WMO/IOC/UNEP/ICSU
GLOBAL CLIMATE OBSERVING
SYSTEM (GCOS)

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Session 5

GRUAN Site Report for Xilinhot

(Submitted by Luo,Hao Wen)

Summary and Purpose of this Document

Report from the GRUAN site Xilinhot for the period January 2022 to December 2023.

Overview

Xilinhot was accepted as a GRUAN candidate site in October 2008. In March 2023, Xilinhot began on GRUAN observation with the operational data on GTH3 radiosonde(Twice a day), RS41 radiosonde(Twice a week) and CYT-1 ECC ozone sonde(Once a week). All GTH3,RS41 and CYT-1 ECC ozone sonde launches will be perform in accordance with GRUAN operational procedures, which means the application of a manufacturer-independent ground check of the GTH3 and RS41 radiosonde in a Standard Humidity Chamber (SHC) at 0% and 100% RH prior to launch.

Change and change management

For the initial implementation of GRUAN observation, the operation process needs further guidance from the Lead Centre.

Resourcing

The situation at Xilinhot is positive, having stable financial and personnel resources to perform and sustain routine and scheduled launches.

Operations

In 2023, The Xilinhot not using the RsLaunchClient to submit data.

Covid-19

In 2023, Covid-19 did not affect the operational radiosoundings.

Site assessment and certification

In March 2023, Xilinhot began on GRUAN observation. The station plans to go through the certification process in the next three years.

GRUAN-related research

NIL

WG-GRUAN interface

NIL

Other archiving centers

NIL

Participation in campaigns

Intercomparison soundings or ancillary measurements that would be valuable for the RS41-GTH3 transition within GRUAN

Future plans

- Continue RS41-GTH3 intercomparison, continue sounding program with research/reference sondes (e.g. CFH).
- Establish the GDP RS41 v1 and GDP GTH3 v1

GRUAN Site Report for Xilinhot (XIL), 2022

Reported time range is Jan 2022 to Dec 2022
Created by the Lead Centre
Version from 2024-03-01

1 General GRUAN site information

Object	Value
Station name	Xilinhot
Unique GRUAN ID	XIL
Geographical position	43.9500 °N, 116.1200 °E, 1013.0 m
Operated by	IMWB | Inner Mongolia Weather Bureau
Main contact	Luo, Hao Wen
WMO no./name	54102 XILINHOT
Operators	currently 0, changes +0 / -0
Sounding Site	1
GNSS	1

1.1 General information about GRUAN measurement systems

System	Name	Type	Setups	Measurements
XIL-GN-01	GNSS Site XLHT	GNSS	0	not operational
XIL-RS-01	Xilinhot Radiosonde Launch Site	Sounding Site	0	0

1.2 General comments from Lead Centre

1.2.1 General

No dataflow to GRUAN LC has been established yet.

1.2.2 Request

In view of the prolonged absence of data submission to the Lead Centre, the site is encouraged to take the necessary steps to establish an operational data flow. In this regard, establishing a data stream for the radiosoundings has priority, followed by data submission of GNSS water vapor measurements.

2 System: GNSS Site XLHT (XIL-GN-01)

Object	Value
System name	GNSS Site XLHT
Unique GRUAN ID	XIL-GN-01
System type	GNSS (GN - GNSS)
Geographical position	43.9500 °N, 116.1100 °E, 993.0 m
Operated by	IMWB | Inner Mongolia Weather Bureau
Instrument contact	Luo, Hao Wen
Started at	-
Defined setups	-
Possible streams	-

2.1 Lead Centre comments

2.1.1 Dataflow

No GNSS dataflow to LC has been established yet.

3 System: Xilinhot Radiosonde Launch Site (XIL-RS-01)

Object	Value
System name	Xilinhot Radiosonde Launch Site
Unique GRUAN ID	XIL-RS-01
System type	Sounding Site (RS - Radiosonde)
Geographical position	43.9500 °N, 116.1100 °E, 1013.0 m
Operated by	IMWB | Inner Mongolia Weather Bureau
Instrument contact	Luo, Hao Wen
Started at	-
Defined setups	-
Possible streams	-

3.1 Lead Centre comments

3.1.1 Dataflow

No dataflow of radiosonde measurements to LC has been established yet.

GRUAN Site Report for Xilinhot (XIL), 2023

Reported time range is Jan 2023 to Dec 2023
Created by the Lead Centre
Version from 2024-03-01

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Operated by	IMWB | Inner Mongolia Weather Bureau
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WMO no./name	54102 XILINHOT
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1.2 General comments from Lead Centre

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Instrument contact	Luo, Hao Wen
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2.1 Lead Centre comments

2.1.1 Dataflow

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Geographical position	43.9500 °N, 116.1100 °E, 1013.0 m
Operated by	IMWB | Inner Mongolia Weather Bureau
Instrument contact	Luo, Hao Wen
Started at	-
Defined setups	-
Possible streams	-

3.1 Lead Centre comments

3.1.1 Dataflow

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