

## Forthcoming reports, publications, and datasets

*Note: The purpose of this table is to provide the Regional Assessment Committees with information on reports, publications, and datasets that may be relevant to future assessments of impacts of offshore wind energy on aerofauna (birds, bats and flying insects), including assessments of cumulative effects.*

Category	File name	Description	Contact information	Status	Additional details	Can this be shared with the public?	Has this document been shared with the RA committee by ECCC?
Guidance	Interim Guidance on Environmental Assessment and Protocols for Monitoring Impacts from Offshore Wind Energy Development on Migratory Birds and Aerial Species at Risk	Monitoring guidance and protocols for assessing impacts from OSW energy development to aerofauna.	<email address removed>	Draft	Initial review comments being integrated and document will be sent for second review in Fall 2024.	Not yet.	No
Guidance	Standard Operating Procedures related to bats and offshore wind Energy development	Offshore bat SOP, appended to national guidance document	<email address removed>	Draft	Will be developed over fall, and transferred to HQ to bring into their document. Available after HQ adoption.	Not yet – needs internal review and adoption at HQ level.	No. To be provided to Committees <i>after</i> draft final report publication.

Category	File name	Description	Contact information	Status	Additional details	Can this be shared with the public?	Has this document been shared with the RA committee by ECCC?
Dataset & Report	Collision and Displacement Vulnerability Models	Report, database and maps on collision and displacement vulnerability.	<email address removed>	Report – Draft Table – Final Maps - Final	Database, data context summary, and summary report are complete.	Not yet.  Maps should remain confidential, pending ECCC approval.  Data sets to be published on Open Data.	Yes
Dataset & Report	Foraging Range Summaries	Distance and density weighted foraging buffers for marine bird colonies	<email address removed>	Report – Draft Table – Final Maps - Final		Context report can be posted to the registry, however links will not be active.  Maps should remain confidential pending ECCC approval.  Data sets to be published on Open Data.	Yes, provided to the Committees for consideration in draft final report.
Dataset & Report	Movement Summaries	Summary of bird tracking data as tracks, kernel density estimates, or dBBMMs including Migratory movement	<email address removed>	Report – Draft Maps – Draft	Has been reviewed by CWS and STB species experts.  Mapping products and context piece will be shared once reviewed and	Not yet – will be sent to committees first then to IAAC registry.	No. To be provided to the Committees for consideration in draft final report.

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					approved by management and EPOD	Data sets to be published on Open Data.	
Report	Shorebird Movements in Atlantic Canada	Summary report on the variety of tracking data available for Atlantic Canada, prepared by the Shorebird Collective	<email address removed>	Report – Final Map – Draft		Yes.	Yes
Report	Bat Observations in Atlantic Canada	Summary and compilation of known bat observation offshore in Atlantic Canada	<email address removed>	Report – Draft Map – Draft	Brief description of observations Atlantic Canada in the offshore.	Yes	Yes
Report and Dataset	Atlantic See Bats at Sea Program	Offshore bat monitoring, including marine observations and coastal islands using acoustic monitoring devices.	<email address removed>	Spring 2025	Brief description of observations and efforts underway in Atlantic Canada for collecting offshore Bat observations.	Yes	Partially in August 2024
Report and Summary	Important Bird Areas and Key Biodiversity Areas	Status of the transition from Important Bird Areas into Key Biodiversity Areas including additional proposed sites	<email address removed>	Map – Draft Report - Draft	Summary of species presence at each site and distance to nearest proposed leasing area (NL) or potential future development area (NS)	Yes	No. To be submitted to the committee for consideration in the draft final report.

Category	File name	Description	Contact information	Status	Additional details	Can this be shared with the public?	Has this document been shared with the RA committee by ECCC?
Report	Motus as a Tool for Offshore Wind Assessment and Monitoring: State of Knowledge Report	Report prepared by Birds Canada with an overview of the Motus tracking network, and how it can be applied for monitoring impacts of OSW energy development to aerofauna.	<email address removed>	Draft report completed	Awaiting confirmation from Birds Canada if report can be shared with the public.	Awaiting confirmation.	Yes
Report	Nova Scotia PFDA Overlap Analysis	Analysis of each PFDA with existing data products (density, movement, vulnerability)	<email address removed>	Report – Draft Map – Draft	Per PFDA analysis of known aerofauna vulnerability, movements, and densities.	Yes	No
Dataset & Report	Leach’s Storm-petrel Overlap with PFDAs	Analysis of each PFDA with movement models of Leach’s Storm-petrel	<email address removed>	Report - Draft	Per PFDA analysis of known Leach’s Storm-petrel movement and habitat use. Requires review by ECCC species experts	No	No
Report	Pathways of Effects for Offshore Wind Energy Development and Aerofauna	Report on PoEs for each phase of OSW development	<email address removed>	Interim report		Yes	Yes
Report	Summary of IPFs and Mitigations	Review of IPFs, stressors and mitigations for	<email address removed>	Interim report		Yes	No

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		avoiding and minimizing impacts to aerofauna.					
Dataset & Report	2024-07-10 Available Evidence and Data Gaps - Strategies for Mitigating Impacts to Aerofauna from OSW Development	Comprehensive evaluation of the evidence base for strategies for mitigating impacts to aerofauna from OSW development	<email address removed>	Draft manuscript	<p>This work has been prepared by subject matter experts from the Biodiversity Research Institute and Environment and Climate Change Canada (STB and CWS) as part of a joint research collaboration. The manuscript is currently in pre-print.</p> <p>The document has supported ECCC's feedback related to mitigation.</p>	<p>Yes</p> <p><a href="https://www.biorxiv.org/content/10.1101/2024.08.20.608845">https://www.biorxiv.org/content/10.1101/2024.08.20.608845</a> v1</p>	Yes
Report	Interim Conceptual Framework for Assessing the Cumulative Effects of Offshore Wind Energy and Other Pressures on Aerofauna	An Interim Conceptual Framework for Assessing the Cumulative Effects of Offshore Wind Energy and Other Pressures on Aerofauna	<email address removed>	Draft manuscript	<p>This manuscript has benefitted from review by five external subject matter experts from the UK, Netherlands, and USA and two from Canada (DFO).</p> <p>The CEA framework may be revised following lessons</p>	<p>Yes</p> <p><a href="https://www.biorxiv.org/content/10.1101/2024.08.20.608171">https://www.biorxiv.org/content/10.1101/2024.08.20.608171</a> v1</p>	Yes

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					<p>learned in the implementation of case studies.</p> <p>The proposed framework describes an approach that will be tested through two case studies over the coming year.</p>		
Research Plans	(Appendix B) Interim Conceptual Framework for Assessing the Cumulative Effects of Offshore Wind Energy and Other Pressures on Aerofauna	Appendix B outlines research plans to conduct two cumulative effects Assessments on marine migratory birds as case studies demonstrating and testing the conceptual CEA framework.	<email address removed>	In progress. Scope of the case studies is subject to change.	This plan outlines the current and anticipated research conducted to help address knowledge/data gaps and is not for the public. The Knowledge gaps addressed include 1) refinement of a framework for assessing cumulative effects for aerofuna, 2) where within the Proposed Future Development Areas are OSW developments least likely to result in cumulative effects on Valued Ecosystem Components.	No	Yes

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Data set	Density Surface Modeling of seabird abundance in NW Atlantic and Eastern Canadian Arctic	Seabird density models	<email address removed>	Preliminary model results	This is a seasonal species distribution model that is built using data from the Environment Canada Seabirds At Sea (ECSAS) program.	No – results are preliminary and should not be shared	Yes
Data set	Non-breeding species distribution model for thick-billed murres	Dynamic species distribution model of thick-billed murres from colonies across the Atlantic during the non-breeding period (Sep-May)	<email address removed>	In progress, preliminary results expected in Fall 2024	This is a continuous (i.e., dynamic) species distribution model that is built using tracking data. Model predictions will cover the entire North Atlantic region.	No – model is still being developed	No
Data set	Breeding species distribution model for Leach's storm-petrels	Dynamic species distribution model of Leach's storm-petrels from Canadian and US colonies during the breeding season	<email address removed>	In progress, preliminary results expected in Fall 2024	This is a continuous (i.e., dynamic) species distribution model that is built using tracking data. Model predictions will cover the North Atlantic breeding range.	No – model is still being developed	No
Data set	Non-breeding species distribution model for Leach's storm-petrels	Dynamic species distribution model of Leach's storm-petrels from Canadian colonies during the non-breeding season	<email address removed>	In progress, preliminary results expected in Spring 2025	This is a continuous (i.e., dynamic) species distribution model that is built using tracking data. Model predictions will cover the whole Atlantic non-breeding range.	No – model is still being developed	No

Category	File name	Description	Contact information	Status	Additional details	Can this be shared with the public?	Has this document been shared with the RA committee by ECCC?
Data set	Non-breeding species distribution model for great shearwater	Dynamic species distribution model of great shearwater during the non-breeding season	<email address removed>	In progress, preliminary results expected in Spring 2025	This is a continuous (i.e., dynamic) species distribution model that is built using tracking data. Model extent is still being determined; coverage should include Nova Scotia but data for Newfoundland are still being collected in 2024/25.	No – model is still being developed	No
Data set	CAN-SAR: A database of Canadian Species at Risk information.	The aim of this database is to provide open and accessible data reflecting information obtained from Canadian species at risk listing and recovery planning documents. It is a living database that will be updated as new datasets and information become available. It is intended to advance research, conservation priorities, and act as a	<email address removed>	Online version available <a href="https://osf.io/e4a58/">https://osf.io/e4a58/</a> Publication: <a href="https://doi.org/10.1038/s41597-022-01381-8">https://doi.org/10.1038/s41597-022-01381-8</a>	Includes information specific to the treatment of climate change as a threat and adaptation actions for Schedule 1 SAR <a href="https://doi.org/10.1111/csp.2.450">https://doi.org/10.1111/csp.2.450</a>	Naujokaitis-Lewis, I., Endicott, S. & Guezen, J. M. CAN-SAR: a database of Canadian species at risk information. Open Science Framework <a href="https://doi.org/10.17605/OSF.IO/E4A58">https://doi.org/10.17605/OSF.IO/E4A58</a> (2022).	Yes

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		national scale database that includes data from various research initiatives. or the Authoritative source of current species at risk information please consult the SARA Public Registry ( <a href="https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html">https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html</a> ).					
Report	Integrated population modeling to understand the drivers of declining Leach's Storm-petrels in eastern Canada (ESRF Project No. 2021-01S)	A 3 year ESRF ( <a href="http://www.esrfunds.org">www.esrfunds.org</a> ) funded project to examine key drivers and cumulative effects causing declines in Leach's Storm-petrel colonies in eastern Canada. The project is focused on the Possible role of offshore oil and gas	<email address removed>	In progress, project will be completed by 1 April 2025	Final report will be complete by 1 April 2025, but review and approval by ESRF will likely take a few more months.	When the final report is accepted by ESRF, it will be posted on their public web site ( <a href="http://www.esrfunds.org/publications">www.esrfunds.org/publications</a> )	No

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		operations, but will consider all natural and anthropogenic potential sources of mortality.					
Report	Using tracking technologies to evaluate overlap of Leach's storm-petrel with offshore oil and gas platforms (ESRF Project No. 2020-02S)	A 3 year ESRF ( <a href="http://www.esrfunds.org">www.esrfunds.org</a> ) funded tracking project to examine overlap of Leach's storm-petrel populations with oil and gas operations in eastern Canada's offshore. Project focused on oil and gas sector, but the SDMs developed will assess overlap with other stressors at-sea Throughout the annual cycle.	<email address removed>	In progress, project will be completed by 1 April 2025	Final report will be complete by 1 April 2025, but review and approval by ESRF will likely take a few more months.	When the final report is accepted by ESRF, it will be posted on their public web site ( <a href="http://www.esrfunds.org/publications">www.esrfunds.org/publications</a> )	No
Data set	GSM-GPS movement data set and Motus movement data set (NAP Canada Goose only)	NAP Canada Goose, Eastern Mallard and American Black Duck Movement Data	<email address removed>	In progress (RA Team is aware of the data collection), with		Awaiting confirmation.	No

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				anticipation of several years more movement data collected			
Report	Newfoundland and Labrador PLA Overlap Analysis	Analyses of PLAs with existing data products (density, movement, vulnerability)	<email address removed>	developing potential approaches for considering NL areas.	ECCC will conduct analyses of existing data products with respect to the PLAs presented by the NL RA Committee. Anticipated timeline: Fall 2024.	Yes	No