

Updates to INARCH Portion of GWFNet Catalogue



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GWFNet is an information resource and metadata catalogue on water research

GWFNet is a fully searchable, well-indexed **catalogue** of interrelated template-based records with information on datasets, data feeds, publications, models, model outputs, observatories, research sites, stations, and other information related to water research across the programs it serves: GWF, **INARCH**, GWF Observatories along with programs it has served in the past: MAGS, DRI, IP3, CCRN, along with information of a to-be-determined form in the future.

GWFNet allows information and data on water research from the past, present, and future from various possibly overlapping programs to be steadily accumulated, improved, organized (and re-organized), and interrelated through time.

Main Ideas Shaping GWFNet

Decentralized Data – For practical reasons it is best to keep our data decentralized into databases, data feeds, and repositories best suited for the research in question, and track this information through a central catalogue of data

Iterative Improvement – We prefer a flexible data system that can accommodate to-be-perfected and partial data so baseline information can be obtained without delay and enhanced later as time and improved knowledge become available.

Legacy – Process of refinement results a collection of (meta)data which improves with time and becomes tomorrow's legacy. A desirable "today's legacy is tomorrow's future" pattern is intrinsically established – which motivates quality and upkeep.

Continuity – Our collection of Water Research data is a "critical mass" constant which spans and survives intact across different programs (often overlapping each other) and decades, continuing to be relevant, referenced, and improved.

Information to be Tracked in GWFNet

What is out there:

- Research sites/stations
- Detailed inventories on instrumentation/equipment at sites/stations
- Programs/projects
- Data sources/dataset publications/paper publications

Where it is:

- Maps - locations, shapes, bounding boxes
- Repositories (Relational Databases, WISKI, FRDR, GitHub, Zenodo, DataStream, Compute Canada, Web Services)
- Under Embargo or Private (Instructions, “Go talk to Sam and arrange to obtain a copy”)

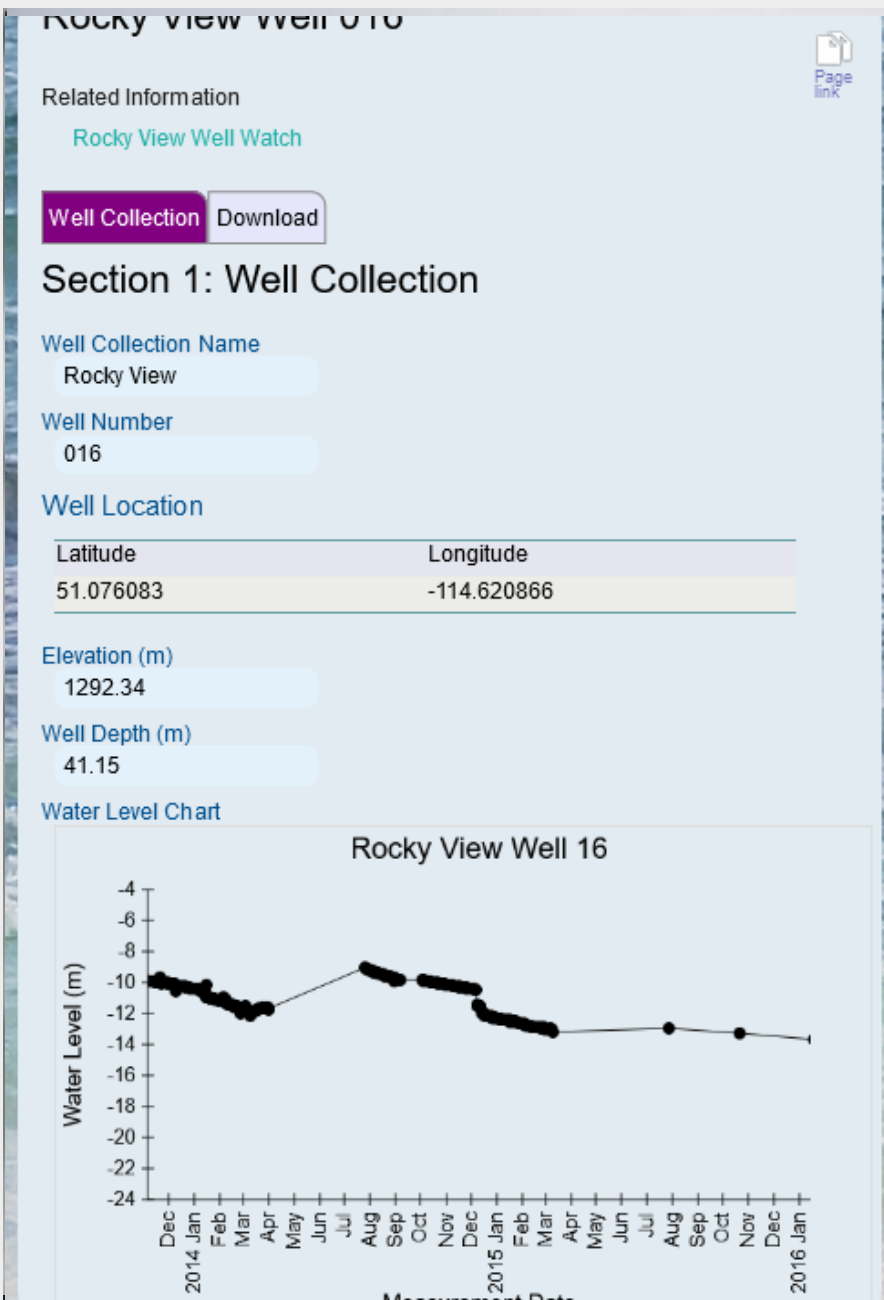
Who is responsible for or has it:

- Authorship, Technicians, Principal Investigators, Model users and creators

Context:

- Context through cross-referencing links and index records to relate above information together

GWFNet Catalogue



GWFNet is a data catalogue originally created for Global Water Futures (GWF) but will prevail well into the future to include and interrelate information from:

- programs prior to GWFO (e.g., MAGS, DRI, IP3, CCRN, INARCH ph1, GWF),
- current programs (e.g., GWF Synthesis/GWFO, INARCH ph2/COPE), and
- future programs (e.g., INARCH ph2, GWFO, Other contributors),

GWFNet contains cross-linked, well-**indexed** records (based on easily defined XML templates controlling visual appearance and database variable content) on:

- **observatories, research sites, stations**
- **models** -- descriptions, workflows, inputs, outputs, database requirements, links to source code, and extra information related to setup and operation
- **datasets, paper publications** -- including DOIs, authorship, abstracts, and download locations,
- **persons** associated with projects, data, datasets, models,
- **projects** within programs, (e.g., Mountain Water Futures within GWF),
- other record types, e.g., **videos** (e.g., locations, model usage, etc.),
- interactive **graphs** (GWFNet-2 to incorporate real-time data from live data sources), and
- any other types of records needed in future (simply add new record templates).
- records based on earlier templates can be transformed into records based on new templates at any time, and all information matching the new template is copied to the new record automatically

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5     TemplateVersion="1.0"
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```



```

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121   <Row>
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```



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Template

General_Information_v1.0.xml

Advanced Op

Alpine_Research_Site.xml

COPE_Catchment_v1.0.xml

Record Title

COPE_Research_Site_v1.0.xml

Dataset_v1.0.xml

Dataset_v1.2.xml

Exemplar_Template_v1.0.xml

Forcing_Data_Descriptor_v1.0.xml

Info

Section 1

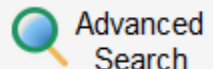
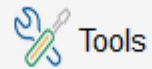
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GWFO_Site_v1.0.xml

General_Information_v1.0.xml

Index_v1.0.xml

Location_Map_Index_v1.0.xml

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Metadata Editor

Template **Alpine_Research_Site.xml**

Alpine Research Site 1.0

Advanced Options

Record Title

Site Overview

Data and Observations

Map of Research Site

Section 1: Site Overview

Identity

Basin / Site Name	
Country; Province/State	

Basin / Site Name	
Country; Province/State	
Website (if available)	
Operational Management	

Oversight/Contacts

	Name	Role	Contact Information
<div> <div></div> <div></div> <div></div> </div>			

Basin / Site Location (Centroid Coordinates)

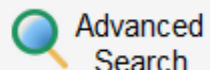
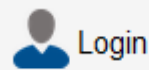
Coordinate Format	Latitude	Longitude
Degrees Minutes Seconds		
Decimal Degrees		

Purpose / Scientific Focus

Purpose / Scientific Focus

Basin / Site Characteristics

Location (Physiographic Region)	
Area (km ²)	
Elevation (m; Mean, Maximum, Minimum)	
Description (Physical–Ecological–Climatic Characteristics)	
Drainage / River System	
Site History or Historical Context	

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Metadata Editor

Template **Alpine_Research_Site.xml**

Alpine Research Site 1.0

Advanced Options

Record Title

Site Overview

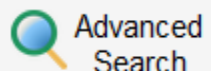
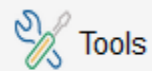
Data and Observations

Map of Research Site

Section 1: Site Overview

Identity

Basin / Site Name	
Country; Province/State	

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Metadata Editor

Template

Alpine_Research_Site.xml

Alpine Research Site 1.0

Advanced Options

Record Title

Site Overview

Data and Observations

Map of Research Site



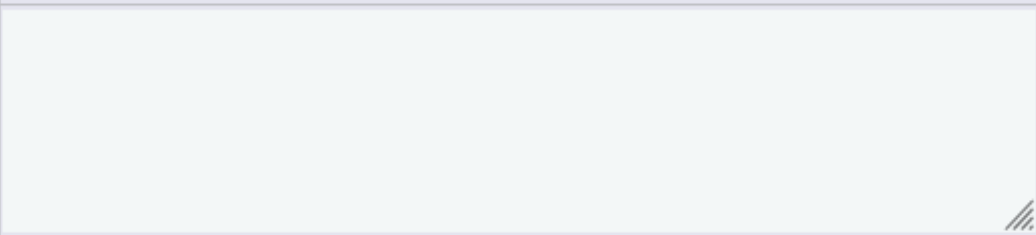
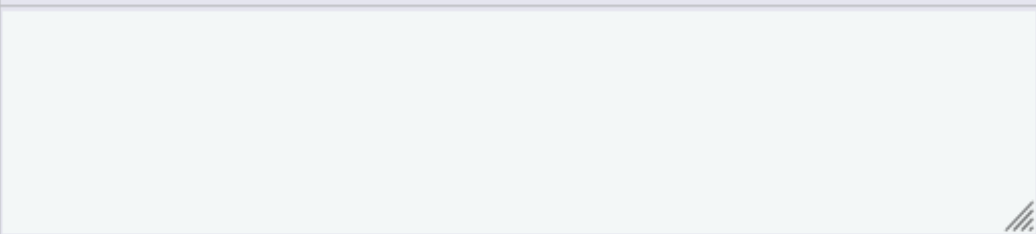
Section 2: Data and Observations

Available Geospatial Data




Digital Elevation Model

Section 2: Data and Observations

Available Geospatial Data

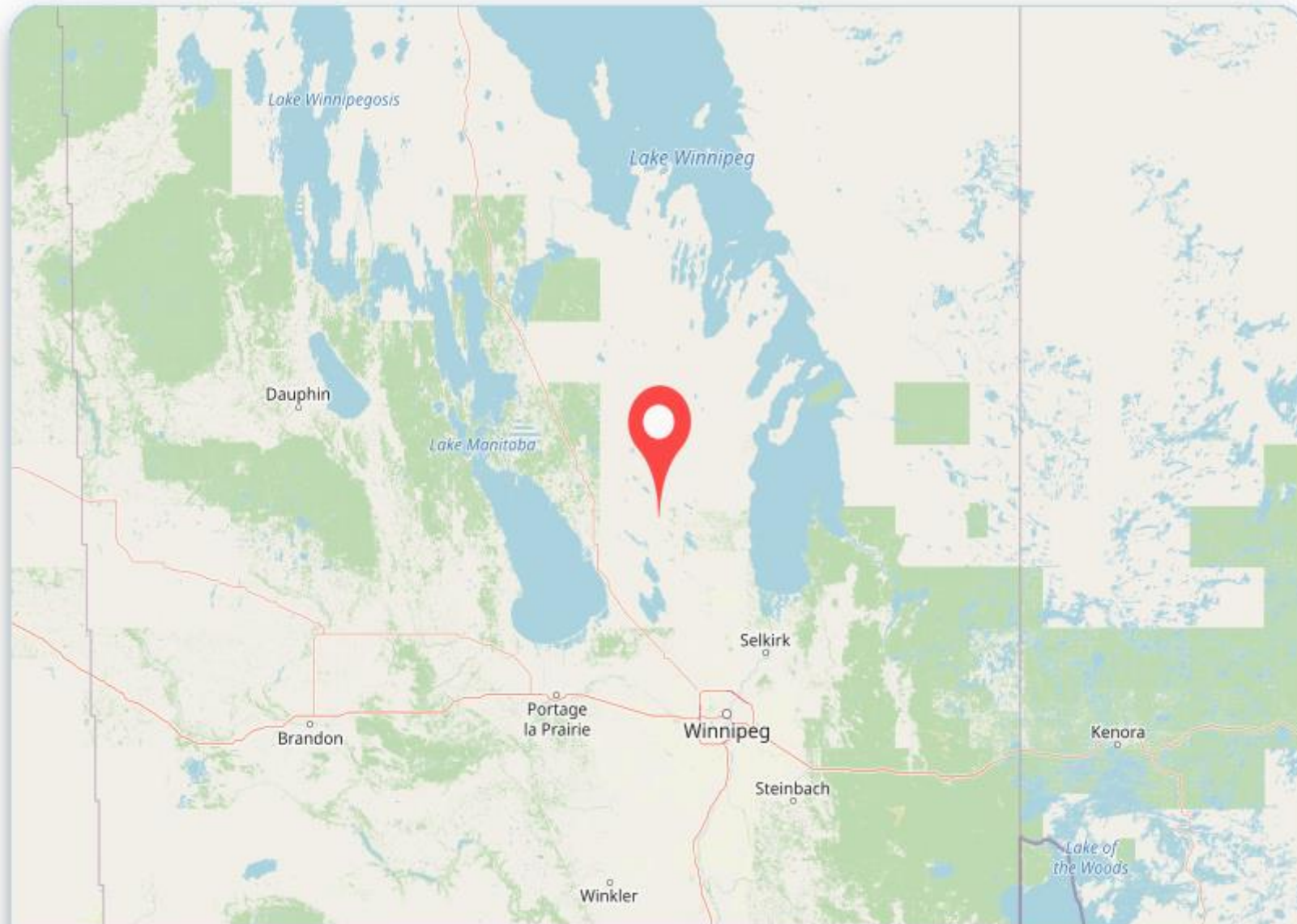
Digital Elevation Model	
Landcover and Soils	
Stream/River Network	
Basin Delineation / Shapefile	


Observation Stations

	Type	Station Name	Latitude	Longitude	Elevation	No
  						

Section 3: Map of Research Site

Map of Research Site





Toggle Interactive

-

+

Center

Reset

Display Default

[View on Global Map](#)

Description:

Latitude:

Longitude:

Clear Lat/Long

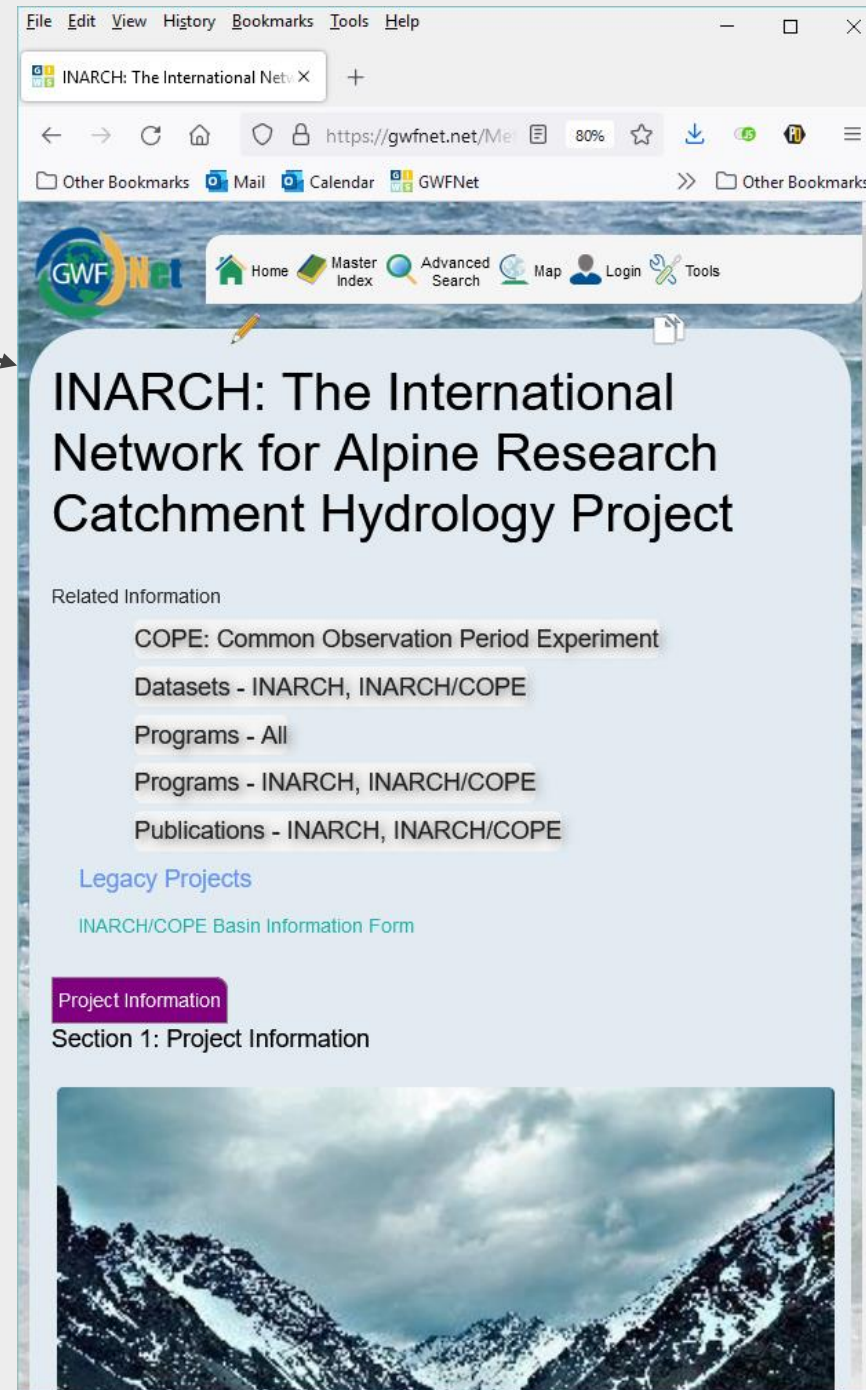
Classification:

Subclassification:

Regions, Bounding Boxes, and Pins:



GWFNet and INARCH/COPE



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Welcome to GWFFNet

Canada's Data Catalogue for Everything Water



GWFFNet

Example: Caraboo Alpine Mesonet

Exact Match

Search-engine Algorithm

Search

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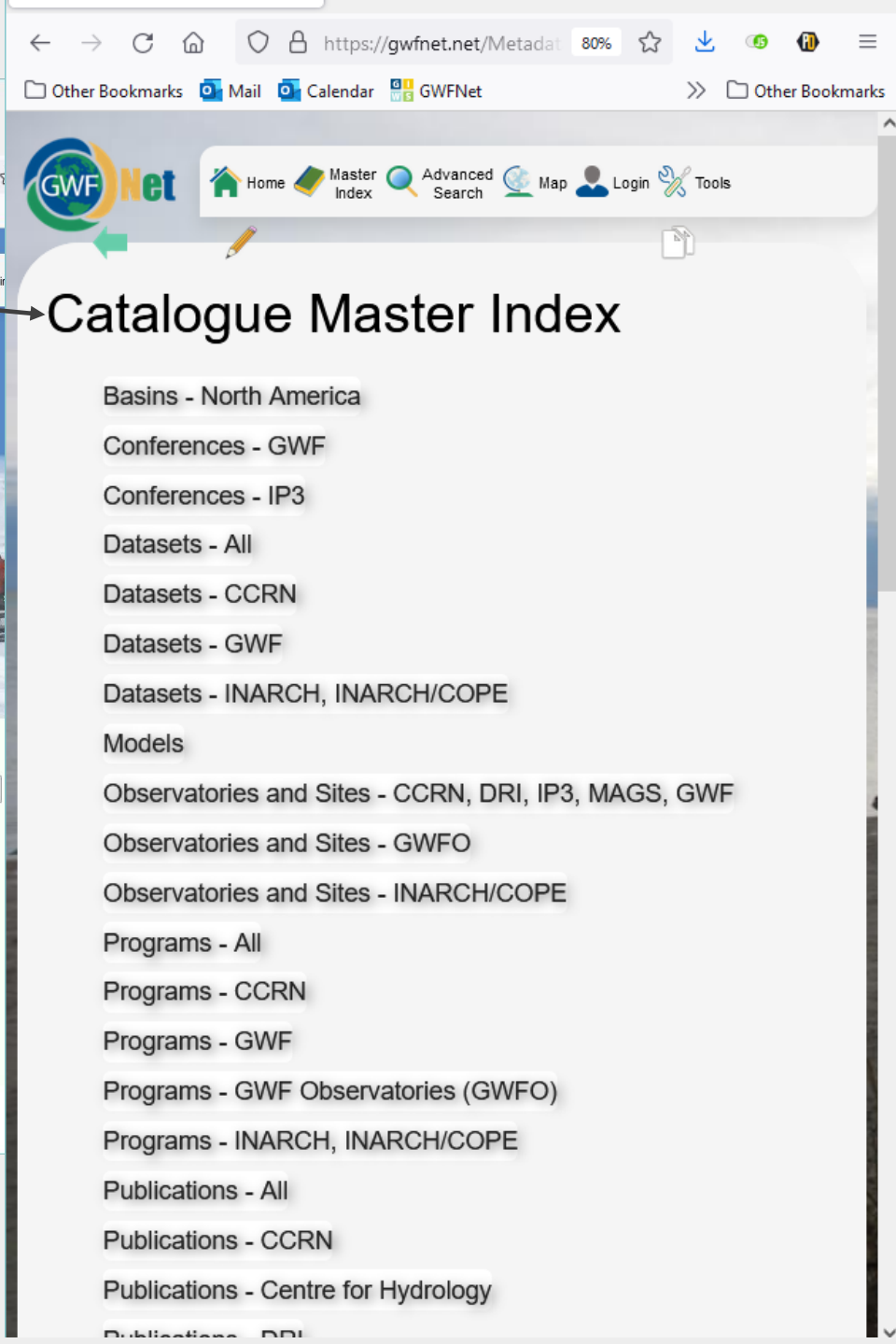
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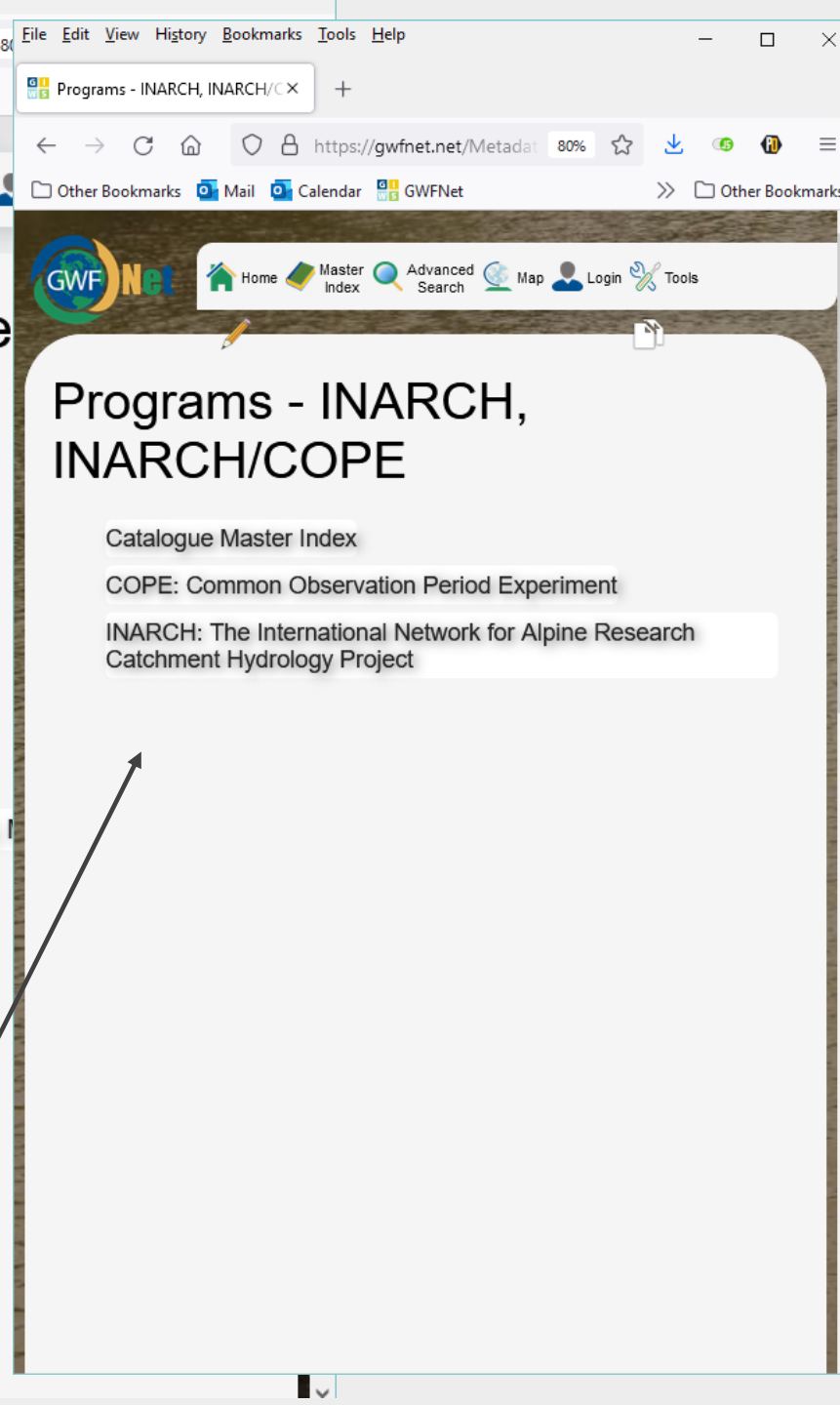
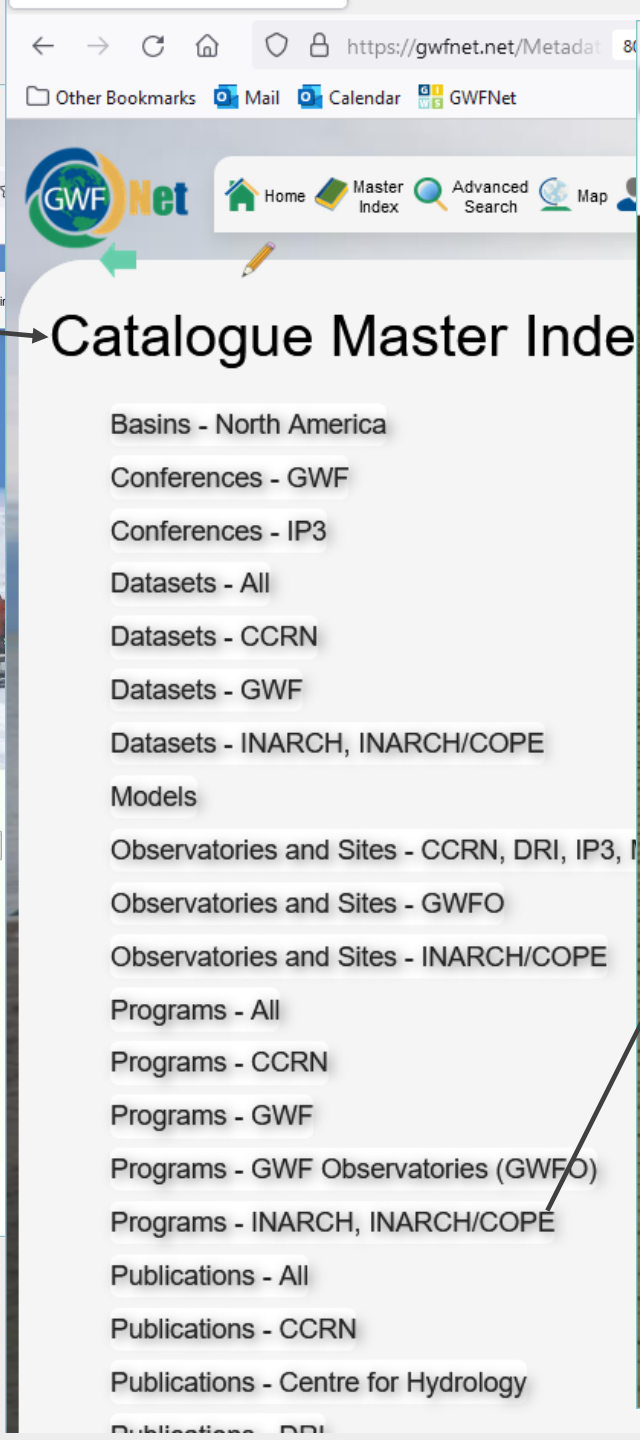
Advanced Search

GIS

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INARCH: The International Net

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INARCH: The International Network for Alpine Research Catchment Hydrology Project

Related Information

COPE: Common Observation Period Experiment

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Legacy Projects

INARCH/COPE Basin Information Form

Project Information

Section 1: Project Information





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- [Dadongshu Yakou \(Binggou River\), China \(COPE\)](#)
- [Dischma/Davos, Switzerland \(COPE\)](#)
- [Djankuat Research Basin, Russia](#)
- [Djankuat Research Basin, Russia \(COPE\) \(Old Record\)](#)
- [Estero Las Bayas, Chile \(COPE\)](#)
- [Fortress Mountain, Canada \(COPE\)](#)
- [Guadalfeo Basin, Spain \(COPE\)](#)
- [Hengduan Mountain, China \(COPE\)](#)
- [Hidden Valley Catchment, Nepal \(COPE\)](#)
- [Izas Experimental Catchment, Spain \(COPE\)](#)
- [Kyzylsu Catchment, Tajikistan \(COPE\)](#)
- [Langtang Catchment, Nepal \(COPE\)](#)

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Observatories and Sites - INARC

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COPE: Common Observation Period Experiment

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Djankuat Research Basin, Russia X

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Djankuat Research Basin, Russia (COPE) (Old Record)

Related Information

Observatories and Sites - INARCH/COPE

[Djankuat Research Site #1](#)

Catchment Information Map of Catchment and Site Location(s)

Section 1: Catchment Information

Catchment Name
Djankuat

Country
Russia

Mountain Range
North Caucasus

Primary Contacts

Name	Role	Institution, Information
Ekaterina Rets		

Catchment Location

Coordinate Format	Latitude	Longitude
Degrees Minutes Seconds	43° 12' 28.8" N	42° 44' 6" E
Decimal Degrees	43.208	42.735

Elevation

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[Fortress Mountain, Canada \(COPE\)](#)

[Guadafeo Basin, Spain \(COPE\)](#)

[Hengduan Mountain, China \(COPE\)](#)

[Hidden Valley Catchment, Nepal \(COPE\)](#)

[Izas Experimental Catchment, Spain \(COPE\)](#)

[Kyzylsu Catchment, Tajikistan \(COPE\)](#)

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Djankuat Research Basin, Russia X

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Djankuat Research Basin, Russia (COPE) (Old Record)

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[Djankuat Research Site #1](#)

Catchment Information Map of Catchment and Site Location

Section 1: Catchment Information

Catchment Name
Djankuat

Country
Russia

Mountain Range
North Caucasus

Primary Contacts

Name	Role
Ekaterina Rets	

Catchment Location

Coordinate Format	Latitude
Degrees Minutes Seconds	43° 12' 28.8" N
Decimal Degrees	43.208

Elevation

Djankuat Research Site #1 X

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Djankuat Research Site #1

Related Information

[Djankuat Research Basin, Russia \(COPE\) \(Old Record\)](#)

Site Overview Map Forcing Data Hydrological Instrumentation

Hydrometric/Cryospheric Measurements Hydrological Modelling Data

Section 1: Site Overview

Research Site Name
Djankuat Research Site #1

Research Site ID #

Catchment Name
Djankuat Research Basin

Primary Contacts

Name	Role	Institution, Information
See catchment		

Site Location

Coordinate Format	Latitude	Longitude
Degrees Minutes Seconds	See catchment	
Decimal Degrees		

Elevation

Minimum	Maximum
See catchment	

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Observatories and Sites - INARCH

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COPE Catchment Map

COPE: Common Observation Period Experiment

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Djankuat Research Site #1

Catchment Information

Map of Catchment and Site Location

Section 1: Catchment Information

Catchment Name

Djankuat

Country

Russia

Mountain Range

North Caucasus

Primary Contacts

Name	Role
Ekaterina Rets	

<

Catchment Location

Coordinate Format	Latitude
Degrees Minutes Seconds	43° 12' 28.8" N
Decimal Degrees	43.208

<

Elevation

Djankuat Research Site #1

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Djankuat Research Site #1

Related Information

Djankuat Research Basin, Russia (COPE) (Old Record)

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Forcing Data

Hydrological Instrumentation

Hydrometric/Cryospheric Measurements

Hydrological Modelling Data

Section 3: Forcing Data

Standard Forcing Variables

Forcing Variable	Instrumentation Description	Temporal F
T	Davis/Rika RK330-01	
RH	Davis/Rika RK330-01	
K in	Kipp&Zonnen/ Rika RK200-02	
K out	Kipp&Zonnen/ Rika RK200-02	
L in	Please check: Kipp&Zonnen?	
L out	Please check: Kipp&Zonnen?	
Net Radiometer		
Wind Speed	Davis/Rika RK120-01c	
Wind Direction	Davis/Rika RK120-01c	
Precipitation	Davis/Rika RK400-01	
Pressure	Davis/Rika RK400-01	

<

Additional Forcing Variables

Variable	Instrumentation Description	Temporal F
		Select opti

<

Additional Forcing Variable Information

AWS in several locations

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[Dischma/Davos, Switzerland \(COPE\)](#)
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[Fortress Mountain, Canada \(COPE\)](#)
[Guadafeo Basin, Spain \(COPE\)](#)
[Hengduan Mountain, China \(COPE\)](#)
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Section 1: Catchment Information

Catchment Name
Djankuat

Country
Russia

Mountain Range
North Caucasus

Primary Contacts

Name	Role
Ekaterina Rets	

Catchment Location

Coordinate Format	Latitude
Degrees Minutes Seconds	43° 12' 28.8" N
Decimal Degrees	43.208

Elevation

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Hydrometric/Cryospheric MeasurementsHydrological Modelling Data

Section 4: Hydrological Instrumentation

Standard Hydrological Instrumentation (including sensor name and model)

Hydrological Variable	Instrumentation Description	Temporal F
Water Level	2 gauging stations Keller DCX-18/PAA-36XIW CTD + ARC-1	
Discharge Method	2 gauging stations Salt Dillution	
Water Temperature	2 gauging stations Keller DCX-18/PAA-36XIW CTD	
Isotope Types (e.g., O18, D, T)	Yes: O18, D	sd/d/w
Water Conductivity	Keller PAA-36XIW CTD	sd
Turbidity	Yes	sd
Sediment Load (Gravels)	No	
Water Sampling Hydrogeochemistry (Elements)	No	
Groundwater Level	No	
Soil Moisture	No	

Additional Hydrological Instrumentation

Variable	Instrumentation Description	Temporal F
Isotopes in Precipitation Samples		Select opti
Isotopes in Ice Samples		Select opti
Isotopes in Snow Samples		Select opti

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Map of Catchment and Site Location

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Catchment Name

Djankuat

Country

Russia

Mountain Range

North Caucasus

Primary Contacts

Name	Role
Ekaterina Rets	

Catchment Location

Coordinate Format	Latitude
Degrees Minutes Seconds	43° 12' 28.8" N
Decimal Degrees	43.208

Elevation

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Hydrological Modelling Data

Section 5: Hydrometric/Cryospheric Measurements

Standard Hydrometric/Cryospheric Measurements


Hydrometric/Cryospheric Variable	Measurement Description	Temporal Frequency
Terrestrial Laser Scanner	No	N/A
UAV Sensors	No	N/A
Snow Surveys	Repeated at 250–300 points - snow poles, 3-4 snowpits, 35-40 ablation stakes	N/A
Time-lapse Photographs	No	
SWE Instruments, Pillows	No	
Snow Depth	Repeated at 250–300 points - snow poles, 3-4 snowpits, 35-40 ablation stakes	
Soil Temperature	No	
Surface Temperature	No	
Eddy Covariance	No	
Ice Elevation	Repeated at 35-40 ablation stakes	N/A
Debris Covered Ice Elevation	2700-3500	N/A
Glacier Mass Balance	Glaciological in situ measurements (snow poles, snow pits, ablation stakes)	N/A
Glacier Ice Thickness	radio-echo sounding and modelling of ice thickness performed in 2015	N/A

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Djankuat Research Basin, Russia

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Djankuat

Country

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Mountain Range

North Caucasus

Primary Contacts

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Catchment Location


Coordinate Format	Latitude
Degrees Minutes Seconds	43° 12' 28.8" N
Decimal Degrees	43.208

Elevation

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Hydrological Modelling Data

Section 6: Hydrological Modelling Data

Vegetation Map

TBD?

Soil Map

TBD?

Soil Depth Information

TBD?

Digital Elevation Map (and Spatial Resolution)

No

Additional Modelling Information

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COPE: Common Observation Period Experiment

Related Information

- INARCH: The International Network for Alpine Research Catchment Hydrology Project
- Observatories and Sites - INARCH/COPE
- Programs - All
- Programs - INARCH, INARCH/COPE
- Models - INARCH/COPE
- INARCH/COPE Basin Information Form

Project Information

Section 1: Project Information



INARCH/COPE Basin Information Form

Related Information

- COPE: Common Observation Period Experiment
- INARCH: The International Network for Alpine Research Catchment Hydrology Project

Info

Section 1: Info

Basin Information Form

Please use the blank Basin Information Form and complete as much information for your basin as you can. An example form completed for Wolf Creek has also been provided in the links below. Thank you for your participation in INARCH/COPE. The most up-to-date version of the form will always be available from this page www.gwfn.net/basin_information_form

Please return your completed Basin Information Form to the INARCH/COPE Secretariate (for primary review by the Science Manager, Chris DeBeer) and the Data Management Team lead, Stephen O'Hearn:
Chirs.DeBeer@usask.ca
Stephen.OHearn@usask.ca

Blank Form
www.gwfn.net/filesserver/T-2023-10-05-d3d1FE4ThIIUqjbVq00Gqsyg/INARCH_COPE_Basin_Information_Form_Rev202306.docx

Exemplar (Wolf Creek)
www.gwfn.net/filesserver/T-2023-10-05-d3d1FE4ThIIUqjbVq00Gqsyg/INARCH_COPE_Basin_Information_Form_Exemplar-Wolf_Creek-2023-05.docx

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Project Information

Section 1: Project Information

INARCH/COPE Basin Information Form

Related Information

COPE: Common Observation Period Experiment

INARCH: The International Network Catchment Hydrology Project

Info

Section 1: Info

Basin Information Form

Please use the blank Basin Information Form to complete your basin as you can.

An example form completed for Wolf Creek is available here: www.gwfnet.net/filesserver/T-2023-10-05-d33/INARCH_COPE_Basin_Information_Form_WolfCreek.pdf

The most up-to-date version of the form will be available here: www.gwfnet.net/basin_information_form

Please return your completed Basin Information Form to the INARCH Secretariate (for primary review by the Scientific Management Team lead, Stephen O'Hearn) at Chirs.DeBeer@usask.ca or Stephen.OHearn@usask.ca

Blank Form: www.gwfnet.net/filesserver/T-2023-10-05-d33/INARCH_COPE_Basin_Information_Form_Blank.pdf

Exemplar (Wolf Creek): www.gwfnet.net/filesserver/T-2023-10-05-d33/INARCH_COPE_Basin_Information_Form_WolfCreek.pdf

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INARCH Basin/Site Information Form

Basin/Site Name

Country/ Province/State

Website (If Available)

Operational Management

Basin/Site Location (Centroid Coordinates)

Coordinate Format	Latitude	Longitude
Decimal Degrees		

Oversight/Contacts

Name	Role	Contact Information

Purpose/Scientific Focus

Basin/Site Characteristics

Location (Physiographic Region)	
Area (km ²)	
Elevation (m: Mean, Maximum, Minimum)	
Description (Physical-Ecological-Climatic Characteristics)	
Drainage/River System	
Site History or Historical Context	
Years of Data	

Other Info

Glacierized Area (% and year(s) measured)	
Main Land Cover(s)	
Lithology/Soils	
Mean Monthly and Annual Temperature (°C)	
Mean Total Monthly and Annual Precipitation (mm)	
Snow Characteristics	
Additional Noteworthy Characteristics of Basin/Site	

Data and Observations

Available Geospatial Data	Notes (e.g., Source, Resolution, Error/Uncertainty, Date, etc.)
Elevation	
Landcover and Soils	
Stream/River Network	
Basin Delineation/Shapefile	
Other Geospatial Data (add rows as necessary)	

Observation Stations (Specific Instrument/Sensor Details to be Filled Below)

Type	Station Name	Latitude	Longitude	Elevation	Notes/Details
Other Stations (add rows as necessary)					

Data Availability and Access (Please provide links/DOIs to published or available data and descriptions; Add rows as necessary)

Meteorological Variables and Sensor Details

Variable	Station	Sensor(s)	Height/Depth (m)	Record Period and Frequency	Notes/Details
Air temperature and Relative Humidity					
Solar Radiation					
Longwave Radiation					
Net Radiation					

Snow Water Equivalent					
Snow Depth					
Soil Moisture					
Soil Temperature					
Stream Level/Discharge					
Groundwater Level					
Other Variables (add rows as necessary)					
Water Quality Variables					
Water					

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INARCH/COPE Basin Information Form

Project Information

Section 1: Project Information



INARCH/COPE Basin Information Form

Related Information

COPE: Common Observation Period Experiment

INARCH: The International Network Catchment Hydrology Project

Section 1: Info

Basin Information Form

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Blank Form

www.gwfnet.net/filesserver/T-2023-10-05-d3/INARCH_COPE_Basin_Information_Form_Blanke.pdf

Exemplar (Wolf Creek)

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Entered_INARCH COPE Djankuat Basin Information Form June 2023 copy.docx - Word

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INARCH Basin/Site Information Form

Basin/Site Name

Djankuat Research Basin

Country/ Province/State

Russia

Website (If Available)

Operational Management

Lomonosov Moscow State University
Water problems Institute Russian Academy of Sciences

Basin/Site Location (Centroid Coordinates)

Coordinate Format

Latitude

Longitude

Decimal Degrees

41.208 N

42.735 E

Oversight/Contacts

Name

Ekaterina Rets

Role

Curator of the Research Catchment in the INARCH Network, Hydrological and meteorological monitoring

Contact Information

Email: ekaterina.p.rets@gmail.com

Viktor Popovnin

Head of the Station, Glaciological monitoring

Email: begegnotina@hotmail.com

Purpose/Scientific Focus

The Djankuat glacier was chosen as representative of the central North Caucasus during the International Hydrological Decade (IHD) - research program on water problems launched by UNESCO in 1965 - and is one of 30 'reference' glaciers in the world which has annual mass balance series longer than 50 years. The mass-balance measurements have been carried out on Djankuat glacier since 1967 till now regularly (www.wgms.ch) based on standard methods. Detailed hydrological and meteorological measurements were included in the monitoring program of the station during the IHD and came to an end in the late 1970s. The comprehensive hydrometeorological observation was resumed in the Djankuat research basin since 2007. Hydrometeorological measurements were done during the ablation season every year since 2007, all-year round hydrological gauge since 2021, and the observational program gradually expanded during 2007-2023 and now goes beyond the standard network hydrological and meteorological observations.

Basin/Site Characteristics

Location (Physiographic Region)

Alpine zone of the North Caucasus

Area (km²)

12.4 km²

Elevation (m; Mean, Maximum, Minimum)

between 2600 and 4000 m

Basin Delineation/Shapefile

Available on request

Observation Stations (Specific Instrument/Sensor Details to be Filled Below)

Type

Station Name

Latitude

Longitude

Elevation

Notes/Details

Meteorological

Djankuat Base Camp AWS

43.208

42.736

2640

Meteorological

Djankuat Glacier AWS 1

43.198

42.757

3000

IV zone of the Djankuat glacier on the ice surface

Meteorological

Djankuat Glacier AWS 2

43.200

42.759

3050

IV zone of the Djankuat glacier on the debris covered ice

Meteorological

Djankuat Glacier AWS 3

43.193

42.759

3200

Hydrological

Djankuat River Base

Description (Physical-Ecological-Climatic Characteristics)

The Djankuat research basin is situated on the northern slope of the central part of the Main Caucasian Ridge. The climate is moderate continental to high-alpine

Drainage/River System

The Djankuat River is a source of the Adul-Su River - a tributary of the Baksan River which drains into the Caspian Sea via the Terek River.

Site History or Historical Context

The Djankuat glacier was chosen as representative of the central North Caucasus during the International Hydrological Decade (IHD) - research program on water problems launched by UNESCO in 1965 - and is one of 30 'reference' glaciers in the world which has annual mass balance series longer than 50 years.

Years of Data

(1970s) - 2007 - ongoing

Other Info

Glaciated Area (% and year(s) measured)

In the 2017 glaciers occupied 27% of the territory of the basin. The main glacier with the same name - Djankuat glacier - is the source of the Djankuat River. It is a valley glacier, with the lowest point of the tongue at approximately 2750 m, the elevation of the bergschrund is at 3600 m. The mean elevation of the glacier is 3210 m, the area is 2.42 km², and its length is 3.0 km. The maximum measured thickness of the glacier is 105 m, and the average thickness is 31 m. The Djankuat River basin also contains three small glaciers with areas less than 0.5 km²: Koyagan, Via-Tau, and Visyachiy.

Main Land Cover(s)

Alpine highlands with steep slopes and a wide development of coarse-grained deposits, with numerous outcrops of exposed rocks, with alpine lawns in the lower part of the basin and with glacial-nival landscapes in its middle and upper parts

Lithology/Soils

crystalline schists and gneisses; gravelly shallow humus soils

Mean Monthly and Annual Temperature (°C)

J F M A M J J A S O N D A
-7.3; -6.4; -3.2; 2.1; 6.8; 10.0; 12.5; 12.2; 8.5; 3.9; -1.3; -5.2; 2.7
(According to the closest all-year round meteorological station in Terskol)

Mean Total Monthly and Annual Precipitation (mm)

J F M A M J J A S O N D A
58; 45; 67; 86; 92; 93; 102; 94; 100; 85; 64; 59; 942
(According to the closest all-year round meteorological station in Terskol)

Snow Characteristics

Stable snow cover is generally observed on the whole basin area from October-November to May. In the accumulation zone of glaciers snow persists through the year. Mean measured snowdepth on the Djankuat Glacier is 3600 mm, Maximum is 11550 mm.

Additional Noteworthy Characteristics of Basin/Site

Data and Observations

Available Geospatial Data

Notes (e.g., Source, Resolution, Error/Uncertainty, Date, etc.)

Elevation

Available on request

Landcover and Soils

Aleynikova, A. M. Struktura i dinamika prilednikovykh landsshaftov Prielbrus'ya / A. M. Aleynikova, M. N. Petrushina // Lod i sneg. - 2011. - № 2(114). - S. 127-134. - EDN PJEMMH. (in Russian)

Stream/River Network

Available on request

Djankuat Base Camp AWS

DAVIS AWS

2640

2007 - ongoing, 15 min

Solar Radiation

Djankuat Glacier AWS 1

Campbell AWS -KEEP & ZONNEN radiometers

3000

2007-2021, 15 min

Djankuat Glacier AWS 2

Campbell AWS -KEEP & ZONNEN radiometers

3050

2007-2009, 15 min

Longwave Radiation

Djankuat Glacier AWS 1

Campbell AWS -KEEP & ZONNEN radiometers

3000

2007-2021, 15 min

Djankuat Glacier AWS 2

Campbell AWS -KEEP & ZONNEN radiometers

3050

2007-2009, 15 min

Wind Speed/Direction

Djankuat Glacier AWS 1

Campbell AWS - wind sensor

3000

2007-2021, 15 min

Djankuat Glacier AWS 2

Campbell AWS - wind sensor

3050

2007-2009, 15 min

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[Fortress Mountain, Canada \(COPE\)](#)

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[Izas Experimental Catchment, Spain \(COPE\)](#)

[Kyzylsu Catchment, Tajikistan \(COPE\)](#)

[Langtang Catchment, Nepal \(COPE\)](#)

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Djankuat Research Basin, Russia

Related Information

Observatories and Sites - INARCH/COPE

[Djankuat Research Basin, Datasets and Publications](#)

Site Overview Data and Observations Map of Research Site

Section 1: Site Overview

Identity

Basin / Site Name	Djankuat Research Basin
Country, Province/State	Russia
Website (if available)	
Operational Management	Lomonosov Moscow State University Water problems institute Russian Academy of Sciences

Oversight/Contacts

Name	Role	Contact Information
Ekaterina Rets	Curator of the Research Catchment in Email: ekaterina.p.rets@gmail.com the INARCH Network, Hydrological and meteorological monitoring	
Viktor Popovnin	Head of the Station, Glaciological monitoring	Email: begemotina@hotmail.com

Basin / Site Location (Centroid Coordinates)

Coordinate Format	Latitude	Longitude
Degrees Minutes Seconds		
Decimal Degrees	43.208 N	42.735 E


Purpose / Scientific Focus

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Djankuat Research Basin, Russia

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Decimal Degrees43.208°N42.733°E

Purpose / Scientific Focus

The Djankuat glacier was chosen as representative of the central North Caucasus during the International Hydrological Decade (IHD) - research program on water problems launched by UNESCO in 1965 - and is one of 30 'reference' glaciers in the world which has annual mass balance series longer than 50 years. The mass-balance measurements have been carried out on Djankuat glacier since 1967 till now regularly (www.wgms.ch) based on standard methods. Detailed hydrological and meteorological measurements were included in the monitoring program of the station during the IHD and came to an end in the late 1970s. The comprehensive hydrometeorological observation was resumed in the Djankuat research basin since 2007. Hydrometeorological measurements were done during the ablation season every year since 2007, all-year round hydrological gauge since 2021, and the observational program gradually expanded during 2007–2023 and now goes beyond the standard network hydrological and meteorological observations.

Basin / Site Characteristics

Location (Physiographic Region)	Location (Physiographic Region)
Area (km2)	Alpine zone of the North Caucasus
Elevation (m; Mean, Maximum, Minimum)	12.4 km2
Description (Physical–Ecological–Climatic Characteristics)	between 2600 and 4000 m
Drainage / River System	The Djankuat research basin is situated on the northern slope of the central part of the Main Caucasian Ridge. The climate is moderate continental to high-alpine
Site History or Historical Context	The Djankuat River is a source of the Adul-Su River – a tributary of the Baksan River which drains into the Caspian Sea via the Terek River.
Years of Data	The Djankuat glacier was chosen as representative of the central North Caucasus during the International Hydrological Decade (IHD) - research program on water problems launched by UNESCO in 1965 - and is one of 30 'reference' glaciers in the world which has annual mass balance series longer than 50 years.
	(1970s) – 2007 – ongoing

Other Information


Glacierized Area (% and year(s) measured)	In the 2017 glaciers occupied 27% of the territory of the basin. The main glacier with the same name – Djankuat glacier – is the source of the Djankuat River. It is a valley glacier, with the lowest point of the tongue at
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Djankuat Research Basin, Russia

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Other Information

Glacierized Area (% and year(s) measured)	In the 2017 glaciers occupied 27% of the territory of the basin. The main glacier with the same name – Djankuat glacier – is the source of the Djankuat River. It is a valley glacier, with the lowest point of the tongue at approximately 2750 m, the elevation of the bergschrund is at 3600 m. The mean elevation of the glacier is 3210 m, the area is 2.42 km ² , and its length is 3.0 km. The maximum measured thickness of the glacier is 105 m, and the average thickness is 31 m. The Djankuat River basin also contains three small glaciers with areas less than 0.5 km ² : Koyavgan, Via-Tau, and Visyachiy.
Main Land Cover(s)	Alpine highlands with steep slopes and a wide development of coarse-grained deposits, with numerous outcrops of exposed rocks, with alpine lawns in the lower part of the basin and with glacial-nival landscapes in its middle and upper parts
Lithology / Soils	crystalline schists and gneisses; gravelly shallow humus soils J F M A M J J A S O N D A
Mean Monthly and Annual Temperature (°C)	-7.3; -6.4; -3.2; 2.1; 6.8; 10.0; 12.5; 12.2; 8.5; 3.9; -1.3; -5.2; 2.7 (According to the closest all-year round meteorological station in Terskol) J F M A M J J A S O N D A
Mean Total Monthly and Annual Precipitation (mm)	58; 45; 67; 86; 92; 93; 102; 94; 100; 85; 64; 59; 942 (According to the closest all-year round meteorological station in Terskol)
Snow Characteristics	Stable snow cover is generally observed on the whole basin area from October-November to May. In the accumulation zone of glaciers snow persists through the year. Mean measured snowdepth on the Djankuat Glacier is 3600 mm, Maximum is 11550 mm
Additional Noteworthy Characteristics	

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Djankuat Research Basin, Russia

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Related Information

Observatories and Sites - INARCH/COPE

Djankuat Research Basin, Datasets and Publications

[Site Overview](#)[Data and Observations](#)[Map of Research Site](#)

Section 1: Site Overview

Identity

Basin / Site Name	Djankuat Research Basin
Country; Province/State	Russia
Website (if available)	
Operational Management	Lomonosov Moscow State University Water problems institute Russian Academy of Sciences

Oversight/Contacts

Name	Role	Contact Information
Ekaterina Rets	Curator of the Research Catchment in Email: ekaterina.p.rets@gmail.com the INARCH Network, Hydrological and meteorological monitoring	
Viktor Popovnin	Head of the Station, Glaciological monitoring	Email: begemotina@hotmail.com

Basin / Site Location (Centroid Coordinates)

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Purpose / Scientific Focus

The Djankuat glacier was chosen as representative of the central North Caucasus during the International Hydrological Decade (IHD) - research program on water problems launched by UNESCO in 1965 - and is one of 30 'reference' glaciers in the world which has annual mass balance series longer than 50 years. The mass-balance measurements have been carried out on Djankuat glacier since 1967 till now regularly ([www.wgms.ch](#)) based on standard methods. Detailed hydrological and meteorological measurements were included in the monitoring program of the station during the IHD and came to an end in the late 1970s. The comprehensive hydrometeorological observation was resumed in the Djankuat research basin since 2007. Hydrometeorological measurements were done during the ablation season every year since 2007, all-year round hydrological gauge since 2021, and the observational program gradually expanded during 2007–2023 and now goes beyond the standard network hydrological and meteorological observations.

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Related Information

Observatories and Sites - INARCH/COPE

Djankuat Research Basin, Datasets and Publications

Site Overview

Data and Observations

Map of Research Site

Section 2: Data and Observations

Available Geospatial Data

Digital Elevation Model	Available on request
Landcover and Soils	Aleynikova, A. M. Struktura i dinamika prilednikovykh landshaftov Priel'brus'ya / A. M. Aleynikova, M. N. Petrushina // Lod i sneg. – 2011. – № 2(114). – S. 127-134. – EDN PJEMMH. (In Russian)
Stream/River Network	Available on request
Basin Delineation / Shapefile	Available on request

Observation Stations

Type	Station Name	Latitude
Meteorological	Djankuat Base Camp AWS	43.208
Meteorological	Djankuat Glacier AWS 1	43.198
Meteorological	Djankuat Glacier AWS 2	43.200
Meteorological	Djankuat Glacier AWS 3	43.193
Hydrological	Djankuat River Base Camp Gauging Station	43.209
Hydrological	Djankuat River Rock Gauging Station	43.213

Data Availability and Access

Data and Datasets (Links / DOIs to published or available data and descriptions)

Rets, E. P., Popovnin, V. V., Toropov, P. A., Smirnov, A. M., Tokarev, I. V., Chizhova, J. N., Budantseva N. A. et al. 2019 Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007–2017. Earth System Science Data 11, 3, 1463-1481.


Rets, EP, Popovnin, VV, Toropov, PA et al. (2022): Hydrological, meteorological observations and isotope sampling results during 2010-2020 at Djankuat

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2007–2017. Earth System Science Data 11, 3, 1463-1481.
Rets, EP; Popovnin, VV; Toropov, PA et al. (2022): Hydrological, meteorological observations and isotopes sampling results during 2019-2020 at Djankuat Glacier Station in the North Caucasus, Russia. https://doi.org/10.1594/PANGAEA.940839

Meteorological Variables and Sensor Details

Variable	Station Name	Sensor(s)
Air temperature and Relative Humidity	Djankuat Glacier AWS 1	Campbell AWS - Vaisala MT300 sensor
	Djankuat Glacier AWS 2	Campbell AWS - Vaisala MT300 sensor
	Djankuat Glacier AWS 3	DAVIS AWS
Solar Radiation	Djankuat Base Camp AWS	DAVIS AWS
	Djankuat Glacier AWS 1	Campbell AWS -KEEP & ZONNEN radiometers
Longwave Radiation	Djankuat Glacier AWS 2	Campbell AWS -KEEP & ZONNEN radiometers
	Djankuat Glacier AWS 1	Campbell AWS - wind sensor
Wind Speed/Direction	Djankuat Glacier AWS 2	Campbell AWS -KEEP & ZONNEN radiometers
	Djankuat Glacier AWS 3	DAVIS AWS
Precipitation	Djankuat Base Camp AWS	DAVIS AWS
	Djankuat Glacier AWS 1	Campbell AWS - Vaisala pressure sensor
Atmospheric Pressure	Djankuat Glacier AWS 2	Campbell AWS - Vaisala pressure sensor
	Djankuat Base Camp AWS	DAVIS AWS
Air temperature, Relative humidity, Mean wind speed, Maximum wind speed, Wind direction, at 0.25, 0.5, 1 and 2 m	Djankuat Glacier AWS 1	DAVIS AWS
Three components of wind speed, T - acoustic temperature	Djankuat Glacier AWS 1	Sonic anemometer GILL

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Additional Notes and Details on Meteorological Observations


Hydrological Variables and Sensor Details

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Hydrological Variables and Sensor Details

Variable	Station Name	Sensor(s)
Snow Depth	Djankuat Glacier	Probe poles
Snow Water Equivalent	Djankuat Glacier Snowpits	Snow sampling cylinder
Glacier/Snow ablation	Djankuat Glacier	Ablation stakes
Stream Level/Discharge	Djankuat Glacier AWS 1	Campbell AWS -Sonic Ranger sensor
	Djankuat Glacier AWS 2	Campbell AWS -Sonic Ranger sensor
	Djankuat River Base Camp Gauging Station	Keller DCX-18 VG
	Djankuat River Rock Gauging Station	Keller PAA-36XiW CTD with ARC-1

Additional Notes and Details on Hydrological Observations

Water Quality Variables and Sensor Details

Variable	Station Name	Sensor(s)
Water Temperature	Djankuat River Base Camp Gauging Station	WTW 3310
	Djankuat River Rock Gauging Station	Keller PAA-36XiW CTD with ARC-1
Water Conductivity	Djankuat River Base Camp Gauging Station	WTW 3310
	Djankuat River Rock Gauging Station	Keller PAA-36XiW CTD with ARC-1
Isotopes (18O, D)	Djankuat River Base Camp Gauging Station	2013: mass spectrometer, 2014-2016: laser-based spectrometer; 2017 - Cavity Ring-Down Spectroscopy
Turbidity	Djankuat River Base Camp Gauging Station	portable turbidity meter HACH 2100P
	Djankuat River Rock Gauging Station	portable turbidity meter HACH 2100P

Additional Notes and Details on Water Quality Observations

Other Hydrological and Cryospheric Measurements and Observations

Measurement	Instrumentation Description	Spatial / Temporal Resolution and Coverage
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Other Hydrological and Cryospheric Measurements and Observations

Measurement	Instrumentation Description	Spatial / Temporal Resolution and Coverage
Glacier Ice Thickness	radio-echo sounding and modelling	2012-2013

Additional Notes and Details on Other Measurements and Observations

Relevant Modelling Activity (Model Applications, Purpose, Advancements, etc.)

Rets, E., Fomichev, S. and Belozarov, E., 2021, April. Testing different machine learning techniques for runoff routing in a highly glacierized Djankuat river basin (the North Caucasus, Russia). In EGU General Assembly Conference Abstracts (pp. EGU21-4567).

Belozarov, E., Rets, E., Petrakov, D. and Popovnin, V., 2020. Modelling glaciers' melting in Central Caucasus (the Djankuat and Bashkara Glacier case study). In E3S Web of Conferences (Vol. 163, p. 01002). EDP Sciences.

Verhaegen, Y., Huybrechts, P., Rybak, O. and Popovnin, V.V., 2020. Modelling the evolution of Djankuat Glacier, North Caucasus, from 1752 until 2100 CE. The Cryosphere, 14(11), pp.4039-4061.

Additional Information (Key Papers, Articles/Media, Photographs, etc.)

Rets, E.P., Popovnin, V.V., Toropov, P.A., Smirnov, A.M., Tokarev, I.V., Chizhova, J.N., Budantseva, N.A., Vasil'chuk, Y.K., Kireeva, M.B., Ekaykin, A.A. and Veres, A.N., 2019. Djankuat glacier station in the North Caucasus, Russia: A database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007–2017. Earth System Science Data, 11(3), pp.1463-1481.

Popovnin, V.V., Rejepkin, A.A. and Tielidze, L.G., 2015. Superficial moraine expansion on the Djankuat Glacier snout over the direct glaciological monitoring period. Earth Cryosphere, 19(1), pp.79-87.

Verhaegen, Y., Huybrechts, P., Rybak, O. and Popovnin, V.V., 2020. Modelling the evolution of Djankuat Glacier, North Caucasus, from 1752 until 2100 CE. The Cryosphere, 14(11), pp.4039-4061.

Tsyplenkov, A., Vanmaercke, M., Collins, A.L., Kharchenko, S. and Golosov, V., 2021. Elucidating suspended sediment dynamics in a glacierized catchment after an exceptional erosion event: The Djankuat catchment, Caucasus Mountains, Russia. Catena, 203, p.105285.

Verhaegen, Y., Rybak, O., Popovnin, V. and Huybrechts, P., 2023. Quantifying supraglacial debris-related melt-altering effects on the Djankuat Glacier, Russian Federation, Part 1: comparison of surface energy and mass fluxes over clean and debris-covered ice.

Popovnin V.V., Pylayeva T.V. Avalanche feeding of the Djankuat Glacier. Ice and Snow. 2015;55(2):21-32. <https://doi.org/10.15356/2076-6734-2015-2-21-32>

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Caucasus Mountains, Russia. Catena, 203, p.105285.

Verhaegen, Y., Rybak, O., Popovnin, V. and Huybrechts, P., 2023. Quantifying supraglacial debris-related melt-altering effects on the Djankuat Glacier, Russian Federation, Part 1: comparison of surface energy and mass fluxes over clean and debris-covered ice.

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Related Information

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Site Overview

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Map of Research Site

Section 2: Data and Observations

Available Geospatial Data

Digital Elevation Model	Available on request
Landcover and Soils	Aleynikova, A. M. Struktura i dinamika prilednikovykh landshaftov Priel'brus'ya / A. M. Aleynikova, M. N. Petrushina // Lod i sneg. – 2011. – № 2(114). – S. 127-134. – EDN PJEMMH. (In Russian)
Stream/River Network	Available on request
Basin Delineation / Shapefile	Available on request

Observation Stations

Type	Station Name	Latitude
Meteorological	Djankuat Base Camp AWS	43.208
Meteorological	Djankuat Glacier AWS 1	43.198
Meteorological	Djankuat Glacier AWS 2	43.200
Meteorological	Djankuat Glacier AWS 3	43.193
Hydrological	Djankuat River Base Camp Gauging Station	43.209
Hydrological	Djankuat River Rock Gauging Station	43.213

Data Availability and Access

Data and Datasets (Links / DOIs to published or available data and descriptions)

Rets, E. P., Popovnin, V. V., Toropov, P. A., Smirnov, A. M., Tokarev, I. V., Chizhova, J. N., Budantseva N. A. et al. 2019 Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007–2017. Earth System Science Data 11, 3, 1463-1481.

Rets, EP; Popovnin, VV; Toropov, PA et al. (2022): Hydrological, meteorological observations and isotope sampling results during 2010-2020 at Djankuat

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Related Information

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Section 2: Data and Observations

Available Geospatial Data

Digital Elevation Model	Available on request
Landcover and Soils	Aleynikova, A. M. Struktura i prirodnikiykh landshaft Priel'brus'ya / A. M. Aleynikova // Lod i sneg 2(114). – S. 127-134. – PJEMMH. (in Russian)
Stream/River Network	Available on request
Basin Delineation / Shapefile	Available on request

Observation Stations

Type	Station Name
Meteorological	Djankuat Base Camp AWS 1
Meteorological	Djankuat Glacier AWS 1
Meteorological	Djankuat Glacier AWS 2
Meteorological	Djankuat Glacier AWS 3
Hydrological	Djankuat River Base Camp Station
Hydrological	Djankuat River Rock Glacier

Data Availability and Access

Data and Datasets (Links / DOIs to published or available data)

Rets, E. P., Popovnin, V. V., Toropov, P. A., Smirnov, A. M., Tokarev, I. G., Chizhova, J. N., Budantseva, N. A. et al. 2019 Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, meteorological observations and stable isotope sampling results during 2007–2017. Earth System Science Data 11, 3, 1463–1481. <https://doi.org/10.5194/essd-11-1463-2019>

Rets, EP, Popovnin, VV, Toropov, PA et al. (2022): Hydrological observations and isotope sampling results during 2010–2020.

Djankuat Research Basin, Dataset

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Dataset

Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

2019

Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yurij K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. Earth Syst. Sci. Data, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

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- [Djankuat Research Basin, Russia \(COPE\) \(Old Record\)](#)
- [Estero Las Bayas, Chile \(COPE\)](#)
- [Fortress Mountain, Canada \(COPE\)](#)
- [Guadafeo Basin, Spain \(COPE\)](#)
- [Hengduan Mountain, China \(COPE\)](#)
- [Hidden Valley Catchment, Nepal \(COPE\)](#)
- [Izas Experimental Catchment, Spain \(COPE\)](#)
- [Kyzylsu Catchment, Tajikistan \(COPE\)](#)
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Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

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Datasets - INARCH, INARCH/COPE

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ESSD - INARCH Special Issue 871 - Hydrometeorological data from mountain and alpine research catchments

2019

Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yurij K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> [Journal Article](#)

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Dataset Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

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Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yurij K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> [Journal Article](#)

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Glaciological, hydrological, met X

the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

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Name of Research Project

Related Project	Part
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Program Affiliations

INARCH: International Network of Alpine Research Catchment Hydrology

Related Research Project(s)

Related Project	Part
INARCH1: International Network of Alpine Research Catchment Hydrology (Phase 1)	

Dataset Title

Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

Additional Information

Supplement to: Rets, Ekaterina P; Popovnin, Viktor V; Toropov, Pavel A; Smirnov, Andrew M; Tokarev, Igor V; Chizhova, Julia N; Budantseva, Nadine A; Vasil'chuk, Yuriy K; Kireeva, Maria B; Ekaykin, Alexey A; Veres, Arina N; Aleynikov, Alexander A; Frolova, Natalia L; Tsyplenkov, Anatolii S; Poliukhov, Aleksei A; Chalov, Sergey R; Aleshina, Maria A; Kornilova, Ekaterina D (2019): Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007–2017. *Earth System Science Data*, 11(3), 1463–1481, <https://doi.org/10.5194/essd-11-1463-2019>

Creators and Contributors

Name	Role	Email

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Dataset Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

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Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yuriy K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

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Glaciological, hydrological, met

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the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

Overview Research Site Status and Provenance **Access and Downloads**

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Does the data have access restrictions?

- ☒ No restriction (data is currently open to public)
- ☐ Limited (data is currently under embargo until publication)
- ☐ Limited (data involves intellectual property issues related to local or traditional knowledge)
- ☐ Limited (release of data may cause harm to the environment or to the public)
- ☐ Limited (pre-existing data has been used and is subject to access restrictions)
- ☐ Limited (data involves human subjects)
- ☐ Limited (data is supported by industry partnerships)
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[Downloading and Characteristics of the Dataset](#)

Download Links and Instructions

PANGAEA Link

<https://doi.pangaea.de/10.1594/PANGAEA.894807>

All datasets (in ZIP file)

<https://doi.pangaea.de/10.1594/PANGAEA.894807?format=zip>

Total Size of all Dataset Files (GB)

File formats and online databases

- ☐ Link to online database or web services (e.g., WISKI, ECCC)
- ☐ Archive files (.zip, .rar, .7z, .tar, .tgz, .tar.gz, etc.)
- ☒ CSV files (.csv - comma or tab separated value files)
- ☐ Excel document files (.xlsx, .xls)
- ☐ Image files (e.g., .tiff, .jpeg, .png, .gif, etc.)
- ☐ NetCDF files (.netcdf, .nc)
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Dataset Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

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Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yuriy K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

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[Djankuat Research Basin, Russia \(COPE\) \(Old Record\)](#)

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Rets, Ekaterina P; Popovnin, Viktor V; Toropov, Pavel A; Smirnov, Andrew M; Tokarev, Igor V; Chizhova, Julia N; Budantseva, Nadine A; Vasil'chuk, Yuriy K; Kireeva, Maria B; Ekaykin, Alexey A; Veres, Arina N; Aleynikov, Alexander A; Frolova, Natalia L; Tsyplenkov, Anatolii S; Poliukhov, Alexey; Chalov, Sergey R; Aleshina, Maria A; Kornilova, Ekaterina D (2018): Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia. *PANGAEA*, doi <https://doi.org/10.1594/PANGAEA.894807>,

Supplement to: Rets, Ekaterina P; Popovnin, Viktor V; Toropov, Pavel A; Smirnov, Andrew M; Tokarev, Igor V; Chizhova, Julia N; Budantseva, Nadine A; Vasil'chuk, Yuriy K; Kireeva, Maria B; Ekaykin, Alexey A; Veres, Arina N; Aleynikov, Alexander A; Frolova, Natalia L; Tsyplenkov, Anatolii S; Poliukhov, Aleksei A; Chalov, Sergey R; Aleshina, Maria A; Kornilova, Ekaterina D (2019): Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth System Science Data*, **11(3)**, 1463-1481, doi <https://doi.org/10.5194/essd-11-1463-2019>

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Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yuriy K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463-1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

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Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

https://doi.pangaea.de/10.1594/PANGAEA.895696

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Median Latitude: 43.170865 * Median Longitude: 42.783480 * South-bound Latitude: 42.735700 * West-bound Longitude: 42.736000 * North-bound Latitude: 43.209000 * East-bound Longitude: 43.208988

Date/Time Start: 2001-06-03T00:00:00 * Date/Time End: 2018-09-28T00:00:00

License:

Size:

48 datasets

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- Rets, EP; Popovnin, VV; Toropov, PA et al. (in review):** Meteorological daily averaged measurements of automatic weather station 'base-camp' in the Djankuat research basin from 2007-2017. <https://doi.pangaea.de/10.1594/PANGAEA.895696>
- Rets, EP; Popovnin, VV; Toropov, PA et al. (in review):** Meteorological hourly measurements of automatic weather station 'base-camp' in the Djankuat research basin from 2009-2017. <https://doi.pangaea.de/10.1594/PANGAEA.895697>
- Rets, EP (in review):** Meteorological daily measurements of automatic weather station 'AWS1' in the Djankuat research basin from 2007-2017. <https://doi.pangaea.de/10.1594/PANGAEA.895698>
- Rets, EP (in review):** Meteorological hourly measurements of automatic weather station 'AWS1' in the Djankuat research basin from 2007-2017. <https://doi.pangaea.de/10.1594/PANGAEA.895699>
- Rets, EP (in review):** Elevation above ice surface at station 'AWS1' in the Djankuat research basin from 2007-2017. <https://doi.pangaea.de/10.1594/PANGAEA.899483>
- Rets, EP (in review):** Meteorological daily measurements of automatic weather station 'AWS2' in the Djankuat research basin from 2007-2009. <https://doi.pangaea.de/10.1594/PANGAEA.895700>
- Rets, EP (in review):** Meteorological hourly measurements of automatic weather station 'AWS2' in the Djankuat research basin from 2007-2009. <https://doi.pangaea.de/10.1594/PANGAEA.895701>

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Djankuat Research Basin, Russia

Dataset Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

2019

Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov Andrew M., Tokarev Igor V., Chizhova Julia N., Budantseva Nadine A., Vasil'chuk Yurij K., Kireeva Maria B., Ekaykin Alexey A., Veres Arina N., Aleynikov Alexander A., Frolova Natalia L., Tsyplenkov Anatoly S., Poliukhov Aleksei A., Chalov Sergey R., Aleshina Maria A., and Kornilova Ekaterina D. (2019). Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth Syst. Sci. Data*, 11, 1463–1481 <https://doi.org/10.5194/essd-11-1463-2019> Journal Article

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INARCH: The International Network for Alpine Research Catchment Hydrology Project

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- Programs - All
- Programs - INARCH, INARCH/COPE
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Dataset A long-term hydrometeorological dataset (1993-2014) of a northern mountain basin: Wolf Creek Research Basin, Yukon Territory, Canada

Dataset Cariboo Alpine Mesonet (CAMnet) Database

Dataset Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia

Dataset Hydrometeorological data from Marmot Creek Research Basin, Canadian Rockies

Dataset Hydrometeorological, glaciological and geospatial research data from the Glacier Research Basin in the Canadian Rockies

Dataset Meteorological observations and measurements collected during the Storm and Precipitation Across the continental Divide Experiment (SPADE), April - June

Dataset SNOUF: Snow Under Forest. Snow, forest and meteorological measurements Col de Porte

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INARCH: The International Network for Alpine Research Catchment Hydrology Project

Publications - All

2023

Sicart Jean Emmanuel, Ramseyer Victor, Picard Ghislain, Arnaud Laurent, Coulaud Catherine, Freche Guilhem, Soubeyrand Damien, Lejeune Yves, Dumont Marie, Gouttevin Isabelle, Le Gac Erwan, Berger Frederic, Monnet Jean Matthieu, Borgniet Laurent, Mermin Eric, Rutter Nick, Webster Clare, and Essery Richard (2023). Snow accumulation and ablation measurements in a mid-latitude mountain coniferous forest (Col de Porte, France, 1325 m alt.): The Snow Under Forest field campaigns dataset. *ESSD* 2023-174 <https://doi.org/10.5194/essd-2023-174> Journal Article

2022

Aubry-Wake Caroline, Bertoincini André, Pomeroy John W. (2022). Fire and Ice: The Impact of Wildfire-Affected Albedo and Irradiance on Glacier Melt. *AGU* 10(4) April 2022 e2022EF002685 <https://doi.org/10.1029/2022EF002685> Journal Article

Capelli, A., Koch, F., Henkel, P., Lamm, M., Appel, F., Marty, C., & Schweizer, J. (2022). GNSS signal-based snow water equivalent determination for different snowpack conditions along a steep elevation gradient. *The Cryosphere*, 16, 505-531 <https://doi.org/10.5194/tc-16-505-2022> Journal Article

Deschamps-Berger, C., Cluzet, B., Dumont, M., Lafaysse, M., Berthier, E., Fanise, P., & Gascoin, S. (2022). Improving the spatial distribution of snow cover simulations by assimilation of satellite stereoscopic imagery. *Water Resources Research*, e2021WR030271 <https://doi.org/10.1029/2021WR030271> Journal Article

Kiewiet, L., Trujillo, E., Hedrick, A., Havens, S., Hale, K., Seyfried, M., Kampf, S., & Godsey, S. E. (2022). Effects of spatial and temporal variability in surface water inputs on streamflow generation and cessation in the rain-snow transition zone. *Hydrology and Earth System Sciences*, 26(10), 2779-2796 <https://doi.org/10.5194/hess-26-2779-2022> Journal Article

Koutantou, K., Mazzotti, G., Brunner, P., Webster, C., & Jonas, T. (2022). Exploring snow

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Djankuat Research Basin, Datasets and Publications

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Available Geospatial Data

Digital Elevation Model	Available on request
Landcover and Soils	Aleynikova, A. M. Struktura i dinamika prilednikovykh landshaftov Priel'brus'ya / A. M. Aleynikova, M. N. Petrushina // Lod i sneg. – 2011. – № 2(114). – S. 127-134. – EDN PJEMMH. (In Russian)
Stream/River Network	Available on request
Basin Delineation / Shapefile	Available on request

Observation Stations

Type	Station Name	Latitude
Meteorological	Djankuat Base Camp AWS	43.208
Meteorological	Djankuat Glacier AWS 1	43.198
Meteorological	Djankuat Glacier AWS 2	43.200
Meteorological	Djankuat Glacier AWS 3	43.193
Hydrological	Djankuat River Base Camp Gauging Station	43.209
Hydrological	Djankuat River Rock Gauging Station	43.213

<

>

Data Availability and Access

Data and Datasets (Links / DOIs to published or available data and descriptions)

Rets, E. P., Popovnin, V. V., Toropov, P. A., Smirnov, A. M., Tokarev, I. V., Chizhova, J. N., Budantseva N. A. et al. 2019 Djankuat glacier station in the North Caucasus, Russia: a database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007–2017. Earth System Science Data 11, 3, 1463-1481.

Rets, EP, Popovnin, VV, Toropov, PA et al. (2022): Hydrological, meteorological observations and isotope sampling results during 2010-2020 at Djankuat

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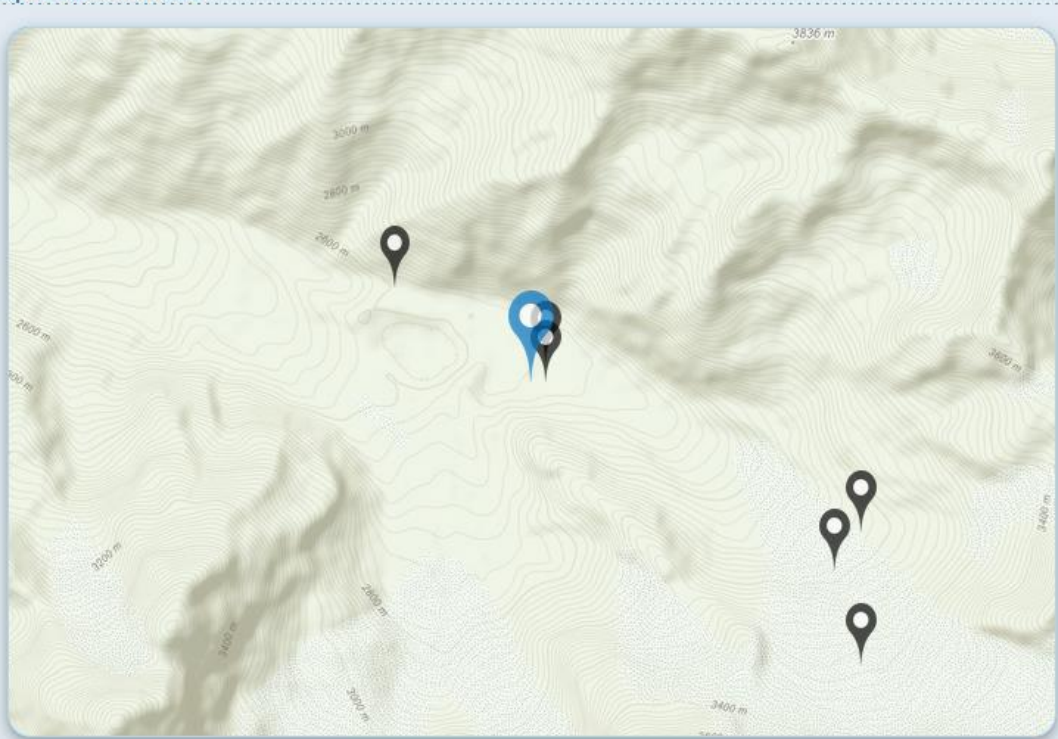
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Map of Research Site



3836 m

3600 m

3400 m

3200 m

3000 m

2800 m

2600 m

2400 m

2200 m

2000 m

1800 m

1600 m

1400 m

1200 m

1000 m

800 m

600 m

400 m

200 m

0 m

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Djankuat River Rock Gauging Station (Hydrological), 2600 m

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Description:
Djankuat Research Basin, Russia

Latitude:
43.208

Longitude:
42.735

Classification:
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Subclassification:

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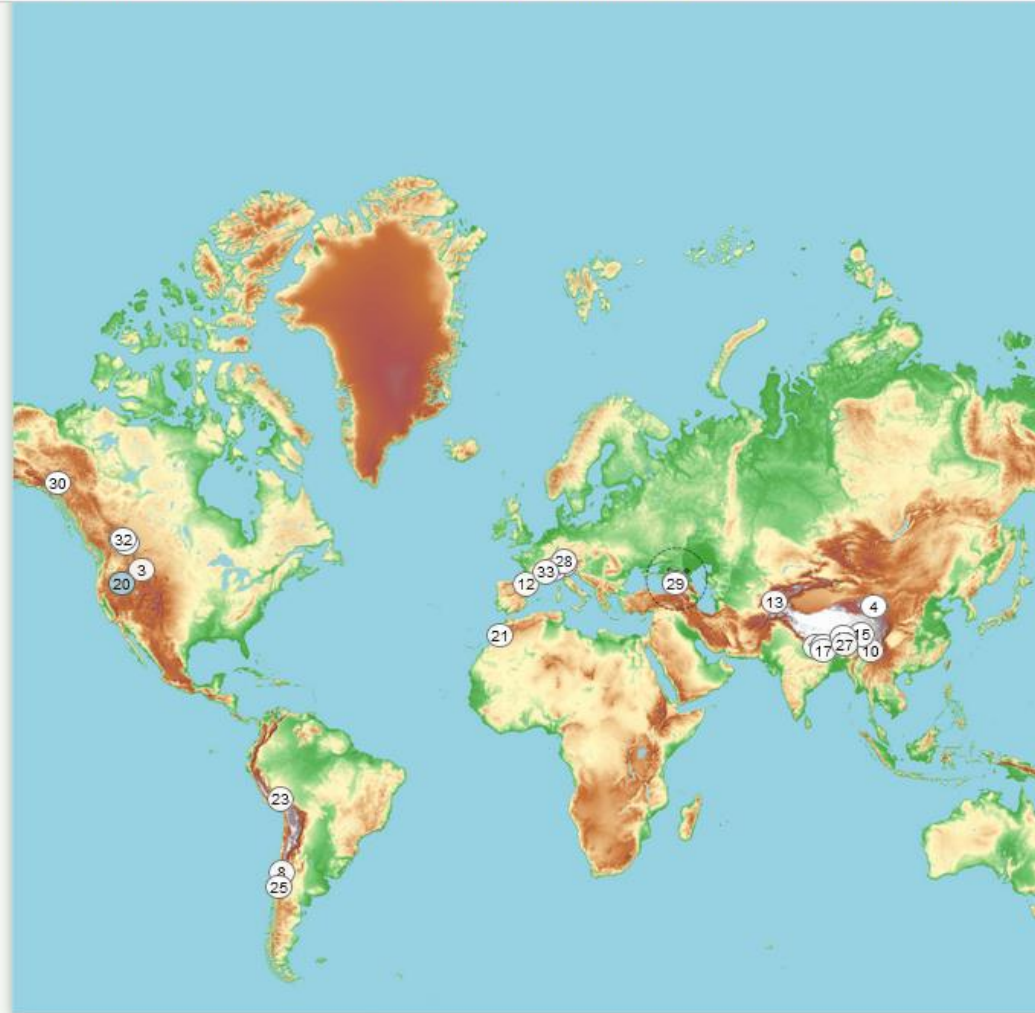
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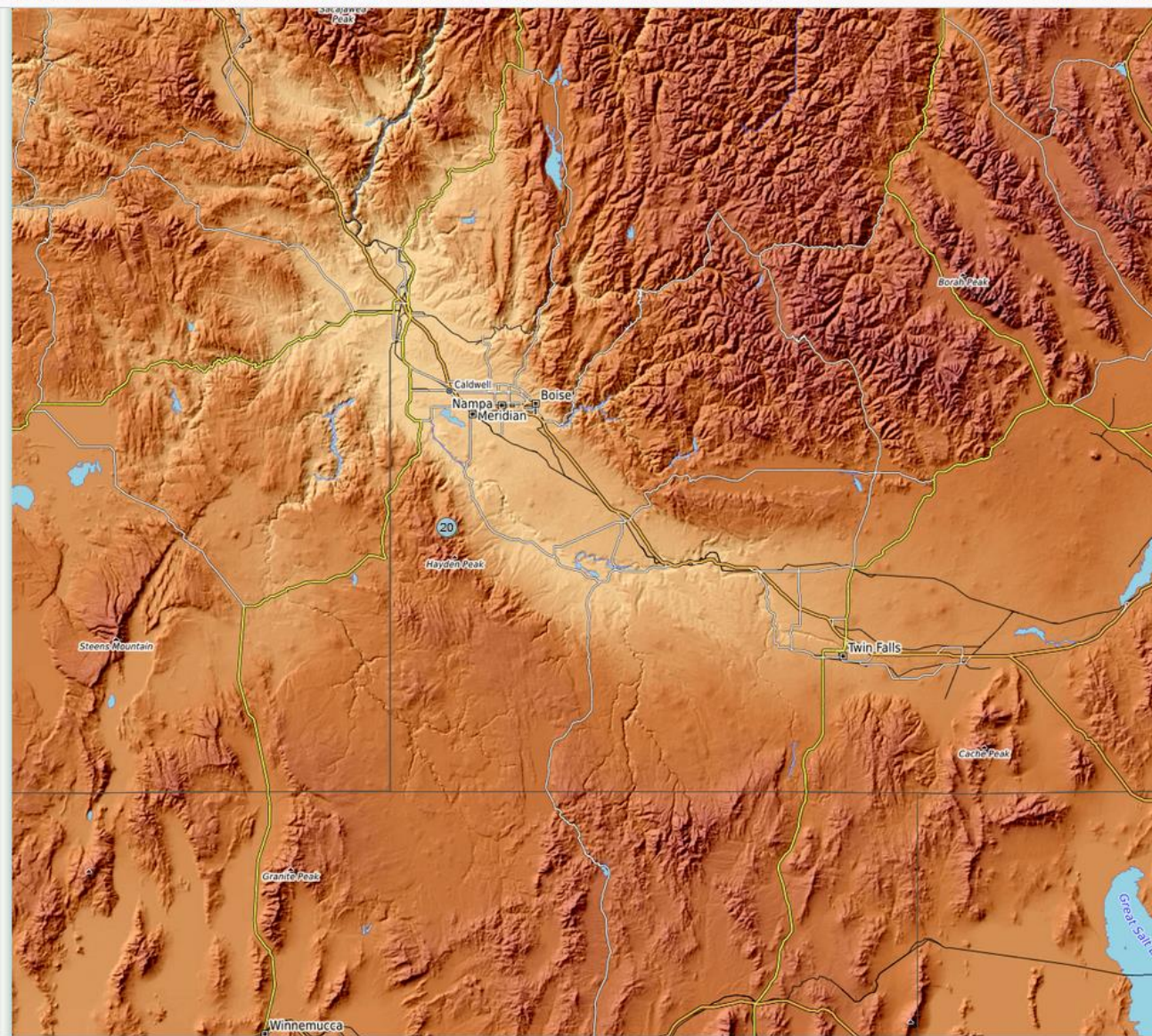
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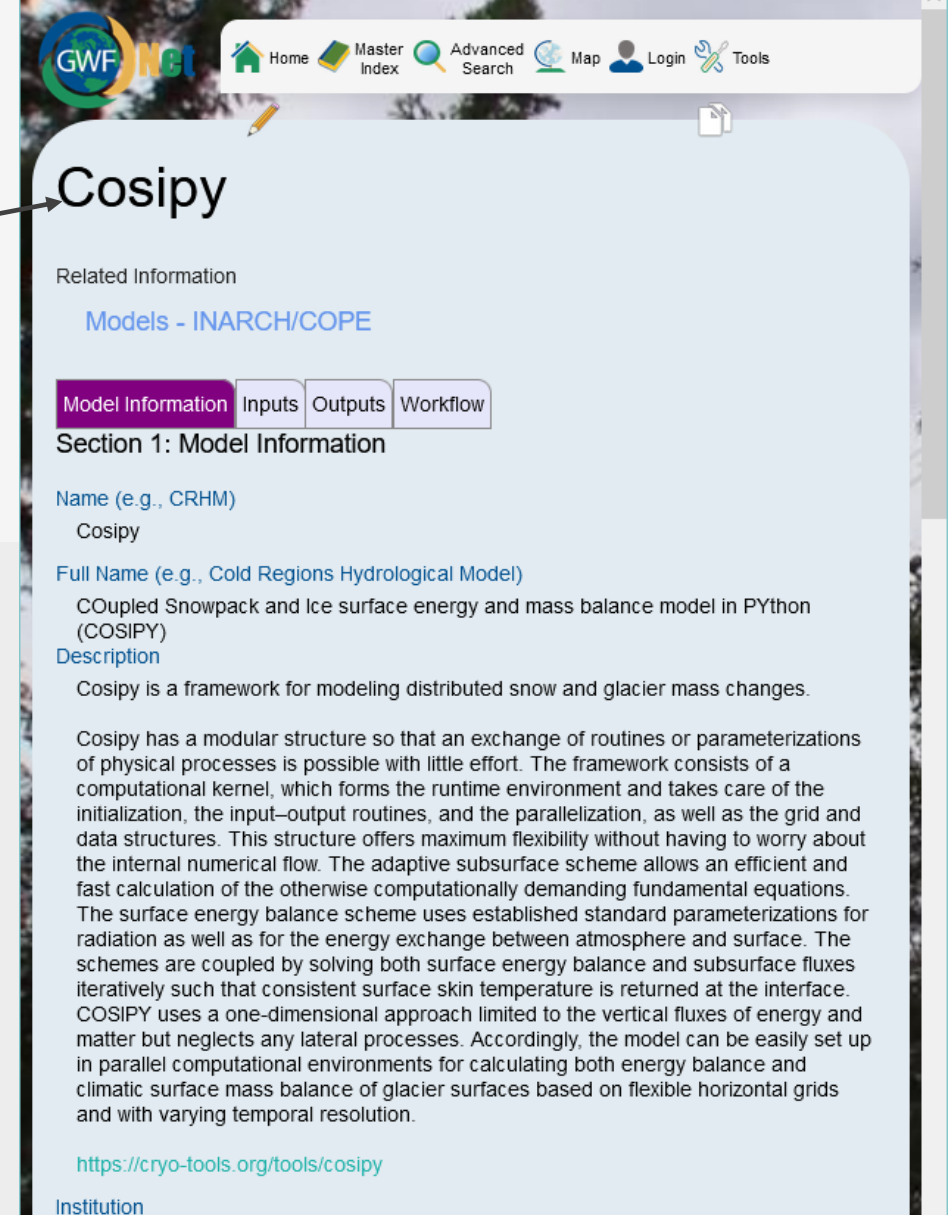
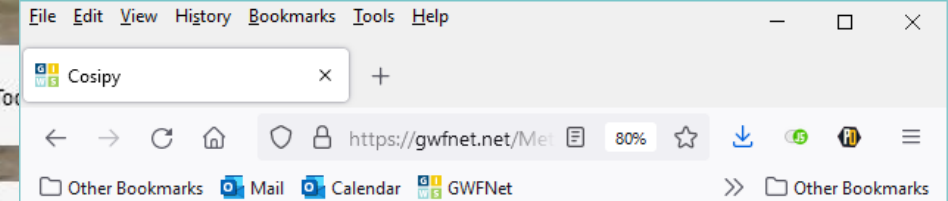
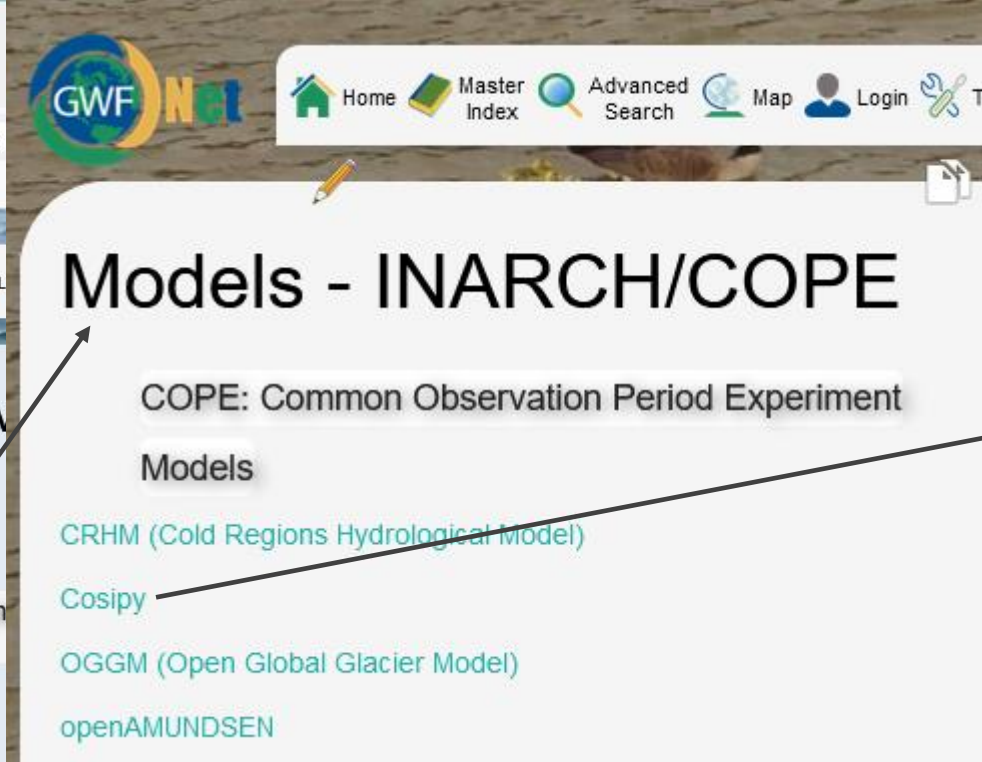
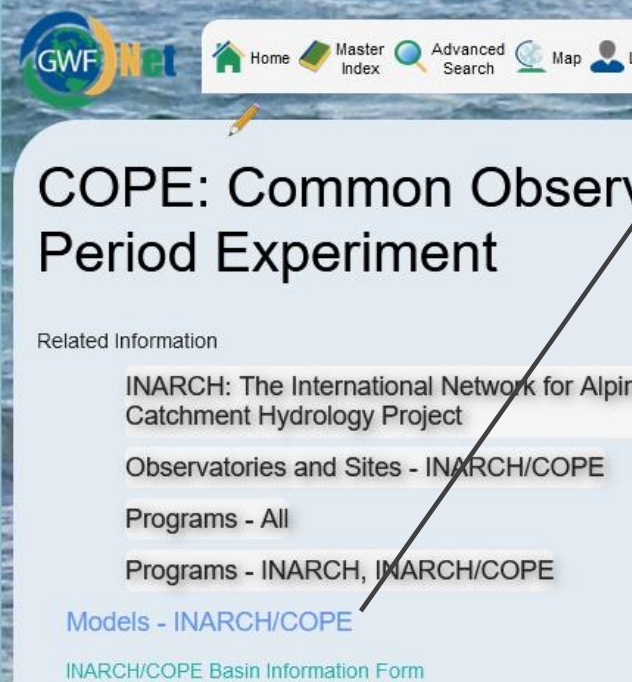
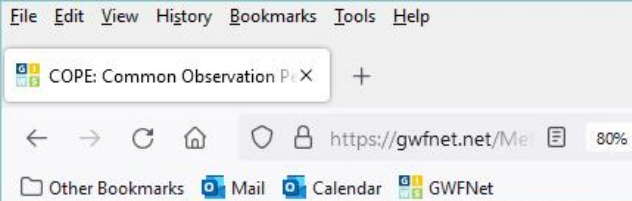
[Izas Experimental Catchment, Spain \(COPE\)](#)

[Kyzylsu Catchment, Tajikistan \(COPE\)](#)

[Langtang Catchment, Nepal \(COPE\)](#)

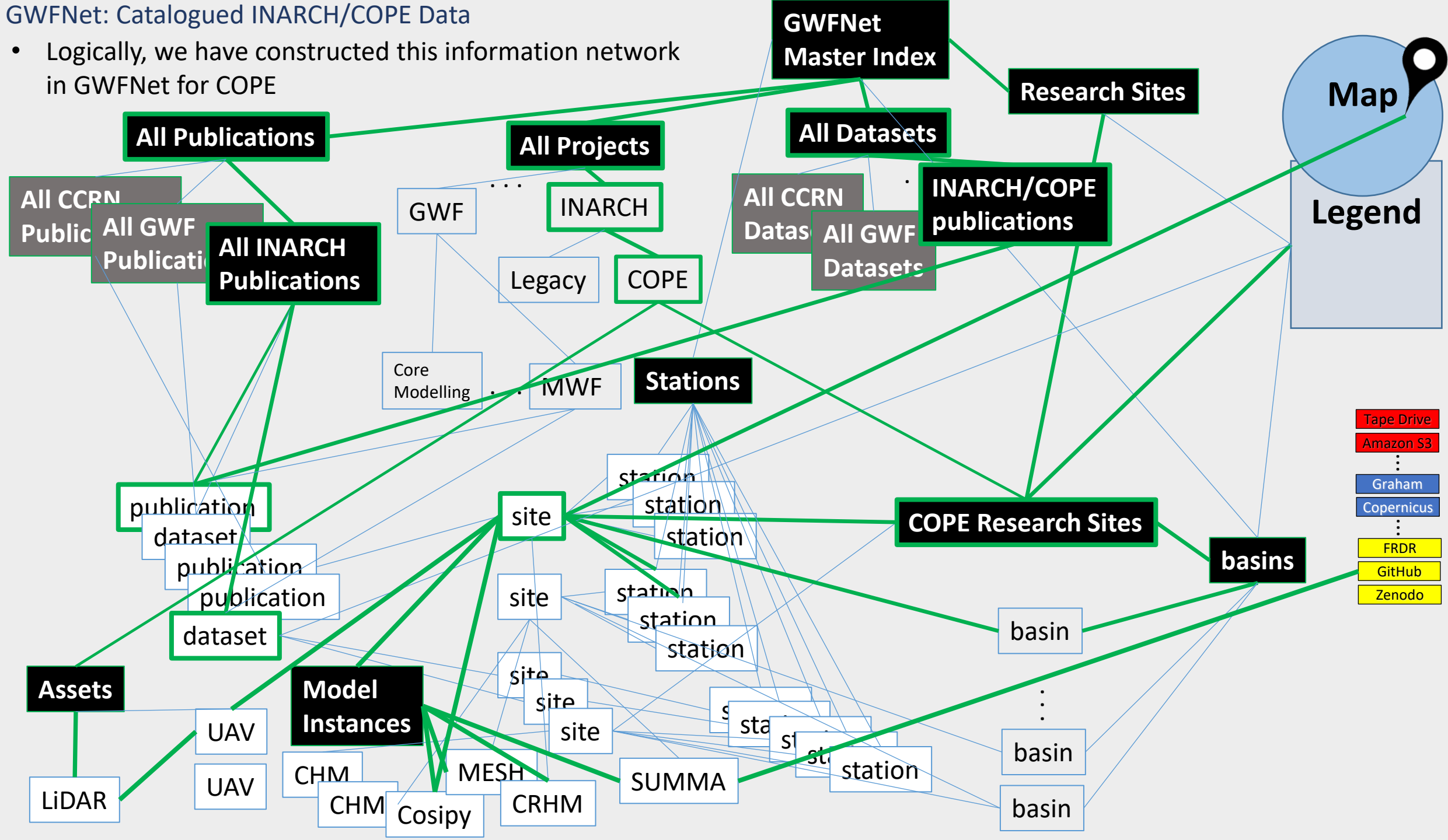
- 8 Estero Las Bayas, Chile
- 9 Fortress Mountain, Canada (COPE)
- 10 Hengduan Mountain, China
- 11 Hidden Valley Catchment, Nepal
- 12 Izas Catchment, Spain
- 13 Kyzylsu Catchment, Tajikistan
- 14 Langtang Catchment, Nepal
- 15 Leiwuqi/Rioche Site (Changdu/Qamdo), China
- 16 Marmot Creek Research Basin
- 17 Mt. Everest, China
- 18 Nam Co Lake Area
- 19 Peyto Glacier
- 20 Reynolds Creek, USA
- 21 Rheraya Catchment, Morocco
- 22 Rofental High Alpine Research Basin, Austria
- 23 Salcca-Sibinacocha, Peru
- 24 Torgnon, Italy
- 25 Valle Hermoso, Chile
- 26 Wolf Creek
- 27 Yarla Shampo Glacier
- 28 Zugspitze Catchment, Germany
- 29 Glaciological, hydrological, meteorological observations and isotopes sampling results during 2007-2017 at Djankuat Glacier Station in the North Caucasus, Russia
- 30 Hydrometeorological data collected at Wolf Creek Research Basin, Yukon Territory, Canada over 1993-2014





GWFFNet: Catalogued INARCH/COPE Data

- Logically, we have constructed this information network in GWFNet for COPE



Advanced Search

Global Search

Template-based Search

Publication v1.0.xml

Publication	Abstract	Download	Computed Information
-------------	----------	----------	----------------------

Authorship

Pomeroy & Clark

Title

Year

2020 || 2021

Publication Outlet

DOI

Find

☐ Match All Fields

☒ Match Any Fields

Clear

Set Output Variables

[Back](#) | [Home](#)

389 results found

1 Publication 1.0

T-2021-11-12-b10XOum3j0EuNxVtfuyS5TA

RecordTitle

Publication 2018: ESM-SnowMIP: Assessing models and quantifying snow-related climate feedbacks

Authorship

Crinner, G., Derksen, C., Essery, R., Flanner, M., Hagemann, S., Clark, M., Hall, A., Rott, H., Brutel-Vuilment, C., Kim, H., Ménard, C., Mudryk, L., Thackeray, C., Arduini, G., Bartlett, P., Boone, A., Chérut, F., Colin, J., Cuntz, M., Dai, Y., Decharme, B., Derry, J., Ducharme, A., Dutra, E., Fang, X., Fierz, C., Ghattas, J., Gusev, Y., Haverd, V., Kontu, A., Lafayssse, M., Law, R., Lawrence, D., Li, W., Marke, T., Marks, D., Nasonova, O., Nitta, T., Niwano, M., Pomeroy, J., Raleigh, M.S., Schaedler, G., Semenov, V., Smirnova, T., Stacks, T., Strasser, U., Svenson, S., Turkov, D., Wang, L., Wang, T., Wever, N., Yuan, H. and Zhou, W.

Title

ESM-SnowMIP: Assessing models and quantifying snow-related climate feedbacks

Year

2018

2 Publication 1.0

T-2021-11-14-p1Lv4JVLp2CUK3H0WtZvU2vQ

RecordTitle

Publication 2020: Impacts of predicting the liquid fraction of mixed-phase particles on the simulation of an extreme freezing rain event: the 1998 North American Ice Storm

Authorship

Cholette, M., Thériault, J. M., Milbrandt, J. A., & Morrison, H.

Title

Impacts of predicting the liquid fraction of mixed-phase particles on the simulation of an extreme freezing rain event: the 1998 North American Ice Storm

Year

2020

Advanced Search

Template-based Search

Choose Template:
COPE_Research_Site_v1.0.xml

Record Title

Site Overview

Map

Forcing Data

Hydrological Instrumentation

Hydrometric/Cryospheric Measurements

Hydrological Modelling Data

Section 3: Forcing Data

Standard Forcing Variables

Forcing Variable	Instrumentation Description	Temporal Resolution
T		Select option
RH		Select option
K in		Select option
K out		Select option
L in	Kipp and Zonen	Select option

GWFFNet

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Brewster Glacier Research Site #1

Page link

Related Information

Brewster Glacier, New Zealand (COPE)

Site Overview

Map

Forcing Data

Hydrological Instrumentation

Hydrometric/Cryospheric Measurements

Hydrological Modelling Data

Section 3: Forcing Data

Standard Forcing Variables

Forcing Variable	Instrumentation Description	Temporal Resolution
T	Vaisala HMP 45 AC	
RH	Vaisala HMP 45 AC	
K in	Kipp and Zonen CNR1	
K out	Kipp and Zonen CNR1	
L in	Kipp and Zonen CNR1	
L out	Kipp and Zonen CNR1	
Net Radiometer	Kipp and Zonen CNR1	
Wind Speed	RM Young 01503	
Wind Direction	RM Young 01503	
Precipitation	TB4	
Pressure	Vaisala PTB 110	

Additional Forcing Variables

Variable	Instrumentation Description	Temporal Resolution
		Select option

Additional Forcing Variable Information

Advanced Search

- Select Template (e.g., Catchment) and immediately press Find -- gives list of all Catchment records!

Global Search

Search Term or Ref# (all or part)

Find

☒ Match All Fields

☐ Match Any Fields

Clear

Set Output Variables

Template-based Search

Choose Template:

COPE_Catchment_v1.0.xml

Record Title

Catchment Information

Map of Catchment and Site Location(s)

Section 1: Catchment Information

Catchment Name

Country

Mountain Range

Primary Contacts

Vtable with columns: Name, Role, and Institution, Country, and Contact Information

Catchment Location

Coordinate Format	Latitude	Longitude
Degrees Minutes Seconds		

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Search Results

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23 results found

1

COPE Catchment 1.0

T-2022-05-11-C1IY8eNFdy062nK9B0AUFIg

RecordTitle

Brewster Glacier, New Zealand (COPE)

COPECatchmentName

Brewster Glacier

COPECatchmentCountry

New Zealand

2

COPE Catchment 1.0

T-2022-08-11-Z12HHaDnKRECZ2VLrmFRQAgg

RecordTitle

Bridger Range, USA (Cope)

COPECatchmentName

Bridger Range

COPECatchmentCountry

USA

3

COPE Catchment 1.0

T-2022-09-22-r104BzN4XuUebMr1r2OyAMaRA

RecordTitle

Dischma/Davos, Switzerland (COPE)

COPECatchmentName

Dischma/Davos

Version 2

GWFNet2

Appearance and Operation:

- Exact same appearance

- Current features are exactly the same or improved

Database:

- Moves away from NoSQL (MongoDB):

Collection

GWFFNetDB.**Metadata**

Documents

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  },
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    },
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    "MetadataParentId": "",
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    "Authorship": "Rets Ekaterina P., Popovnin Viktor V., Toropov Pavel A., Smirnov",
    "Title": "Djankuat glacier station in the North Caucasus, Russia: a database of",
    "Year": "2019",
    "PublicationOutlet": "Earth Syst. Sci. Data, 11, 1463-1481",
    "DOI": "https://doi.org/10.5194/essd-11-1463-2019",
    "ISBN": "",
    "ISSN": "",
    "Citation": "",
    "Abstract": "This study presents a dataset on long-term multidisciplinary glaciological",
    "Summary": "",
    "Program": "INARCH: International Network of Alpine Research Catchment Hydrology",
    "Project": "",
    "CreatorsAndContributors": "",
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    "AdditionalInformation": "",
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GWFNet2

Appearance and Operation:

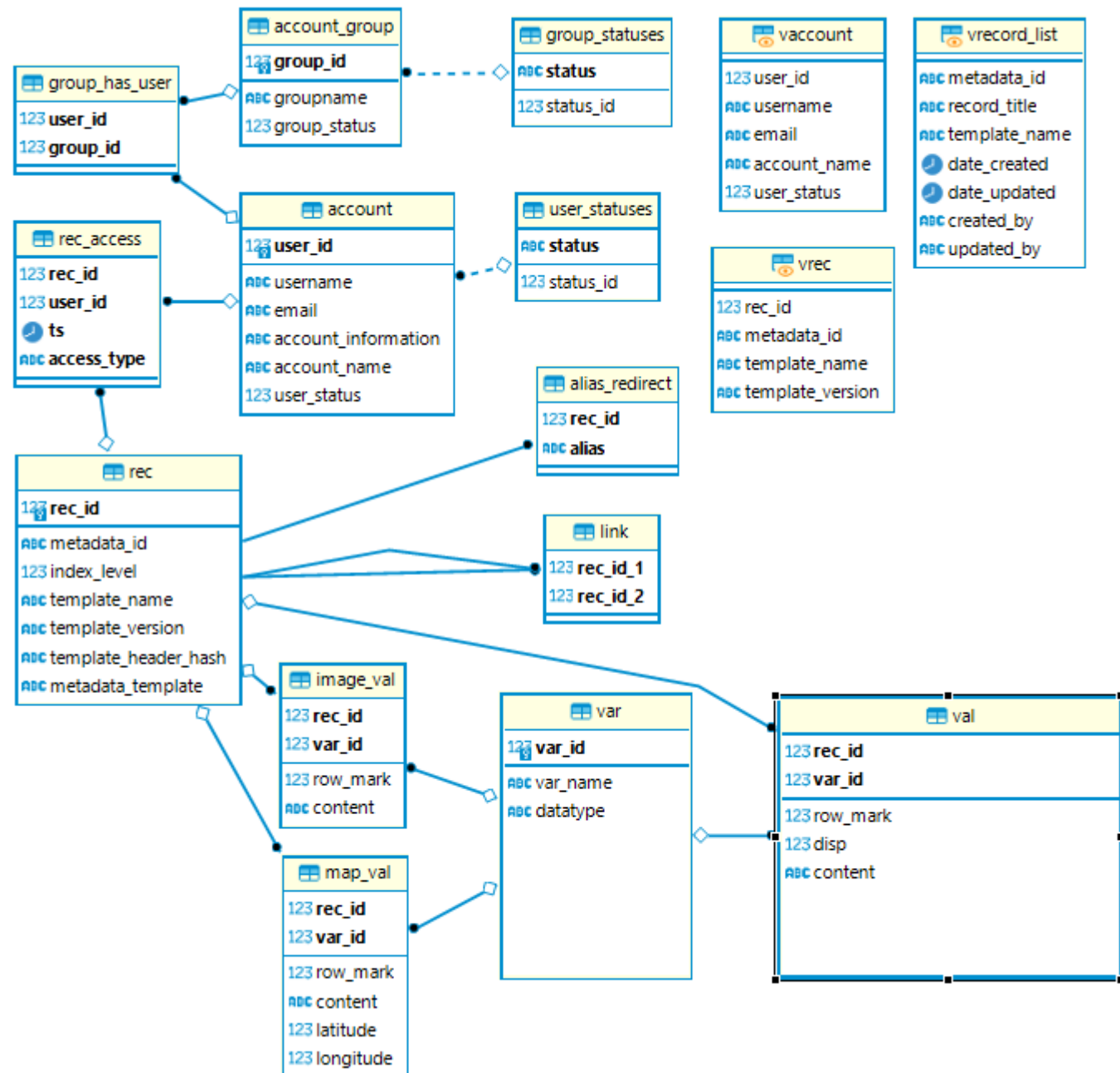
- Exact same appearance

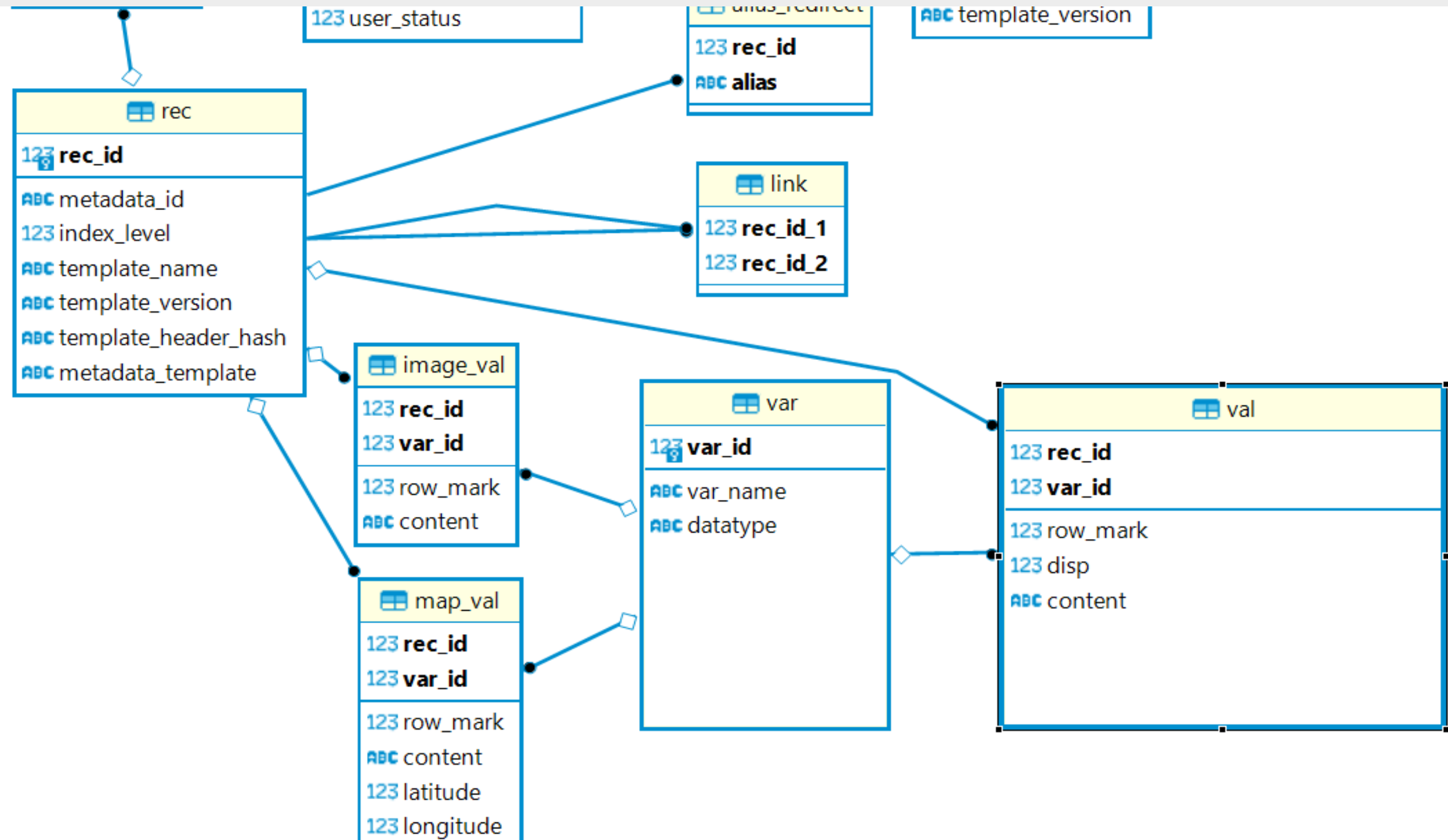
- Current features are exactly the same or improved

Database:

- Moves away from NoSQL (MongoDB) to equivalently flexible SQL schema enabling overlaying of features needed for various programs (e.g., GWFO, Canada Water Agency)

- Schema is value-centric (rather than record-centric) as the value will be under significant scrutiny by rapid searches, complex searches, machine learning and artificial intelligence algorithms that may be implemented to create “inferred links” available to the user when switched on:





GWFNet2

Appearance and Operation:

Exact same appearance

Current features are exactly the same or improved

Database:

Moves away from NoSQL (MongoDB) to equivalently flexible SQL schema enabling overlaying of features needed for various programs (e.g., GWFO, Canada Water Agency)

Schema is value-centric (rather than record-centric) as the value will be under significant scrutiny by rapid searches, complex searches, machine learning and artificial intelligence algorithms that may be implemented to create “inferred links” available to the user when switched on

In addition, values can be given private access to individual users or groups where needed (e.g., distribution of keys to unlock datasets restricted to only certain users)

With version 2, GWFNet will employ standard databases (choice of SQLServer, PostgreSQL, and MySQL) rather than MongoDB –standard databases will not go away anytime soon, whereas MongoDB is getting a bit iffy

Searches

Very, very fast using trigram indexing (especially for inexact and regular expression searches)

Improved advanced search enabling per-field usage of quotes, plus sign, and minus sign, e.g.,

Abstract: [beaver +”j.*pomeroy” -rainfall -”northern alberta”](#)

Status

Equivalence with GWFNet1 has been completed

Testing is being performed now and GWFNet version2 will come online in early November/2023



GWFFNet

The end, thank you.