



SCS Scientific Computing System
NOAA Office Of Marine and Aviation Operations

Release Notes for SCS 5.1.10

Release Date: August 22, 2025

**Office of Marine and Aviation Operations
Software Engineering Division
SCS Team**

Downloading SCS Documents and Application:
<https://scsshore.noaa.gov/Home/Downloads>

Resolved Issues, Improvements and New Features

Data Submission & Data Disseminator

- Improved the calculation logic for missing package counts on the NCEI page to make these numbers more understandable to users. (Ticket#13573)
- Improved the randomly shutdown issues with Data Disseminator service. (Ticket#16964,17368,11235)

CFE

- Fixed an issue with insufficient caching of derived message definitions in production environments. The solution is to add caching to the data binding of the calculated parameter grid. (Ticket#12697)
- Fixed a bug where disabled items would become re-enabled after being moved to a different location in the tree list. (Ticket #17363)

ACQ

- When a parsing error occurs, the '-1.70xxxx' shows on the pages, it indicated that the corresponding data type 'MinValue' is returned. Now, it assigns a NULL value for display. (Ticket#9849, #10099, #10317)
- Added more code to handle random ACQ crashes caused by polled com sensors, especially when no data is flowing to the sensors. (Ticket#12239)

DISPLAYS and BUILDERS

- Improved the way to handle duplicated template names. (Ticket#7388)
- Resolved the plotting issue with the Post Time Series plots. (Ticket#11498)
- Resolved a negative radius error when trying to add a new radial gauge to a layout. (Ticket#12087)
- Hide the 'Widget Group' option from the Template Editor Lists. (Ticket#16954)

DATABASE

- Added new ship Oceanographer into SCS's database and corrected all faulty ship IMO and MMSI numbers. (Ticket#11030)
- Added a new stored procedure for GIS Trigger status. (Ticket#12363)
- Improved the script to update invalid/illegal latitude and/or longitude. (Ticket#12444)
- Updated the Marine Center for NOAA ship Okeanos Explorer to MOC-PI. (Ticket#12472)
- Fixed the database script 'insert_reference_data.sql' to load data in create_full_scs_database.sql. (Ticket#12684, #12688)
- Fixed the Endurance days for Nancy Foster from 15 to 14 at the SCSshore.noaa.gov. (Ticket#13557)
- RM Yong anemometer device model 86106 added to SCS database. (Ticket#13500)
- Added Seabirds Scattering Fluorescence Sensor (Alternative Label: WET Labs ECO TRIPLET) to the Physical Device inventory. (Ticket#13717)
- Update SDAL database credentials. (Ticket#17080)

EVENT BUILDER and LOGGER

- Fixed – Failed to compile the event data due to NUL values saved into the outputs and those NUL caused failure to retrieve from database (Ticket#11868)
- Fixed – Failed to compile the event data due to a timeout exception caused when retrieving huge size of data from the MySQL database. (Ticket#12261)
- Fixed - Use "Save a Copy" to duplicate a new Event template, the interval rate value lost. Also, we use the Rate =1 sec as default in any outputs. (Ticket#12495)
- Fixed - Meta item properties - Made multiple changes and SAVE; only the last change got caught. (Ticket#17266)