

# Quarterly Project Report

## 1. Team Identification

Project Team:

Budget Year:

Quarter:

## 2. Scope - Highlights of the Period

Person Days:

### Accomplishments

- approval to conduct the same field work next year, approval to keep the same funds as those supposed this year
- Acquisition of the required license for the CMO expedition in October
- Submission of official ship time request to Amundsen Science for the 2018 BaySys expedition
- Submission of the Mobilization Cost to the CG with the help of Amundsen Science, formal approval from them to recover the 100% cost is to obtain soon
- Obtained an extension to submit the NSERC report (push back to Dec 1st, when we will know the CC reimbursement)
- Important progress in planning the October BaySys/CMO expedition to turn over the moorings (booked a charter, acquired train wheels,
- Assisted to T2-T6 meeting and T5 monthly meeting, CMO expedition planning meeting
- Submission of an abstract for Arctic Change Conference (ArcticNet) and Arctic Frontiers
- Undergoing work towards data management strategies, newsletters, and monthly meetings minutes storage strategies
- Obtained approval (yet to be sent to partners) to carry on the NSERC budget
- Presentation to the Province of Manitoba on the BaySys Project.

### Missed Targets

- Field report of Nanuk has not been submitted yet.
- The Gantt project document hasn't been updated with the new tasks numbers.
- The NSERC report is not due until Dec 1st, but it will take time and it will coincide with the SSC/RAC meeting. Also, there are new tasks added to the coordinator position at the university side (plan quarterly meetings, create newsletters, assist with data management). Therefore, I will need help; moving forward, Lauren Candlish will assist me with the coordination on the university side.

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
57	Task 0.3 Student Recruitment	100	
58	Task 0.4 Field Mobilization	80	
59	Task 0.5 Field Data Acquisition and Pr...	45	

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
15	Far-field runoff for NEMO modelling	T2 has provided data to T6 for the extended doma

## 5. Budget Information

### CURRENT QUARTER SPENDING

Amounts are the cumulative totals to the end of the reporting period.

#### 1. Salaries and Benefits

<i>a) Graduate Students</i>		
<i>b) PDF's</i>		
<i>c) Technical Staff</i>		

#### 2. Equipment or Facility

<i>a) Purchase or Rental</i>		
<i>b) Operations and Maintenance Cost</i>		

#### 3. Materials and Supplies

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#### 4. Travel Expenses

<i>a) Conferences</i>		
<i>b) Field Work</i>		
<i>c) Project Related Travel</i>		
<i>d) Central Planning Meetings</i>		

#### 5. Dissemination Costs


<i>Total</i>	\$0	
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### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
<i>Total</i>	\$0	

Organization	Contribution	Description
<b>Total</b>		<b>\$0</b>

## 6. Budget Explanation

<i>Budget Statement</i>	no deviation
<i>Cash Contributions</i>	
<i>Expenditure Tracking</i>	 Click here to attach a file

## 7. Research Team

Team Member	Overview of Participation and Scientific Contributions
David Barber	Project University PI and management
Claire Herbert	Data management technician
Nathalie Theriault	University Coordinator
Yanique Campbell	Student
Kevin Sydor	Project Hydro PI and management
Michael Morris	Hydro Coordinator

## 8. Other

Please provide any additional information/comments as required.

[<< Reasearch Team](#)

*Before submitting the form, please confirm that the information contained in this report is complete and accurate to the best of your knowledge.*

*Upon clicking submit the report will be saved as:*

BaySys Quarterly Status Report - Project Coordinators 2017 Q4

**Submit**

*It will then automatically be sent for review and approval by the project team.*

*Txt Report Status:*

Draft In Progress



# Quarterly Project Report

## 1. Team Identification

*Project Team:* Marine and Climate System ▼

*Budget Year:* 2017

*Quarter:* Q4

## 2. Scope - Highlights of the Period

*Person Days:* 0

*Accomplishments* Team 2 and Team 6 have met in the past quarter to address and resolve issues pertaining to NEMO domain size, far-field runoff and atmospheric forcing. Team 2 and Team 6 leads and modellers are currently in the process of and have made significant progress in the past month in resolving these issues.

*Missed Targets* Simulations have yet to be launched, and will begin once aforementioned issues are resolved and relevant input (runoff and atmospheric forcing) that ensures consistency between Teams 2 and 6 determined.

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
34	Task 1.5, Phase 1 NEMO Modeling of f...	30	Progress has been made in addressing far-field ru

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
8	Consider including additional CMIP5 simulation for pro	An additional CMIP5 simulation has been selected
15	Far-field runoff for NEMO modelling	The NEMO domain and far-field runoff for NEMO

## 5. Budget Information

### CURRENT QUARTER SPENDING

Amounts are the cumulative totals to the end of the reporting period.


#### 1. Salaries and Benefits

a) Graduate Students	\$0	N/A
b) PDF's	\$0	N/A
c) Technical Staff	\$0	N/A
<b>2. Equipment or Facility</b>		
a) Purchase or Rental	\$0	N/A
b) Operations and Maintenance Cost	\$0	N/A
<b>3. Materials and Supplies</b>	\$0	N/A
<b>4. Travel Expenses</b>		
a) Conferences	\$0	N/A
b) Field Work	\$0	N/A
c) Project Related Travel	\$0	N/A
d) Central Planning Meetings	\$0	N/A
<b>5. Dissemination Costs</b>	\$0	N/A
<b>Total</b>	<b>\$0</b>	

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

Organization	Contribution	Description
<b>Total</b>		<b>\$0</b>

## 6. Budget Explanation

<i>Budget Statement</i>	No new budget attributed to T6, budget of T6 salaries is still under T1
<i>Cash Contributions</i>	
<i>Expenditure Tracking</i>	 <a href="#">Click here to attach a file</a>

## 7. Research Team

Team Member	Overview of Participation and Scientific Contributions
Paul Myers	Team 6 academic co-lead and NEMO modeller, Professor at the University o...
Natasha Ridenour	PhD student (UofA) whose research project entails improved understanding...
Shabnam Jarfarikhasragh	PhD student (UofA) whose research project entails improved understanding...
Jennifer Lukovich	Team 6 academic co-lead and coordinator for modelling initiatives, research...
Kevin Sydor	Team 6 Manitoba Hydro co-lead with expertise in hydrological processes an...

## 8. Other

Please provide any additional information/comments as required.

[<< Reasearch Team](#)

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*Upon clicking submit the report will be saved as:*

BaySys Quarterly Status Report - Marine and Climate System 2017 Q4

**Submit**

*It will then automatically be sent for review and approval by the project team.*

*Txt Report Status:*

Draft In Progress





# Quarterly Project Report

## 1. Team Identification

*Project Team:* Marine and Climate System ▼

*Budget Year:* 2017

*Quarter:* Q4

## 2. Scope - Highlights of the Period

*Person Days:* 0

### *Accomplishments*

- Planning and mobilization for Fall cruise onboard White Diamond. Equipment have been shipped to PEI from where the ship is planned to will leave on October 1. The planned cruise will go down to James Bay from where the first mooring will be recovered. Then to Nelson estuary to recover the 3 moorings, and finally to offshore mooring northeast of Churchill. Mooring operations are a priority, however, time permitting CTD profiling and water sampling will be conducted. Team 1 members onboard will be Sergei Kirillov, Vlad Petrusovich and Chris Peck (who will assisting with moorings and mainly Team 4 work). Water sampling on behalf of Team 1 will also be conducted by Dave Capelle and Kathleen Munson (Salinity, O-18, and CDOM).
- Doctoral student Atreya Basu was selected for a Sentinel-EUMETSAT bursary to attend the Ocean Colour training course at Plymouth Marine Laboratory from 18 to 22 September 2017. Apart for his visa application trip to Toronto, this bursary paid for his trip to this workshop. There he presented BaySys results on separation of SPM and CDOM in remote sensing imagery.
- Numerous submission of abstracts to the ArcticNet Arctic Change 2017 meeting to be held in Quebec City in December.
- Presentation to Niskamoon Corporation (Cree/Hydro Quebec) on Hudson Bay research including Baysys on 28 August (Ehn).
- Barber: Student committee meetings of Shabnam, Yanique, Madison, and Nathalie Ridenour at U of A.
- Ehn: Student committee meetings of Yanique, Atreya and Vlad.
- Preparation of Data from the fall 2016 and winter 2017 field experiments, data Q and A, and preparation for analysis.

### *Missed Targets*

Fieldwork:  
-The spring/summer field observations in Hudson Bay were a missed target, as the cruise was cancelled.

### 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
30	Task 1.1 Winter estuarine survey	50	data collection completed, analysis and documen
33	Task 1.4 Remote sensing	30	Optical remote sensing task on separating CDOM
31	Task 1.2 Spring/summer survey	0	no progress since cruise cancellation
32	Task 1.3 Moorings	10	Deployed, awaiting recovery

### 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>

### 5. Budget Information

#### CURRENT QUARTER SPENDING

Amounts are the cumulative totals to the end of the reporting period.

#### 1. Salaries and Benefits

<i>a) Graduate Students</i>	\$45,206.41	Campbell, Petrusevich, Basu
<i>b) PDF's</i>	\$71,351.32	Lukovich
<i>c) Technical Staff</i>	\$0	

#### 2. Equipment or Facility

<i>a) Purchase or Rental</i>	\$11,431	no new additions
<i>b) Operations and Maintenance Cost</i>	\$8,435.29	\$407.29 for Sutron transmission costs

#### 3. Materials and Supplies

	\$9,355.82	no new additions
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#### 4. Travel Expenses

<i>a) Conferences</i>	\$522	no additions
<i>b) Field Work</i>	\$44,029.48	\$2,819.46 for Amundsen mob/demob claims
<i>c) Project Related Travel</i>	\$1,100	travel by U. Alberta team
<i>d) Central Planning Meetings</i>	\$0	

#### 5. Dissemination Costs


	\$0	
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**Total**      **\$191,431.32**

## OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
U. Manitoba	228,375	U. Manitoba: 30% of 4 salaries (Dmitrenko, Ogi, Ba
U. Alberta	25,880	U. Alberta: 10% of the time of my modelling RA wh
<b>Total</b>	<b>\$254,255</b>	

## 6. Budget Explanation

<i>Budget Statement</i>	
<i>Cash Contributions</i>	
<i>Expenditure Tracking</i>	 <a href="#">July - September 2017.pdf</a> 66.44 KB

## 7. Research Team

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
David Barber	Project management, student & RA supervision
Jens Ehn	Team lead since January 2016, field program planning, student recruitment,...
Michael Morris	Team co-lead, review of project work plan, participate in team updates and ...
David Babb	Sea ice dynamics, field program planning and coordination (non-Baysys fun...
Greg McCullough	Former team lead, field program planning; assisting with student supervisio...
Jennifer Lukovich	Assisting in coordination, supervision and support for NEMO modelers and ...
Paul Myers	NEMO modelling, student supervision
Igor Dmitrenko	Field program planning, moorings design, student recruitment (non-Baysys ...
Simon Belanger	Student supervision, remote sensing of freshwater tracers and optical prop...
Sergei Kirillov	Assisting in moorings design, physical oceanography, and analysis of NEMO ...
Wayne Chan	Computer support for modeling team (non-BaySys funding)
Shabnam Jarfarikhasragh	Validation of NEMO ice and ocean parameters at CEOS, with emphasis on t...
Natasha Ridenour	Validation and evaluation of NEMO at UofA, with a focus on freshwater dyn...
Nathalie Theriault	Research using remote sensing to investigate climate-ice relationships. Met...
Masayo Ogi	Research into teleconnections between Arctic and Temperate climate, with ...
Vlad Petrusevich	PhD research into tidal driven processes in Nelson estuary and in Hudson B...
Atreya Basu	PhD research into freshwater distribution and patterns in Hudson Bay using...
Yanique Campbell	MSc research into effects of wave dynamics on Hudson Bay water masses.
Madison Harasyn	MSc research on sea ice passive microwave remote sensing

## 8. Other

Please provide any additional information/comments as required.

[<< Reasearch Team](#)

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BaySys Quarterly Status Report - Marine and Climate System 2017 Q4

[Submit](#)

*It will then automatically be sent for review and approval by the project team.*

*Txt Report Status:*

Draft In Progress

# Quarterly Project Report

## 1. Team Identification

<i>Project Team:</i>	Freshwater System ▼
<i>Budget Year:</i>	2017
<i>Quarter:</i>	Q4

## 2. Scope - Highlights of the Period

<i>Person Days:</i>	0
<i>Accomplishments</i>	Development of far-field (A-HYPE) scenarios and finalized calibrated non-regulated HYPE scenarios for Hudson Bay. Finalized calibration of HYPE model and coded regulation rules into HYPE in preparation for the regulated HYPE scenarios (fall 2017). Uncertainty assessment for input (forcing) data for models, focusing on the lower Nelson River basin to start; started GLUE analysis of parameter uncertainty for WATFLOOD and HECHMS models.
<i>Missed Targets</i>	none

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
36	Task 2.1, Phase 1 Climate Projections	100	complete, including bias corrected climate input f
37	Task 2.1, Phase 2 Continental-scale m...	90	Complete. HYPE unregulated scenarios under clim
38	Task 2.2 Uncertainty assessment	33	Uncertainty assessment for input data nearly com
39	Task 2.3 Regulated system modeling	60	System regulation coded into HYPE for western H
40	Task 2.4 Projected freshwater sensitivi...	5	PDF2 recently started analysis of the impact of GC

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
15	Far-field runoff for NEMO modelling	Far-field (arctic domain, latitude north of St. Lawre

ID	Risk Event	Status
7	This is my new risk	potential issue

## 5. Budget Information

### CURRENT QUARTER SPENDING

Amounts are the cumulative totals to the end of the reporting period.

#### 1. Salaries and Benefits

a) Graduate Students	\$16,026.82	A Tefs, S Pokorny, M Hamilton, M Broesky, R Lihare salaries
b) PDF's	\$10,863	M MacDonald, S Mandal salary
c) Technical Staff	\$632.98	K Wiens

#### 2. Equipment or Facility

a) Purchase or Rental	\$0	n/a
b) Operations and Maintenance Cost	\$0	n/a

#### 3. Materials and Supplies

\$253 computer supplies

#### 4. Travel Expenses

a) Conferences	\$3,852	CWRA/CGU conference (M Macdonald)
b) Field Work	\$0	n/a
c) Project Related Travel	\$4,161	Team 2 project meeting in Winnipeg in July (travel for S. Dery and
d) Central Planning Meetings	\$0	n/a

#### 5. Dissemination Costs

\$735 publication in HESS

**Total** **\$36,523.8**

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

Organization	Contribution	Description
Ouranos	2,520	C Guay for meetings and document review/revision
University of Manitoba	4,900.31	GETS stipend offset for S Pokorny, A Tefs
University of Manitoba	2,156	(UNBC -- NOT AVAILABLE FROM PULL DOWN MENU)
<b>Total</b>	<b>\$9,576.31</b>	

## 6. Budget Explanation

<i>Budget Statement</i>	the only significant budget deviation we have is for conferences, which we deemed
<i>Cash Contributions</i>	We have leveraged UM and UNBC travel funding, publication costs, and GETS/other

Expenditure Tracking

BAYSys 319259 Expenditure Report July 1 2017 to Sept 30 2017.xls  
45 KB

## 7. Research Team

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
Tricia Stadnyk	University team lead: participated in team meetings/led Team1/2 meetings...
Stephen Dery	Co-investigator: participation in team meetings and co-supervision of PDF1...
Genevieve Ali	Co-investigator: participation in team meetings & co-supervisor for MSc1
Marco Braun	Ouranos collaborator: participation in team meetings; bias-correction of C...
Rene Roy	(Catherine Guay has taken Rene's place for HQ): participated in team meeti...

## 8. Other

Please provide any additional information/comments as required.

*Summer student Mr. Matthew Hamilton is continuing this fall on coding reservoirs. Mr. Hamilton is working with M  
Five abstracts have been submitted to the ArcticNET conference 2017 (Quebec City, QC) for December 2017. One m*

[<< Reasearch Team](#)

*Before submitting the form, please confirm that the information contained in this report is complete and accurate to the best of your knowledge.*



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BaySys Quarterly Status Report - Freshwater System 2017 Q4

**Submit**

*It will then automatically be sent for review and approval by the project team.*

*Txt Report Status:*

MH Team Lead Review





# Quarterly Project Report

## 1. Team Identification

*Project Team:* Marine Ecosystem ▼

*Budget Year:* 2017

*Quarter:* Q4

## 2. Scope - Highlights of the Period

*Person Days:* 18

### *Accomplishments*

- Deschepper worked on her first thesis chapter about the spatio-temporal variability of physical forcing relevant to phytoplankton and ice-algae productivity. She analyzed 10 years (2002-2012) of atmospheric, hydrologic and sea-ice related numerical output of the HB model in order to document their principal modes of variability. Deschepper also followed a summer school entitled "Methods of data analysis in oceanic and atmospheric sciences" held at Cape Town University (August 15-25) to improve her analysis using financial support from Québec-Océan.
- Barbedo de Freitas has submitted his research proposal to his committee and he is continuing working on his first thesis chapter about the impacts of oceanographic processes on phytoplankton primary production.
- Lee and Deslongchamps finished formatting the historical nutrient database for the Bay and collected additional nutrient samples in eastern Hudson Bay during leg 2a (6 days) of the 2017 expedition of CCGS Amundsen. This database is now compatible with oceanographic software (e.g. ODV) and ready to be used. Lee is also working on rivers discharge data from models (historical and future predictions). This data will be integrated to the historical nutrient database in order to link river flows with nutrient inputs in the Bay. Lee submitted an abstract for a BaySys presentation at the Arctic Change 2017 meeting in Quebec City (December 2017).
- Matthes and Dalman continued to analyze results from previous fall and winter fieldwork. Ice cores samples from Churchill and Nelson campaigns were analyzed in terms of chlorophyll a concentration to estimate ice algal biomass. Measured under-ice photosynthetically active radiation (PAR) was calculated to gain information if the prevailing light conditions were sufficient for algae growth. Results show that ice algal communities found in ice samples were not light-limited. Moreover, the recorded light data was processed to study the availability of PAR for phytoplankton production and water samples were analyzed to investigate light absorption by particulate and dissolved organic matter. Other variables such as particulate organic carbon, high performance liquid chromatography, flow cytometry and taxonomy will be analyzed soon.

- Schembri started analyses on the acoustic data from the 2010 Hudson Bay cruise. Measurements of fish larvae collected in the Hudson Bay in 2012 were also conducted and integrated with the data from 2005 and 2010. Furthermore, genetic analysis is being looked into to distinguish young larvae that might have been misidentified in the 2010 dataset.
- PierreJean analyzed infauna and macrofauna assemblage data obtained in 2003 and 2010 in Hudson Bay. Results showed different assemblages for the infauna in the Hudson complex with a low diversity (abundance and specific richness) at the center of the Bay. PierreJean will present these results on a poster at the Quebec-Ocean's General Meeting in Rivière-du-Loup (November 2017).
- Jacquemot collected DNA and RNA data in eastern Hudson Bay during the 2017 Amundsen cruise (leg2a). These samples are being extracted and results will be compared with environmental parameters (nutrients, temperature, salinity and organic matter) to identify factors potentially controlling the distribution of the microbes. This data will provide a first glance on the freshwater-marine coupling impact on microbial communities in the Hudson Bay system and will be used to prepare the upcoming 2018 summer sampling. Jacquemot will present these results on a poster at the Arctic Change 2017 meeting in Quebec City (December 2017).
- 

*Missed Targets*

- None for this quarter.

### 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
41	Task 3.1 Assess the timing of Primary ...	10	Behind initial schedule (due to cancellation of 201
42	Task 3.2 Estimate the magnitude of Pr...	60	Preliminary work on track. The compilation of nut
43	Task 3.3 Evaluate nutrient processing ...	10	Behind initial schedule (due to cancellation of 201
44	Task 3.4 Phase 1 Biogeochemical mod...	100	Completed.
45	Task 3.4 Phase 2 Biogeochemical mod...	20	On track.

### 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
16	Cancellation of the summer cruise	Even if the 2017 summer cruise was cancelled, HC

### 5. Budget Information

#### CURRENT QUARTER SPENDING

Amounts are the cumulative totals to the end of the reporting period.


#### 1. Salaries and Benefits

a) Graduate Students	\$32,057	Salaries for HQPs.
b) PDF's	\$1,241	Partial salary for Lovejoy's PDF for DNA analyses (required by Arc
c) Technical Staff	\$15,472	Salaries for RA Deslonghamps (Tremblay).
<b>2. Equipment or Facility</b>		
a) Purchase or Rental	\$0	No expense.
b) Operations and Maintenance Cost	\$0	No expense.
<b>3. Materials and Supplies</b>	\$3,297	Material and chemicals for laboratory and upcoming cruise. Mail
<b>4. Travel Expenses</b>		
a) Conferences	\$0	No expense.
b) Field Work	\$0	No expense.
c) Project Related Travel	\$3,635	Cost for the mobilization of the Amundsen in Quebec City. Exper
d) Central Planning Meetings	\$0	No expense.
<b>5. Dissemination Costs</b>	\$0	No expense.
<b>Total</b>	<b>\$55,702</b>	

**OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS**

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
University of Laval	15,000	Contribution from Laval University
<b>Total</b>	<b>\$15,000</b>	

**6. Budget Explanation**

<i>Budget Statement</i>	All expenditures have been done according to schedule. The only deviation from th
<i>Cash Contributions</i>	Berths, wire time and travel for the sampling of nutrients, DNA and RNA on leg 2a v
<i>Expenditure Tracking</i>	 Click here to attach a file

**7. Research Team**

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
Frederic Maps	Supervising and training HQP Deschepper.
Jean-Eric Tremblay	Supervising nutrient database and supervising HQPs Deslongchamps, Gagn...
Louis Fortier	Supervising and training HQP Schembri.

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
Connie Lovejoy	Supervising and training HQP Jacquemot.
Simon Belanger	Supervising and training HQP Barbedo de Freitas.
Philippe Archambault	Supervising and training HQP Marie PierreJean.
C.J. Mundy	Supervising and training HQPs Matthes and Dalman.
Gabriele Deslongchamps	Working on nutrient database, coordinating planning, reporting, communic...
Jonathan Gagnon	Preparing equipment and consumables for sampling, contributes to sampli...
Sylvain Blondeau	Preparing equipment and rosette data.
Inge Deschepper	Working on her project.
Sarah Schembri	Working on her project. Will participate to the 2018 summer campaign (Am...
Loïc Jacquemot	Working on his project. Will participate to the 2018 summer campaign (Am...
Lucas Barbedo de Freitas	Working on his project. Will participate to the 2018 summer campaign (Am...
Janghan Lee	Working on his project. Will participate to the 2018 summer campaign (Am...
Lisa Matthes	Working on her project. Will participate to the 2018 summer campaign (Am...
Laura Dalman	Working on her project. Will participate to the 2018 summer campaign (Am...

## 8. Other

Please provide any additional information/comments as required.

[<< Reasearch Team](#)

*Before submitting the form, please confirm that the information contained in this report is complete and accurate to the best of your knowledge.*



*Upon clicking submit the report will be saved as:*

BaySys Quarterly Status Report - Marine Ecosystem 2017 Q4

**Submit**

*It will then automatically be sent for review and approval by the project team.*

*Txt Report Status:*

Completed

# Quarterly Project Report

## 1. Team Identification

<i>Project Team:</i>	Contaminants ▼
<i>Budget Year:</i>	2017
<i>Quarter:</i>	Q4

## 2. Scope - Highlights of the Period

<i>Person Days:</i>	38
<i>Accomplishments</i>	<p>Collection of sediment, soil, and water from Burntwood-Nelson River System and Lower Nelson on-system and off-system reservoirs to complete projected sample collection for inorganic and organic matter fingerprinting and characterization of Nelson River endmember for Hudson Bay inputs. Samples were also collected for mercury mass budget and experiments determining flux of methylated mercury from flooded soil.</p> <p>Ongoing analysis of previous field samples: 2016 CAMP waterbodies, winter sediment coring from CAMP lakes, Churchill and Nanuk winter field campaigns, and 2017 sediment, soil, and water sample collection trip.</p> <p>Presentation of data, including field samples collected in 2016 and fish mercury data from Manitoba Hydro/CAMP historical and ongoing data collection at international mercury conference (Wang, Singer, Munson).</p> <p>Participation from majority of team members in update meeting for Team 5.</p> <p>Preparation for enhanced team participation in 2017 BaySys mooring recovery cruise to collect Hudson Bay samples in order to minimize impact of cancellation of 2017 bay-wide cruise.</p>
<i>Missed Targets</i>	<p>Transfer of historical data from Hydro-Quebec.</p> <p>Submission of updated request for sediment data from Manitoba Hydro.</p>

## 3. Activity Tracking

ID	Task	% Complete	Status
51	Task 5.1 Relationship between mercur...	10	Potential issue: task depends on collection of bay
52	Task 5.2 Suspended Sediment and Org...	35	On Track: samples collected from several field car
53	Task 5.3 Mass balance modeling of m...	30	Potential issue: task depends on collection of bay

## 4. Risk And Issue Updates

ID	Risk Event	Status
11	Availability of Manitoba Hydro sediment data	Potential issue: no updated request for sediment (
10	Hydro-Quebec historical data is not provided	Potential issue: no data is currently available for u
9	Mercury cross-contamination on the Amundsen	On track: protocols were established during mobil

## 5. Budget Information

### CURRENT QUARTER SPENDING

Amounts are the cumulative totals to the end of the reporting period.

#### 1. Salaries and Benefits

a) Graduate Students	\$15,864	Some costs covered with in-kind
b) PDF's	\$61,332.52	PDF Munson
c) Technical Staff	\$2,609.17	Technician/graduate student research assistant (Pahlavan) to ass

#### 2. Equipment or Facility

a) Purchase or Rental	\$23,278	Equipment for field sampling
b) Operations and Maintenance Cost	\$0	none to date

#### 3. Materials and Supplies

	\$50,990	Field sampling and laboratory analysis supplies
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#### 4. Travel Expenses

a) Conferences	\$5,681	Conference attendance Wang/Lobb groups
b) Field Work	\$29,881	Costs associated with travel for multiple field campaigns, includi
c) Project Related Travel	\$0	none to date
d) Central Planning Meetings	\$360	All-team meeting

#### 5. Dissemination Costs

	\$0	none to date
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**Total** \$189,995.69

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

Organization	Contribution	Description
Wang: NSERC Discovery/U Manitoba	19,880	Used to supplement sample analysis
Lobb: NSERC Discovery/U Manitoba	24,229.49	\$12,500 to cover Q2 materials; \$3,300 to cover Q4
<b>Total</b>	<b>\$58,483.49</b>	

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
Kuzyk: ArcticNet	10,000	Cover MSc#1, MSc#4 stipends
Wang: Canada Graduate Scholarship Pr...	4,374	MSc#2 stipend
<b>Total</b>	<b>\$58,483.49</b>	

## 6. Budget Explanation

<i>Budget Statement</i>	
<i>Cash Contributions</i>	GETS program (Wang/U Manitoba): \$10500 for MSc#2 Stipend
<i>Expenditure Tracking</i>	 <a href="#">Click here to attach a file</a>

## 7. Research Team

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
Feiyue Wang	Project lead-mercury methylation and mass budget: supervision of MSc#2, ...
Allison Zacharias	Project co-lead: participation in all-team meeting, project reporting.
Sarah Wakelin	Project co-lead: participation in all-team meeting, coordination of access to...
Kathleen Munson	PDF#1 – project coordination, mercury methylation and mass budget; analy...
James Singer	MSc#2 – mercury methylation and mass budget; processing and analysis of ...
Zou Zou Kuzyk	Lead on particulate organic matter sources and transport; supervision MSc#...
Tassia Stainton	MSc#1 –organic matter fingerprinting; processing and analysis of sediment ...
Samantha Huyghe	MSc#4 – organic matter sources and transport; sample preparation and ana...
David Lobb	Lead on sediment budget and fingerprinting (inorganic); participation in pla...
Masoud Goharrokhi	PhD#1 – sediment budget and fingerprinting (inorganic); data analysis and i...
Philip Owens	Sediment budgeting and fingerprinting (inorganic): participation in planning...
Ellen Petticrew	Sediment and organic matter fingerprinting – supervision of MSc#1, analysi...
Gary Stern	Mercury methylation and mass budget – supervision of PDF#1; participatio...
Robie Macdonald	Data interpretation.

## 8. Other

Please provide any additional information/comments as required.

[<< Research Team](#)

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