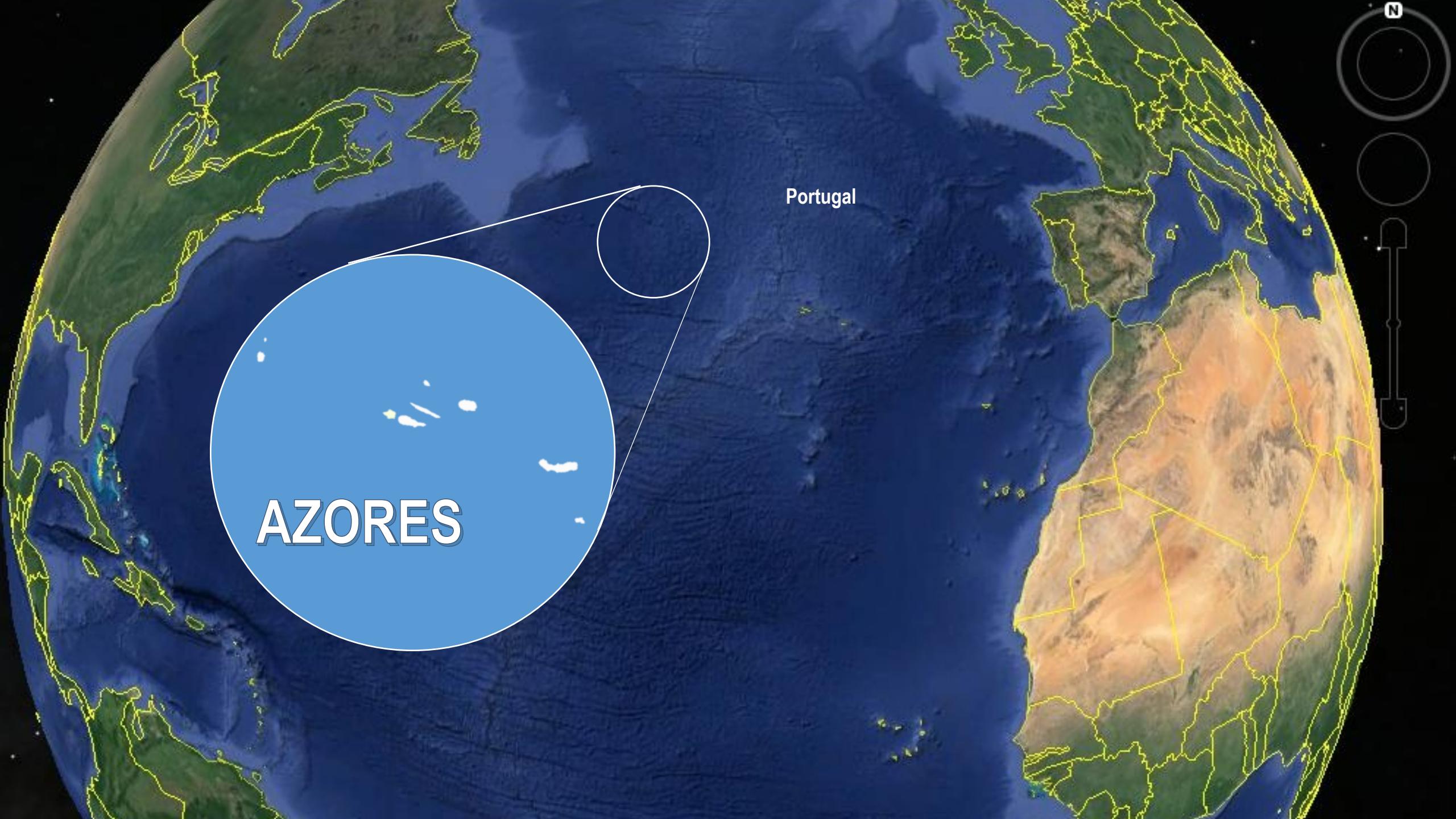


Regional Plan for the Eradication and Control of Invasive Exotic Flora in Sensitive Areas (PRECEFIAS)

Some Examples



AZORES

Portugal

Temperate Oceanic Climate

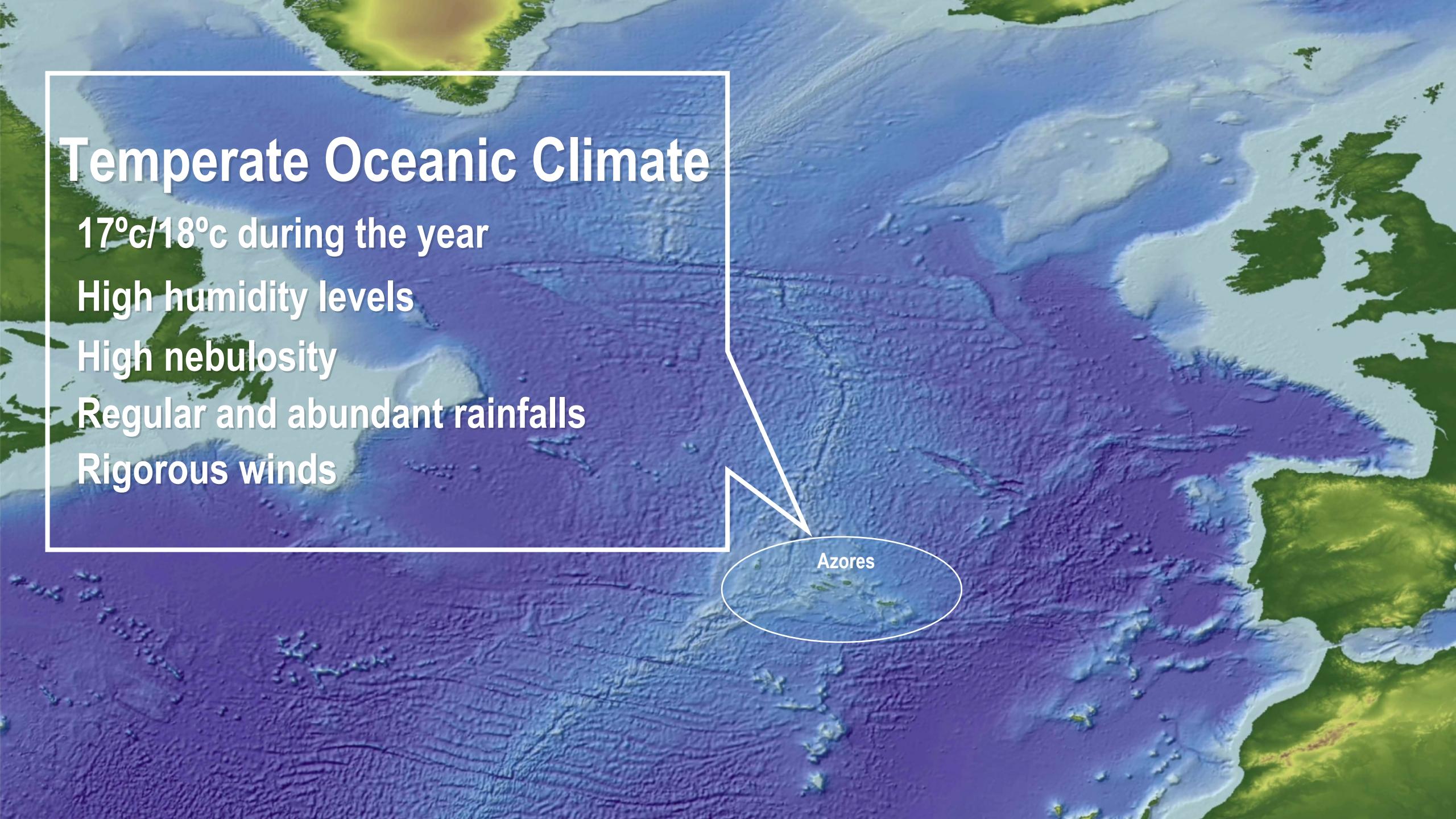
17°C/18°C during the year

High humidity levels

High nebulosity

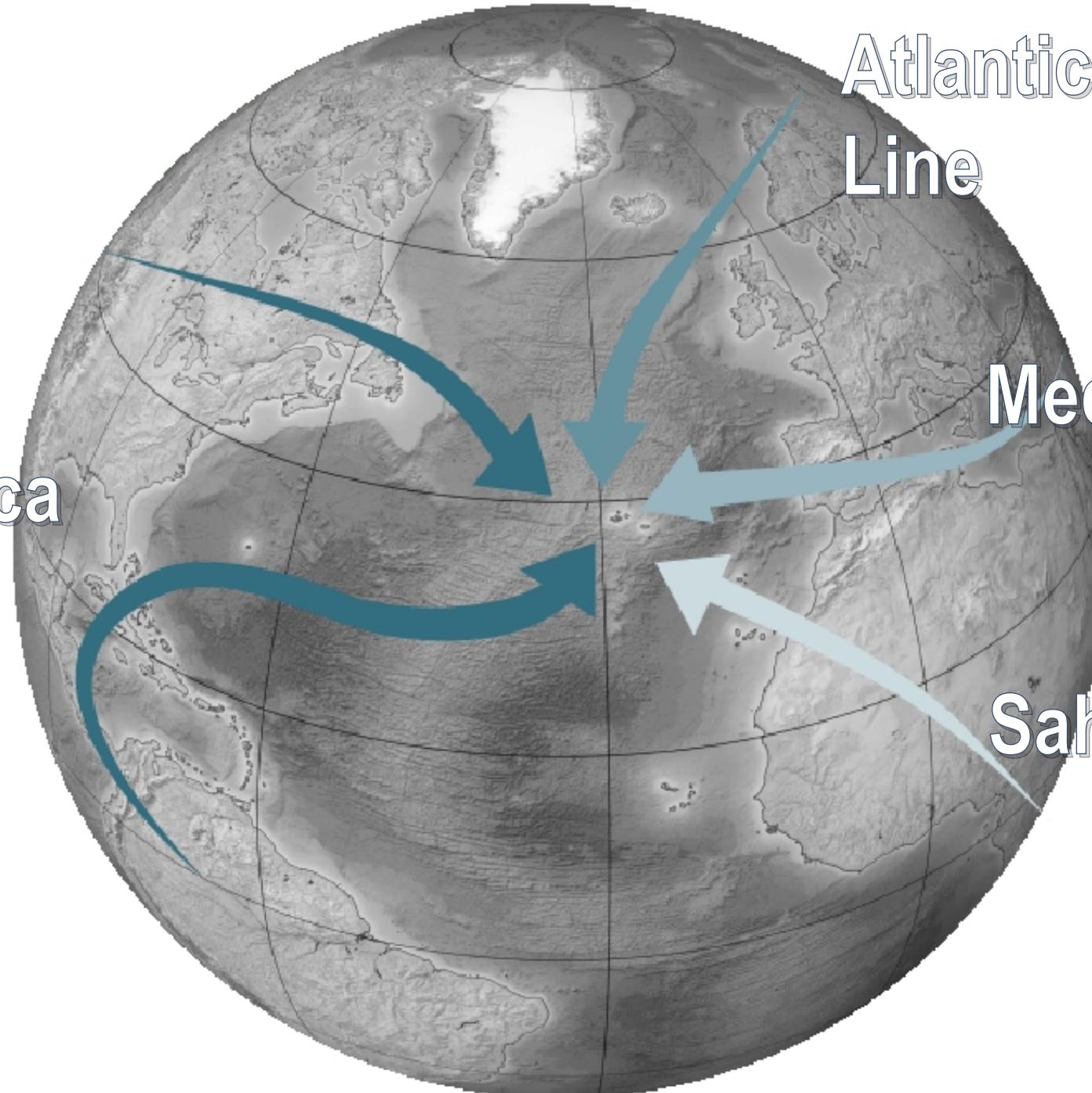
Regular and abundant rainfalls

Rigorous winds



Azores

America



Atlantic-Euro-Siberian
Line

Mediterranean Line

Sahara-Indic line

Long Distance Dispersion Methods



Wind (Anemochory)

Ocean Currents (Hydrochory)

Animals (Zoochory)

DOS AÇORES

VASCULAR PLANTS OF THE AZORES

Total Total - 901
Invasoras Invasive - 51

Especies nativas das ilhas para o resto dos Açores - endemismos e comuns
Especies introduzidas pelo homem nos Açores - invasoras

Species introduced by man in the Azores - introduced and invasive
Species introduced by man in the Azores - invasive

Total Total - 209
Endémicas Endemics - 73

Especies naturais dos Açores
Especies naturais dos Açores - endémicas

Natural species of the Azores
Natural species of the Azores - endemics



In the Azores

910 exotic plant Species

51 Invasive



Carpobrotus edulis (L.) N. E. Br. in E. Phillips



Arundo donax L.



Lantana camara L.



Pittosporum undulatum Vent.



Rubus ulmifolius Schott

© Hanno Schaefer (Azorean Biodiversity Group, CITA-A)



Hedychium gardnerianum Sheppard ex Ker Gawler



Hydrangea macrophylla (Thunb.) Sér.



Clethra arborea Aiton

Bern Convention



35 Azorean Plant Species

26 Endemic



Pericallis malvifolia (L'Hér.) B. Nord. ssp. *caldeirae* H. Schäfer



Prunus azorica (Hort. ex Mouillef.) Rivas Mart., Lousã, Fern. Prieto, E. Dias, J. C. Costa & C. Aguiar



Myosotis azorica S. Watson



Sanicula azorica Guthn. ex Seub.



Juniperus brevifolia (Seub.) Antoine



Vicia dennesiana H. C. Watson

Azorean Legislation

Regional Legislative Decree no. 15/2012 / A, of April 2nd, which establishes the legal regime for the Conservation of Nature and Biodiversity

PRECEFIAS

- PRECEFIAS – Regional Plan for the Eradication and Control of Invasive Exotic Flora in Sensitive Areas
- Implemented in 2004
- In-Situ Conservation

PRECEFIA'S

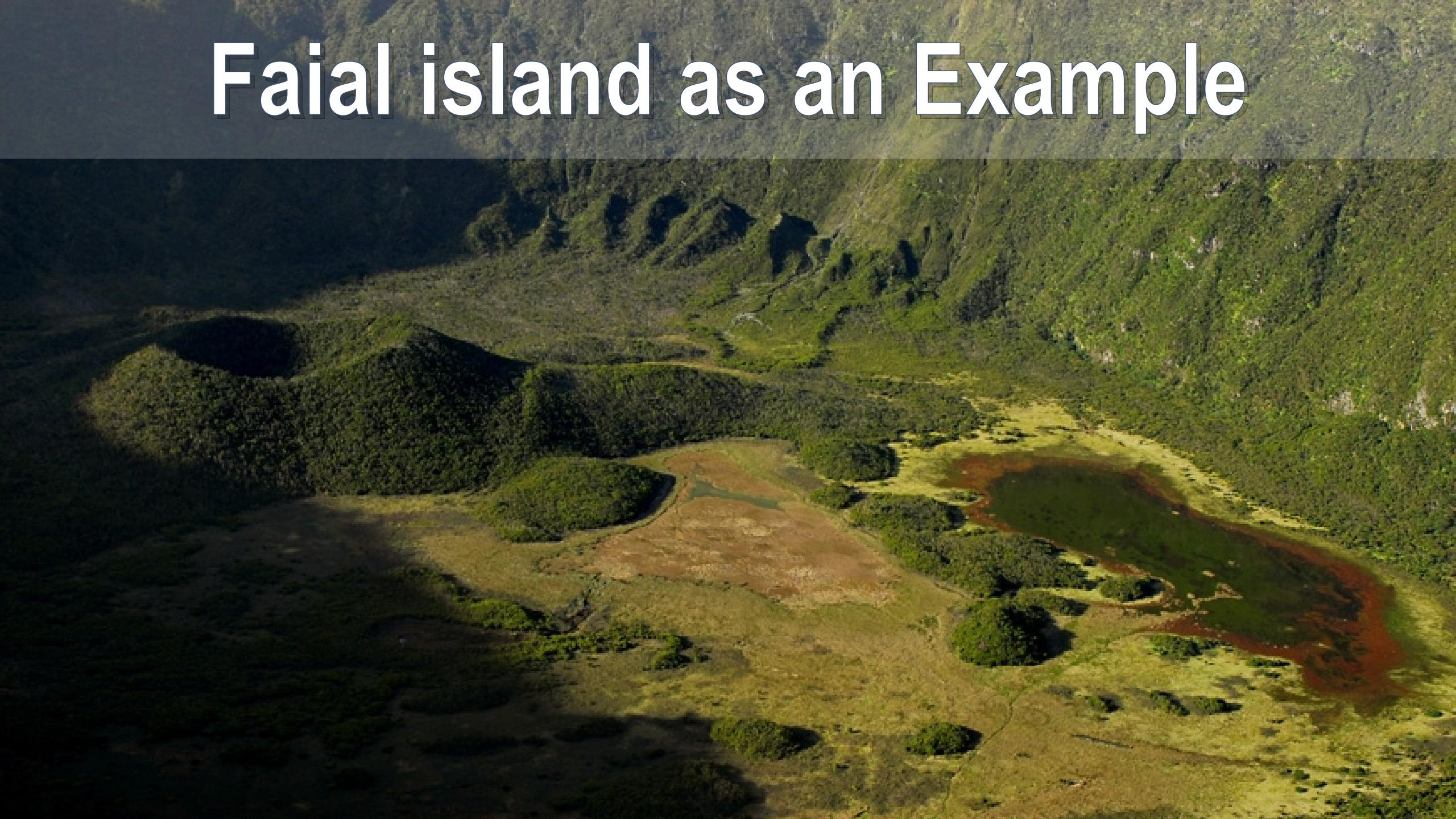
2011 to 2013 – 30 species from 1200 ha

2014 to 2016 – 35 species from 2500 ha, Azores
Government spend 1.500.000€

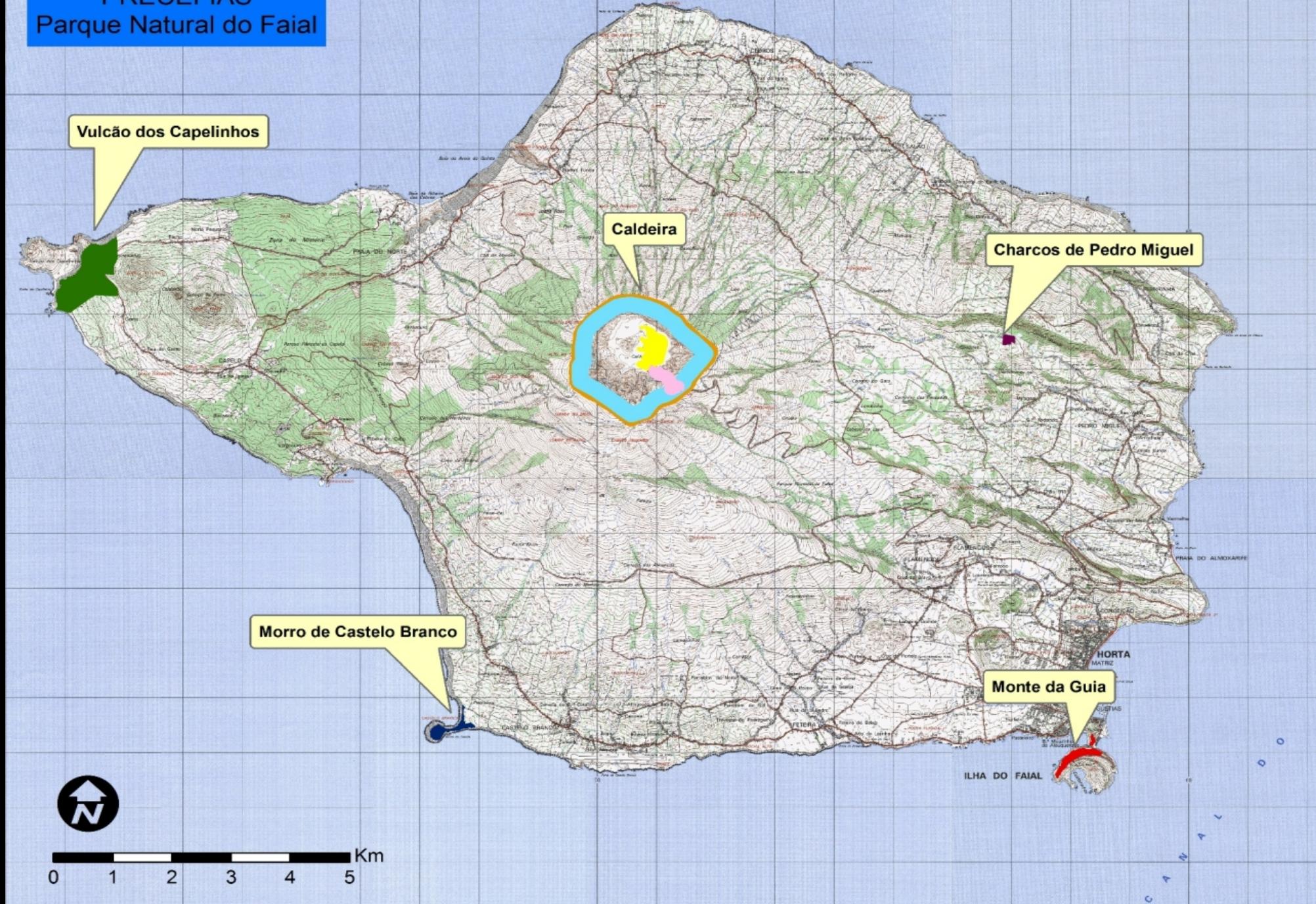
PRECEFIAS

Pittosporum undulatum, Hedychium gardnerianum, Hydrangea macrophylla, Arundo donax, Gunnera tinctoria, Clethra arborea, Carpodrothus edulis, Lantana camara, Ailanthus altissima, Polygonum capitatum, Drosanthemum floribundum, Acacia melenoxylon, Ulex europaeus, Ipomoea indica, Ipomoea imperati, Rubus ulmifolius, Pteridium aquilinum, Leysesteria formosa, Metrosideros excelsa, Canna indica, Solanum mauritianum, Tritonia x crocosmiflora, Cortaderia selloana, Erigeron karvinskianus, Phormium tenax, Ageratina adenophora, Tamarix africana, Ficus carica, Rhaphiolepis umbellata, Crinum moorei, Zantedeschia aethiopica, Phytolacca americana, Tetragonia tetragonoides, Criptomeria japonica, Pinus pinaster.

Faial island as an Example



PRECEFIAS
Parque Natural do Faial

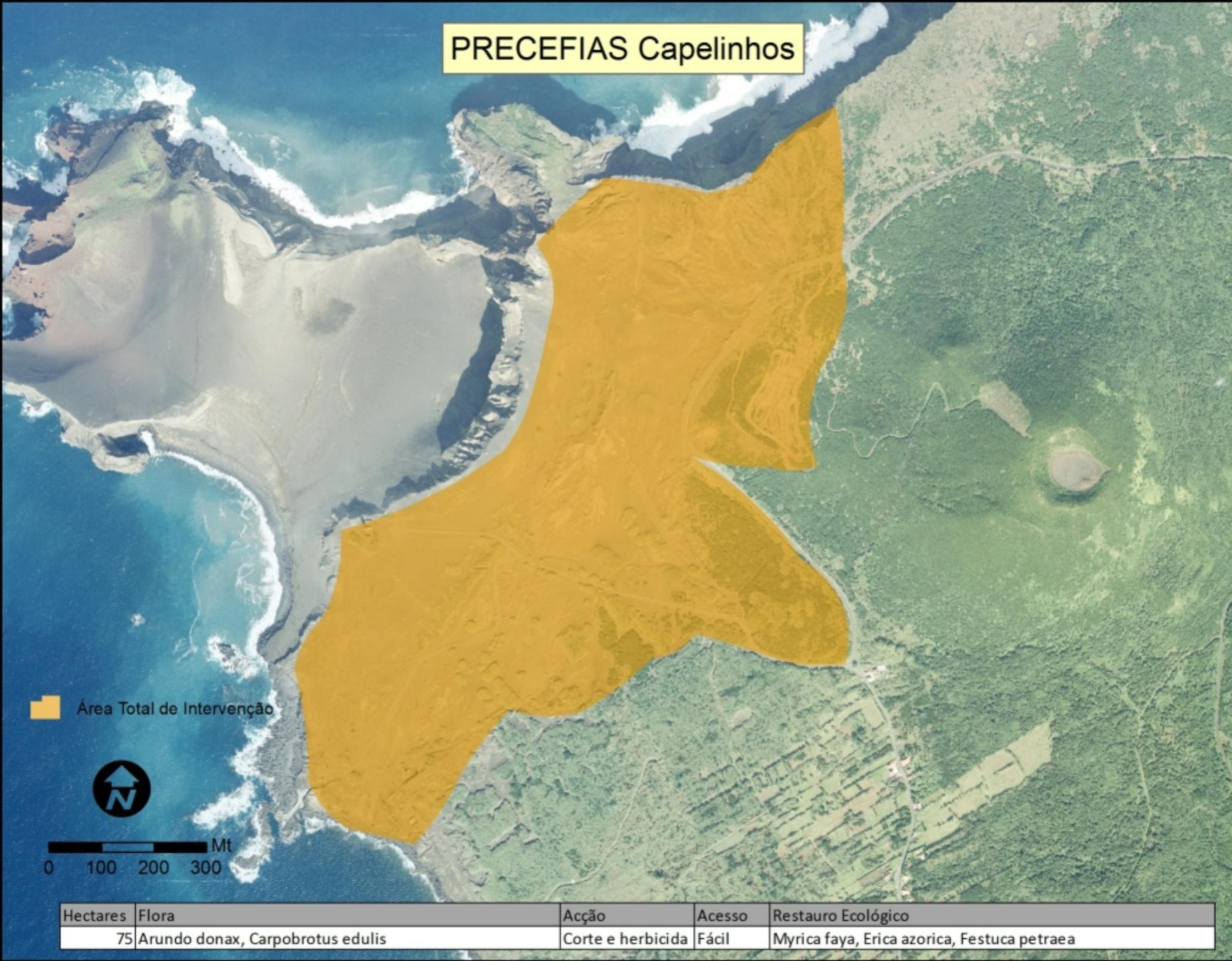


Examples



Capelinhos Volcano - Protected Area for the Management of Habitats or Species of Capelinhos, Northeast Coast and Varadouro

PRECEFIAS Capelinhos



Before PRECEFIAS



After PRECEFIAS

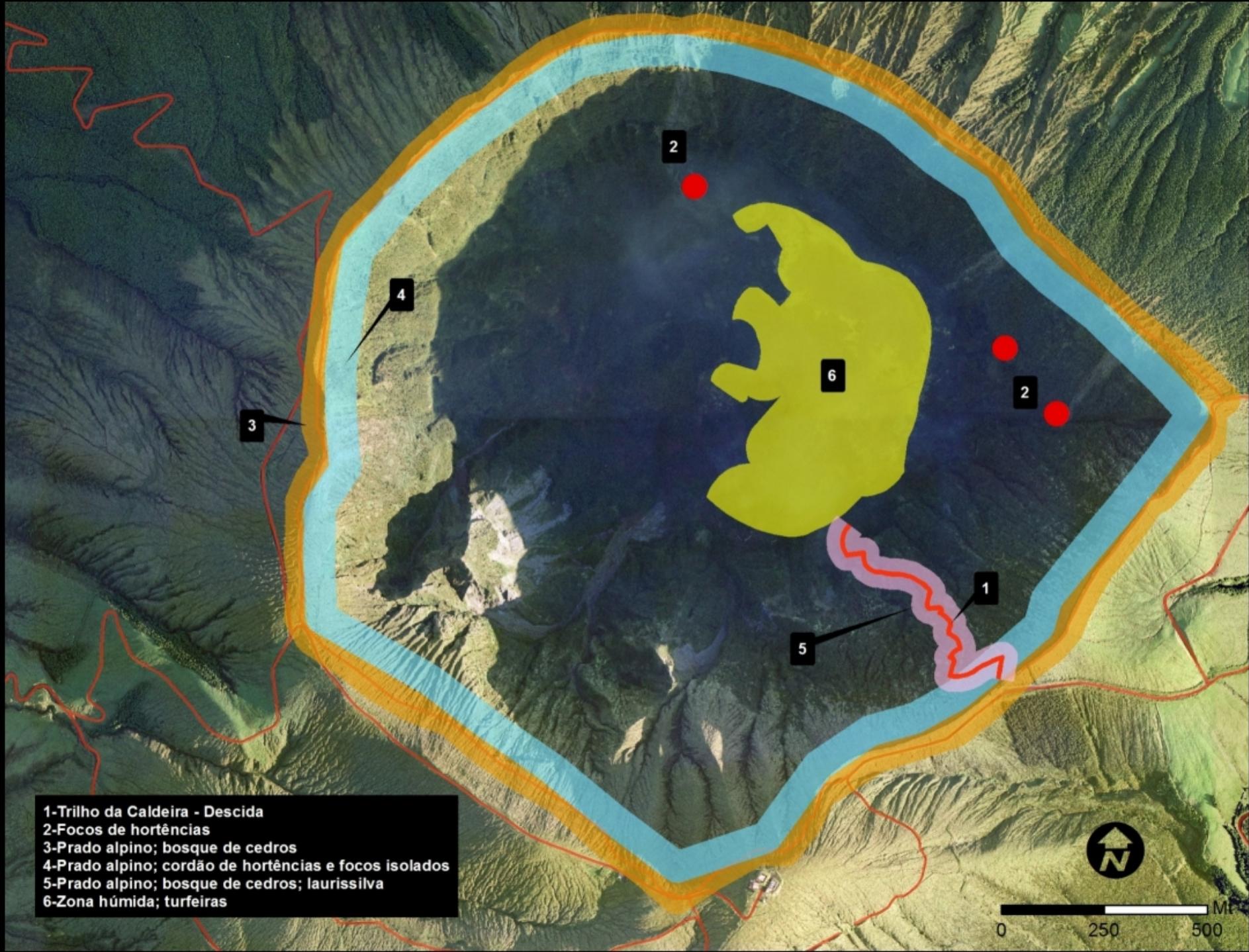


Caldeira of Faial Nature Reserve



1st Nature Reserve of Azores – 1972
Category I IUCN – Nature Reserve
Natura 2000
Ramsar Area
IBA - Important Bird Area

2/3 endemic species are there represented
7 Priority Habitats





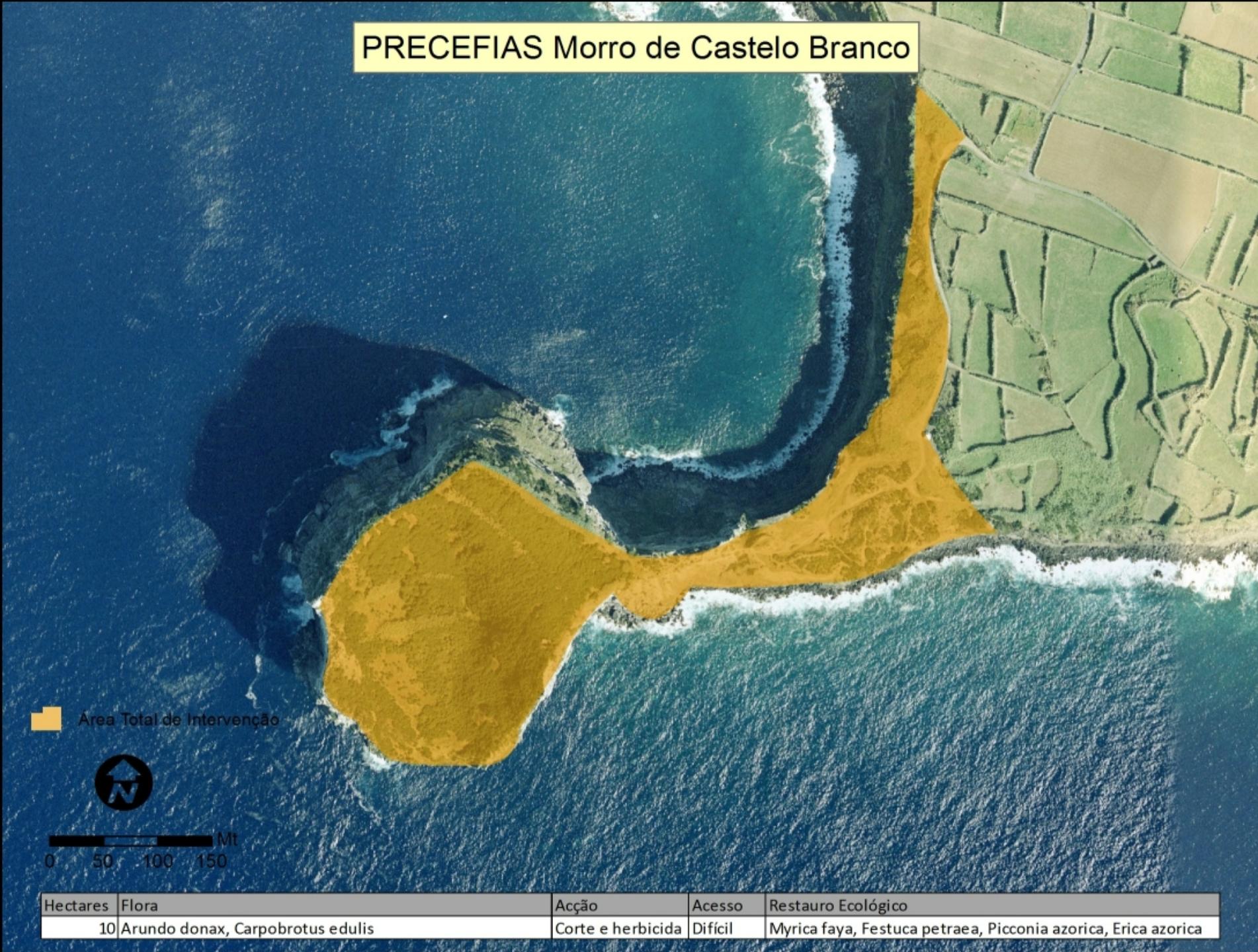




Morro of Castelo Branco Nature Reserve



PRECEFIAS Morro de Castelo Branco



Before PRECEFIAS





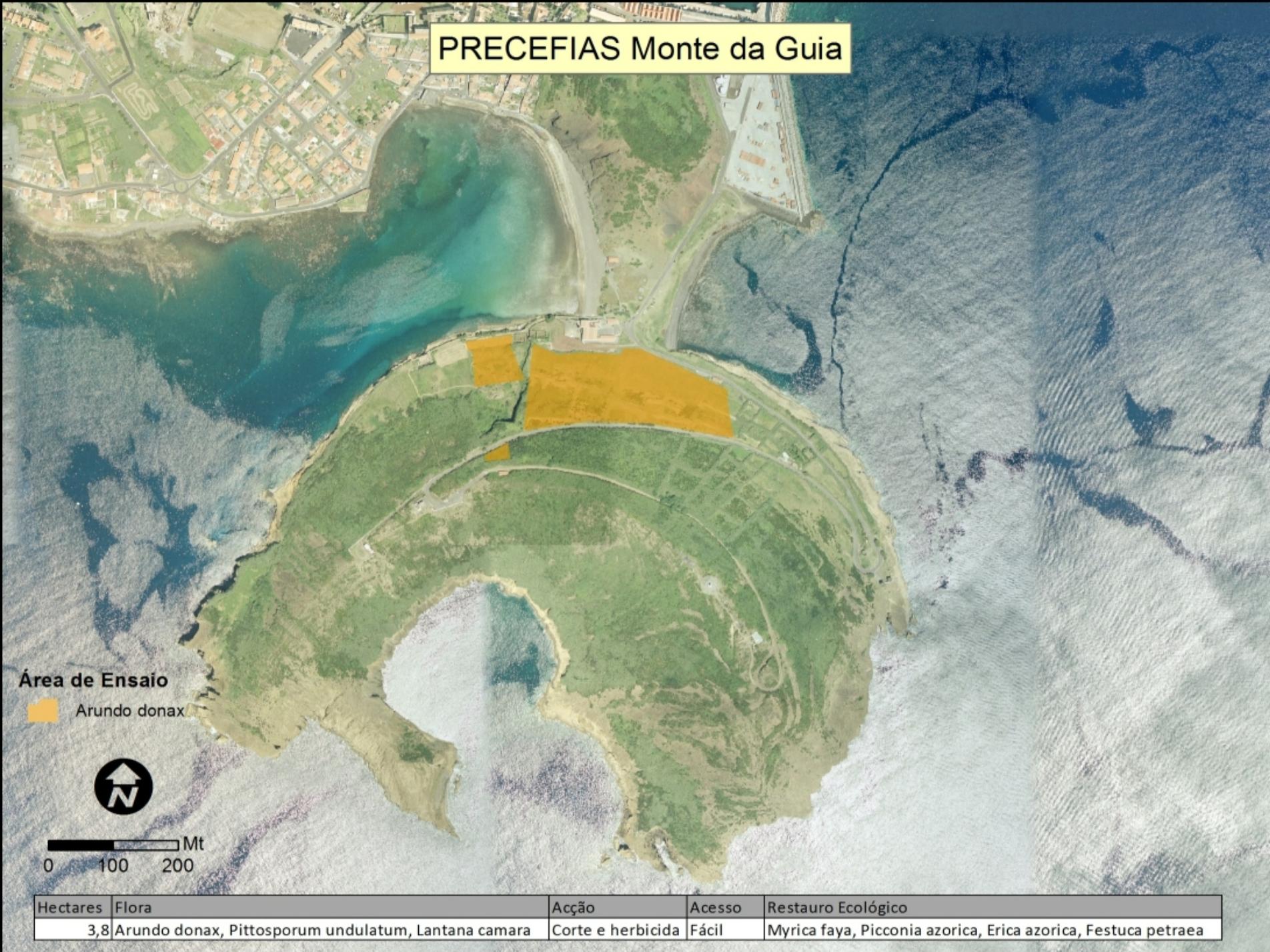
After PRECEFIAS



Protected Landscape Area of Monte da Guia

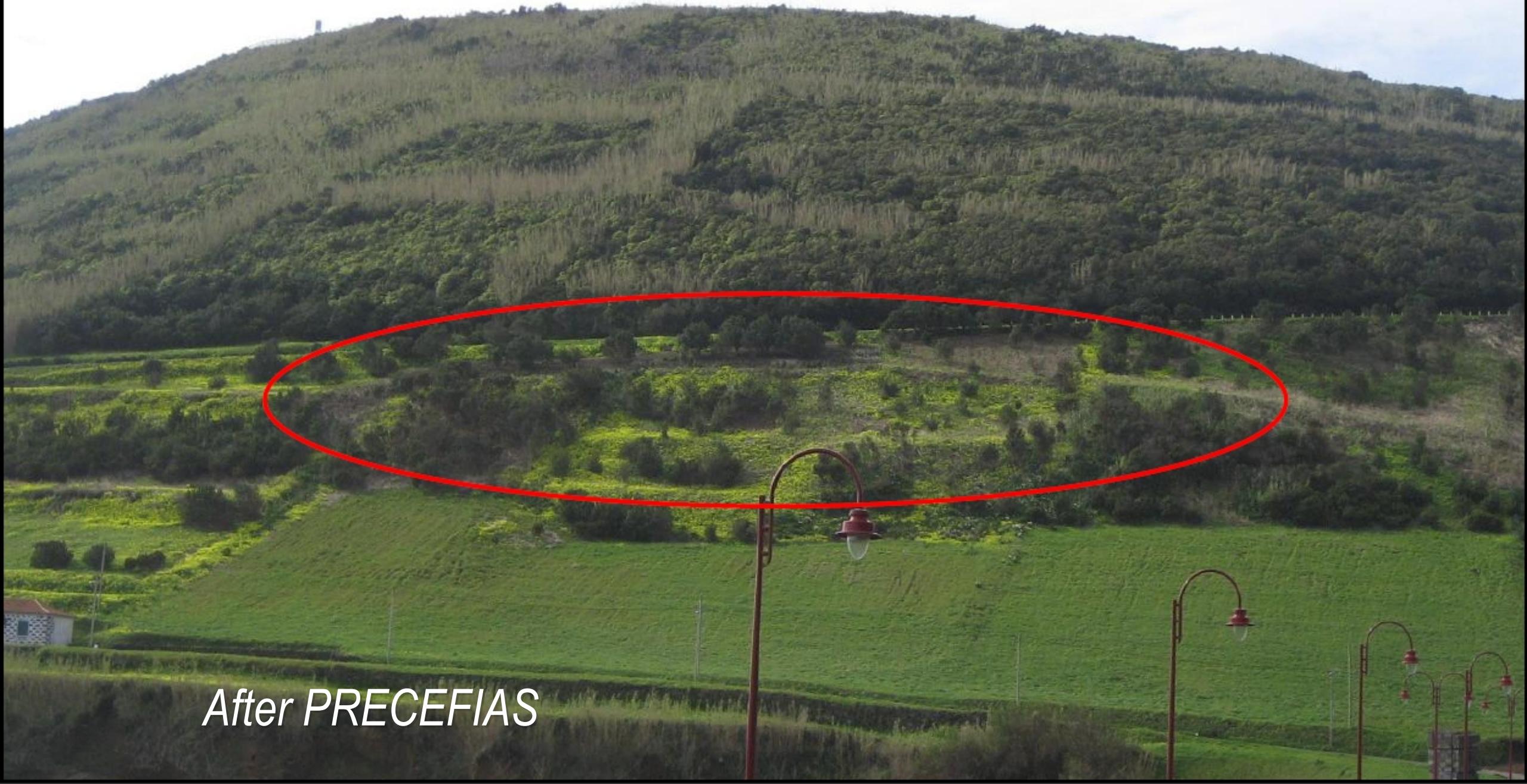


PRECEFIAS Monte da Guia



Before PRECEFIAS





After PRECEFIAS



After these years, we reached the conclusion that the most effective way to remove exotic plants, is by manual process





Thank You