

# Quarterly Project Report

## 1. Team Identification

<i>Project Team:</i>	Marine and Climate System ▼
<i>Budget Year:</i>	2018
<i>Quarter:</i>	Q3

## 2. Scope - Highlights of the Period

<i>Person Days:</i>	<input type="text"/>
<i>Accomplishments</i>	<input type="text"/>
<i>Missed Targets</i>	<input type="text"/>

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

## 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>	<input type="text"/>	<input type="text"/>
<i>b) PDF's</i>	<input type="text"/>	<input type="text"/>
<i>c) Technical Staff</i>	<input type="text"/>	<input type="text"/>

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

**OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS**

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

**6. Budget Explanation**

<i>Budget Statement</i>	
<i>Cash Contributions</i>	
<i>Expenditure Tracking</i>	 <a href="#">Click here to attach a file</a>

**NEXT QUARTER PROJECTION**

The following are projected amounts for the next quarter.

<b>1. Salaries and Benefits</b>		
a) Graduate Students		
b) PDF's		
c) Technical Staff		
<b>2. Equipment or Facility</b>		
a) Purchase or Rental		
b) Operations and Maintenance Cost		

3. Materials and Supplies	<input type="text"/>	<input type="text"/>
4. Travel Expenses		
a) Conferences	<input type="text"/>	<input type="text"/>
b) Field Work	<input type="text"/>	<input type="text"/>
c) Project Related Travel	<input type="text"/>	<input type="text"/>
d) Central Planning Meetings	<input type="text"/>	<input type="text"/>
5. Dissemination Costs	<input type="text"/>	<input type="text"/>
<b>Total</b>	0	

## 7. Research Team

Team Member	Overview of Participation and Scientific Contributions
<input type="text"/>	<input type="text"/>

## 8. Other

Please provide any additional information/comments as required.

[<< Research 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 and Climate System 2018 Q3

[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>	2018
<i>Quarter:</i>	Q3

## 2. Scope - Highlights of the Period

<i>Person Days:</i>	0
<i>Accomplishments</i>	Addressed (explained) concerns related to HYPE model irregularities on terrestrial system; investigated performance for ET and runoff over terrestrial system; input forcing data uncertainty assessment at three scales; recalibration to GFD-Hydro forcing; bias correction of GCM data with GFD
<i>Missed Targets</i>	Release of regulated system scenarios Release of gen2 future scenarios

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
36	Task 2.1, Phase 1 Climate Projections	0	Climate scenarios regenerated with new bias corr

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
19	Redo bias correction for climate scenarios	Bias correction redone for GCMs using GFD-Hydro

## 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>	\$12,318	Tefs & pokorny, Lilhare
<i>b) PDF's</i>	\$12,750	S. Mandal

c) Technical Staff	\$4,582	K Wiens
<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	\$4,756	CWRA
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>\$34,406</b>	

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

Organization	Contribution	Description
University of Manitoba	5,125.33	GETS funding & travel grants
University of Manitoba	256	UNBC: stipend match and travel funding
Ouranos	1,350	bias correction and regulated system modelling
<b>Total</b>	<b>\$6,731.33</b>	

## 6. Budget Explanation

<i>Budget Statement</i>	on track, with the exception of conference budget which is overspent because we h
<i>Cash Contributions</i>	GETS, UNBC stipend match (R. Lilhare), and travel grants (UM Faculty of Engineerin
<i>Expenditure Tracking</i>	 BAYSyS 319259 Expenditure Report April 1 2018 to June 30 2018.xls 47 KB

### NEXT QUARTER PROJECTION

The following are projected amounts for the next quarter.

<b>1. Salaries and Benefits</b>		
a) Graduate Students	\$7,000	MSc students A. Tefs, S. Pokorny
b) PDF's	\$4,200	PDF3 (replacement for S. Mandal)
c) Technical Staff	\$11,000	Undergraduate student running far field simulations

<b>2. Equipment or Facility</b>		
a) Purchase or Rental	\$14,000	server equipment upgrades
b) Operations and Maintenance Cost	\$0	n/a
<b>3. Materials and Supplies</b>		
	\$0	n/a
<b>4. Travel Expenses</b>		
a) Conferences	\$10,000	AGU
b) Field Work	\$0	n/a
c) Project Related Travel	\$4,000	RA/PDF3 to attend SMHI HYPE workshop
d) Central Planning Meetings	\$0	n/a
<b>5. Dissemination Costs</b>		
	\$0	n/a
<b>Total</b>	50200	

## 7. Research Team

Team Member	Overview of Participation and Scientific Contributions
Kristina Koenig	Project management on Hydro side
Rene Roy	Catherine Guay designated instead: regulated system modelling
Marco Braun	climate scenarios
Genevieve Ali	uncertainty analysis
Stephen Dery	regulated system versus climate change statistical separation

## 8. Other

Please provide any additional information/comments as required.

[<< Research Team](#)

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Upon clicking submit the report will be saved as:

BaySys Quarterly Status Report - Freshwater System 2018 Q3

**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:* Contaminants ▼

*Budget Year:* 2018

*Quarter:* Q3

## 2. Scope - Highlights of the Period

*Person Days:* 203

### *Accomplishments*

Mobilization for and participation in Hudson Bay Amundsen cruise.

Collection of Hudson Bay water, ice, sediment core, and suspended sediment samples for organic matter, inorganic matter, and mercury species determination and characterization.

Determination of Hudson Bay water and ice total mercury concentrations on board during bay-wide cruise.

Continued preparation of two manuscripts on the methods used to collect sediment for the purpose of sediment fingerprinting.

Preparation of manuscript on Nelson River sediment sources and transport.

Preparation of manuscript on use of compound specific stable isotope analysis for sediment source and transport characterization.

### *Missed Targets*

Limited sampling of central and eastern areas of Hudson Bay during bay-wide cruise.

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>
51	Task 5.1 Relationship between mercur...	40	On track according to revised project timeline foll
52	Task 5.2 Suspended Sediment and Org...	55	On track.
53	Task 5.3 Mass balance modeling of m...	40	On track according to revised project timeline foll

## 4. Risk And Issue Updates

<b>ID</b>	<b>Risk Event</b>	<b>Status</b>
11	Availability of Manitoba Hydro sediment data	Samples have been collected in watershed/bay an
10	Hydro-Quebec historical data is not provided	Will rely on use of published data and collaborate
9	Mercury cross-contamination on the Amundsen	Contamination was monitored on board Amundse
2	Sequence of data analysis, and model outputs causes c	Model output requests have been made to Teams

## 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	\$40,150.36	Support for MSc#1, 2, 4
b) PDF's	\$49,780.09	Support for PDF#1.
c) Technical Staff	\$0	none

#### 2. Equipment or Facility

a) Purchase or Rental	\$3,279.41	Purchase of equipment for Amundsen bay-wide cruise.
b) Operations and Maintenance Cost	\$172.17	Carryover from Q2.

#### 3. Materials and Supplies

	\$9,727.19	Purchase of consumables for Amundsen bay-wide cruise.
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#### 4. Travel Expenses

a) Conferences	\$0	none
b) Field Work	\$508	Carryover from Q2.
c) Project Related Travel	\$48.11	Carryover from Q2.
d) Central Planning Meetings	\$433.81	Planning and coordination of Amundsen bay-wide cruise.

#### 5. Dissemination Costs


	\$0	none
<b>Total</b>	<b>\$104,099.14</b>	

### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

<b>Organization</b>	<b>Contribution</b>	<b>Description</b>
NSERC-CREATE	13,500	Support for PhD#1.
University of Manitoba GETS	13,122	Support for MSc#1, 2.
ArcticNet	20,000	Support for MSc#1, 4.
MEOPAR	5,000	Supprt for MSc#1, 4.
<b>Total</b>	<b>\$64,622</b>	

<i>Organization</i>	<i>Contribution</i>	<i>Description</i>
NSERC Canada Graduate Scholarship Pr...	13,000	Support for MSc#2.
<b>Total</b>	<b>\$64,622</b>	

## 6. Budget Explanation

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

### NEXT QUARTER PROJECTION

The following are projected amounts for the next quarter.

<i>1. Salaries and Benefits</i>		
<i>a) Graduate Students</i>	\$14,000	Support for MSc#1,2,4.
<i>b) PDF's</i>	\$17,000	Support for PDF#1
<i>c) Technical Staff</i>	\$0	none
<i>2. Equipment or Facility</i>		
<i>a) Purchase or Rental</i>	\$0	none
<i>b) Operations and Maintenance Cost</i>	\$4,000	Operation of UCTEL clean lab during mercury sample analysis
<i>3. Materials and Supplies</i>	\$8,000	Purchase of consumables for Hudson Bay cruise sample analysis.
<i>4. Travel Expenses</i>		
<i>a) Conferences</i>	\$4,000	Conference attendance.
<i>b) Field Work</i>	\$1,000	Collaborative fieldwork for James Bay mercury sampling.
<i>c) Project Related Travel</i>	\$4,000	Travel for BaySys central meeting.
<i>d) Central Planning Meetings</i>	\$1,000	Team 5 attendance in BaySys central meeting.
<i>5. Dissemination Costs</i>	\$5,000	Manuscript submission fees.
<b>Total</b>	58000	

## 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; planning for bay-wide cruise.
Sarah Wakelin	Project co-lead; planning for bay-wide cruise.
Kathleen Munson	PDF#1 – project coordination, mercury methylation and mass budget; prep...

<i>Team Member</i>	<i>Overview of Participation and Scientific Contributions</i>
James Singer	MSc#2 – mercury methylation and mass budget; on-going methylmercury, ...
Zou Zou Kuzyk	Lead on particulate organic matter sources and transport; preparation of H...
Tassia Stainton	MSc#1 – particulate organic matter sources and transport. Data interpretati...
Samantha Huyghe	MSc#4 – data analysis of archived geophysical and geochemical data, prepa...
Ellen Petticrew	Sediment and organic matter fingerprinting – supervision of MSc#1, data in...
David Lobb	Sediment budget and fingerprinting - (inorganic); participation in planning s...
Masoud Goharrokhi	PhD#1 – sediment budgeting and fingerprinting (inorganic): preparation of ...
Philip Owens	Sediment budgeting and fingerprinting (inorganic); training PhD#1 (co-supe...
Gary Stern	Supervision of PDF#1. Preparation for 2018 bay-wide cruise.
Robie Macdonald	Planning and consultation for bay-wide cruise. Hudson Bay carbon budget a...

## 8. Other

Please provide any additional information/comments as required.

[<< Reasearch Team](#)

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BaySys Quarterly Status Report - Contaminants 2018 Q3

**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>	NEMO Modeling ▼
<i>Budget Year:</i>	2018
<i>Quarter:</i>	Q3

## 2. Scope - Highlights of the Period

<i>Person Days:</i>	0
<i>Accomplishments</i>	Major accomplishments include a meeting between Paul Myers (UofA) and Fred Dupont (ECCC) at CMOS conference to discuss and plan comparison of prognostic NEMO simulations with RIOPS output. Arctic-HYPE runoff fields have been mapped onto the ANHA model grid and test experiments launched, and NEMO output required by other BaySys teams determined. Analysis including evaluating the impact of including explicit tidal forcing is underway. Analysis of existing experiments and paper writing is ongoing.
<i>Missed Targets</i>	NEMO output will be provided once historical simulations with bias-corrected CMIP5 data (temperature, precipitation, and surface zonal and meridional winds) provided by Ouranos, are launched and complete. Comparison between prognostic NEMO simulations and RIOPS output will begin once data is transferred from ECCC.

## 3. Activity Tracking

<i>ID</i>	<i>Task</i>	<i>% Complete</i>	<i>Status</i>

## 4. Risk And Issue Updates

<i>ID</i>	<i>Risk Event</i>	<i>Status</i>
20	NEMO Model area	The ANHA4 implementation scope and interface b
19	Redo bias correction for climate scenarios	Bias correction is being redone using ECMWF ERA

## 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	\$9,000	Please note that this information will need to be provided by an
b) PDF's	\$14,000	salary
c) Technical Staff	\$0	N/A

### 2. Equipment or Facility

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

### 3. Materials and Supplies

	\$0	N/A
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### 4. Travel Expenses

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

### 5. Dissemination Costs

	\$0	N/A
<b>Total</b>	<b>\$23,000</b>	

## OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

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

## 6. Budget Explanation

Budget Statement	Please note that this and all budget-related sections will need to be completed by a
Cash Contributions	
Expenditure Tracking	Click here to attach a file

## NEXT QUARTER PROJECTION

The following are projected amounts for the next quarter.

### 1. Salaries and Benefits

a) Graduate Students	\$9,000	salary; Please note that this section will also need to be changed
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b) PDF's	\$14,000	salary
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>		
<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>		
<b>Total</b>	23000	

## 7. Research Team

<b>Team Member</b>	<b>Overview of Participation and Scientific Contributions</b>
Paul Myers	Team 6 co-lead; NEMO modeling, student supervision
Natasha Ridenour	PhD1; freshwater dynamics and circulation, model evaluation
Jennifer Lukovich	Team 6 co-lead; model-data comparison, sea ice dynamics
Shabnam Jarfarikhasragh	model evaluation, SSTs, heat, energy, and momentum fluxes
Kevin Sydor	Manitoba Hydro Team 6 lead; NEMO modelling coordination

## 8. Other

Please provide any additional information/comments as required.

<< Research 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 - NEMO Modeling 2018 Q3

Submit

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

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