Sensor data and QA/QC

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Questions

1. How do you manage sensor data?
2. How often do you (or anticipate) publishing sensor data?
3. How to deal with versioning data from sensors?

Reporting format tutorials

- Hydrologic monitoring (Amy Goldman)
- Leaf gas exchange (Alistair Rogers and Kim Ely)
- Soil respiration (Ben Bond-Lamberty and Stephanie Pennington)
- Water / Soil / Sediment chemistry data (Kristin Boye)

Review of already existing sensor metadata templates

type	ESS-DIVE Hydrologic monitoring (	FRAMES (https://www.osti.gov/dataexplorer/biblio/dat
contact information		**FIRST_NAME** and **LAST_NAME** as separate columns OR **SENSOR_CONTACT**
contact information		**EMAIL**
contact information		**INSTITUTION** or **SENSOR_INSTITUTION**
Instrument details		**DATA_MEASURE_VARIABLE**
Location	SiteID	**SITE_ID** or **LOCATION_ID**
Location		height or depth OR **MEAS_POS_ID** OR **SENSOR_HE**
Instrument details	**SensorModel**	**SENSOR_MODEL**
Instrument details	StartDateTime_UTC	**START_DATE**

Included all related ESS-DIVE reporting formats, and other metadata templates (e.g., ARM, AmeriFlux)

The sensor metadata fields

WSFA_Sensor_Registration_Template
Contact_Name
Contact_Email
Contact_Affiliation
Variable
Location_ID
Height_or_Depth_From_Ground
Instrument
Start_Date_and_Time
End_Date_and_Time
Comments

Create a **new line** for each:

- New variable OR
- Each new height/depth