

FROM MARITIME TRANSPORT

AMBIENT NOISE

Propulsion



Hull flow Machinery

& disorientation

Stress

Flight of prey ► Masking
of communication signals



Reducing noise from propellers

Using innovative propellers

to avoid cavitation

from ship machinery Reducing the transmission

Reducing noise

of vibrations by

insulating engines

Improving hull design & maintenance

Optimising the shape of hulls to limit flow turbulence

Reducing ship speed Lowering the speed by a few knots



both Canada active very domestically and at the international level in efforts to reduce the noise of maritime traffic. Canada spearheads the subject within the International Maritime Organization (IMO).

The European Union tackled the subject of underwater noise in its 2008 **Marine Strategy Framework Directive**

The French State implements the MSFD by raising stakeholder awareness regarding underwater noise reduction objectives and measures for each



maritime coastline.

A HOT TOPIC FOR THE FRENCH MARITIME SECTOR

• The Blue Charter of Armateurs de France requires its signatories to contribute to noise reduction.

at IMO.

• French shipowners carry out acoustic signature measurements on their ships and invest in research and development concerning the reduction of propeller noise and the isolation of machinery.

(MSFD) and endorses, with the

support of France, Canada's initiative

It alread, exists!

Port of Vancouver **EcoAction Programme**

Since 2017, this programme has provided incentive measures for cargo and cruise ships that are the most quiet; they are rewarded with discounted harbour dues on arrival at the Port of Vancouver.







