

## **BRI research included in landmark study in the journal *Science* as part of global animal tracking data collective**

BRI researchers have joined scientists around the world in a landmark study published in the journal *Science* that uses three decades of animal tracking data to gather insights about animal responses to changing environmental conditions in the Arctic. The study, titled *Ecological insights from three decades of animal movement tracking across a changing Arctic*, utilizes and broadly introduces the Arctic Animal Movement Archive (AAMA). The AAMA is an active collection of tracking datasets from researchers across the globe for marine and terrestrial animals in the arctic. The AAMA is hosted on the online global movebank database ([www.movebank.org](http://www.movebank.org)).

By highlighting case studies in Golden Eagles, Caribou and several terrestrial mammals, the study demonstrates how the AAMA can be a powerful research tool for studying the ecology of a wide variety of animals, and for understanding how they respond to the rapid environmental changes being observed in the arctic. As revealed by animals fitted with tracking devices, the study characterized changes in the timing of migration, movement rates and the timing of reproduction in relation to changing environmental conditions.

[See the article here.](#)

### **Also, check out these related links:**

**Link to the journal article:** <https://science.sciencemag.org/content/370/6517/712>

**Web page of the Arctic Animal Movement Archive (AAMA) on Movebank:**  
<https://www.movebank.org/cms/movebank-content/arctic-animal-movement-archive>

**Link to the data publication (which included processed data used in the analysis - no raw animal location data) in Dryad:**  
<https://datadryad.org/stash/dataset/doi:10.5061/dryad.k98sf7m4m>

### **Links to stories on this paper:**

Science EurekAlert: [https://www.eurekalert.org/pub\\_releases/2020-11/m-aoa110520.php](https://www.eurekalert.org/pub_releases/2020-11/m-aoa110520.php)

Cosmos blog: <https://cosmosmagazine.com/uncategorized/ecological-data-reveal-a-changing-arctic/>

New Scientist: <https://www.newscientist.com/article/2259144-arctic-animals-are-migrating-earlier-in-the-year-due-to-climate-change/>

Inverse: <https://www.inverse.com/science/big-arctic-data>

North Shore News: <https://www.nsnews.com/arctic-animals-showing-climate-adaptation-but-it-may-be-causing-declines-study-1.24233945>

Phys.org: <https://phys.org/news/2020-11-global-scale-animal-ecology-reveals-behavioral.html>

The Star: <https://www.thestar.com/news/canada/2020/11/05/arctic-animals-showing-climate-adaptation-but-it-may-be-causing-declines-study.html>

El Pais (in Spanish): <https://elpais.com/ciencia/2020-11-05/los-desplazamientos-de-miles-de-animales-muestran-como-ha-cambiado-la-vida-en-el-artico.html>

Siencia & Sauda (in Portuguese): <https://www.sabado.pt/ciencia---saude/detalhe/crise-climatica-responsavel-por-mudancas-de-comportamentos-em-animais-do-artico>

Basler Zeitung (in German): <https://www.bazonline.ch/die-arktis-geraet-aus-der-balance-690550596262>

### **Institutional web news and blogs:**

OSU: <https://news.osu.edu/new-database-shows-arctic-animals-changing-behavior-in-face-of-climate-change/>

OSU CEGE: <https://ceg.osu.edu/news/2020/11/new-archive-brings-together-decades-arctic-animal-migration-data>

Max Planck Institute:

[https://www.ab.mpg.de/256670/news\\_publication\\_15976863\\_transferred?c=3273](https://www.ab.mpg.de/256670/news_publication_15976863_transferred?c=3273)

UW: <https://www.washington.edu/news/2020/11/05/new-global-archive-logs-changes-in-behavior-of-arctic-animals/>

Columbia University: <https://blogs.ei.columbia.edu/2020/11/05/new-global-archive-helps-researchers-chart-changes-arctic-animals-behavior/>

William and Mary University: <https://www.wm.edu/news/stories/2020/in-science-ccbs-bird-tracking-data-added-to-arctic-animal-movement-archive.php>