

# Metadata

<b>Dataset Name</b>	Projections and Physical Drivers of Extreme Precipitation in Greenland & Baffin Bay
<b>Dataset General Type</b>	Climate model
<b>Dataset Type</b>	Dataset
<b>Dataset Level</b>	2
<b>Program Website</b>	
<b>Keyword Vocabulary</b>	
<b>Keyword Vocabulary URL</b>	
<b>Theme</b>	
<b>Dataset Status</b>	In Progress
<b>Maintenance and Update Frequency</b>	Not planned
<b>Dataset Last Revision Date</b>	2024-04-30
<b>Dataset DOI</b>	
<b>Metadata Creation Date</b>	2024
<b>Publisher</b>	CanWIN
<b>Dataset Authors</b>	
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**ORCID ID**

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**Dataset Collection Start Date** 1979-01-01

**Dataset Collection End Date** 2100-01-01

**Sample Collection**

**Sample Collection 1**

**Sampling Instrument Name**

**Standardized  
Sampling  
Instrument  
Name**

**Sample  
Collection  
Method Name**

**Comment**

**Method Link**

**Method  
Summary**

**Method  
Description  
Type**      Methods

**Activity  
Collection  
Type**

**Preferred  
citation**

**Analytical  
Instrument**

**Analytical  
Instrument 1**

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Instrument  
Name**

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Instrument  
Name**

**Analytical  
Instrument  
Identifier Id**

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Instrument  
Title Type**      Alternative Title

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Instrument  
Identifier Type**

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Method**

**Analytical  
Method 1**

**Analytical  
Method Name**

**Method Link**

**Method  
Summary**

**Laboratory**

**Comments**

**Variables  
Measured**

**License  
Name** Creative Commons Attribution 4.0 International

**Licence  
Type** Open

**Embargo  
Date**

**Licence URL** <https://spdx.org/licenses>

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## **Awards**

### **Awards 1**

**Award Title**

**Website**

**Funder Name**

**Funder  
Identifier Code**

**Funder  
Identifier Type**

**Funder  
Identifier  
Scheme**

**Grant Number**

## Related Resources

### Related Resources 1

Related Resource Name

Resource Code

Identifier Type

Relationship To This Dataset

Resource Type    Online Resource

Type

Series Name

## Publications

### Publications 1

Publication Name

Identifier Code

Identifier Type

Relationship to this dataset

Resource Type    Online Resource

Publication Type

## Spatial regions

greenland

## Spatial extent West Bound Longitude

## Spatial extent East Bound Longitude

**Spatial  
extent South  
Bound  
Latitude**

**Spatial  
extent North  
Bound  
Latitude**

## Data and Resources

<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/d05ffeb0-3f3f-4753-bc79-c7ac0a01b130/download/readme.docx">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/d05ffeb0-3f3f-4753-bc79-c7ac0a01b130/download/readme.docx</a>
<b>Name</b>	README
<b>Description</b>	Additional metadata for files in this dataset (e.g., variable and unit explanations).
<b>Format</b>	DOCX
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/043937f6-4fa4-4c47-981a-249e81d7a306/download/regional_monthly_total_ex_precip.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/043937f6-4fa4-4c47-981a-249e81d7a306/download/regional_monthly_total_ex_precip.csv</a>
<b>Name</b>	Regional Monthly Total Extreme Precipitation
<b>Description</b>	Average monthly accumulations from extreme precipitation days in each subregion. Columns: subregion – name of subregion month – month (1-12) hist – subregion mean monthly accumulation from extreme days in VR-CESM HIST [mm] fut – subregion mean monthly accumulation from extreme days in VR-CESM FUT [mm] era – subregion mean monthly accumulation from extreme days in ERA5 [mm]
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/1e939c7e-5b09-4c1e-a125-fee3b00e4a5e/download/subregion_mean_ex_thres.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/1e939c7e-5b09-4c1e-a125-fee3b00e4a5e/download/subregion_mean_ex_thres.csv</a>
<b>Name</b>	Subregion Mean Extreme Threshold
<b>Description</b>	Average extreme daily precipitation thresholds for each dataset for each subregion. Columns: subregion – name of subregion hist – extreme daily precipitation threshold for VR-CESM HIST [mm] fut – extreme daily precipitation threshold for VR-CESM FUT [mm] era – extreme daily precipitation threshold for ERA5 [mm]
<b>Format</b>	CSV
<b>Resource Category</b>	data

<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/3e584b5b-5b04-4656-8c7b-d9189912e0e5/download/baffin_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/3e584b5b-5b04-4656-8c7b-d9189912e0e5/download/baffin_distribution_5mm.csv</a>
<b>Name</b>	Baffin Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Baffin Island in the domain in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/407ac825-5706-4ae3-8fa7-2f5854782dd6/download/devon_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/407ac825-5706-4ae3-8fa7-2f5854782dd6/download/devon_distribution_5mm.csv</a>
<b>Name</b>	Devon Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Devon Island in the domain in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/04efa958-9723-4885-a29c-7af019b1807b/download/ellesmere_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/04efa958-9723-4885-a29c-7af019b1807b/download/ellesmere_distribution_5mm.csv</a>
<b>Name</b>	Ellesmere Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Ellesmere Island in the domain in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/128b5d90-06cd-4ba8-8e64-61a4d8b27352/download/ne_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/128b5d90-06cd-4ba8-8e64-61a4d8b27352/download/ne_distribution_5mm.csv</a>
<b>Name</b>	Northeast Greenland Distribution - 5 mm



<b>Description</b>	Daily precipitation distribution for Northeast Greenland in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/a253793e-976c-4bd7-a20e-6c5996efc9b6/download/no_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/a253793e-976c-4bd7-a20e-6c5996efc9b6/download/no_distribution_5mm.csv</a>
<b>Name</b>	North Greenland Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for North Greenland in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/8bedafa3-c610-4d9f-8785-4e59518b96de/download/nw_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/8bedafa3-c610-4d9f-8785-4e59518b96de/download/nw_distribution_5mm.csv</a>
<b>Name</b>	Northwest Greenland Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Northwest Greenland in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/392340a8-3b13-405e-8224-92f47b132bf4/download/cw_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/392340a8-3b13-405e-8224-92f47b132bf4/download/cw_distribution_5mm.csv</a>
<b>Name</b>	Central West Greenland Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Central West Greenland in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV

<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/75349ab4-ee15-4579-89d7-3738096adb05/download/se_distribution_5mm.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/75349ab4-ee15-4579-89d7-3738096adb05/download/se_distribution_5mm.csv</a>
<b>Name</b>	Southeast Greenland Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Southeast Greenland in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
<b>Resource Category</b>	data
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<b>Name</b>	Southwest Greenland Distribution - 5 mm
<b>Description</b>	Daily precipitation distribution for Southwest Greenland in 5 mm accumulation bins. Columns: bin – upper value of accumulation bin [mm] hist – number of occurrences of that accumulation in VR-CESM HIST (1980-1999) fut – number of occurrences of that accumulation in VR-CESM FUT (2080-2099) era – number of occurrences of that accumulation in ERA5 (1980-1999) Note: 1 occurrence = 1 day in 1 grid cell
<b>Format</b>	CSV
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<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/bd634cf1-2d24-4f60-a947-ba3d5a73148c/download/historical_era5_annual_values.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/bd634cf1-2d24-4f60-a947-ba3d5a73148c/download/historical_era5_annual_values.nc</a>
<b>Name</b>	Historical Annual Precipitation Values - ERA5
<b>Description</b>	Historical precipitation summary from ERA5. Variables: ann_precip: mean annual precipitation [mm] ex_thres: extreme daily precipitation threshold [mm] ex_precip: mean annual accumulation from extreme precipitation days [mm]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
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<b>Name</b>	Historical Annual Precipitation Values - CESM2.2
<b>Description</b>	Historical precipitation summary from CESM2.2. Variables: ann_precip: mean annual precipitation [mm] ex_thres: extreme daily precipitation threshold [mm]

<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/aa657756-48a6-47df-93c8-f6f42ecf340b/download/historical_vrcesm_annual_values.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/aa657756-48a6-47df-93c8-f6f42ecf340b/download/historical_vrcesm_annual_values.nc</a>
<b>Name</b>	Historical Annual Precipitation Values - VR-CESM HIST
<b>Description</b>	Historical precipitation summary from VR-CESM HIST. Variables: ann_precip: mean annual precipitation [mm] ex_thres: extreme daily precipitation threshold [mm] ex_precip: mean annual accumulation from extreme precipitation days [mm]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
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<b>Name</b>	Annual Cyclone Track Density
<b>Description</b>	Average annual cyclone track densities for ERA5 and VR-CESM simulations. Variables: hist_trkdens: average annual track density in VR-CESM HIST [Tracks per 40,000 km2] fut_trkdens: average annual track density in VR-CESM FUT [Tracks per 40,000 km2] era_trkdens: average annual track density in ERA5 [Tracks per 40,000 km2]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/ac39363c-22b1-4671-9166-52c0cab80b52/download/annual_ar_days.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/ac39363c-22b1-4671-9166-52c0cab80b52/download/annual_ar_days.nc</a>
<b>Name</b>	Annual Atmospheric River Days
<b>Description</b>	Average annual number of days each grid cell is impacted by an AR for ERA5 and VR-CESM simulations. Variables: hist_ar_days: average annual number of AR days in VR-CESM HIST [days/year] fut_ar_days: average annual number of AR days in VR-CESM FUT [days/year] era_ar_days: average annual number of AR days in ERA5 [days/year]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/7598c824-c749-4140-a9b8-e1990887c7b5/download/annual_ex_day_associations.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/7598c824-c749-4140-a9b8-e1990887c7b5/download/annual_ex_day_associations.nc</a>
<b>Name</b>	Annual Extreme Precipitation Association with Cyclones and Atmospheric Rivers

<b>Description</b>	Percent of all annual extreme precipitation days in each grid cell occurring with a cyclone and/or an AR present in the same grid cell for ERA5 and VR-CESM simulations. Variables: hist_ex_cap: percent of all extreme precipitation days in VR-CESM HIST occurring with a cyclone present (i.e., cyclone-associated precipitation (CAP)) [%] hist_ex_ar_cap: percent of all extreme precipitation days in VR-CESM HIST occurring with both a cyclone and an AR present [%] hist_ex_ar: percent of all extreme precipitation days in VR-CESM HIST occurring with an AR present [%] fut_ex_cap: percent of all extreme precipitation days in VR-CESM FUT occurring with a cyclone present (i.e., cyclone-associated precipitation (CAP)) [%] fut_ex_ar_cap: percent of all extreme precipitation days in VR-CESM FUT occurring with both a cyclone and an AR present [%] fut_ex_ar: percent of all extreme precipitation days in VR-CESM FUT occurring with an AR present [%]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/222e5af4-93c6-46a1-a938-5575a0b3d425/download/seasonal_cyclone_track_density_jfm.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/222e5af4-93c6-46a1-a938-5575a0b3d425/download/seasonal_cyclone_track_density_jfm.nc</a>
<b>Name</b>	Winter (JFM) Cyclone Track Density
<b>Description</b>	Average seasonal cyclone track densities for JFM (winter) for ERA5 and VR-CESM simulations. Variables: hist_trkdens: average seasonal track density in VR-CESM HIST [Tracks per 40,000 km <sup>2</sup> ] fut_trkdens: average seasonal track density in VR-CESM FUT [Tracks per 40,000 km <sup>2</sup> ] era_trkdens: average seasonal track density in ERA5 [Tracks per 40,000 km <sup>2</sup> ]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/e2fcd9a2-04ab-4ebb-9861-d6246e2ea132/download/seasonal_cyclone_track_density_jas.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/e2fcd9a2-04ab-4ebb-9861-d6246e2ea132/download/seasonal_cyclone_track_density_jas.nc</a>
<b>Name</b>	Summer (JAS) Cyclone Track Density
<b>Description</b>	Average seasonal cyclone track densities for JAS (summer) for ERA5 and VR-CESM simulations. Variables: hist_trkdens: average seasonal track density in VR-CESM HIST [Tracks per 40,000 km <sup>2</sup> ] fut_trkdens: average seasonal track density in VR-CESM FUT [Tracks per 40,000 km <sup>2</sup> ] era_trkdens: average seasonal track density in ERA5 [Tracks per 40,000 km <sup>2</sup> ]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/9431a6d8-785c-4c33-a70e-00f76e9c477c/download/seasonal_ar_days_jfm.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/9431a6d8-785c-4c33-a70e-00f76e9c477c/download/seasonal_ar_days_jfm.nc</a>
<b>Name</b>	Winter (JFM) Atmospheric River Days
<b>Description</b>	Average seasonal number of days each grid cell is impacted by an AR for JFM (winter) for ERA5 and VR-CESM simulations. Variables: hist_ar_days: average seasonal number of AR days in VR-CESM HIST [days/year] fut_ar_days: average seasonal number of AR days in VR-CESM FUT [days/year] era_ar_days: average seasonal number of AR days in ERA5 [days/year]

<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/bbd39a4a-5697-4092-82b8-28497670c294/download/seasonal_ar_days_jas.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/bbd39a4a-5697-4092-82b8-28497670c294/download/seasonal_ar_days_jas.nc</a>
<b>Name</b>	Summer (JAS) Atmospheric River Days
<b>Description</b>	Average seasonal number of days each grid cell is impacted by an AR for JAS (summer) for ERA5 and VR-CESM simulations. Variables: hist_ar_days: average seasonal number of AR days in VR-CESM HIST [days/year] fut_ar_days: average seasonal number of AR days in VR-CESM FUT [days/year] era_ar_days: average seasonal number of AR days in ERA5 [days/year]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/ac927af2-7387-4265-8ef1-6cf10c9860b3/download/seasonal_ex_day_associations_jfm.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/ac927af2-7387-4265-8ef1-6cf10c9860b3/download/seasonal_ex_day_associations_jfm.nc</a>
<b>Name</b>	Winter (JFM) Extreme Precipitation Association with Cyclones and Atmospheric Rivers
<b>Description</b>	Percent of all extreme precipitation days in winter (JFM) in each grid cell occurring with a cyclone and/or an AR present in the same grid cell for ERA5 and VR-CESM simulations. Variables: hist_ex_cap: percent of all seasonal extreme precipitation days in VR-CESM HIST occurring with a cyclone present (i.e., cyclone-associated precipitation (CAP)) [%] hist_ex_ar_cap: percent of all seasonal extreme precipitation days in VR-CESM HIST occurring with both a cyclone and an AR present [%] hist_ex_ar: percent of all seasonal extreme precipitation days in VR-CESM HIST occurring with an AR present [%] fut_ex_cap: percent of all seasonal extreme precipitation days in VR-CESM FUT occurring with a cyclone present (i.e., cyclone-associated precipitation (CAP)) [%] fut_ex_ar_cap: percent of all seasonal extreme precipitation days in VR-CESM FUT occurring with both a cyclone and an AR present [%] fut_ex_ar: percent of all seasonal extreme precipitation days in VR-CESM FUT occurring with an AR present [%]
<b>Format</b>	NetCDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/5ca63370-e37a-4f88-b441-098fd327d7ac/download/seasonal_ex_day_associations_jas.nc">https://canwin-datahub.ad.umanitoba.ca/data/dataset/e31ea507-a9b1-4d22-a685-a55e696fd249/resource/5ca63370-e37a-4f88-b441-098fd327d7ac/download/seasonal_ex_day_associations_jas.nc</a>
<b>Name</b>	Summer (JAS) Extreme Precipitation Association with Cyclones and Atmospheric Rivers

**Description**

Percent of all extreme precipitation days in summer (JAS) in each grid cell occurring with a cyclone and/or an AR present in the same grid cell for ERA5 and VR-CESM simulations. Variables: hist\_ex\_cap: percent of all seasonal extreme precipitation days in VR-CESM HIST occurring with a cyclone present (i.e., cyclone-associated precipitation (CAP)) [%] hist\_ex\_ar\_cap: percent of all seasonal extreme precipitation days in VR-CESM HIST occurring with both a cyclone and an AR present [%] hist\_ex\_ar: percent of all seasonal extreme precipitation days in VR-CESM HIST occurring with an AR present [%] fut\_ex\_cap: percent of all seasonal extreme precipitation days in VR-CESM FUT occurring with a cyclone present (i.e., cyclone-associated precipitation (CAP)) [%] fut\_ex\_ar\_cap: percent of all seasonal extreme precipitation days in VR-CESM FUT occurring with both a cyclone and an AR present [%] fut\_ex\_ar: percent of all seasonal extreme precipitation days in VR-CESM FUT occurring with an AR present [%]

**Format**

NetCDF

**Resource Category**

data