

## 1. IDENTIFICATION INFORMATION

Name	MLIT XRAIN XMP raw
Metadata Identifier	MLIT_XRAIN_raw20230727084343-DIAS20221121113753-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

Name	Ministry of Land, Infrastructure, Transport and Tourism Water and Disaster Management Bureau River Planning Division River Information Policy Planning Office
Organization	Ministry of Land, Infrastructure, Transport and Tourism Water and Disaster Management Bureau River Planning Division River Information Policy Planning Office
E-mail	hqt-dias@gxb.mlit.go.jp

### 2.2 CONTACT on PROJECT

#### 2.2.1 Data Integration and Analysis System

Name	DIAS Office
Organization	Japan Agency for Marine-Earth Science and Technology
Address	3173-25, Showa-Cho, Kanazawa-ku, Yokohama-shi, Kanagawa, 236-0001, Japan
E-mail	dias-office@diasjp.net

## 3. DOCUMENT AUTHOR

Name	Ministry of Land, Infrastructure, Transport and Tourism Water and Disaster Management Bureau River Planning Division River Information Policy Planning Office
Organization	Ministry of Land, Infrastructure, Transport and Tourism Water and Disaster Management Bureau River Planning Division River Information Policy Planning Office

## 4. DATASET CREATOR

Name	Ministry of Land, Infrastructure, Transport and Tourism Water and Disaster Management Bureau River Planning Division River Information Policy Planning Office
------	---

Organization	Ministry of Land, Infrastructure, Transport and Tourism Water and Disaster Management Bureau River Planning Division River Information Policy Planning Office
--------------	---

## 5. DATE OF THIS DOCUMENT

2023-07-27

## 6. DATE OF DATASET

publication : 2010-07-05

## 7. DATASET OVERVIEW

### 7.1 Abstract

MLIT\_XRAIN\_raw data are the physical quantities directly measured by each X-MP radar to produce XRAIN precipitation data. The following eight quantities are available:

Horizontally polarized received power (Prh-NOR),

Vertically polarized received power (Prv-NOR),

Horizontally polarized received power processed through MTI (Moving Target Indicator) (Prh-MTI),

Vertically polarized received power processed through MTI (Prv-MTI),

Differential phase ( $\phi$ DP)

Correlation coefficient between vertically- and horizontally-polarized received powers ( $\rho$ HV)

Doppler velocity of horizontal polarization (V), &

Variance of doppler velocity of horizontal polarization (W)

Note that the Raw data of X-MP radars only are currently available on DIAS and do not include any data of the C-MP radars.

For details of the data format, please refer to the "XRAIN raw and intermediated data format" (written in Japanese only), which is available from the XRAIN Original Data Download System.

For more information on XRAIN and synthetic radar rainfall, please refer to the "Radar Rain Gauge for Practical Engineers" (in Japanese) on the website of the River Information Center of Japan, the URL of which is listed under "Online Information" below.

### 7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	2010-07-05
------------	------------

End Date	Under Continuation
----------	--------------------

## 7.4 Geographic Bounding Box

North latitude	bound	43.922222
West longitude	bound	129.550000
Eastbound longitude		142.570833
South latitude	bound	30.833333

## 7.5 Grid

## 7.6 Geographic Description

## 7.7 Keywords

### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Precipitation	GCMD_science

### 7.7.2 Keywords on Project

#### 7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS &gt; Data Integration and Analysis System	No_Dictionary

## 7.8 Online Resource

FRICS “Radar Rain Gauge for Practical Engineers” (in Japanese) : <http://www.river.or.jp/jigyo/radar/314.html>

## 7.9 Data Environmental Information

# The data of the Ichihazama radar site do not exist after December 14, 2015, because of removal.  
 # The data of the Ichinoseki radar site do not exist after February 13, 2017, because of removal.  
 # From July 9, 2018 the following 3 radar sites were added. 1. Takanosu (Akita Pref.) : X-band MP radar, 2. Myoujinnsan (Ehime Pref.): C-band MP radar, 3. Happonngiyama (Nagasaki Pref.): C-band MP radar. # From October27, 2020, the following 1 radar site was added. 1. Hakodake (Hokkaido Pref.): C-band MP radar. # From January 24, 2021, the following 1 radar site was added. 1. Houdatsusan (Hokuriku): C-band MP radar. # From August 29, 2022, the following 1 radar site was added. 1. Muriyama (Hokkaido) : C-band MP radar.

---

## 7.10 Distribution Information

name	version	specification
------	---------	---------------

## 8. DATA PROCESSING

## 9. DATA REMARKS

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

1. XRAIN data sets are to be used only for scientific research or educational purposes, and shall not be used for any other purposes, including for profit, than stated in the application form.

2. User shall provide the name, affiliation, contact information of the person responsible for the research group that will use this data, as well as the purpose of use.

Unless there are special circumstances, the period of use shall be limited to three years in principle.

However, if it is confirmed that the terms of use have been violated, the use of the data may be suspended regardless of the period of use.

3. After the end of the period of use of this data or the suspension, user shall discontinue to use and promptly destroy this data.

However, this shall not apply to the retention of this data as the basis for conference presentations, thesis presentations, journal publications, reports, etc. using this data.

4. Any modification or change of the original XRAIN data sets is prohibited.

5. User shall not provide the original XRAIN data sets to any third party outside of the research group.

6. If user has made a conference presentation, paper presentation, journal presentation, or report using this data, submit a copy of the publication (reprint in the case of a paper, or a copy of the abstract in the case of an oral or poster presentation) to the contact and mailing address below.

#### \* Contact

River Information Planning Office, River Planning Division, Water Management and Land Conservation Bureau, Ministry of Land, Infrastructure, Transport and Tourism.

Chuo Joint Government Building No. 3,

2-1-3 Kasumigaseki, Chiyoda-ku, Tokyo 100-8918, Japan

Email: hqt-dias@gxb.mlit.go.jp

User shall also submit to the address specified in the Terms of Use of the Project.

7. User shall cooperate with inquiries from the data provider concerning the contents of materials using this data (materials submitted to the data provider in accordance with 6.)

---

about the documents submitted by the rule 5.

<Disclaimer>

1. Data provider shall not liable for any losses or any damage from the use of XRAIN data sets.
2. Data provider may discontinue to provide XRAIN data sets without any prior notice.
3. Data provider does not support any additional processing or analysis of the provided data.

## 10.2 Data Policy by the Project

### 10.2.1 Data Integration and Analysis System

If data provider does not have data policy, DIAS Terms of Service (<https://diasjp.net/en/terms/>) and DIAS Privacy Policy (<https://diasjp.net/en/privacy/>) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

## 11. LICENSE

## 12. DATA SOURCE ACKNOWLEDGEMENT

### 12.1 Acknowledge the Data Provider

Whenever XRAIN data sets are used for any academic presentations, and any publication of scientific results, the author(s) shall specify the source of the Products.

Example:

"XRAIN data sets used for this study are provided by Ministry Land, Infrastructure, transport and Tourism, Japan"

### 12.2 Acknowledge the Project

#### 12.2.1 Data Integration and Analysis System

If you plan to use this dataset for a conference presentation, paper, journal article, or report etc., please include acknowledgments referred to following examples. If the data provider describes examples of acknowledgments, include them as well.

" In this study, [Name of Dataset] provided by [Name of Data Provider] was utilized. This dataset was also collected and provided under the Data Integration and Analysis System (DIAS), which was developed and operated by a project supported by the Ministry of Education, Culture, Sports, Science and Technology. "

## 13. REFERENCES