

Metadata

Field	Value
Dataset Name	Extreme precipitation days and their impact on surface mass balance in Greenland and the Baffin Bay region
Dataset General Type	climate model output
Dataset Type	Dataset
Dataset Level	2
Program Website	https://umanitoba.ca/earth-observation-science/climate-investigations-canadian-arctic-storm-systems
Keyword Vocabulary	
Keyword Vocabulary URL	
Theme	
Dataset Status	Complete
Maintenance and Update Frequency	Not planned
Dataset Last Revision Date	2025-09-02
Dataset DOI	
Metadata Creation Date	2025

Field	Value
Publisher	CanWIN
Dataset Authors	
Dataset Authors 1	
Name	Loeb, Nicole
Type of Name	Personal
Email	
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	0000-0003-3852-5913
	ORCID
	http://orcid.org/
Dataset Authors 2	
Name	Crawford, Alex
Type of Name	Personal
Email	alex.crawford@umanitoba.ca
Affiliation	Centre for Earth Observation Science - University of Manitoba

Field	Value
ORCID ID	0000-0003-1561-290X
	ORCID
	http://orcid.org/
Dataset Authors 3	
Name	Stroeve, Julianne
Type of Name	Personal
Email	
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	
Contributors	
Contributors 1	
Name	
Role	
Email	
Affiliation	
ORCID ID	

Field	Value
Project Data Curator	Crawford, Alex
Project Data Curator email	alex.crawford@umanitoba.ca
Project Data Curator Affiliation	Centre for Earth Observation Science - University of Manitoba
Dataset Collection Start Date	1980-01-01
Dataset Collection End Date	2098-12-31
Sample Collection Sample Collection 1 Sampling Instrument Name Standardized Sampling Instrument Name Sample Collection Method Name Comment Method Link Method Summary Method Description Type	
Activity Collection Type	
Preferred citation	
Analytical Instrument	

Field	Value
Analytical Instrument 1	
Analytical Instrument Name	
Standardized Analytical Instrument Name	
Analytical Instrument Identifier Id	
Analytical Instrument Title Type	Alternative Title
Analytical Instrument Identifier Type	
Analytical Method	
Analytical Method 1	
Analytical Method Name	
Method Link	
Method Summary	
Laboratory	
Comments	
Variables Measured	
Licence Name or Copyright Statement	Creative Commons Attribution 4.0 International
Copyright Statement	
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses

Field	Value
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Terms of Use	By accessing this data you agree to [CanWIN's Terms of Use](/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).
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	

Field	Value
Relationship To This Dataset	
Resource Type	Online Resource
Type	
Series Name	
Publications	
Publications 1	
Publication Name	Projections and Physical Drivers of Extreme Precipitation in Greenland & Baffin Bay
Identifier Code	10.1029/2024JD041375
Identifier Type	DOI
Relationship to this dataset	Describes
Resource Type	Online Resource
Publication Type	JournalArticle
Spatial regions	greenland
Spatial extent West Bound Longitude	
Spatial extent East Bound Longitude	
Spatial extent South Bound Latitude	

Field	Value
Spatial extent North Bound Latitude	

Data and Resources

Field	Value
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/aac39d3f-f857-4a68-904d-3a550b83a376/resource/7f79163d-0cd8-43b5-84c2-0fefec37fe9e/download/extreme-precipitation-events-and-smb-greenland-baffin-bay.zip
Name	Extreme-Precipitation-Events-and-SMB-Greenland-Baffin-Bay.zip
Description	See the README_vrcesm_data file for full details of files contained within this zipped folder. There are 10 netcdf files and NetCDF file descriptions: 1. vrcesm_ablation_zones.nc: mean ablation zone in the domain in HIST and FUT 2. vrcesm_ex_contribution_to_seas_smb_DJFM.nc & vrcesm_ex_contribution_to_seas_smb_JJAS.nc: Fractional contribution of extreme precipitation days to seasonal positive/negative SMB 3. vrcesm_hist_ex_neg_smb_days_anoms_JJAS.nc, vrcesm_hist_ex_pos_smb_days_anoms_JJAS.nc, vrcesm_fut_ex_neg_smb_days_anoms_JJAS.nc, vrcesm_fut_ex_pos_smb_days_anoms_JJAS.nc: Mean SMB-related variable anomalies relative to ± 15 days CSV File Descriptions: 1. vrcesm_mean_monthly_ex_precip_accum.csv: mean monthly precipitation accumulations from extreme precipitation days for each subregion 2. vrcesm_ex_and_nonex_monthly_rainfrac (folder with 9 files): mean monthly rain fraction for extreme and non-extreme precipitation in each subregion. Each csv file is for a single subregion. 3. vrcesm_ex_nonex_scatter_data (folder with 18 files): yearly seasonal mean SMB on extreme and non-extreme days from HIST and FUT. Each csv file is for a single subregion for DJFM or JJAS.
Format	NetCDF

Field	Value
Resource Category	data