



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NF

A1C 5T2

Bid Fax: (709) 772-4603

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

PWGSC / TPSGC - Nfld. Region

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NF

A1C 5T2

Title - Sujet DFO - Deep-Sea Logger	
Solicitation No. - N° de l'invitation F6081-190040/A	Date 2019-12-12
Client Reference No. - N° de référence du client F6081-190040	
GETS Reference No. - N° de référence de SEAG PW-\$OLZ-010-7373	
File No. - N° de dossier OLZ-9-42118 (010)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-01-22	Time Zone Fuseau horaire Newfoundland Standard Time NST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Connolly, Carolyn	Buyer Id - Id de l'acheteur olz010
Telephone No. - N° de téléphone (709) 690-3778 ()	FAX No. - N° de FAX (709) 772-4603
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Northwest Atlantic Fisheries Centre (NAFC) 80 East White Hills Road P.O. Box 5667 St. John's, NL A1C 5X1	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Annex "A" of the resulting contract clauses.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2019-03-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Carolyn Connolly BA, MA
Supply Specialist
Public Services and Procurement Canada
The John Cabot Building
10 Barter's Hill, St. John's, NL A1C 5T2

or

Electronic submissions may be sent to:

PWGSC Bid Receiving Unit in Newfoundland and Labrador:

TPSGC.RAReceptionSoumissionsTNL-ARBidReceivingNL.PWGSC@tpsgc-pwgsc.gc.ca.

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

or

Facsimile submissions may be faxed to :

(709) 772-4603

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2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Newfoundland and Labrador.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)
Section II: Financial Bid (1 hard copy)
Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

Canada requests that bidders follow the format instructions described below in the preparation of hard copy of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

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Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “D” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “D” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Important: To be deemed responsive, bidders must meet the mandatory technical criteria. It is not acceptable to simply say your proposed product(s) meets each of the mandates. In a technical bid document, bidders must demonstrate how their product(s) meet each of the following:

- Please check (X) accordingly:

- Optional Wi-Fi communication.

Met _____ Not Met _____

- Depth rated for at least 3500 meters.

Met _____ Not Met _____

- Device must have at least 5 sensor ports.

Met _____ Not Met _____

- Device must be equipped with the following sensors; conductivity, temperature, pressure (depth), chlorophyll-a and dissolved oxygen.

Met _____ Not Met _____

4.1.2 Financial Evaluation

SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price – Canadian/Foreign Bidders

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause [A0031T](#) (2010-08-16), Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A", Specification.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date [Must be completed by offeror with bid submission]

All the deliverables must be received on or before 31 March 2020.

While delivery is requested for 31 March 2020, our best delivery date is: _____.

6.4.2 Delivery Points

Delivery of the requirement will be made to the delivery points specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Carolyn Connolly
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch, Atlantic Region
Science, Professional Services and Marine
The John Cabot Building, 10 Barter's Hill
P.O. Box 4600, St. John's, NL A1C 5T2

Telephone: (709) 690-3778

Facsimile: (709) 772-4603

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E-mail address: Carolyn.Connolly@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority

The Project Authority for the Contract will be named at Contract award.

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative [Must be completed by offeror with bid submission]

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____ ____ _____

Facsimile: _____

E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "A", Pricing for a cost of \$ _____ (inserted at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

6.6.3 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

6.6.4 SACC Manual Clauses

SACC Manual Clause C2000C (2007-11-30), Taxes – Foreign-Based Contractor

6.6.5 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card ();
- b. MasterCard Acquisition Card ();
- c. Direct Deposit (Domestic and International) ();
- d. Electronic Data Interchange (EDI) ();
- e. Wire Transfer (International Only) ().

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Newfoundland and Labrador.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2018-06-21) General Conditions: Goods (Medium Complexity);
- (c) Annex "A", Requirement/Specification & Pricing;

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- (d) Annex "B", Mandatory Requirements;
 - (e) Annex "C", Electronic Payment Instruments;
 - (f) Annex "D", Integrity Provisions;
 - (g) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: "*, as clarified on _____ *" or "*, as amended on _____ *" and insert date(s) of clarification(s) or amendment(s)*)

6.11 SACC Manual Clauses

SACC Manual clause B7500C (2006-06-16) Excess Goods

SACC Manual Clause A9068C (2010-01-11) Government Site Regulations

ANNEX "A"

REQUIREMENT/SPECIFICATION & PRICING

Requirement:

The Department of Fisheries and Oceans Canada require one (1) deep-sea biogeochemical logger (C.T.D) with sensors in St. John's, NL. Deep-sea biogeochemical loggers (C.T.D) that measure parameters such as temperature, depth, salinity, dissolved gases, pH and more, can be used to address knowledge gaps in waters >500m in NAFO zones 2G and 2H. These instruments can allow us to draw a link between the organisms we see with the ocean parameters of a particular habitat.

A detailed specification is attached and forms part of this annex.

IMPORTANT: In order to submit a bid, offerors must read/understand and be able to meet all the specifications listed in the attached Specification document, which forms part of this annex. In a technical bid document, bidders must demonstrate how their product meets the required specification. See Annex "B", which must be completed in full.

Goods to be delivered FOB Destination to:
Fisheries and Oceans Canada
80 East White Hills Road
P.O. Box 5667
St. John's, NL A1C 5X1
Attention: Sheena Roul

Pricing:

- Please provide pricing for all line items. Failure to do so will deem bid non-responsive.
- Prices do not include applicable taxes.
- **IMPORTANT NOTE TO BIDDERS:**
BIDDERS MUST COMPLETE THE UNIT PRICE TABLE BELOW. BIDDERS ARE NOT TO CREATE A SEPARATE PRICING TABLE. FAILURE TO COMPLETE THE PROVIDED UNIT PRICE TABLE WILL RENDER BID NON-COMPLIANT AND NO FURTHER CONSIDERATION WILL BE GIVEN.

Item #	Description	Quantity	Unit Price (Excluding HST)	Total Price (Excluding HST)
1	Deep-sea biogeochemical logger (C.T.D) and sensors, as per the attached specification, which forms part of this annex.	1 Unit	\$	\$
2	Delivery FOB Destination: Fisheries and Oceans Canada 80 East White Hills Road P.O. Box 5667 St. John's, NL A1C 5X1 Attention: Sheena Roul	1 Lot	\$	\$
			Total:	\$

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**ANNEX “B”
MANDATORY REQUIREMENTS**

[MUST BE COMPLETED BY OFFEROR WITH BID SUBMISSION]

Item	Description	Meets	Does Not Meet	Supporting Documentation (Page Number, Paragraph Number, etc.)
1	Optional Wi-Fi communication.			
2	Depth rated for at least 3500 meters.			
3	Device must have at least 5 sensor ports.			
4	Device must be equipped with the following sensors; conductivity, temperature, pressure (depth), chlorophyll-a and dissolved oxygen.			

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ANNEX "C"
ELECTRONIC PAYMENT INSTRUMENTS

The Offeror accepts to be paid by any of the following Electronic Payment Instrument(s):

- ☐ VISA Acquisition Card;
- ☐ MasterCard Acquisition Card;
- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only).

ANNEX "D"
INTEGRITY PROVISIONS – LIST OF NAMES

[MUST BE COMPLETED BY OFFEROR WITH BID SUBMISSION]

The Integrity Provision of General Conditions 2010 requires that bidders supply the following:

List of Names

- (a) Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s). Bidders bidding as societies, firms, or partnerships do not need to provide lists of names.
- (b) If the required list of names has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide the names within the time frame specified will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.
- (c) The Bidder must immediately inform Canada in writing of any changes affecting the list of names of directors during this procurement process.

Complete Legal Name of Company _____

PBN _____

List of names of the current Board of Directors or Owners:

November 29, 2019

Deep-Sea Oceanographic Logging Device (CTD) Technical Specifications

Background

The Minister of Fisheries, Oceans and the Canadian Coast Guard, announced the Government of Canada's commitment to put in place a plan to reach its domestic and international marine conservation targets of protecting 5 percent of Canada's marine and coastal areas by 2017 and 10 percent by 2020.

An area of focus for this plan is to designate large, offshore Marine Protected Areas (MPAs) under the Oceans Act. One candidate area identified that would meet these criteria is the off-shelf areas of the Labrador Sea (NAFO Zones 2G and 2H; Figure 1) within the Canadian Exclusive Economic Zone (EEZ). This frontier area is under limited resource development, particularly beyond the continental slope, where some commercial fishing is conducted. The scientific knowledge of this area's ecosystem is extremely limited, as the depths (>3,500m) extend well beyond the range typically monitored by DFO (e.g. the deepest RV survey sets only reach 1,500) and NAFO. Working at such extreme depths will require specialized equipment that is currently unavailable to us. Our research program, which is currently funded through 2020, was established to characterize the ecosystem of this area to support MPA designation decisions and subsequent management.

In addition to fish characterization, our project aims to address the gaps in oceanographic monitoring in the study area. The available oceanographic data is based on historical data and more recently on data collected by the Atlantic Zone Monitoring Program (AZMP) and the Atlantic Zone Offshore Monitoring Program (AZOMP) within the Labrador Sea Frontier Area and adjacent regions. This AZMP is primarily a shelf-based oceanographic monitoring program and it is still unclear whether the patterns in biogeochemical conditions observed on the shelf are consistent within the Labrador Sea Frontier Area.

Deep-sea biogeochemical loggers (C.T.D) that measure parameters such as temperature, depth, salinity, dissolved gases, pH and more, can be used to address knowledge gaps in waters >500m in NAFO

zones 2G and 2H. These instruments can allow us to draw a link between the organisms we see with the ocean parameters of a particular habitat. To meet our research objectives, we require:

- A compact device that can support a minimum of 5 sensors, sampling rate of 8Hz, and have optional Wi-Fi communication
- Sensors on the C.T.D must be rated for 3500m or greater
- Sensors required include but are not limited to; conductivity, temperature, pressure (depth), chlorophyll-a and dissolved oxygen

Additional details are provided below:

1. Logger

- Depth rated to minimum 3500m
- Sampling speed of 8hz or greater
- Titanium housing

2. Conductivity Sensor

- Depth rated to a minimum of 3500m

3. Temperature Sensor

- Depth rated to a minimum of 3500m

4. Depth Sensor

- Depth rated to a minimum of 3500m

5. Chlorophyll-a Sensor

- Depth rated to a minimum of 3500m

6. Dissolved Oxygen Sensor

- Depth rated to a minimum of 3500m