

# Quarterly Project Report

## 1. Team Identification

*Project Team:* Project Coordinators ▼

*Budget Year:* 2017

*Quarter:* Q2

## 2. Scope - Highlights of the Period

*Person Days:* 15

### *Accomplishments*

- Field work related-
- Completion of the ski-doo training and the survival in cold conditions training.
  - Completion of the Churchill winter field program, an On Ice Tower has been deployed, multiple tracking beacons (that allowed to follow ice movements after a storm), and various physical samplings of the river/ocean from the Atmosphere/Sea ice/Ocean.
  - Completion of the logistics of the Nelson field work, with changes to adjust to the earlier than planned melting of the ice, and the storms that pushed back the start of Nelson Leg 2.
  - Completion of the Amundsen Science meeting held in Québec city to finalize the cruise plan and berths allocation on board of the Amundsen during the summer expedition.
  - Important progress in obtaining the approval from the UofM for the summer payment of 1,000,000 towards the Amundsen.
  - Important progress in organizing the Knowledge Exchange event (with policy makers that will be held on board of the Amundsen in Churchill).
  - Important progress in obtaining the necessary licenses for doing the science program on board of the Amundsen (drone in Leg1).
- Project related-
- Replacement of Claire Hornby by Nathalie Thériault for the position of the university coordinator.
  - Frequent meetings among coordinators to investigate the best option of field work dates in regards to the budget.
  - Completion of T1, T2 meeting in order to better understand the needs and the accomplishment of both teams. This meeting set up a good team work environment moving forward.
  - Completion of the schedule meeting with ManHydro. A new, more general, list of tasks has been produced that reflects the tasks mentioned in the NSERC proposal.
  - Dr. David Barber participated in the Hudson Bay round table.

### *Missed Targets*

- Field work has delayed the ability of team lead to do the management (work on schedule). The quarterly report are late and in paper forms because of low internet availability.
- Field report of Nanuk has not been submitted yet.
- The Gantt project document hasn't been updated with the new tasks numbers.

### 3. Activity Tracking

ID	Task	% Complete	Status
		100	completed

### 4. Risk And Issue Updates

ID	Risk Event	Status

### 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	0
b) PDF's	\$0	0
c) Technical Staff	\$23,625.49	Nathalie Theriault, Claire Hornby, Greg McCullough salaries and

#### 2. Equipment or Facility

a) Purchase or Rental	\$0	0
b) Operations and Maintenance Cost	\$10,382.65	Claire Herbert salary and benefit
3. Materials and Supplies	\$4,728	Equipment and Freight

#### 4. Travel Expenses

a) Conferences	\$0	0
b) Field Work	\$0	0
c) Project Related Travel	\$6,036	Travel to Nanuk field work or Amundsen Planning Meeting
d) Central Planning Meetings	\$0	0

#### 5. Dissemination Costs


	\$0	0
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Total \$44,772.14

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

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

## 6. Budget Explanation

Budget Statement	No deviation to report to this quarter
Cash Contributions	No contributions else than MHydro and NSERC
Expenditure Tracking	 Click here to attach a file

## 7. Research Team

Team Member	Overview of Participation and Scientific Contributions
David Barber	Project University PI and management
Kevin Sydor	Project Hydro PI and management
Michael Morris	Hydro Coordinator
Claire Hornby	University Coordinator
Nathalie Theriault	University Coordinator
Greg McCullough	scientist
Claire Herbert	Data management

## 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 Q2

**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:* Freshwater System ▼

*Budget Year:* 2017

*Quarter:* Q2

## 2. Scope - Highlights of the Period

*Person Days:* 0

### *Accomplishments*

PDF1 finalized enhancements and calibration of the HYPE model; generation of historical HYPE simulations for Team 1 (requested March 6, 2017); regeneration of historical discharge simulations for team 1.

PhD1: continued calibration of VIC model; preparation of PhD proposal; input datasets suggested by MH prepared for model input

MSc2: continued course work; Lake Diefenbaker regulated modelling

### *Missed Targets*

delay in providing historical HYPE discharge simulations to Team 1 pending approval by MH team lead Kristina Koenig

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
36	Task 2.1, Phase 1 Climate Projections	100	Completed
37	Task 2.1, Phase 2 Continental-scale m...	90	dissemination of Generation I scenarios pending i
39	Task 2.3 Regulated system modeling	10	Model setups complete; MSc student recruited
39	Task 2.3 Regulated system modeling	40	regulated system models in development; to be e
39	Task 2.3 Regulated system modeling	25	Quebec system regulated system modelling in pro

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
8	Consider including additional CMIP5 simulation for pro	Resolved
15	Far-field runoff for NEMO modelling	in progress

## 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	\$16,326	MSc2 (A Tefs), PhD1 (R Lilhare)
b) PDF's	\$25,250	PDF1 (M Macdonald)
c) Technical Staff	\$7,073	K Wiens

#### 2. Equipment or Facility

a) Purchase or Rental	\$0	none in Year 2
b) Operations and Maintenance Cost	\$2,494	purchase of computer for MSc2

#### 3. Materials and Supplies

	\$14,226	Purchase of server for HYPE scenario runs
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#### 4. Travel Expenses

a) Conferences	\$4,029	AGU, ArcticNet
b) Field Work	\$0	no field work component to Team 2
c) Project Related Travel	\$5,566	S Dery and R Lilhare to Winnipeg for Team 2 coordination
d) Central Planning Meetings	\$0	none in Year 2

#### 5. Dissemination Costs


	\$735	HESS publication
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**Total**      **\$75,699**

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

Organization	Contribution	Description
University of Manitoba	2,916.67	GETS funding match for MSc2 (A Tefs)
UNBC	3,744	UNBC PhD scholarship & funding to support public
Ouranos	1,800	Climate model scenarios, bias correction and Hydro
<b>Total</b>	<b>\$8,460.67</b>	

## 6. Budget Explanation

Budget Statement	Publication in open source Journal (HESS)
Cash Contributions	GETS funding, tuition waiver from UNBC, funding to support publication costs (UNE
Expenditure Tracking	 Click here to attach a file

## 7. Research Team

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
Tricia Stadnyk	University team lead
Kristina Koenig	MH team lead
Stephen Dery	co-supervision of PDF1 and advisory committee for MSc2; historical dischar...
Genevieve Ali	participation in meetings
Marco Braun	Consulation on climate models and scenarios; bias correction of climate ...
Rene Roy	Catherine Guay on behalf of Rene; confirmation and coordination of Task 2...

## 8. Other

Please provide any additional information/comments as required.

*MSc1 (Task 2.1, Uncertainty assessment) has been recruited and will begin research on May 2017*

[<< Reasearch Team](#)

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BaySys Quarterly Status Report - Freshwater System 2017 Q2

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*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>	Marine Ecosystem ▼
<i>Budget Year:</i>	2017
<i>Quarter:</i>	Q2

## 2. Scope - Highlights of the Period

<i>Person Days:</i>	74
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<i>Accomplishments</i>	<ul style="list-style-type: none"> <li>• Deslongchamps, Lee, Dalman and Matthes participated to the winter sampling program (Churchill and Nelson campaigns). They measured various biological, physical and chemical parameters (see Section 8 for detailed sampling). Those biological data were recorded for the first time and provide us with a winter baseline to interpret data from the upcoming summer campaign. This dataset will also be used for HQP's projects.</li> <li>• Preliminary data from the winter campaigns are being analyzed and will be available shortly.</li> <li>• Deslongchamps kept working on the database of historical nutrients for the Bay.</li> <li>• Tremblay, Deslongchamps, Gagnon, Lovejoy, Maps and Fortier participated to the Workshop held in Quebec City on 1st and 2nd February and helped to coordinate the summer BaySys sampling in June 2017 (Amundsen expedition). Another team 3 meeting was held in late April 2017 to coordinate the details of the Amundsen expedition.</li> <li>• An extensive literature review was done and some preliminary results on fish abundance and distribution in Hudson Bay were produced. These were made in preparation for the PhD project presentation of Schembri but the preliminary results were also used in Chapter 4.5 of the Hudson Bay IRIS book that is in its second draft phase.</li> <li>• Schembri, Dalman, Matthes, Lee, Deslongchamps, Jacquemot, PierreJean and Barbedo Freitas will participate to the ArcticNet-BaySys CCGS Amundsen expedition (leg1).</li> <li>• New students have been continuing to prepare their comprehensive exams, project presentations and field works. Jacquemot successfully passed his doctoral exam and Dalman defended her master proposal.</li> </ul>
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<i>Missed Targets</i>	
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None.

### 3. Activity Tracking

ID	Task	% Complete	Status
41	Task 3.1 Assess the timing of Primary ...	10	On track. No data collected.
42	Task 3.2 Estimate the magnitude of Pr...	20	On track. Nutrient database is being built (prelimi
43	Task 3.3 Evaluate nutrient processing ...	10	On track. No data collected.
44	Task 3.4 Phase 1 Biogeochemical mod...	100	Completed.
45	Task 3.4 Phase 2 Biogeochemical mod...	10	On track.

### 4. Risk And Issue Updates

ID	Risk Event	Status
	None.	NA

### 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	\$22,046	Salaries for HQPs. The grant for PhD candidate Deschepper for th
b) PDF's	\$9,952	Salary for RA Deslongchamps (Tremblay).
c) Technical Staff	\$0	No expense.

#### 2. Equipment or Facility

a) Purchase or Rental	\$0	No expense.
b) Operations and Maintenance Cost	\$1,177	Purchase of flowmeters and beam trawl net for zooplankton sam

#### 3. Materials and Supplies

\$6,490	Material and chemicals for laboratory and upcoming cruise. Mai
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#### 4. Travel Expenses


a) Conferences	\$1,327	Registration fees to BaySys related workshop and meeting.
b) Field Work	\$4,051	Travel fees for winter campaigns in Churchill and Nelson for Des
c) Project Related Travel	\$487	Portion of expenses for the ArcticNet- BaySys annual meeting in
d) Central Planning	\$0	No expense.

<i>Meetings</i>		
5. Dissemination Costs	\$0	No expense.
<b>Total</b>	<b>\$45,530</b>	

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
Laval University	15,000	In-kind contributions include salary of of Jonathan Institutional contributions to student stipend are n
<b>Total</b>	<b>\$15,000</b>	

## 6. Budget Explanation

<i>Budget Statement</i>	NA
<i>Cash Contributions</i>	NA
<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	Participates in modeling discussions, links with Saucier model, seeking mod...
Jean-Eric Tremblay	Supervising nutrient database and supervising HQPs Deslongchamps, Gagn...
Louis Fortier	Supervising and training HQP Schembri.
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 consumable for sampling, contributes to samplin...
Sylvain Blondeau	Preparing the Rosette data.
Inge Deschepper	Working on her project.
Sarah Schembri	Working on her project. Will participate to the summer campaign (Amunds...
Loïc Jacquemot	Working on her project. Will participate to the summer campaign (Amunds...
Lucas Barbedo de Freitas	Working on her project. Will participate to the summer campaign (Amunds...
Janghan Lee	Working on his project. Participated to the winter campaigns (Nelson) and ...
Lisa Matthes	Working on his project. Participated to the winter campaigns (Nelson) and ...
Marie Pierrejean	Working on her project. Will participate to the summer campaign (Amunds...
Laura Dalman	Working on his project. Participated to the winter campaigns (Churchill and ...

## 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 Ecosystem 2017 Q2

[Submit](#)

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

*Txt Report Status:*

Submitted

# Quarterly Project Report

## 1. Team Identification

*Project Team:* Marine Ecosystem ▼

*Budget Year:* 2017

*Quarter:* Q2

## 2. Scope - Highlights of the Period

*Person Days:* 74

### Accomplishments

- Deslongchamps, Lee, Delmann and Matthes participated to the winter sampling program (Churchill and Nelson campaigns). They measured various biological, physical and chemical parameters (see Section 8 for detailed sampling). Those biological data were recorded for the first time and provide us with a winter baseline to interpret data from the upcoming summer campaign. This dataset will also be used for HQP's projects.
- Preliminary data from the winter campaigns are being analyzed and will be available shortly.
- Deslongchamps kept working on the database of historical nutrients for the Bay.
- Tremblay, Deslongchamps, Gagnon, Lovejoy, Maps and Fortier participated to the Workshop held in Quebec City on 1st and 2nd February and helped to coordinate the summer BaySys sampling in June 2017 (Amundsen expedition). Another team 3 meeting was held in late April 2017 to coordinate the details of the Amundsen expedition.
- An extensive literature review was done and some preliminary results on fish abundance and distribution in Hudson Bay were produced. These were made in preparation for the PhD project presentation of Schembri but the preliminary results were also used in Chapter 4.5 of the Hudson Bay IRIS book that is in its second draft phase.
- Schembri, Delmann, Matthes, Lee, Deslongchamps, Jacquemot, PierreJean and Barbedo Freitas will participate to the ArcticNet-BaySys CCGS Amundsen expedition (leg1).
- New students have been continuing to prepare their comprehensive exams, project presentations and field works. Jacquemot successfully passed his doctoral exam and Delmann defended her master proposal.

*Missed Targets* None.

### 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	On track. No data collected.
42	Task 3.2 Estimate the magnitude of Pr...	20	On track. Nutrient database is being built (prelimi
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44	Task 3.4 Phase 1 Biogeochemical mod...	100	Completed.
45	Task 3.4 Phase 2 Biogeochemical mod...	10	On track.

### 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
	None.	NA

### 5. Budget Information

#### CURRENT QUARTER SPENDING

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<i>a) Graduate Students</i>	\$28,046	Salaries for HQPs. The grant for PhD candidate Inge for this quarter.
<i>b) PDF's</i>	\$9,952	Salary for RA Deslonghamps.
<i>c) Technical Staff</i>	\$0	No expense.

#### 2. Equipment or Facility

<i>a) Purchase or Rental</i>	\$0	No expense.
<i>b) Operations and Maintenance Cost</i>	\$1,177	Purchase of flowmeters and beam trawl net for zooplankton sampling.

#### 3. Materials and Supplies

	\$7,784	Material and chemicals for laboratory and upcoming cruise. Mail.
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#### 4. Travel Expenses

<i>a) Conferences</i>	\$1,775	Registration fees to BaySys related workshop and meeting.
<i>b) Field Work</i>	\$7,251	Travel fees for winter campaigns in Churchill and Nelson for Deslonghamps.
<i>c) Project Related Travel</i>	\$487	Portion of expenses for the ArcticNet- BaySys annual meeting in Churchill.
<i>d) Central Planning Meetings</i>	\$0	No expense.

#### 5. Dissemination Costs


	\$0	No expense.
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<b>Total</b>	<b>\$56,472</b>
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### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
Laval University	15,000	In-kind contributions include salary of of Jonathan Institutional contributions to student stipend are n
<b>Total</b>	<b>\$15,000</b>	

## 6. Budget Explanation

<i>Budget Statement</i>	NA
<i>Cash Contributions</i>	NA
<i>Expenditure Tracking</i>	 Click here to attach a file

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[<< Reasearch Team](#)

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**Submit**

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*Txt Report Status:*