

Metadata

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
Dataset Status	Complete
Maintenance and Update Frequency	As needed
Dataset Last Revision Date	2023-03-10
Dataset DOI	10.34992/6KJZ-5H61
Metadata Creation Date	2023
Publisher	CanWIN

Dataset Authors

Dataset Authors 1

Name Gao, Zhiyuan
Type of Name Personal
Email gaoz3459@myumanitoba.ca
Affiliation Carleton Unviersity
ORCID ID 0000-0002-7556-7947
ORCID
<http://orcid.org/>

Dataset Authors 2

Name Bailey, Neal
Type of Name Personal
Email brazeku@gmail.com
Affiliation Centre for Earth Observation Science - University of Manitoba
ORCID ID

Dataset Authors 3

Name Wang, Feiyue
Type of Name Personal
Email feiyue.wang@umanitoba.ca
Affiliation Agriculture and Agri Food Canada
ORCID ID

Contributors

Contributors 1

Name
Role
Email

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.

**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**

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

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 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

Funder Identifier Type

Funder Identifier Scheme

Grant Number RGPIN202204136

Awards 2

Award Title Canada Research Chair in Arctic Environmental Chemistry

Website <https://www.chairs-chaieres.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

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

Spatial extent South Bound Latitude

**Spatial
extent North
Bound
Latitude**

Data and Resources

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