

Data Acquisition Standard Operating Procedures

Palm Beach County Artificial and Natural Reef Monitoring Program (ID# 3024)

Last Updated: 5/6/2023

Program Summary

The Palm Beach County Reef Research Team (RRT) performed 22 monitoring and mapping dives on 17 artificial and 4 natural reefs for the monitoring period of January 20, 2017 to February 17, 2018, to complete the requirements of Florida Fish & Wildlife Conservation Commission Grant #16144 in cooperation with Palm Beach County Department of Environmental Resources Management (ERM). The objectives of this project were to: 1. Assess and compare fish and benthic assemblages on artificial reefs of differing structural makeup to adjacent natural reefs; and 2. Assess and compare fish and benthic assemblages on artificial reefs consisting of different structural materials, depths, and ages.

URLs

- Program - <http://discover.pbcgov.org/erm/Pages/default.aspx>
- DDI - <https://data.florida-seacar.org/programs/details/3024>

Contacts

Contact Name	Organization	Email	Phone
Jena McNeal	Environmental Analyst - Artificial Reef Corrdinator	JMcNeal@pbcgov.org	561-233-2513

Data Tables

- Data_3024A_Final
- Data_3024A_Load
- Data_3024B_Final
- Data_3024B_Load
- Data_3024C_Final
- Data_3024C_Load
- Data_3024D_Final
- Data_3024D_Load
- Data_3024E_Load
- Data_3024F_Load
- Data_3024G_Load

Data Stored Procedures

- usp_Data_3024A_Load_insert
- usp_combined_coral_insert_3024A
- usp_combined_coral_insert_3024B
- usp_combined_coral_insert_3024C
- usp_combined_coral_insert_3024D
- usp_combined_nekton_insert_3024C
- usp_combined_nekton_insert_3024D

Data Acquisition Standard Operating Procedures: ProgramID 3024

Date Created: 03/18/2019

Created By: *Claude Kershaw*

Data File Paths:

1. Data: "\\forest.usf.edu\data\PDive\CAS-WI\Misc Projects\SEACAR_FDEP\Data\ID_3024_Nearshore_Hardbottom\DataToLoad\PBC_REEF_DATA\DATABASE_2013.mdb"

DDI URL: <http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/3024>

Contact Information:

Contact Name: Jena McNeal

Contact Organization: Program - Nearshore Hardbottom

Contact Email: JMcNeal@pbcgov.org

Contact Phone: 561-233-2513

Procedure Overview:

1. Use SQL Server Import Export Wizard to load data for table "BENTHICS_DATA" into **Data_3024A_Load**, and "BENTHICS_DATA_NEW" into **Data_3024B_Load**.
2. Use SQL Server Import Export Wizard to load data for table "FISH_POINTCOUNT_DATA" into **Data_3024C_Load**, and "FISH_ROVE_BELT_COUNT_DATA" into **Data_3024D_Load**.
3. Use SQL Server Import Export Wizard to load data for table "TAXONOMIC_LIST" into **Data_3024E_Load**.
4. Use SQL Server Import Export Wizard to load data for table "TAXONOMIC_LIST" into **Data_3024E_Load**.
5. Use SQL Server Import Export Wizard to load data for table "tblCode_COVER_CODE" into **Data_3024F_Load**.
6. Use SQL Server Import Export Wizard to load data for table "SURVEY_DATA" into **Data_3024G_Load**
7. **Data_3024*_Final**. Exclude tables **Data_3024E_Load** and **Data_3024F_Load** from this, all other load tables need to be joined with **Data_3024E_Load** on the column [TAXON_SEQ] to add species information before loading to Final data tables. In addition, table **Data_3024B_Load** should be joined to table **Data_3024F_Load** on [COVER_CODE] to add coverage information before loading to final data table.
8. The Monitoring Location information can be found in the "SURVEY_DATA" and "SITE_INFO" tables. Load these tables into data tables **Locations_3024A** and **Locations_3024B** respectively.
9. Join load tables **A through D** to table **Locations_3024A** on [SURVEY_SEQ] and then join to **Locations_3024B** on [SITE_SEQ] to get location information before loading to the Final data tables.

10. Update table **Locations_3024B** to add a new column and convert current decimal minutes to decimal degrees.
11. Execute procedures `usp_Data_3024*_Load_insert` to load the data into tables
12. Add new Monitoring Locations into the **SampleLocation_Point** table.
13. Add new Monitoring Locations into the **SampleLocation** table. This will generate a LocationID for each Monitoring Location.
14. Update the **SampleLocation_Point** table with the LocationID generated in the **SampleLocation** table. Run procedure `usp_SampleLocation_Point_update` to do this.
15. Update the LocationID column in table **Data_3024*_Final** with the LocationID in the **SampleLocation** table. Join on the [SITE_SEQ] column in **Data_3024*_Final** and the ProgramLocationID column in **SampleLocation**.

Data Tables

1. Data_3024*_Load
2. Data_3024*_Final

Data Stored Procedures

1. `usp_Data_3024*_Load_insert`
2. `usp_SampleLocation_Point_update`

GIS Procedures

1. The Monitoring Location information can be found in the "SITE_INFO" tables in the Access Database.
2. Complete steps 7 through 14 in the "Procedure Overview" section of this document.

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_coral_insert_3024A]
```

```
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;
```

```
/*
SPECIES LUT is in SPECIES_3024
```

```
SELECT a.LocationID, a.PCT_COVER as ResultValue, c.INSPECTION_DATE, d.SpeciesId,
COALESCE(d.Group1,b.GroupName) as [Group1], d.Group2
FROM Data_3024A_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
LEFT JOIN ref_species d
on b.SpeciesId = d.SpeciesID
```

```
*/
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @dataLoadCode varchar(10) = '3024A';
DECLARE @combinedTable varchar(50) = 'Combined_CORAL'
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 = 43 -- Percent Cover - Species Composition
```

```
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleDate,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
```

```
SELECT @programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE, a.SpeciesID,
a.Group1, a.Group2, 'Area Video', NULL, NULL, a.ResultValue, NULL, GETDATE(), NULL
```

```
FROM (
SELECT a.LocationID, a.PCT_COVER as ResultValue, c.INSPECTION_DATE, d.SpeciesId, d.Group1, d.Group2
FROM Data_3024A_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
```

```

AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
onb.SpeciesId = d.SpeciesId
) a
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy

-- Insert data

SET @parameterID = 47 --Presence
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleID,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
SELECT@programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video' , NULL, NULL, CASE WHEN a.ResultValue> 0 THEN 'Y' ELSE
END, NULL, GETDATE(), NULL
FROM (
SELECT a.LocationID, a.PCT_COVER as ResultValue, c.INSPECTION_DATE, d.SpeciesId, d.Group1, d.Group2
FROM Data_3024A_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
onb.SpeciesId = d.SpeciesId
) a
WHERE a.Group1 like '%Reef%'

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

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/*

delete from Combined_CORAL
where programId = 3024

delete from Combined_Data_Tracking where programId = 3024

SELECT *
FROM Combined_CORAL

SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, a.NumRowsCombined, a.LastUpdateDate
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 Data_3024A_Final
```

```
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 = 3024
```

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

```
exec [usp_delete_combined] 228, 'Combined_CORAL'
```

```
SELECT distinct ResultValue  
FROM Combined_Coral  
where parameterid = 47  
*/
```

```
END
```

```
GO
```

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_coral_insert_3024B]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;
```

```
/*
SPECIES LUT is in SPECIES_3024
```

```
SELECT a.LocationID, a.COVER_RANGE as ResultValue, c.INSPECTION_DATE, d.SpeciesId,
COALESCE(d.Group1,b.GroupName) as [Group1], d.Group2
FROM Data_3024B_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
LEFT JOIN ref_species d
on b.SpeciesId = d.SpeciesId
```

```
*/
```

```
-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '3024B';
DECLARE @combinedTable varchar(50) = 'Combined_CORAL'
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 = 43 -- Percent Cover - Species Composition
```

```
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleID,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
```

```
SELECT @programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video' , NULL, NULL, a.ResultValue, NULL, GETDATE(), NULL
FROM (
SELECT a.LocationID, a.COVER_RANGE as ResultValue, c.INSPECTION_DATE, d.SpeciesId,
COALESCE(d.Group1,b.GroupName) as [Group1], d.Group2
FROM Data_3024B_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
```

```

AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
onb.SpeciesId = d.SpeciesId
) a
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy
ÿ
-- Insert data
-- PRESENCE CANNOT BE DETERMINED FROM PERCENT COVER RANGE
--SET @parameterID = 47 --Presence
--INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID,
SampleDate, SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2,
ResultValue, Description, DateAdded, QAQCFlag)
--SELECT@programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video' , NULL, NULL, CASE WHEN a.ResultValue> 0 THEN 'Y' ELSE
END, NULL, GETDATE(), NULL
--FROM (
--SELECT a.LocationID, a.COVER_RANGE as ResultValue, c.INSPECTION_DATE, d.SpeciesId,
COALESCE(d.Group1,b.GroupName) as [Group1], d.Group2
--FROM Data_3024B_Final a
--JOIN Species_3024 b
--on (a.TAXON_TYPE = b.Taxon_type)
--AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
--AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
--AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
--AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
--AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
--AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
--AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
--JOIN Data_3024G_Load c
--on c.SURVEY_SEQ = a.SURVEY_SEQ
--LEFT JOIN ref_species d
--onb.SpeciesId = d.SpeciesId
--) a
--WHERE a.Group1 like '%Reef%'
--exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT,
@LastUpdateBy = @runBy
ÿ
ÿ
/*
delete from Combined_CORAL
where programId = 3024
delete from Combined_Data_Tracking where programId = 3024
SELECT *
FROM Combined_CORAL
SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, a.NumRowsCombined, a.LastUpdateDate
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 Data_3024B_Final
```

```
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 = 3024
```

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

```
exec [usp_delete_combined] 229, 'Combined_CORAL'
```

```
SELECT distinct ResultValue
FROM Combined_Coral
where parameterid = 47
*/
```

```
END
```

```
GO
```

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_coral_insert_3024C]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;
```

```
/*
SPECIES LUT is in SPECIES_3024
```

```
SELECT a.LocationID, a.COVER_RANGE as ResultValue, c.INSPECTION_DATE, d.SpeciesId,
COALESCE(d.Group1,b.GroupName) as [Group1], d.Group2
FROM Data_3024C_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
LEFT JOIN ref_species d
on b.SpeciesId = d.SpeciesId
```

```
*/
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @dataLoadCode varchar(10) = '3024C';
DECLARE @combinedTable varchar(50) = 'Combined_CORAL'
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 = 46 -- Count - Grazers and Reef Dependent Species
```

```
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleDate,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
SELECT @programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video' , NULL, NULL, a.ResultValue, NULL, GETDATE(), NULL
FROM (
SELECT a.LocationID, a.FISH_COUNT as ResultValue, c.INSPECTION_DATE, x.SpeciesId, d.Group1, d.Group2
FROM Data_3024C_Final a
JOIN ref_conversion_species x
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
and x.DataStreamID = @dataStreamID
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
```

```

onx.SpeciesID = d.SpeciesID
) a
WHERE a.ResultValue is not null

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

ÿ
-- Insert data
SET @parameterID = 47 -- Presence - Grazers and Reef Dependent Species

INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleDate,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
SELECT@programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video' , NULL, NULL, CASE WHEN a.ResultValue =1 THEN 'Y' ELSE 'N' END,
NULL, GETDATE(), NULL
FROM (
SELECT a.LocationID, a.PRESENCE_ABSENCE as ResultValue, c.INSPECTION_DATE, x.SpeciesID, d.Group1,
d.Group2
FROM Data_3024C_Final a
JOIN ref_conversion_species x
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
and x.DataStreamID = @dataStreamID
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
onx.SpeciesID = d.SpeciesID
) a
WHERE a.ResultValue IS NOT NULL

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

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/*

delete from Combined_CORAL
where programId = 3024

delete from Combined_Data_Tracking where programId = 3024

SELECT *
FROM Combined_CORAL

SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, a.NumRowsCombined, a.LastUpdateDate
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 Data_3024C_Final

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 = 3024
```

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

```
exec [usp_delete_combined] 230, 'Combined_CORAL'
```

```
SELECT distinct ResultValue  
FROM Combined_Coral  
where parameterid = 47  
*/
```

```
END
```

```
GO
```

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_coral_insert_3024D]
```

```
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;
```

```
/*
SPECIES LUT is in SPECIES_3024
```

```
SELECT a.LocationID, a.Fish_COUNT as ResultValue, c.INSPECTION_DATE, d.SpeciesId,
COALESCE(d.Group1,b.GroupName) as [Group1], d.Group2
FROM Data_3024D_Final a
JOIN Species_3024 b
on (a.TAXON_TYPE = b.Taxon_type)
AND ( (a.PHYLA is null and b.PHYLA is NULL)OR a.PHYLA = b.PHYLA)
AND ( (a.CLASS_ORDER is NULL AND b.Class_Order is null)OR (a.CLASS_ORDER = b.CLASS_ORDER))
AND ( (a.FAMILY is NULL AND b.FAMILY is null)OR (a.FAMILY = b.FAMILY))
AND ( (a.LATIN_FAMILY is NULL AND b.LATIN_FAMILY is null)OR (a.LATIN_FAMILY = b.LATIN_FAMILY))
AND ( (a.BEN_SUBGROUP is NULL AND b.BEN_SUBGROUP is null)OR (a.BEN_SUBGROUP = b.BEN_SUBGROUP))
AND ( (a.COMMON_NAME is NULL AND b.COMMON_NAME is null)OR (a.COMMON_NAME = b.COMMON_NAME))
AND ( (a.SCI_NAME is NULL AND b.SCI_NAME is null)OR (a.SCI_NAME = b.SCI_NAME))
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
LEFT JOIN ref_species d
on b.SpeciesId = d.SpeciesID
```

```
*/
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @dataLoadCode varchar(10) = '3024D';
DECLARE @combinedTable varchar(50) = 'Combined_CORAL'
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 = 46 -- Count - Grazers and Reef Dependent Species
```

```
INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleDate,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
```

```
SELECT @programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video', NULL, NULL, a.ResultValue, NULL, GETDATE(), NULL
FROM (
SELECT a.LocationID, a.FISH_COUNT as ResultValue, c.INSPECTION_DATE, d.SpeciesId, d.Group1, d.Group2
FROM Data_3024D_Final a
JOIN ref_conversion_species x
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
and x.DataStreamID = @dataStreamID
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
```

```

onx.SpeciesID = d.SpeciesID
) a
WHERE a.ResultValue is not null

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

ÿ
-- Insert data
SET @parameterID = 47 -- Presence - Grazers and Reef Dependent Species

INSERT INTO Combined_CORAL(ProgramID, DataStreamID, ParameterID, LocationID, GISUniqueID, SampleDate,
SpeciesID, SpeciesGroup1, SpeciesGroup2, SamplingMethod, QuadSize_m2, PlotSize_m2, ResultValue,
Description, DateAdded, QAQCFlag)
SELECT@programID, @dataStreamID, @parameterID, a.LocationID, NULL, a.INSPECTION_DATE,
a.SpeciesID, a.Group1, a.Group2, 'Area Video' , NULL, NULL, CASE WHEN a.ResultValue =1 THEN 'Y' ELSE 'N' END,
NULL, GETDATE(), NULL
FROM (
SELECT a.LocationID, a.PRESENCE_ABSENCE as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1,
d.Group2
FROM Data_3024D_Final a
JOIN ref_conversion_species x
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
and x.DataStreamID = @dataStreamID
JOIN Data_3024G_Load c
on c.SURVEY_SEQ = a.SURVEY_SEQ
INNER JOIN ref_species d
onx.SpeciesID = d.SpeciesID
) a
WHERE a.ResultValue IS NOT NULL

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

ÿ
ÿ

/*

delete from Combined_CORAL
where programId = 3024

delete from Combined_Data_Tracking where programId = 3024

SELECT *
FROM Combined_CORAL

SELECT Distinct ProgramID, b.IndicatorName, c.ParameterName, a.NumRowsCombined, a.LastUpdateDate
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 Data_3024D_Final

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 = 3024
```

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

```
exec [usp_delete_combined] 231, 'Combined_CORAL'
```

```
SELECT distinct ResultValue  
FROM Combined_Coral  
where parameterid = 47  
*/
```

```
END
```

```
GO
```

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_nekton_insert_3024C]
```

```
AS
```

```
BEGIN
```

```
SET NOCOUNT ON;
```

```
SET XACT_ABORT ON;
```

```
/*
```

```
ÿ
```

```
Parameter Values
```

```
QuadIdentifier = Tow
```

```
meshSize_mm = 25.4
```

```
GearSize_m = NULL
```

```
AreaSwept = NULL
```

```
Length time of Tow = 2 Minutes
```

```
SamplingMethod1 = presence, Count
```

```
SamplingMethod2 = Bohnsack-Bannerot visual fish census
```

```
ÿ
```

```
Presence = 36
```

```
Count = 35
```

```
ÿ
```

```
*/
```

```
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @dataLoadCode varchar(10) = '3024C';
```

```
DECLARE @combinedTable varchar(50) = 'Combined_NEKTON'
```

```
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 = 35 -- Count
```

```
INSERT INTO Combined_NEKTON ([ProgramID] , [DataStreamID] , [ParameterID] , [LocationID] , [SampleDate]
```

```
SpeciesID, SpeciesGroup1, SpeciesGroup2, [SamplingMethod1] , [SamplingMethod2] , [MeshSize_mm]
```

```
, [GearSize_m] , [AreaSwept_m2] , [Time_of_tow] , [Speed_of_tow] , [ReplicateNumber_QuadIdentifier]
```

```
, [ResultValue] , [DateAdded] , [description])
```

```
SELECT Distinct @programID, @dataStreamID, @parameterID, a.LocationID, a.INSPECTION_DATE,
```

```
a.SpeciesID, a.Group1, a.Group2, 'Count, Presence, Length', 'Diver count - Bohnsack-Bannerot visual
```

```
fish census (15-m radius cylinder with stationary observer for 10 minutes)', NULL, NULL, NULL, NULL,
```

```
NULL, NULL, a.ResultValue, GETDATE(), NULL
```

```
FROM(
```

```
SELECT a.LocationID, a.FISH_COUNT as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1 as
```

```
[Group1], d.Group2
```

```
FROM Data_3024C_Final a
```

```
JOIN ref_conversion_species x
```

```
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,
```

```
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
```

```
and x.DataStreamID = @dataStreamID
```

```
JOIN Data_3024G_Load c
```

```
on c.SURVEY_SEQ = a.SURVEY_SEQ
```

```
inner JOIN ref_species d
```

```
on x.SpeciesID = d.SpeciesID
```

```
) a
```



```
WHERE a.ResultValue is not null
```

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

```
-- Insert data
```

```
Set @parameterID = 36 -- Presence
```

```
INSERT INTO Combined_NEKTON ([ProgramID] , [DataStreamID] , [ParameterID] , [LocationID] , [SampleDate]  
SpeciesID, SpeciesGroup1, SpeciesGroup2, [SamplingMethod1] , [SamplingMethod2] , [MeshSize_mm]  
 , [GearSize_m] , [AreaSwept_m2] , [Time_of_tow] , [Speed_of_tow] , [ReplicateNumber_QuadIdentifier]  
 , [ResultValue] , [DateAdded] , [description])
```

```
SELECT Distinct @programID, @dataStreamID, @parameterID, a.LocationID, a.INSPECTION_DATE,  
a.SpeciesID, a.Group1, a.Group2, 'Count, Presence, Length', 'Diver count - Bohnsack-Bannerot visual  
fish census (15-m radius cylinder with stationary observer for 10 minutes)', NULL, NULL, NULL, NULL,  
NULL, NULL, CASE WHEN a.ResultValue =1 THEN 'Y' ELSE 'N' END, GETDATE(), NULL
```

```
FROM(  
SELECT a.LocationID, a.PRESENCE_ABSENCE as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1 as  
[Group1], d.Group2
```

```
FROM Data_3024C_Final a
```

```
JOIN ref_conversion_species x
```

```
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,  
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
```

```
and x.DataStreamID = @dataStreamID
```

```
JOIN Data_3024G_Load c
```

```
on c.SURVEY_SEQ = a.SURVEY_SEQ
```

```
inner JOIN ref_species d
```

```
onx.SpeciesID = d.SpeciesID
```

```
) a
```

```
WHERE a.ResultValue is not null
```

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

```
-- Insert data
```

```
Set @parameterID = 64 -- Standard Length
```

```
INSERT INTO Combined_NEKTON ([ProgramID] , [DataStreamID] , [ParameterID] , [LocationID] , [SampleDate]  
SpeciesID, SpeciesGroup1, SpeciesGroup2, [SamplingMethod1] , [SamplingMethod2] , [MeshSize_mm]  
 , [GearSize_m] , [AreaSwept_m2] , [Time_of_tow] , [Speed_of_tow] , [ReplicateNumber_QuadIdentifier]  
 , [ResultValue] , [DateAdded] , [description])
```

```
SELECT Distinct @programID, @dataStreamID, @parameterID, a.LocationID, a.INSPECTION_DATE,  
a.SpeciesID, a.Group1, a.Group2, 'Count, Presence, Length', 'Diver count - Bohnsack-Bannerot visual  
fish census (15-m radius cylinder with stationary observer for 10 minutes)', NULL, NULL, NULL, NULL,  
NULL, NULL, a.ResultValue, GETDATE(), NULL
```

```
FROM(  
SELECT a.LocationID, a.FISH_SIZE as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1 as  
[Group1], d.Group2
```

```
FROM Data_3024C_Final a
```

```
JOIN ref_conversion_species x
```

```
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,  
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
```

```
and x.DataStreamID = @dataStreamID
```

```
JOIN Data_3024G_Load c
```

```
on c.SURVEY_SEQ = a.SURVEY_SEQ
```

```
inner JOIN ref_species d
```

```
onx.SpeciesID = d.SpeciesID
```

```
) a
```

```
WHERE a.ResultValue is not null
```

```
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, LastUpdateDate
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 a. CombinedTable Name = ' Combined_NEKTON'

SELECT *
FROM Data_3024C_Final

SELECT *
FROM Combined_Parameters a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
where b.IndicatorName = 'Nekton'

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 60

SELECT *
FROM ref_speci es
where habi tat = 'Submerged Aquatic Vegetati on'
and scienti ficname like '%calcer%'
*/

END
```

GO

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_nekton_insert_3024D]
```

```
AS
```

```
BEGIN
```

```
SET NOCOUNT ON;
```

```
SET XACT_ABORT ON;
```

```
/*
```

```
ÿ
```

```
Parameter Values
```

```
QuadIdentifier =
```

```
meshSize_mm =
```

```
GearSize_m = NULL
```

```
AreaSwept = NULL
```

```
Length time of Tow =
```

```
SamplingMethod1 = presence, Count
```

```
SamplingMethod2 = Bohnsack-Bannerot visual fish census
```

```
ÿ
```

```
Presence = 36
```

```
Count = 35
```

```
ÿ
```

```
*/
```

```
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @dataLoadCode varchar(10) = '3024D';
```

```
DECLARE @combinedTable varchar(50) = 'Combined_NEKTON'
```

```
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 = 35 -- Count
```

```
INSERT INTO Combined_NEKTON ([ProgramID] , [DataStreamID] , [ParameterID] , [LocationID] , [SampleDate] , [SpeciesID] , [SpeciesGroup1] , [SpeciesGroup2] , [SamplingMethod1] , [SamplingMethod2] , [MeshSize_mm] , [GearSize_m] , [AreaSwept_m2] , [Time_of_tow] , [Speed_of_tow] , [ReplicateNumber_QuadIdentifier] , [ResultValue] , [DateAdded] , [description])
```

```
SELECT Distinct @programID, @dataStreamID, @parameterID, a.LocationID, a.INSPECTION_DATE, a.SpeciesID, a.Group1, a.Group2, 'Count, Presence, Length', 'Diver count - REEF's Roving Diver Method', NULL, NULL, NULL, NULL, NULL, NULL, a.ResultValue, GETDATE(), NULL
```

```
FROM(
```

```
SELECT a.LocationID, a.FISH_COUNT as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1 as [Group1], d.Group2
```

```
FROM Data_3024D_Final a
```

```
JOIN ref_conversion_species x
```

```
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER, a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
```

```
and x.DataStreamID = @dataStreamID
```

```
JOIN Data_3024G_Load c
```

```
on c.SURVEY_SEQ = a.SURVEY_SEQ
```

```
inner JOIN ref_species d
```

```
on x.SpeciesID = d.SpeciesID
```

```
) a
```

```
WHERE a.ResultValue is not null
```

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

```
-- Insert data
```

```
Set @parameterID = 36 -- Presence
```

```
INSERT INTO Combined_NEKTON ([ProgramID] , [DataStreamID] , [ParameterID] , [LocationID] , [SampleDate]  
SpeciesID, SpeciesGroup1, SpeciesGroup2, [SamplingMethod1] , [SamplingMethod2] , [MeshSize_mm]  
 , [GearSize_m] , [AreaSwept_m2] , [Time_of_tow] , [Speed_of_tow] , [ReplicateNumber_QuadIdentifier]  
 , [ResultValue] , [DateAdded] , [description])
```

```
SELECT Distinct @programID, @dataStreamID, @parameterID, a.LocationID, a.INSPECTION_DATE,  
a.SpeciesID, a.Group1, a.Group2, 'Count, Presence, Length', 'Diver count - REEF's Roving Diver  
Method', NULL, NULL, NULL, NULL, NULL, NULL, CASE WHEN a.ResultValue =1 THEN 'Y' ELSE 'N' END,  
GETDATE(), NULL
```

```
FROM(
```

```
SELECT a.LocationID, a.PRESENCE_ABSENCE as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1 as  
[Group1], d.Group2
```

```
FROM Data_3024D_Final a
```

```
JOIN ref_conversion_species x
```

```
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,  
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
```

```
and x.DataStreamID = @dataStreamID
```

```
JOIN Data_3024G_Load c
```

```
on c.SURVEY_SEQ = a.SURVEY_SEQ
```

```
inner JOIN ref_species d
```

```
onx.SpeciesID = d.SpeciesID
```

```
) a
```

```
WHERE a.ResultValue is not null
```

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

```
-- Insert data
```

```
Set @parameterID = 64 -- Standard Length
```

```
INSERT INTO Combined_NEKTON ([ProgramID] , [DataStreamID] , [ParameterID] , [LocationID] , [SampleDate]  
SpeciesID, SpeciesGroup1, SpeciesGroup2, [SamplingMethod1] , [SamplingMethod2] , [MeshSize_mm]  
 , [GearSize_m] , [AreaSwept_m2] , [Time_of_tow] , [Speed_of_tow] , [ReplicateNumber_QuadIdentifier]  
 , [ResultValue] , [DateAdded] , [description])
```

```
SELECT Distinct @programID, @dataStreamID, @parameterID, a.LocationID, a.INSPECTION_DATE,  
a.SpeciesID, a.Group1, a.Group2, 'Count, Presence, Length', 'Diver count - REEF's Roving Diver  
Method', NULL, NULL, NULL, NULL, NULL, NULL, a.ResultValue, GETDATE(), NULL
```

```
FROM(
```

```
SELECT a.LocationID, a.FISH_SIZE as ResultValue, c.INSPECTION_DATE, d.SpeciesID, d.Group1 as  
[Group1], d.Group2
```

```
FROM Data_3024D_Final a
```

```
JOIN ref_conversion_species x
```

```
on COALESCE(a.SCI_NAME, a.COMMON_NAME, a.BEN_SUBGROUP, a.LATIN_FAMILY, a.FAMILY, a.CLASS_ORDER,  
a.PHYLA, a.TAXON_TYPE)=x.OriginalCommonIdentifier
```

```
and x.DataStreamID = @dataStreamID
```

```
JOIN Data_3024G_Load c
```

```
on c.SURVEY_SEQ = a.SURVEY_SEQ
```

```
inner JOIN ref_species d
```

```
onx.SpeciesID = d.SpeciesID
```

```
) a
```

```
WHERE a.ResultValue is not null
```

```
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, LastUpdateDate
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 a. CombinedTableName = 'Combined_NEKTON'

SELECT *
FROM Data_3024D_Final

SELECT *
FROM Combined_Parameters a
INNER JOIN Indicator b on a.IndicatorID = b.IndicatorID
where b.IndicatorName = 'Nekton'

SELECT *
FROM DataStreamProcedure
WHERE ProgramID = 60

SELECT *
FROM ref_species
where habitat = 'Submerged Aquatic Vegetation'
and scientificname like '%calcer%'
*/

END
```

GO

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_Data_3024A_Load_insert]
AS
BEGIN

SET XACT_ABORT ON;

INSERT INTO Data_3024A_Final (BENTHICS_OLD_SEQ, SURVEY_SEQ, TAXON_SEQ, QUAD_NO, SLIDE_NO, CELL_NO,
COVER_CODE, PCT_COVER, PCT_OVERGR_FOULED, COMMENT, TAXON_TYPE, PHYLA, CLASS_ORDER, FAMILY,
LATIN_FAMILY, BEN_SUBGROUP, COMMON_NAME, SCI_NAME, RRT_CODE_BENTHICS, LOG_A, B_VALUE, FISH_SPECIES,
SITE_SEQ)
SELECT a.*, [TAXON_TYPE] as TAXON_TYPE, PHYLA, CLASS_ORDER, FAMILY, LATIN_FAMILY, BEN_SUBGROUP,
COMMON_NAME, SCI_NAME, RRT_CODE_BENTHICS, LOG_A, B_VALUE, [FISH SPECIES] as FISH_SPECIES,
d.SITE_SEQ
FROM Data_3024A_Load a
INNER JOIN Data_3024E_Load b on a.TAXON_SEQ = b.TAXON_SEQ
INNER JOIN Locations_3024A c on a.SURVEY_SEQ = c.SURVEY_SEQ
INNER JOIN Locations_3024B d on c.SITE_SEQ = d.SITE_SEQ
END
```

GO