



CONVENTION ON WETLANDS  
CONVENTION SUR LES ZONES HUMIDES  
CONVENCIÓN SOBRE LOS HUMEDALES  
(Ramsar, Iran, 1971)

# **Working session 3: Invasive species and wetlands**

## **Guide to available guidance**



**2013 Asia Regional Workshop  
on Scientific and Technical Support for  
Implementation of the Ramsar Convention**  
7-11 October 2013, Changwon, Republic of Korea

# Invasive Alien Species



- **Alien species:** introduced, non-indigenous, foreign, exotic; a species occurring outside of its natural range and dispersal potential (i.e., outside the range it occupies naturally or could not occupy without direct or indirect introduction or care by humans)
- **Invasive species:** an alien species which becomes established in natural or semi-natural ecosystems or habitats, is an agent of change, and threatens native biodiversity (species, populations and/or ecosystems).



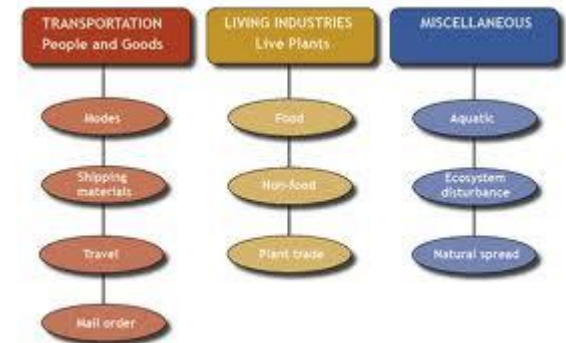
Adapted from COP7, Doc.24

- Keeping IASs out of ecosystems in the first place.
- Most cost-effective way to deal with introduced species.
- The ability of new species to invade can be reduced by monitoring common invasion pathways and the ecosystem itself.



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- Total elimination of an IAS from an ecosystem.
- Discover IAS early and eradicate quickly when population levels are low.
- Even if total elimination is impossible, early intervention can keep the population sizes of IAS at acceptably low levels.



Limiting the population size/coverage/impact of the IAS through one of the following methods:

- **Mechanical Control:** removing, destroying, trapping, catching or otherwise physically removing IASs from the ecosystem.
- **Chemical Control:** using pesticides, herbicides and poisons.
- **Biological Control:** introducing a range of parasites, pathogens and predators.
- **Ecosystem Manipulation:** includes watershed management, water management, and pollution control.
- **Integrated Management:** using some or all of the above in strategic combinations.



# Discussion



- What guidance has your wetland managers, communities and/or policy-makers found to be helpful and effective with respect to IAS prevention, eradication, control, or management?
- What case studies demonstrate the effective application of such guidance?
- Where are the gaps in guidance for your wetland managers, communities and policy-makers?

## The Ramsar Convention on Wetlands

The Convention on Wetlands of International Importance, called the Ramsar Convention, is an intergovernmental treaty that provides the framework for national action and international cooperation for the conservation and wise use of wetlands and their resources.

The Ramsar Convention is the only global environmental treaty that deals with a particular ecosystem. The treaty was adopted in the Iranian city of Ramsar in 1971 and the Convention's member countries cover all geographic regions of the planet.

### The Ramsar mission

The Convention's mission is "the conservation and wise use of all wetlands through local and national actions and international cooperation, as a contribution towards achieving sustainable development throughout the world".

The Convention uses a broad definition of the types of wetlands covered in its mission, including lakes and rivers, swamps and marshes, wet grasslands and peatlands, oases, estuaries, deltas and tidal flats, near-shore marine areas, mangroves and coral reefs, and human-made sites such as fish ponds, rice paddies, reservoirs, and salt pans.

### The Wise Use concept

At the centre of the Ramsar philosophy is the "wise use" concept. The wise use of wetlands is defined as "the maintenance of their ecological character, achieved through the implementation of ecosystem approaches, within the context of sustainable development". "Wise use" therefore has at its heart the conservation and sustainable use of wetlands and their resources, for the benefit of humankind.

» [Read the Convention Text](#)

### Ramsar Secretariat

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Map: [click here](#)

Ramsar Forum: [subscribe](#)

### Credits



Renovation of the  
Ramsar Web site has  
been supported by the  
**DANONE** [Danone Group](#).



## ramsar-forum -- The Ramsar Forum

### About ramsar- forum

View this page in English (USA) ▾

Welcome to the Ramsar Forum, the public electronic mailing list of the Convention on Wetlands (Ramsar, Iran, 1971), which was begun in 1997 and is maintained by the Ramsar Convention Secretariat in Gland, Switzerland. There are presently more than 1,000 Forum members.

The purpose of the Ramsar Forum mailing list is to provide an e-mail mechanism for the exchange of news, announcements, and requests for information and advice on wetland- and Ramsar-related issues between any of the Forum's subscribers and all the others. The Forum is open to all interested persons and is unmoderated, so that all posted messages go directly to all subscribers. Therefore, any facts or opinions contained in any posted messages should not be seen as representing the opinions of the Ramsar Secretariat or the Contracting Parties or as facts whose accuracy is guaranteed by them.

To see the collection of prior postings to the list, visit the [ramsar-forum Archives](#). *(The current archive is only available to the list members.)*

### Using ramsar-forum

To post a message to all the list members, send email to [ramsar-forum@lists.ramsar.org](mailto:ramsar-forum@lists.ramsar.org).

You can subscribe to the list, or change your existing subscription, in the sections below.

### Subscribing to ramsar-forum

Subscribe to ramsar-forum by filling out the following form. This is a closed list, which means your subscription will be held for approval. You will be notified of the list moderator's decision by email. This is also a hidden list, which means that the list of members is available only to the list administrator.

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## Request for examples of eradication practices for invasive *Prosopis juliflora* and *Tilapia mossambica*

■ Gardner, Royal

To:  ramsar-forum@lists.ramsar.org

Cc:  Gardner, Royal

Wednesday, October 09, 2013 7:16 PM

Dear colleagues,

Greetings from Changwon, Korea, where we are holding the 2013 Asia Regional Workshop on Scientific and Technical Support for the Implementation of the Ramsar Convention!

One of the issues we have discussed is invasive species and wetlands. Our colleagues from Oman are very keen to know more about effective eradication practices and measures that can be applied for two species— *Prosopis juliflora* and *Tilapia mossambica*—that are found in their Ramsar site, the Qurm Nature Reserve.

We would greatly appreciate your feedback on this subject so that we can share it with other workshop participants (and to demonstrate how the Ramsar Forum operates).

Best wishes,

Roy Gardner

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**AQUACULTURE SECTION**

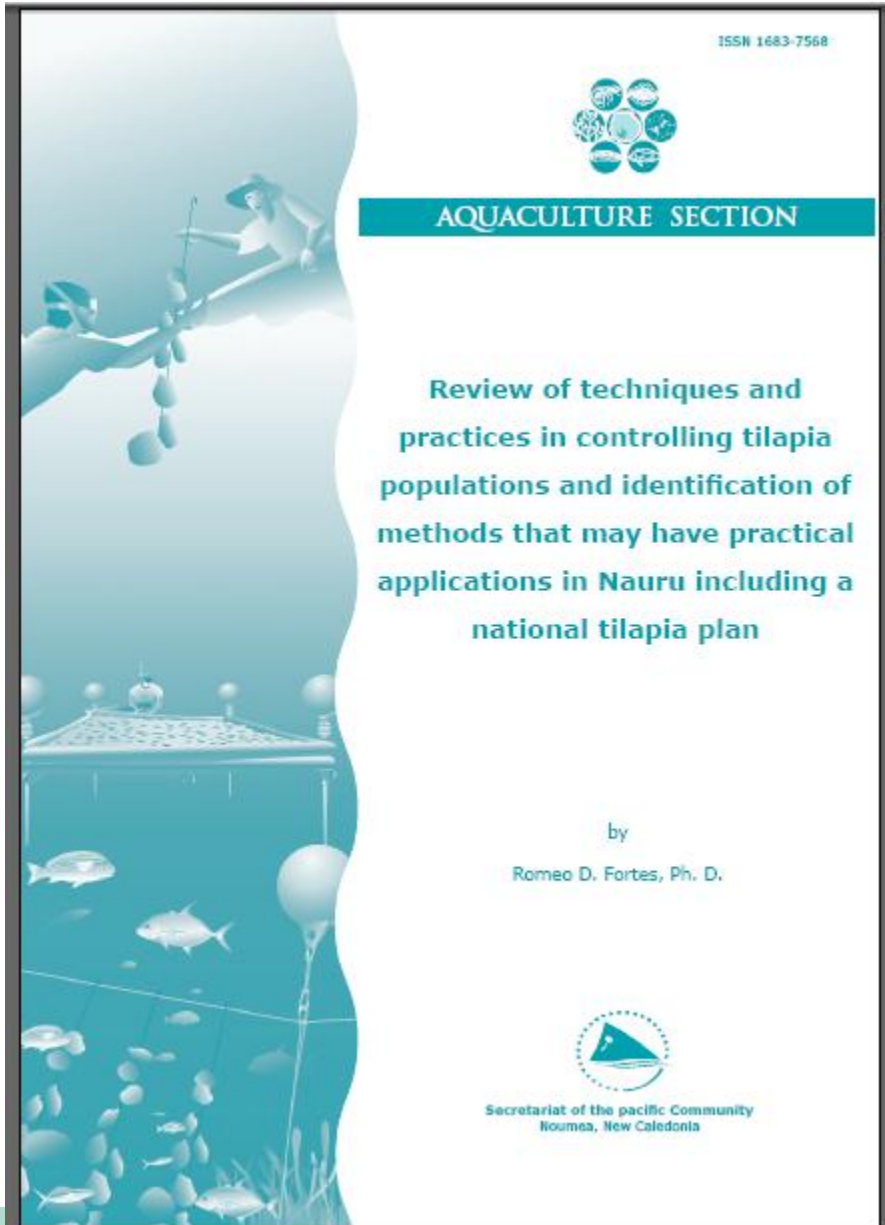
**Review of techniques and practices in controlling tilapia populations and identification of methods that may have practical applications in Nauru including a national tilapia plan**

by

Romeo D. Fortes, Ph. D.



Secretariat of the Pacific Community  
Noumea, New Caledonia



## RE: [Ramsar Forum] Request for examples of eradication practices for invasive *Prosopis juliflora* and *Tilapia mossambica*

Shyama Pagad [s.pagad@auckland.ac.nz]

To: [Gardner, Royal](mailto:Gardner, Royal); [ramsar-forum@lists.ramsar.org](mailto:ramsar-forum@lists.ramsar.org)

Wednesday, October 09, 2013 8:44

Dear Royal and all,

I am writing from the IUCN SSC Invasive Species Specialist Group, our group have collated and disseminated management options to prevent the introduction and spread of invasive species.

The Global Invasive Species Database features profiles of *Prosopis* spp. (generic level) as well as other *Prosopis* species and *Tilapia*. The information includes ecology of the species, global distribution, management information, impacts as well as a reference list. Here are the links

*Prosopis*

<http://www.issg.org/database/species/search.asp?sts=sss&st=sss&fr=1&x=-665&y=-119&sn=prosopis&rn=&hci=-1&ei=-1&lang=EN>

[http://www.issg.org/database/species/management\\_info.asp?si=433&fr=1&sts=sss&lang=EN](http://www.issg.org/database/species/management_info.asp?si=433&fr=1&sts=sss&lang=EN)

*Tilapia*

<http://www.issg.org/database/species/ecology.asp?si=131&fr=1&sts=sss&lang=EN>

[http://www.issg.org/database/species/management\\_info.asp?si=131&fr=1&sts=sss&lang=EN](http://www.issg.org/database/species/management_info.asp?si=131&fr=1&sts=sss&lang=EN)

These profiles are a bit dated. For *Prosopis* the following links will be helpful. *Prosopis* is recognized as a weed of national significance in Australia and manuals and strategies for management of these species have been produced

<http://www.weeds.org.au/WoNS/mesquite/>

[http://www.weeds.org.au/WoNS/mesquite/docs/WEEDS-Mesquite-07-FINAL\(18Mar13\).pdf](http://www.weeds.org.au/WoNS/mesquite/docs/WEEDS-Mesquite-07-FINAL(18Mar13).pdf)

We are also planning to propose to the Ramsar Secretariat to undertake a review of the impacts of invasive species on Ramsar sites and other wetlands of importance, identify the most harmful of the invasive species and compile management plans for them

Kind regards

Shyama

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Shyama Pagad  
Program Manager

- The Ramsar community is available to assist.
- Sign up for the Ramsar Forum!
- Stay connected to the STRP's work through the STRP web platform.

# STRP Web Portal



**STRP** The Scientific and Technical Review Panel  
of the Ramsar Convention on Wetlands

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Royal Gardner

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## STRP Workspace

Welcome to the STRP Workspace! Here, you will find a number of Forums, listed by Category. There is a General Matters Category, dedicated to general announcements, and Categories for each of the themes and sub-themes in the STRP Work Plan. Each Category contains Forums, Discussions and a Forum Library of files/attachments that were added to Discussions or directly uploaded to a Forum.

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### General Matters (GM)

| Forum name                                       | Discussions | Last post                                     |
|--|-------------|---|
| <a href="#">GM: Announcements &amp; Requests</a> | 6           | by STRP Site Administrator<br>Tuesday 13:38   |
| <a href="#">GM: STRP &amp; Ramsar Meetings</a>   | 3           | by STRP Site Administrator<br>August 09, 2013 |
| <a href="#">GM: Topics of Regional Interest</a>  | 1           | by STRP Site Administrator<br>April 26, 2013  |

### Useful Resources

- [Work Plan \(2009-2012\)](#)
- [STRP \*modus operandi\* \(2013-2015\)](#)
- [List of STRP Members](#)
- [List of STRP National Focal Points](#)
- [Ramsar Website](#)

### Recent Posts

- [STRP Newsletter](#)
- [Task No.10 \(2013-15\): Invasive species and wetlands—guide to available guidance](#)
- [Task No.13 \(2013-15\): Engagement with IPBES](#)
- [Belmont Forum project: Catalyzing action towards sustainability of deltaic systems with an integrated modelling framework for risk assessment \(DELTAS\).](#)
- [Task No. 14 \(2013-15\): Ramsar water and](#)

Thank you for your contributions!

