

# SWEX Radiosonde specific metadata collection

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## General information

| Campaign name                                                           | SWEX - Sundowner Winds EXperiment                                                                                                        |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Campaign location                                                       | Santa Barbara, CA                                                                                                                        |
| Scheduled campaign dates (IOPs)                                         | 1 April to 15 May 2020                                                                                                                   |
| Expected number of soundings                                            | 100 for ISS, 80 for San Jose State University                                                                                            |
| Names and contacts (email) of PI's                                      | Leila Carvalho, UCSB <leila@eri.ucsb.edu>, Craig Clements, SJSU < <a href="mailto:craig.clements@sjsu.edu">craig.clements@sjsu.edu</a> > |
| Is real time data transmission to GTS requested                         | Not request <b>but</b> EOL will transmit data to GTS                                                                                     |
| Date of data access restriction removal                                 | 1 year embargo until 15 May 2021                                                                                                         |
| Location of local data storage in Boulder after transmission from field | <a href="#">/scr/sci/voemel/data/radiosondes/2020_swex</a> (Holger please confirm)                                                       |
| Data manager point of contact                                           | Linda Echo-Hawk                                                                                                                          |

## Radiosonde campaign specific information

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

| General sounding configuration (excluding site configuration)                                                                | <a href="https://wiki.ucar.edu/download/attachments/326733716/mw41SettingsArchive_2020-02-21T234842.xml?version=1&amp;modificationDate=1582329015575&amp;api=v2">https://wiki.ucar.edu/download/attachments/326733716/mw41SettingsArchive_2020-02-21T234842.xml?version=1&amp;modificationDate=1582329015575&amp;api=v2</a> |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Station name (following the ISF naming convention)                                                                           | <a href="#">SWEX_ISS2</a> , <a href="#">SWEX_ISS3</a> , <a href="#">SWEX_SBFHQ</a> , <a href="#">SWEX_SBF18</a>                                                                                                                                                                                                             |
| WMO station index number                                                                                                     | 0 0                                                                                                                                                                                                                                                                                                                         |
| WMO region number                                                                                                            | North America                                                                                                                                                                                                                                                                                                               |
| Message type                                                                                                                 | Mobile                                                                                                                                                                                                                                                                                                                      |
| Latitude, Longitude (decimal degrees)                                                                                        | Refer to section 3.3 of the <a href="#">Data Management Plan</a>                                                                                                                                                                                                                                                            |
| Altitude (of the ground at the launch site in meters above mean sea level)                                                   | Refer to section 3.3 of the <a href="#">Data Management Plan</a>                                                                                                                                                                                                                                                            |
| Launch site offset                                                                                                           | Refer to section 3.3 of the <a href="#">Data Management Plan</a>                                                                                                                                                                                                                                                            |
| Barometer offset (Reference pressure sensor altitude above ground, must be positive and must be measured after installation) | Refer to section 3.3 of the <a href="#">Data Management Plan</a>                                                                                                                                                                                                                                                            |
| GPS antenna offset (must be positive and must be measured after installation of the Vaisala system GPS antenna)              | Refer to section 3.3 of the <a href="#">Data Management Plan</a>                                                                                                                                                                                                                                                            |
| Header for TEMP messages (must be followed by ~SMD2~SMH200\r\n)                                                              | Not needed                                                                                                                                                                                                                                                                                                                  |
| Header for BUFR messages (must be followed by ~SMD2~SMH200\r\n)                                                              | IUSB2, IUSB3 (for ISS2 and ISS3)<br>IUSB1, IUSB4 (for SJSU)                                                                                                                                                                                                                                                                 |
| Log file template                                                                                                            | <a href="#">issX_sounding_field_log_template.xls</a>                                                                                                                                                                                                                                                                        |

## 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