# Quarterly Project Report 1. Team Identification Project Team: Marine and Climate System Budget Year: 2018 Q3 Quarter: 2. Scope - Highlights of the Period Person Days: Accomplishments Missed Targets 3. Activity Tracking ID Task % Complete Status 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 b) PDF's c) Technical Staff

2. Equipment or Facility		
a) Purchase or Rental	*	
b) Operations and Maintenance Cost		
3. Materials and Supplies	<i>A</i>	
4. Travel Expenses		
a) Conferences	30	
b) Field Work		
c) Project Related Travel	8	
d) Central Planning Meetings	35	
5. Dissemination Costs	*	
Total	\$0	
Organization	Contribution	Description
Organization	Total \$0	
Organization  6. Budget Explanat  Budget Statement	Total \$0	
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6. Budget Explanat  Budget Statement  Cash Contributions  Expenditure Tracking  The following are projected an  1. Salaries and Benefits  a) Graduate Students  b) PDF's	Total \$0  ion  Click here to attach a file  NEXT QUARTER PRO	
6. Budget Explanat  Budget Statement  Cash Contributions  Expenditure Tracking  The following are projected an  1. Salaries and Benefits  a) Graduate Students  b) PDF's  c) Technical Staff	Total \$0  ion  Click here to attach a file  NEXT QUARTER PRO	DECTION

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3. Materials and Supplies	200		
4. Travel Expenses			er Nader (an Alla Calabra ann an Aireann an Aireann an Aireann agus an Aireann an Aireann an Aireann an Airean
a) Conferences	為		
b) Field Work	ż.		
c) Project Related Travel	*		
d) Central Planning Meetings	3/4		
5. Dissemination Costs	38		
Total	0		
7. Research Team		- L	
Team Member		Overview of Participation and Scier	ntific Contributions
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# **Quarterly Project Report**

#### 1. Team Identification

Project Team:	Freshwater System ▼
Budget Year:	2018
Quarter:	Q3

## 2. Scope - Highlights of the Period

Person Days:	0	
Accomplishments	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	patroni
Missed Targets	Release of regulated system scenarios  Release of gen2 future scenarios	

### 3. Activity Tracking

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

## 4. Risk And Issue Updates

<i>ID</i>	Risk Event	Status
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

a) Graduate Students	\$12,318	Tefs & pokorny, Lilhare
b ) PDF's	\$12,750	S. Mandal

c) Technical Staff	\$4,582	K Wiens
2. Equipment or Facility	Academic Control of the Control of t	
a) Purchase or Rental	\$0	n/a
b) Operations and Maintenance Cost	\$0	n/a
3. Materials and Supplies	\$0	n/a
4. Travel Expenses	Terrena de la composition	
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
5. Dissemination Costs	\$0	n/a
Total	\$34,406	

#### 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
	Total \$6,731.33	

### 6. Budget Explanation

Budget Statement	on track, with the exception of conference budget which is overspent because we h	
Cash Contributions	GETS, UNBC stipend match (R. Lilhare), and travel grants (UM Faculty of Engineerin	
Expenditure Tracking	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.

1. Salaries and Benefits		
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
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a) Purchase or Rental	\$14,000	comor oquinment unavedes	
	\$14,000	server equipment upgrades	
b) Operations and Maintenance Cost	\$0	n/a	
3. Materials and Supplies	\$0	n/a	
4. Travel Expenses			
a) Conferences	\$10,000	AGU	
b) Field Work	\$0	n/a	
c) Project Related Travel	\$4,000	RA/PDF3 to attend SMHI HYPE wo	orkshop
d) Central Planning Meetings	\$0	n/a	
5. Dissemination Costs	\$0	n/a	
Total	50200		
7. Research Team			
Team Member		Overview of Participation and Scien	ntific Contributions
Kristina Koenig	Project ma	anagement on Hydro side	
Rene Roy	Catherine	Guay designated instead: regulated s	ystem modelling
Marco Braun	climate sce	enarios	7.10 100 000 000 000 0000 0000 0000 0000
Genevieve Ali	uncertaint	y analysis	
Stephen Dery	regulated :	system versus climate change statistic	cal separation
8. Other Please provide any additional i	nformation/com	nments as required.	
			<< Reasearch Team
Before submitting the form, ple report is complete and accurat		t the information contained in this our knowledge.	(V)
Upon clicking submit the report BaySys Quarterly Status Report			Submit
It will then automatically be se	nt for review and	d approval by the project team.	
Txt Report Status:			

# **Quarterly Project Report**

### 1. Team Identification

Contaminants ▼
2018
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

ID	Task	% Complete	Status
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

ID	Risk Event	Status
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.

#### 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
Total	\$104,099.14	

#### OTHER ORGANIZATIONS IN-KIND CONTRIBUTIONS

13,500	Support for PhD#1.
	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
13,122	Support for MSc#1, 2.
20,000	Support for MSc#1, 4.
5,000	Supprt for MSc#1, 4.
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	20,000 5,000

Organization		Contribution	Description
NSERC Canada Graduate Scholar	ship Pr	13,000	Support for MSc#2.
	Total	\$64,622	
6 Budget Evplanat	ion	THE STATE OF THE S	
6. Budget Explanat	1011		
Budget Statement			
Cash Contributions			
Expenditure Tracking	Click he	re to attach a file	
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The following are projected am	ounts for th	e next quarter.	
1. Salaries and Benefits		and a sufficient of the contract of the contra	

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

### 7. Research Team

Team Member	Overview of Participation and Scientific Contributions			
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			

Team Member	Overview of Participation and Scientij	fic Contributions					
James Singer	MSc#2 – mercury methylation and mass budget; o	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	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 (i	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-w	ide cruise.					
Robie Macdonald	Planning and consultation for bay-wide cruise. Hu	Planning and consultation for bay-wide cruise. Hudson Bay carbon budget a					
8. Other  Please provide any addition	al information/comments as required.						
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# **Quarterly Project Report**

	Project Team:	NEMO Modeling	PETER PRODUCTION OF THE PRODUC	▼ 1		
	Budget Year:	2018				
	Quarter:	Q3				
2.	Scope - Highligh	ts of the Period				
	Person Days:					
	Accomplishments	Dupont (ECCC) at CMOS or prognostic NEMO simulati been mapped onto the AN and NEMO output require	onference to dons with RIOP IHA model gridd d by other Bay npact of includ	ng between Paul Myers (UofA) and Fred iscuss and plan comparison of S output. Arctic-HYPE runoff fields have d and test experiments launched, and test experiments launched, sys teams determined. Analysis ling explicit tidal forcing is underway, her writing is ongoing.		
	AND	NEMO output will be provided once historical simulations with bias-corrected				
	Missed Targets	CMIP5 data (temperature, winds) provided by Ouran prognostic NEMO simulati	precipitation, os, are launch	and surface zonal and meridional ed and complete. Comparison between		
hvericabelle et dicta con-	Activity Tracking	CMIP5 data (temperature, winds) provided by Ouran prognostic NEMO simulati transferred from ECCC.	precipitation, os, are launch ons and RIOPS	and surface zonal and meridional ed and complete. Comparison between soutput will begin once data is		
menologic relativas		CMIP5 data (temperature, winds) provided by Ouran prognostic NEMO simulati transferred from ECCC.	precipitation, os, are launch ons and RIOPS	and surface zonal and meridional ed and complete. Comparison between		
	Activity Tracking  Task  Risk And Issue U	CMIP5 data (temperature, winds) provided by Ouran prognostic NEMO simulati transferred from ECCC.	precipitation, os, are launch ons and RIOPS	and surface zonal and meridional ed and complete. Comparison between soutput will begin once data is		
ID  Action of the first of the	Activity Tracking  Task  Risk And Issue U	CMIP5 data (temperature, winds) provided by Ouran prognostic NEMO simulati transferred from ECCC.  % Complete pdates	precipitation, os, are launch ons and RIOPS	and surface zonal and meridional ed and complete. Comparison between soutput will begin once data is  Status		
ID	Activity Tracking  Task  Risk And Issue U	CMIP5 data (temperature, winds) provided by Ouran prognostic NEMO simulati transferred from ECCC.  % Complete pdates	precipitation, os, are launchons and RIOPS	and surface zonal and meridional ed and complete. Comparison between soutput will begin once data is  Status		

	CURREN	IT QUARTER SPEN	DING
Amounts are the cumulative to	tals to the end of	the reporting period.	
1. Salaries and Benefits	november in the state of the st		
a) Graduate Students	\$9,000	Please note that thi	is 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	
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	
Total	\$23,000		
		ATIONS IN-KIND Co	
Organization	Cor	ntribution	Description
	Total	\$0	
6. Budget Explanat	ion		
Budget Statement	Please note that	t this and all budget-re	elated sections will need to be completed by
Cash Contributions			
Expenditure Tracking	Click here to a	attach a file	
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b ) PDF's	\$14,000	salary		
c) Technical Staff	\$0	N/A		
2. Equipment or Facility	The second section of the second second second second second second			
a) Purchase or Rental	\$0	N/A		
b) Operations and Maintenance Cost	\$0	N/A		
3. Materials and Supplies	\$0	N/A		
4. Travel Expenses	AND			
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		
Total	23000			
7. Research Team				
Team Member		Overview of Participation and Scientific Contributions		
Paul Myers	Team 6 co-lead; NEMO modeling, student supervision			
Natasha Ridenour		hwater dynamics and circulation, model evaluation		

Team Member	Overview of Participation and Scientific Contributions				
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

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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.

Txt Report Status:

Draft In Progress