

c-core

INTELLIGENCE

CURIOSITY

PRACTICALITY

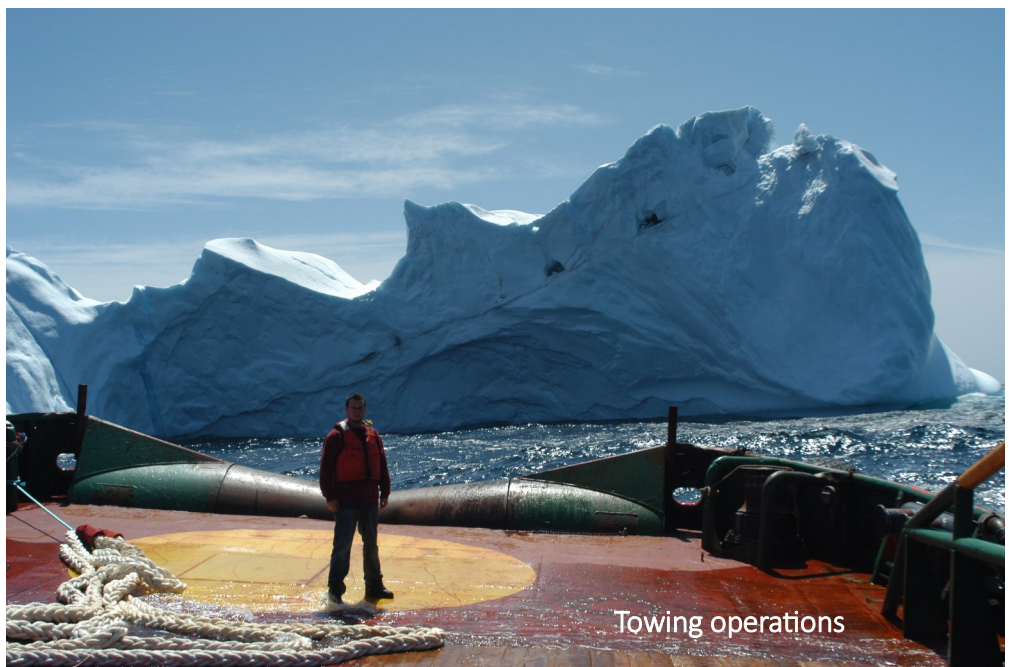
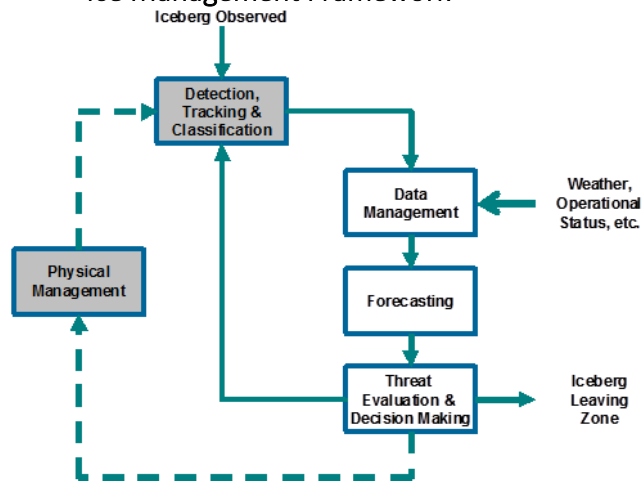


# Ice Engineering Expertise

## Ice Management Planning, Tools & Systems

C-CORE works to continuously improve and quantify ice management capabilities. Our comprehensive approach, driven by offshore oil and gas development, addresses the challenges presented by both icebergs and sea ice, and provides continuous improvements in detection, physical management (e.g. towing), operational implementation and assessment.

### Ice Management Framework



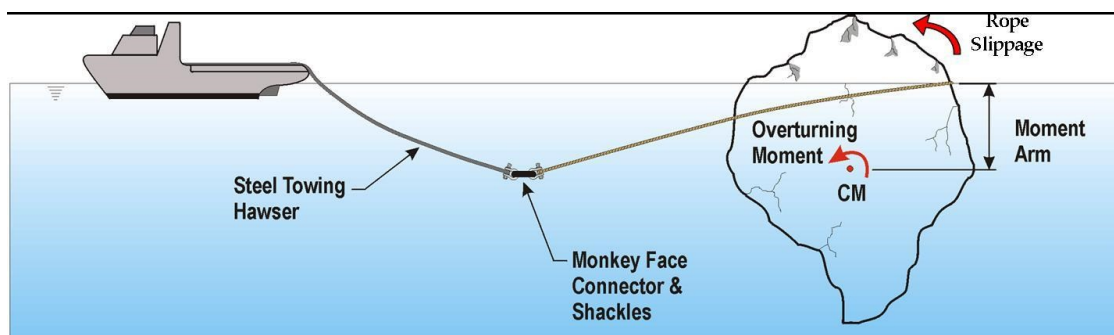
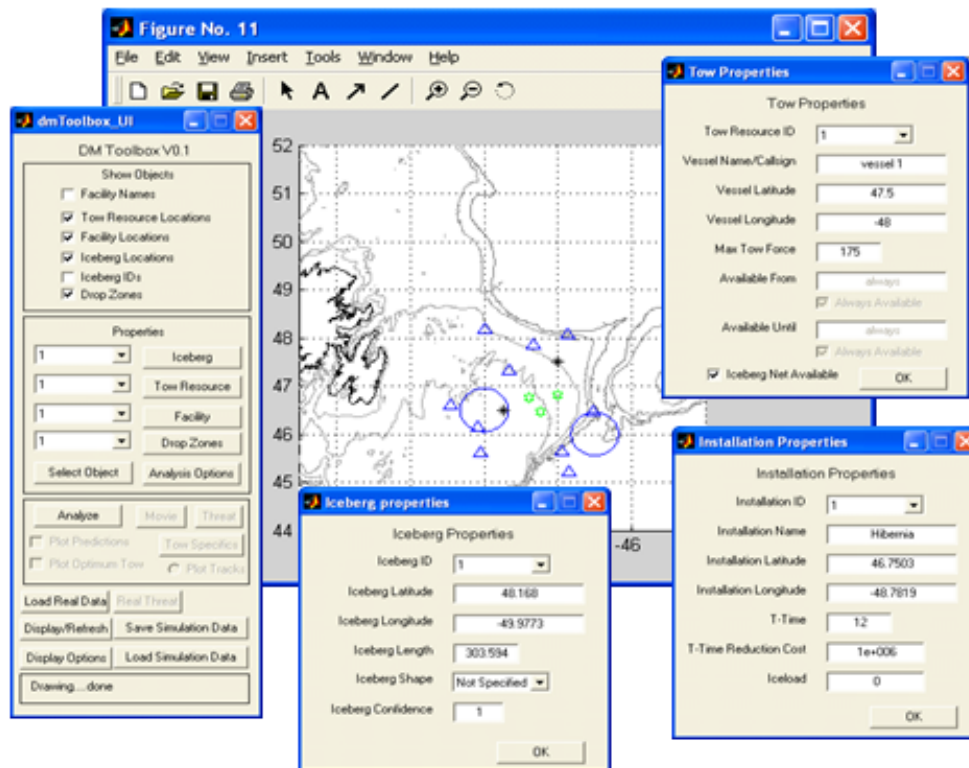
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## Ice Management Planning, Tools & Systems

Improvements in detection include a semi-automated satellite surveillance capability for ship and iceberg detection with up to 95% accuracy, ongoing performance analysis of available sensors and a framework for integrating all available data to provide the most up-to-date and accurate wide-area picture. Further improvements include forecasting of iceberg drift and deterioration.

Physical management advances include a practical, stow-able net to improve towing, revised towing protocols and a computer package to aid towing decisions. Improvements in ice management are quantified and implemented to demonstrably reduce downtime and vessel/infrastructure risk.

### Towing Decision Support Tool



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