# Centralized Cruise Database - Data Integration SOP

## Overview:

The Centralized Cruise Database (CCD) was developed to manage all operational cruise-level information in the PIFSC enterprise database that other scientific data schemas with cruise-based data collection can reference directly. This document defines the standard operating procedure for integrating the cruise database into a given data set.

## Resources:

* [Centralized Cruise Database - Technical Documentation](Centralized%20Cruise%20Database%20-%20Technical%20Documentation.docx)

## Procedure:

* Grant cruise database permissions to given external data schema
  + Open [grant\_external\_schema\_privs.sql](../SQL/queries/grant_external_schema_privs.sql)
  + Replace [EXTERNAL SCHEMA] placeholder with the scientific schema name (e.g. CEN\_CTD)
  + Execute on the centralize cruise database schema (CEN\_CRUISE)
* Update the scientific data schema objects to reference the cruise database objects
  + Open [integrate\_external\_data\_set.sql](../SQL/queries/integrate_external_data_set.sql)
  + Replace the defined placeholders based on the comments in the SQL file for as many objects that must directly reference the CCD's cruise leg table
* Develop views to pull the cruise database information into the scientific database schema
  + Define views in the given scientific data schema that reference fields from the CEN\_CRUISE views (see CTD\_CAST\_CRUISES\_V in the CEN\_CTD schema)
* Develop queries/stored procedure(s) to update the scientific data to reference the cruise data
  + Utilize the CEN\_CRUISE. LEG\_ALIAS\_TO\_CRUISE\_LEG\_ID package function to set the foreign key value of a given scientific data schema object that references the CEN\_CRUISE.CCD\_CRUISE\_LEGS table.