

CHEESEHEAD specific metadata collection

- General information for all campaigns
- Radiosonde campaign specific information

General information for CHEESEHEAD

Campaign name	Chequamegon Heterogeneous Ecosystem Energy-balance Study Enabled by a High-density Extensive Array of Detectors (CHEESEHEAD)
Campaign location	Park Falls, WI
Scheduled campaign dates (IOPs)	June 24 - Oct 11, 2019 (July 8-12, Aug 19-24, Sept 23-28)
Expected number of soundings	(Need to fill in)
Names and contacts (email) of PI's	(Need to fill in)
Is real time data transmission to GTS requested	(Need to fill in)
Date of data access restriction removal	(TBD)
Location of local data storage in Boulder after transmission from field	(Need to fill in)
Data manager point of contact	Linda Cully

Radiosonde campaign specific information

Please fill out during setup and do not change during the project.

General sounding configuration (excluding site configuration)	mw41SettingsArchive_2019-05-24T001409.xml
Station name (following the ISF naming convention)	Cheesehead_ISS1
WMO station index number	0 0
WMO region number	North America
Message type	Mobile
Latitude (decimal degrees)	+45.945810
Longitude (decimal degrees)	-90.293870
Altitude (of the ground at the launch site in meters above mean sea level)	463
Launch site offset	0
Barometer offset (Reference pressure sensor altitude above ground, must be positive and must be measured after installation)	2
GPS antenna offset (must be positive and must be measured after installation of the Vaisala system GPS antenna)	2
Header for TEMP messages (must be followed by ~SMD2~SMH200\r\n)	UMXX32 KWBC
Header for BUFR messages (must be followed by ~SMD2~SMH200\r\n)	IUSX02 KWBC
Log file template	issX_sounding_field_log_template.xls

Sounding system configuration

- 1) First, update the system configuration by loading the latest file from the system back-up section: [System backup and restore](#)
- 2) Next, update the site specific configuration: (see [Configuration of the Vaisala MW41 radiosonde system](#) for details), following the information above.

Administration -> Sounding -> Station -> Edit

Message configurations

- **BUFR messages**

The triggers and the message destination should already be set properly, only the message generation needs to be enabled and the header set properly.

Administration -> Sounding -> Messages -> WMO Messages -> BUFR -> BUFR309052 All levels -> Edit

Message Header: IUSX02 KWBC ~SMD2~SMH200\r\n
Automatic message generation: Enabled
Triggers: At the end of ascending sounding

- **TEMP messages** (once for each of TEMP A, B, C, and D)

The triggers and the message destination should already be set properly, only the message generation needs to be enabled and the header set properly.

A) Administration -> Sounding -> Messages -> WMO Messages -> TEMP and Pilot -> TEMP MOBIL A -> Edit

Message Header: UMXX32 KWBC ~SMD2~SMH200\r\n
Automatic message generation: Enabled
Triggers: T, U,& W Sigg ready at 100 hPa level

B) Administration -> Sounding -> Messages -> WMO Messages -> TEMP and Pilot -> TEMP MOBIL B -> Edit

Message Header: UMXX32 KWBC ~SMD2~SMH200\r\n
Automatic message generation: Enabled
Triggers: T, U,& W Sigg ready at 100 hPa level

C) Administration -> Sounding -> Messages -> WMO Messages -> TEMP and Pilot -> TEMP MOBIL C -> Edit

Message Header: UMXX32 KWBC ~SMD2~SMH200\r\n
Automatic message generation: Enabled
Triggers: At the end of ascending sounding

D) Administration -> Sounding -> Messages -> WMO Messages -> TEMP and Pilot -> TEMP MOBIL D -> Edit

Message Header: UMXX32 KWBC ~SMD2~SMH200\r\n
Automatic message generation: Enabled
Triggers: At the end of ascending sounding