Targeting and Prioritisation

This presentation features the invasion heat maps for 40 of the ALERT Species from the RINSE Report 'Targeting and Prioritisation for INS in the RINSE Project Area' by B. Gallardo, A. Zieritz and D. C. Aldridge, Cambridge Environmental Consulting Ltd.

For more information on this study and to read the report visit the RINSE website here:

http://www.rinse-europe.eu/resources

This report reflects the author's views. The Interreg IVA 2 Seas Programme Authorities are not liable for any use that may be made of the information contained therein.







"Investing in your future"
Crossborder cooperation programme
2007-2013 Part-financed by the
European Union (European Regional
Development Fund)

Ammotragus Iervia

Anadara inaequivalvis

Anoploepis gracilipes

Aphanius dispar

Asparagopsis taxiformis

Asterias amurensis

Bison bison

Boiga irregularis

Callosciurus finlaysonii

Cercopagis pengoi

Chaetpgammarus warpachowski

Charybdis longicollis

Chionoecetes opilio

Barbary Sheep

Inequivalve Ark

Yellow Crazy Ant

Arabian Killifish

Limu Kohu

Japanese Seastar

American Bison

Brown Tree Snake

Finlayson's Squirrel

Fish-hook Waterflea

Ponto-Caspian Shrimp

Erythrean Swimming Crab

Queen Crab

Chrysemys picta

Clarias batrachus

Euglandina rosea

Fistularia commersonii

Gammarus fasciatus

Imperata cylindrica

Lantana camara

Lates niloticus

Melaleuca quinquenervia

Miconia calvescens

Mikania micrantha

Muntiacus muntjak

Neogobius gymnotrachelus

Obesogammarus obesus

Painted Turtle

Walking Catfish

Cannibal Snail

Blue-spotted Catfish

Freshwater Shrimp

Blady Grass

Ach Man

Nile Perch

Melaleuca

Bush Currant

American Rope

Indian Muntjac

Racer Goby

Ponto-Caspian Shrimp

Paralithodes camtschaticus

Pomacea canaliculata

Pontogammarus robustoides

Portunus pelagicus

Potamocorbula amurensis

Prosopis glandulosa

Pueraria lobata montana

Rubus ellipticus

Saurida undosquamis

Schinus terebinthifolius

Seriola fasciata

Siganus rivulatus

Tamarix ramosissima

Theodoxus danubialis

Red King Crab

Apple Snail

Ponto-Caspian Shrimp

Blue Swimming Crab

Amur Clam

Honey Mesquite

Kudzu

Asian Wild Raspberry

True Lizardfish

Brazilian Holly

Lesser Amberjack

Dusky Spinefoot

Salt Cedar

Danube Snail

Ammotragus Iervia

Low Risk

SPECIES:

Ammotragus lervia

COMMON NAME(S):

Barbary Sheep

ORIGIN:

Africa

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

1.0

1.0

1.0

1.0

High Risk



Anadara inaequivalvis

SPECIES:

Anadara inaequivalvis

COMMON NAME(S):

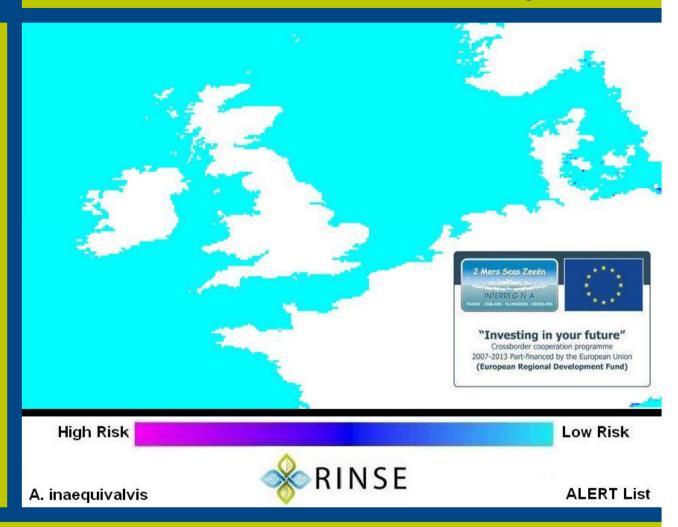
Inequivalve ark

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

2.5

Invasive Potential

1.5

Management Difficulty

2.5

Economic Impact

1.0

Anoploepis gracilipes

Low Risk

SPECIES:

Anoploepis gracilipes

COMMON NAME(S):

Yellow Crazy Ant

ORIGIN:

Africa

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

2.0

1.3

2.0

1.7

High Risk



Aphanius dispar

Low Risk

SPECIES:

Aphanius dispar

COMMON NAME(S):

Arabian Killifish

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

1.0

1.0

2.0

1.0

High Risk



Asparagopsis taxiformis

SPECIES:

Asparagopsis taxiformis

COMMON NAME(S):

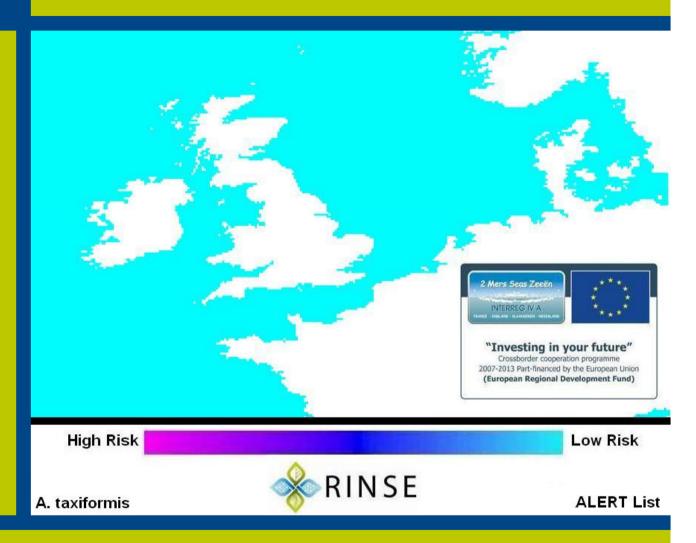
Limu Kohu

ORIGIN:

Europe

HABITAT:

Marine



Ecological Impact

1.0

Invasive Potential

1.0

Management Difficulty

0.0

Economic Impact

1.0

Asterias amurensis

SPECIES:

Asterias amurensis

COMMON NAME(S):

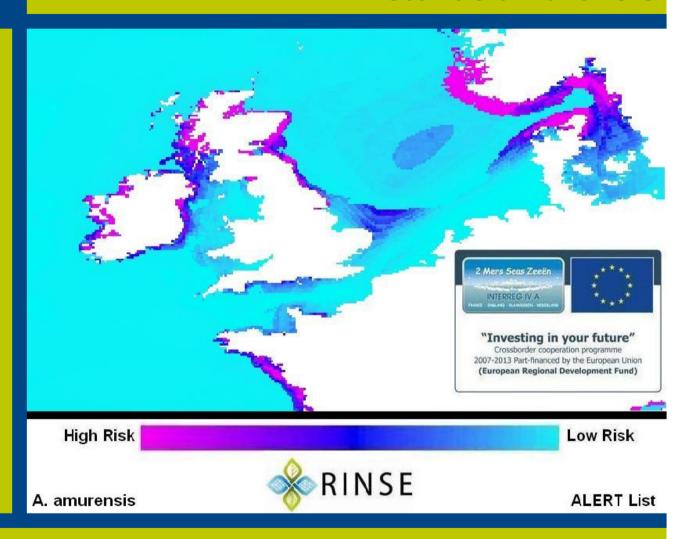
Japanese Sea Star

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

3.0

Invasive Potential

1.5

Management Difficulty

3.0

Economic Impact

2.5

Bison bison

Low Risk

SPECIES:

Bison bison

COMMON NAME(S):

American Bison

ORIGIN:

North America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

1.0

1.0

2.0

1.0

High Risk



Boiga irregularis

Low Risk

SPECIES:

Boiga irregularis

COMMON NAME(S):

Brown Tree Snake

ORIGIN:

Australia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

1.0

3.0

3.0

High Risk



Callosciurus finlaysonii

Low Risk

SPECIES:

Callosciurus finlaysonii

COMMON NAME(S):

Finlayson's Squirrel

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

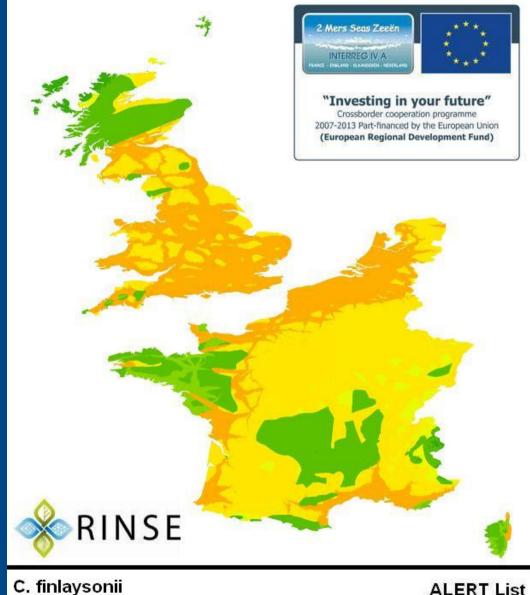
3.0

1.7

2.3

2.0

High Risk



Cercopagis pengoi

Low Risk

SPECIES:

Cercopagis pengoi

COMMON NAME(S):

Fish-hook Waterflea

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

2.7

3.3

2.0

High Risk



Chaetpgammarus warpachowski

SPECIES:

Chaetpgammarus warpachowski

COMMON NAME(S):

Ponto-Caspian Shrimp

ORIGIN:

Europe

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

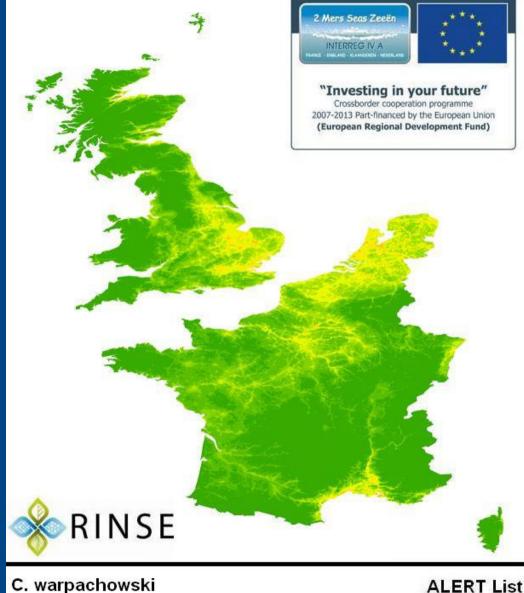
2.5

2.5

4.0

1.0

High Risk



Low Risk

Charybdis longicollis

SPECIES:

Charybdis longicollis

COMMON NAME(S):

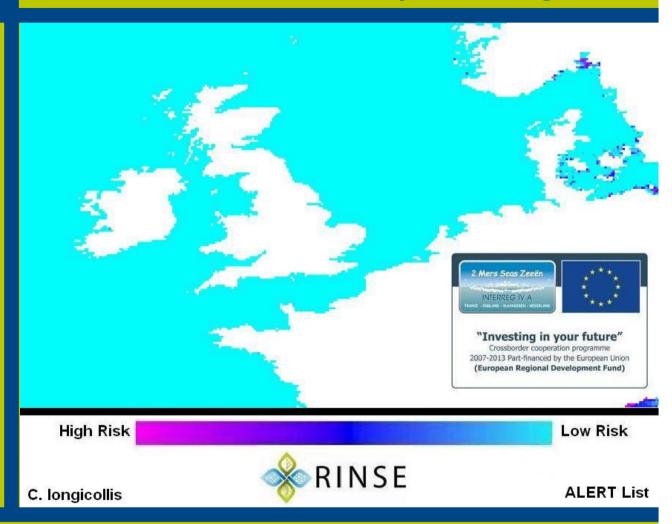
Erythrean Swimming Crab

ORIGIN:

Europe

HABITAT:

Marine



Ecological Impact

1.5

Invasive Potential

-

Management Difficulty

4.0

Economic Impact

1.5

Chionoecetes opilio

SPECIES:

Chionoecetes opilio

COMMON NAME(S):

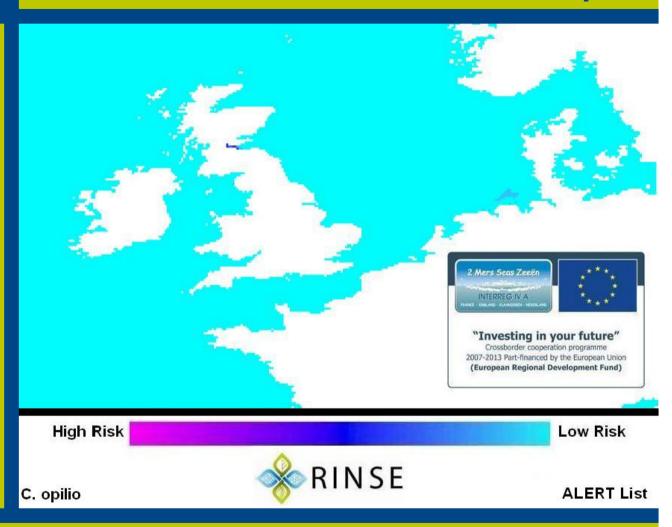
Queen Crab

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

1.0

Invasive Potential

1.0

Management Difficulty

0.0

Economic Impact

1.0

Chrysemys picta

Low Risk

SPECIES:

Chrysemys picta

COMMON NAME(S):

Painted Turtle

ORIGIN:

North America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

3.0

3.0

1.0

High Risk



Clarias batrachus

SPECIES:

Clarias batrachus

COMMON NAME(S):

Walking Catfish

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

1.0

1.0

3.5

1.0



Euglandina rosea

Low Risk

SPECIES:

Euglandina rosea

COMMON NAME(S):

Cannibal Snail

ORIGIN:

North America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

1.0

3.7

2.0

High Risk



Fistularia commersonii

SPECIES:

Fistularia commersonii

COMMON NAME(S):

Blue-spotted Catfish

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

2.0

Invasive Potential

Economic Impact

1.5

1.0

4.0

Management Difficulty

Gammarus fasciatus

ALERT List

Low Risk

SPECIES:

Gammarus fasciatus

COMMON NAME(S):

Fresh Water Shrimp

ORIGIN:

North America

RISK SCORES:

Ecological Impact

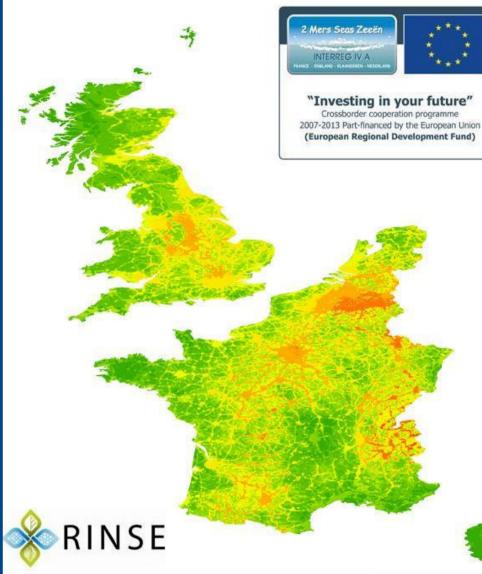
Invasive Potential

Management Difficulty

Economic Impact

High Risk

2.5 G. fasciatus



Imperata cylindrica

Low Risk

SPECIES:

Imperata cylindrica

COMMON NAME(S):

Blady Grass

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

4.0

3.7

2.3

4.0

High Risk



Lantana camara

SPECIES:

Lantana camara

COMMON NAME(S):

Ach Man

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.7

3.3

3.0

3.3



Lates niloticus

Low Risk

SPECIES:

Lates niloticus

COMMON NAME(S):

Nile Perch

ORIGIN:

Africa

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

1.5

2.5

2.5

High Risk



Melaleuca quinquenervia

SPECIES:

Melaleuca quinquenervia

COMMON NAME(S):

Melaleuca

ORIGIN:

Australia

RISK SCORES:

Ecological Impact

Invasive Potential 3.5

3.0

3.0

High Risk

Management Difficulty

Economic Impact

Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.



Low Risk

Miconia calvescens

SPECIES:

Miconia calvescens

COMMON NAME(S):

Bush Current

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

4.0

2.5

2.5

2.5



Mikania micrantha

SPECIES:

Mikania micrantha

COMMON NAME(S):

American Rope

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.5

3.0

3.0

2.5



Muntiacus muntjak

SPECIES:

Muntiacus muntjak

COMMON NAME(S):

Indian Muntjac

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

2.3

1.3

1.3



Neogobius gymnotrachelus

SPECIES:

Neogobius gymnotrachelus

COMMON NAME(S):

Racer Goby

ORIGIN:

Europe

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

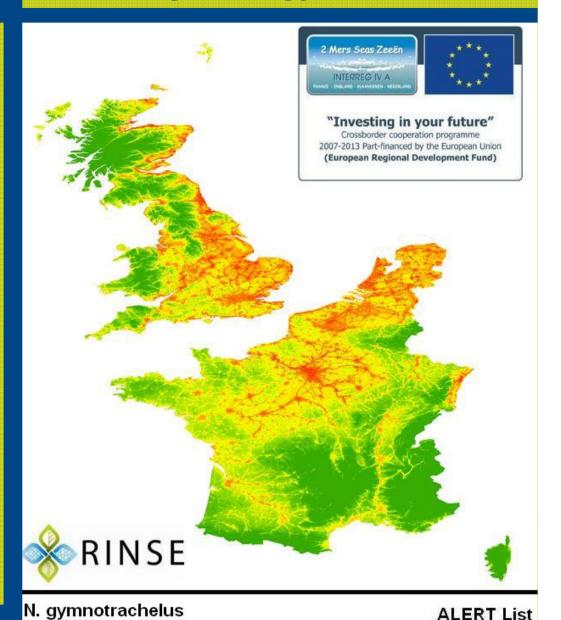
3.3

3.7

2.0

High Risk

Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.



Low Risk

Obesogammarus obesus

SPECIES:

Obesogammarus obesus

COMMON NAME(S):

Ponto-Caspian Shrimp

ORIGIN:

Europe

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

2.0

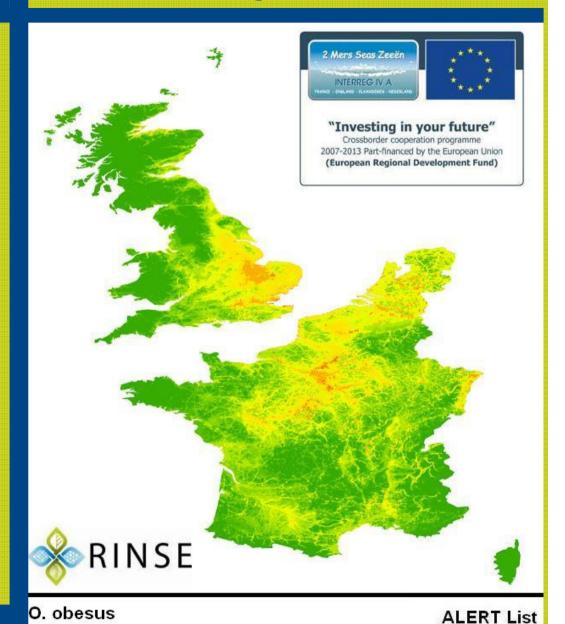
2.7

4.0

1.5

High Risk

Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.



Low Risk

Paralithodes camtschaticus

SPECIES:

Paralithodes camtschaticus

COMMON NAME(S):

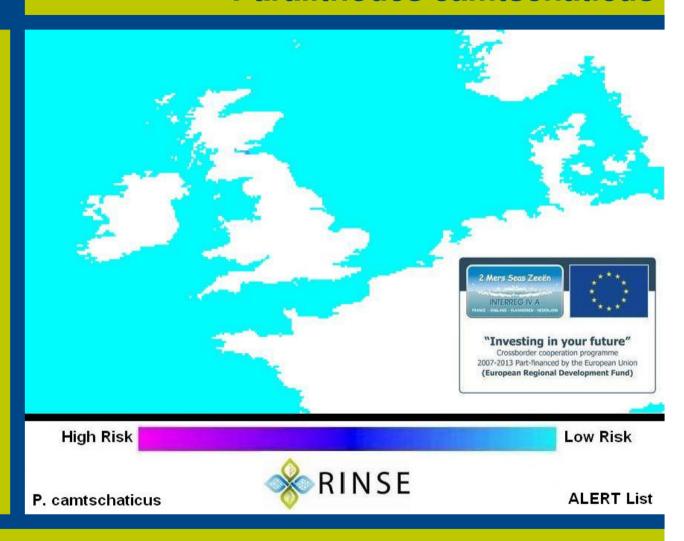
Red King Crab

ORIGIN:

North America

HABITAT:

Marine



Ecological Impact

2.5

Invasive Potential

1.0

Management Difficulty

2.0

Economic Impact

2.0

Pomacea canaliculata

Low Risk

SPECIES:

Pomacea canaliculata

COMMON NAME(S):

Apple Snail

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

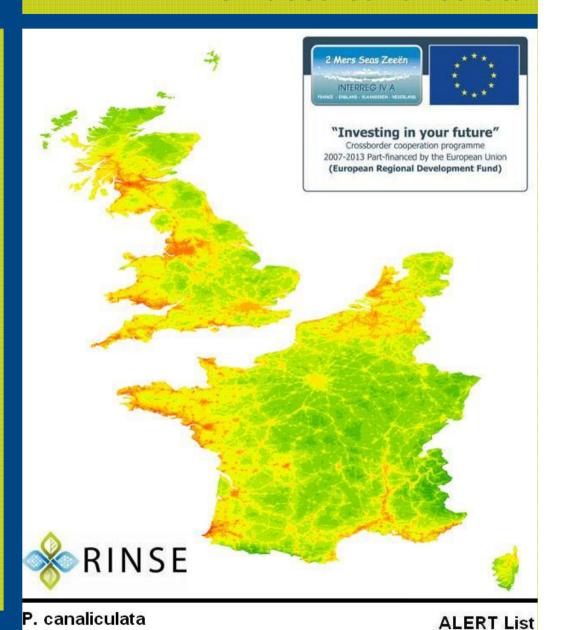
3.0

2.0

3.5

4.0

High Risk



Pontogammarus robustoides

SPECIES:

Pontogammarus robustoides

COMMON NAME(S):

Ponto-Caspian Shrimp

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

2.3 3.0 2.0

P. robustoides

High Risk

INTERREG IV A "Investing in your future" Crossborder cooperation programme 2007-2013 Part-financed by the European Union (European Regional Development Fund) RINSE

ALERT List

Low Risk

Portunus pelagicus

SPECIES:

Portunus pelagicus

COMMON NAME(S):

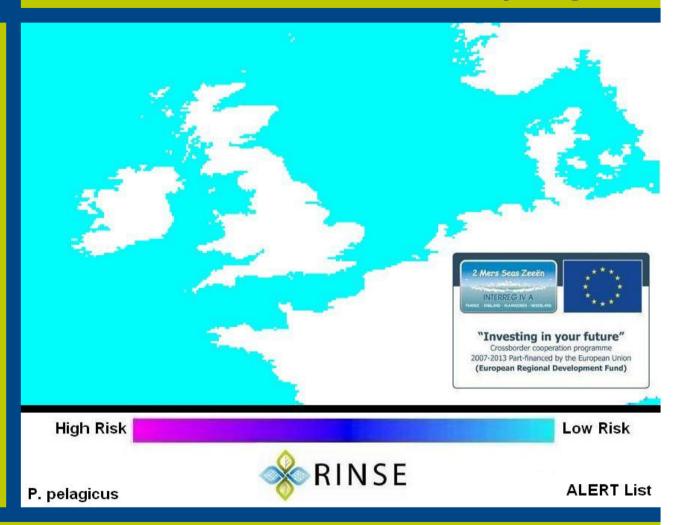
Blue Swimming Crab

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

1.0

Invasive Potential

1.0

Management Difficulty

0.0

Economic Impact

1.0

Potamocorbula amurensis

SPECIES:

Potamocorbula amurensis

COMMON NAME(S):

Amur Clam

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

4.0

Invasive Potential

Management Difficulty

Economic Impact

2.7

4.0

2.7

Prosopis glandulosa

Low Risk

SPECIES:

Prosopis glandulosa

COMMON NAME(S):

Honey Mesquite

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

4.0

2.7

3.0

3.0

High Risk



Pueraria lobata montana

SPECIES:

Pueraria lobata montana

COMMON NAME(S):

Kudzu

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

4.0

3.5

3.0

3.0

High Risk

Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.



Low Risk

Rubus ellipticus

Low Risk

SPECIES:

Rubus ellipticus

COMMON NAME(S):

Asian Wild Raspberry

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

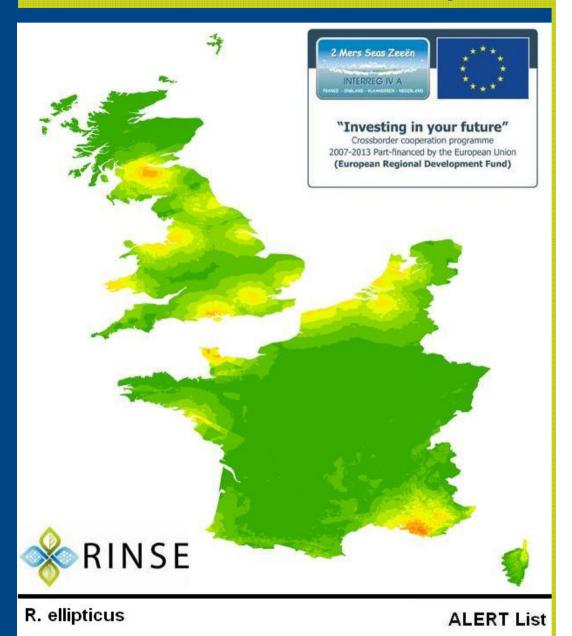
3.7

3.0

3.0

2.3

High Risk



Saurida undosquamis

SPECIES:

Saurida undosquamis

COMMON NAME(S):

True Lizardfish

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

1.7

Invasive Potential

1.0

Management Difficulty

3.7

Economic Impact

1.0

Schinus terebinthifolius

SPECIES:

Schinus terebinthifolius

COMMON NAME(S):

Brazilian Holly

ORIGIN:

South America

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

3.0

2.0

3.0

3.0

High Risk

Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.



Low Risk

Seriola fasciata

SPECIES:

Seriola fasciata

COMMON NAME(S):

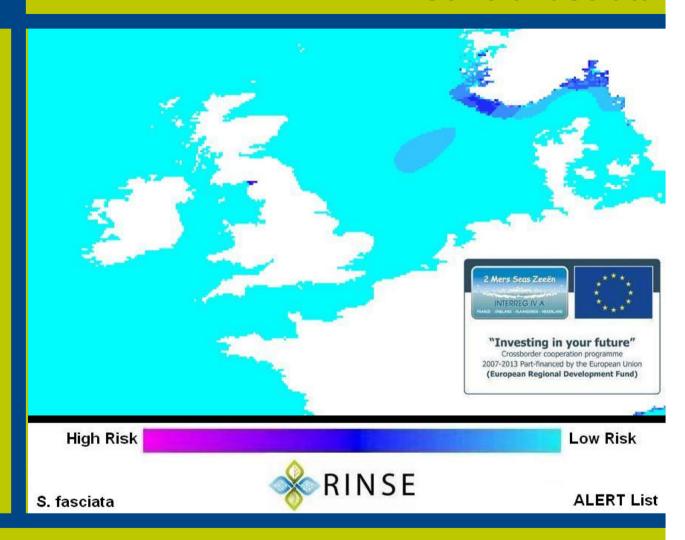
Lesser Amberjack

ORIGIN:

North America

HABITAT:

Marine



Ecological Impact

2.0

Invasive Potential

1.0

Management Difficulty

4.0

Economic Impact

2.0

Siganus rivulatus

SPECIES:

Siganus rivulatus

COMMON NAME(S):

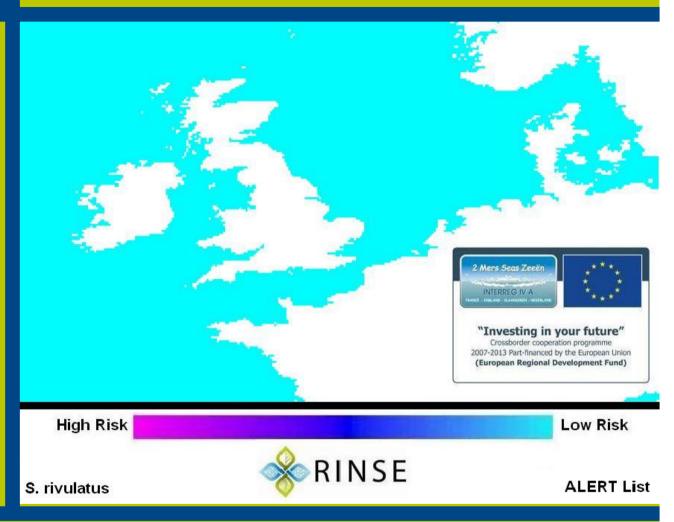
Dusky Spinefoot

ORIGIN:

Asia

HABITAT:

Marine



Ecological Impact

3.0

Invasive Potential

1.0

Management Difficulty

3.5

Economic Impact

1.0

Tamarix ramosissima

Low Risk

SPECIES:

Tamarix ramosissima

COMMON NAME(S):

Salt Cedar

ORIGIN:

Asia

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

4.0

3.0

3.0

3.0

High Risk



Theodoxus danubialis

Low Risk

SPECIES:

Theodoxus danubialis

COMMON NAME(S):

Danube Snail

ORIGIN:

Europe

RISK SCORES:

Ecological Impact

Invasive Potential

Management Difficulty

Economic Impact

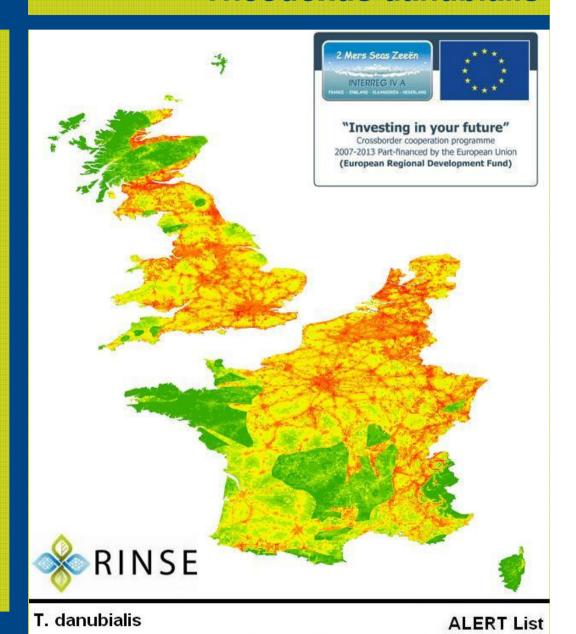
1.0

2.0

3.0

1.0

High Risk



Targeting and Prioritisation

These invasion heat maps are an output from the 'Targeting and Prioritisation for Invasive Non-native Species in the RINSE Project Area' by B. Gallardo, A. Zieritz and D. C. Aldridge, Cambridge Environmental Consulting Ltd.

The RINSE Partnership is happy to share the data associated with these maps. If you should require this data please contact the RINSE Lead Partner, Norfolk County Council on + 44(0)1603 228977 or email nnnsi@norfolk.gov.uk





