

**Data Management Plan**  
**for**  
**Gulf Coast Prairie Land Conservation Cooperative Grant 2013 -03**

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*January 5, 2014*

The goal of this Data Management Plan is to create a central repository of information regarding the data inputs, software, and data outputs utilized in the seamless application of the Sea Level Affecting Marshes Model (SLAMM) to the US Gulf Coast. This document will provide transparency in data selection, organization, and storage as well as software used in order to facilitate reproducibility and future studies.

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## Data Inputs

### Existing data collections

#### Existing SLAMM projects

Description:	A collection of SLAMM project files and corresponding inputs from previously completed studies
Format:	ASCII Rasters, SLAMM6 files
QAQC:	Review project reports
Source:	Local data archives, US EPA
Data Processing & Scientific Workflows:	Input files, parameter values, and model application reports will be gathered from Warren Pinnacle Consulting, Inc. (WPC) storage media and requested from US EPA and will be stored within a single data repository. A GIS database of existing model parameters will be created.
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	1 TB
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	

## Elevation

Description:	A continuous elevation layer will be developed by creating a single mosaic for each SLAMM Project Site, with all mosaics aligned to the same coordinate system (datum, projection, resolution, and origin). Typically each mosaic will be developed from a collection of local-scale LiDAR Datasets which have been collected by federal, state, or local agencies. The National Elevation Dataset (NED) will be used for gap filling in cases where LiDAR data does not exist.
Format:	The data are typically available as bare-earth LAS points or DEMs. The mosaic inputs will be ArcGIS GRID (raster) format. The mosaics will be converted from GRID to ASCII for model input preparation.
QAQC:	Review metadata; ensure LiDAR was post-processed as bare-earth. Review in SLAMM and GIS software to check for anomalies.
Source:	Typically downloaded from online repositories, such as NOAA's Digital Coast. Obtained from other sources as needed including state and local sources.
Data Processing & Scientific Workflows:	Conversion from LAS point clouds to ASCII raster as needed. First creating 5m raster from minimum of last returns, resampling (average) at 15 meters into a uniform project coordinate system, combining rasters, and then trimming to individual SLAMM project areas. Data anomalies will be addressed as necessary.
Backup & Storage:	Daily backup at IM Daily backup to local hard drive at WPC
Volume Estimate:	1 TB
Access & Sharing:	Publicly available
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citations:	<a href="http://www.csc.noaa.gov/dataviewer/#">http://www.csc.noaa.gov/dataviewer/#</a> <a href="http://www.csc.noaa.gov/inventory/">http://www.csc.noaa.gov/inventory/</a> <a href="http://ned.usgs.gov/">http://ned.usgs.gov/</a> <a href="http://www.csc.noaa.gov/digitalcoast/_pdf/SLC_Technical_Considerations_Document.pdf">http://www.csc.noaa.gov/digitalcoast/_pdf/SLC_Technical_Considerations_Document.p df</a> <a href="http://csc.noaa.gov/digitalcoast/_pdf/Lidar_marshes_slamm_CSC.pdf">http://csc.noaa.gov/digitalcoast/_pdf/Lidar_marshes_slamm_CSC.pdf</a>

## Wetlands

Description:	A continuous wetland layer will be developed by creating a single mosaic for each SLAMM Project Site, with all mosaics aligned to the same coordinate system (datum, projection, resolution, and origin).
Format:	The format of this data set is shapefile, and then converted to ASCII text for model input preparation.
QAQC:	Wetland rasters will be reviewed for accuracy through spot checks and visualization using GIS software.
Source:	While the best available data will be used to create the land coverage layers, we anticipate that the typical data source will be the National Wetland Inventory (NWI). However, we will look for other sources available including state and local sources.
Data Processing & Scientific Workflows:	Crosswalk of NWI categories to SLAMM wetland categories using a lookup table. Conversion from shapefile format to ASCII raster as needed at 15 m scale into a uniform project coordinate system. Combine rasters, and then trimming to individual SLAMM project areas. Fill dry-land cells as this land cover attribute is not addressed by NWI. Data anomalies will be addressed as necessary.
Backup & Storage:	Weekly backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	1 TB
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<a href="http://www.fws.gov/wetlands/Wetlands-Mapper.html">http://www.fws.gov/wetlands/Wetlands-Mapper.html</a> SLAMM Technical documentation, Table 4, pages 43-44, ( <a href="http://warrenpinnacle.com/prof/SLAMM6/SLAMM6_Technical_Documentation.pdf">http://warrenpinnacle.com/prof/SLAMM6/SLAMM6_Technical_Documentation.pdf</a> )

## Dike locations

Description:	Locations where coastal lands are protected from tidal-water penetration are required.
Format:	Input data will be ESRI polygon or poly-line shapefile format and then converted to ESRI ASCII raster format for input into the model.
QAQC:	Dike and Levee models will be shared with the project advisory committee prior to final model runs. If excessive dry-land inundation is predicted in a given simulation, local sources will be contacted to determine if a dike or seawall may need to be added to our composite data set.
Source:	Locations where coastal lands are protected from water penetration will be determined by use of designations in the National Wetlands Inventory data layer and supplemented with information from the Levees GIS Database developed by the US Army Corps of Engineers (ACE). Local data may supplement these data where required.
Data Processing & Scientific Workflows:	Water flow pathways are plotted prior to sea-level rise modeling to determine which lands are currently inundated. If existing dry lands are predicted to disappear an evaluation of whether this is a problem with tide range data, wetland input layers, or the dike locations map. These problems will be remedied prior to using the model for sea-level rise projections.
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	100 MB
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<a href="http://nld.usace.army.mil/egis/f?p=471:1:">http://nld.usace.army.mil/egis/f?p=471:1:</a> <a href="http://www.fws.gov/wetlands/Wetlands-Mapper.html">http://www.fws.gov/wetlands/Wetlands-Mapper.html</a>

## Impervious surface

Description:	A continuous impervious surface layer will be developed by creating a single mosaic for each SLAMM Project Site, with all mosaics aligned to the same coordinate system (datum, projection, resolution, and origin). Impervious values are assigned only to areas that are not identified as wetlands in that respective SLAMM input. While the best available data will be used to create each mosaic, we anticipate that the typical data source will be the National Land Cover Data Set (NLCD). The impervious surface layer will be derived by reclassifying the NLCD's "Developed" cover classes. Alternatively, the NLCD Percent Developed Imperviousness data set will be evaluated for use in development of this SLAMM input. At present, the most current NLCD data product is from 2006. Release of a 2011 product is expected in early 2014. If current state or local-level land use/cover data is available and is compatible with the NLCD product and otherwise suitable for the development of this layer, then it will be evaluated for incorporation into the mosaics.
Format:	The NLCD data are available in Erdas IMAGINE (.img) format. These rasters will be converted to ArcGIS GRID format for processing, and finally to ASCII text for model input.
QAQC:	Data anomalies will be addressed as necessary. In particular, discrepancies between areas identified as wetlands by the NWI (or other data source) and areas identified as other land cover type by the NLCD (e.g., developed) will be examined using orthoimagery resources.
Source:	NLCD data products can be downloaded from the MRLC website listed below.
Data Processing & Scientific Workflows:	The nominally 30m data will be resampled to 15m in the uniform project coordinate system. Where necessary, rasters will be combined, and then trimmed to individual SLAMM project areas. Data anomalies will be addressed as necessary.
Backup & Storage:	Daily backup at IM Daily backup to local hard drive at WPC
Volume Estimate:	100 GB
Access & Sharing:	Publicly available
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<a href="http://www.mrlc.gov/index.php">http://www.mrlc.gov/index.php</a>

## Slope

Description:	Slope of each cell, used to calculate partial changes in cell composition. Derived from the Elevation (DEM) input. Slope units are in degrees.
Format:	The format of this data set is ArcGIS GRID, and then converted to ASCII text for model input preparation.
QAQC:	Typically there is very little QAQC required for the slope layer, as it is derived almost entirely from the Elevation layer. Any data anomalies will be examined and addressed as necessary.
Source:	This model input is derived from the Elevation layer. An additional buffer of elevational data is used around the perimeter of the Elevation input extent to avoid anomalous edge effects (e.g., artificially high values).
Data Processing & Scientific Workflows:	Once the elevation input is prepared, the Slope layer is created through the application of a single algorithm in ArcGIS.
Backup & Storage:	Daily backup at IM Daily backup to local hard drive at WPC
Volume Estimate:	100 GB
Access & Sharing:	Publicly available
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	N/A

## Vertical datum correction

Description:	Vertical datum correction values (to convert elevation data obtained with NAVD88 to a vertical datum of mean tide level). Are available nationwide from NOAA and will be obtain through the use of their VDATUM software: <a href="http://vdatum.noaa.gov/download.html">http://vdatum.noaa.gov/download.html</a>
Format:	ASCII raster and text files
QAQC:	VDATUM rasters will be reviewed for accuracy through spot checks and visualization using GIS software.
Source:	National Oceanic and Atmospheric Administration (NOAA)
Data Processing & Scientific Workflows:	Once obtained from the VDATUM software, correction values will be rasterized and extrapolated using a simple kriging technique, as appropriate.
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	50 GB
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<a href="http://vdatum.noaa.gov/subdownload/download_regional.php">http://vdatum.noaa.gov/subdownload/download_regional.php</a>

## Tide range

Description:	A database of tide ranges for the entire study area.
Format:	Excel, GIS point-based shapefiles.
QAQC:	Prior to model production runs, tide ranges will be presented to the project advisory committee for review
Source:	While the best available data will be used to estimate the tide ranges, we anticipate that the typical data source will from the NOAA Tides and Currents. However, we will look for other sources available including state and local sources.
Data Processing & Scientific Workflows:	Typically there is very little QAQC required for the tide ranges, as they are derived from NOAA gauge stations. When other source will be used, data processing may include processing of the daily inundation data to derive the great diurnal tide ranges. Any data anomalies will be examined and addressed as necessary.
Backup & Storage:	Weekly backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	3 GB (databases, shapefiles and citations)
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	Tidal Datums and Their Applications, Special Publication No. CO-OPS 1, NOAA/NOS, June 2000.

## Frequency of inundation

Description:	Frequency of inundation information provides spatial information about how frequently water inundates lands of different heights as a result of wind and lunar tides.
Format:	NOAA historic data are downloaded into a spreadsheet and then tables and graphs of elevation heights compared to the frequency of inundation are derived. The 30-day inundation frequency height is gathered from this chart after quality assurance. This provides an estimate of the tidal wetland to dry land elevation boundary at each location.
QAQC:	Derived inundation frequency data will be compared against existing analyses and analyses from adjacent stations. Any anomalies or outliers will be identified and the reason for this outlying data (or theories about this) will be determined and reported upon. Outliers will be removed from the data set only if errant data or incomplete data records are posited to be the reason for the anomalies.
Source:	Frequency of inundation information is primarily gathered from NOAA historic data. Alternative local tide gauges with quality assured data sets may be substituted if required.
Data Processing & Scientific Workflows:	Data are placed into an existing spreadsheet format that plots elevations levels in meters above MTL against frequency of inundation.
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	20 MB
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<a href="http://tidesandcurrents.noaa.gov/cdata/StationList?type=Current+Data&amp;filter=historic">http://tidesandcurrents.noaa.gov/cdata/StationList?type=Current+Data&amp;filter=historic</a>

## Historic SLR

Description:	A database of historical sea level rise rates for the entire study area.
Format:	Excel, GIS point-based shapefiles
QAQC:	Prior to model production runs, tide ranges will be presented to the project advisory committee for review
Source:	While the best available data will be used to estimate the tide ranges, we anticipate that the typical data source will from the NOAA Tides and Currents. However, we will look for other sources available including state and local sources.
Data Processing & Scientific Workflows:	Typically there is very little QAQC required for historic SLR, as they are derived from NOAA Tides and Currents Database. Any data anomalies will be examined and addressed as necessary.
Backup & Storage:	Weekly backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	3 GB (databases, shapefiles and citations)
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<a href="http://tidesandcurrents.noaa.gov/">http://tidesandcurrents.noaa.gov/</a>

## Accretion

Description:	A meta-analysis of studies that measure vertical accretion of wetlands within the Gulf of Mexico.
Format:	A report summarizing accretion-rate findings will be completed and included as part of the final project report.
QAQC:	Peer-reviewed scientific literature or peer-reviewed government reports will exclusively be utilized. Prior to model production runs, accretion rates and accretion modeling will be presented to the project advisory committee for review.
Source:	Peer-reviewed scientific literature or peer-reviewed government reports.
Data Processing & Scientific Workflows:	Accretion data will be examined and categorized by habitat, and measurement technique. If possible land-elevations where these accretion measurements were taken will be characterized. Data within this analysis will provide the basis for calibration of a mechanistic accretion model for regularly-flooded marsh.
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	20 MB
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	<p>Existing accretion data, dozens of citations will be presented within the accretion white-paper report. Some example citations follow:</p> <p>White, William A., Morton, R. A., and Holmes, C. W. (2002). "A comparison of factors controlling sedimentation rates and wetland loss in fluvial-deltaic systems, Texas Gulf coast." <i>Geomorphology</i>, 44(1-2), 47-66.</p> <p>Williams, H. (2003). "Modeling Shallow Autocompaction in Coastal Marshes Using Cesium-137 Fallout: Preliminary Results from the Trinity River Estuary, Texas." <i>Journal of Coastal Research</i>, 19(1), 180-188.</p> <p>Yeager, K. M., Santschi, P. H., Rifai, H. S., Suarez, M. P., Brinkmeyer, R., Hung, C. C., Schindler, K. J., Andres, M. J., and Weaver, E. A. (2007). "Dioxin Chronology and Fluxes in Sediments of the Houston Ship Channel, Texas: Influences of Non-Steady-State Sediment Transport and Total Organic Carbon." <i>Environ. Sci. Technol</i>, 41(15), 5291–5298.</p>

## Erosion

Description:	A database of horizontal erosion rates for marsh, swamp, and beach wetland categories.
Format:	Excel, GIS point-based shapefiles
QAQC:	Prior to model production runs, erosion rates will be presented to the project advisory committee for review
Source:	Site –specific data from peer-reviewed literature sources will be preferred, with supplementation from grey literature and local experts as needed. Shoreline change data may also be incorporated.
Data Processing & Scientific Workflows:	Data processing needs are dependent on the format of available data. Calculations may be required to convert from English to Metric units. Shoreline change data will be analyzed using GIS software (QGIS or R) as necessary.
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Volume Estimate:	3 GB (databases, shapefiles and citations)
Access & Sharing:	Available from WPC on request
Restrictions:	Data are publically available with no restrictions.
Fees:	No fees
Citation:	Citations will be dependent on the input data format and data procession required.

## New collections

No new input data will be collected as a part of this project.

## Software or other needs

### SLAMM

Description:	The Sea-Level Affecting Marshes Model (SLAMM) is the main software used for this project. Model simulations will be run using the most current model version.
Restrictions:	The most recent SLAMM version may not be publicly available due ongoing model development.
Fees:	none
Source/Link:	<a href="http://warrenpinnacle.com/prof/SLAMM/index.html">http://warrenpinnacle.com/prof/SLAMM/index.html</a>

### QGIS/Mapwindow/R

Description:	Free GIS software will be used to visualize rasters for quality assurance and model calibration, as well as to create spatial databases of tide, salt elevation, accretion, and erosion data, as applicable.
Restrictions:	none
Fees:	none
Source/Link:	<a href="http://www.qgis.org/en/site/">http://www.qgis.org/en/site/</a> <a href="http://www.mapwindow.org">http://www.mapwindow.org</a> <a href="http://www.r-project.org/">http://www.r-project.org/</a>

### Delphi/Embarcadero

Description:	Embarcadero Delphi is an integrated development environment (IDE) for console, desktop graphical, web, and mobile applications. This platform is used to write and build SLAMM executable file and associated pieces of software.
Restrictions:	This is a commercial product.
Fees:	Several software license options are available.
Source/Link:	<a href="http://www.embarcadero.com/">http://www.embarcadero.com/</a>

### SLAMMVIEW

Description:	SLAMM-View is a browser-based application that supports visualization and user-controlled analysis of the SLAMM output through the Internet.
Restrictions:	No restrictions in use of this software, owned by Image Matters LLC.
Fees:	The SLAMM-View system is currently supported through a separate contract with the USFWS, and support is expected to continue for at least the next 1.5 years.
Source/Link:	<a href="http://www.slammview.org">www.slammview.org</a>

## ArcGIS

Description:	The ESRI ArcGIS software is the primary software used to prepare the geospatial inputs for the SLAMM model (i.e., the ASCII text rasters for Elevation, Slope, Wetlands, Diked, and Impervious Surface layers).
Restrictions:	The software is licensed to Jeff Ehman, of Image Matters.
Fees:	Fees are paid by Jeff Ehman, of Image Matters.
Source/Link:	<a href="http://www.esri.com">www.esri.com</a>

## VDATUM

Description:	VDatum is designed to vertically transform geospatial data among a variety of tidal, orthometric and ellipsoidal vertical datums. In this project VDATUM will be used to convert elevation data in NADV88 to Mean Tide Level (MTL).
Restrictions:	none
Fees:	none
Source/Link:	<a href="http://vdatum.noaa.gov/">http://vdatum.noaa.gov/</a>

## VDATUM 2 Raster

Description:	VDATUM2Raster is internally developed software for use by WPC to prepare input for and process output from NOAA's VDATUM software.
Restrictions:	Not publicly available
Fees:	none
Source/Link:	NA

## Data outputs

### Numerical Model outputs

#### CSV and Excel Spreadsheets

Description:	Comma Separated Value Worksheets (CSV files) produced directly by the SLAMM model and Excel Spreadsheets derived from those data sets
Data Management Resources:	Approximately 2-3% of the total project's cost. Existing spreadsheet templates will be used to optimize this task.
Format:	Excel *.csv and *.xlsx formats
Data Processing & Scientific Workflows:	Data will be consolidated using pivot tables to combine results from multiple model runs and calculations will be performed to covert outputs from hectares to acres. Acreage changes for each habitat type and percentage of habitat loss from the initial condition will be calculated for each sea-level rise scenario executed.
Quality Checks:	All outputs will be reviewed to ensure numbers are logical and formatted correctly. All calculations used in project reporting will be double-checked by deriving data in two different manners (e.g. the use of pivot tables and sorting data to derive the same summation).
Metadata:	The FGDC 1998 Metadata Standard will be used
Volume Estimate:	1 GB
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Repository for Data:	In addition to the NCCWSC repository (ScienceBase) the data will be housed on the WPC FTP server
Access & Sharing:	Public read-only access, WPC read/write access
Exclusive Use:	All data will be available publically at the end of the project.
Restrictions:	No restrictions are placed on the output data.
Citation:	TBD
Digital Object Identifier (DOI)/Link:	TBD
Contact:	Amy Polaczyk, <a href="mailto:apolaczyk@warrenpinnacle.com">apolaczyk@warrenpinnacle.com</a> , 802-496-6801

## Graphical Model Outputs

### GIS Layers

Description:	Layer in ESRI ASCII raster format produced directly by the SLAMM model.
Data Management Resources:	Describe the proposal resources allocated for data management activities for the new data collected as a level of effort, total dollars allocated, or as a percentage of the total project's cost. Resources could include people's time or proposal funding.
Format:	ESRI ASCII raster *.asc format.
Data Processing & Scientific Workflows:	Layers will be created for each simulated scenario and output years.
Quality Checks:	Rasters will be reviewed for accuracy through spot checks and visualization using GIS software.
Metadata:	The FGDC 1998 Metadata Standard will be used
Volume Estimate:	1 TB
Backup & Storage:	Daily backup to local hard drive at WPC , monthly offsite backup
Repository for Data:	In addition to the NCCWSC repository (ScienceBase) the data will be housed on the WPC FTP server
Access & Sharing:	Public read-only access, WPC read/write access
Exclusive Use:	All data will be available publically at the end of the project.
Restrictions:	No restrictions are placed on the output data.
Citation:	TBD
Digital Object Identifier (DOI)/Link:	TBD
Contact:	Amy Polaczyk, <a href="mailto:apolaczyk@warrenpinnacle.com">apolaczyk@warrenpinnacle.com</a> , 802-496-6801

## SLAMMVIEW

Description:	The SLAMM output for this project will be converted to transparent PNG files for use in the SLAMM-View system for visualization and analysis. The files are projected to a geographic reference system, geo-referenced via an associated “world file” (i.e., .PGW), and maintain the native 15m resolution.
Data Management Resources:	Image Matters is tasked to convert the SLAMM outputs and add the files to SLAMM-View application as Projects. We anticipate that the Gulf Coast will be segmented into ~10 – 15 separate Projects.
Format:	The file format is Portable Network Graphics (PNG)
Data Processing & Scientific Workflows:	The set of ASCII file outputs from SLAMM for the different time steps and different scenarios will be (1) imported into ArcGIS as GRIDS, (2) re-projected, (3) exported as PNG files, and (4) made transparent in Adobe Photoshop.
Quality Checks:	Once the SLAMM results have been finalized, the only errors that could be introduced into these products are within the above processing chain. These errors are checked for at two points in the process: (1) after step #4, in the above list, and then after the Project is established in the SLAMM-View application.
Metadata:	Study-level metadata is made available for each Project. This is a link to the SLAMM report on the Projects page in SLAMM-View
Volume Estimate:	<10 GB.
Backup & Storage:	Daily backup at IM.
Repository for Data:	None planned. These files are specific to the SLAMM-View application.
Access & Sharing:	The data will be available for access within the SLAMM-View application, but not for public download. The .PNG files can be made available upon request, but are not a part of the deliverables stated in the proposal or the contract.
Exclusive Use:	The .PNG files can be made available upon request at any point two years subsequent to the completion of the project.
Restrictions:	None
Citation:	SLAMM-View Projects
Digital Object Identifier (DOI)/Link:	<a href="http://www.slammview.org">www.slammview.org</a>
Contact:	Jeff Ehman, <a href="mailto:jeffe@imagemattersllc.com">jeffe@imagemattersllc.com</a> , 812-325-7937