

# ICES viewpoint on ‘Scrubber discharge water from ships – risks to the marine environment and recommendations to reduce impacts’

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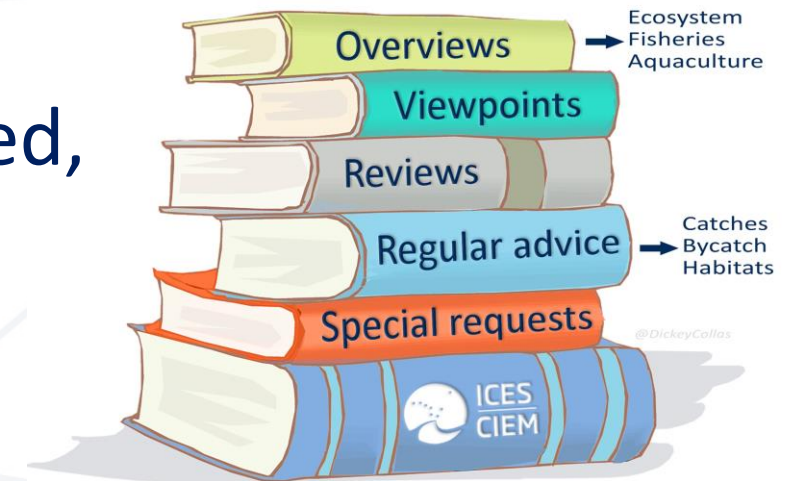


# ICES viewpoints



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Viewpoints allow ICES to highlight in a balanced, timely, and impartial way, the potential management and societal implications of maturing science in our network.



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# ICES advice principles



# ICES advice on ship scrubbers



- ICES recommends the use of cleaner low-sulphur fuels, such as marine gas oil, to eliminate scrubber use and associated impacts on the marine environment.
- Until this is possible, ICES proposes a set of mitigation measures.

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# Recommended mitigation measures (I)

The ideal course of action would be a rapid and complete transition to the use of cleaner low-sulphur fuels which can meet sulphur air emission limits without the use of scrubbers.

*Until the transition to the use of cleaner low-sulphur fuels is completed, avoid discharge of scrubber water to the marine environment.*



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# Recommended mitigation measures (II)

Until scrubber water discharge can be avoided:

- *ban discharges in specific areas,*
- *set and enforce stringent limits for contaminants in discharge water,*
- *ensure development of standards and protocols for measuring, monitoring, and reporting on scrubber discharge water for contaminants and other parameters.*

# Thank you



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