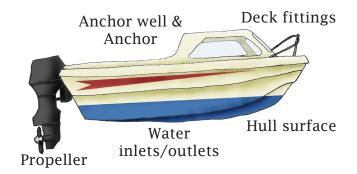
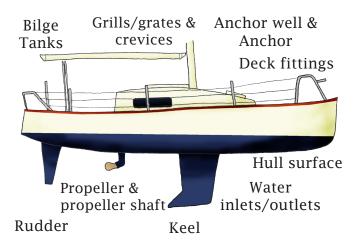
# Areas Requiring Special Attention





### Useful links

**GB Non-native Species Secretariat** www.nonnativespecies.org

The Marine Life Information Network www.marlin.ac.uk

NAFC Marine Centre www.nafc.uhi.ac.uk

#### How Can You Help?

Most marine NNS are spread by hitchhiking on the hulls of boats and you may be unwittingly contributing to their spread.

Regularly cleaning and antifouling your boat and keeping abreast of the current threats posed by marine NNS will improve our ability to control and mitigate their impacts.



Participation by boaters is an essential part of effective management. If you see something unusual on your travels, please report its location, the date found, and send either a sample or photograph to the NAFC Marine Centre in Scalloway, Shetland.

Tel. 01595 772000

Email. marineplan@uhi.ac.uk



## Help Keep Shetland Clean

Reduce your fuel costs
Improve your vessels performance
Contribute to non-native species control



#### **Marine Non-native Species**

Marine non-native species (NNS) are a global problem and pose serious economic and environmental threats.

- · Damage to boats and marinas
- · Block water pipes
- · Increase fuel and maintenance costs
- · Impact local aquaculture and fishing
- · Threaten marine biodiversity
- · Threaten human health



The majority of marine NNS are transported around the globe by large cargo vessels, but, once introduced, the role of recreational boats has a significant influence on secondary, local spread.

Controlling the spread of marine NNS by recreational boating will play a significant role in the management of Shetlands marine environment.

#### **Boat Cleaning**

- Land boat and remove large fouling organisms by hand
- · Dispose material in landfill do not return to sea
- Hose and brush or water blast remaining matter off hull
- · Allow to dry
- Repeat annually to avoid build-up of organisms

#### Antifouling

- ·Renew paint coatings as recommended by manufacturer, if current coat has been damaged, or if persistent fouling occurs
- · Apply paint to clean, dry hull
- ·Pay special attention to hull fittings
- · Apply several coats

Violet Sea Squirt

·Ensure paint is dry between coats and before re-launching vessel

Botrylloides violaceus Diademnum vexillum Sargassum muticum

Carpet Sea squirt

#### Additional Action

- If moving location, check boat hull is clean
- If transporting boat on land, ensure trailer is also clean of fouling organisms (particularly entangled seaweed)
- Ensure all equipment, e.g., fishing gear, dive gear, and canoes, is cleaned before and after use
- Ensure all debris, old equipment, and waste is disposed of correctly on land
- Keep up to date with problematic NNS and assess whether your trip could assist with their spread



*Watersipora subatra* 

Red-ripple Bryozoan



Wireweed

Styela clava

Leathery Sea Squirt