Survey123/ Field Maps Beta Testing

(January 10-16th)

# Field Maps (FM)

* Why are there 2 sections: Hydrologic Monitoring Field Collection (Field Maps) and Hydrologic Monitoring Field Collection (Survey123)? [#142](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/142)
* Is it possible to unsee Hydrologic Monitoring Field Collection (Survey123) so people don’t select the wrong one?

### ONLINE

* + LAPTOP: NOTE if you download an offline area, FM goes back to offline area even if online, have to go back to get to online area
    - Populated sites within 1 minute
    - Important that staff understand the “Acquiring location” will continue to flash regardless if online or offline- do not need to wait on it to stop [#137](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/137)
    - On laptop, takes about 3 minutes to populate selected survey form “Submit new field visit” in Survey123 via FM

### OFFLINE

* + Important to rename download FM area to something like “Use this when Offline.” It automatically names download Area 1, 2, 3, 3, etc based on how many times you have it downloaded.
  + The downloaded offline area takes about an hour to download
  + The offline area should be downloaded on the first day of each month to update all visit information from previous month’s data collection. [#137](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/137)
  + Unable to use FM to auto navigate to Survey123 [#137](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/137)
    - When clicking “Submit New Field Visit” from FM, the device tries to logon to Enterprise when opening Survey123
  + FM can only be used to see site locations and previously downloaded visits.

### GENERAL NOTES

* No issues with navigation from FM to Survey123 on phone on or offline

# Survey123

### ONLINE

* No comments. Worked well on laptop and phone. Scrolling is harder on laptop with no scroll bar. Some computers (Steve’s) much harder to use apps

### OFFLINE

* + DO NOT USE FM to get to survey offline.
  + Ignore Error Code 3 to return to survey when offline. Survey looking for internet connection.
  + If you turn off computer or restart it, opening Survey123 initially without internet can take a long while. It will load if you ignore error code 3 and you have previously refreshed your inbox with the station list
  + If you open a previously submitted survey to the Outbox, all the values for **Data Logger (Part 1)** and **Data Logger (Part 2)** disappear, all other values are kept. I suspect this is due to the auto clock. Closing and not saving changes keeps the original survey with attachments etc- [#139](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/139)
    - * Fields that disappear after reopening Outbox: Everything under Data Logger (Part 1) and Data Logger (Part 2)- comes up as starting fresh
      * Rainfall, discharge kept as initially entered
      * When changing the Water Level from MP, recalculation is not made in Outbox (do we need a refresh button?)
      * In an open and ongoing survey, new Water Level from MP can be re-entered and a new calculated value will appear
  + Why is **Save as Draft** not available in offline mode [#137](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/137)
  + When submitting survey offline to outbox, pop-up still says online
  + Survey occasionally crashes after submitting survey to Outbox. The submitted survey appears to be saved. You can reopen the app and continue to next station as long as you disregard errors 0 and 3

### GENERAL NOTES

* + On initial screen what does **EGDB** stand for? [#143](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/143)A computer screen with a white screen

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  + Only 1 survey per station per device can be submitted each day. The station disappears from the Inbox list when it has been sent (internet connection) or in Outbox (no internet connection) REFRESH online to get all new survey list for 2nd FV
  + Survey123/ FM uses a lot of battery. Killed Steve’s laptop that was at ~85% to start with. We were at the site for an estimated 45 minutes.

### Inventory

* + Rename **Inventory** “group” to **StationEquipment** – just show the DataLogger and Sensor information in read-only. [#144](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/144)
* Move **Are inventory records correct?** to the bottom of the group (after Datalogger/MP) and change question to "**Changes to Equipment Needed**” 🡪 checkbox “Yes/No” 🡪 Note: Then navigate to the Issues Section and update the inventory (Data Flow needs updated). Remove ‘Done’ checkbox [#141](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/141)
  + Remove **MeasuringPoint**  from **Inventory.**  Make it its own section, located directly before **Groundwater** or **Stage** sections. There is no need to check to make sure the “inventory records are correct” [#145](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/145)

### Location Visit

* + Move **Location Visit** section to top of survey, directly after FLUWID and site photos [#146](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/146)

### Issue

* + Rename **Issues/ Comments** [#147](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/147)
  + Remove questions: [#147](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/147)
    - Is there an issue at the inspection?
    - Can you fix the issue?
    - Instead the “What is the issue” and “Record comment” will show up right away
  + Add to domain list [#140](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/140)
    - Add “Unable to connect”
    - Add “No equipment installed”
    - Modify “Inventory Updated “ to “Changes to equipment”
  + STOPPED HERE

### Data Logger (Part 1)

* Instead of **Data Logger (Part 1),** create 2 separate sections
  + - **Battery** [#148](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/148)
      * Conductivity testing- need to establish what is good vs poor battery condition
    - **Logger Time** [#149](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/149)
      * During Conductivity Testing by Jacob revealed time check for Logger vs laptop not helpful, it only does time and not also date. Most people may just auto populate with the current time for both.
      * Alternative: box for number of minutes adjusted, leave blank if none adjusted?
  + Remove question:
    - **Are you able to connect?/Can you fix this?** [#150](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/150)
  + Under new section **Logger Time**, change Time Adjustment (minutes) allowable to 2 minutes instead of 1 min [#151](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/151)
  + For In-Situ, battery is a percentage. Survey asks for round number ( maybe whole number?) [#152](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/152)

## Rainfall

* No comments

### Groundwater

* Under **Reading** **Type,** remove from domain list [#153](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/153)
  + - **Extreme- Min**
    - **Extreme- Max**
  + Remove question:
    - **Data Logger Available to Measure Real-Time Level Y/N** [#154](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/154)
  + For Test Station 003340, calculated WL had lot of extra zeros, this does not happen at all station [#155](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/155)
  + If within the 0.02ft threshold and **Sensor Adjusted** is **No**, do not show **Reason Not Adjusted** [#156](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/156)
* If logger differs from measurement, the calculation is made but the “Sensor Adjusted” and timestamp of adjustment disappears. See Stage section for photos. [#156](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/156)
  + When you begin with a negative sign, a small error in red says “invalid number” until you finish putting in the full number. Is there a way to remove this? This occurs with Stage as well. Need a number with the “-“ symbol. No way to remove message.
  + Tablet would not let me add negative sign to value- only decimal pt [#157](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/157)
  + For Steel tape, it does not require 2 measurements, can we change this? Instead - Add a note right below the Method question in red if Steel tape is selected, “More than one measurement is needed, record the best measurement. [#158](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/158)
  + When changing Held at and Wet at, a new Water Level from MP is calculated using the refresh button, but calculated water level is not updated. (Couldn’t recreate problem) [#158](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/158)

### Stage

* + Remove question:
    - **Data Logger Available to Measure Real-Time Level Y/N** [#154](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/154)
* Remove question
  + - **Is this Stage used for a discharge?** [#159](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/159)
* If logger differs from measurement, the calculation is made but the “Sensor Adjusted” and timestamp of adjustment disappears [#156](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/156)

A screenshot of a phone

Description automatically generated A screenshot of a login form

Description automatically generated

* + If within the 0.02ft threshold and **Sensor Adjusted** is **No**, do not show **Reason Not Adjusted**
    - When Stage is used for a discharge, **Sensor Adjusted Y/N** and the timestamp for when it occurred disappears once you click on **Calculated Difference,** maybe this will go away if we remove the question **Is this Stage used for a discharge?** [#156](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/156)

## ADVM

* No comments

## Conductivity

* No comments on workflow. Jacob indicated that separate tabs for each section may help will the scrolling

## Temperature

* Under **Reading** **Type,** remove from domain list [#153](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/153)
  + - **Extreme- Min**
    - **Extreme- Max**
* Under **Verification Equipment Serial Number** add to domain list [#160](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/160)
  + - Transducer- NIST unavailable
    - Other (add comment box to type in alternative SN)
  + Change **Sensor Temperature Source**  to **Sensor to Verify**  Leave the choices as is: ADVM, Transducer [#161](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/161)
  + How easy will it be to change domains? We have a whole new set of temperature sensors, they seem to last between 1-2 years. [#132](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/132)
  + Need to verify with leadership how to proceed with 0.5C limits. Unsure whether our current verification meter complies

## Discharge

* If not an ADVM station, remove notes [#162](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/162)
  + - **Set Stage and ADVM to 1 Minute Interval**
    - **Reset Stage and ADVM to Original 15 minute Interval**

### Data Logger (Part 2)

* Rename **Logger File** [#163](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/163)
* Under **Desiccant Enclosure Status** add **NA**  to domain list [#164](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/164)
* Under **Desiccant Transducer Status** add **NA**  to domain list [#164](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/164)

## New Section Order [#165](https://github.com/NWFWMD-IT/Hydrologic-Monitoring-Project/issues/165)

* Location Visit
* Station Equipment
* Issues/ Comments
* Battery
* Logger Time
* MeasuringPoints
* Groundwater
* Stage
* Conductivity
* ADVM
* Temperature
* Discharge
* Logger File