

## Pre-Field Phase

### Project Planning and Preparation

Customized DM Support based on Campaign Requirements

Multiple screenshots showing project planning and preparation web interfaces. One interface shows a 'What is the EOL Field Data Archive?' page with a 'Mission Statement' section. Another shows a 'WE-CAN Publications' page with a 'Data Policy' section. A third shows a 'WE-CAN Data Policy' page with a 'Data Policy' section. A fourth shows a 'WE-CAN Data Policy' page with a 'Data Policy' section.

### Data Acquisition

#### Operational Datasets

- Automated/Real-Time Data Ingest from Data Sources
- Integral to Majority of Field Project Archives
- Adds 40 GBytes Monthly to over 25 Unique, Archived Datasets including:
  - NCEP/EMC US Stage IV Precipitation Data and Imagery
  - GTS Radiosondes, Ship, Buoy and Surface Observations
  - MADIS Datasets
  - High Resolution ASOS
  - USPLN and NLDN Lightning
  - AMDAR ACARS Aircraft Data

#### Campaign-Specific Requests

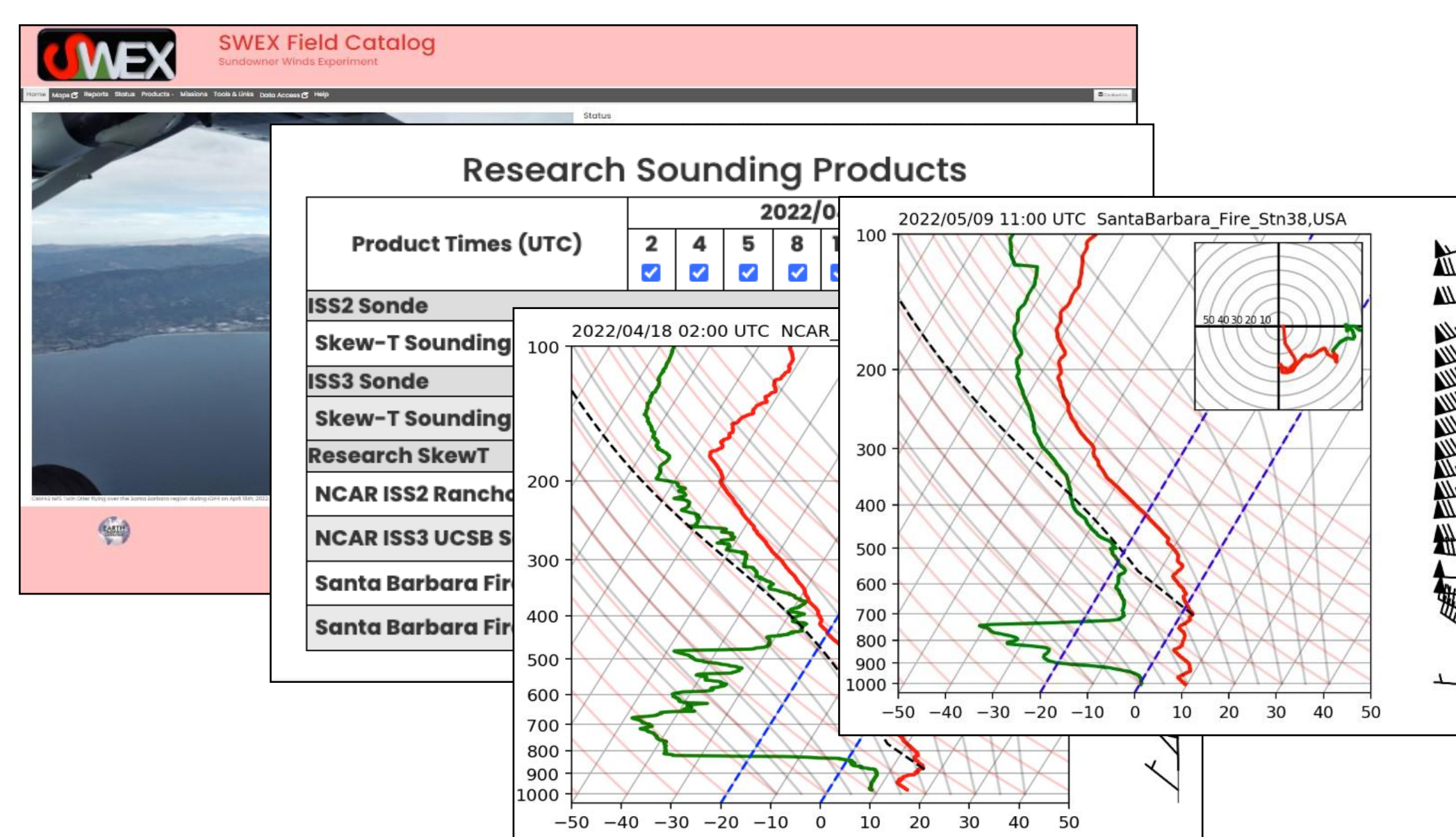
- Example: WINTRE-MIX MRMS 2D, 3DRhoHV, 3DZdr Products

Code snippets showing data acquisition requests. One snippet shows a command to ingest data from a specific source: `ingest file: wintre-mix/mrms/2d/`. Another snippet shows a command to ingest data from a specific source: `ingest file: wintre-mix/mrms/3drhov/`.

## Field Phase

### Project Monitoring & Near-RT Support

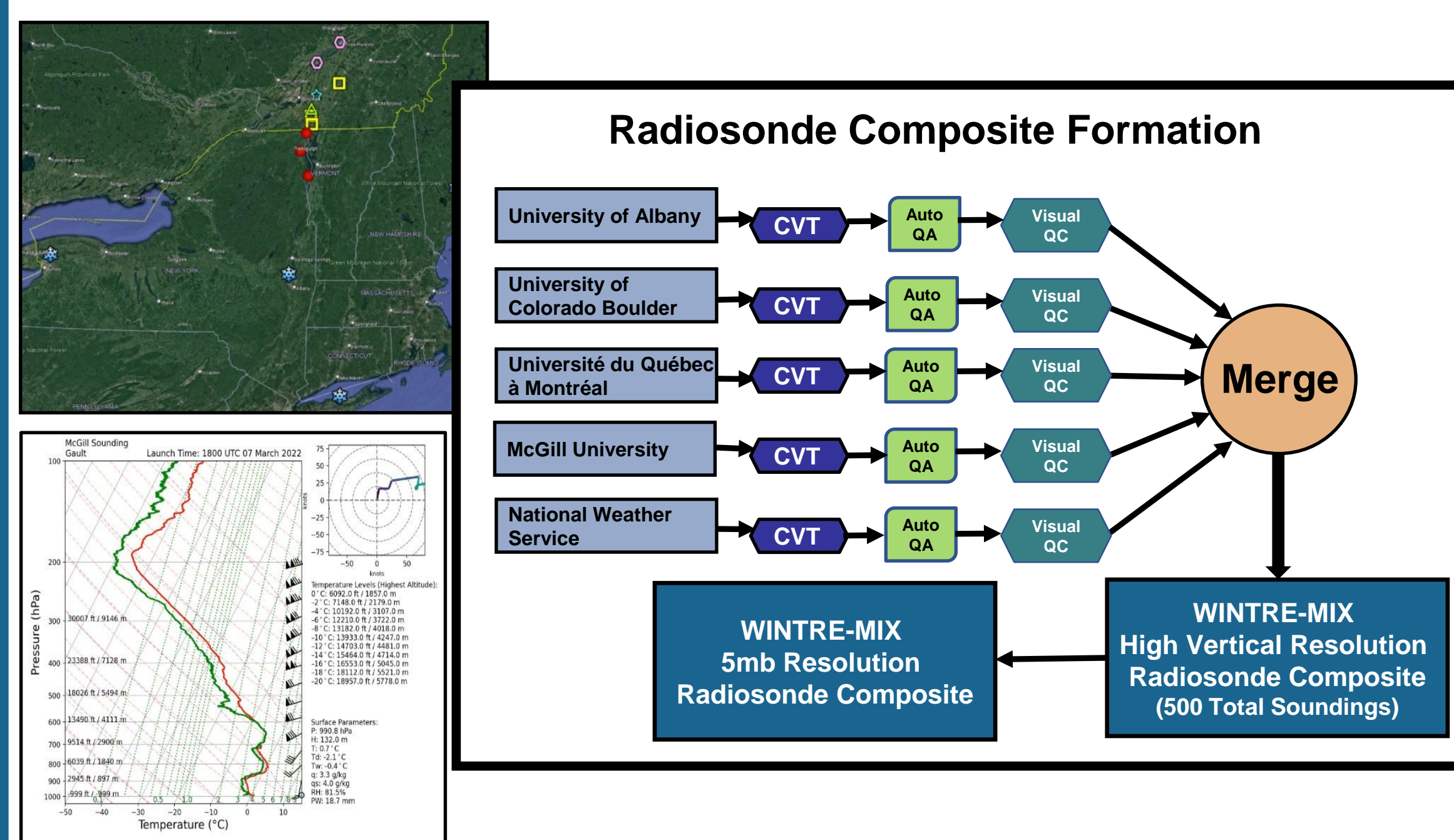
- Continue Pre-Field Phase Tasks
- Develop and Monitor Near-Real Time Sounding Data Processing and Plots for Field Catalog
- Manage and Monitor EOL FTP Space
- Identify Expected Datasets for Archive
- Initiate Tracking and Monitoring Datasets in Dataset Tracking System (DTS)



Near RT Sounding Processing w/ Plot Generation

## Post-Field Phase Data Processing

Sounding Composite - a value added dataset comprised of a collection of sounding data from a variety of sources put into a common format with uniform QA/QC checks.

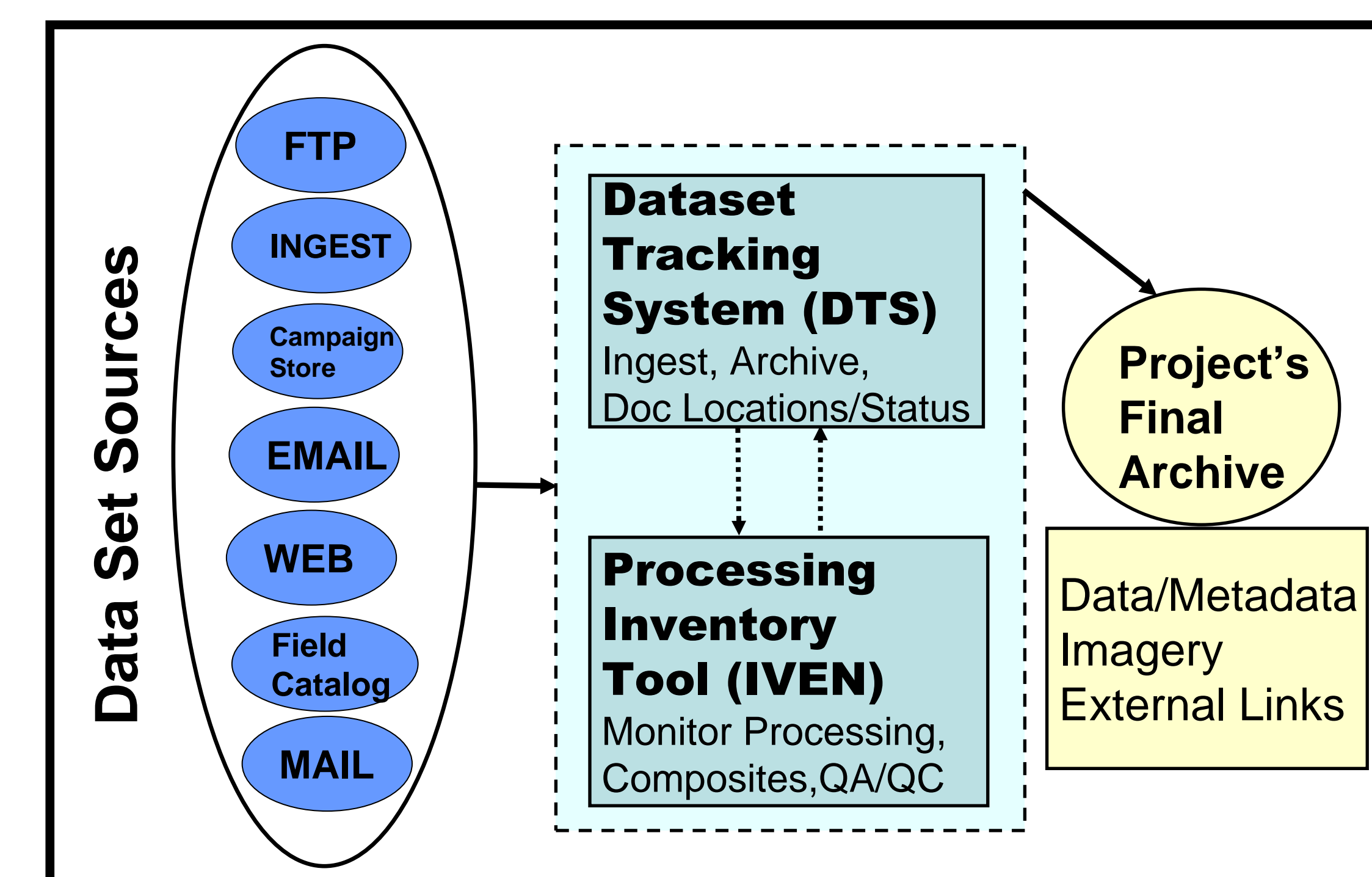


## Post-Field Phase Data Archival

### Long Term Data Stewardship

- Form and Maintain Final Data Archive per Project Data Policy (Months to Years to Complete)
- Track Data, Metadata and Data Processing in Dataset Tracking System to Preserve Dataset Provenance
- Assign and Maintain Dataset DOIs
- Maintain Project's Online presence including forming Publications List

### Data Flow – Ingest to Final Archive



### Dataset Tracking System (DTS)

Screenshots of the Dataset Tracking System (DTS) interface. The interface shows a list of datasets with columns for Name, Type, Status, and Date. It also shows a detailed view of a dataset, including its metadata and processing status.

### Direct Data Access & Plotting Tools

Screenshots of Direct Data Access & Plotting Tools. The interface shows a map of the United States with a selected location. It also shows a plot of atmospheric parameters (e.g., temperature, humidity) vs. altitude for a specific location and time.