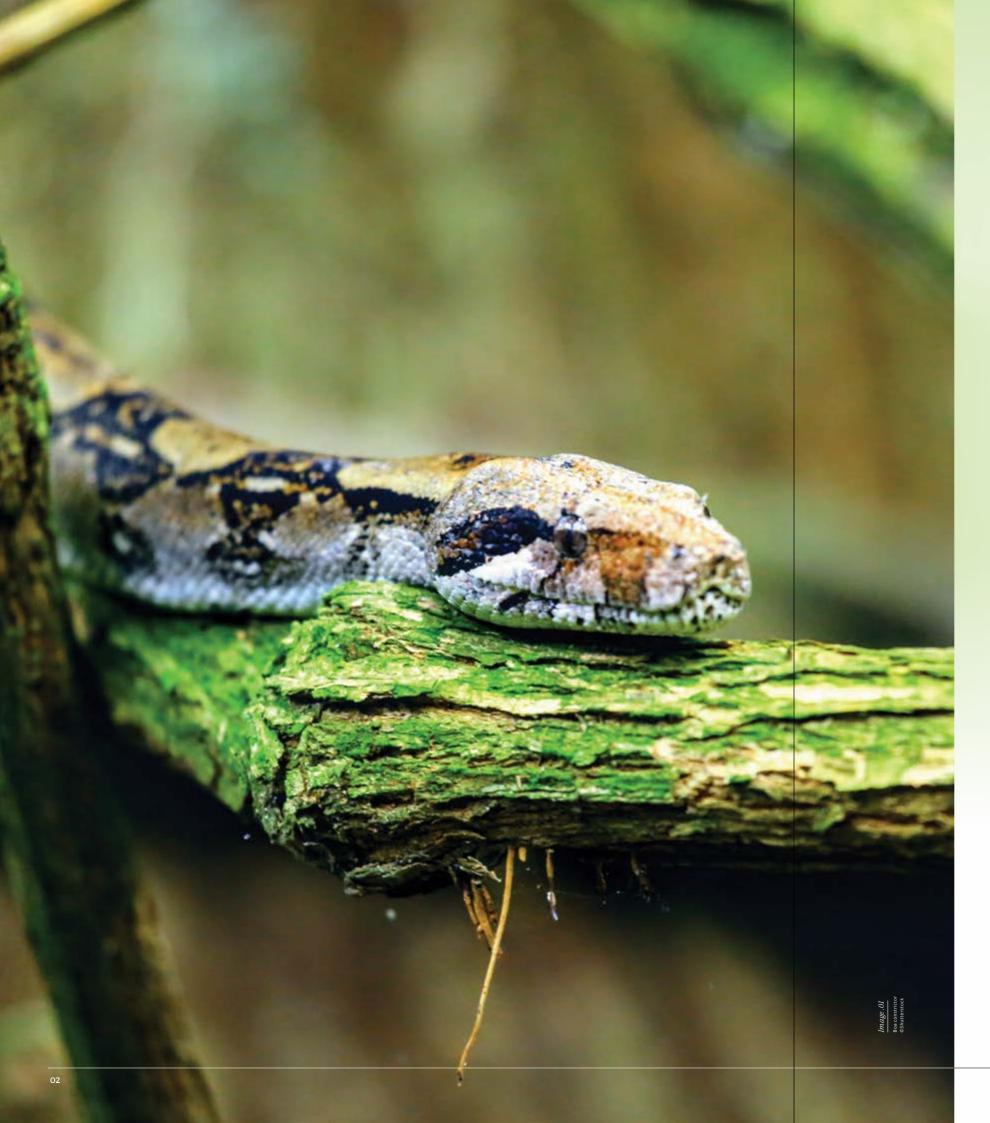


Invasive species threats

to the British Overseas Territories





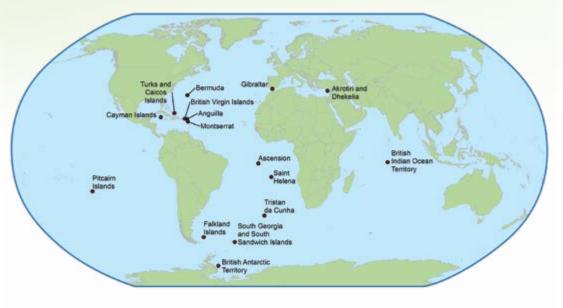


British Overseas Territories at risk

The 14 British Overseas Territories (OTs) account for 94% of the UK's endemic biodiversity and make a significant contribution to global biodiversity.

They are very vulnerable to the introduction of invasive non-native species which pose a huge threat to their biodiversity, economy and human health. Horizon scanning was carried out to predict which new invasive species are most likely to become established in each OT in the next 10 years.

Over 2,500 species were assessed, and 209 invasive species were identified as a significant threat in at least one OT. From this we have developed lists of the top threats. An overall top 50 list was also developed, consisting of 8 vertebrate, 22 invertebrate, 7 plant and 13 marine species.













Overall:

These invasive species cause damage to all three sectors: biodiversity, the economy and human health.

Common name	Scientific name
Little fire ant	Wasmannia auropunctata
Giant African land snail	Lissachatina fulica
Brown rat	Rattus norvegicus
Rose-ringed parakeet	Psittacula krameri
Boa constrictor	Boa constrictor imperator
Mesquite	Prosopis juliflora
Asian green mussel	Perna viridis
Mediterranean mussel	Mytillus galloprovincialis
Pacific oyster	Magallana gigas
Devil firefish / lionfish	Pterois miles / volitans













Biodiversity:

Invasive species prey on and displace native and endemic species, introduce and spread wildlife disease, and transform habitats.

Common name	Scientific name
Little fire ant	Wasmannia auropunctata
Giant African land snail	Lissachatina fulica
Agave snout weevil	Scyphophorus acupunctatus
Brown rat	Rattus norvegicus
Mesquite	Prosopis juliflora
Asian Green mussel	Perna viridis
Mediterranean mussel	Mytilus galloprovincialis
Blue mussel	Mytilus edulis
Devil firefish / lionfish	Pterois miles / volitans
European shore crab	Carcinus maenas

































Economy:

Invasive species damage agricultural and livestock production, fisheries, tourism, and infrastructure.

Common name	Scientific name
Little fire ant	Wasmannia auropunctata
Tomato leaf miner	Tuta absoluta
Yellow fever mosquito	Aedes aegypti
Mediterranean fruit fly	Ceratitis capitata
Asiatic citrus psyllid	Diaphorina citri
Formosan subterranean termite	Coptotermes formosanus
Asian subterranean termite	Coptotermes gestroi
Varroa mite	Varroa destructor
Rose-ringed parakeet	Psittacula krameri
Red-masked conure	Aratinga erythrogenys













Our health:

Invasive species pose severe threats to human health, as vectors of diseases such as malaria, dengue, zika and chikungunya, through nuisance of stings and bites, and bioaccumulation of toxins in the food chain.

Common name	Scientific name
Tiger mosquito	Aedes albopictus
Yellow fever mosquito	Aedes aegypti
Mosquito	Anopheles gambiae
Little fire ant	Wasmannia auropunctata
Giant African land snail	Lissachatina fulica
Cayenne tick	Amblyomma cajennense
Brown rat	Rattus norvegicus
Asian green mussel	Perna viridis
Pacific oyster	Magallana gigas
Devil firefish / lionfish	Pterois miles / volitans

































Top 10 threats

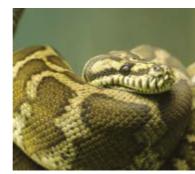
Caribbean:

The Caribbean territories are a relatively unified group in terms of geographic proximity and shared pathways.

Common name	Scientific name
Giant African land snail	Lissachatina fulica
Tomato leaf miner	Tuta absoluta
Mediterranean fruit fly	Ceratitis capitata
Cayenne tick	Amblyomma cajennense
Formosan subterranean termite	Coptotermes formosanus
Asian subterranean termite	Coptotermes gestroi
Common boa constrictor	Boa constrictor imperator
Rose-ringed parakeet	Psittacula krameri
Red-masked conure	Aratinga erythrogenys
Asian Green mussel	Perna viridis











Top 50 threats

The vertebrates

The overall top 50 threats consist of 8 vertebrate, 22 invertebrate, 7 plant and 13 marine species.

Common name	Scientific name
Rose-ringed parakeet	Psittacula krameri
Red-masked conure	Aratinga erythrogenys
House crow	Corvus splendens
Common myna	Acridotheres tristis
Brown rat	Rattus norvegicus
Common boa constrictor	Boa constrictor imperator
Knight anole	Anolis equestris
Tropical house gecko	Hemidactylus mabouia

Geckos compete for food and also can spread parasites to





Rats have caused the extinction of numerous endemic island birds around the world.

















INVASIVE SPECIES THREATS TO THE OVERSEAS TERRITORIES



Ants are aggressive predators of other invertebrates, reptiles, birds and mammals.
They can also have very painful stings.

Top 50 threats

The invertebrates

Common name	Scientific name
Tiger mosquito	Aedes albopictus
Yellow fever mosquito	Aedes aegypti
House mosquito	Anopheles gambiae
Little fire ant	Wasmannia auropunctata
Singapore ant	Monomorium destructor
Red imported fire ant	Solenopsis invicta
Argentine ant	Linepithema humile
Yellow crazy ant	Anoplolepis gracilipes
Tomato leaf miner	Tuta absoluta
Fall armyworm	Spodoptera frugiperda
Giant African Land Snail	Lissachatina fulica
Mediterranean fruit fly	Ceratitis capitata
Carambola fruit fly	Bactrocera carambolae
Agave snout weevil	Scyphophorus acupunctatus
Asiatic citrus psyllid	Diaphorina citri
Formosan subterranean termite	Coptotermes formosanus
Asian subterranean termite	Coptotermes gestroi
Harlequin ladybird	Harmonia axyridis
German wasp	Vespula germanica
Asian hornet	Vespa velutina
Cayenne tick	Amblyomma cajennense
Varroa mite	Varroa destructor





The Giant African land snail is a serious crop and plant pest, and also carries rat lung worm which can affect people.





Tuta absoluta is a serious crop pest, rapidly spreading around the world.









Mesquite has a deep taproot and thrives in very dry



Lionfish are venomous, and also prey on juvenile fish, affecting fisheries, tourism and biodiversity.

Top 50 threats

The plants



Asian snakewood

is highly aggressive, forming very dense,

monospecific thickets up

to several metres thick.

012



is a prickly shrub noxious weed.



Burma reed is an aggressive weed which forms dense, outcompeting native species. It alters fire behaviour,

Top 50 threats

Marine species

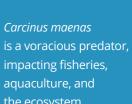
Common name	Scientific name
Devil Firefish / Lionfish	Pterois miles / volitans
Asian Green Mussel	Perna viridis
Mediterranean Mussel	Mytilus galloprovincialis
Blue mussel	Mytilus edulis
Chilean mussel	Mytilus chilensis
Pacific Oyster	Magallana gigas
Bivalve	Semimytilus algosus
European sea squirt	Ascidiella aspersa
European shore crab	Carcinus maenas
Ascidian	Botryllus schlosseri
Ascidian	Ciona intestinalis
Alga	Undaria pinnatifida
Seagrass	Halophila stipulacea

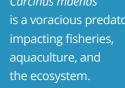






impacting fisheries, aquaculture, and the ecosystem.



















Mussels cause problems with hull fouling of vessels, smother underwater structures, harbour toxins hazardous to human health and block intake pipes in desalination plants.

Pathways of entry

Invasive species arrive in the OTs through a wide range of pathways. These pathways can be deliberate (such as the planned introduction of a pet or garden plant) or unintentional (contaminant and hitchhiker species).

Pathway analysis of existing invasive species in the OTs found the most risky pathway for introducing new plant and invertebrate species was the intentional importation of live plants: the plant itself as a potential weed, and as a vector for invertebrate pests. Associated materials such as soil and plant pots increase the risk of the horticulture pathway.

For vertebrates, the pet trade is the most risky pathway of introduction.

Image .01
States are often smuggled in illegally as pets.

Image .02







Find out more about invasive plants and animals and how you can help to stop the spread at:

www.nonnativespecies.org/home/index.cfm



