

## **Request for Proposal**

**Scientific research vessel charter able to conduct a study on marine mammals and the potential impact(s) through ship-based oil spills for Fisheries and Oceans Canada (DFO) - Gulf of St. Lawrence**

### **Description:**

Fisheries and Oceans Canada (DFO) are seeking the availability of a research vessel charter (vessel and crew) to conduct and deliver a scientific mission(s) in the Gulf of St. Lawrence south of Anticosti Island along the New Brunswick, Prince Edward Island and Nova Scotia coastlines. This science mission is focused on 1) surveying North Atlantic Right Whale (NARW), the distribution and factors affecting the distribution of their prey; and 2) the potential impact to habitat through ship-based oil spills.

The requirement is for a research vessel charter (vessel and crew) for 28 days between 06 Aug 2019 and 03 Sept 2019. The vessel will mobilize in Rimouski, QC and will proceed to the research area (Gulf of St. Lawrence south of Anticosti Island along the New Brunswick, Prince Edward Island and Nova Scotia coastlines). The demobilization will happen in Rimouski, QC upon completion of the research mission.

**EVALUATION FORM – MANDATORY & STATEMENT OF WORK CRITERIA**

**MANDATORY CRITERIA**

<b>MANDATORY CRITERIA</b>	<b>Meets Criteria Y/N</b>	<b>BIDDER RESPONSE (response should make reference to the relevant proof in bidder proposal and/or appended documentation).</b>
<b>Vessel Certification and Documentation</b>		
<p><b>M1.</b> The Bidder must provide an unconditional and valid copy of the vessel's Transport Canada certificate <u>Minimum Safe Manning Document – Convention</u> with a Trading Area of Near Coastal Class 1, or international equivalent, for the duration of the contract. Compliance with this certification requirement is subject to verification by Canada during the bid evaluation period (certificate must be valid at time of bid closing) and after contract award (certificate must be valid for the duration of the contract).</p>		
<p><b>M2.</b> The Bidder must provide a valid copy of the vessel's Transport Canada (or recognized organization) Safety Management Certificate or international equivalent. Compliance with this certification requirement is subject to verification by Canada during the bid evaluation period (certificate must be valid at time of bid closing) and after contract award (certificate must be valid for the duration of the contract).</p>		
<p><b>M3.</b> The Bidder must provide a valid copy of the vessel's Transport Canada (or recognized organization) Safety Equipment Certificate or international equivalent. Compliance with this certification requirement is subject to verification by Canada during the bid evaluation period (certificate must be valid at time of bid closing) and after contract award (certificate must be valid for the duration of the contract).</p>		

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<b>M4.</b> The Bidder must provide documentation from an insurance broker, or an insurance company licensed to operate in Canada, stating that the Bidder, if awarded the contract as a result of the bid solicitation, can be insured in accordance with all conditions including Insurance Requirements.		
<b>M5.</b> The Bidder must provide proof (copy) that the Captain(s) of the vessel possesses a valid certificate of competency that meets or exceeds the operation for size (gross tonnage) of the vessel and the area of Work ( <i>Near Coastal Class 1</i> or international equivalent). Compliance with this certification requirement is subject to verification by Canada during the bid evaluation period (certificate must be valid at time of bid closing) and after contract award (certificate must be valid for the duration of the contract).		
<b>M6.</b> The Bidder must provide proof (copies of certificates) that all crew members have valid Marine Emergency Duty (MED) A1 certificates or Standard for Training, Certification and Watch keeping (STCW Basic Safety). Compliance with this certification requirement is subject to verification by Canada during the bid evaluation period (certificate must be valid at time of bid closing) and after contract award (certificate must be valid for the duration of the contract).		
<b>Vessel Particulars</b>		
<b>M7.</b> The Bidder must clearly demonstrate that the Vessel is equipped for continuous operations for a period of up to 28 days (e.g., endurance range of Vessel, provisions, water making system, etc.).		

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<p><b>M8.</b> The Bidder must clearly demonstrate that the Vessel can accommodate a minimum of 14 scientific personnel (individuals consisting of both genders) for the duration of the mission. This includes:</p> <p><b>M8.1</b> provide sleeping accommodations (minimum of 14 berths and max of 4 person/cabin);</p> <p><b>M8.2</b> provide a minimum of 3 on-board meals per day;</p> <p><b>M8.3</b> provide drinking water, toilets, sinks, showers and hot water.</p>		
<p><b>M9.</b> The Bidder must clearly demonstrate that the Vessel has sufficient lifesaving equipment for both the crew and all scientific personnel.</p>		
<b>Science Equipment</b>		
<p><b>M10.</b> The Bidder must clearly demonstrate that the Vessel is equipped with an oceanographic water-sampling system that consists of:</p> <p><b>M10.1</b> an oceanographic CTD-Rosette package (minimum 12 bottle 10L/bottle), or space to accommodate one provided by DFO.</p> <p><b>M10.2</b> Launch and Recovery System (LARS) - a marine crane or A-frame to launch and recover the CTD-Rosette package;</p> <p><b>M10.3</b> a winch with a minimum of 1000m (3200 ft) of electromechanical cable;</p> <p><b>M10.4</b> a metering block or sheave, and;</p> <p><b>M10.5</b> a dedicated work space of 2m x 2m on the working deck for handling the rosette before launching and for sampling water bottles upon its recovery.</p>		

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<p><b>M11.</b> The Bidder must clearly demonstrate that the Vessel is equipped with a Launch and Recovery System (LARS) to deploy and recover DFO towed system. The LARS would consist of:</p> <p><b>M11.1</b> An A-frame and/or marine crane;</p> <p><b>M11.2</b> a metering block or sheave;</p> <p><b>M11.3</b> a winch with 1200m (4000ft) of electromechanical cable (6 conductors).</p> <p>NOTE: If no winch is available, space must be provided to install a DFO supplied winch with the following specifications:</p> <ol style="list-style-type: none"> <li>1. winch base plate is 45.5in x 32in, and</li> <li>2. require 208/240V 1 phase, 15 Amp. Bidder should provide the General Arrangements of the Vessel and identify where the DFO winch would be installed.</li> </ol>		
<p><b>M12.</b> The Bidder must clearly demonstrate that the Vessel is equipped with a telescoping or knuckle boom marine crane and provide the specifications. DFO minimum requirements are:</p> <p><b>M12.1</b> a lift height over the vessel rail of 10 m;</p> <p><b>M12.2</b> an outboard scope of the side of the vessel of 2 m; and</p> <p><b>M12.3</b> a crane whip cable that reaches the waterline.</p>		
<p><b>M13.</b> The bidder must be able to demonstrate that the vessel has a minimum total deck space of 60 m<sup>2</sup> (645ft<sup>2</sup>) (not including the space required to fit the refrigerated container (Reefer) (see M15).</p>		
<b>Deck Requirements</b>		
<p><b>M14.</b> The bidder must demonstrate that the vessel is equipped with (or has a dedicated place on main deck for the setup of DFO) incubators. Space will need to be 4m<sup>2</sup> (40ft<sup>2</sup>).</p> <p><b>M14.1</b> The vessel must have a place to connect to clean sea water on the main deck to feed the incubators</p> <p><b>M14.2</b> Clean seawater for washing of nets.</p>		

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<p><b>M15.</b> The bidder must demonstrate that the vessel comes equipped with a (or have space to carry a DFO supplied) 6m (20ft) refrigerated container (Reefer). If the reefer is provided by DFO the vessel will have to ensure it will be able to provide:</p> <p><b>M15.1</b> 440v 30amp electrical power; and</p> <p><b>M15.2</b> a means of attaching the container to the deck.</p>		
<p><b>Science Ancillary Equipment and Space</b></p>		
<p><b>M16.</b> The bidder must demonstrate that the vessel has space to accommodate and deploy/recover a DFO supplied zodiac with the following specifications:</p> <ul style="list-style-type: none"> <li>• Zodiac Hurricane 590</li> <li>• Length 5.9m</li> <li>• Breadth 2.43m</li> <li>• Height 4m</li> <li>• Weight 664kg</li> </ul> <p><b>M16.1</b> The vessel must be able to launch and recover the boat up to a maximum Sea State of Beaufort 3.</p>		
<p><b>Lab Spaces</b></p>		

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<p><b>M17.</b> The Bidder must clearly demonstrate that the Vessel is equipped with either interior and/or containerized laboratory space on deck for sample processing with a total minimum area of lab space of 40m<sup>2</sup> (420ft<sup>2</sup>) and have:</p> <p><b>M17.1</b> bench space to accommodate water sample extraction/preparation;</p> <p><b>M17.2</b> a minimum of one (1) sink in the laboratory area: the sink will need to have both a freshwater supply and a clean seawater supply. The sink must have the ability to dispose of seawater;</p> <p><b>M17.3</b> one (1) certified fume hood;</p> <p><b>M17.4</b> equipped with a -80 °C and -20°C freezer with a minimum of 0.5m<sup>3</sup> (16 ft<sup>3</sup>) of storage space or have sufficient space to accommodate a DFO supplied -80°C and -20°C freezer of equivalent volume;</p> <p><b>M17.5</b> supply power to each lab;</p> <p><b>M17.6</b> access to a ship-wide Local Area Network (LAN) for connection of DFO computers. With access to NAV data (i.e. NMEA) with minimum strings being speed, position and speed;</p> <p><b>M17.7.</b> include a public address system and a means of communication (e.g., phone, UHF radio, etc.) in each lab; and</p>		
<p><b>M18.</b> A designated dry space for the storage and preparation of drones for whale observation. Minimum space required is 3m<sup>2</sup> (32ft<sup>2</sup>).</p>		
<p><b>M19.</b> The bidder must demonstrate that the vessel has a designated hazardous storage area for the storage of chemicals used on the mission. Science will need an area of 0.5m<sup>3</sup> (15ft<sup>3</sup>).</p>		
<b>Vessel Mounted Transducers</b>		
<p><b>M20.</b> The vessel must be fitted with a 150kHz hull mounted ADCP system that can be logged for the duration of the mission.</p> <p><b>M20.1</b> The vessel must have an EK60 (or EK80) transducer suite.</p>		

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<b>M21.</b> The Bidder must clearly demonstrate that the vessel is equipped with a hull mounted echosounder capable of deep water sounding to a depth of at least 1200 m with a graphical display and serial NMEA (National Marine Electronics Association) depth output.		