

Metadata

Dataset Name	Northern Hemisphere Extratropical Cyclone Tracks
Dataset General Type	cyclone tracks
Dataset Type	Dataset
Dataset Level	1.1
Program Website	
Keyword Vocabulary	
Keyword Vocabulary URL	
Theme	
Dataset Status	Complete
Maintenance and Update Frequency	As needed
Dataset Last Revision Date	2020-10-13
Dataset DOI	
Metadata Creation Date	2023
Publisher	CanWIN
Dataset Authors	
Dataset Authors 1	

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Dataset Collection Start Date 1979-01-01

Dataset Collection End Date 2020-10-13

Sample Collection

Activity Collection Type	
Preferred citation	Copernicus Climate Change Service (C3S). (2017). ERA5: Fifth generation of ECMWF atmospheric reanalyses of the global climate. Copernicus Climate Change Service Climate Data Store (CDS). https://cds.climate.copernicus.eu/cdsapp#!/home
Analytical Instrument 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	
License Name	Creative Commons Attribution 4.0 International
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses
Terms of Access	CanWIN datasets are licensed individually, however most are licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0) Public License. Details for the licence applied can be found using the Licence URL link provided with each dataset. By using data and information provided on this site you accept the terms and conditions of the License. Unless otherwise specified, the license grants the rights to the public to use and share the data and results derived therefrom as long as the proper acknowledgment is given to the data licensor (citation), that any alteration to the data is clearly indicated, and that a link to the original data and the license is made available.

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Awards

Related Resources

Related Resources 1

Related Resource Name Mean Pressure at Sea-level from ERA-5

Resource Code

Identifier Type URL

Relationship To This Dataset IsRequiredBy

Resource Type Online Resource

Type Model

Series Name

Related Resources 2

Related Resource Name ETOPO1 Ice Surface

Resource Code

Identifier Type

Relationship To This Dataset IsReferencedBy

Resource Type Online Resource

Type

Series Name

Related Resources 3

Related Resource Name CEOS/NSIDC Cyclone Detection and Tracking Algorithm

Resource Code 10.5281/zenodo.5553339

Identifier Type DOI

Relationship To This Dataset	IsRequiredBy
Resource Type	Online Resource
Type	Software
Series Name	

Publications

Publications 1

Publication Name	Does the summer Arctic Frontal Zone influence Arctic Ocean cyclone activity?
Identifier Code	doi:10.1175/JCLI-D-15-0755.s1
Identifier Type	DOI
Relationship to this dataset	IsSupplementedBy
Resource Type	Online Resource
Publication Type	JournalArticle

Publications 2

Publication Name	Projected Changes in the Arctic Frontal Zone and Summer Arctic Cyclone Activity in the CESM Large Ensemble
Identifier Code	doi:10.1175/JCLI-D-17-0296.1
Identifier Type	DOI
Relationship to this dataset	IsSupplementedBy
Resource Type	Online Resource
Publication Type	JournalArticle

Publications 3

Publication Name	Synoptic Climatology of Rain-on-Snow Events in Alaska
Identifier Code	doi:10.1175/MWR-D-19-0311.s1
Identifier Type	DOI
Relationship to this dataset	IsSupplementedBy
Resource Type	Online Resource
Publication Type	JournalArticle

Publications 4

Publication Name Estimating Southern Ocean Storm Positions With Seismic Observations

Identifier Code doi:10.1029/2019JC015898

Identifier Type DOI

Relationship to this dataset IsSupplementedBy

Resource Type Online Resource

Publication Type JournalArticle

Publications 5

Publication Name Sea ice loss and Arctic cyclone activity from 1979 to 2014

Identifier Code doi:10.1175/JCLI-D-16-0542.1

Identifier Type DOI

Relationship to this dataset IsSupplementedBy

Resource Type Online Resource

Publication Type JournalArticle

Publications 6

Publication Name Impacts of synoptic-scale cyclones on Arctic sea-ice concentration: a systematic analysis

Identifier Code doi:10.1017/aog.2020.23

Identifier Type DOI

Relationship to this dataset IsSupplementedBy

Resource Type Online Resource

Publication Type JournalArticle

Publications 7

Publication Name Sensitivity of Northern Hemisphere Cyclone Detection and Tracking Results to Fine Spatial and Temporal Resolution Using ERA5

Identifier Code <https://journals.ametsoc.org/view/journals/mwre/149/8/MWR-D-20-0417.1.xml>

Identifier Type URL

Relationship to this dataset IsCitedBy

Resource Type Online Resource

Publication Type JournalArticle

Publications 8

Publication Name	The Influence of the Arctic Frontal Zone on Summer Cyclone Activity Today and in the Future (Doctoral Dissertation)
Identifier Code	https://scholar.colorado.edu/concern/graduate_thesis_or_dissertations/6395w720f
Identifier Type	URL
Relationship to this dataset	IsContinuedBy
Resource Type	Online Resource
Publication Type	Dissertation

Spatial regions northern-hemisphere

Spatial extent West Bound Longitude -180.0

Spatial extent East Bound Longitude 180.0

Spatial extent South Bound Latitude 0.0

Spatial extent North Bound Latitude 90.0

Data and Resources

URL <https://zenodo.org/record/5553339#.YZ1WWL3MJhG>

Name CEOS/NSIDC Extratropical Cyclone Tracking (CNECT) Algorithm

Description This algorithm has two steps: 1) detection of cyclone centers and areas and 2) tracking of those features. Center detection is based on local minima in sea-level pressure (within a 200 km radius) that have a pressure gradient of at least 7.5 hPa/1000 km. The area of storms and presence of single- and multi-center cyclones are determined using last-closed isobars. Tracking is based on the nearest neighbor to a predicted cyclone propagation location. Cyclone size, intensity, propagation, and interactions (e.g., splitting and merging with other storms) are tabulated at each observation time.

Format	
Resource Category	scripts
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/d75eaca0-1970-4187-980b-4615f031d56a/download/1979.zip
Name	NH Extratropical Cyclone Tracks - 1979
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1979
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/3a4dbf24-d4de-4d97-84c6-fced12ae87ec/download/1980.zip
Name	NH Extratropical Cyclone Tracks - 1980
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1980
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/cc2e2be0-22ba-4170-a026-2dc9bfb2c081/download/1981.zip
Name	NH Extratropical Cyclone Tracks - 1981
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1981
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/66e9213f-3526-4f8b-8d50-367397470c4d/download/1982.zip
Name	NH Extratropical Cyclone Tracks - 1982
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1982
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/8e605398-233a-44e3-8632-0fbb208f9db8/download/1983.zip

Name	NH Extratropical Cyclone Tracks - 1983
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1983
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/6f5a9492-0ee6-4108-833f-c4529102d38b/download/1993.zip
Name	NH Extratropical Cyclone Tracks - 1993
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1993
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/f0864df3-ad96-4f3e-9f77-2caafb6685ff/download/1984.zip
Name	NH Extratropical Cyclone Tracks - 1984
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1984
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/36769ac5-6801-455a-916a-d1cb70699a98/download/1985.zip
Name	NH Extratropical Cyclone Tracks - 1985
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1985
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/349db098-3e21-41a4-847a-09a13330e747/download/1986.zip
Name	NH Extratropical Cyclone Tracks - 1986
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1986
Format	ZIP

Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/2f1a0661-56d5-4a12-8d77-fc1bbef067ca/download/1987.zip
Name	NH Extratropical Cyclone Tracks - 1987
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1987
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/db72130d-5d6e-49ca-8fd3-56cfe4a56645/download/1988.zip
Name	NH Extratropical Cyclone Tracks - 1988
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1988
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/9e1271c4-45c9-47f9-89b9-3bad206a50a3/download/1989.zip
Name	NH Extratropical Cyclone Tracks - 1989
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1989
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/8dc0f563-4842-4536-a815-e1dfa674d5b2/download/1998.zip
Name	NH Extratropical Cyclone Tracks - 1998
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1998
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/8ecc7a46-43fd-48ba-a5a5-62899b164805/download/1990.zip
Name	NH Extratropical Cyclone Tracks - 1990

Description	Northern Hemisphere Extratropical Cyclone Tracks - 1990
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/32e95210-6146-43db-864b-474d12c8f7d3/download/1991.zip
Name	NH Extratropical Cyclone Tracks - 1991
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1991
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/c78f7bd3-4100-4e16-b010-379825e60248/download/1992.zip
Name	NH Extratropical Cyclone Tracks - 1992
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1992
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/78e99d4e-e669-42a1-89a4-0d8f2a70815c/download/1993.zip
Name	NH Extratropical Cyclone Tracks - 1993
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1993
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/eea16301-eb1c-43ef-a143-fc728372565d/download/nh-extratropical-cyclone-tracks-1994.zip
Name	NH Extratropical Cyclone Tracks - 1994
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1994
Format	ZIP
Resource Category	data

URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/cd585185-2ce1-4d8f-b4b8-e1403697aa7b/download/1995.zip
Name	NH Extratropical Cyclone Tracks - 1995
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1995
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/3abbe9b1-3611-46b1-8c0d-d7536e65b2a1/download/1996.zip
Name	NH Extratropical Cyclone Tracks - 1996
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1996
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/150b5a06-db3f-4213-b3b7-215883e7eeac/download/1997.zip
Name	NH Extratropical Cyclone Tracks - 1997
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1997
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/fd988edc-ab9d-485d-8a15-a5a9623e6112/download/1999.zip
Name	NH Extratropical Cyclone Tracks - 1999
Description	Northern Hemisphere Extratropical Cyclone Tracks - 1999
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/f6e6d097-72a0-4f37-891d-dcbf4fcb096e/download/2000.zip
Name	NH Extratropical Cyclone Tracks - 2000
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2000
Format	ZIP

Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/ccd96b80-af0a-4d0f-ac0e-f44ed47d73cb/download/2001.zip
Name	NH Extratropical Cyclone Tracks - 2001
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2001
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/c50661b4-0a33-4e20-aaca-30c2963de8e4/download/2002.zip
Name	NH Extratropical Cyclone Tracks - 2002
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2002
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/a65e6170-a61a-4a33-9501-f6a57ea9d85b/download/2003.zip
Name	NH Extratropical Cyclone Tracks - 2003
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2003
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/ee490c3a-1c3b-4e82-9c80-30f93105e654/download/2004.zip
Name	NH Extratropical Cyclone Tracks - 2004
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2004
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/e394b159-da8c-46d4-bfba-5c37e0e3915b/download/2005.zip
Name	NH Extratropical Cyclone Tracks - 2005

Description	Northern Hemisphere Extratropical Cyclone Tracks - 2005
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/3e399f2c-f0ef-44b9-a964-8f3184e326ef/download/2006.zip
Name	NH Extratropical Cyclone Tracks - 2006
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2006
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/e6cf3cfa-2ff2-40c1-956f-5e486cd45deb/download/nh-extratropical-cyclone-tracks-2007.zip
Name	NH Extratropical Cyclone Tracks - 2007
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2007
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/2afb56c2-b4d4-4ab6-afad-972bd7484bc6/download/2008.zip
Name	NH Extratropical Cyclone Tracks - 2008
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2008
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/4f3aefa0-eb06-4e92-85e1-c6d4136e80d3/download/2009.zip
Name	NH Extratropical Cyclone Tracks - 2009
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2009
Format	ZIP
Resource Category	data

URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/dcc2b9e4-a8bf-4344-87f5-2de48e6a68e6/download/nh-extratropical-cyclone-tracks-2010.zip
Name	NH Extratropical Cyclone Tracks - 2010
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2010
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/b39675c2-5638-4de9-880c-9fed1366a1f6/download/2011.zip
Name	NH Extratropical Cyclone Tracks - 2011
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2011
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/70cfeafc-c15c-4ccb-a629-045357d403a8/download/2012.zip
Name	NH Extratropical Cyclone Tracks - 2012
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2012
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/07117f35-80cc-48d7-85d7-05497351f3bd/download/2013.zip
Name	NH Extratropical Cyclone Tracks - 2013
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2013
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/bb402644-0bb6-42ae-a7a8-75d4e5498b8c/download/2014.zip
Name	NH Extratropical Cyclone Tracks - 2014
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2014

Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/fc674619-fba0-4e6f-91bd-5afe2f08789d/download/2015.zip
Name	NH Extratropical Cyclone Tracks - 2015
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2015
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/93be68d3-2e6b-4bc5-b133-35b8f719b59b/download/2016.zip
Name	NH Extratropical Cyclone Tracks - 2016
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2016
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/94107887-88e2-4a2e-a5c0-3bc2276f12bb/download/2017.zip
Name	NH Extratropical Cyclone Tracks - 2017
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2017
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/7f7cbb75-4ccc-4231-87db-d9c22b2f0e7b/download/2018.zip
Name	NH Extratropical Cyclone Tracks - 2018
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2018
Format	ZIP
Resource Category	data
URL	https://lwbin-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/f8a9afca-1f37-4dad-8cdb-c7f8f74b352b/download/2019.zip

Name	NH Extratropical Cyclone Tracks - 2019
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2019
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/6612a9ad-c1b1-474a-8261-231a52884094/download/2020.zip
Name	NH Extratropical Cyclone Tracks - 2020
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2020
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/9a32c6dc-14fa-460b-8746-ca0c8ec39177/download/nh-extratropical-cyclone-tracks-2021.zip
Name	NH Extratropical Cyclone Tracks - 2021
Description	Northern Hemisphere Extratropical Cyclone Tracks - 2021
Format	ZIP
Resource Category	data
URL	https://lwbins-dev.ad.umanitoba.ca/data/dataset/4be4d01a-a14b-483f-a1a6-6ead0974fa57/resource/69811381-b58c-4621-b73d-baf1758706f0/download/supplemental-metadata-ac.pdf
Name	Supplemental Metadata
Description	Additional metadata for cyclone tracking data and software.
Format	PDF
Resource Category	documents