

Frédéric Cyr | Ph.D.

Northwest Atlantic Fisheries Centre (NAFC)

Fisheries and Oceans Canada, 80 East White Hills Rd. P.O Box 5667, St. John's, NL
A1C 5X1 Canada.

✉ +1 709-772-6106 • ✉ Frederic.Cyr@dfo-mpo.gc.ca

🌐 <https://cyrf0006.github.io/> • 🐦 twitter.com/cyrf0006

⌚ github.com/cyrf0006

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, L^AT_EX, HTML.

Education

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

Work Experience

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

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

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

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

Teaching.....

Cégep de Rimouski	Rimouski, Canada
<i>Teacher (college level)</i>	<i>2011-2012</i>
W-2012: 982-003-50 - Science and Technology of the Environment (23 students)	
W-2011: 203-221-RK - General Physics (27 students)	
Université du Québec à Rimouski	Rimouski, Canada
<i>Lecturer</i>	<i>2010</i>
F-2010: MAT10309 - Calculus I (2 students)	
Université du Québec à Rimouski	Rimouski, Canada
<i>Teaching Assistant</i>	<i>2010</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)	
École Polyvalente des Iles	Iles de la Madeleine, Canada
<i>High-school Teacher (3-month)</i>	<i>2009</i>

Regular teacher in mathematics
Frequent substitute teacher in other classes

Academic Services

Training HQP.....

PhD committee member , Fernando Sobral, Dalhousie University (Halifax)	Since 2019
<i>High-resolution numerical modeling of the Labrador shelf</i> (preliminary title)	
Postdoc advisor , Olivia Gibb, DFO-NAFC (St. John's)	Since 2018
<i>Ocean acidification and biogeochemical changes in the Atlantic Zone</i> (18-month)	
Postdoc advisor , Ali Moridnejad, DFO-NAFC (St. John's)	2018
<i>Recent ocean conditions changes on Newfoundland and Labrador shelves</i> (3-month)	
Internship supervisor , Rémi Chassagne (Undergraduate)	2015
<i>Internal tides generation by topographically-trapped waves</i> (3-month)	
Internship co-supervisor , Camil Hamel (Undergraduate), ISMER-UQAR (Rimouski)	2011
<i>Turbulent nitrate fluxes in the Amundsen Gulf</i> , part II (4-month)	
Internship co-supervisor , Camil Hamel (Undergraduate), ISMER-UQAR (Rimouski)	2010
<i>Turbulent nitrate fluxes in the Amundsen Gulf</i> , part I (4-month)	

Examiner roles.....

MSc external examiner , Nicolai von Oppeln-Bronikowski, MUN (St. John's)	2019
<i>Glider-Based O₂ and CO₂ Observations in the Labrador Sea</i>	
MSc external examiner , Jean-Luc Shaw, ISMER-UQAR (Rimouski)	2019
<i>Hydrodynamique de la Baie de Sept-Îles</i>	

Editorial role.....

Associate Editor	Since 2018
<i>Frontiers in Marine Science - Physical Oceanography.</i>	

Funded Research

DFO glider proposal	~\$30K (<i>in-kind</i>)
<i>Variability of the circulation on the Newfoundland shelf</i>	2019
Lead PI	
Multi-partner Oil Spill Research Initiative (MPRI) Research Proposal	\$1.38M
<i>Oil spill reconnaissance through robotic autonomous underwater vehicle</i>	2018-2022
Advisor on Lewis et al.	
DFO ACCASP proposal	\$143K
<i>Recent changes in the biogeochemistry of Northwest Atlantic water masses</i>	2018-2020
Lead PI	
Ocean Frontier Institute Seed Fund Proposal	\$14.3K
<i>Monitor Placentia Bay for hydrocarbons using underwater gliders</i>	2018-2019
Collaborator on Lewis et al.	

INSU 2018 - Océan-Atmosphère Section	~\$11.5K)
<i>Lagrangian observations of deep ocean circulation in the NW Atlantic</i>	2018-2019
Collaborator on Desbruyeres et al.	
SOCIB glider proposal	~\$3.5K (<i>in-kind</i>)
<i>Ship time and facility use during Pre-SWOT campaign</i>	2018
co-PI with A. Doglioli	
DFO glider proposal	~\$10K (<i>in-kind</i>)
<i>Variability of the Inner Labrador Current on the Newfoundland and Labrador shelf</i>	2018
Lead PI	
DFO ACCASP proposal	\$27K
<i>Northwest Atlantic water masses biochemical modifications in a changing climate</i>	2018
Lead PI	
FRQNT Postdoctoral Fellowship	\$63.3K
<i>Internal waves and vertical exchanges in the ocean</i>	2014-2015
Main applicant	
FRQNT Doctoral Research Scholarship	\$60K
<i>Turbulent mixing in the lower St. Lawrence Estuary</i>	2009-2012
Main applicant	

Scholarships and Awards

Grants, fellowships, etc.....	
Mourou/Strickland Mobility Program (~\$2000)	2019
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) École Polytechnique de Montréal / ENSTA-ParisTech combined degree	2006-2008
Desjardins Foundation grant (\$1,000)	2005

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

Contributions to Research

- Field Work.....**
- 2018:** 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-led 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. Lazare)
- 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)

Peer-Reviewed Publications.....

- 2019:** d'Ovidio, F., A. Pascual, J. Wang, A. Doglioli, J. Zhao, S. Moreau, G. Gregory, S. Swaart, S. Speich, F. Cyr, B. Legresy, Y. Chao, L. Fu, & R. A. Morrow, Frontiers in fine scale in-situ studies: opportunities during the SWOT fast sampling phase, *Frontiers in Marine Science*, [10.3389/fmars.2019.00168](https://doi.org/10.3389/fmars.2019.00168).
- 2019:** Cyr, F., M. Tedetti, F. Besson, N. Bhairy & M. Goutx, A new glider-compatible fluorometer for the detection of polycyclic aromatic hydrocarbons in the marine environment, *Frontiers in Marine Science*, [10.3389/fmars.2019.00110](https://doi.org/10.3389/fmars.2019.00110).
- 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. Cimatoribus, 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. Cimatoribus, H. van Haren, C. Lappe and L. Umlauf, High-resolution observations of wind-driven mixing in the Baltic Sea, The 49th Liège Colloquium on Ocean Dynamics and 8th 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 7th 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 48th 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 48th 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](#))