

Data Acquisition Standard Operating Procedures

FWC-FWRI GIS Data Layers (ID# 5059)

Last Updated: 5/6/2023

Program Summary

GIS Data Layers made available by the GIS Librarian of the Florida Fish and Wildlife Conservation Commission, Florida Wildlife Research Institute on the Open Data Portal (geodata.myfwc.com). These are data layers that are not attributable to a specific FWC program other than the GIS Librarian. Data include: Seagrass - compilation of statewide seagrass data from various source agencies and scales ranging in date from 1987 to 2017; Coral - compilation of coral and other hard bottom type data available to FWRI as of July, 2013; Oyster - oyster coverage for available study areas and represents the data available to FWRI as of January, 2019; updated oyster data available November, 2020..

URLs

- Program - <http://geodata.myfwc.com>
- DDI - <https://data.florida-seacar.org/programs/details/5059>

Contacts

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Data Tables

Data Stored Procedures

- usp_combined_acreage_insert_5059I
- usp_combined_coral_insert_5059B
- usp_combined_oyster_insert_5059
- usp_combined_oyster_insert_5059A
- usp_combined_sav_insert_5059C
- usp_combined_sav_insert_5059S

Data Acquisition Standard Operating Procedures: ProgramID 5059

Date Created: 5/20/2019

Created By: *Rich Hammond and Claude Kershaw*

Date Modified: 04/21/2022

Modified By: *Jennifer Baker*

Data File Path: “\\forest.usf.edu\data\PDive\CAS-WI\Misc
Projects\SEACAR_FDEP\Data\ID_5059_Rookery\”

DDI URL: <http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/5059>

Procedure Overview:

1. The Indicator Data for this DataStream is in Spatial format to begin with.
2. The 'Oyster_Beds_in_Florida' shapefile was loaded into the enterprise geodatabase as the feature class 'GIS_5059A' via ArcCatalog.
The 'Coral_and_Hard_Bottom_Habitats_in_Florida' shapefile was loaded into the enterprise geodatabase as the feature class 'GIS_5059B' via ArcCatalog.
The 'Seagrass_habitat_in_Florida' shapefile was loaded into the enterprise geodatabase as the feature class 'GIS_5059C' via ArcCatalog.
3. For additional details please see the GIS Appendix.

Data Tables

1. GIS_5059_CR_INTERSECT
2. GIS_5059_OY_INTERSECT
3. GIS_5059_SV_INTERSECT

Data Stored Procedures

1. None

GIS Appendix:

Oyster, SAV and Coral

- FWC-FWRI GIS Data Layers for Seagrass Habitats, Oyster Beds, and Coral and Hard Bottom
- Create ID_5059.gdb and import the 3 layers
- Clipped to CLIP_MA
 - GIS_5059_Oyster (since layers are dedicated to specific landcover)
 - GIS_5059_SAV
 - GIS_5059_Coral
- Oyster
 - Source of Data: Original data from January 2019. Updated data from November 2020.

- Added LandCoverID (long) =165, LC_Name = Oyster Bar
- Sampledate= SourceDate field is used as the SampleDate when available.
- SourceID=objected
- SourceDate (varchar 25) kept for those compilation layers that have a date of the source information available
- Intersected with ORCP_Managed_Areas: GIS_5059_Oyster_Nov2020_intersect1
 - Populate fields: UniqueID (GIS_5059_OY-ObjectID) (using Arcade code: Concatenate("GIS_5059_OY-" + \$feature.OBJECTID_1)). Hectares = !Shape_Area! * 0.0001
 - Dissolve to GIS_5059_Oyster_Nov2020_intersect
- 2019 data: GIS_5059_Oyster_Dec2019 and GIS_5059_Oyster_Dec2019_Intersect (table)
- 2020 data: GIS_5059_Oyster_Nov2020 and GIS_5059_Oyster_Nov2020_Intersect (table)
- Include "Oyster" field as QAQCFlag
- Oyster Beds in Florida Layer is source of reef polygons used for the UniversalReefID that is added to the data. Final GIS layer is called: GIS_5059_OY
 - UniversalReefID is added as a text field, so that the reef ID added to the data is distinct depending on whether the source is the oyster bed layer (is within 10 meters) or if it defaults to the program location id.
 - UniversalReefID = Concatenate("OBIFL-" + \$feature.OBJECTID_1) in the Oyster Beds in Florida layer
-
- SAV
 - SourceDate field is used as the SampleDate when available. Sourcedate unknown or "2004-2015" is recorded as 12/4/2017 because this is date of the compilation.
 - LandCoverID= 273 and 275
 - SourceDate (varchar 25) is kept for those compilation layers that have a date of the source information available
 - SEAGRASS LandCoverID LC_Name
 - Continuous 273 Continuous seagrass
 - Discontinuous 275 Patchy seagrass
 - Intersected with ORCP_Managed_Areas: GIS_5059_SV_Intersect1
 - Dissolved on fields to match previous GIS_5059_SV_Intersect
 - Calculated UniqueID and Hectares
 - Concatenate("GIS_5059_SV-" +
 - GIS_5059_SV and GIS_5059_SV_Intersect
- Coral
 - Select Descript="Coral Reef" and LandCoverID=276, LC_Name=Coral
 - Hardbottom not included
 - SourceDate field is used as the SampleDate when available.
 - SourceDate (varchar 25) is kept for those compilation layers that have a date of the source information available
 - Concatenate("GIS_5059_Coral-" +
 - GIS_5059_Coral and GIS_5059_Coral_Intersect

GIS_5059_SV, GIS_5059_SV_Intersect; updated 21oct21 for nature coast boundary

GIS_5059_CR, GIS_5059_CR_Intersect; Done

GIS_5059_OY, GIS_5059_OY_Intersect; updated 21oct21 for nature coast boundary

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [Legacy].[usp_combined_coral_insert_5059B]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059B';
DECLARE @combinedTable varchar(50) = 'Combined_CORAL'
DECLARE @parameterID int = 45

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Insert data
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, SampleDate, SpeciesID,
SamplingMethod, QuadSize_m, ResultValue, Description, DateAdded, QAQCFI_ag)
SELECT @programID, @dataStreamID, @parameterID, b.LocationID, RIGHT(a.SOURCEDATE, 4)+'1231', NULL,
NULL, NULL, CAST(CAST((Acreage/2.471) as numeric(15,5)) as varchar), NULL, GETDATE(), NULL
FROM GIS_5059Ba
INNER JOIN SampleLocation b on a.UniqueID = b.ProgramLocationID
WHERE b.ProgramID = 5059
AND a.SOURCEDATE <> '' and a.SOURCEDATE not like '%70%'s%'
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_CORAL

SELECT *
FROM Combined_Data_Tracking

SELECT *
FROM GIS_5059B

SELECT *
FROM Combined_Parameters

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 4000
*/

END

GO

```

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_acreage_insert_5059I]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059I';
DECLARE @combinedTable varchar(50) = 'Combined_Acreage'
DECLARE @parameterID int

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Delete Existing Data
exec usp_delete_combined @dataStreamID, @combinedTable

-- Insert coral data
SET @parameterID = 45 --Hectares

-- Insert data
INSERT INTO Combined_Acreage (ProgramID, DataStreamID, ParameterID, LandCoverID, AreaID, GISSourceID,
SampleDate, [Year], SourceDate, ResultValue, MADup)
SELECT @programID, @dataStreamID, @parameterID, a.LandCoverID, a.MA_AreaID, a.SourceID,
a.SampleDate, YEAR(a.SampleDate), a.SourceDate, a.Hectares, NULL
FROM GIS_5059_CR_INTERSECTa
WHERE a.MA_AreaID <> 9999
AND a.MA_AreaID <> 0
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

ÿ
-- Insert oyster data
SET @parameterID = 37 --Hectares

-- Insert data
INSERT INTO Combined_Acreage (ProgramID, DataStreamID, ParameterID, LandCoverID, AreaID, GISSourceID,
SampleDate, [Year], SourceDate, ResultValue, MADup)
SELECT @programID, @dataStreamID, @parameterID, a.LandCoverID, a.MA_AreaID, a.SourceID,
a.SampleDate, YEAR(a.SampleDate), a.SOURCE_DATE, a.Hectares, NULL
FROM GIS_5059_OY_INTERSECTa
WHERE a.MA_AreaID <> 9999
AND a.MA_AreaID <> 0
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

-- Insert sav data
SET @parameterID = 25 --Hectares

-- Insert data
INSERT INTO Combined_Acreage (ProgramID, DataStreamID, ParameterID, LandCoverID, AreaID, GISSourceID,
SampleDate, [Year], SourceDate, ResultValue, MADup)

```

```
SELECT @programID, @dataStreamID, @parameterID, a.LandCoverID, a.MA_AreaID, a.SourceID,
a.SampleDate, YEAR(a.SampleDate), a.SOURCE_DATE, a.Hectares, NULL
FROM GIS_5059_SV_INTERSECTa
WHERE a.MA_AreaID <> 9999
AND a.MA_AreaID <> 0
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy
```

```
/*
SELECT *
FROM Combined_CORAL
```

```
SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, NumRowsCombined
FROM Combined_Data_Tracking a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
INNER JOIN Combined_Parameters c on a.ParameterID = c.ParameterID
WHERE b.Habitat = 'Coral/Coral Reef'
```

```
SELECT *
FROM GIS_5059_CR_INTERSECT
```

```
ÿ
SELECT *
FROM GIS_5059_OY_INTERSECT
```

```
ÿ
SELECT *
FROM GIS_5059_SV_INTERSECT
```

```
SELECT *
FROM Combined_Parameters a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
where b.Habitat = 'coral/coral reef'
```

```
SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 5059
```

```
SELECT *
FROM ref_species
where habitat = 'coral/coral reef'
```

```
exec [usp_delete_combined] 1298, 'Combined_CORAL'
*/
```

END

GO

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_coral_insert_5059B]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059B';
DECLARE @combinedTable varchar(50) = 'Combined_CORAL'
DECLARE @parameterID int = 45

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Insert data
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, SampleDate, SpeciesID,
SamplingMethod, QuadSize_m, ResultValue, Description, DateAdded, QAQCFI_ag)
SELECT @programID, @dataStreamID, @parameterID, b.LocationID, RIGHT(a.SOURCEDATE, 4)+'1231', NULL,
NULL, NULL, CAST(CAST((Acreage/2.471) as numeric(15,5)) as varchar), NULL, GETDATE(), NULL
FROM GIS_5059Ba
INNER JOIN SampleLocation b on a.UniqueID = b.ProgramLocationID
WHERE b.ProgramID = 5059
AND a.SOURCEDATE <> '' and a.SOURCEDATE not like '%70%'s%'
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_CORAL

SELECT *
FROM Combined_Data_Tracking

SELECT *
FROM GIS_5059B

SELECT *
FROM Combined_Parameters

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 4000
*/

END

GO

```



```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_oyster_insert_5059]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- Delete Existing Data
exec usp_delete_combined 1294, 'Combined_OYSTER'

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059I';
DECLARE @combinedTable varchar(50) = 'Combined_OYSTER'
DECLARE @parameterID int = 37

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Insert data
INSERT INTO Combined_OYSTER (ProgramID, DataStreamID, ParameterID, LocationID, SampleDate,
SurveyMethod, PercentLiveMethod, HabitatClassification, QuadSize_m2, ResultValue, DateAdded, QAQC
AreaID, GISUniqueID, GISSourceID, LandCoverID)
SELECT @programID, @dataStreamID, @parameterID, NULL, a.SampleDate, 'Aerial Mapping', NULL, NULL,
NULL, a.Hectares, GETDATE(), NULL, a.MA_AreaID, a.UniqueID, a.SourceID, LandCoverID
FROM GIS_5059_OY_Intersecta
WHERE a.MA_AreaID <> 9999

exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_OYSTER
WHERE ProgramID = 5059

SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, a.NumRowsCombined
FROM Combined_Data_Tracking a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
INNER JOIN Combined_Parameters c on a.ParameterID = c.ParameterID
WHERE b.Habitat = 'Oyster/Oyster Reef'

SELECT *
FROM GIS_5059_OYSTER_INTERSECT_28OCT20

SELECT *
FROM Combined_Parameters a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
where b.Habitat = 'oyster/oyster reef'

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 5059

exec usp_delete_combined 1294, 'Combined_OYSTER'
*/

```

END

GO

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_oyster_insert_5059A]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059A';
DECLARE @combinedTable varchar(50) = 'Combined_OYSTER'

DECLARE @parameterID int = 37 -- Oyster Acreage

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Insert data
INSERT INTO Combined_OYSTER (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, SamplingMethod, QuadSize_m2, ResultValue, DateAdded, QAQCFlag)
SELECT @programID, @dataStreamID, @parameterID, b.LocationID, RIGHT(SOURCEDATE, 4) + '1231', NULL,
1, Acreage/2.471, GETDATE(), NULL
FROM GIS_5059Aa
INNER JOIN SampleLocation b on a.UniqueID = b.ProgramLocationID AND b.ProgramID = @programID
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_OYSTER

SELECT *
FROM Combined_Data_Tracking

SELECT *
FROM GIS_5059A

SELECT *
FROM Combined_Parameters

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 4016
*/

END

```

GO

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_sav_insert_5059C]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

--** The upper bound of the year SOURCEDATE was used as the date. December 31st was used at
-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059C';
DECLARE @combinedTable varchar(50) = 'Combined_SAV'
DECLARE @parameterID int = 25

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Insert data
INSERT INTO Combined_SAV(ProgramID, DataStreamID, ParameterID, LocationID, SampleDate, SpeciesID,
SamplingMethod, QuadSize_m2, ResultValue, Depth_M, Description, DateAdded, QAQCFlag)
SELECT @programID, @dataStreamID, @parameterID, b.LocationID, RIGHT(a.SOURCEDATE, 4) + '-12-31',
NULL, NULL, NULL, CAST(CAST((SHAPEarea/2.471) as numeric(15,5)) as varchar), NULL, a.DESCRIPT,
GETDATE(), NULL
FROM GIS_5059C_INTERSECTMAa
INNER JOIN SampleLocation b on a.UniqueID = b.ProgramLocationID AND b.ProgramID = 5059
WHERE a.SOURCEDATE not like '%unknown%'

exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_SAV

SELECT *
FROM Combined_Data_Tracking

SELECT *
FROM GIS_5059C

SELECT *
FROM Combined_Parameters a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 5059
*/

END

GO

```

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_sav_insert_5059S]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- Delete Existing Data
exec usp_delete_combined 1307, 'Combined_SAV'

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5059I';
DECLARE @combinedTable varchar(50) = 'Combined_SAV'
DECLARE @parameterID int

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
ÿ
-- Insert data
SET @parameterID = 25

INSERT INTO Combined_SAV (ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleDate,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod1, SamplingMethod2, ReportingLevel, QuadSize,
Grid, ResultValue, Depth_M, Description, DateAdded, QAQCFlag, AreaID, GISSourceID, LandCoverID)
SELECT @programID, @dataStreamID, @parameterID, NULL, UniqueID, a.SampleDate, NULL, 'Seagrass',
NULL, NULL, NULL, NULL, NULL, a.Hectares, NULL, NULL, GETDATE(), NULL, a.MA_AreaID, SourceID,
LandCoverID
FROM GIS_5059_SV_Intersecta
WHERE a.MA_AreaID <> 9999

exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_SAV

SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, NumRowsCombined
FROM Combined_Data_Tracking a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
INNER JOIN Combined_Parameters c on a.ParameterID = c.ParameterID
WHERE b.Habitat = 'Submerged Aquatic Vegetation'

SELECT *
FROM GIS_5059_SAV_INTERSECT_28OCT20

SELECT *
FROM Combined_Parameters a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
where b.Habitat = 'Submerged Aquatic Vegetation'

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 5059

SELECT *

```

```
FROM ref_species
where habitat = 'Submerged Aquatic Vegetation'
and scientificname like '%calcer%'
```

```
exec usp_delete_combined 1307, 'Combined_SAV'
*/
```

```
END
```

```
GO
```