

# Frédéric Cyr | Ph.D.

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📄 [github.com/cyr0006](https://github.com/cyr0006)

*Canadian citizen, born 10 April 1984.*  
*Spoken and written languages: French (mother tongue) and English.*  
*Understand Spanish, Italian and Dutch.*  
*IT skills include Linux, Python, Matlab,  $\LaTeX$ , HTML.*

## Education

<b>Université du Québec à Rimouski (UQAR-ISMER)</b> <i>Ph.D. - Oceanography</i> Citation of Excellence	<b>Rimouski, Canada</b> 2009-2014
<b>Université de Versailles-St-Quentin-en-Yvelines</b> <i>M.Sc. - Climatology</i>	<b>Saclay, France</b> 2007-2008
<b>École Nationale Supérieure de Techniques Avancées (ENSTA-Paristech)</b> <i>M.Sc. - Environmental Engineering</i> Combined degree with École Polytechnique de Montréal	<b>Paris, France</b> 2006-2008
<b>École Polytechnique de Montréal</b> <i>B.Eng. - Engineering Physics</i> Citation of Excellence & International Profile	<b>Montréal, Canada</b> 2004-2008

## Work Experience

Research Positions.....	
<b>Fisheries and Oceans Canada, Northwest Atl. Fish. Centre (NAFC)</b> <i>Research Scientist</i> Multi-scale physical-biogeochemical interactions in the NW Atlantic ocean Report environmental conditions for the Atlantic Zone Monitoring Program ( <a href="#">AZMP</a> )	<b>St. John's, Canada</b> 2019-
<b>Fisheries and Oceans Canada, Northwest Atl. Fish. Centre (NAFC)</b> <i>Physical Scientist</i> Multi-scale physical-biogeochemical interactions in the NW Atlantic ocean Report environmental conditions for the Atlantic Zone Monitoring Program ( <a href="#">AZMP</a> )	<b>St. John's, Canada</b> 2017-2019
<b>Mediterranean Institute of Oceanography (MIO)</b> <i>Post-Doctoral research position (European project <a href="#">NeXOS</a>)</i> Development of a new glider optical sensor ( <i>MiniFluo-UV</i> ) Dissolved organic matter dynamics in NW Mediterranean Sea	<b>Marseille, France</b> 2016-2017

<b>Royal Netherlands Institute for Sea Research (NIOZ)</b> <i>Post-Doctoral Fellow (FRQNT funded, 2 years)</i> Mixing and biogeochemical exchanges caused by internal waves	<b>Texel, Netherlands</b> 2014-2015
<b>Fisheries and Oceans Canada, Maurice Lamontagne Institute</b> <i>Physical scientist (PC-2, 3-month contract)</i> Thermal fronts in Canadian Coastal Waters	<b>Mont-Joli, Canada</b> 2013

## Internships, Scientific Appointments and Other Training.....

<b>Bedford Institute of Oceanography</b> <i>Training on SeaExplorer glider (1-week course given by Alseamar)</i> Training with DFO SeaExplorer gliders	<b>Dartmouth, Canada</b> 2017
<b>Alseamar-Alcen</b> <i>Training on SeaExplorer glider (1-week course)</i> Learned how to work with SeaExplorer: Technology, deployment, piloting, maintenance, etc.	<b>Meyreuil, France</b> 2016
<b>Leibniz Institute for Baltic Sea Research, Warnemünde (IOW)</b> <i>Internal wave mixing in the Baltic Sea (5-week IOW grant)</i> Work on data from a scientific cruise in collaboration with the NIOZ	<b>Warnemünde, Germany</b> 2015
<b>Air-Sea Interaction Laboratory, University of Delaware</b> <i>Air-flow separation over wind waves (3-month FRQNT grant)</i> Built a platform to perform Particle Image Velocimetry (PIV) at sea Assisted PhD student M. Buckley in conducting PIV experiments above wind waves	<b>Lewes (DE), USA</b> 2012
<b>Université Laval</b> <i>Coupled modeling ocean-ice-biology in the Canadian Arctic (4-month)</i> Implemented ice-ridging scheme in numerical hydrodynamic model Performed particle-release simulations for off-line coupling with Individual-Based Model	<b>Québec, Canada</b> 2008
<b>Lab. de Glaciologie et Géophysique de l'Environnement</b> <i>Surface melting in Antarctica (2-month)</i> Detected surface melting events from remote sensing microwave observations Compared observed melting events and results from 1D/3D models of Antarctica	<b>Grenoble, France</b> 2007

## Teaching.....

<b>Cégep de Rimouski</b> <i>Teacher (college level)</i> W-2012: 982-003-50 - Science and Technology of the Environment (23 students) W-2011: 203-221-RK - General Physics (27 students)	<b>Rimouski, Canada</b> 2011-2012
<b>Université du Québec à Rimouski</b> <i>Lecturer</i> F-2010: MAT10309 - Calculus I (2 students)	<b>Rimouski, Canada</b> 2010
<b>Université du Québec à Rimouski</b> <i>Teaching Assistant</i> F-2010: Responsible for mathematics free revision periods (Engineering department) W-2010: Responsible for mathematics free revision periods (Engineering department) W-2010: SCE11106 - Mathematics Knowledge (15 students)	<b>Rimouski, Canada</b> 2010
<b>École Polyvalente des Îles</b> <i>High-school Teacher (3-month)</i>	<b>Îles de la Madeleine, Canada</b> 2009

Regular teacher in mathematics  
Frequent substitute teacher in other classes

## Grants, Scholarships and Awards

Research proposals.....	
DFO ACCASP proposal (\$143K; <i>pending, LOI successful</i> )	2018
Recent changes in the biogeochemistry of Northwest Atlantic water masses	
SOCIB-glider proposal ( <i>In-kind; successful</i> )	2018
Ship time and facility use during Pre-SWOT campaign (co-PI with A. Doglioli)	
DFO ACCASP proposal (\$27K; <i>successful</i> )	2017
Northwest Atlantic water masses biochemical modifications in a changing climate	

Grants, fellowships, etc.....	
IOW visiting grant (\$2,790)	2015
FRQNT Postdoctoral Fellowship (\$63,333)	2014-2016
FRQNT International Internship Award (\$6,700)	2012
UQAR Foundation grant (\$1,500)	2012
FRQNT Doctoral Research Scholarship (\$60,000)	2009-2012
Madeli-Aide Foundation, Excellence Scholarship (\$2,500)	2007
Grandes-Écoles Scholarship (\$9,000)	2006-2008
École Polytechnique de Montréal / ENSTA-Paristech combined degree	
Desjardins Foundation grant (\$1,000)	2005

Other Awards.....	
Giovanni Image Hall of Fame Distinction by NASA-GSFC (2017 class)	2018
A collection of outstanding figures using NASA Giovanni Portal data	
Québec-Science Magazine, among 10 discoveries of the year	2014
Bourgault et al. (2014), <i>Environ. Res. Lett.</i> , 9, 054001.	
Best-Talk Award, Québec-Océan Annual General Meeting, Rivière-du-Loup	2013
Congress Support, Rockland Scientific International	2011
Registration fees, Warnemünde Turbulence Days, Germany	
Best-Talk Award, Québec-Océan Annual General Meeting, Lac Delage	2010

## Research Experience

Field Work.....	
<b>2018:</b> Glider deployment in the Mediterranean Sea (Chief Scientist on glider deployment)	
14-day deployment during French-Spanish campaign Pre-SWOT (3-15 May, PIs: A. Pascual & A. D'Ovidio)	
Multidisciplinary horizontal fine-scales measurements	
Hydrocarbon concentrations in the Mediterranean Sea	

- 2017:** Atlantic Zone Monitoring Program, Fall Survey (Chief Scientist: S. Lewis)  
20-day cruise on board Furgro Discovery (8 - 28 July)
- 2017:** Multidisciplinary study centered around turbulence, Fortune Bay (co-lead with S. Donnet)  
5-day campaign near St. Pierre and Miquelon archipelago on small fishing boat (4-8 September)  
Microstructure profiler, bioacoustics and optical measurements  
Field trip in support of IFREMER campaign with R/V Antea (Chief Scientist: P. Lazure)
- 2017:** Atlantic Zone Monitoring Program, Spring Survey (Chief Scientist: E. Colbourne)  
17-day cruise on board CCGS Teleost (6 - 23 April)
- 2017:** Atlantic Zone Monitoring Program, Summer Survey (Chief Scientist: S. Lewis)  
20-day cruise on board CCGS Teleost (8 - 28 July)
- 2016:** Glider deployment in the North Sea (Chief Scientist)  
Monitoring dissolved hydrocarbons in proximity of Statoil's Troll field (12 Nov. - 3 Dec.)  
7-day cruise on board Norwegian supply vessel Havila Troll  
14-day glider deployment
- 2016:** 2 glider benchmark experiments (1-day each) (Chief Scientist & Glider Pilot)  
*in situ* calibration of optical sensor by comparison with water samples (July & October)
- 2016:** 10-day glider deployment in the NW-Mediterranean (Chief Scientist & Glider Pilot)  
Dissolved organic matter dynamics across the Northern Current (July-August)
- 2016:** 21-day glider deployment in the NW-Mediterranean (Chief Scientist & Glider Pilot)  
Survey of the Ligurian Sea to track an oil spill that occurred near Genoa on 23 April 2016
- 2016:** 2-day cruise on the Mediterranean aboard R/V Tethys II (Chief Scientist: Julien Fenouil)  
In situ tests with the Moving Vessel Profiler (MVP) in the Ligurian Sea
- 2016:** 19-day glider deployment in the Gulf of Lion, NW-Mediterranean (Chief Scientist)  
Dissolved organic matter dynamics between Marseille metropolitan area and offshore waters  
Deployment also in support of the [SeaQUEST](#) campaign (Chief Scientist: O. Ross)
- 2015:** 10-day OSCAHR campaign (Chief Scientist: A. Doglioli)  
Observing Submesoscale Coupling At High Resolution (OSCAHR), NW Mediterranean  
Was the ground-based scientist in charge of glider operations
- 2014:** 11-day cruise aboard R/V Pelagia (Chief Scientist: H. van Haren)  
3D-mooring deployment at Mount Josephine, North Atlantic near Portugal
- 2014:** 4-day field experiment in the Delaware Bay (Chief Scientist: M. Buckley)  
In situ measurements of the air-flow above wind waves from Particle Image Velocimetry (PIV)
- 2013:** 4-day cruise in the Gulf of St. Lawrence aboard R/V Coriolis II (Chief Scientist: U. Neumeier)  
Recovery and re-deployments of 4 moorings
- 2013:** 2-week campaign sampling internal waves in Saguenay Fjord (Chief Scientist: D. Bourgault)  
Deployment and recovery of a mooring from small boat  
Daily sampling (ADCP, CTD and time-lapse photography)
- 2012:** Field experiment in the St. Lawrence Estuary (Chief Scientist)  
3 opportunistic sorties (July-August)  
Over-wintering mooring recovery in the St. Lawrence Estuary
- 2012:** 2-day field experiment in the Delaware Bay (Chief Scientist: M. Buckley)  
In situ measurements of the air-flow above wind waves from Particle Image Velocimetry (PIV)
- 2011:** Field experiment in the St. Lawrence Estuary (Chief Scientist)  
18 opportunistic sorties (May-November)  
Deployment and recovery of two moorings and deployment of an over-wintering mooring  
Realization of a two-week experiment with two boats and a 5 people crew (7 sorties)

- 2011:** Field experiment in the Saguenay Fjord (Chief Scientist: D. Bourgault)  
Deployment of a mooring and CTD transect along the Fjord
- 2010:** Field experiment in the St. Lawrence Estuary (Chief Scientist)  
14 opportunistic sorties (May-October)  
Two-week experiment with two boats and a 6 people crew for simultaneous sampling (10 sorties)
- 2009:** Field experiment in the St. Lawrence Estuary (Chief Scientist)  
6 opportunistic sorties (July-August)  
Realization of a sampling experiment at the head of the Laurentian Channel (4 days)

<b>Training Highly Qualified Personnel.....</b>	
Ali Moridnejad (Post-doc), supervisor	2018
<i>Recent ocean conditions changes on Newfoundland and Labrador shelves (3-month)</i>	
Rémi Chassagne (Undergraduate), internship supervisor	2015
<i>Internal tides generation by topographically-trapped waves (3-month)</i>	
Camil Hamel (Undergraduate), internship co-supervisor with D. Bourgault	2011
<i>Turbulent nitrate fluxes in the Amundsen Gulf, part II (4-month)</i>	
Camil Hamel (Undergraduate), internship co-supervisor with D. Bourgault	2010
<i>Turbulent nitrate fluxes in the Amundsen Gulf, part I (4-month)</i>	

## Contributions to Research

- Refereed Publications.....**
- 2017:** Cyr, F., M. Tedetti, F. Besson, L. Beguery, A. M. Doglioli, A. A. Petrenko and M. Goutx, A new glider-compatible optical sensor for dissolved organic matter measurements: test case from the NW Mediterranean Sea, *Frontiers in Marine Science*, 4(89) [10.3389/fmars.2017.00089](https://doi.org/10.3389/fmars.2017.00089).
- 2016:** Dufour, K., F. Maps, S. Plourde, P. Joly and F. Cyr, Impacts of intraguild predation on Arctic copepod communities, *Frontiers in Marine Science*, 3(185) [10.3389/fmars.2016.00185](https://doi.org/10.3389/fmars.2016.00185).
- 2016:** van Haren, H., A. A. Cimadoribus, F. Cyr and L. Gostiaux, Insights from a 3-D temperature sensors mooring on stratified ocean turbulence, *Geophysical Research Letters*, 43(9), 4483-4489, [10.1002/2016GL068032](https://doi.org/10.1002/2016GL068032).
- 2016:** Cyr, F., H. van Haren, F. Mienis, G. Duineveld and D. Bourgault, On the influence of cold-water coral mound size on flow hydrodynamics, and vice-versa, *Geophysical Research Letters*, 43(2), 775-783, [doi:10.1002/2015GL067038](https://doi.org/10.1002/2015GL067038).
- 2016:** Cyr, F. and H. van Haren, Observations of small-scale secondary instabilities during the shoaling of internal bores on a deep-ocean slope, *Journal of Physical Oceanography*, 46(1), 219-231, [doi:10.1175/JPO-D-15-0059.1](https://doi.org/10.1175/JPO-D-15-0059.1).
- 2015:** Bourgault, D. and F. Cyr, Hypoxia in the St. Lawrence Estuary: How a Coding Error Led to Believe that "Physics Controls Spatial Patterns", *PLOS ONE*, 10(9):e0138858, [doi:10.1371/journal.pone.0138858](https://doi.org/10.1371/journal.pone.0138858).
- 2015:** Cyr, F., D. Bourgault, P. S. Galbraith and M. Gosselin, Turbulent nitrate fluxes in a large-scale estuary, *Journal of Geophysical Research-Oceans*, 120, 2308-2330, [doi:10.1002/2014JC010272](https://doi.org/10.1002/2014JC010272).
- 2015:** Cyr, F., D. Bourgault and P. S. Galbraith, Behavior and mixing of a cold intermediate layer above a sloping boundary, *Ocean Dynamics*, 65(3), p.357-374, [doi:10.1007/s10236-014-0799-1](https://doi.org/10.1007/s10236-014-0799-1).

- 2015:** Cyr, F. and P. Larouche, Thermal front atlas of Canadian coastal waters, *Atmosphere-Ocean*, 53(2) doi:10.1080/07055900.2014.986710.
- 2014:** Bourgault, D., F. Cyr, D. Dumont and A. Carter, Numerical simulations of the spread of floating passive tracer released at the Old Harry prospect, *Environmental Research Letters*, 9, 054001.
- 2012:** Bourgault, D., F. Cyr, P. S. Galbraith and E. Pelletier, Relative importance of pelagic and sediment respiration in causing hypoxia in a deep estuary, *Journal of Geophysical Research*, 117, C08033.
- 2011:** Cyr, F., D. Bourgault, and P. S. Galbraith, Interior versus boundary mixing of a cold intermediate layer, *Journal of Geophysical Research*, 116, C12029.
- 2011:** Bourgault D., C. Hamel, F. Cyr, J.-É. Tremblay, P. Galbraith, D. Dumont and Y. Gratton, Turbulent nitrate fluxes in the Amundsen Gulf during ice-covered conditions, *Geophysical Research Letters*, 38, L15602.

## Theses and Technical Reports.....

- 2014:** Cyr, F, *Mélange turbulent dans l'estuaire maritime du Saint-Laurent*, Ph.D. thesis, Université du Québec à Rimouski, 201 pp., Rimouski, Canada.
- 2008:** Cyr, F, *Modélisation couplée océan-glace-biologie dans l'Arctique Canadien*, M.Sc. report, ENSTA-Paristech / Université de Versailles-St-Quentin-en-Yvelines, 44 pp., Paris, France.
- 2007:** Cyr, F, *Fontes estivales en Antarctique: Comparaison entre observations et modèles météorologiques*, research report, Laboratoire de Glaciologie et Géophysique de l'Environnement, 30 pp., Grenoble, France.

## Selected Conferences and Abstracts.....

- 2018:** Cyr, F., J. Holden, E. Colbourne and P. Pepin, Newfoundland and Labrador waters: monitoring a crossroads of the world ocean circulation (ID:302915), Ocean Sciences Meeting, Portland, USA (Poster).
- 2018:** Cyr, F., M. Tedetti and M. Goutx, A new glider fluorescence sensor for monitoring dissolved aromatic hydrocarbons near offshore or industrial installations (ID:316607), Ocean Sciences Meeting, Portland, USA (Poster).
- 2018:** E. van der Lee, F. Cyr, M. Buckley, L. Umlauf and H. van Haren, Observations of high-frequency internal wave generation by Langmuir circulation (ID:305507) Ocean Sciences Meeting, Portland, USA (Poster).
- 2017:** Cyr, F., E. van der Lee, M. Buckley, A. Cimadoribus, H. van Haren, C. Lappe and L. Umlauf, High-resolution observations of wind-driven mixing in the Baltic Sea, The 49<sup>th</sup> Liège Colloquium on Ocean Dynamics and 8<sup>th</sup> Warnemünde Turbulence Days. Marine Turbulence Re3-visited, Liège, Belgium (Talk).
- 2017:** Cyr, F., M. Tedetti and M. Goutx, MiniFluo fluorescence sensor, advances in FDOM Ocean Measurements, European Geosciences Union (EGU) Annual General Meeting, Vienna, Austria (Poster).
- 2016:** Cyr, F., M. Tedetti and M. Goutx, Dissolved organic matter dynamics in the NW Mediterranean from a new glider optical sensor, The 7<sup>th</sup> EGO conference on autonomous ocean gliders and their applications, Southampton, U.K. (Talk).

**2016:** Cyr, F. , M. Goutx, N. Bhairy, M. Tedetti, F. Besson, M. Mery, A. Petrenko and A.M. Doglioli, Submesoscale dynamics of dissolved organic matter across the Northern Mediterranean Current revealed from a new glider-mounted optical sensor, The 48<sup>th</sup> International Liege Colloquium on Ocean Dynamics. Submesoscale Processes: Mechanisms, Implications And New Frontiers, Liège, Belgium (Poster).

**2016:** Doglioli, A.M., G. Grégori, M. Thyssen, T. Wagener, P. Marrec, G. Rougier, N. Bhairy, J. Fenouil, A. de Verneil, L. Rousselet, F. Cyr, A. A. Petrenko, J.-M. André, L. Berline, F. d'Ovidio, A. Pietri, F. Nencioli, L. Jullion, C. Pinazo, C. Yohia, P. Marsalaix, Mapping the planktonic community across submesoscale physical features: the 2015 OSCAHR cruise in the NW Mediterranean, The 48<sup>th</sup> International Liege Colloquium on Ocean Dynamics. Submesoscale Processes: Mechanisms, Implications And New Frontiers, Liège, Belgium (Talk).

**2016:** Cimatoribus, A, L. Gostiaux, F. Cyr and H. van Haren, NIOZ high-resolution moored temperature observations: benefits and new challenges, European Geosciences Union (EGU) Annual General Meeting, Vienna, Austria (Talk).

**2015:** Chassagne, R., F. Cyr, L. Maas, A. Cimatoribus, H. van Haren and D. Bourgault, On the fate of topographically-trapped internal tides, NewWave: New challenges in internal wave dynamics, Lyon, France (Talk).

**2015:** Cyr F., H. van Haren and D. Bourgault, Internal tides breaking and mixing efficiency over a deep-ocean sloping topography, 7th Warnemünde Turbulence Days, Insel Vilm, Germany (Talk).

**2015:** Cyr F. and H. van Haren, High-frequency internal-wave observations in the Baltic Sea, European Geosciences Union (EGU) Annual General Meeting, Vienna, Austria (Poster).

**2015:** Cyr F. and H. van Haren, On the efficiency of mixing above a deep sloping topography, European Geosciences Union (EGU) Annual General Meeting, Vienna, Austria (Talk).

**2015:** Cyr F. and H. van Haren, On the efficiency of turbulent mixing in the ocean: observations above a deep sloping topography, Turbulent mixing in stratified fluids - Symposium 567 of the European Mechanics Society, Cambridge, U.K. (Talk).

**2014:** Cyr F. and P. Larouche, Physical-biological relationships evaluated using remote sensing in the Hudson Bay complex, ArcticNet Annual Scientific Meeting, Ottawa, Canada (Poster).

**2014:** Cyr, F., D. Bourgault, P. S. Galbraith and M. Gosselin, Turbulent nitrate fluxes in a large-scale estuary, European Geosciences Union (EGU) Annual General Meeting, Vienna, Austria (Poster).

**2013:** Cyr F. and P. Larouche, A sea surface temperature fronts climatology of Baffin Bay, ArcticNet Annual Scientific Meeting, Halifax, Canada (Poster).

**2013:** Cyr, F., D. Bourgault, P. S. Galbraith and M. Gosselin, *Quantifier la "pompe à nutriments" du Saint-Laurent*, Québec-Océan Annual General Meeting, Rivière-du-Loup, Canada (Talk).

**2013:** Cyr F. and D. Bourgault, *Old Harry I: Compte rendu et revue critique des évaluations environnementales*, 81e congrès de l'ACFAS, Québec, Canada (Talk).

**2013:** Bourgault D. and F. Cyr, *Old Harry II: Résultats de simulations de la dispersion de déversement de polluants*, 81e congrès de l'ACFAS, Québec, Canada (Talk).

## Other Non-Refereed contributions.....

**2017:** Cyr, F., *A new glider-compatible optical sensor for dissolved organic matter measurements* (Seminar), 27 October 2017, Northwest Atl. Fish. Centre, St. John's (NL), Canada.

**2017:** Cyr, F., *On possible partnerships with Fisheries and Oceans Canada* (Invited talk), 14



September 2017, PLOCAN, Gran Canaria, Spain.

**2017:** Cyr, F., *Un duo capteur optique et planeur sous-marin pour une nouvelle génération de mesure in situ de la matière organique dissoute* (Seminar), 23 January 2017, Mediterranean Institute of Oceanography, Marseille, France.

**2017:** Cyr, F., Rockall Bank: Funky ocean physics, deep ocean mixing and cold water coral biogeochemistry (TRR 181 conference), 12 January 2017, University of Hamburg, Hamburg, Germany.

**2017:** Cyr, F., Presentation of a new glider-compatible optical sensor for measurements of fluorescent dissolved organic matter (Seminar), 11 January 2017, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany.

**2017:** Cyr, F., Rockall Bank: Funky ocean physics, deep ocean mixing and cold water coral biogeochemistry (Seminar), 11 January 2017, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany.

**2016:** Cyr, F., On trapped internal tides, deep ocean mixing and cold water coral biogeochemistry (Seminar), 23 August 2016, Laboratoire d'océanographie physique et spatiale, Brest, France.

**2016:** Cyr, F., Rockall Bank: where funky ocean's physics matters for the biogeochemistry, and vice-versa (Seminar), 19 January 2016, Northwest Atl. Fish. Centre, St. John's (NL), Canada.

**2015:** Cyr, F., Rockall Bank: a place with funky tides, where the biogeochemistry matters for the physics, and vice-versa (NIOZ Colloquium), 22 September 2015, Royal Netherlands Institute for Sea Research (NIOZ), Texel, Netherlands.

**2014:** Cyr, F., *Mélange turbulent dans l'estuaire maritime du Saint-Laurent* (Ph.D. defense), 27 March 2014, Institut des Sciences de la Mer, Université du Québec à Rimouski, Rimouski, Canada.

**2014:** Cyr, F., *Mélange turbulent dans l'estuaire maritime du Saint-Laurent* (Seminar), 24 March 2014, Université Laval, Québec, Canada.

**2014:** Cyr, F., Turbulent mixing in the Lower St. Lawrence Estuary (Seminar), 11 March 2014, Royal Netherlands Institute for Sea Research, 't Horntje, Netherlands.

**2014:** Bourgault, D., D. Dumont, F. Cyr and A. Carter (2014), Oil and gas exploitation in the Gulf of St. Lawrence: what role for government and university researchers?, CMOS Bulletin, **42** (1), 28-32.

**2014:** Bourgault D., F. Cyr, P. S. Galbraith and É. Pelletier, Hypoxia in the St. Lawrence Estuary, Québec-Océan Bulletin, **11**, 1-2.

**2013:** Cyr, F., *L'érosion de la couche intermédiaire froide: mélange aux frontières, marées internes et pompe à nutriments* (Seminar), 25 October 2013, Institut des Sciences de la Mer, Université du Québec à Rimouski, Rimouski, Canada.

**2013:** Cyr, F. and D. Bourgault, *Old Harry: Petite revue critique des évaluations environnementales et nouvelles simulations de dispersion d'un traceur passif* (joint seminar with D. Bourgault), 8 May 2013, Université Laval, Québec, Canada.

**2013:** Cyr, F. and D. Bourgault, *Old Harry: Petite revue critique des évaluations environnementales et nouvelles simulations de dispersion d'un traceur passif* (joint seminar with D. Bourgault), Midis des sciences naturelles, 24 April 2013, Université du Québec à Rimouski, Rimouski, Canada.

## Contributions related to DFO mandate.....

**2018:** Cyr, F. & NAFC Oceanography Section, Physical Oceanographic Environment on the NL Shelf in 2017, AZMP annual meeting, 20-23 March, Montreal, Canada (Talk).



**2018:** Cyr, F., A. Moridnejad & P. Pepin, Recent changes in Newfoundland and Labrador waters I: A dive into 7 decades of oceanic observations, AZMP annual meeting, 20-23 March, Montreal, Canada (Talk).

**2018:** Moridnejad, A., F. Cyr & P. Pepin, Recent changes in Newfoundland and Labrador waters II: On the low frequency variability of the NW Atlantic, AZMP annual meeting, 20-23 March, Montreal, Canada (Talk).

## Archived Data and Software development.....

**2016:** Contributed to the [SOCIB Glider Toolbox](#) by adding the SeaExplorer glider case.

**2014:** All turbulence profiles from my PhD (1762) were processed and submitted for archiving in the Ocean Data Management System ([ODMS](#)) on the St. Lawrence Global Observatory ([SLGO](#)) portal. I have developed the archiving format since this type of data was new for the ODMS/SLGO.

**2009-2014:** Developed a *Matlab* library to process data from Vertical Microstructure Profilers (VMP)

## Selected Media Appearances.....

**2014:** TV journalists help scientists confirm oil-spill model, [EnvironmentalResearchWeb.org](#) ([IOP Publishing community website](#))

**2014:** Oceanography study examines risks of Old Harry development, *The Telegram* ([Newspaper](#))

**2014:** Lessons from the whales, *Western Star* ([Newspaper](#), [open letter](#))

**2014:** *Une marée noire dans le golfe risquerait de frapper les îles de la Madeleine*, *Le Devoir* ([Newspaper](#))

**2014:** *Un déversement à Old Harry menacerait tout l'est du golfe*, *Le Soleil* ([Newspaper](#))

**2013:** *Info-Réveil*, Radio-Canada (Radio interview, 2013-05-07)

**2013:** *Old Harry: des simulations de déversement jugées trop optimistes*, *Le Soleil* ([Newspaper](#))

**2013:** *Radio-Canada cet après-midi*, Radio-Canada (Radio interview, 2013-05-06)

**2013:** *Pourquoi l'eau de baignade est-elle si froide à Rimouski?*, *UQAR-Info* ([Newsletter](#))