

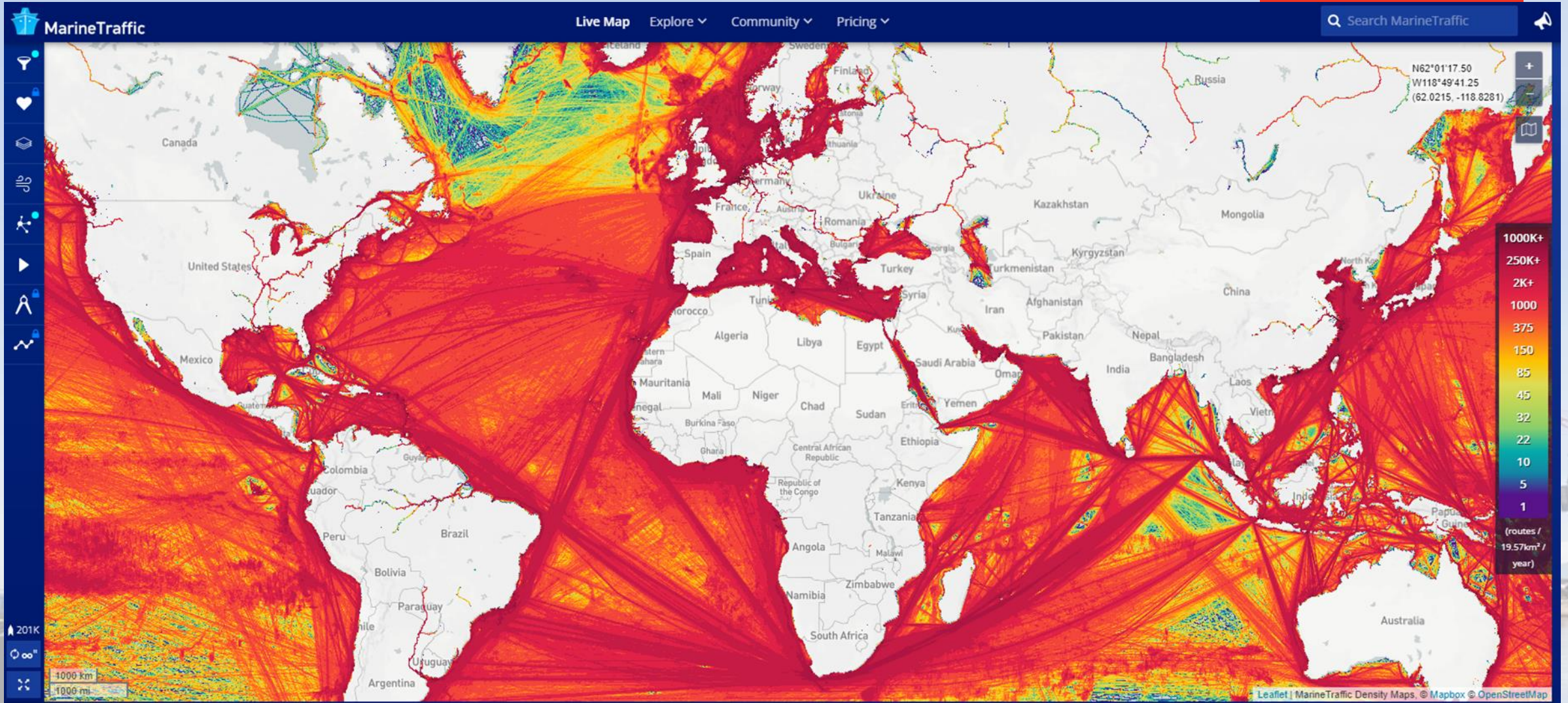
Practical Measures for Marine Biosecurity Management in a Port



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Picture: <https://www.marinetraffic.com/>

Ballast Water

- International legislation – IMO Ballast Water Management Convention
- Exchange standard - 95% exchange required
- Treatment standard <math><10</math> organisms per

Hull Fouling

- **Commercial vessels**
- **Recreational vessels**
- **May request antifouling certificate**
- **Vessel layup agreement**
- **May request specialist surveys**

Marine Litter



Recreational Users and Contractors

- Worked with The Angling Trust to install signs along the Manchester Ship Canal
- Biosecurity risk assessment and marine environmental checklist.



Case Study: Biosecurity Risk Assessment



- Maintenance dredge and disposal activities

dredging and disposal with contractors on site									
Activity	To assess the risks to port biosecurity associated with maintenance dredge and disposal activities.								
Reason for undertaking risk assessment	Peel Ports Group Ports								
Area covered by the risk assessment	30/10/2020								
Risk Assessment Review									
Does the Activity Involve ...	Hazard	Risk of activity			Examples of Risk Control Measures	Residual Risks with measures in place			
		Hazard Likelihood	Hazard severity of consequence	Risk Rating		New Likelihood	New Severity	New Risk Rating	
Transfer or movement of a vessel	Accidental or deliberate introduction of INNS into the Statutory Harbour Area if a vessel is heavily biofouled, live species or larvae may establish in another site.	4	5	20	<p>Relevant good practice measures should be put into place where practical, such as washing anchors and chains prior to vessels leaving their moorings to ensure invasive species are not inadvertently transferred.</p> <p>Where practicable, visual inspection of equipment should occur to check that there is no debris or visible evidence of INNS on the vessel, if present onboard treatment should take place. Particularly on dredger drag head and equipment - better if this has been dried since the last job so that any INNS present are dead before they arrive in the new dredge location. Particularly important if moving internationally and across water bodies</p>	3	3	9	
Capital and maintenance dredging and disposal	<p>Transfer of INNS propagules, eggs or organisms via equipment or via hopper water from national and international waterbodies where dredger has been operating previously.</p> <p>Lifting of equipment out of water may dislodge INNS</p> <p>Introduction of INNS into enclosed dock systems may mean dock is unable to be dredged in future if INNS establish, therefore the dock will not be fit for use by the port.</p> <p>Transfer of material from other sites containing INNS which if establish may affect the local environment and infrastructure. If INNS are contained in material transferred and establish PPG may have to finance their removal.</p>	4	5	20	<p>-Check, clean dry of equipment and flushing of the hopper tank before dredger enters the port jurisdiction.</p> <p>-For maintenance dredging a condition is included on the dredging contract to require operators to apply good practice to ensure relevant pieces of equipment are subject to check clean dry procedures.</p> <p>-A biosecurity risk assessment should be requested from the dredger in the contract. Possibly also an ecologist/watching brief on INNS presence during works.</p> <p>-Sediment characteristics of the dredge disposal receiving environment should also be considered to determine if it is similar to the dredge area. This may increase the likelihood of INNS being transferred from the dredge area and being able to establish in the disposal ground. If this is the case, where practicable, dredge disposal should attempt to take place in the same waterbody as dredging is taking place to prevent the establishment of INNS in another region.</p> <p>-Regular checks to ensure that good biosecurity practice is being followed.</p>	3	3	9	

Aspirations

- **Event permits - biosecurity requirements**
- **Group biosecurity plan developed**
- **Clean up floating debris around ports – prevent plastic rafting**
- **Raise awareness of biosecurity internally to encourage colleagues to report biosecurity risks and be mindful of measures to reduce these risks**