Metadata

Field	Value
Dataset Name	Cloud water chemical composition and photoreduction experiment - 2019
Dataset General Type	cloud water data
Dataset Type	Dataset
Dataset Level	1.0
Program Website	
Keyword Vocabulary	Polar Data Catalogue
Keyword Vocabulary URL	https://www.polardata.ca/pdcinput/public/keywordlibrary
Theme	
Title	Atmosphere
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/modelling
Title	Clouds
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/clouds
Dataset Status	Complete
Maintenance and Update Frequency	As needed

Field	Value
Dataset Last Revision Date	2023-03-10
Dataset DOI	10.34992/6KJZ-5H61
Metadata Creation Date	2026
Publisher	CanWIN
Dataset Authors	
Dataset Authors 1	
Name	Gao, Zhiyuan
Type of Name	Personal
Email	gaoz3459@myumanitoba.ca
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ORCID ID	0000-0002-7556-7947
	ORCID
	http://orcid.org/
Dataset Authors 2	
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Field	Value
Type of Name	Personal
Email	brazeku@gmail.com
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	

Dataset Authors 3

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Type of Name	Personal
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Affiliation	Agriculture and Agri Food Canada
ORCID ID	

Contributors

Contributors 1

Name	
Role	
Email	

Field	Value
Affiliation **ORCID ID**	
Project Data Curator	Gao, Zhiyuan
Project Data Curator email	gaoz3459@myumanitoba.ca
Project Data Curator Affiliation	Centre for Earth Observation Science - University of Manitoba
Dataset Collection Start Date	2019-08-28
Dataset Collection End Date	2019-09-13
Sample Collection **Sample Collection 1** **Sampling Instrument Name**	Standard fog collector
Standardized Sampling Instrument Name	
Sample Collection Method Name	Fog collection
Comment **Method Link**	
Method Summary	The fog collector collects passively deposited cloud water samples for experiments and analysis.

Field	Value
Method Description Type	Methods
Activity Collection Type	Field Measurement
Preferred citation	
Analytical Instrument	
Analytical Instrument 1	
Analytical Instrument Name	Tekran 2600 mercury analyzer
Standardized Analytical Instrument Name	
Analytical Instrument Identifier Id	
Analytical Instrument Title Type	Alternative Title
Analytical Instrument Identifier Type	
Analytical Instrument 2	
Analytical Instrument Name	Tekran 2537B mercury analyzer
Standardized Analytical Instrument Name	
Analytical Instrument Identifier Id	
Analytical Instrument Title Type	Alternative Title
Analytical Instrument Identifier Type	
Analytical Method	

Field	Value
Analytical Method 1	
Analytical Method Name	US EPA 1631
Method Link	https://www.epa.gov/sites/default/files/2015-08/documents/method_1631e_2002.pdf
Method Summary	This method measures total and dissolved mercury in water samples.
Laboratory	Ultra-Clean Trace Elements Laboratory (UCTEL), University of Manitoba
Comments	
Variables Measured	
Analytical Method 2	
Analytical Method Name	Mercury analysis with Tekran 2537B mercury analyzer
Method Link	
Method Summary	This Tekran 2537B mercury analyzer detects gaseous elemental mercury in the gas stream and is used for measuring elemental mercury produced from the photoreduction experiment.
Laboratory	Ultra-Clean Trace Elements Laboratory (UCTEL), University of Manitoba
Comments	
Variables Measured	
Licence Name or Copyright Statement	Creative Commons Attribution 4.0 International

Field	Value
Copyright Statement	
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses
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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	Disocery Grant (Cryoreactions and Arctic marine cryospheric chemistry)
Website	https://www.nserc-crsng.gc.ca/index_eng.asp
Funder Name	Natural Sciences and Engineering Council of Canada
Funder Identifier Code	

Field	Value
Funder Identifier Type	
Funder Identifier Scheme	
Grant Number	RGPIN202204136

Awards 2

Award Title	Canada Research Chair in Arctic Environmental Chemistry
Website	https://www.chairs-chaires.gc.ca/home-accueil-eng.aspx
Funder Name	Canada Research Chairs Program
Funder Identifier Code	
Funder Identifier Type	
Funder Identifier Scheme	
Grant Number	950231031

Awards 3

Award Title	University of Manitoba Graduate Fellowship
Website	
Funder Name	University of Manitoba
Funder Identifier Code	
Funder Identifier Type	
Funder Identifier Scheme	

Field	Value
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	spain
Spatial extent West Bound Longitude	
Spatial extent East Bound Longitude	

Field	Value
Spatial extent South Bound Latitude	
Spatial extent North Bound Latitude	

Data and Resources

Field	Value
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b0c65e9c-0b3d-45df-8212-ab559cfe4900/resource/05888d93-dbd5-406b-a179-4919fcd0b69b/download/gao_cloudwater-dataset-for-canwin.xlsx
Name	Cloudwater composition
Description	Cloud water samples collected from Canary Islands, Spain 2019
Format	XLSX
Resource Category	data