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**Dear Ecology Editors,**

We are pleased to submit our data paper, titled "*Mapping threats to marine birds to inform conservation and management in Atlantic Canada*", for consideration in Ecology as a Data Paper. This work presents a comprehensive dataset of spatiotemporal threat layers for migratory seabirds within Canada’s Exclusive Economic Zone (EEZ), developed to inform conservation strategies, environmental response planning, and marine spatial planning initiatives.

The dataset integrates multiple primary data sources, including government monitoring programs (e.g., Integrated Satellite Tracking of Pollution, National Aerial Surveillance Program, Automatic Identification System), remote sensing data (e.g., VIIRS Nighttime Lights and Boat Detection), and geospatial analyses of vessel traffic, petroleum pollution, and artificial light. These data were systematically processed into a harmonized study grid at 1-km² resolution, providing monthly or annual geospatial threat layers between 2006 and 2023 depending on each specific dataset.

We believe this dataset aligns well with Ecology’s mission to advance the understanding of ecological systems by providing rigorously curated and well-documented datasets for broad scientific use. This work integrates multiple existing datasets into standardized geospatial layers, ensuring accessibility and reproducibility through open-access archiving. In accordance with the Open Research Policy requirements of Ecology, the dataset, associated metadata, and code will be available on Zenodo once the paper is accepted for publication. In the meantime the codebase is already openly available on GitHub (https://github.com/inSilecoInc/ceacws).

We hope that you will find the proposed manuscript suitable for evaluation in Ecology. Please do not hesitate to contact me should you require any additional information.

Thank you for your time and consideration. We look forward to your response.

Sincerely,

David Beauchesne