

Data Acquisition Standard Operating Procedures

Tomoka Marsh Aquatic Preserve Continuous Water Quality Monitoring (ID# 10003)

Last Updated: 5/6/2023

Program Summary

Continuous water quality data are collected at one water quality station (Station ID: TMGR) located within the Tomoka Marsh Aquatic Preserve in 15-minute intervals for eight parameters using protocols established by the National Estuarine Research Reserve's System-Wide Monitoring Program. AP continuous WQ protocols and metadata: <https://www.floridaapdata.org/>

URLs

- Program - <https://www.floridaapdata.org/>
- DDI - <https://data.florida-seacar.org/programs/details/10003>

Contacts

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Data Tables

- Data_10003A_Final
- Data_10003A_Load

Data Stored Procedures

- usp_Data_10003A_Load_insert

Data Acquisition Standard Operating Procedures: ProgramID 10003

Date Created: 09/01/2021

Created By: *Jayden Mohacsi*

Data File Path:

1. Data: \\forest.usf.edu\data\PDive\CAS-WI\Misc Projects\SEACAR_FDEP\Data\ID_10003_Tomoka_Marsh_APCWQ\Incoming

DDI URL: <http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/10003>

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Procedure Overview:

1. Use SQL Server Import Export Wizard to load the file "TMGR_2021.csv" into table **Data_10003A_Load**.
2. Execute procedure usp_Data_10000*_Load_insert to load the data into table **Data_10003A_Final**.
3. Stations pulled from word doc "tmapwq01-03.21m.prov.docx" and put into "Stations.csv"
4. Use SQL Server Import Export Wizard to load the file "Stations.csv" into table **Locations_10003A**.
5. Add the Monitoring Locations from **Locations_10003A** table with [Station_Code] column to the **SampleLocation_Point** table if they do not exist there already.
6. Add new Monitoring Locations into the **SampleLocation** table. This will generate a LocationID for each Monitoring Location.
7. Update the **SampleLocation_Point** table with the LocationID generated in the **SampleLocation** table. Run procedure usp_SampleLocation_Point_update to do this.
8. Update the LocationID column in table **Data_10003A_Final** with the LocationID in the **SampleLocation** table. Join on the [StationCode] column in the Final Data tables and the ProgramLocationID column in **SampleLocation**.

Data Tables

1. Data_10003*_Load
2. Data_10003*_Final

Data Stored Procedures

1. usp_Data_10003*_Load_insert
2. usp_SampleLocation_Point_update

GIS Procedures

1. The Monitoring Location information is found in the table **Locations_10003A**.
2. Complete steps 2 through 6 in the "Procedure Overview" section of this document.

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_Data_10003A_Load_insert]
AS
BEGIN
SET NOCOUNT ON
SET XACT_ABORT ON
```

```
--Data clean up if necessary
```

```
/*
Update Data_10003A_Load
```

```
SET [isSWMP] = NULL
WHERE [isSWMP] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [F_Record] = NULL
WHERE [F_Record] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [cDepth] = NULL
WHERE [cDepth] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [F_CDepth] = NULL
WHERE [F_CDepth] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [Level] = NULL
WHERE [Level] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [F_Level] = NULL
WHERE [F_Level] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [cLevel] = NULL
WHERE [cLevel] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [F_cLevel] = NULL
WHERE [F_cLevel] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [Chl Fluor] = NULL
WHERE [Chl Fluor] = ''
```

```
ÿ
Update Data_10003A_Load
```

```
SET [F_Chl Fluor] = NULL
WHERE [F_Chl Fluor] = ''
```

```
*/
```

```
INSERT INTO Data_10003A_Final (StationCode, isSWMP, DateTimeStamp, Historical, Provisional Plus,
F_Record, Temp, F_Temp, SpCond, F_SpCond, Sal, F_Sal, DO_Pct, F_DO_Pct, DO_mgl, F_DO_mgl, Depth,
F_Depth, cDepth, F_CDepth, [Level], F_Level, cLevel, F_cLevel, pH, F_pH, Turb, F_Turb, Chl Fluor,
F_Chl Fluor)
```

```
SELECT StationCode, isSWMP, DateTimeStamp, Historical, Provisional Plus, F_Record, Temp, F_Temp,
SpCond, F_SpCond, Sal, F_Sal, DO_Pct, F_DO_Pct, DO_mgl, F_DO_mgl, Depth, F_Depth, cDepth, F_CDepth,
[Level], F_Level, cLevel, F_cLevel, pH, F_pH, Turb, F_Turb, Chl Fluor, F_Chl Fluor
FROM Data_10003A_Load
```

```
END
```

```
GO
```