

Pet to Pest



Undocumented Releases



















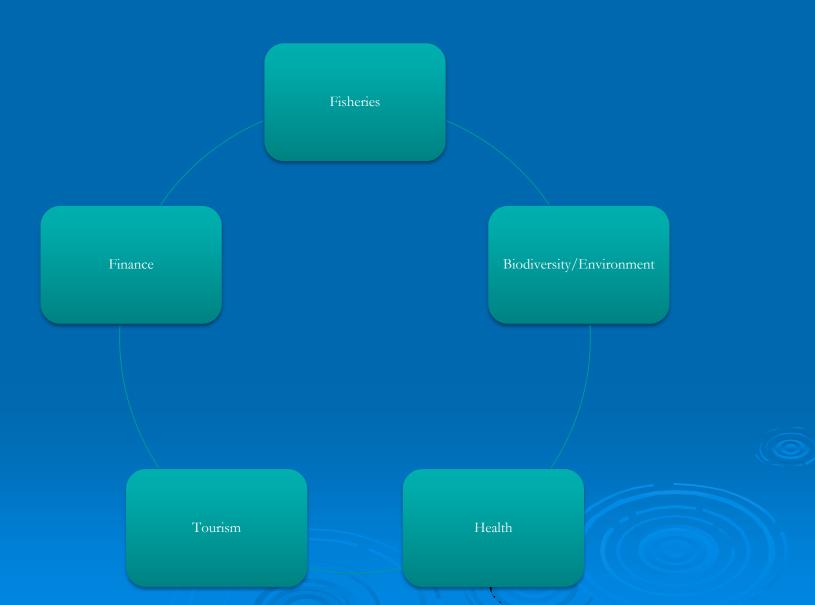


Future

Potential future range of lionfish based on the lethal thermal minimum of 10°C.



Whose Problem? Who Leads?



Implementation Inertia





Lionfish: State of Science

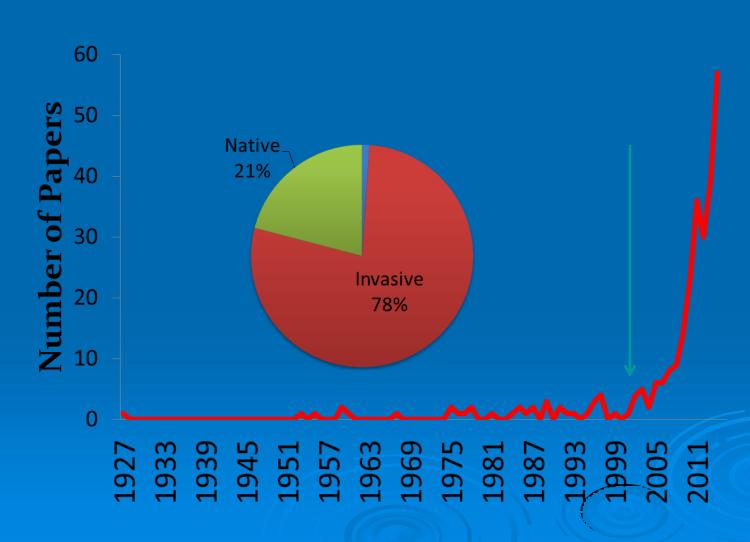
Literature database on the lionfish web portal (http://lionfish.gcfi.org)

> 300 lionfish papers in database





Lionfish papers to date



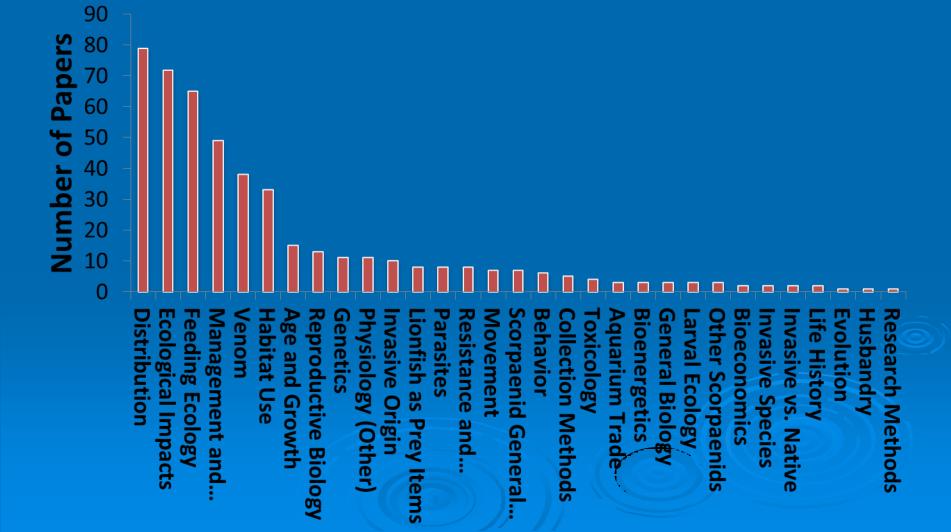


Who's Who In Lionfish Research





Research topics



Current State

> Some countries have reported a decline in numbers, especially in managed areas (local areas)

> Population explosion is slowing down

Problem still exists, and numbers still require significant reduction

Passive Capture (UWI-CMS)

	Discovery Bay	Oracabessa
# of Lionfish Caught	50	625
# of By-catch	529	631
# of Retrievals	160	178
Avg. Soak Time (days)	7	3
Most Lionfish		40 (Breadfruit &
caught (Bait	8 (Breadfruit)	Pickled
used)		Mackerel)
Avg. Depth	20m	90m ₂₁

Passive Capture Mechanism

Experimental phase: BAIT STUDY

- Cycle 1- completed (Sept Oct 2012)
- Bait that caught lionfish:
 - Live lionfish
 - Orange
- Cycle 2- completed
- Cycle 3 completed



UWI MSc Course

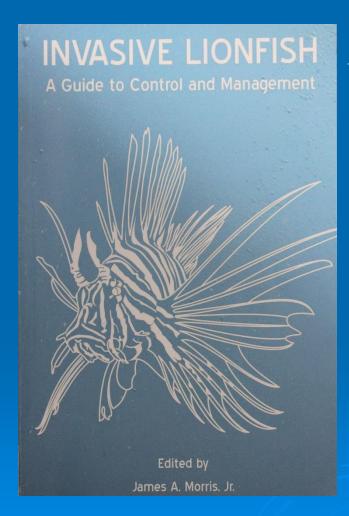
Title: Marine Invasive Alien Species in Tropical and Temperate Climates (UWI/SUNY)

> Students from both climatic regions taught together in both regions – Field Intensive

> Case Study driven = Management and Policy

> Creating new Researchers in MÍAS

Regional Lionfish Manual



Authors:

- Dr. James Morris (NOAA)
- □ Mr. Lad Akins (REEF)
- Dr. Dayne Buddo (UWI)
- Dr. Stephanie Green (SFU)
- Mr. Ricardo Lozano (CONANP)
- □ Link: <u>www.gcfi.org</u>

NOAA, REEF, ICRI, UNEP-CEP, CAR-SPAW-RAC, GCFI

Lionfish Web Portal

Invasive Lionfish

What to Do if Stung













EDUCATION & OUTREACH

RESEARCH & MONITORING

CONTROL

MANAGEMENT

Search

RESEARCHERS DISSECT lionfish to see what they are eating, if they are reproducing, and how quickly they are growing. This information can help to understand the impacts of the invasion and how best to respond.





"The invasion of lionfish (Pterois miles and Pterois volitans) may prove to be one of

Boston

Timeline of the Lionfish Invasion (from USGS)

The Gulf and Caribbean Fisheries Institute

GCFI Symposia

- GCR Proceedings
- Tweetchat on Storify:
- Tweets on Storify:

GCFINET List

- · Press Release 24th Meeting of the Executive Committee of the Caribbean Fisheries Forum to
- CANARI Publications on

Citizen Science

- > Training and Public Awareness go a long way!
- UWI, REEF, NOAA and other organizations developed training programmes and implemented regionally

Citizen Science crucial to the success in this war!

All Hands on Deck

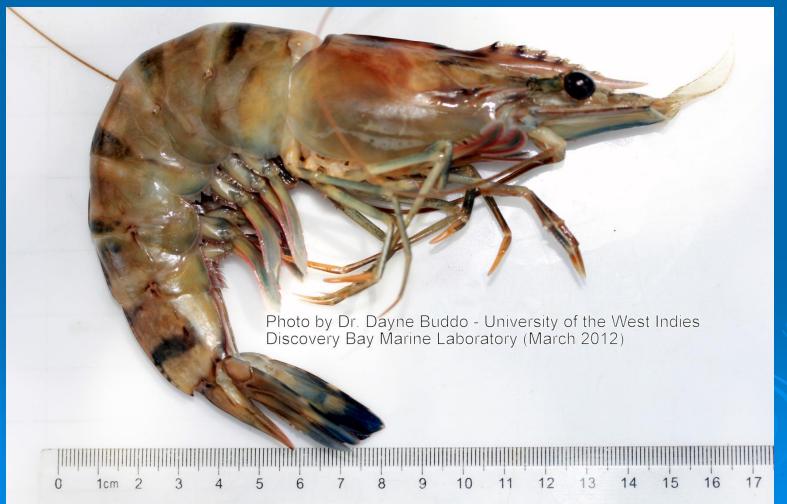




RAISING MONEY...USING LIONFISH



(NEW KID ON THE BLOCK) Asian Tiger Shrimp P. monodon





Steps to Deal with Invasive Species

PREVENTION

EARLY
DETECTION and
RAPID
RESPONSE

MANAGEMENT AND CONTROL

INCREASE IN EXPEDITURE

ECOLOGICAL IMPACT OF INVASIVE SPECIES ON THE ECOSYSTEM

