

# Metadata

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# Data and Resources

<b>URL</b>	<a href="https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/913f0783-1d97-4e18-b087-554732049a23/download/basu_igs2019.pdf">https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/913f0783-1d97-4e18-b087-554732049a23/download/basu_igs2019.pdf</a>
<b>Name</b>	An optical assessment of the nelson/hayes river plume dispersion extent in hudson bay (canada)
<b>Description</b>	The Nelson/Hayes River (NHR), located in the southwestern edge of the Hudson Bay (HB) (Canada) (Fig. 1) contributed approximately 47% of the mean annual discharge of the western HB during the period 1964-2013 (Déry et al, 2016). This voluminous freshwater input controls the ocean processes in the south western to southern HB. Moreover hydroelectric regulation of the Nelson River has modified the discharge resulting in an increased winter discharge and flattened summer hydrograph . This called for a need to investigate the revised seasonal signals of the river runoff in a spatio-temporal scale. Ocean color remote sensing approach provides a convenient way to study the mixed layer processes within the photic depth limit (Wozniak et al, 2010). This study has attempted to detect the NHR plume dispersion limit using color dissolved organic matter (CDOM) as the ocean color proxy for terrestrial discharge, (Fichot et al, 2013).
<b>Format</b>	PDF
<b>Resource Category</b>	documents
<b>URL</b>	<a href="https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/aeb6b641-7a8e-40f4-abb4-509905234bc9/download/dalman_igs2019.pdf">https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/aeb6b641-7a8e-40f4-abb4-509905234bc9/download/dalman_igs2019.pdf</a>
<b>Name</b>	Response of biological communities to a seasonal freshwater gradient in southwestern Hudson Bay, Canada
<b>Description</b>	The aim of this study is to examine the role of regulated rivers on bottom ice algal communities and phytoplankton by investigating the following objectives along a salinity gradient: 1. Examine the influence of the river plume on ice algal and phytoplankton production from the estuary to the marine system 2. Examine the variability in ice algal biomass and nutrient availability 3. Investigate the influence of the river output on taxonomic composition.
<b>Format</b>	PDF
<b>Resource Category</b>	documents
<b>URL</b>	<a href="https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/dd21f17a-61f3-47fc-82fa-1f3478ffc565/download/harasyn_igs2019.pdf">https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/dd21f17a-61f3-47fc-82fa-1f3478ffc565/download/harasyn_igs2019.pdf</a>
<b>Name</b>	Sediments and sea ice deformation: UAV observations of sea ice topography evolution throughout the melt season
<b>Description</b>	<b>**Motivation**</b> - Sediments are hypothesized to enhance the rate of sea ice surface melt by decreasing surface albedo - Enhanced surface melt influences the sea ice surface topography/roughness, as well as increasing surface wetness - As a result, sediment presence on the ice surface could impact both optical and radiometric satellite-borne measurements (through changes in albedo and surface wetness, respectively)
<b>Format</b>	PDF
<b>Resource Category</b>	documents
<b>URL</b>	<a href="https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/52a5859f-0bdd-4e8b-890c-7deea173f460/download/petrusevich_igs2019.pdf">https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/52a5859f-0bdd-4e8b-890c-7deea173f460/download/petrusevich_igs2019.pdf</a>
<b>Name</b>	Impact of ice covers on diel vertical migration of zooplankton in the Arctic marine environment
<b>Description</b>	Diel vertical migration (DVM) of zooplankton is a process of synchronized movement of the organisms from the mesopelagic zone up to the epipelagic zone at night and returning back during the day. DVM is considered to be the largest synchronized diel movement of biomass on the planet. It also acts as a biological pump in transferring organic carbon from the surface of the ocean to depth.
<b>Format</b>	PDF
<b>Resource Category</b>	documents
<b>URL</b>	<a href="https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/d08f67a1-bad9-4081-9fb7-4ce0f7162195/download/lee_arcticchange_2020.pdf">https://lwb-in-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/d08f67a1-bad9-4081-9fb7-4ce0f7162195/download/lee_arcticchange_2020.pdf</a>
<b>Name</b>	Nutrient inputs from subarctic rivers into the Hudson Bay system

<b>Description</b>	Little information exists concerning the riverine supply of inorganic nutrients and its consequences on primary production in the Hudson Bay system (HB), a large subarctic inland sea that is impacted by rapid climate change and anthropogenic disturbance. In order to provide a reference point by which future changes can be evaluated, we estimated fluxes of nitrate (N), phosphate (P) and silicate (Si) using contemporary and historical nutrient data in conjunction with discharge rates generated by 3 different global climate models. Several key points can be highlighted. Firstly, the N:P and Si:N molar ratios of river nutrient fluxes exhibit large contrasts between different sectors of HB, which is attributed to variable geological settings in the watersheds. Generally, low N:P and high Si:N ratios imply that river waters are characterized by a severe deficit of nitrate with respect to the needs of primary producers. Secondly, seasonality in nutrient concentrations and ratios were apparent in the sampled rivers at different times of years. While the regulation of river flow in the Nelson and La Grande rivers had no discernible impact on nutrient concentrations and ratios, it clearly shifted nutrient transports toward the winter when biological activity in the estuaries is reduced. Thirdly, the southwestern rivers made the largest contributions of each nutrient flux to the total annual nutrient deliveries, with the modest contributions from the south and east rivers, and with the lowest contributions from the northwestern rivers. Finally, the combined nitrate input by all rivers was nearly two orders of magnitude (ca. $2.0 \times 10^{10}$ g N) lower than the estimated vertical re-supply of nitrate to the surface during winter in offshore waters of HB (ca. $1.2 \times 10^{12}$ g N). The potential contribution of river nutrients to new primary production is therefore small at HB scale but can be significant locally.
<b>Format</b>	PDF
<b>Resource Category</b>	documents
<b>URL</b>	<a href="https://lwin-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/8048394d-a741-4091-bab1-98ac0fe2d2b2/download/ridenour_natasha.pptx">https://lwin-dev.ad.umanitoba.ca/data/dataset/51d3a499-75bd-4662-97e3-0d31d9fcb8dc/resource/8048394d-a741-4091-bab1-98ac0fe2d2b2/download/ridenour_natasha.pptx</a>
<b>Name</b>	Hudson Strait Inflow: Structure and Variability
<b>Description</b>	<b>**Goals**</b> - Present the first year-round observations of the Hudson Strait inflow - Determine Hudson Strait inflow source waters - Estimate Hudson Strait inflow pathways within the Hudson Bay Complex
<b>Format</b>	PPTX
<b>Resource Category</b>	documents
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/2020-10-27-tefs-arcticchange-2020-presentation.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/2020-10-27-tefs-arcticchange-2020-presentation.mp4</a>
<b>Name</b>	A.Tefs- Arctic Change 2020
<b>Description</b>	Freshwater and BaySys: Hydrology, climate change, anthropogenic water use, and model uncertainty at the continental scale.
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/arcticchange_mar39_alessia_guzzi.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/arcticchange_mar39_alessia_guzzi.mp4</a>
<b>Name</b>	A. Guzzi- Arctic Change 2020
<b>Description</b>	The Influence of freshwater on nutrient conditions for primary production in the coastal waters of northeast James Bay.
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_jennifer_bruneau.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_jennifer_bruneau.mp4</a>
<b>Name</b>	J.Bruneau- Arctic Change 2020
<b>Description</b>	The Ice Factory of Hudson Bay: Spatiotemporal Variability of the Polynya in Northwestern Hudson Bay
<b>Format</b>	
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_laura_dalman.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_laura_dalman.mp4</a>
<b>Name</b>	L.Dalman- Arctic Change 2020
<b>Description</b>	Microalgal response to a seasonal freshwater input in southwestern Hudson Bay
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental

<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_loic_jacquemot.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_loic_jacquemot.mp4</a>
<b>Name</b>	L. Jacquemot- Arctic Change 2020
<b>Description</b>	Structure of Mircobial Communities During ice-opening in the Hudson Bay
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_madison_harasyn.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_madison_harasyn.mp4</a>
<b>Name</b>	M. Harasyn- Arctic Change 2020
<b>Description</b>	Highly deformed sediment-laden sea ice in southern Hudson Bay: Findings from the 2018 BaySys expedition
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_mohamed_ahmed.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_mohamed_ahmed.mp4</a>
<b>Name</b>	M. Ahmed- Arctic Change 2020
<b>Description</b>	Spatiotemporal variability of surface water pCO2 during the ice melt season in Hudson Bay, Canada
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_yarisbel_garcia-quintana.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar39_yarisbel_garcia-quintana.mp4</a>
<b>Name</b>	Y. Garcia-Quintana- Arctic Change 2020
<b>Description</b>	On the impact of climate change and river regulation on the Hudson Bay Complex's ocean properties and dynamics
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar45_lucas_barbedo_de_freitas.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/BaySys_Presentations_Videos_e069_a387_5eb5/mar45_lucas_barbedo_de_freitas.mp4</a>
<b>Name</b>	L. Barbedo de Freitas- Arctic Change 2020
<b>Description</b>	Atmospheric Forcings and Photo-Acclimation of phytoplankton fail blooms in the Hudson Bay.
<b>Format</b>	MP4
<b>Resource Category</b>	supplemental