapoda: Percnidae) from Egyptian waters (pp S123-S125) Aquatic Invasions, 5(1): 123 - 125.

Eugenia López-López, J. Elías Sedeño-Díaz, Perla Tapia Vega and Eloiza Oliveros (2009) Invasive mollusks *Tarebia granifera* Lamarck, 1822 and *Corbicula fluminea* Müller, 1774 in the Tuxpam and Tecolutla rivers, Mexico: spatial and seasonal distribution patterns. Aquatic Invasions (2009) Volume 4, Issue 3: 435-450

European Alien Species Information Network (EASIN) (2013)

Evita Strode, Nadezhda A. Berezina, Martins Kalnins and Maija Balode, (2013) New records of the amphipods *Gammarus tigrinus* Sexton, 1939 and *Pontogammarus robustoides* G.O. Sars, 1894 in Latvian waters of the Baltic Sea. BioInvasions Records (2013) Volume 2, Issue 1: 63–68

Ferdinando Boero, Marco Putti, Egidio Trainito, Emanuele Prontera, Stefano Piraino and Tamara A. Shiganova (2009) First records of *Mnemiopsis leidyi* (Ctenophora) from the Ligurian, Thyrrenian and Ionian Seas (Western Mediterranean) and first record of *Phyllorhiza punctata* (Cnidaria) from the Western Mediterranean. Aquatic Invasions (2009) Volume 4, Issue 4: 675-680

Fernandez D.A., Ciancio J., Ceballos S.G., Riva-Rossi C., Pascual M.A., (2010) Chinook Salmon (*Oncorhynchus tshawytscha*, Walbaum 1792) In The Beagle Channel, Tierra Del Fuego: The Onset Of An Invasion, *Biological Invasions*, 2010, 12(9), Pp. 2991-2997.

Ferrero-Vicente, L., Loya-Fernandez, A., Marco-Mendez, C., Martinez-Garcia, E., Saiz-Salinas, J., Sanchez-Lizaso, J., (2012) First Record Of The Sipunculan Worm *Phascolion (Phascolion) caupo* Hendrix, 1975 In The Mediterranean Sea. *Mediterranean Marine Science*, North America, 13, Apr. 2012.

Fofonoff P. W, Ruiz G. M, Steves B, & Carlton J. T. (2014) National Exotic Marine and Estuarine Species Information System.

Fourqurean, J.W., Smith, T.J., Iii, Possley, J., Collins, T.M., Lee, D., Namoff, S., (2011) Are Mangroves In The Tropical Atlantic Ripe For Invasion? Exotic Mangrove Trees In The Forests Of South Florida. *Biological Invasions*, 2011, 12(8), Pp. 2509-2522.

Frances E. Lucy, Alexander Y. Karatayev and Lyubov E. Burlakova (2013) Predictions for the spread, population density, and impacts of *Corbicula fluminea* in Ireland. *Aquatic Invasions* (2012) Volume 7, Issue 4: 465–474

Francesco Nonnis Marzano, Massimiliano Scalici, Stefania Chiesa, Francesca Gherardi, Armando Piccinini and Giancarlo Gibertini (2009) The first record of the marbled crayfish adds further threats to fresh waters in Italy. *Aquatic Invasions* (2009) Volume 4, Issue 2: 401-404

François Lefebvre, Sébastien Wielgoss, Kazuya Nagasawa and František Moravec (2013) On the origin of *Anguillicoloides crassus*, the invasive nematode of anguillid eels. *Aquatic Invasions* (2012) Volume 7, Issue 4: 443–453

Frogliia, C. (2012). First record of *Charybdis japonica* (Crustacea: Decapoda: Portunidae) in the Mediterranean Sea. *Marine Biodiversity Records*(e33).

Frogliia, C., Deval, M., (2013) First Record Of An Exotic Hippolytid Shrimp In The Eastern Mediterranean Sea. *Mediterranean Marine Science*, North America, 15, Dec. 2013.

Frogliia, C., R. Silvestri, et al. (2012). First record of *Panulirus regius* (Decapoda: Palinuridae) in the Italian seas, with remarks on the earlier Mediterranean records. *Marine Biodiversity Records*(e31).

Fulvio Garibaldi and Lidia Orsi Relini (2008) Record of the blues potted cornetfish *Fistularia commersonii* Rüppell, 1838 in the Ligurian Sea (NW Mediterranean). *Aquatic Invasions* (2008) Volume 3, Issue 4: 471-474

Galia Pasternak and Bella S. Galil (2010) Occurrence of the alien sea hare *Aplysia dactylomela* Rang, 1828 (Opisthobranchia, Aplysiidae) in Israel. *Aquatic Invasions* (2010) Volume 5, Issue 4: 437–440

Galia Pasternak and Bella S. Galil, (2012) An established population of the alien sea slug *Elysia grandifolia* Kelaart, 1858 (Mollusca, Opisthobranchia, Elysiidae) off the Mediterranean coast of Israel. *BioInvasions Records* (2012) Volume 1, Issue 3: 221–223

Galia Pasternak, Roni Ziv, Gal Eyal, Sigal Shefer, Henk K. Mienis, Oz Rittner and Bella S. Galil (2011) On the population of *Chromodoris annulata* Eliot, 1904 (Mollusca: Opisthobranchia: Chromodorididae) off the Mediterranean coast of Israel (pp S91-S93) Volume 6, Supplement 1

Galil, B.S. (2009) Taking stock: inventory of alien species in the Mediterranean sea. *Biological Invasions* 11(2), 359-372.

Gappa, J.L., Carranza, A., Gianuca, N.M., Scarabino, F., (2010) *Membraniporopsis tubigera*, An Invasive Bryozoan In Sandy Beaches Of Southern Brazil And Uruguay. *Biological Invasions*, 2010, 12(5), Pp. 987-982

Garcia Raso, J., Salmeron, F., Baro, J., Marina, P., Abello, P., (2013) The Tropical African Hermit Crab *Pagurus mbizi* (Crustacea, Decapoda, Paguridae) In The Western Mediterranean Sea: A New Alien Species Or Filling Gaps In The Knowledge Of The Distribution?. *Mediterranean Marine Science*, North America, 15, Dec. 2013.

Garth Arsenault, Jeff Davidson and Aaron Ramsay (2009) Temporal and spatial development of an infestation of *Styela clava* on mussel farms in Malpeque Bay, Prince Edward Island, Canada. *Aquatic Invasions* (2009) Volume 4, Issue 1: 189-194

Gary W. Saunders, Nick Hawkins and Sarah Wilkin, (2013) A survey of Sam Orr's Pond (New Brunswick, Canada) uncovers the invasive green alga *Codium fragile* (Chlorophyta) and the orange-striped green anemone *Diadumene lineata* (Cnidaria), first records for the Bay of Fundy and Canada, respectively. *BioInvasions Records* (2013) Volume 2 in press

Gavin McNeill, Julia Nunn and Dan Minchin (2010) The slipper limpet *Crepidula fornicata* Linnaeus, 1758 becomes established in Ireland (pp S21-S25) *Aquatic Invasions* 5(Suppl. 1)

Geoffrey B. Read, Graeme Inglis, Peter Stratford and Shane T. Ahyong (2011) Arrival of the alien fanworm *Sabella spallanzanii* (Gmelin, 1791) (Polychaeta: Sabellidae) in two New Zealand harbours. *Aquatic Invasions* (2011) Volume 6, Issue 3: 273-279

Gerasimos Kondilatos, Maria Corsini-Foka and Maria-Antonietta Pancucci-Papadopoulou (2010) Occurrence of the first non-indigenous ascidian *Phallusia nigra* Savigny, 1816 (Tunicata: Ascidiacea) in Greek waters. *Aquatic Invasions* (2010) Volume 5, Issue 2: 181-184

Giangrande, A., Cosentino, A., Lo Presti, C., Licciano, M., (2012) Sabellidae (Annelida) From The Faro Coastal Lake (Messina, Ionian Sea), With The First Record Of The Invasive Species *Branchiomma bairdi* Along The Italian Coast. *Mediterranean Marine Science*, North America, 13, Oct. 2012.

Gladilina, E. V., O. A. Kovtun, et al. (2013). Grey seal *Halichoerus grypus* in the Black Sea: the first case of long-term survival of an exotic pinniped. *Marine Biodiversity Records*(e33).

Glaúcia C. Silva-Oliveira, Jonathan Stuart Ready, Gabriel Iketani, Sandra Bastos, Grazielle Gomes, Iracilda Sampaio and Cristiana Maciel (2011) The invasive status of *Macrobrachium rosenbergii* (De Man, 1879) in Northern Brazil, with an estimation of areas at risk globally. *Aquatic Invasions* (2011) Volume 6, Issue 3: 319-328

Göktuğ Dalgiç, Yusuf Ceylan and Cemalettin Şahin (2009) The Atlantic starfish, *Asterias rubens* Linnaeus, 1758 (Echinodermata: Asteroidea: Asteroiidae) spreads in the Black Sea. *Aquatic Invasions* (2009) Volume 4, Issue 3: 485-486

González-Duarte, M., Megina, C., Bethencourt, M., (2013) *Sertularia marginata* (Cnidaria: Hydrozoa) In The Mediterranean: An Alien Species In Expansion?. Mediterranean Marine Science, North America, 14, Jun. 2013.

Gonzalez-Wangueemert, M. and G. Borrero-Perez (2012). A new record of *Holothuria arguinensis* colonizing the Mediterranean Sea. Marine Biodiversity Records(e105).

Gordon H. Copp, A. Serhan Tarkan, Michael J. Godard, Nathan Edmonds and Keith J. Wesley (2010) Preliminary assessment of feral goldfish impacts on ponds, with particular reference to native crucian carp. Aquatic Invasions (2010) Volume 5, Issue 4: 413–422

Grantly R. Galland and Sara L. Pennebaker, (2012) A benthic diatom bloom in the Gulf of California, Mexico. BioInvasions Records (2012) Volume 1, Issue 1: 65–69

Gregory Snovsky and Bella S. Galil (2011) The Australian redclaw crayfish *Cherax quadricarinatus* (von Martens, 1868) (Crustacea: Decapoda: Parastactidae) in the Sea of Galilee, Israel (pp S29-S31) Volume 6, Supplement 1

Gretchen Lambert (2009) Adventures of a sea squirt sleuth: unraveling the identity of *Didemnum vexillum*, a global ascidian invader. Aquatic Invasions (2009) Volume 4, Issue 1: 5-28

Gretchen Lambert, Noa Shenkar and Billie J. Swalla (2010) First Pacific record of the north Atlantic ascidian *Molgula citrina* – bioinvasion or circumpolar distribution? Aquatic Invasions (2010) Volume 5, Issue 4: 369–378

Gubanova, A., 2000. Occurrence Of *Acartia tonsa* Dana In The Black Sea. Was It Introduced From The Mediterranean?. Mediterranean Marine Science, North America, 1, Jun. 2000.

Guerra, A., S. Pascual, et al. (2013). The black-pygmy mussel *Limnoperna securis* in Galician Rias (north-eastern Atlantic): new records and first evidence of larval stages predation by copepods. Marine Biodiversity Records(e15).

Halim, Y., Rizkalla, S., 2011. Aliens In Egyptian Mediterranean Waters. A Check-List Of Erythrean Fish With New Records. Mediterranean Marine Science, North America, 12, Nov. 2011.

Hans Bernd Stich, Andreas Hoppe and Gerhard Maier (2009) Zooplankton composition in a gravel pit lake invaded by the Ponto-Caspian mysid *Hemimysis anomala* G.O. Sars 1907. Aquatic Invasions (2009) Volume 4, Issue 4: 697-700

Hans Ulrik Riisgård, Coralie Barth-Jensen and Caroline V. Madsen (2010) High abundance of the jellyfish *Aurelia aurita* excludes the invasive ctenophore *Mnemiopsis leidyi* to establish in a shallow cove (Kertinge Nor, Denmark). Aquatic Invasions (2010) Volume 5, Issue 4: 347–356

Hayes, K., C. Sliwa, S. Migus, F. McEnulty, and P. Dunstan (2005) National priority pests, Part two ranking of Australian marine pests, , Australian Government Department of the Environment and Heritage, Parks

Hayes,K.R. (2005) Marine Species Introductions, Unpublished data from CSIRO

Hellenic Centre for Marine research (HCMR), H., (2011). Errata To The Review Article (Medit. Mar. Sci. 11/2, 2010, 381-493): Alien Species In The Mediterranean Sea By 2010. A Contribution To The Application Of European Union's Marine Strategy Framework Directive (Msfd). Part I. Spatial Distribution. Mediterranean Marine Science, North America, 12, Dec. 2011.

Henry H. C. Choong and Dale R. Calder, (2013) *Sertularella mutsuensis* Stechow, 1931 (Cnidaria: Hydrozoa: Sertulariidae) from Japanese tsunami debris: systematics and evidence for transoceanic dispersal. BioInvasions Records (2013) Volume 2, Issue 1: 33–38

Hermann Neumann, Siegfried Ehrich and Ingrid Kröncke (2010) Establishment of the angular crab *Goneplax rhomboides* (Linnaeus, 1758) (Crustacea, Decapoda, Brachyura) in the southern North Sea (pp S27-S30) Aquatic Invasions 5(Suppl. 1)

Hosie, A. M. (2012). First records of *Podophthalmus nacreus* (Brachyura: Portunidae) from Western Australia. Marine Biodiversity Records (e21).

Hossain, M. B. and R. N. Bamber (2013). New record of a wood-boring isopod, *Sphaeroma terebrans* (Crustacea: Sphaeromatidae) from Sungai Brunei estuary, Brunei Darussalam. Marine Biodiversity Records(e18).

Ian C. Duggan and Kevin R. Eastwood (2012) Detection and distribution of *Craspedacusta sowerbii*: Observations of medusae are not enough. Aquatic Invasions (2012) Volume 7, Issue 2: 271–275

Idoia Adarraga and Julián Martínez (2012) First record of the invasive brackish water mytilid *Limnoperna securis* (Lamarck, 1819) in the Bay of Biscay. Aquatic Invasions (2012) Volume 7, Issue 2: 171–180

Ignacio Bárbara, Sook-Young Lee, Viviana Peña, Pilar Díaz, Javier Cremades, Jung Hyun Oak and Han-Gu Choi (2008) *Chrysymenia wrightii* (Rhodymeniales, Rhodophyta) a new non-native species for the European Atlantic Coast. Aquatic Invasions (2008) Volume 3, Issue 4: 367-375

Imed Jribi and Mohamed Nejmeddine Bradai, (2012) First record of the Lessepsian migrant species *Lagocephalus sceleratus* (Gmelin, 1789) (Actinopterygii: Tetraodontidae) in the Central Mediterranean. BioInvasions Records (2012) Volume 1, Issue 1: 49–52

Immacolata Faccia, Alexander Alyakrinsky and Carlo Nike Bianchi (2009) The crab that came in from the cold: first record of *Paralithodes camtschaticus* (Tilesius, 1815) in the Mediterranean Sea. Aquatic Invasions (2009) Volume 4, Issue 4: 715-718

Ioannou, G., Michailidis, N., Loucaides, A., Manitaras, I., (2010) First Occurrence Of *Scarus ghobban* (Actinopterygii: Scaridae) In The Coastal Waters Of Cyprus (Eastern Mediterranean Sea). Mediterranean Marine Science, North America, 11, Oct. 2010.

Jacobo Santander-Monsalvo, Israel López-Huerta, Alfonso Aguilar-Perera and Armin Tuz-Sulub, (2012) First record of the red lionfish (*Pterois volitans* [Linnaeus, 1758]) off the coast of Veracruz, Mexico. BioInvasions Records (2012) Volume 1, Issue 2: 121–124

Jaen Nieto Amat, Frederico Cardigos and Ricardo Serrão Santos (2008) The recent northern introduction of the seaweed *Caulerpa webbiana* (Caulerpales, Chlorophyta) in Faial, Azores Islands (North-Eastern Atlantic). Aquatic Invasions (2008) Volume 3, Issue 4: 417-422



James A. Morris, Jr., Mary R. Carman, K. Elaine Hoagland, Emma R.M. Green-Beach and Richard C. Karney (2009) Impact of the invasive colonial tunicate *Didemnum vexillum* on the recruitment of the bay scallop (*Argopecten irradians irradians*) and implications for recruitment of the sea scallop (*Placopecten magellanicus*) on Georges Bank. *Aquatic Invasions* (2009) Volume 4, Issue 1: 207-211

James F. Reinhardt, Lauren M. Stefaniak, David M. Hudson, Joseph Mangiafico, Rebecca Gladych and Robert B. Whitlatch (2010) First record of the non-native light bulb tunicate *Clavelina lepadiformis* (Müller, 1776) in the northwest Atlantic. *Aquatic Invasions* (2010) Volume 5, Issue 2: 185-190

James Page, (2013) First record of the painted spiny lobster *Panulirus versicolor* (Latrielle, 1804) in coastal Georgia, USA. *BioInvasions Records* (2013) Volume 2, Issue 2: 149–152

Jan Soors, Ton van Haaren, Tarmo Timm and Jeroen Speybroeck (2013) *Bratislavia dadayi* (Michaelsen, 1905) (Annelida: Clitellata: Naididae): a new non-indigenous species for Europe, and other non-native annelids in the Schelde estuary. *Aquatic Invasions* (2013) Volume 8, Issue 1: 37–44

Janne Raunio, Lauri Paasivirta and Yngve Brodin (2009) Marine midge *Telmatogeton japonicus* Tokunaga (Diptera: Chironomidae) exploiting brackish water in Finland. *Aquatic Invasions* (2009) Volume 4, Issue 2: 405-408

Jannes Landschoff, Dagmar Lackschewitz, Katharina Kesy and Karsten Reise (2013) Globalization pressure and habitat change: Pacific rocky shore crabs invade armored shorelines in the Atlantic Wadden Sea. *Aquatic Invasions* (2013) Volume 8, Issue 1: 77–87

Jasna Lajtner and Petar Crnčan (2011) Distribution of the invasive bivalve *Sinanodonta woodiana* (Lea, 1834) in Croatia (pp S119-S124) Volume 6, Supplement 1

Jean-Claude Dauvin (2009) Asian Shore Crabs *Hemigrapsus* spp. (Crustacea: Brachyura: Grapsoidea) continue their invasion around the Cotentin Peninsula, Normandy, France: Status of the *Hemigrapsus* population in 2009. *Aquatic Invasions* (2009) Volume 4, Issue 4: 605-611

Jean-Claude Dauvin (2009) Establishment of the invasive Asian shore crab *Hemigrapsus sanguineus* (De Haan, 1835) (Crustacea: Brachyura: Grapsoidea) from the Cotentin Peninsular, Normandy, France. *Aquatic Invasions* (2009) Volume 4, Issue 3: 467-472

Jean-Claude Dauvin and Fabien Dufossé (2011) *Hemigrapsus sanguineus* (De Haan, 1835) (Crustacea: Brachyura: Grapsoidea) a new invasive species in European waters: the case of the French English Channel coast (2008-2010). *Aquatic Invasions* (2011) Volume 6, Issue 3: 329–338

Jean-Claude Dauvin, Armonie Tous Rius and Thierry Ruellet (2009) Recent expansion of two invasive crabs species *Hemigrapsus sanguineus* (de Haan, 1835) and *H. takanoi* Asakura and Watanabe, 2005 along the Opal Coast, France. *Aquatic Invasions* (2009) Volume 4, Issue 3: 451-465

Jean-Michel Brylinski, Elvire Antajan, Thomas Raud and Dorothée Vincent (2012) First record of the Asian copepod *Pseudodiaptomus marinus* Sato, 1913 (Copepoda: Calanoida: Pseudodiaptomidae) in the southern bight of the North Sea along the coast of France. *Aquatic Invasions* (2012) Volume 7, Issue 4: 577–584

Jennifer L. Martin, Murielle M. LeGresley, Bruce Thorpe and Paul McCurdy (2011) Non-indigenous tunicates in the Bay of Fundy, eastern Canada (2006–2009). *Aquatic Invasions* (2011) Volume 6, Issue 4: 405–412

Jeroen Goud and Constantine Mifsud (2009) *Fulvia fragilis* (Forsskål in Niebuhr, 1775) (Bivalvia: Cardiidae), an alien species new to the Maltese malacofauna. *Aquatic Invasions* (2009) Volume 4, Issue 2: 389-391

John S. Ryland, John D.D. Bishop, Hans De Blauwe, Aliya El Nagar, Dan Minchin, Christine A. Wood and Anna L.E. Yunnice (2011) Alien species of *Bugula* (Bryozoa) along the Atlantic coasts of Europe. *Aquatic Invasions* (2011) Volume 6, Issue 1: 17–31

Jørgen Lützen, Marco Faasse, Adriaan Gittenberger, Henrik Glenner and Erik Hoffmann (2012) The Japanese oyster drill *Ocenebrellus inornatus* (Récluz, 1851) (Mollusca, Gastropoda, Muricidae), introduced to the Limfjord, Denmark. *Aquatic Invasions* (2012) Volume 7, Issue 2: 181–191

Joseph M. Caffrey, Stephanie Evers, Michael Millane and Helen Moran (2011) Current status of Ireland's newest invasive species – the Asian clam *Corbicula fluminea*. *Aquatic Invasions* (2011) Volume 6, Issue 3: 291–299

Juan Garcia-de-Lomas, Elías D. Dana, Javier López-Santiago, Rubén González, Guillermo Ceballos and Fernando Ortega (2009) First record of the North American black bullhead *Ameiurus melas* (Rafinesque, 1820) in the Guadalquivir Estuary (Southern Spain). *Aquatic Invasions* (2009) Volume 4, Issue 4: 719-723

Julia D. Nunn and Dan Minchin (2009) Further expansions of the Asian tunicate *Styela clava* Herdman 1882 in Ireland. *Aquatic Invasions* (2009) Volume 4, Issue 4: 591-596

Julián Comesaña and Cesar Ayres (2009) New data on the distribution of pumpkinseed *Lepomis gibbosus* and largemouth bass *Micropterus salmoides*, and of non-endemic Iberian gudgeon *Gobio lozanoi* in the Galicia region (NW Spain). *Aquatic Invasions* (2009) Volume 4, Issue 2: 425-427

Julián Martínez and Idoia Adarraga (2008) First record of invasive caprellid *Caprella scaura* Templeton, 1836 sensu lato (Crustacea: Amphipoda: Caprellidae) from the Iberian Peninsula. *Aquatic Invasions* (2008) Volume 3, Issue 2: 165-171

Juliana González, Marcela Grijalba-Bendeck, Arturo Acero P. and Ricardo Betancur-R. (2009) The invasive red lionfish, *Pterois volitans* (Linnaeus, 1758), in the southwestern Caribbean Sea. *Aquatic Invasions* (2009) Volume 4, Issue 3: 507-510

Justin I. McDonald (2013) Detection of the tropical mussel species *Perna viridis* in temperate Western Australia: possible association between spawning and a marine heat pulse. *Aquatic Invasions* (2012) Volume 7, Issue 4: 483–490

Kalogirou, S., (2010) First Record Of The Non-Indigenous Fangtooth Moray *Enchelycore anatina* From Rhodes Island, South- Eastern Aegean Sea. *Mediterranean Marine Science*, North America, 11, Oct. 2010.

Kalogirou, S., (2013) Ecological Characteristics Of The Invasive Pufferfish *Lagocephalus sceleratus* (Gmelin, 1789) In The Eastern Mediterranean Sea – A Case Study From Rhodes. *Mediterranean Marine Science*, North America, 14, Apr. 2013.

- Kara, M. H., F. Rouag, et al. (2012). Westward range expansion of the lessepsian spotted halfbeak *Hemiramphus far* (Hemiramphidae) in the Mediterranean Sea. *Marine Biodiversity Records*(e45).
- Karhan, S., Kalkan, E., Simboura, N., Mutlu, E., Bekolet, M., (2008) On The Occurrence And Established Populations Of The Alien Polychaete *Polydora cornuta* Bosc, 1802 (Polychaeta: Spionidae) In The Sea Of Marmara And The Bosphorus Strait (Turkey). *Mediterranean Marine Science, North America*, 9, May. 2008.
- Karhan, S., Yokes, M., (2009) Additional Records Of The Alien Gastropod, *Ergalatax junionae* Houart, 2008 (Gastropoda: Muricidae), From The Eastern Mediterranean. *Mediterranean Marine Science, North America*, 10, Jun. 2009.
- Karl Van Ginderdeuren, Kris Hostens, Stefan Hoffman, Lies Vansteenbrugge, Karen Soenen, Hans De Blauwe, Johan Robbens and Magda Vincx (2012) Distribution of the invasive ctenophore *Mnemiopsis leidyi* in the Belgian part of the North Sea. *Aquatic Invasions* (2012) Volume 7, Issue 2: 163–169
- Katarina Zorić, Dunja Jakovčev-Todorović, Vesna Đikanović, Božica Vasiljević, Jelena Tomović, Ana Atanacković, Vladica Simić and Momir Paunović (2011) Distribution of the Ponto-Caspian polychaeta *Hypania invalida* (Grube, 1860) in inland waters of Serbia. *Aquatic Invasions* (2011) Volume 6, Issue 1: 33–38
- Kate Griffith, Stephen Mowat, Rohan H.F. Holt, Kirsten Ramsay, John D.D. Bishop, Gretchen Lambert and Stuart R. Jenkins (2009) First records in Great Britain of the invasive colonial ascidian *Didemnum vexillum* Kott, 2002. *Aquatic Invasions* (2009) Volume 4, Issue 4: 581-590
- Katharina C. M. Heiler, Abraham bij de Vaate, Klemens Ekschmitt, Parm V. von Oheimb, Christian Albrecht and Thomas Wilke (2013) Reconstruction of the early invasion history of the quagga mussel (*Dreissena rostriformis bugensis*) in Western Europe (pp 53-57) Volume 8, Issue 1
- Katharina Reichert and Jan Beermann (2011) First record of the Atlantic gammaridean amphipod *Melita nitida* Smith, 1873 (Crustacea) from German waters (Kiel Canal). *Aquatic Invasions* (2011) Volume 6, Issue 1: 103–108
- Katsanevakis, S., Tsiamis, K., (2009) Records Of Alien Marine Species In The Shallow Coastal Waters Of Chios Island (2009). *Mediterranean Marine Science, North America*, 10, Dec. 2009.
- Katsanevakis, S., Tsiamis, K., Ioannou, G., Michailidis, N., Zenetos, A., (2009) Inventory Of Alien Marine Species Of Cyprus (2009). *Mediterranean Marine Science, North America*, 10, Dec. 2009.
- Kazak, M., Cavas, L., (2007) On The Occurrence Of *Bursatella leachii* De Blainville, 1817 In Izmir Bay, Turkey. *Mediterranean Marine Science, North America*, 8, Dec. 2007.
- Keith M. Bayha and William M. Graham (2011) First confirmed reports of the rhizostome jellyfish *Mastigias* (Cnidaria: Rhizostomeae) in the Atlantic basin. *Aquatic Invasions* (2011) Volume 6, Issue 3: 361–366
- Kirsty F. Smith, Joshua Thia, Chrissen E. C. Gemmill, S. Craig Cary and Andrew E. Fidler (2012) Barcoding of the cytochrome oxidase I (COI) indicates a recent introduction of *Ciona savignyi* into New Zealand and provides a rapid method for *Ciona* species discrimination. *Aquatic Invasions* (2012) Volume 7, Issue 3: 305–313

Kirsty F. Smith, Patrick L. Cahill and Andrew E. Fidler (2010) First record of the solitary ascidian *Ciona savignyi* Herdman, 1882 in the Southern Hemisphere. *Aquatic Invasions* (2010) Volume 5, Issue 4: 363–368

Kjersti Sjøtun, Vivian Husa and Viviana Peña (2008) Present distribution and possible vectors of introductions of the alga *Heterosiphonia japonica* (Ceramiales, Rhodophyta) in Europe. *Aquatic Invasions* (2008) Volume 3, Issue 4: 377-394

Koukousioura, O., Dimiza, M., Triantaphyllou, M., (2010) Alien Foraminifers From Greek Coastal Areas (Aegean Sea, Eastern Mediterranean). *Mediterranean Marine Science*, North America, 11, Jun. 2010.

Krešimir Žganec, Sanja Gottstein and Sandra Hudina (2009) Ponto-Caspian amphipods in Croatian large rivers. *Aquatic Invasions* (2009) Volume 4, Issue 2: 327-335

Kringpaka Wangkulangkul and Vachira Lheknim (2008) The occurrence of an invasive alien mussel *Mytilopsis adamsi* Morrison, 1946 (Bivalvia: Dreissenidae) in estuaries and lagoons of the lower south of the Gulf of Thailand with comments on their establishment . *Aquatic Invasions* (2008) Volume 3, Issue 3: 325-330

Krug P.J., Asif J.H., Baeza I., Morley M.S., Blom W.M., Gosliner T.M., (2012) Molecular Identification Of Two Species Of The Carnivorous Sea Slug Philine, Invaders Of The Us West Coast. *Biological Invasions*, 2012, 14(11), Pp. 2447-2459.

Langeneck, J., M. Marcelli, et al. (2012). Unexpected alien species in Cyprus waters: *Acanthurus coeruleus* (Actinopterygii: Acanthuridae). *Marine Biodiversity Records*(e116).

Lasram, F.B.R., Mouillot, D. (2009) Increasing southern invasion enhances congruence between endemic and exotic Mediterranean fish fauna. *Biological Invasions* 11,697- 711

Laura P. Kremer and Rosana M. Rocha (2011) The role of *Didemnum perlucidum* F. Monniot, 1983 (Tunicata, Ascidiacea) in a marine fouling community. *Aquatic Invasions* (2011) Volume 6, Issue 4: 441–449

Lauren Stefaniak, Gretchen Lambert, Adriaan Gittenberger, Huan Zhang, Senjie Lin and Robert B. Whitlatch (2009) Genetic conspecificity of the worldwide populations of *Didemnum vexillum* Kott, 2002. *Aquatic Invasions* (2009) Volume 4, Issue 1: 29-44

Lena Granhag, Sanna Majaneva and Lene Friis Møller (2013) First recordings of the ctenophore *Euplokamis* sp. (Ctenophora, Cydippida) in Swedish coastal waters and molecular identification of this genus. *Aquatic Invasions* (2012) Volume 7, Issue 4: 455–463

Leo G. Nico, William F. Loftus and James P. Reid (2009) Interactions between non-native armored suckermouth catfish (Loricariidae: Pterygoplichthys) and native Florida manatee (*Trichechus manatus latirostris*) in artesian springs. *Aquatic Invasions* (2009) Volume 4, Issue 3: 511-519

Lezama, C., Carranza, A., Fallabrino, A., Estrades, A., Scarabino, F., López-Mendilaharsu, M., (2013) Unintended Backpackers: Bio-Fouling Of The Invasive Gastropod *Rapana venosa* On The Green Turtle *Chelonia mydas* In The Río De La Plata Estuary, Uruguay. *Biological Invasions*, 2013, 15(3), Pp. 483-487

Liam P. Gregory, Marnie L. Campbell, Carmen Primo and Chad L. Hewitt (2013) Biotic and abiotic factors affecting the Tasmanian distribution and density of the introduced New Zealand porcelain crab *Petrolisthes elongatus*. *Aquatic Invasions* (2012) Volume 7, Issue 4: 491–501

Liao, Y.-C., Chen, L.-S., Shao, K.-T., (2010) The Predatory Atlantic Red Drum, *Sciaenops ocellatus*, Has Invaded The Western Taiwanese Coast In The Indo-West Pacific. *Biological Invasions*, 2010, 12(7), Pp. 1961-1965

Lipej, L., Mavric, B., Orlando-Bonaca, M., Malej, A., (2012) State Of The Art Of The Marine Non-Indigenous Flora And Fauna In Slovenia. *Mediterranean Marine Science*, North America, 13, Sep. 2012.

Lluís Benejam, Sandra Saura-Mas and Anna Saperas (2011) First record of the spiny-cheek crayfish *Orconectes limosus* (Rafinesque, 1817) introduced to the Iberian Peninsula (pp S111-S113) Volume 6, Supplement 1

Lodola, A., D. Savini, et al. (2012). First record of *Tricellaria inopinata* (Bryozoa: Candidae) in the harbours of La Spezia and Olbia, Western Mediterranean Sea (Italy). *Marine Biodiversity Records*(e41).

Luque, A. A., A. Barrajon, et al. (2012). *Marginella glabella* (Mollusca: Gastropoda: Marginellidae): a new alien species from tropical West Africa established in southern Mediterranean Spain through a new introduction pathway. *Marine Biodiversity Records*(e17).

Lyudmila Kamburska, Rosaria Lauceri and Nicoletta Riccardi (2013) Establishment of a new alien species in Lake Maggiore (Northern Italy): *Anodonta (Sinanodonta) woodiana* (Lea, 1834) (Bivalvia: Unionidae) (pp 111-116) Volume 8, Issue 1

Mach M.E., Levings C.D., McDonald P.S., Chan K.M.A., (2012) An Atlantic Infaunal Engineer Is Established In The Northeast Pacific: *Clymenella torquata* (Polychaeta: Maldanidae) On The British Columbia And Washington Coasts. *Biological Invasions*, 2012, 14(3), Pp. 503-507.

Malaquias, M. A. E., G. Calado, et al. (2012). On the occurrence of the Caribbean sea slug *Thuridilla mazda* in the eastern Atlantic Ocean. *Marine Biodiversity Records*(e50).

Mamish, S., Durugham, H., Said Al Masri, M., (2012) First Record Of *Aequorea globosa* Eschscholtz, 1829 (Cnidaria: Hydrozoa) In The Coast Of Syria. *Mediterranean Marine Science*, North America, 13, Sep. 2012

Manal R. Nader and Shadi El Indary (2011) First record of *Diadema setosum* (Leske, 1778) (Echinodermata, Echinoidea, Diadematidae) from Lebanon, Eastern Mediterranean (pp S23-S25) Volume 6, Supplement 1

Marco A. Faasse and Adriana Giangrande (2012) Description of *Bispira polyomma* n. sp. (Annelida: Sabellidae): a probable introduction to The Netherlands. *Aquatic Invasions* (2012) Volume 7, Issue 4: 591–598

Marco Faasse and Marianne Ligthart (2009) American (*Urosalpinx cinerea*) and Japanese oyster drill (*Ocenebrellus inornatus*) (Gastropoda: Muricidae) flourish near shellfish culture plots in The Netherlands. *Aquatic Invasions* (2009) Volume 4, Issue 2: 321-326

Marco Milazzo, Ernesto Azzurro and Fabio Badalamenti, (2012) On the occurrence of the silverstripe blaasop *Lagocephalus sceleratus* (Gmelin, 1789) along the Libyan coast. *BioInvasions Records* (2012) Volume 1, Issue 2: 125–127

Marcos Tavares and Joel B. Mendonça Jr (2011) The occurrence of the Indo-Pacific swimming crab *Scylla serrata* (Forskål, 1775) in the Southwestern Atlantic (Crustacea: Brachyura: Portunidae) (pp S49-S51) Volume 6, Supplement 1

Marcus K. Drotz, Matz Berggren, Stefan Lundberg, Kennet Lundin and Ted von Proschwitz (2010) Invasion routes, current and historical distribution of the Chinese mitten crab (*Eriocheir sinensis* H. Milne Edwards, 1853) in Sweden. *Aquatic Invasions* (2010) Volume 5, Issue 4: 387–396

Mareike Hammann, Björn Buchholz, Rolf Karez and Florian Weinberger (2013) Direct and indirect effects of *Gracilaria vermiculophylla* on native *Fucus vesiculosus* (in press). *Aquatic Invasions* (2013) Volume 8 in press

Maria Alexandra Chícharo, Tânia Leitão, Pedro Range, Cristina Gutierrez, Jesus Morales, Pedro Morais and Luís Chícharo (2009) Alien species in the Guadiana Estuary (SE-Portugal/SW-Spain): *Blackfordia virginica* (Cnidaria, Hydrozoa) and *Palaemon macrodactylus* (Crustacea, Decapoda): potential impacts and mitigation measures. *Aquatic Invasions* (2009) Volume 4, Issue 3: 501-506

Maria Antonietta Pancucci-Papadopoulou, Maria Corsini-Foka, Kostantinos Tsiamis and Stefanos Kalogirou (2009) The occurrence of *Carupa tenuipes* Dana, 1851 (Crustacea: Brachyura: Portunidae) from Rhodos Island (SE Aegean Sea, Greece). *Aquatic Invasions* (2009) Volume 4, Issue 4: 713-714

Marković, O., Gökoğlu, M., Petović, S., Mandić, M., (2013) First Record Of The Northern Brown Shrimp, *Farfantepenaeus aztecus* (Ives, 1891) (Crustacea: Decapoda: Penaeidae) In The South Adriatic Sea, Montenegro. *Mediterranean Marine Science*, North America, 15, Dec. 2013.

Martin H. Davis and Mary E. Davis (2008) First record of *Styela clava* (Tunicata, Ascidiacea) in the Mediterranean region. *Aquatic Invasions* (2008) Volume 3, Issue 2: 125-132

Maruska, K. P., Peyton, K. A., (2007) Interspecific Spawning Between A Recent Immigrant And An Endemic Damselfish (Pisces: Pomacentridae) In The Hawaiian Islands. *Pacific Science*, 2007, 61(2), Pp. 211-221

Mary R. Carman and David W. Grunden (2010) First occurrence of the invasive tunicate *Didemnum vexillum* in eelgrass habitat. *Aquatic Invasions* (2010) Volume 5, Issue 1: 23-29

Mary R. Carman, K. Elaine Hoagland, Emma Green-Beach and David W. Grunden (2009) Tunicate faunas of two North Atlantic-New England islands: Martha's Vineyard, Massachusetts and Block Island, Rhode Island. *Aquatic Invasions* (2009) Volume 4, Issue 1: 65-70

Mary R. Carman, Stephan G. Bullard, Rosana M. Rocha, Gretchen Lambert, Jennifer A. Dijkstra, James J. Roper, Anne Goodwin, Mimi M. Carman and Elisabete M. Vail (2011) Ascidians at the Pacific and Atlantic entrances to the Panama Canal. *Aquatic Invasions* (2011) Volume 6, Issue 4: 371–380

Mehmet Gökoğlu and Elif Özgür (2008) First report of *Chromodoris annulata* Eliot, 1904 (Mollusca, Opisthobranchia, Chromodorididae) on the Levantine coast of Turkey, Eastern Mediterranean. *Aquatic Invasions* (2008) Volume 3, Issue 4: 435-437

- Mehmet Gökoğlu, Yasar Özvarol and B. Ahmet Balci, (2012) Westward extension of the Indo-Pacific cardinal fish *Apogon fasciatus* (White, 1790) along the Turkish coast. *BioInvasions Records* (2012) Volume 1, Issue 3: 225–227
- Mélanie Béguer, Julien Bergé, Jean Martin, Joanna Martinet, Gaëlle Pauliac, Michel Girardin and Philippe Boët (2011) Presence of *Palaemon macrodactylus* in a European estuary: evidence for a successful invasion of the Gironde (SW France). *Aquatic Invasions* (2011) Volume 6, Issue 3: 301–318
- Melissa A. Frey, Heidi N. Gartner, Cathryn Clarke Murray and Thomas W. Therriault (2009) First confirmed records of the non-native amphipod *Caprella mutica* (Schurin, 1935) along the coast of British Columbia, Canada, and the potential for secondary spread via hull fouling. *Aquatic Invasions* (2009) Volume 4, Issue 3: 495–499
- Menachem Goren, Bella S. Galil, Ariel Diamant, Kfir Gayer and Nir Stern (2009) First record of the Indo-Pacific cardinal fish *Apogon fasciatus* (White, 1790) in the Mediterranean Sea. *Aquatic Invasions* (2009) Volume 4, Issue 2: 409–411
- Menachem Goren, Gregory Lipsky, Eran Brokovich and Avigdor Abelson (2010) A 'flood' of alien cardinal fishes in the eastern Mediterranean - first record of the Indo-Pacific *Cheilodipterus novemstriatus* (Rüppell, 1838) in the Mediterranean Sea (pp S49–S51)
- Menachem Goren, Kfir Gayer and Nimrod Lazarus (2009) First record of the Far East chameleon goby *Tridentiger trionocephalus* (Gill, 1859) in the Mediterranean Sea. *Aquatic Invasions* (2009) Volume 4, Issue 2: 413–415
- Menachem Goren, Nir Stern, Bella S. Galil and Ariel Diamant (2010) First record of the Indo-Pacific arrow bulleye *Priacanthus sagittarius* Starnes, 1988 in the Mediterranean Sea (pp S45–S47) *Aquatic Invasions* 5(Suppl. 1)
- Menachem Goren, Nir Stern, Bella S. Galil and Ariel Diamant (2011) On the occurrence of the Indo-Pacific *Champsodon nudivittis* (Ogilby, 1895) (Perciformes, Champsodontidae) from the Mediterranean coast of Israel, and the presence of the species in the Red Sea (pp S115–S117) Volume 6, Supplement 1
- Menachem Goren, Roy Gvili and Bella S. Galil (2011) The reef-associating butterfly fish *Chaetodon austriacus* Rüppell, 1836 in the Mediterranean: The implication of behavioral plasticity for bioinvasion hazard assessment (pp S143–S145) Volume 6, Supplement 1
- Meric, E., M. B. Yokes, et al. (2012). A new record in eastern Aegean Sea (Turkey): *Polymorphina fistulosa*. *Marine Biodiversity Records*(e103).
- Meric, E., M. B. Yokes, et al. (2013). First report of *Pararotalia calcariformata* from the Hatay coastline (Turkey-north-eastern Mediterranean). *Marine Biodiversity Records*(e31).
- Michael J. Page, Donald J. Morrisey, Sean J. Handley and Crispin Middleton (2011) Biology, ecology and trials of potential methods for control of the introduced ascidian *Eudistoma elongatum* (Herdman, 1886) in Northland, New Zealand. *Aquatic Invasions* (2011) Volume 6, Issue 4: 515–517
- Michał Grabowski and Aleksandra Jabłońska (2009) First records of *Branchiura sowerbyi* Beddard, 1892 (Oligochaeta: Tubificidae) in Greece. *Aquatic Invasions* (2009) Volume 4, Issue 2: 365–367

- Michal Grabowski, Tomasz Rewicz, Karolina Bacela-Spychalska, Alicja Konopacka, Tomasz Mamos and Krzysztof Jazdzewski (2012) Cryptic invasion of Baltic lowlands by freshwater amphipod of Pontic origin. *Aquatic Invasions* (2012) Volume 7, Issue 3: 337–346
- Michal Straka and Jan Špaček (2009) First record of alien crustaceans *Atyaephyra desmarestii* (Millet, 1831) and *Jaera istri* Veuille, 1979 from the Czech Republic. *Aquatic Invasions* (2009) Volume 4, Issue 2: 397-399
- Michel Bariche and Ernesto Azzurro, (2012) New records and establishment of the Indian Ocean twospot cardinalfish *Cheilodipterus novemstriatus* (Rüppell, 1838) in the Mediterranean Sea. *BioInvasions Records* (2012) Volume 1, Issue 4: 299–301
- Michel Bariche, (2012) Recent evidence on the presence of *Heniochus intermedius* (Teleostei: Chaetodontidae) and *Platycephalus indicus* (Teleostei: Platycephalidae) in the Mediterranean Sea. *BioInvasions Records* (2012) Volume 1, Issue 1: 53–57
- Michel Bariche, Murat Bilecenoglu and Ernesto Azzurro, (2013) Confirmed presence of the Red Sea goatfish *Parupeneus forsskali* (Fourmanoir & Guézé, 1976) in the Mediterranean Sea. *BioInvasions Records* (2013) Volume 2, Issue 1: 173–175
- Micheli Duarte de Paula Costa, José Maria Souza-Conceição, Paulo Ricardo Schwingel and Henry Louis Spach (2011) Assessment of larval distribution of invasive *Omobranchus punctatus* (Valenciennes, 1836) (Pisces: Blenniidae) in a subtropical estuary (Southern Brazil) (pp S33-S38) Volume 6, Supplement 1
- Mikael von Numers, (2013) The first record of *Maeotias marginata* (Modeer, 1791) (Cnidaria, Hydrozoa) from Finland, northern Baltic Sea. *BioInvasions Records* (2013) Volume 2, Issue 1: 39–42
- Mikhail O. Son (2008) Rapid expansion of the New Zealand mud snail *Potamopyrgus antipodarum* (Gray, 1843) in the Azov-Black Sea Region. *Aquatic Invasions* (2008) Volume 3, Issue 3: 335-340
- Minchin, D., A. Lodola, et al. (2012). The occurrence of *Caprella scaura* (Amphipoda: Caprellidae) in marinas in Lanzarote Island (Canary Archipelago, Macaronesia). *Marine Biodiversity Records*(e113).
- Mineur F., Le Roux A., Stegenga H., Verlaque M., Maggs C.A., 2012. Four New Exotic Red Seaweeds On European Shores. *Biological Invasions*, 2012, 14(8), Pp. 1635-1641.
- Molnar, J.L., Gamboa, R.L., Revenga,C., Spalding,M.D. (2008) Assessing the global threat of invasive species to marine biodiversity- *Frontiers in Ecology and the Environment* 6 (9),485-492
- Murat Bilecenoglu, Mehmet Baki Yokeş and Ahmet Eryigit (2008) First record of *Vanderhorstia mertensi* Klausewitz, 1974 (Pisces, Gobiidae) in the Mediterranean Sea. *Aquatic Invasions* (2008) Volume 3, Issue 4: 475-478
- Murtada D. Naser and Mikhail O. Son (2009) First record of the New Zealand mud snail *Potamopyrgus antipodarum* (Gray 1843) from Iraq: the start of expansion to Western Asia? *Aquatic Invasions* (2009) Volume 4, Issue 2: 369-372
- Nadezhda A. Berezina and Zdeněk Ďuriš (2008) First record of the invasive species *Dikerogammarus villosus* (Crustacea: Amphipoda) in the Vltava River (Czech Republic). *Aquatic Invasions* (2008) Volume 3, Issue 4: 455-460



Nastav, B., Malej, M., Malej Jr., A., Malej, A., 2013. Is It Possible To Determine The Economic Impact Of Jellyfish Outbreaks On Fisheries? A Case Study – Slovenia. *Mediterranean Marine Science*, North America, 14, Mar. 2013.

Natalia M. Kalinkina and Nadezhda A. Berezina (2010) First record of *Pontogammarus robustoides* Sars, 1894 (Crustacea: Amphipoda) in the Gulf of Riga (Baltic Sea) (pp S5-S7) *Aquatic Invasions* (2010) Volume 5, Supplement 1: S5-S7 Aquatic Invasions 5(Suppl. 1)

Nicolas Lavesque, Guy Bachelet, Mélanie Béguer, Michel Girardin, Mario Lepage, Hugues Blanchet, Jean-Claude Sorbe, Julien Modéran, Pierre-Guy Sauriau and Isabelle Auby (2010) Recent expansion of the oriental shrimp *Palaemon macrodactylus* (Crustacea: Decapoda) on the western coasts of France (pp S103-S108) *Aquatic Invasions* 5(Suppl. 1)"

Nicole L. Lengyel, Jeremy S. Collie and Page C. Valentine (2009) The invasive colonial ascidian *Didemnum vexillum* on Georges Bank – Ecological effects and genetic identification. *Aquatic Invasions* (2009) Volume 4, Issue 1: 143-152

Nils van Kessel, Martijn Dorenbosch and Frank Spikmans (2009) First record of Pontian monkey goby, *Neogobius fluviatilis* (Pallas, 1814), in the Dutch Rhine. *Aquatic Invasions* (2009) Volume 4, Issue 2: 421-424

Nina Eschweiler and Christian Buschbaum (2011) Alien epibiont (*Crassostrea gigas*) impacts on native periwinkles (*Littorina littorea*). *Aquatic Invasions* (2011) Volume 6, Issue 3: 281–290

Nurçin Gülşahin and Ahmet Nuri Tarkan (2011) The first confirmed record of the alien jellyfish *Rhopilema nomadica* Galil, 1990 from the southern Aegean coast of Turkey (pp S95-S97) Volume 6, Supplement 1

Nurçin Gülşahin and Ahmet Nuri Tarkan, (2012) The first record of *Phyllorhiza punctata* von Lendenfeld, 1884 from the southern Aegean Coast of Turkey. *BioInvasions Records* (2012) Volume 1, Issue 1: 41–44

Occhipinti-Ambrogi, A., Galil, B., (2008) The Northernmost Record Of The Blue-Spotted Cornetfish From The Mediterranean Sea. *Mediterranean Marine Science*, North America, 9, Dec. 2008.

Oscar Casas-Monroy, Suzanne Roy and André Rochon (2011) Ballast sediment-mediated transport of non-indigenous species of dinoflagellates on the East Coast of Canada. *Aquatic Invasions* (2011) Volume 6, Issue 3: 231–248

Oscar M. Lasso-Alcalá and Juan M. Posada (2010) Presence of the invasive red lionfish, *Pterois volitans* (Linnaeus, 1758), on the coast of Venezuela, southeastern Caribbean Sea (pp S53-S59) *Aquatic Invasions* 5(Suppl. 1)

Ovalis, P., Zenetos, A., (2007) On The Establishment Of Two More Alien Mollusca (*Chama aspersa* Reeve, 1846 And *Chama asperella* Lamarck, 1819) In The Eastern Mediterranean. *Mediterranean Marine Science*, North America, 8, Dec. 2007.

Oxana Munjiu and Igor Shubernetski (2010) First record of Asian clam *Corbicula fluminea* (Müller, 1774) in the Republic of Moldova (pp S67-S70) *Aquatic Invasions* 5(Suppl. 1)

- Ozcan, T., Ates, A., Katagan, T., (2008) Expanding Distribution And Occurrence Of The Indo-Pacific Stomatopod, *Erugosquilla massavensis* (Kossmann, 1880) On The Aegean Coast Of Turkey. Mediterranean Marine Science, North America, 9, Dec. 2008.
- Ozturk, B., (2012) A New Alien Gastropod *Pseudorhaphitoma iodolabiata* (Hornung & Mermod, 1928) (Mangeliidae, Mollusca) In The Mediterranean Sea. Mediterranean Marine Science, North America, 13, Jan. 2012.
- Pablo Ezequiel Meretta, Carolina Verónica Matula and Graciela Casas, (2012) Occurrence of the alien kelp *Undaria pinnatifida* (Laminariales, Phaeophyceae) in Mar del Plata, Argentina. BioInvasions Records (2012) Volume 1, Issue 1: 59–63
- Pamela J. Schofield (2009) Geographic extent and chronology of the invasion of non-native lionfish [*Pterois volitans* (Linnaeus, 1758) and *P. miles* (Bennett, 1828)] in the Western North Atlantic and Caribbean Sea. Aquatic Invasions (2009) Volume 4, Issue 3: 473-479
- Pamela J. Schofield (2010) Update on geographic spread of invasive lionfishes (*Pterois volitans* [Linnaeus, 1758] and *P. miles* [Bennett, 1828]) in the Western North Atlantic Ocean, Caribbean Sea and Gulf of Mexico (pp S117-S122) Aquatic Invasions 5(Suppl. 1)
- Panayotidis, P., (2006) On The Enigmatic Origin Of The Mediterranean Invasive *Caulerpa racemosa* (Caulerpales, Chlorophyta). Mediterranean Marine Science, North America, 7, Jun. 2006.
- Pancucci-Papadopoulou, M., Corsini-Foka, M., Naletaki, M., (2010) *Macrophthalmus graeffei* A. Milne Edwards, 1873 (Crustacea: Brachyura: Macrophthalmidae): A New Indo-Pacific Guest Off Rhodes Island (Se Aegean Sea, Greece). Mediterranean Marine Science, North America, 11, May. 2010.
- Pancucci-Papadopoulou, M., Naletaki, M., (2007) A New Alien Species In The Mediterranean? On The Presence Of *Sirpus monodi* Gordon, 1953 (Brachyura, Pirimelidae) In Greece. Mediterranean Marine Science, North America, 8, Dec. 2007.
- Pancucci-Papadopoulou, M., Zenetos, A., Corsini-Foka, M., Politou, C., (2005) Update Of Marine Alien Species In Hellenic Waters. Mediterranean Marine Science, North America, 6, Nov. 2005.
- Pat Hutchings, Christopher J. Glasby and Sander Wijnhoven (2012) Note on additional diagnostic characters for *Marphysa sanguinea* (Montagu, 1813) (Annelida: Eunicida: Eunicidae), a recently introduced species in the Netherlands. Aquatic Invasions (2012) Volume 7, Issue 2: 277–282
- Patrick J. Schembri and Reno Tonna (2011) Occurrence of the Malabar grouper *Epinephelus malabaricus* (Bloch & Schneider, 1801) (Actinopterygii, Perciformes, Serranidae), in the Maltese Islands (pp S129-S132) Volume 6, Supplement 1
- Paul Stebbing, Paul Johnson, Anthony Delahunty, Paul F. Clark, Tracy McCollin, Cameron Hale and Sarah Clark, (2012) Reports of American lobsters, *Homarus americanus* (H. Milne Edwards, 1837), in British waters. BioInvasions Records (2012) Volume 1, Issue 1: 17–23
- Paul W. Sammarco, Scott A. Porter and Stephen D. Cairns (2010) A new coral species introduced into the Atlantic Ocean - *Tubastraea micranthus* (Ehrenberg, 1834) (Cnidaria, Anthozoa, Scleractinia): An invasive threat? Aquatic Invasions (2010) Volume 5, Issue 2: 131-140

- Paulay, G., (2007) *Metopograpsus oceanicus* (Crustacea: Brachyura) In Hawai'i And Guam: Another Recent Invasive? *Pacific Science*, 2007, 61(2), Pp. 295-300
- Pecarevic, M., Mikus, J., Bratos Cetinic, A., Dulcic, J., Calic, M., (2013) Introduced Marine Species In Croatian Waters (Eastern Adriatic Sea). *Mediterranean Marine Science*, North America, 14, Mar. 2013.
- Pedro M. Raposeiro, João C. Ramos and Ana C. Costa (2009) First record of *Branchiura sowerbyi* Beddard, 1892 (Oligochaeta: Tubificidae) in Azores. *Aquatic Invasions* (2009) Volume 4, Issue 3: 487-490
- Pedro Morais, Joaquim Teodósio, Joaquim Reis, Maria Alexandra Chicharo and Luis Chicharo (2009) The Asian clam *Corbicula fluminea* (Müller, 1774) in the Guadiana River Basin (southwestern Iberian Peninsula): Setting the record straight. *Aquatic Invasions* (2009) Volume 4, Issue 4: 681-684
- Péter Borza (2009) First record of the Ponto-Caspian amphipod *Echinogammarus trichiatus* (Martynov, 1932) (= *Chaetogammarus trichiatus*) (Crustacea: Amphipoda) for the Middle-Danube (Slovakia and Hungary). *Aquatic Invasions* (2009) Volume 4, Issue 4: 693-696
- Peter Wirtz and João Canning-Clode (2009) The invasive bryozoan *Zoobotryon verticillatum* has arrived at Madeira Island. *Aquatic Invasions* (2009) Volume 4, Issue 4: 669-670
- Philip S. Sargent, Terri Wells, Kyle Matheson, Cynthia H. McKenzie and Don Deibel, (2013) First record of vase tunicate, *Ciona intestinalis* (Linnaeus, 1767) in coastal Newfoundland waters. *BioInvasions Records* (2013) Volume 2, Issue 2: 89–98
- Pierre Salameh, Oren Sonin, Dor Edelist and Daniel Golani (2011) First record of the Red Sea orangeface butterflyfish *Chaetodon larvatus* Cuvier, 1831 in the Mediterranean (pp S53-S55) Volume 6, Supplement 1
- Pieter Boets, Koen Lock, David Tempelman, Ton Van Haaren, Dirk Platvoet and Peter L.M. Goethals, (2012) First occurrence of the Ponto-Caspian amphipod *Echinogammarus trichiatus* (Martynov, 1932) (Crustacea: Gammaridae) in Belgium. *BioInvasions Records* (2012) Volume 1, Issue 2: 115–120
- Piotr Gruszka and Adam Woźniczka (2008) *Dikerogammarus villosus* (Sowinski, 1894) in the River Odra estuary – another invader threatening Baltic Sea coastal lagoons. *Aquatic Invasions* (2008) Volume 3, Issue 4: 395-403
- Rachel Collin, Alfonso A. Ramos-Esplá and Andrés Izquierdo (2010) Identification of the South Atlantic spiny slipper limpet *Bostrycapulus odites* Collin, 2005 (Caenogastropoda: Calyptraeidae) on the Spanish Mediterranean coast. *Aquatic Invasions* (2010) Volume 5, Issue 2: 197-200
- Rachel Collin, Paul Farrell and Simon Cragg (2009) Confirmation of the identification and establishment of the South American slipper limpet *Crepipatella dilatata* (Lamarck 1822) (Caenogastropoda: Calyptraeidae) in Northern Spain. *Aquatic Invasions* (2009) Volume 4, Issue 2: 377-380
- Rafael Bañón, Emilio Rolán and Manuel García-Tasende (2008) First record of the purple dye murex *Bolinus brandaris* (Gastropoda: Muricidae) and a revised list of non native molluscs from Galician waters (Spain, NE Atlantic). *Aquatic Invasions* (2008) Volume 3, Issue 3: 331-334
- Ralf Thiel, Jörg Scholle and Sandra Schulze, (2012) First record of the naked goby *Gobiosoma bosc* (Lacepède, 1800) in European waters. *BioInvasions Records* (2012) Volume 1, Issue 4: 295–298

Rémi M. Daigle and Christophe M. Herbinger (2009) Ecological interactions between the vase tunicate (*Ciona intestinalis*) and the farmed blue mussel (*Mytilus edulis*) in Nova Scotia, Canada. *Aquatic Invasions* (2009) Volume 4, Issue 1: 177-187

Rewicz, T., Rachalewski, M., Grabowski, M., (2014) First Record Of *Echinogammarus pungens* (H. Milne Edwards, 1840) (Crustacea, Amphipoda) From Africa With The Checklist Of North African Freshwater Gammarids. *Mediterranean Marine Science*, North America, 0, Jan. 2014.

Rodolfo C. Barros, Rosana M. da Rocha and Marcio R. Pie (2009) Human-mediated global dispersion of *Styela plicata* (Tunicata, Ascidiacea). *Aquatic Invasions* (2009) Volume 4, Issue 1: 45-57

Roger Cammaerts, Frank Spikmans, Nils van Kessel, Hugo Verreycken, Frédéric Chérot, Thierry Demol and Sébastien Richez (2012) Colonization of the Border Meuse area (The Netherlands and Belgium) by the non-native western tubenose goby *Proterorhinus semilunaris* (Heckel, 1837) (Teleostei, Gobiidae). *Aquatic Invasions* (2012) Volume 7, Issue 2: 251–258

Rokas Butkus, Eglė Šidagytė and Kęstutis Arbačiauskas (2012) Two morphotypes of the New Zealand mud snail *Potamopyrgus antipodarum* (J.E. Gray, 1843) (Mollusca: Hydrobiidae) invade Lithuanian lakes. *Aquatic Invasions* (2012) Volume 7, Issue 2: 211–218

Romain Scalone and Nicolas Rabet (2013) Presence of *Artemia franciscana* (Branchiopoda, Anostraca) in France: morphological, genetic, and biometric evidence. *Aquatic Invasions* (2013) Volume 8, Issue 1: 67–76

Ronald Fricke, Daniel Golani and Brenda Appelbaum-Golani, (2012) First record of the Indian Ocean anchovy *Stolephorus insularis* Hardenberg, 1933 (Clupeiformes: Engraulidae) in the Mediterranean. *BioInvasions Records* (2012) Volume 1, Issue 4: 303–306

Roohi A., Kideys A.E., Sajjadi A., Hashemian A., Pourgholam R., Fazli H., Khanari A.G., Eker-Develi E., (2010) Changes In Biodiversity Of Phytoplankton, Zooplankton, Fishes And Macroinvertebrates In The Southern Caspian Sea After The Invasion Of The Ctenophore *Mnemiopsis leidyi*. *Biological Invasions*, 2010, 12(7), Pp. 2343-2361

Ros Clemente, M., (2013) The Spreading Of The Non-Native Caprellid (Crustacea: Amphipoda) *Caprella scaura* Templeton, 1836 Into Southern Europe And Northern Africa: A Complicated Taxonomic History. *Mediterranean Marine Science*, North America, 15, Sep. 2013.

Rosana Moreira da Rocha, Laura Pioli Kremer and Karin Hoch Fehlaue-Ale (2012) Lack of COI variation for *Clavelina oblonga* (Tunicata, Ascidiacea) in Brazil: Evidence for its human-mediated transportation? *Aquatic Invasions* (2012) Volume 7, Issue 3: 419–424

Rym Zakhama-Sraieb, Yassine Ramzi Sghaier and Faouzia Charfi-Cheikhrouha (2009) On the occurrence of *Bursatella leachii* De Blainville, 1817 and *Pinctada radiata* (Leach, 1814) in the Ghar El Melh lagoon (NE Tunisia). *Aquatic Invasions* (2009) Volume 4, Issue 2: 381-383

Sabela Lois (2010) New records of *Corbicula fluminea* (Müller, 1774) in Galicia (Northwest of the Iberian Peninsula): Mero, Sil and Deva rivers (pp S17-S20) *Aquatic Invasions* 5(Suppl. 1)

Sajmir Beqiraj and Lefter Kashta (2010) The establishment of blue crab *Callinectes sapidus* Rathbun, 1896 in the Lagoon of Patok, Albania (south-east Adriatic Sea). *Aquatic Invasions* (2010) Volume 5, Issue 2: 219-221

Sammy De Grave, Rachel Einav and Bella S. Galil, (2012) Recent records of the Indo-Pacific species, *Lucifer hansenii* Nobili, 1905 (Crustacea; Decapoda; Luciferidae) from the Mediterranean coast of Israel. *BioInvasions Records* (2012) Volume 1, Issue 2: 105–108

Samuel B. Collin, Judith A. Oakley, Jack Sewell and John D. D. Bishop (2010) Widespread occurrence of the non-indigenous ascidian *Corella eumyota* Traustedt, 1882 on the shores of Plymouth Sound and Estuaries Special Area of Conservation, UK. *Aquatic Invasions* (2010) Volume 5, Issue 2: 175-179

Sander Wijnhoven and Angela Dekker (2010) Records of a new alien polychaete worm species, *Marphysa sanguinea* (Montagu, 1815) (Eunicidae) in the Eastern Scheldt, the Netherlands. *Aquatic Invasions* (2010) Volume 5, Issue 4: 431–436

Sandra M. Fiori, Pía Simonetti and Eder P. Dos Santos (2012) First record of Atlantic mud piddock, *Barnea* (*Anchomasa*) *truncata* (Bivalvia, Pholadidae) in Argentina. *Aquatic Invasions* (2012) Volume 7, Issue 2: 283–286

Sarah Cohen, Linda McCann, Tammy Davis, Linda Shaw and Gregory Ruiz (2011) Discovery and significance of the colonial tunicate *Didemnum vexillum* in Alaska. *Aquatic Invasions* (2011) Volume 6, Issue 3: 263–271

Schembri, P., (2008) Occurrence of the Alien Sea Hare *Aplysia dactylomela* Rang, 1828 (Opisthobranchia, Aplysiidae) In Malta. *Mediterranean Marine Science, North America*, 9, Dec. 2008.

Sciberras, M., Schembri, P., (2007) A Critical Review Of Records Of Alien Marine Species From The Maltese Islands And Surrounding Waters (Central Mediterranean). *Mediterranean Marine Science, North America*, 8, Jun. 2007.

Scordella, G., Lumare, F., Conides, A., Papaconstantinou, C., (2003) First Occurrence of the Tilapia *Oreochromis niloticus niloticus* (Linnaeus, 1758) In Lesina Lagoon (Eastern Italian Coast). *Mediterranean Marine Science, North America*, 4, Jun. 2003.

Selahattin Ünsal Karhan, Mehmet Baki Yokeş, Paul F. Clark and Bella S. Galil, (2013) First Mediterranean record of *Actaea savignii* (H. Milne Edwards, 1834) (Crustacea: Decapoda: Brachyura: Xanthidae), an additional Erythraean alien crab. *BioInvasions Records* (2013) Volume 2, Issue 2: 145–148

Selander, E., Møller, L., Sundberg, P., Tiselius, P., (2010) Parasitic Anemone Infects The Invasive Ctenophore *Mnemiopsis leidyi* In The North East Atlantic. *Biological Invasions*, 2010, 12(5), Pp. 1003-1009.

Sezginer Tuncer and Sabri Bilgin (2008) First record of *Callinectes sapidus* Rathbun, 1896 (Crustacea: Decapoda: Brachyura) in the Dardanelles, Canakkale, Turkey. *Aquatic Invasions* (2008) Volume 3, Issue 4: 469

Sfriso, A., Buosi, A., Sfriso, A., (2013) On The Occurrence Of *Uronema marinum* Womersley (Chaetophorales, Chlorophyta) In The North-Western Lagoons Of The Adriatic Sea, Mediterranean Sea (Italy). *Mediterranean Marine Science, North America*, 15, Sep. 2013.

- Sghaier, Y., Zakhama-Sraieb, R., Charfi-Cheikhrouha, F., (2011) On The Distribution Of *Percnon gibbesi* (H. Milne Edwards, 1853) (Crustacea, Decapoda, Plagusidae) Along The Tunisian Coast. Mediterranean Marine Science, North America, 12, Jan. 2011.
- Sherwood, A. R., Carlile, A. L., (2012) *Schimmelmanna* (Rhodophyta: Acrosymphytales): First Report Of The Genus In Hawai'i. Pacific Science, 2012, 66(4), Pp. 529-533.
- Shiganova, T., Christou, E., Siokou, I., (2007) First Recording Of The Non-Native Species *Beroe ovata* Mayer 1912 In The Aegean Sea. Mediterranean Marine Science, North America, 8, Jun. 2007.
- Simboura, N., (2008) First Occurrence Of The Indo-Pacific Polychaete Species *Glycinde bonhourei* Gravier, 1904 In The Hellenic Seas (Northern Evvoikos Gulf). Mediterranean Marine Science, North America, 9, May. 2008
- Simboura, N., (2011) An Overlooked Alien Species Present On The Coasts Of Greece (Eastern Mediterranean): The Polychaete *Polycirrus twisti* Potts (Polychaeta: Terebellidae). Mediterranean Marine Science, North America, 12, Apr. 2011.
- Simboura, N., Kurt Sahin, G., Panagoulia, A., Katsiaras, N., (2010) Four New Alien Species On The Coasts Of Greece (Eastern Mediterranean). Mediterranean Marine Science, North America, 11, Nov. 2010.
- Simboura, N., Sigala, K., Voutsinas, E., Kalkan, E., (2008) First Occurrence Of The Invasive Alien Species *Polydora cornuta* Bosc, 1802 (Polychaeta: Spionidae) On The Coast Of Greece (Elefsis Bay; Aegean Sea). Mediterranean Marine Science, North America, 9, Dec. 2008.
- Simonovic, P., Tošić, A., Vassilev, M., Apostolou, A., Mrdak, D., Ristovska, M., Kostov, V., Nikolić, V., Škraba, D., Vilizzi, L., Copp, G., (2013) Risk Assessment Of Non-Native Fishes In The Balkans Region Using Fisk, The Invasiveness Screening Tool For Non-Native Freshwater Fishes. Mediterranean Marine Science, North America, 14, Jun. 2013.
- Skinner, L. F., G. C. M. Oliveira, et al. (2013). First record of the Ascidiacea *Rhodosoma turcicum* in the south-west Atlantic Ocean. Marine Biodiversity Records(e37).
- Smale D.A., Childs S., (2012) The Occurrence Of A Widespread Marine Invader, *Didemnum perlucidum* (Tunicata, Ascidiacea) In Western Australia. Biological Invasions, 2012, 14(7), Pp.1325-1330.
- Sonnewald, M. and R. Janssen (2012). Recent spreading of *Xandarovula patula* (Mollusca: Gastropoda: Ovulidae) towards the central North Sea suggests a link to rising water temperatures. Marine Biodiversity Records(e58).
- Stefan Nehring and Uilke van der Meer (2010) First record of a fertilized female blue crab, *Callinectes sapidus* Rathbun, 1896 (Crustacea: Decapoda: Brachyura), from the German Wadden Sea and subsequent secondary prevention measures. Aquatic Invasions (2010) Volume 5, Issue 2: 215-218
- Stefan Nehring, Christian Boestfleisch, Anne Buhmann and Jutta Papenbrock, (2012) The North American toxic fungal pathogen G3 *Claviceps purpurea* (Fries) Tulasne is established in the German Wadden Sea (pp 5-10) BioInvasions Records (2012) Volume 1, Issue 1: 5–10

Stefanos Kalogirou and Maria Corsini-Foka, (2012) First record of the Indo-Pacific *Champsodon nudivittis* (Ogilby, 1895) (Perciformes, Champsodontidae) in the Aegean waters (eastern Mediterranean Sea). *BioInvasions Records* (2012) Volume 1, Issue 3: 229–233

Stelios Katsanevakis (2011) Rapid assessment of the marine alien megabiota in the shallow coastal waters of the Greek islands, Paros and Antiparos, Aegean Sea (pp S133-S137) Volume 6, Supplement 1

Stephan G. Bullard, Mary R. Carman, Rosana M. Rocha, Jennifer A. Dijkstra and Anne M. Goodwin (2011) Abundance and diversity of ascidians in the southern Gulf of Chiriquí, Pacific Panama. *Aquatic Invasions* (2011) Volume 6, Issue 4: 381–390

Stéphane Sartoretto, Jean-Georges Harmelin, Frédéric Bachet, Nejla Bejaoui, Olivier Lebrun and Helmut Zibrowius (2008) The alien coral *Oculina patagonica* De Angelis, 1908 (Cnidaria, Scleractinia) in Algeria and Tunisia. *Aquatic Invasions* (2008) Volume 3, Issue 2: 173-180

Stephen J. Beatty, David L. Morgan, James Keleher, Mark G. Allen and Gavin A. Sarre (2013) The tropical South American cichlid, *Geophagus brasiliensis* in Mediterranean climatic south-western Australia. *Aquatic Invasions* (2013) Volume 8, Issue 1: 21–36

Streftaris, N., Zenetos, A., 2006. Alien Marine Species In The Mediterranean - The 100 'Worst Invasives' And Their Impact. *Mediterranean Marine Science*, North America, 7, Jun. 2006.

Suchana Chavanich, Voranop Viyakarn, Somkiat Piyatiratitivorakul, Khanit Suwanborirux and Somchai Bussarawit (2009) Two introduced tunicate species, *Ecteinascidia thurstoni* Herdman, 1891 and *Clavelina cyclus* Tokioka & Nishikawa, 1975, in Thailand. *Aquatic Invasions* (2009) Volume 4, Issue 2: 349-351

Tarja Katajisto, Jonne Kotta, Maiju Lehtiniemi, Stanislaw A. Malavin and Vadim E. Panov, (2013) *Palaemon elegans* Rathke, 1837 (Caridea: Palaemonoidea: Palaemonidae) established in the Gulf of Finland. *BioInvasions Records* (2013) Volume 2, Issue 2: 125–132

Taskin, E., (2012) First Report Of The Alien Brown Alga *Scytosiphon dotyi* M.J. Wynne (Phaeophyceae, Scytosiphonaceae) In Turkey. *Mediterranean Marine Science*, North America, 13, Feb. 2012.

Taskin, E., 2013. First Report Of The North Atlantic Myrionematoid Brown Alga *Ulonema rhizophorum* foslie (Phaeophyceae, Chordariaceae) In The Mediterranean Sea. *Mediterranean Marine Science*, North America, 14, Mar. 2013.

Teresa Patricia Fera and Zen Faulkes (2011) Forecasting the distribution of Marmorkrebs, a parthenogenetic crayfish with high invasive potential, in Madagascar, Europe, and North America. *Aquatic Invasions* (2011) Volume 6, Issue 1: 55–67

Thessalou-Legaki, M., Aydogan, O., Bekas, P., Bilge, G., Boyaci, Y., Brunelli, E., Circosta, V., Crocetta, F., Durucan, F., Erdem, M., Ergolavou, A., Filiz, H., Fois, F., Gouva, E., Kapiris, K., Katsanevakis, S., Kljajic, Z., Konstantinidis, E., Konstantinou, G., Koutsogiannopoulos, D., Lamon, S., Macic, V., Mazzette, R., Meloni, D., Mureddu, A., Paschos, I., Perdikaris, C., Piras, F., Poursanidis, D., Ramos-Espla, A., Rosso, A., Sordino, P., Sperone, E., Sterioti, A., Taskin, E., Toscano, F., Tripepi, S., Tsiakkiros, L., Zenetos, A., 2012. New Mediterranean Biodiversity Records (December 2012). *Mediterranean Marine Science*, North America, 13, Dec. 2012.

Thurid Otto and Dirk Brandis (2011) First evidence of *Eriocheir sinensis* reproduction from Schleswig—Holstein, Northern Germany, western Baltic Sea (pp S65-S69) Volume 6, Supplement 1

Timothy L. Fuller and Jeffery R. Hughey (2013) Molecular investigation of the invasive sponge *Hymeniacidon sinapium* (de Laubenfels, 1930) in Elkhorn Slough, California. Aquatic Invasions (2013) Volume 8, Issue 1: 59–66

Timothy M. Davidson, Valance E. F. Brenneis, Catherine de Rivera, Robyn Draheim and Graham E. Gillespie (2008) Northern range expansion and coastal occurrences of the New Zealand mud snail (*Potamopyrgus antipodarum* Gray, 1843) in the northeast Pacific. Aquatic Invasions (2008) Volume 3, Issue 3: 349-353

Timur Pavluk, Elena Pavluk and Ruben Rasines (2011) First record of the Asian leech *Barbronia weberi* (Blanchard, 1897) (Hirudinea: Arhynchobdellida: Erpobdelliformes: Salifidae) in the Iberian Peninsula (pp S61-S64) Volume 6, Supplement 1

Ton van Haaren and Jan Soors (2009) *Sinelobus stanfordi* (Richardson, 1901): A new crustacean invader in Europe. Aquatic Invasions (2009) Volume 4, Issue 4: 703-711

Torres, A., Dos Santos, A., Cuesta, J., Carbonell, A., Massuti, E., Alemany, F., Reglero, P., (2012) First Record Of *Palaemon macrodactylus* Rathbun, 1902 (Decapoda, Palaemonidae) In The Western Mediterranean. Mediterranean Marine Science, North America, 13, Oct. 2012.

Triantaphyllou, M., Koukousioura, O., Dimiza, M., (2009) The Presence Of The Indo-Pacific Symbiont-Bearing Foraminifer *Amphistegina lobifera* In Greek Coastal Ecosystems (Aegean Sea, Eastern Mediterranean). Mediterranean Marine Science, North America, 10, Dec. 2009.

Tsiamis, K., Montesanto, B., Panayotidis, P., Katsaros, C., Verlaque, M., (2010) Updated Records And Range Expansion Of Alien Marine Macrophytes In Greece (2009). Mediterranean Marine Science, North America, 11, Feb. 2010.

Tsuda, R. T., P. S. Vroom, et al. (2012). New marine algal records from the Polynesia - Micronesia region of the Pacific Ocean. Marine Biodiversity Records(e18).

Turan, C., Yaglioglu, D., (2011) First Record Of The Spiny Blaasop *Tylerius spinosissimus* (Regan, 1908) (Tetraodontidae) From The Turkish Coasts. Mediterranean Marine Science, North America, 12, Apr. 2011.

Turan, C., Yaglioglu, D., Erguden, D., Gurlek, M., Sonmez, B., (2010) First Record Of The Broad-Banded Cardinal Fish *Apogon fasciatus* (White, 1790) From Turkey. Mediterranean Marine Science, North America, 11, Nov. 2010.

Ulrike Schückel, Sabine Schückel, Melanie Beck and Gerd Liebezeit (2010) New range expansion of *Caprella mutica* Schurin, 1935 (Malacostraca: Caprellidae) to the German coast, North Sea (pp S85-S89) Aquatic Invasions 5(Suppl. 1)

Vásquez-Yeomans, L., Carrillo, L., Morales, S., Malca, E., Morris, J. A., Jr., Schultz, T., Lamkin, J.T., (2011) First Larval Record Of *Pterois volitans* (Pisces: Scorpaenidae) Collected From The Ichthyoplankton In The Atlantic. Biological Invasions, 2011, 13(12), Pp. 2635-2640.



- Vera Gonçalves, Rui Rebelo and Francesca Gherardi (2013) Fouling of invasive red swamp crayfish, *Procambarus clarkii* (Girard, 1852) by the zebra mussel, *Dreissena polymorpha* (Pallas, 1771) in Lake Trasimeno, Italy (pp 117-120) Volume 8, Issue 1
- Verlaque M., Afonso-Carrillo J., Candelaria Gil-Rodríguez M., Durand C., Boudouresque C.F., Le Parco Y., (2004) Blitzkrieg In A Marine Invasion: *Caulerpa racemosa* var. *cylindracea* (Bryopsidales, Chlorophyta) Reaches The Canary Islands (North-East Atlantic) Biological Invasions, 6(3), 2004, Pp. 269-281
- Verónica L. Fuentes, Dacha Atienza, Josep-Maria Gili and Jennifer E. Purcell (2009) First records of *Mnemiopsis leidyi* A. Agassiz 1865 off the NW Mediterranean coast of Spain. Aquatic Invasions (2009) Volume 4, Issue 4: 671-674
- Vesselina Mihneva and Kremena Stefanova, (2013) The non-native copepod *Oithona davisae* (Ferrari F.D. and Orsi, 1984) in the Western Black Sea: seasonal and annual abundance variability. BioInvasions Records (2013) Volume 2, Issue 2: 119–124
- Viktor Rizevsky, Andrei Leschenko, Inna Ermolaeva and Michail Pluta, (2013) First record of the Ponto-Caspian stellate tadpole-goby *Benthophilus stellatus* (Sauvage, 1874) from the Dnieper River, Belarus. BioInvasions Records (2013) Volume 2, Issue 2: 159–161
- Vitaliy P. Semenchenko, Viktor K. Rizevsky, Sergey E. Mastitsky, Vasiliy V. Vezhnovets, Mikhail V. Pluta, Vladimir I. Razlutsky and Tatiana Laenko (2009) Checklist of aquatic alien species established in large river basins of Belarus. Aquatic Invasions (2009) Volume 4, Issue 2: 337-347
- Vitaliy Semenchenko and Vasiliy Vezhnovetz (2008) Two new invasive Ponto-Caspian amphipods reached the Pripyat River, Belarus. Aquatic Invasions (2008) Volume 3, Issue 4: 445-447
- Volodymyr Yuryshynets and Natalya Krasutska (2009) Records of the parasitic worm *Aspidogaster conchicola* (Baer, 1827) in the Chinese pond mussel *Sinanodonta woodiana* (Lea, 1834) in Poland and Ukraine. Aquatic Invasions (2009) Volume 4, Issue 3: 491-494
- Wanless R.M., Scott S., Sauer W.H.H., Andrew T.G., Glass J.P., Godfrey B., Griffiths C., Yeld E., (2010) Semi-Submersible Rigs: A Vector Transporting Entire Marine Communities Around The World. Biological Invasions, 2010, 12(8), Pp. 2573-2583.
- Wasson, B. and J. Nunez (2013) The first records of *Rullierinereis ancornunezi* (Polychaeta: Nereididae) from British waters. Marine Biodiversity Records(e26).
- Watanabe, S., Scheibling, R.E., Metaxas, A., (2010) Contrasting Patterns Of Spread In Interacting Invasive Species: *Membranipora membranacea* and *Codium fragile* Off Nova Scotia. Biological Invasions, 2010, 12(7), Pp. 2329-2342
- Wrangle A.-L., Valero J., Harkestad L.S., Strand O., Lindegarth S., Christensen H.T., Dolmer P., Kristensen P.S., Mortensen S., (2010) Massive Settlements Of The Pacific Oyster, *Crassostrea gigas*, In Scandinavia. Biological Invasions, 2010, 12(5), Pp. 1145-1152.
- Yasar Özvarol, Mehmet Gökoglu and Gürkan Salih Karabacak (2010) First report of *Hypselodoris infucata* (Rüppell & Leuckart, 1830) – (Mollusca, Opisthobrancia, Chromodorididae) in the Gulf of Antalya, Levantine coast of Turkey, Eastern Mediterranean (pp S109-S111) Aquatic Invasions 5(Suppl. 1)

- Yoshiaki Kai and D. Menno Soes (2009) A record of *Sebastes schlegelii* Hilgendorf, 1880 from Dutch coastal waters. *Aquatic Invasions* (2009) Volume 4, Issue 2: 417-419
- Yulang Kam, Carmen Schlöder, Dominique G. Roche and Mark E. Torchin (2011) The Iraqi crab, *Elamenopsis kempfi* in the Panama Canal: distribution, abundance and interactions with the exotic North American crab, *Rhithropanopeus harrisi*. *Aquatic Invasions* (2011) Volume 6, Issue 3: 339–345
- Yuriy Kvach (2009) First report of *Saduria* (Mesidotea) *entomon* (Linnaeus, 1758) (Isopoda: Chaetiliidae) in the Black Sea. *Aquatic Invasions* (2009) Volume 4, Issue 2: 393-395
- Yuriy Kvach, (2012) First record of the Chinese sleeper *Perccottus glenii* Dybowski, 1877 in the Ukrainian part of the Danube delta. *BioInvasions Records* (2012) Volume 1, Issue 1: 25–28
- Yves de Lafontaine, Jean-Marie Sévigny, Richard Calvé, Guy Verreault, Simon-Pierre Despatie and Éloïse Veilleux (2008) Chinese mitten crabs (*Eriocheir sinensis*) in the St. Lawrence River and Estuary, Canada: new records and risk of invasion. *Aquatic Invasions* (2008) Volume 3, Issue 2: 153-163
- Zaouali, J., Ben Souissi, J., M. Rifi, M. And D'Udekem D'Acoz, C., (2013) First Occurrence Of A Hymenosomatid Crab *Elamena mathoei* (Desmarest, 1823) (Crustacea: Decapoda: Brachyura) In The Mediterranean Sea. *Mediterranean Marine Science*, 14(2), 2013, Pp. 278-281.
- Zenetos, A., Cinar, M., Pancucci-Papadopoulou, M., Harmelin, J., Furnari, G., Andaloro, F., Bellou, N., Streftaris, N., Zibrowius, H., (2005) Annotated List Of Marine Alien Species In The Mediterranean With Records Of The Worst Invasive Species. *Mediterranean Marine Science*, North America, 6, Dec. 2005
- Zenetos, A., Gofas, S., Verlaque, M., Cinar, M., Garcia Raso, J., Bianchi, C., Morri, C., Azzurro, E., Bilecenoglu, M., Froglija, C., Siokou, I., Violanti, D., Sfriso, A., San Martin, G., Giangrande, A., Katagan, T., Ballesteros, E., Ramos-Espla, A., Mastrototaro, F., Ocana, O., Zingone, A., Gambi, M., Streftaris, N., (2010) Alien Species In The Mediterranean Sea By 2010. A Contribution To The Application Of European Union'S Marine Strategy Framework Directive (Msf). Part I. Spatial Distribution. *Mediterranean Marine Science*, North America, 11, Nov. 2010.
- Zenetos, A., Katsanevakis, S., Poursanidis, D., Crocetta, F., Damalas, D., Apostolopoulos, G., Gravili, C., Vardala-Theodorou, E., Malaquias, M., (2011) Marine Alien Species In Greek Seas: Additions And Amendments By 2010. *Mediterranean Marine Science*, North America, 12, Mar. 2011.
- Zenetos, A., Meric, E., Verlaque, M., Galli, P., Boudouresque, C., Giangrande, A., Cinar, M., Bilecenoglu, M., (2008) Additions To The Annotated List Of Marine Alien Biota In The Mediterranean With Special Emphasis On Foraminifera And Parasites. *Mediterranean Marine Science*, North America, 9, May. 2008
- Zenetos, A., Ovalis, P., Eviker, D., (2010) On Some Indo-Pacific Boring Endolithic Bivalvia Species Introduced Into The Mediterranean Sea With Their Host – Spread Of *Sphenia rueppelli* A. Adams, 1850. *Mediterranean Marine Science*, North America, 11, Jun. 2010
- Zenetos, A., Gofas, S., Morri, C., Rosso, A., Violanti, D., Garcia Raso, J., Cinar, M., Almogi-Labin, A., Ates, A., Azzurro, E., Ballesteros, E., Bianchi, C., Bilecenoglu, M., Gambi, M., Giangrande, A., Gravili, C., Hyams-Kaphzan, O., Krachle, P., Katsanevakis, S., Lipej, L., Mastrototaro, F., Minuer, F., Pancucci-Papadopoulou, M., Ramos Espla, A., Salas, C., San Martin, G., Sfriso, A., Streftaris, N., Verlaque, E., M. (2012) Alien species in the contribution to the application of European Union's Marine Strategy

Framework Directive (MSFD). Part 2. Introduction trends and pathways. Mediterranean Marine Science, North America, 13, dec. 2012

Zogaris, S., Apostolou, A., (2011) First Record Of Pontian Monkey Goby, *Neogobius fluviatilis* (Pallas, 1814) In The Evros River (Greece); Is It An Alien Species?. Mediterranean Marine Science, North America, 12, Nov. 2011.