

Current MIO Data and QA/QC Activities

- Asset Management: **CGSN**
 - No significant change in responsibilities, MIOs were primarily responsible for asset management data. Some additional responsibilities surrounding testing and review of asset data (i.e.; calibration data)
 - Using existing resources
 - Collaborating with PMO and MIOs on processes and accuracy
 - Importing of Pioneer 11 (currently at sea) and Southern Ocean 5 (Nov-Dec deployment) asset management data
 - Working on processes for review of all updates, and use of automated tools
 - 4 personnel available to perform asset management (not full FTEs)

Current MIO Data and QA/QC Activities

- Data Ingestion: **CGSN**
 - New responsibility for all MIOs
 - Using pre-existing Data Team scripts to initiate data ingestion.
 - MIOs working together, discussing tools/processes for tracking ingestions, generating metrics
 - Training team in use of scripts; Up to 5 personnel available (not full FTEs) to initiate and monitor ingestions
 - Running test ingestions on various instruments/vehicles

Current MIO Data and QA/QC Activities

- Data Ingestion: **CGSN**
 - Verifying ingestion of prior cruises; working through backlog of incomplete ingestions from OOI 1.0
 - Tracking progress by platform and stream, but need to develop better tracking metrics with MIOs
 - Preparing for ingest of Pioneer 10 recovered data and new Pioneer 11 telemetered data
 - Expect to initiate ingest of new P11 platforms and P10 recovered data post-cruise in early November
 - Working to generate metrics of current status
 - Strategy is to broaden knowledge base amongst team to support ingestion, particularly for recovered data, and to be standard process post-cruise

Current MIO Data and QA/QC Activities

- Data QA/QC: **CGSN**
 - New responsibility for all MIOs
 - Utilizing OMS and OMS++ to monitor arrays on daily basis
 - MIOs using existing scripts to check for gaps in the data and interruptions in data delivery.
 - Working with PMO & MIOs:
 - Reviewing QA/QC practices,
 - Developing common and coherent QA/QC process and structure starting with CTDBP (instrument common to all MIOs).
 - Planning team pre-work activities and potential workshop in January 2019 post-cruise activities.

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 - Planning team pre-work activities and potential workshop in January 2019 post-cruise activities.
 - Significant time and resources will be required

Current MIO Data and QA/QC Activities

- Data QA/QC: **CGSN**
 - Full-time QA/QC hire complete (Andrew Reed), currently part-time, full-time starting Nov. 5th
 - Will be reviewing all annotations and updating as necessary
 - Will be reviewing all open Redmine tickets to address data quality issues identified by the science community
 - Will be reviewing data availability through OOI sites (Data Portal, Raw Data Server, ERDDAP server) and CGSN internal sites (OMS++)
 - Will be developing processes and scripts to improve data quality checking and reporting; significant time and resources will be required

Current MIO Data and QA/QC Activities

- HelpDesk: **CGSN**
 - MIOs supporting PMO, assigning subject matter experts and addressing HelpDesk issues as they are raised
 - Previously MIOs had little insight into the totality of HelpDesk requests. Increased responsibilities under OOI 2.0 on the part of the MIOs and PMO, to:
 1. Receive and categorize HelpDesk tickets,
 2. Distribute to appropriate MIO subject matter experts,
 3. Provide quick initial response to acknowledge receipt and manage any action to close out,
 4. Assess HelpDesk requests to understand any trending in issues.

Current MIO Data and QA/QC Activities

- **Parsers/Processors: CGSN**
 - Currently utilizing existing CI parsers; No new CI parsers required immediately, PCO2A will be required as noted by EA in 2019.
 - UK-funded CUSTARD program adds 2 instruments to the Southern Ocean Surface Mooring. Data will be embargoed for one year; following the embargo CI parsers will be required to support ingestion of the instrument data (PMO) and OMS++ parsers may be required if the CUSTARD deployment continues beyond one year (CGSN).
 - EA and CGSN coordinating OMS++ activities. EA has primarily been developing OMS++ parsers, and CGSN (WHOI-IT) has been providing support to load the parsed data into the OMS++ system.
 - QA/QC process may identify CI parser corrections