



Monitoring project for global warming effects on alpine zone (Image data)

1. IDENTIFICATION INFORMATION

Name	Monitoring project for global warming effects on alpine zone (Image data)
Metadata Identifier	AlpinePicture_jp20230727090401-en

2. CONTACT

2.1 CONTACT on DATASET

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4. DATASET CREATOR

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2016-01-19

7. DATASET OVERVIEW

7.1 Abstract

The vulnerability of alpine ecosystems to climate change, as pointed out by IPCC, and the necessity to conduct monitoring in the alpine zone have been recognized worldwide. We are, therefore, monitoring the ecosystems in the Japanese alpine zone by using digital repeat photography in order to understand the snow cover period and the phenology of the alpine plants. By comparing the photographs taken at the same time each year, we can determine the time for snow fall and melting and the spatial differences in their speed, as well as the phenology of the alpine flora from leaf flush to autumn coloring. Long-term continuous camera-based monitoring provides information on the response of alpine flora to the climate, and helps us understand the variations in the distribution of alpine flora. These photographs are also released to the public from our web site in a near-real-time manner.

7.2 Topic Category(ISO19139)

biota

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	2009-09-06
End Date	Under Continuation
Temporal Characteristics	Hourly

7.4 Geographic Bounding Box

North latitude	bound	45.249722
West longitude	bound	137.55250
Eastbound longitude		141.310556
South latitude	bound	35.4336111

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Biosphere > Terrestrial Ecosystems > Alpine/Tundra	GCMD_science
theme	Asia > Eastern Asia > Japan	Country
theme	Hokkaido, Naganao, Toyama, Gifu	Observation place

7.7.2 Keywords on Project

7.8 Online Resource

Monitoring project for global warming effects on alpine zone : <http://db.cger.nies.go.jp/gem/ja/mountain/>

Alpine belt vegetation monitoring : <http://www.cger.nies.go.jp/cgernews/201112/253005.html>

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
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8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

Observation dataset is copyrighted to Center for Global Environmental Research (CGER), National Institute for Environmental Studies (NIES). You can use the data only for noncommercial purpose. For any publication using data, CGER/NIES must be informed and its approval must be obtained prior to publishing. The data provider may request co-authorship or acknowledgements. Please be informed that we have no concern with your cost by using the data.

10.2 Data Policy by the Project

11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

12.2 Acknowledge the Project

13. REFERENCES