



WORLD SAILING TRUST

World Sailing Trust is registered with the Charity Commission
for England and Wales (registered charity number 1182203)

*Invasive Alien Species:
tackling the most significant threat
to Biodiversity in our oceans*



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Summary

THE ISSUE

The **spread of invasive alien species** via biofouling attached to the hulls and other surfaces of recreational boating vessels is a key environmental issue. The International Maritime Organization (IMO), a United Nations specialized agency, has established the GEF-UNDP-IMO GloFouling Partnerships Programme (IMO-GloFouling) to help address biofouling across the whole maritime sector.

THE SOLUTION

Through IMO and its GloFouling Programme, a collaboration has been forged between the **International Union for Conservation of Nature (IUCN)** and **World Sailing (WS) in partnership with the World Sailing Trust (WST)**, and the **International Council of Marine Industry Organisations (ICOMIA)**. Together we plan to convert scientific research into best practice guidance to reduce and eliminate the movement of biofouling by the sailing community. Implementing this guidance through World Sailing and ICOMIA's global networks will reduce the risk of spreading aquatic invasive alien species, avoiding damage to the marine environment and the boats that navigate in and through them.

THE FUNDING NEED

Whilst some funding from the GloFouling Programme has been ringfenced for the work on recreational boating (and will contribute to this project as outlined in the project budget) there is an opportunity to activate the group to deliver greater impact on a global scale.



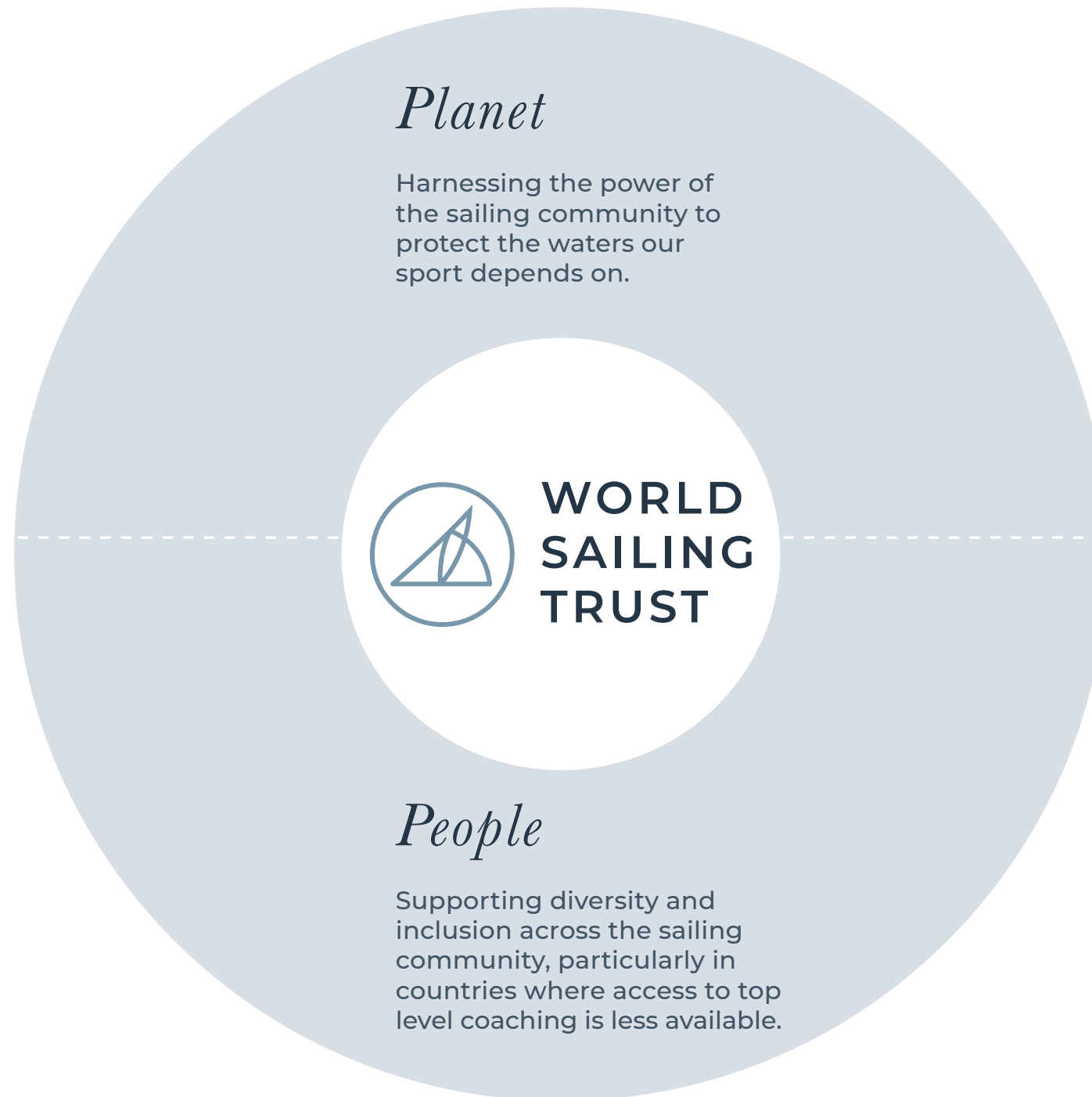
Introduction

World Sailing Trust is a global charity established in June 2018 to support sailing in all its forms. We work to promote participation and access, support young sailing athletes, and safeguard our waters for future generations.

Our connection to World Sailing, the world governing body for the sport, provides a unique opportunity to influence and impact across the global sailing community.

We use our collective influence to inspire greater participation in sailing and sustainability to enhance our sport's future. The Trust works with far-reaching partnerships across the globe, promoting our sport and protecting the waters it depends on so that sailing can be enjoyed by generations to come.

Our Work: two focus areas



Marine Health Projects to date



SUSTAINABLE SAILOR TRAINING

We are working with World Sailing and The Ocean Race to produce educational resources for 6-12 year olds on:

- Boats and races across the sport
- Navigating with wildlife and biodiversity
- Waste
- Oil & Fuel
- Cleaning and maintenance, and avoiding invasive species transfer
- Resources efficiency and climate change

The resources will be produced in English, Spanish, French, Chinese, Japanese, Portuguese, Arabic and Swedish, and will include worksheets, student booklets and trainers' activity guides.

Partners including MNAs, Classes and Special Events will be able to co-brand these resources for use in their programmes.

SAILING CLUB SUSTAINABILITY

We are working with World Sailing to develop guidance for sailing clubs to lower their environmental impact.

To ensure the resources are relevant to all we are gathering international case studies from sailing clubs who have made positive changes to their club, reducing their impact on the environment.

Replicable projects will be shared to enable others to learn from best practice around the world. Issues addressed will include: energy use, waste management, water recovery, micro renewables, refueling, invasive species management and more.

OCEAN HEROES — BOOTCAMP



LONELY WHALE



WORLD SAILING OCEAN HEROES

The World Sailing Trust has partnered with Captain Planet Foundation and the Ocean Heroes Partners to empower youth sailors to influence their local sailing community to protect their sailing waters, bringing World Sailing Ocean Heroes to the Emerging Nations Programme and Youth World Championships in Poland in July 2019.

Participants took part in 4 workshops, learning about ocean pollution, and the crisis facing our planet's waters. Sailors joined from 23 countries from Sweden to Ecuador, Canada to Colombia, Slovakia to Antigua. We also launched a bespoke online platform: worksailingoceanheroes.com and we plan to build on this success in 2020.

The Issue

Invasive alien species (IAS) are species that are introduced by humans, intentionally or accidentally, into areas outside their natural range, establishing populations that have a negative impact on native biodiversity. According to The **IUCN Red List of Threatened Species™**, IAS are one of the top causes of biodiversity loss, and are a global threat to food security, ecosystem services, and human health. IAS can damage boats, restricting navigation and damaging propellers, increase fuel consumption (and consequently greenhouse gas emissions) and impeding the safety of boats and recreational craft. IAS can also affect marina and port facilities, blocking channel locks, damaging equipment and docking areas.

IAS are often transported across the world's oceans to new areas through **biofouling**. This is where animals or plants attach themselves to the underwater parts of vessels and propeller gear, which then move to other areas, spreading and establishing new populations, often damaging local marine environments. Due to the increase in the movement of people and goods the number of species being introduced into new areas is rising. Once established it is almost impossible to eradicate or control a marine IAS, so prevention is essential.

Research shows that shipping is a primary vector for the introduction of invasive alien species to new areas with recreational boaters likely to be a secondary spread from shipping areas. Research found over 70% of recreational boats were fouled with at least one nonnative species (Ulman, 2019).

This image shows the impact that invasive alien species such as the Quagga Mussel can have on infrastructure. The Quagga Mussel is a species that has been spread by recreational boats and the damage caused to reservoir pumping equipment and to boats themselves is costly.



The Solution

This project will develop best practice guidance for boaters, enabling the sailing community to take effective measures to reduce the risk of spreading IAS when they move their boats to new areas. The guidance will reach sailors through World Sailing's 145 member nations and 115 member classes, ICOMIA's international marine industry and marina membership, and will benefit from IMO and IUCN's access to over 200 global experts on invasive alien species and biofouling, particularly through IUCN's SSC Invasive Species Specialist Group.

Developing user-friendly guidance founded in science and best practice will include a number of stages:

- Consulting with experts from within and across the networks of the partners, including World Sailing, IUCN's Invasive Species Specialist Group, ICOMIA, IMO and others to bring together existing biofouling guidance, drawing on best practice examples of guidance on other topics.
- Convening a day long workshop of leading staff members from World Sailing, IMO, IUCN and ICOMIA, with up to 20 leading scientists and experts. Bringing science, practical experience, network, influencers and policy makers together to direct and develop high-quality, science-based guidance which is actionable and applicable to the intended users.
- Bringing together guidance, with co-ordination and editing by IUCN Secretariat with input from external IUCN Invasive Species Specialist Group members, WS/ICOMIA and their members and other experts, to finalise the guidance.
- WS leading graphic design and video development to balance rigor and detail with usability and applicability, and translating these into at least 8 strategic languages to ensure we get suitable coverage in all key boating markets and high risk areas.

Promotion and integration

The aim is to launch best practice guidance resources (multilingual) at the September 2021 IUCN World Conservation Congress, the largest conservation event in the world held every four years. This event will be held in Marseille, a world-renowned sailing hub and the Paris 2024 Olympic sailing venue. This will signal the start of a global campaign to raise awareness among the sailing community.

The guidance will then be promoted at the other partners' key events, including World Sailing's Annual Conference in October 2020 (Abu Dhabi), and ICOMIA World Marina Conference November 2020 (Dubai). These events provide unique opportunity to reach thousands of members on stages targeting key audiences, and with press coverage afforded by being part of global conferences and forums.

The partners will then work together and with their networks to ensure the guidance is taken up and used by individuals and organisations across the recreational boating sector. This will include:

- World Sailing reaching out to its National Sailing Federations in 145 countries and 115 international boat Class Members
- ICOMIA reaching out to its global national marine industry association members
- Highlighting different language variations, the mix of available resources including pdf and video materials, and targeting specific key countries, territories and organisations such as marinas and sailing clubs in key locations
- Promoting best practice through media and social channels, with members and stakeholders doing the same
- Creating guidance to ensure that international sailing events have suitable biosecurity plans, and using larger WS special events to educate recreational sailors on the issue and assist in the distribution of best practice
- Specifically, we are targeting the guidance to be integrated into sail training and marina operative courses, giving practical guidelines and self assessment to identify risk areas. We will produce leaflets, posters and a digital campaign to educate the recreational boaters which will be distributed to clubs through the member national authority network. Posters for marinas and boatyards will be distributed through national marine industry federations

Success

THIS PROJECT AIMS TO:

- Raise awareness of the threat of invasive alien species and the role recreational vessels can play in their spread
- Provide practical, high-quality guidance targeted at recreational boaters and the wider marine community
- Encourage and enable boaters and other stakeholders to practice good boat cleaning to avoid the spread of invasive alien species
- Educate the marine infrastructure which influences sailors' ability to do the above creating a step change in approach from marinas and transient boats
- Ensure biosecurity is considered for all international regattas and special events
- To have relevant elements of the developed material used within international sail training courses
- Ensure educational guidance is mandated in World Sailing approved national training schemes. ICOMIA to ensure that marina operative training has invasive species topic embedded into professional training. With regulations minimal in most countries, the objective is to educate boat users and infrastructure operators on the subject

This project therefore ultimately aims to change behavior. We will monitor the impact and success of this work through a number of routes, including:

- Monitoring downloads of the materials from partners' websites
- Re-publication and mention of the guidance by key stakeholders, for example World Sailing MNAs, leading marina operators
- Coverage of the guidance and re-mentions by press and social media outlets
- Surveying of leading yacht clubs to assess members' and visitors' knowledge and awareness of this issue, and how that changes over time
- Surveying marine industries and in particular marinas on their knowledge and awareness of this issues
- Integration of training into professional courses for marina industry

The Partners

Together, the partners of this project have unique expertise to develop and distribute effective and feasible guidance. An international effort will ensure that boating activity is not unduly restricted and that the natural environment and biodiversity is not negatively impacted by boating due to a lack of education on the matter of biofouling and invasive alien species.

World Sailing Trust is a charity set up by World Sailing to increase access to sailing and protect the waters our sport depends on. This project forms part of its Marine Health work, which empowers the sailing community to protect our planet's waters. World Sailing Trust will lead this application, granting project funds to partners to complete the work via dedicated grant agreements.

World Sailing is the international federation for the sport, with 145 member national authorities, and an estimated 70 million participants globally utilizing a wide range of boats. This project contributes to World Sailing's Sustainability Agenda 2030, which is endorsed by all 145 World Sailing member nations.

International Union for Conservation of Nature (IUCN) is a membership union of government and civil society organisations. Recognized as the world's leading authority on conservation and biodiversity, IUCN is the perfect partner to provide the science on invasive alien species to underpin the mitigation measures and guidance.

International Council of Marine Industry Associations (ICOMIA) is the international trade association for the marine industry. With members from 37 countries, its working committees and membership collectively address industry issues across the world. ICOMIA guides the industry on environmental compliance and taking effective measures to reduce the risk of spreading IAS.

International Maritime Organization (IMO) is the United Nations' specialized agency for the safety and security of shipping and the prevention of marine and atmospheric pollution by ships. This project receives the support from the GloFouling Partnerships, a programme of work launched by IMO, in collaboration with the Global Environment Facility (GEF) and the United Nations Development Programme (UNDP), to identify solutions to reduce the introduction and spread of IAS through biofouling from all kinds of vessels and ships, including recreational boats.

Project Budget

Project total		Notes
Project Management	\$20,000	Project managing the coordination of the project development across all partners, coordinating activities, data collection, and reporting activities.
Workshop facilitation, travel, etc	\$49,000	Bringing together the 4 partners plus around 24 experts from across the partners' areas of expertise and providing a time and space to explore and develop the guidance content, format and promotion. The involvement of these key experts give the work solid scientific grounding and credibility, as well as further promotional networks.
Workshop hosting	\$2,000	Workshop to be hosted by one of the partners, eg IMO or WS in London headquarters, or at IUCN's Cambridge University Conservation Initiatives' David Attenborough Building.
Guidance development by IUCN with input from ICOMIA and WS	\$37,500	This includes producing a technical report to underpin the development of key recommendations and the building of user-friendly guidance for recreational boating audiences. This element of work will also include looking to countries with good guidance in place, and good penetration of adherence to guidance, for example the UK. The process of guidance development will include: 1. Pre workshop – through consultation with experts (from ISSG/WS/ICOMIA/IMO/Others) collate existing biofouling guidance, including guidance already developed through Glofouling programme for other vessels/industries/groups. 2. 2) Workshop – Review existing guidance, identifying aspects that work for recreational boaters to include in final guidance, as well as existing guidance that should be complemented and not replicated, alongside gaps to be filled 3. 3) Post workshop engaging with experts again to fill gaps, and collate all information into the best practice document(s) IUCN Secretariat will take a coordination and editing role for this work with input from external IUCN Invasive Species Specialist Group members, WS/ICOMIA and their members (esp. those that don't attend the workshop) and other experts.
Translations	\$5,000	In-kind translation services provided by IMO into eight languages.
Guideline design & graphics	\$23,000	Producing graphically-designed products for publication, focusing on accessibility and appeal to target users.
Guideline printing	\$5,000	In-kind document production for distribution.
Videos based on the headlines	\$33,500	Developing up to 15 videos to accompany the guidelines, enhancing accessibility, reach, and offering a range of media and resources for different platforms.
Campaign & implementation including tutorials, events	\$60,000	Launching the guidance at IUCN World Conservation Congress September 2021 (takes place every 4 years), World Sailing Annual Conference October 2021, ICOMIA World Marina Conference Autumn 2021. Alongside, the partners will promote guidance on their media and social media platforms, circulating to key international memberships, for example WS's Member National Authorities and Class members, and ICOMIA members throughout the marine industry. This element will also include collection and sharing of case studies and best practise
TOTAL	\$235,000	
Of which cash	\$225,000	
Of which in kind	\$10,000	



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