

# Metadata

<b>Title</b>	The Response of extratropical cyclone propagation in the Northern Hemisphere to global warming
	Abstract
<b>Publication general type</b>	journal article
<b>Project Name</b>	[4d4cbb98-ee92-4bb0-8765-31c68b4e96e0]
<b>Keyword Vocabulary</b>	
<b>Keyword Vocabulary URL</b>	
<b>Theme</b>	
<b>Version</b>	1.0
<b>Publisher</b>	Journal of Climate
<b>Date Published</b>	2023
<b>DOI</b>	10.1175/jcli-d-23-0082.1
<b>Authors</b>	
<b>Authors 1</b>	
<b>Author Name</b>	Crawford, Alex
<b>Type of Name</b>	Personal
<b>Email</b>	
<b>Affiliation</b>	
<b>ORCID ID</b>	
<b>Authors 2</b>	
<b>Author Name</b>	McCrystall, Michelle
<b>Type of Name</b>	Personal
<b>Email</b>	
<b>Affiliation</b>	
<b>ORCID ID</b>	

### Authors 3

**Author Name** Lukovich, Jennifer

**Type of Name** Personal

**Email**

**Affiliation**

**ORCID ID**

### Authors 4

**Author Name** Stroeve, Julienne

**Type of Name** Personal

**Email**

**Affiliation**

**ORCID ID**

**License Name**

**Licence Type**

**Licence Schema Name**

SPDX

**Licence URL**

<https://spdx.org/licenses>

### Awards

#### Awards 1

**Funded by**

**Website**

**Funder Name**

**Funder Identifier Code**

**Funder Identifier Type**

**Funder Identifier Scheme**

**Grant Number**

## Related Resources

### Related Resources 1

Related Resource Name

Identifier Code

Identifier Type

Relationship to this publication

Online Resource

Type

Series Name

Language

## Data and Resources

<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/d44acc5d-ecab-4eab-bd8a-a4bd5669d212/resource/c376c79f-6893-414b-9c6a-1698ad264cb4/download/crawford-the-response-of-extratropical-cyclone-propagation-in-the-northern-hemisphere-to-global-.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/d44acc5d-ecab-4eab-bd8a-a4bd5669d212/resource/c376c79f-6893-414b-9c6a-1698ad264cb4/download/crawford-the-response-of-extratropical-cyclone-propagation-in-the-northern-hemisphere-to-global-.pdf</a>
<b>Name</b>	The Response of extratropical cyclone propagation in the Northern Hemisphere to global warming
<b>Description</b>	Extratropical storms are common sources of natural hazards like heavy rain and high winds. In our analysis of projections from 18 climate models, we find that winter storms tend to move more slowly over midlatitude North America and the Arctic as the world warms but move faster over the North Pacific Ocean and part of Europe. Slight slowing of summer storms is projected throughout much of the midlatitudes. When storms move slower, their attendant hazards (like heavy precipitation) last longer for the areas they impact. Further, Atlantic winter storms travel more west to east instead of southwest to northeast, so they impact Iceland less often and the British Isles more often. Changes become more dramatic with each additional degree of global warming.
<b>Format</b>	PDF
<b>Resource Category</b>	documents

## Related Datasets

<b>Title</b>	Northern Hemisphere Extratropical Cyclone Tracks from ERA-5
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/en/dataset/nsidc-extratropical-cyclone-tracking-cnect">https://canwin-datahub.ad.umanitoba.ca/data/en/dataset/nsidc-extratropical-cyclone-tracking-cnect</a>