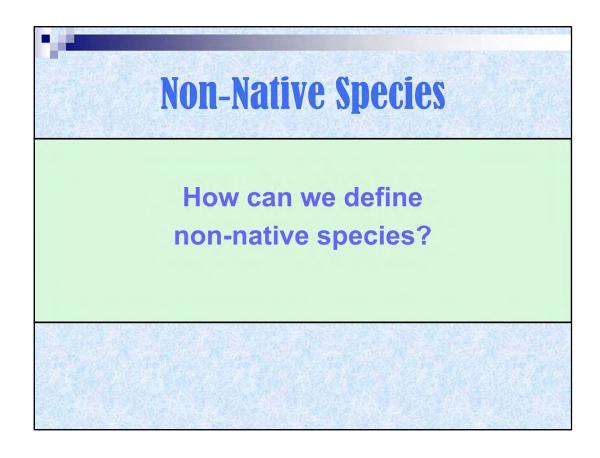
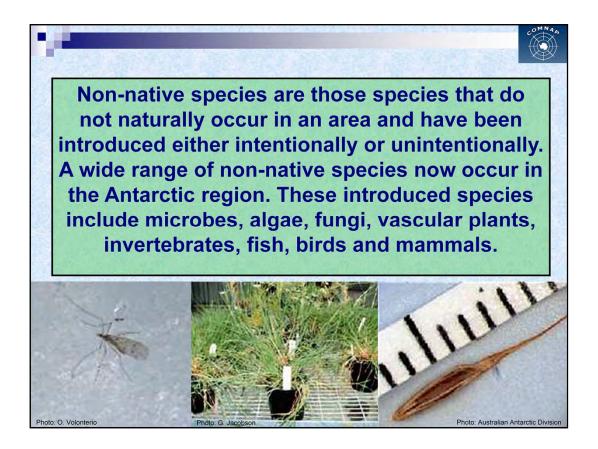




### Release notes (version 1: 22 April 2015)

- This presentation was prepared by the COMNAP Training Expert Group.
- This presentation was made on the basis of training material provided by the National Antarctic Programs of Argentina, Australia, China, India, New Zealand and Spain.
- The International Association of Antarctica Tour Operators (IAATO) also made contributions to the presentation.
- It is intended that this presentation will be kept opened for development and input from all COMNAP members and should evolve to incorporate staff feedback in later versions.
- It can be used freely by anyone wishing to learn more about preventing the introduction of non-native species to Antarctica.
- For further information see <a href="https://www.comnap.aq">www.ats.aq</a>.





Note: Non-native species are also sometimes referred to as "alien species". Definitions vary, however the key points are that the species has been introduced to an ecosystem, introduction can be intentional or unintentional, into an area where the species is not native. The IUCN World Conservation Union defines alien species as a "species, subspecies, or lower taxon occurring outside of its natural range..." and defines an "invasive alien species" as "an alien species which becomes established in natural or semi-Onatural ecosystems or habitat, is an agent of change, and threatens native biodiversity" (IUCN 2000).

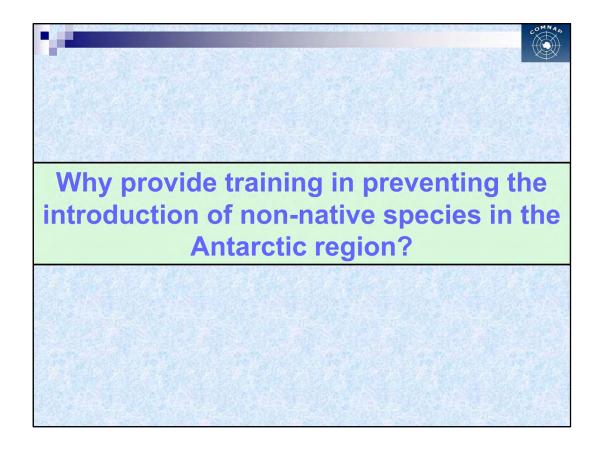
# Principles for Preventing the Introduction of Non-Native Species

The Protocol on Environmental Protection to the Antarctic Treaty \*:

- Prohibits the introduction of non-native species, except those authorized by permit. This permission also records the obligation to remove or destroy the introduced species, if they pose risks to native flora and fauna.
- Provides an exception for food.
- Encourages precautions to be taken against introducing microorganisms, such as viruses, bacteria, fungi, yeasts and parasites.

Environmental Protocol 1991, Annex II "Conservation of Antarctic Fauna and Flora", Article 4 "Introduction of non-native species, parasites and diseases", paragraph 1: No species of animal or plant not native to the Antarctic Treaty area shall be introduced onto land or ice shelves, or into water in the Antarctic Treaty area except in accordance with a permit.

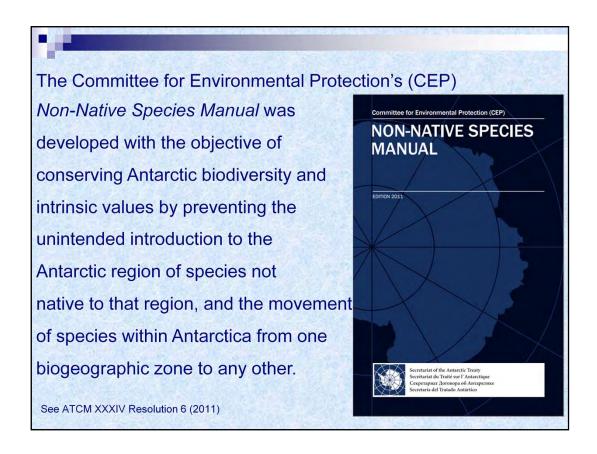
<sup>\*</sup>Annex II "Conservation of Antarctic Fauna and Flora", Article 4 "Introduction of non-native species, parasites and diseases"



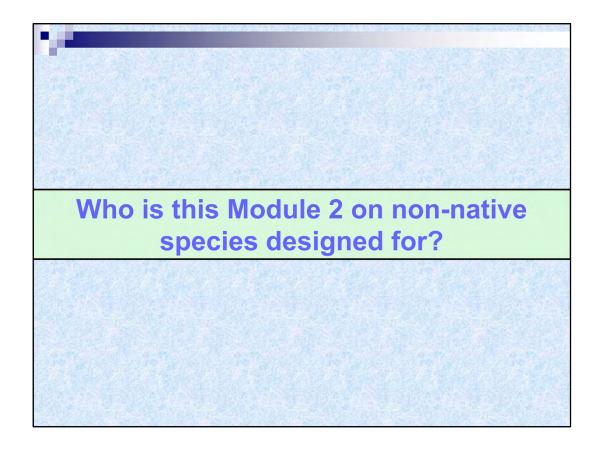


#### **Main reasons**

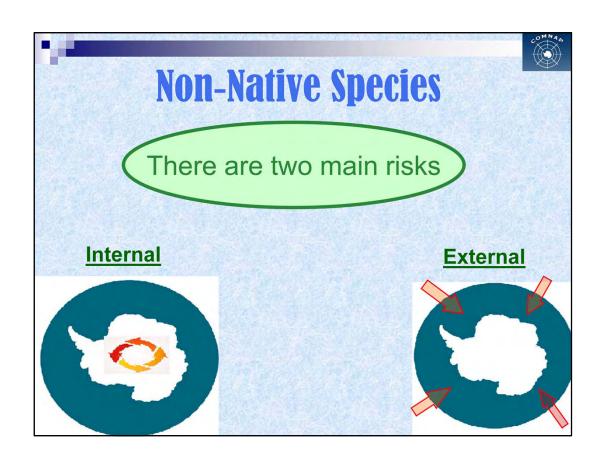
- To conserve Antarctic biodiversity and intrinsic values.
- To **minimise** the risk of accidental or unintentional introduction of non-native species.
- To **prevent** the movement of species within Antarctica from one biogeographic zone to any other.
- To raise awareness of people's responsibilities.
- To **comply** with the principles of the Environmental Protocol.



The CEP Non-native Species Manual presents guidelines to assist with meeting obligations under Annex II of the Environmental Protocol.









# **Non-Native Species**

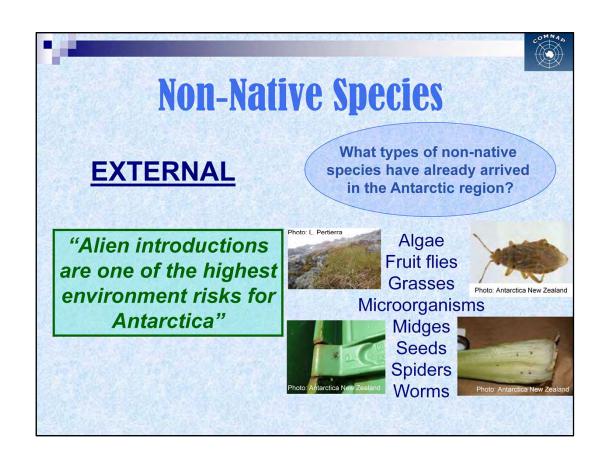
## **INTERNAL**

"The movement of species within Antarctica from one biogeographic zone to any other"

What to do?

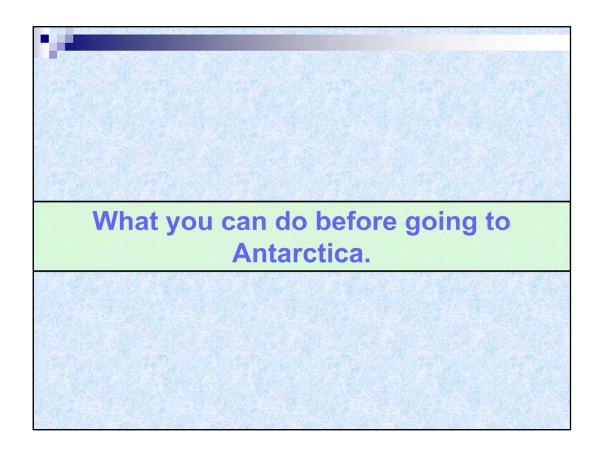
**Keep it clean!** If moving between ice free areas, whether it is between wildlife colonies or different stations in Antarctica, you must ensure that your gear is clean.

Watch your step! Be careful when walking in areas that contain organic matter. Make sure to clean it off before leaving a site.





"Vectors" are the people or things that can move or transport a species from place to place. A vector can be natural also (wind, birds are two examples).







- ✓ **CLEAN** shoes soles with biocide products or disinfectant.
- ✓ WASH all your clothing before going.
- ✓ VACUUM inside your pockets, bags,

backpacks, seams, Velcro fasteners, shoes, wool clothing, cuffs.

✓ **REMOVE** dust or dirt from equipment, tripods, walking sticks, ice axes, etc.

✓ STERILIZE scientific equipment.









These are available as a brochure and in poster size from: https://www.comnap.aq/SitePages/checklists.aspx





