

Discussion: Criteria for appropriate method(s)

Bryan Comer, PhD
Researcher, Marine Program

4th ICCT Workshop on Marine BC
Washington, DC, USA
October 2017

The logo for the International Council on Clean Transportation (ICCT). It features the lowercase letters 'icct' in a bold, dark blue font. The letter 'i' has a small blue circle above it. Below the letters, the full name 'THE INTERNATIONAL COUNCIL ON CLEAN TRANSPORTATION' is written in a smaller, blue, all-caps font.

THE INTERNATIONAL COUNCIL
ON CLEAN TRANSPORTATION

Goal and some starter questions

- Goal: Agree on criteria for appropriate method(s) to measure marine BC
- Some potential criteria for methods/instruments:
 - ease of use; size; commercial availability; costs; reliability; repeatability; accuracy; precision; etc.
- Starter questions:
 - What criteria do researchers value?
 - What criteria do class societies value?
 - What criteria do policymakers value?
 - Are there overlaps?

List of consensus criteria

- Precise for potential certification/evaluation of control measures
- Accurate, useful for developing BC inventories
- Reliable/robust for typical marine engines and fuels
- Low system complexity
- Ease of use/practical
- Practical for measuring at the source:
 - Test bed
 - On-board
- Relevant international standard for marine engines
 - Already exists
 - Can be established or adapted
- Appropriate dynamic range
- Commercially available/viable
- Vetted and used by BC research community and marine industry