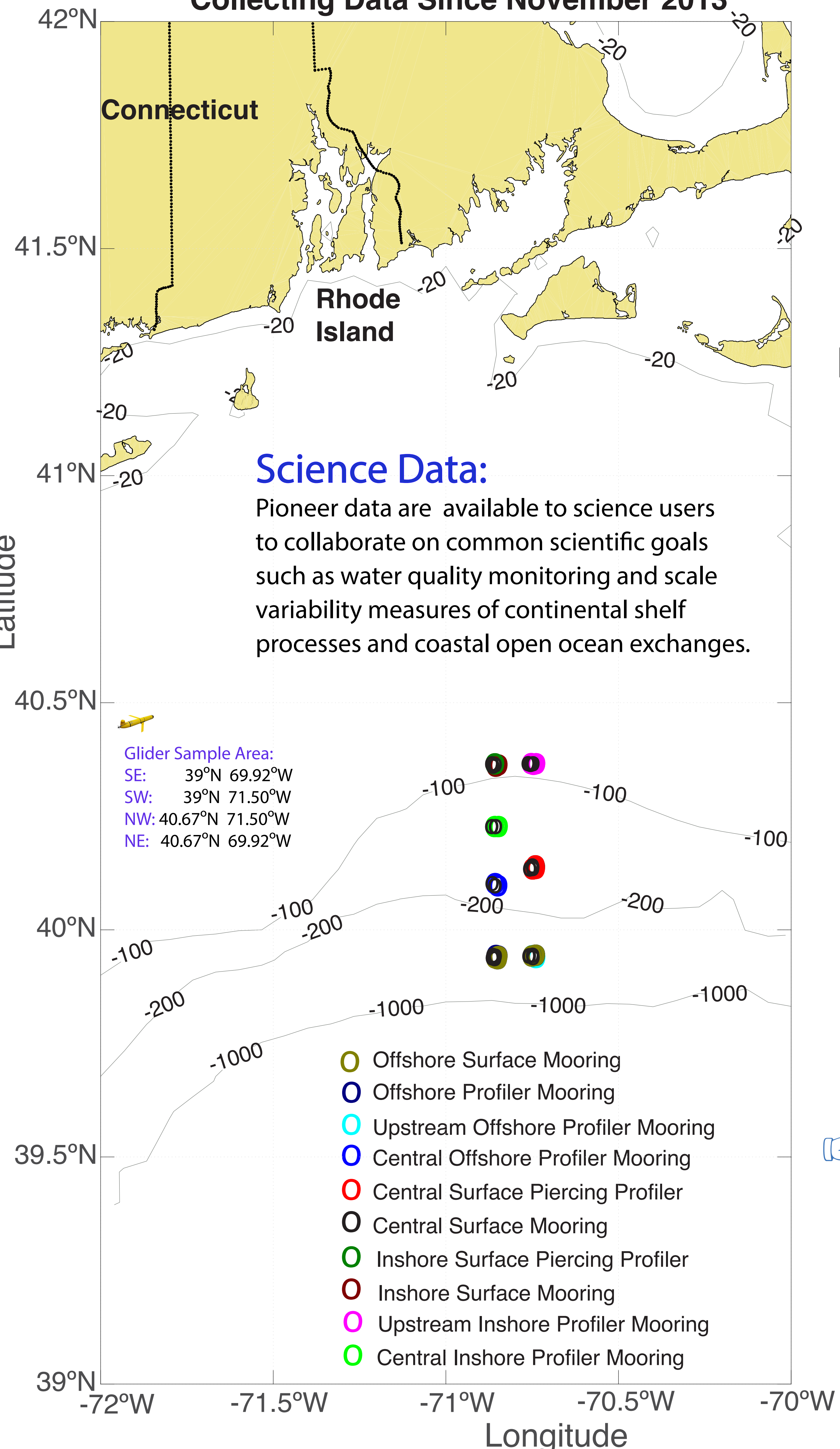


Pioneer Array System Collecting Data Since November 2013



Science Data:
Pioneer data are available to science users to collaborate on common scientific goals such as water quality monitoring and scale variability measures of continental shelf processes and coastal open ocean exchanges.

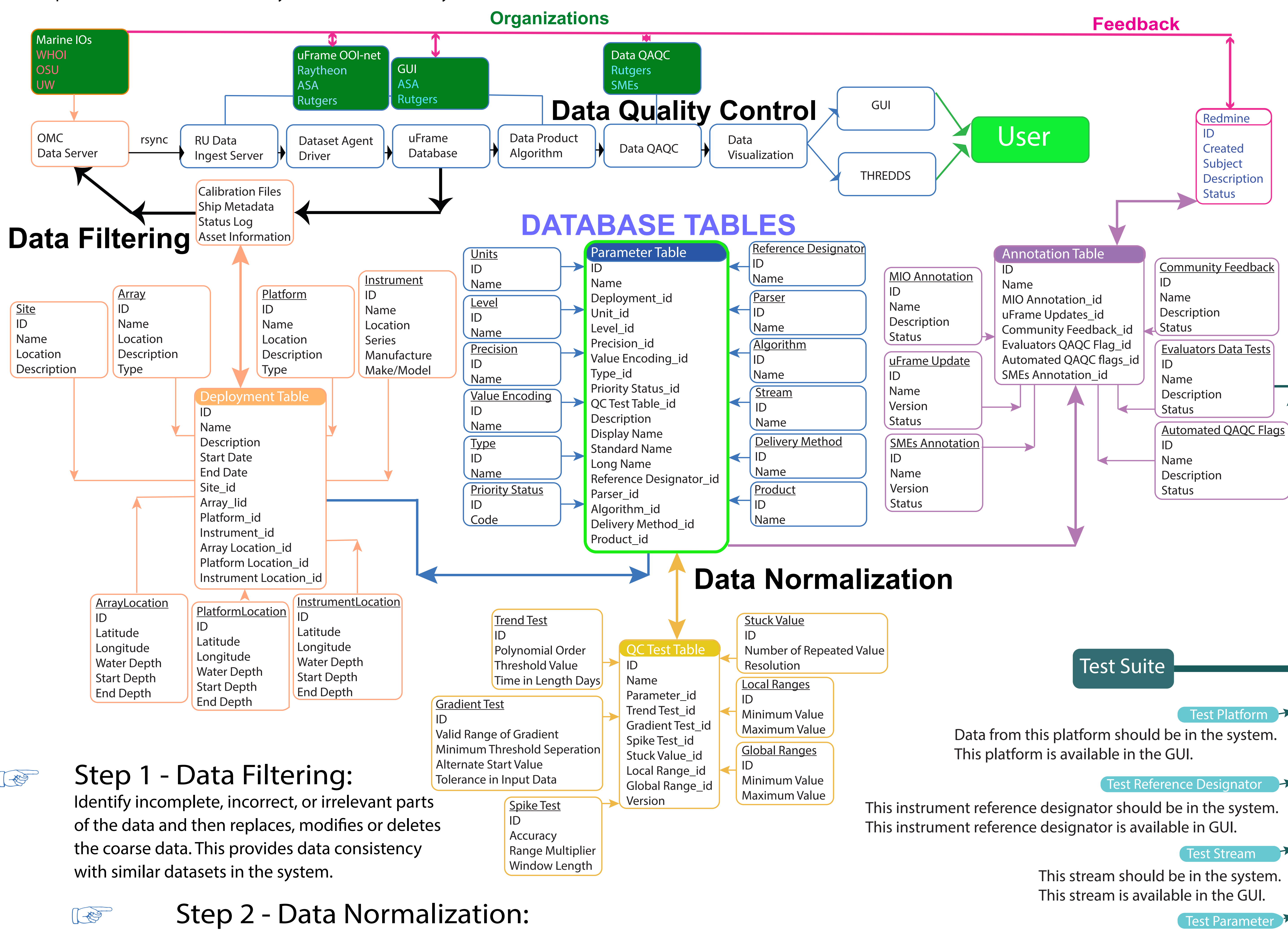
Glider Sample Area:
SE: 39°N 69.92°W
SW: 39°N 71.50°W
NW: 40.67°N 71.50°W
NE: 40.67°N 69.92°W

Pioneer List of Instruments:

PRESF SEAFLOOR PRESSURE	ADCPS ADCPA ADCPT VELOCITY PROFILER SHORT/LONG RANGE	PARAD PHOTOSYNTHETICALLY AVAILABLE RADIATION	CTDGV CTDPF CONDUCTIVITY TEMPERATURE DEPTH
SPKIR SPECTRAL IRRADIANCE	VEL3D 3-D SINGLE POINT VELOCITY METER	OPTAA ABSORPTION SPECTROPHOTOMETER	DOSTA DOFST DISSOLVED OXYGEN STABLE/FAST RESPONSE
FDCHP DIRECT COVARIANCE FLUX	VELPT SINGLE POINT VELOCITY METER	PHSEN SEAWATER PH	FLORT 3-WAVELENGTH FLUOROMETER
PCO2W/A PCO2 WATER/AIR	WAVSS SURFACE WAVE SPECTRA	ZPLSC BIO-ACOUSTIC SONAR	NUTNR NITRATE

End To End System: OOI Cyberinfrastructure

The volume and complexity of OOI data necessitates the development of a systematic diagnostic tool to enable the management of a comprehensive data information system for the OOI arrays.



Step 1 - Data Filtering:
Identify incomplete, incorrect, or irrelevant parts of the data and then replaces, modifies or deletes the coarse data. This provides data consistency with similar datasets in the system.

Step 2 - Data Normalization:
The database is organized in fields and tables to minimize redundancy and dependency. The data are stored in one place to reduce the risk of data inconsistency and promote easy and efficient mapping to the database.

Step 3 - Data Quality Control:
A suite of test cases is used on the database to verify data availability, accessibility and quality. This is done periodically to check the end-to-end system. Tests are applied to arrays, platforms, instruments, and data products.

Test Suite

- Test Platform:** Data from this platform should be in the system. This platform is available in the GUI.
- Test Reference Designator:** This instrument reference designator should be in the system. This instrument reference designator is available in GUI.
- Test Stream:** This stream should be in the system. This stream is available in the GUI.
- Test Parameter:** Data in near real-time for this parameter should be in the system. Historic data for this parameter should be in the system. This parameter is available in the plotting UI drop-down. Data in near real-time for this parameter is plotting with reasonable values. Historic data for this parameter is plotting with reasonable values.