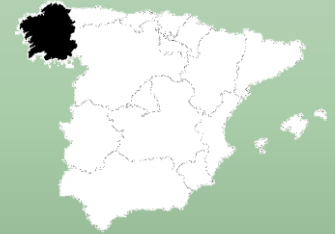


# DunIAS

## Northwest Iberian Peninsula



Universida<sub>de</sub>Vigo



WORKSHOP

Assessment of current and future  
Invasive Alien plant Species (IAS)  
in European coastal dune  
ecosystems

19-20(-21) May 2022  
De Westhoek, De Panne, Belgium



Vlaanderen  
in natuur

AGENTSCHAP  
NATUUR & BOS



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## Introduction



## Main species



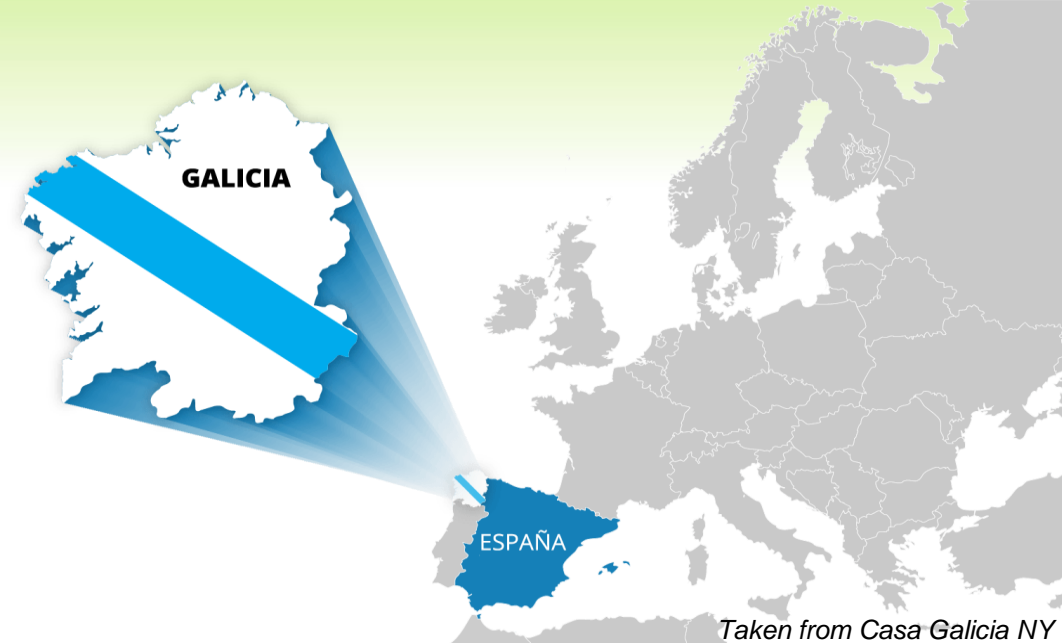
## Other species



## Acknowledgments



# Situation



Taken from Casa Galicia NY



Carnota

Costa da Vela



Seixo

# Acacia sp.



## Description

This genus comprises aprox. 970 species

Trees or bushes, perennial or deciduous

Rapid growth and spread



*A. dealbata*



*A. melanoxylon*



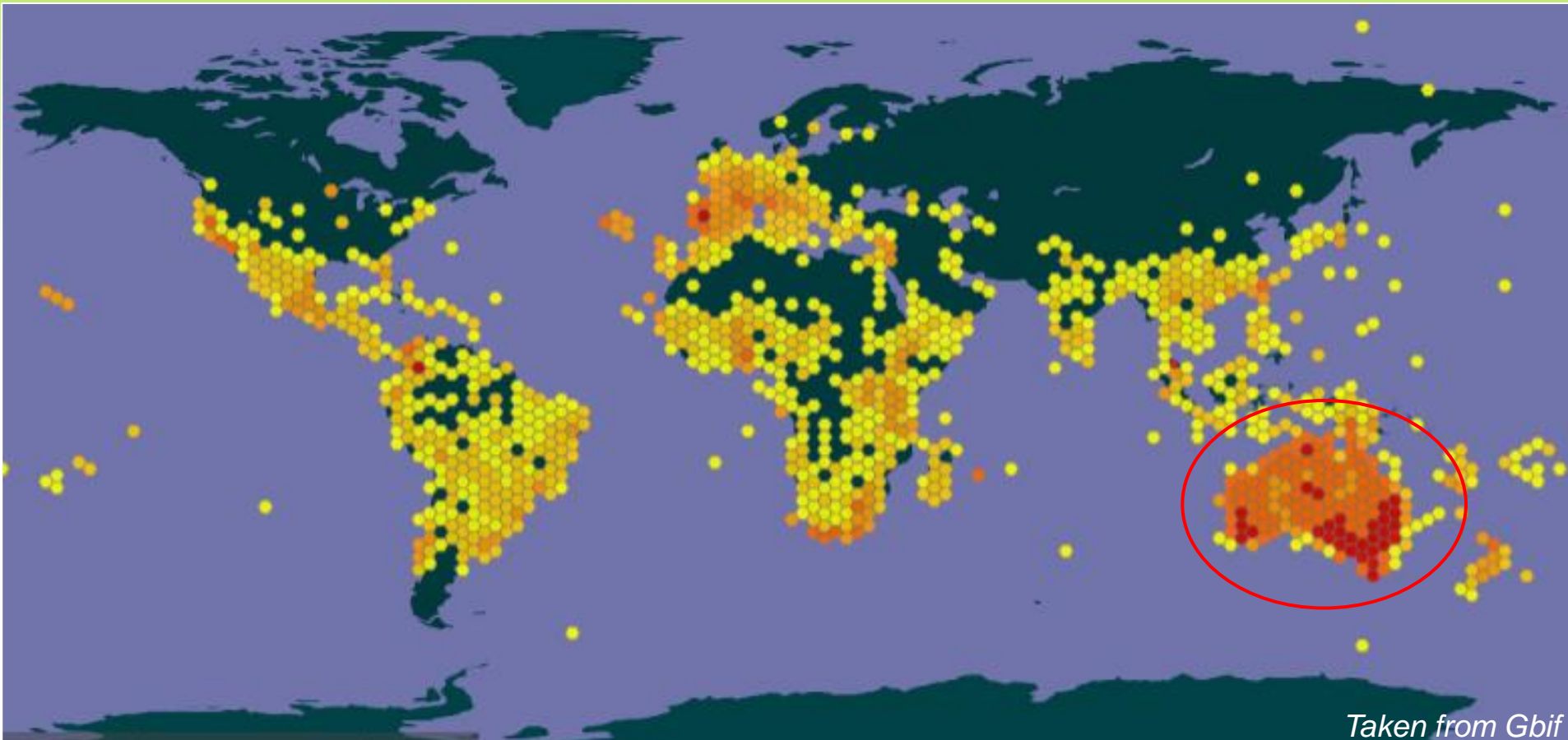
*A. longifolia*



*A. retinoides*

# Acacia sp.

## 📍 Origin & distribution



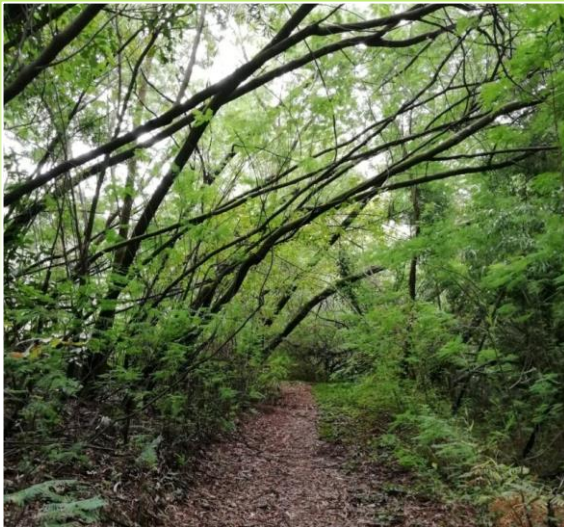
Taken from Gbif

Most of them are native to Australia

# *Acacia sp.*



## Ecological impacts



Colonization of sensitive habitats (dunes, riverbanks...)

Large monospecific masses

Great regeneration and regrowth capacity

Allelopathic potential

# Acacia sp.

## Control & management

### Mechanical

Annual pruning



### Chemical

Glyphosate



### Biological

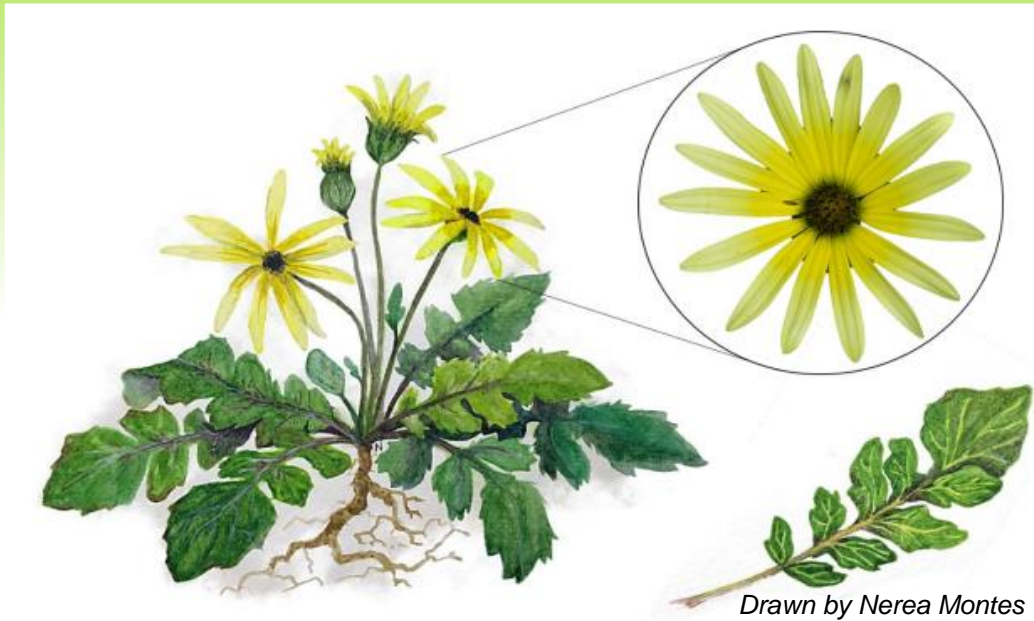
Native species



# *Arctotheca calendula* (L.) Levyns



## Description



Perennial herb that grows in rosettes

Ruderal habitats, weeds, sandy areas (dunes, degraded areas)

Rapid growth, high dispersal capacity, long flowering periods,  
large seed banks



# *Arctotheca calendula* (L.) Levyns

## Origin & distribution



Native to South Africa

# *Arctotheca calendula* (L.) Levyns



## Ecological impacts

Disruptions in the structure  
of the interaction networks

Changes in species composition  
by competition



# *Arctotheca calendula* (L.) Levyns



## Control & management

Mechanical

Manual removal

Chemical

Glyphosate 3% (EEUU)

Biological

Insects, invertebrates...



# *Carpobrotus sp.*



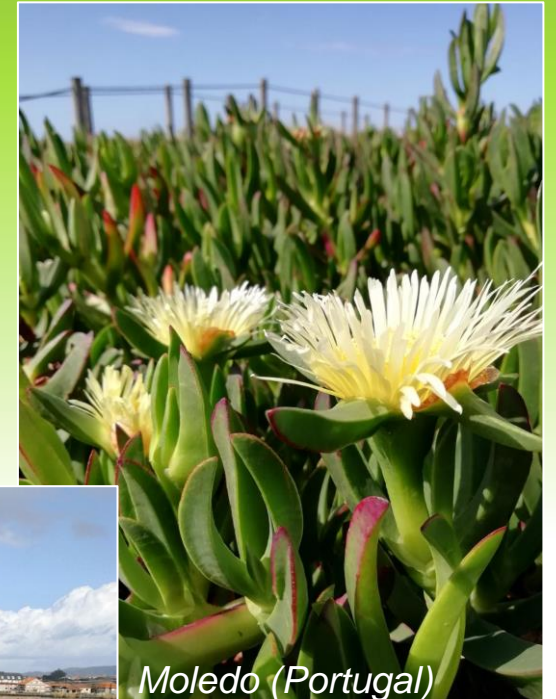
## Description

This genus comprises aprox. 20 species

Different morphology (leaves, flowers...)

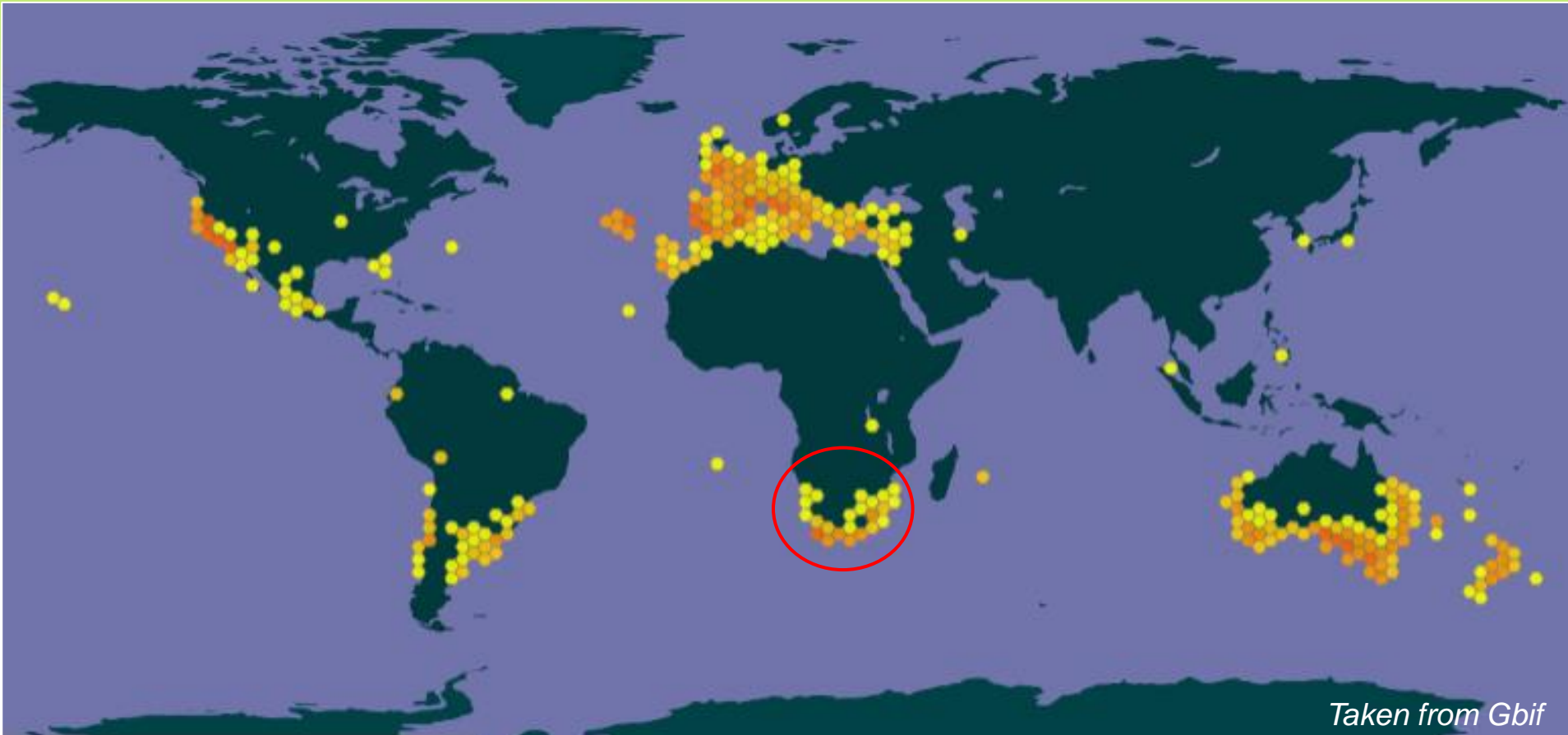
Difficult to distinguish

Easy hybridisation



# *Carpobrotus sp.*

## 📍 Origin & distribution



Native to South Africa

Dangerous in coastal areas

# *Carpobrotus sp.*



## Ecological impacts



*A Lanzada*



*Praia de Moledo, Portugal*



*Praia de Moledo, Portugal*

Competition with native species

Disruptions in natural ecosystems

Changes in soil properties and geochemical processes

# *Carpobrotus* sp.

## Control & management

Mechanical

Manual removal



Chemical

Glyphosate 2%



Biological

*Pulvinariella mesembryanthemi*



*Cortaderia selloana*



*Oenothera glazioviana*



*Oxalis pes-caprae*



*Arundo donax*



*Agave americana* + *Carpobrotus* sp.



*Zantedeschia aethiopica*





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**Carpo Team**

