

**Volume III
APPENDIX L
Annex 2**

5

**Convey Atchafalaya River to Northern Terrebonne Marshes
and Multipurpose Operation of Houma Navigation Lock**

Final Feasibility Report

10

**Appendix L – Engineering Investigations and Cost Estimates
Annex 2 – Detailed Hydraulic Modeling Studies**

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L2-1 MODEL STUDY METHODOLOGIES

Hydraulic modeling for this project included hydrodynamic modeling and salinity modeling. The model was calibrated and was utilized for alternatives analysis. This analysis included high and low Atchafalaya River condition runs for three times throughout the project life. The results from these runs were used to develop annual hydrographs composed of monthly averaged flows and annual average salinity values computed from monthly averaged salinities. Environmental benefits were determined using these hydrographs and salinity values.

L2-1.1 Selection of Modeling Program

A modeling program for a hydrologic study is primarily selected based on the following factors:

- The configuration of water bodies, channels, and flow control structures in the study area;
- The nature of water movement inside the system; and
- The parameters to be studied (e.g., water level, velocity, and/or salinity etc.).

The project area is comprised of areas of marsh and open water with bounding channels and several intersecting interior channels. Since the project area is shallow, the vertical movement of water is insignificant relative to that in the longitudinal and transverse directions and can be ignored during hydrodynamic and salinity computations without loss of accuracy in the final results. The marsh system is assumed to be well mixed vertically. Therefore, a modeling program that can simulate 2D, vertically averaged movement of water and salinity is the most appropriate for the study. A 3D modeling program, which also computes vertical variations, can also be used in this case, but it would add the unwarranted burden of additional data requirements (vertical variation in velocity and salinity), computational overhead, and complexity.

Various public domain and commercial/proprietary computer programs are available for 2D, vertically averaged, hydrodynamic, and salinity transport modeling. These models solve the hydrodynamic and constituent transport equations either by a finite element method or by a finite difference method. Each method requires a model mesh/grid with certain characteristics. While both methods of representation/solution are adequate, the finite element method allows some distinct advantages. First, since the mesh elements can be of various shapes (line, triangle or a quadrilateral), the finite element method enables fitting elements more closely to the topographic features. Second, the finite element approach allows variation of element size in a single mesh, enabling creation of a more dense mesh where more details are necessary. In contrast, in the finite difference method, the elements are strictly squares or rectangles of a single size throughout the mesh. Some finite difference models do allow creation of denser patches (additional sub-grids) that can be linked to the main grid by “nesting.” For a complex topography such as exists in the project area, this could be quite cumbersome.

Some of the commonly used 2D modeling programs are:

1. RMA (RMA-2, RMA-11) suite of models (finite element) by Resource Modelling Associates, Inc. (RMA);
2. TABS-MD by USACE ERDC (finite element);
3. FESWMS from the US Geological Survey (finite element); and
4. MIKE-21 from the Danish Hydraulic Institute (finite difference).

For this project, the RMA suite of models was selected for the reasons listed below:

1. It can represent all the physical processes that govern the transport of water and salinity in the study area.
2. It can simulate vertically averaged, longitudinal, and transverse water movement.
3. It uses a finite element mesh that will allow a closer representation of the diverse topographic features (e.g., bayous, pipeline canals, trenasses, levees, structures).
4. While similar in structure to TABS-MD, it has several enhancements that allow for a more stable solution and easier processing of input and output data.
5. It is supported directly by the author, Dr. Ian King, who provides a centralized source for technical assistance, “bug” fixes, and program updates.
6. Pre-processing of input data, mesh generation, and post-processing of output, including animations, can be done using graphical interfaces called RMA-Net and RMA-Viewer developed by waterRIDE.

L2-1.1.1 Description of RMA Models

The RMA Numerical Modeling System (King 2006) is a collection of generalized computer programs and utility codes, designed for simulating vertically averaged, 2D hydrodynamics in rivers, estuaries, lakes, marshes, and other waterbodies. It can also simulate the transport of conservative substances (e.g., salinity) and sediment. The equations are solved by finite element method.

The software suite consists of two computer programs: RMA-2 to simulate hydrodynamics and RMA-11 to simulate constituent (e.g., salinity) transport. In a typical application where salinity predictions are desired, RMA-2 is run first to predict water levels and velocities in the system. These results are then input to the RMA-11 program to simulate salinity transport. This sequential approach of running RMA-2 followed by RMA-11 is valid only when the constituent transport does not affect the velocity field. Such a “linked” RMA-2/RMA-11 application would be invalid if salinity density currents were present in the system, because the flow can no longer be averaged in the vertical dimension and the salinity transport affects the velocity field (i.e., creates stratified flow).

Since the project area is shallow, no significant salinity density gradients are known to exist that will affect the velocity distribution.

RMA-2 and RMA-4 (the predecessor to RMA-11) were first developed by Norton, King, and Orlob of Water Resources Engineers for the USACE Walla Walla District in 1973. Further developments were made by Dr. Ian King at the University of California at Davis and then at

Resource Modelling Associates, including the development of RMA-11. The programs are further described below.

310 L2-1.1.2 Capabilities and Limitations of RMA-2

RMA-2 is a 2D, vertically averaged, finite element hydrodynamic model. It computes water surface elevations and horizontal velocity components for subcritical, free-surface, steady, and unsteady flow situations. The program has been applied to calculate water levels and flow distribution around islands, bridges, and off-channel hydropower plants; water levels and flow distributions at river junctions; circulation patterns in water bodies and wetlands; and water levels and general flow patterns in rivers, reservoirs, and estuaries.

320 RMA-2 is capable of identifying errors in the finite element mesh and simulating element wetting and drying. It can simulate five different types of flow control structures, supports a variety of boundary conditions, and includes (optionally) wind stress and Coriolis forces (i.e., the forces associated with the earth's rotation). However, it disregards vertical accelerations and cannot be used for simulating rapidly varied flow such as that near an intake structure, for example.

L2-1.1.3 Capabilities and Limitations of RMA-11

325 RMA-11 is the constituent transport modeling program. It uses the hydrodynamic solution (water surface elevations and velocities) from RMA-2 to determine how constituents are transported (advection and dispersion) through a given mesh. It can also read a set of user-specified point or nonpoint loads as input. It can model up to six constituents as conservative or non-conservative using first-order decay.

330 The 2D form of RMA-11 is limited to one 1D (cross-sectionally averaged) and 2D (depth-averaged) flow situations in which the concentration is well-mixed in the vertical dimension. Like RMA-2, it will not provide accurate concentrations for cases in which the density of the water influences the velocity field.

335 L2-1.1.4 Description of Pre- and Post-Processing Software

340 RMAnet/RMAViewer is a software package that serves to pre- and post-process input and output data, respectively, for surface water modeling and analysis. This graphical user interface is specifically designed to facilitate the utilization of several numerical models such as RMA, TABS-MD, HIVEL2D, and ADCIRC, among others.

345 As a pre-processor, RMAnet provides tools to create a finite element mesh, cross-sectional nodes, and associated boundary conditions required for analysis which are then saved in model-specific files. The RMA programs then use these files as input to run the model.

The RMAGEN program provides additional pre-processing tools used to reorder the mesh nodes to maximize computational efficiency. Additionally, RMAGEN can be used to perform mesh edits and compute cross section weighting for 1D nodes. This software was developed by Resource Modelling Associates.

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As a post-processor, RMAViewer reads the output files created by RMA-2 and RMA-11 containing water surface elevation, velocity, and constituent concentration data and can create plots (e.g., time-series at a point, isohaline lines) and animations (e.g., spreading of a constituent plume over time).

355 L2-2 DEVELOPMENT OF MODEL MESH

Due to time constraints, creating a new model from scratch was not possible. The creation of this model utilized several existing models. The model was developed to accurately predict flow, stage, and salinity within the project area. It included both channel and marsh areas.

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A two-dimensional (2D) model that extended from just west of the City of Houma, Louisiana, to just east of the Barataria Waterway was developed previously for the US Department of Agriculture Natural Resources Conservation Service (NRCS) for its Central-East Terrebonne Freshwater Delivery Project (FTN 2009). In addition, the USACE Engineer Research and Development Center (ERDC) had developed a 2D model of the same area with the addition of the Penchant basin which is located between Bayou du Large and the Lower Atchafalaya River. The ERDC model also extended westward past the Wax Lake Outlet. The portion of the ERDC model between Bayou du Large and the Lower Atchafalaya River was merged with the NRCS model and used as a starting point for the current project.

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The NRCS model represents central and eastern portions of the Terrebonne basin and the entire Barataria basin except for the portion northwest of the US Highway 90 constriction. Relatively shallow marshes and channels dominate both basins. The marshes exhibit little vertical variation in velocity, density and salinity and can be considered 2D. The channels in the Terrebonne basin generally can be considered 1D since no significant vertical or lateral variation occurs hydrodynamically. In the Barataria basin, the main north-south flow path is a series of wide interconnected lakes and generally can be considered 2D with only small vertical variations. The only exception to this characterization is when salt wedges move upstream in deeper channels (e.g., the Houma Navigation Canal), causing a vertically stratified flow regime.

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380

The mesh developed by ERDC in the region bounded by the Lower Atchafalaya River, the GIWW, and Bayou du Large underwent considerable refinement for this study to better represent the topography of the area, based on recent aerial imagery and field observations.

385 The following changes were made to the model mesh geometry:

1. Wherever possible in the Penchant basin, 2D channels were replaced with 1D elements for which cross-section data were available. These cross-sections came from a previous 1D UNET model developed by FTN for the Penchant Basin Hydrologic Restoration Hydrodynamic Modeling. The 1D cross-sections provide a more accurate representation of the channel geometry.
2. Marsh areas that were missing from the ERDC model were added, with considerable detail in some areas in order to represent flows properly that might be lost from the

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395 GIWW to the adjacent marsh under high flow conditions. More resolution in the marsh in
the northern part of the basin was coded for this reason. Since storm surges (i.e., flows
propagating northward from the south) were not to be modeled, marsh areas in the
southern half of the Penchant basin were not coded with as much resolution. Figure L2-1
and Figure L2-2 show the area before and after mesh refinement. Figure L2-3 and Figure
L2-4 show a color-filled contour map that gives an indication of the mesh bathymetry.
400 Areas with no color fill are at elevations below -10 ft.

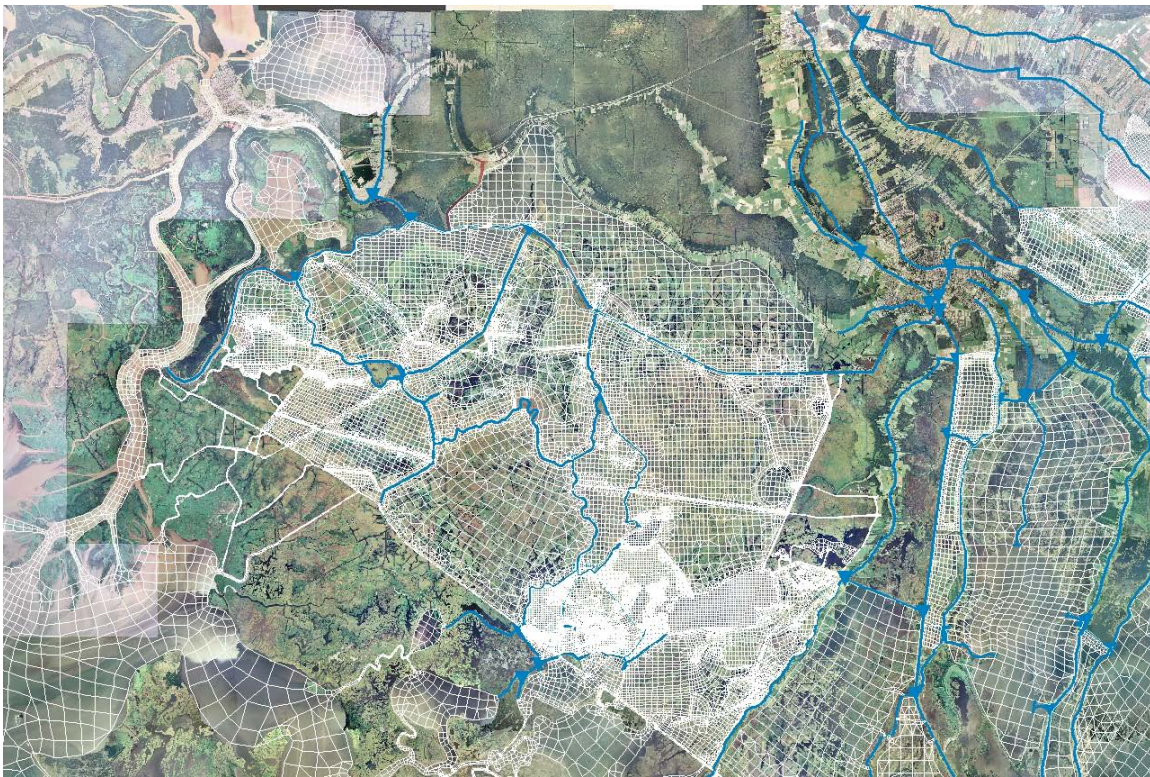
3. The mesh area in the Barataria basin east of the Barataria Waterway was coarsened
significantly to improve model run times. This portion of the mesh was not a pertinent
area of interest so the new resolution was acceptable.
4. Lake Palourde was added to the mesh as a possible area where freshwater introduction
405 would occur.
5. The area bounded by the GIWW and Bayou Black was added to the model to account for
storage under high flow conditions. In addition, major connections between the GIWW
and the marsh areas to the south were added so that potential sinks/sources of water were
represented.
- 410 6. Lateral connections between the 1D channel and 2D marsh were added in the southern
portions of the Houma Navigation Canal (HNC) and Bayou Grand Caillou.
7. Model bathymetry was revised in the Falgout Canal and Lake Boudreaux areas to better
represent the ground geometry in those areas.
- 415 8. Model bathymetry was revised in marshes north of Lake Barre, and marshes between
Grand Bayou Blue and Bayou Lafourche.

The final computational mesh consisted of 273,952 nodes and 103,092 elements. The final
bathymetry is shown in Figure L2-5. Again, areas with no color fill are at elevations below -10
ft.

420



Figure L2-1 - Finite element mesh for Penchant Basin before refinement



425 **Figure L2-2 - Finite element mesh for Penchant Basin after refinement**

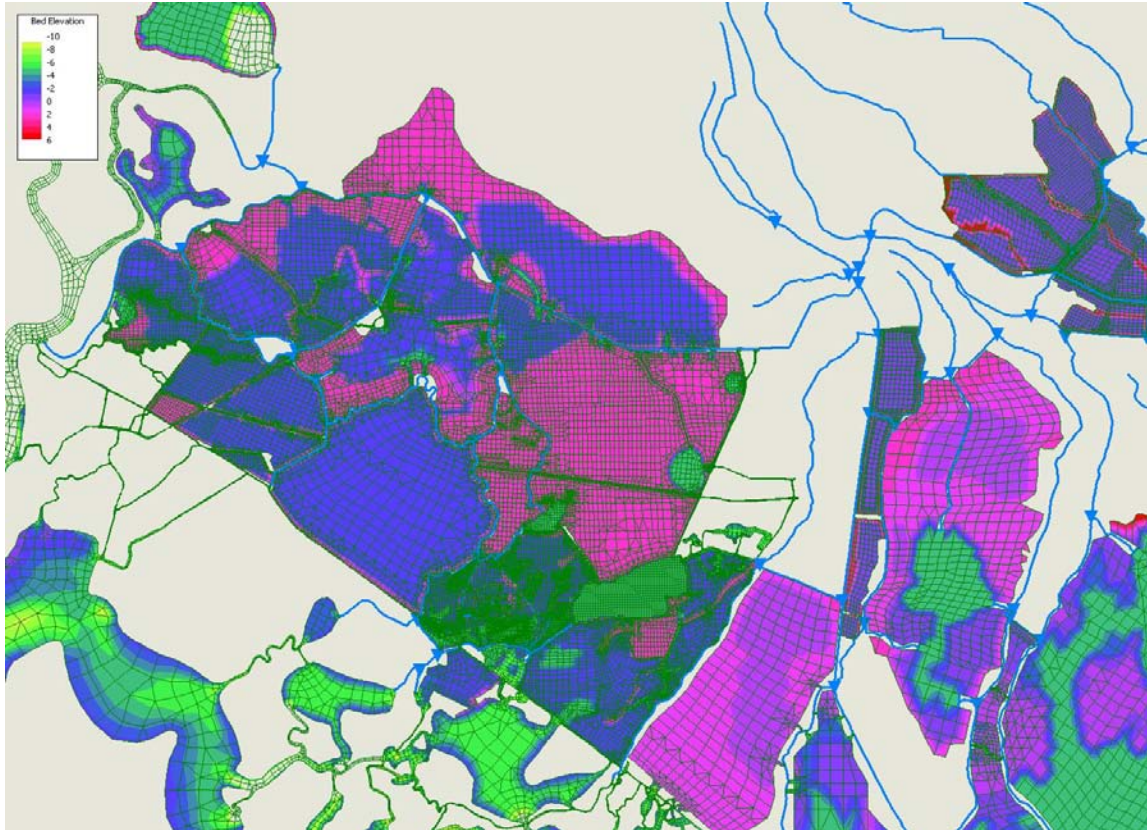
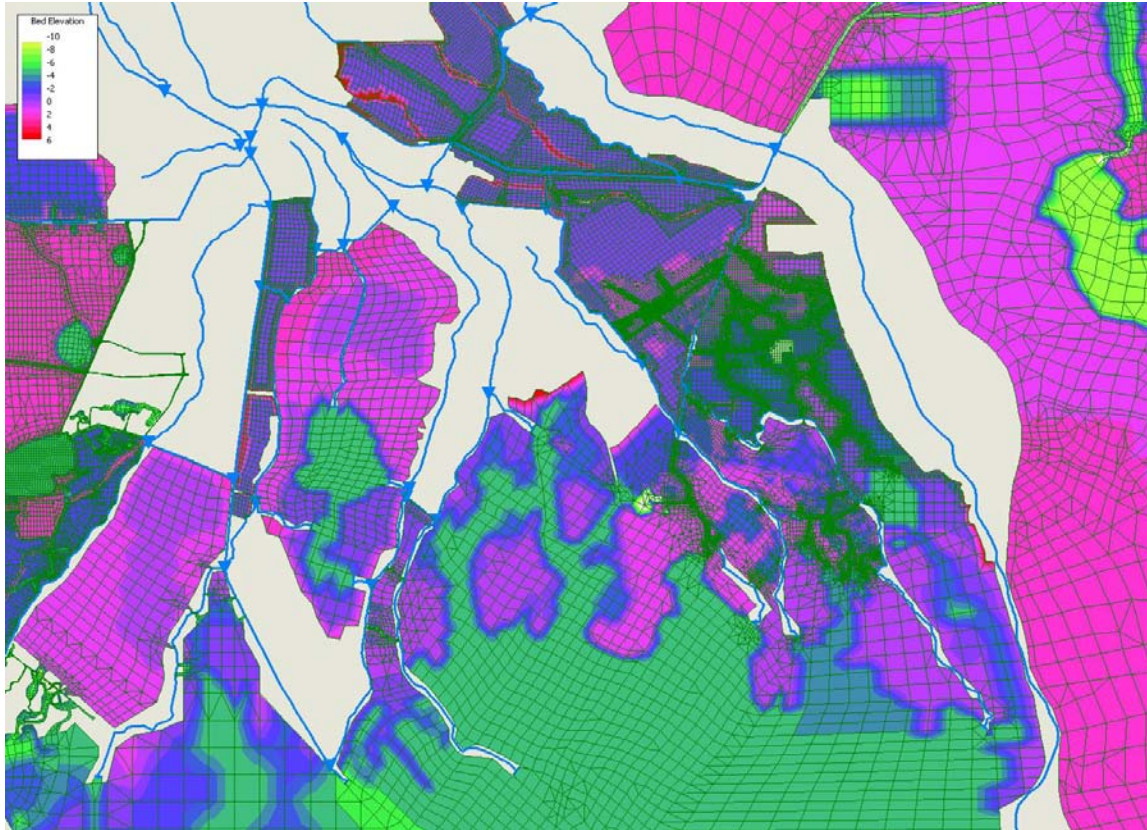


Figure L2-3 - Final Penchant Basin bathymetry.



430 **Figure L2-4 - Final Lake Boudreaux and Grand Bayou Basin bathymetry**

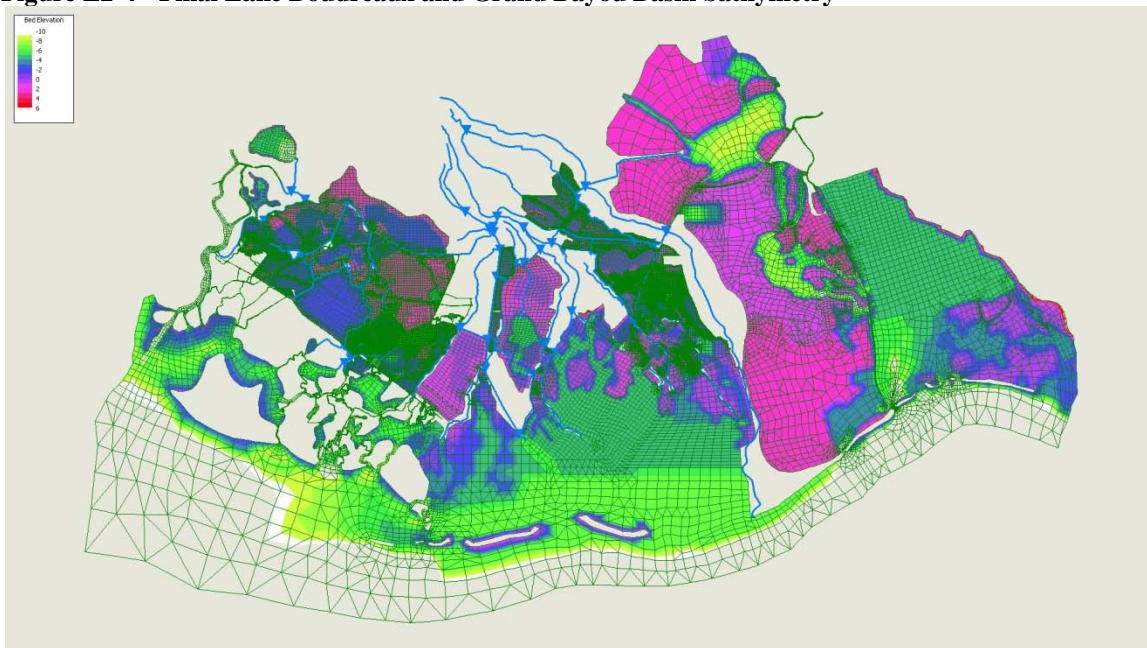


Figure L2-5 - Final Mesh Bathymetry

L2-3 CALIBRATION

435 Model calibration was performed over the eight week period of October and November 2004. This time window was chosen for the amount of available observed data throughout the project area.

440 Continuous hydrologic data to be input as boundary conditions had already been compiled for portions of the existing NRCS model, but because the model was to be extended westward to include to the ERDC model, additional hydrologic data needed to be compiled. Table L2-11 – Data collection stations and their sampling durations and intervals and Figure L2-16 show the locations of all of the hydrologic data that were compiled to be used as boundary conditions or for calibration purposes.

445 Meteorological data used for the NRCS model were applied to the current model without any changes.

L2-3.1 Boundary Conditions

450 The goal for the development of boundary condition data for this modeling project was to use appropriate measured gage data wherever possible. The primary sources of gage data were known in advance. However, more and more sources of data constantly become available on the Internet, along with better tools to visualize and manipulate the data. Therefore, a thorough search for available gage data was conducted. The major potential sources of gage data identified were:

- 455
- USACE,
 - US Geological Survey (USGS),
 - National Oceanic and Atmospheric Administration (NOAA),
 - Louisiana Department of Natural Resources (LDNR), and
 - Louisiana State University Coastal Studies Institute Wave-Current-Surge Information System for Coastal Louisiana (WAVCIS).
- 460

465 The websites of these agencies were consulted to determine which gages were located in or near the study area. Gage coordinates were used to generate a “.kmz” file so that all the gage locations could be viewed easily in geographic software applications such as Google Earth. The “.kmz” file was organized by agency for identification of the gage owners. With all the gage locations displayed on a single map, it was apparent which gages were suitably located to provide boundary condition data for the model.

470 Once the gages were mapped, the various agencies were consulted to determine if gage data were available for the simulation period for this study (October through November of 2004). Lack of available data for the simulation period eliminated some gages from further consideration. Some gage data were available to download from the Internet, while other data had to be requested from the appropriate agency. The data were supplied referenced to a variety of time zones and vertical datums, depending upon the agency.

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After the available data for the simulation period had been collected, it was copied into a spreadsheet for manipulation. The time zone selected for this modeling project was Central Standard Time (CST). Some data were provided in Coordinated Universal Time (UTC) time and some data were provided in local time (for this time period, a combination of Central Daylight Time and Central Standard Time). Appropriate time shifts were applied to convert all the data to
480 CST.

The selected vertical datum for this modeling study is North American Vertical Datum of 1988 (NAVD 88). It was necessary to convert all water surface elevation data to NAVD 88. This
485 posed a problem, especially for the tidal gage data.

The mesh latitude in the RMA-2 model was set to zero. The latitude specification drives the Coriolis effect for 2D elements in the model. If the latitude is set to zero, there is no Coriolis effect in the model. The Coriolis effect is strongest in high latitudes and high velocity
490 environments, neither of which are applicable to this model area. The impact of Coriolis forces can be seen as circulations near the boundary when level water surfaces are input. As with wind, the Coriolis effect may be partially captured by the observed tidal data used for the southern boundary conditions of this model. Therefore, activation of the Coriolis effect by specifying the average latitude of the mesh is unlikely to have a significant impact on the model results, while
495 having the disadvantages of increasing computational overhead and the potential for model divergence.

L2-3.2 Downstream (Tidal) Boundary Conditions

Based on gage locations and availability of data, it was determined that tidal boundary conditions for this project could potentially come from a combination of NOAA and WAVCIS gages. The
500 potential tide gages included the following:

- NOAA 8764311 (Eugene Island)
- NOAA 8762075 (Port Fourchon)
- NOAA 8761724 (Grand Isle)
- 505 • WAVCIS CSI-03
- WAVCIS CSI-05
- WAVCIS CSI-06
- WAVCIS CSI-14

510 The NOAA tide gage data for Grand Isle and Port Fourchon are available for download from the NOAA website referenced to selected tidal datums. For this application, the Mean Lower Low Water (MLLW) tidal datum was selected. The data for Eugene Island are available relative to station datum only. There are typically several NOAA National Geodetic Survey (NGS) benchmarks near each NOAA tide gage. Initially, elevation data for these benchmarks were
515 investigated to determine if a correlation between MLLW and NAVD 88 could be developed. However, due to subsidence in the project area, certified elevation data are not available for all benchmarks. The tidal and orthometric datum information was inconsistent and incomplete, so this approach was abandoned. Instead, the NOAA VDatum software was used to convert MLLW to NAVD 88 at the gage coordinates of the Grand Isle and Port Fourchon tide gages. VDatum is

520 a free software application provided by NOAA for converting tidal datums to orthometric datums. The computed differences between MLLW and NAVD 88 from VDatum were used to offset the elevation values of tide gage data to convert it to NAVD 88.

525 After the tide gage data for the Grand Isle and Port Fourchon gages had been converted to NAVD 88, the data were plotted against each other to examine the relationship between the two gages (Figure L2-6). It was found that the amplitude and phasing of the Grand Isle and Port Fourchon gages were very similar. The Eugene Island gage data, although referenced to an arbitrary station datum, had similar phasing but greater amplitude than Grand Isle and Port Fourchon. Because there was no quantitative method to convert the Eugene Island gage data to NAVD 88, the Eugene Island data were shifted vertically to match the NAVD 88 data from the Grand Isle and Port Fourchon gages (Figure L2-7). The fit of the shifted data was judged qualitatively only, and the same offset was used for the entire simulation period. All of the WAVCIS tide gage data were supplied relative to station datum only. A similar qualitative vertical shift was used to adjust the WAVCIS tide gage data to the Grand Isle and Port Fourchon NAVD 88 data. In this way, all of the applicable tide gage data were converted to a vertical datum that could be described as *approximately* NAVD 88.

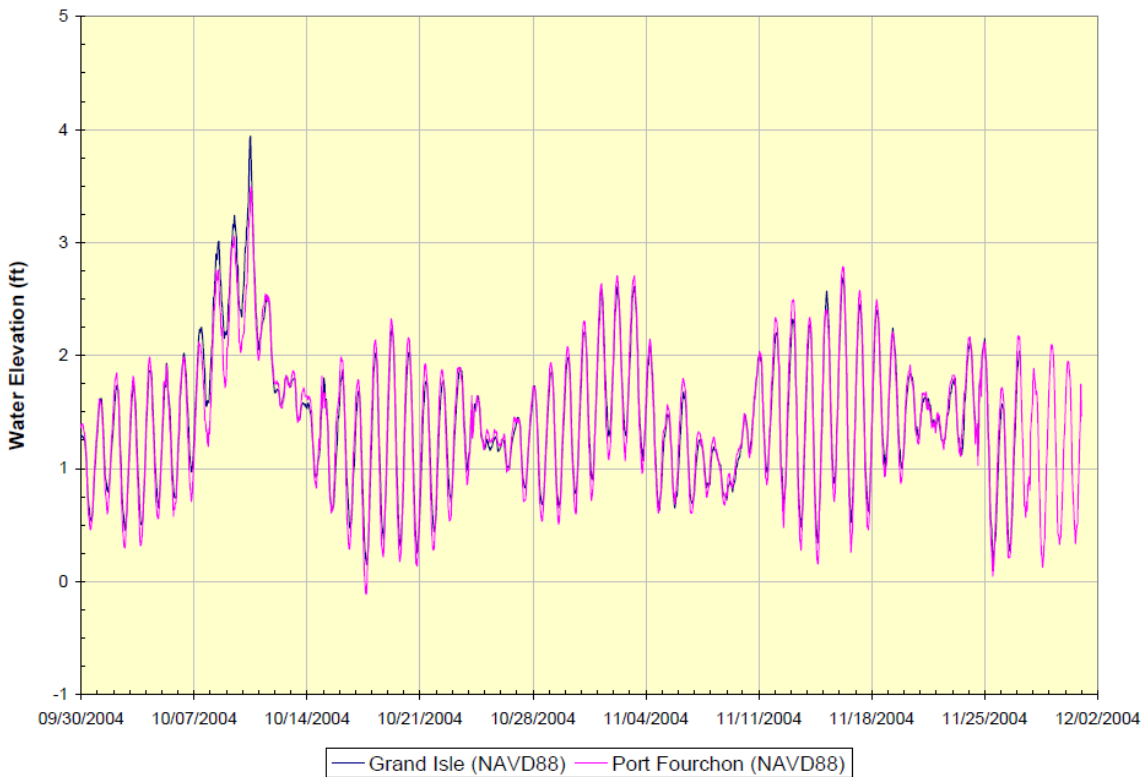


Figure L2-6 - Grand Isle and Port Fourchon tide gage data.

540

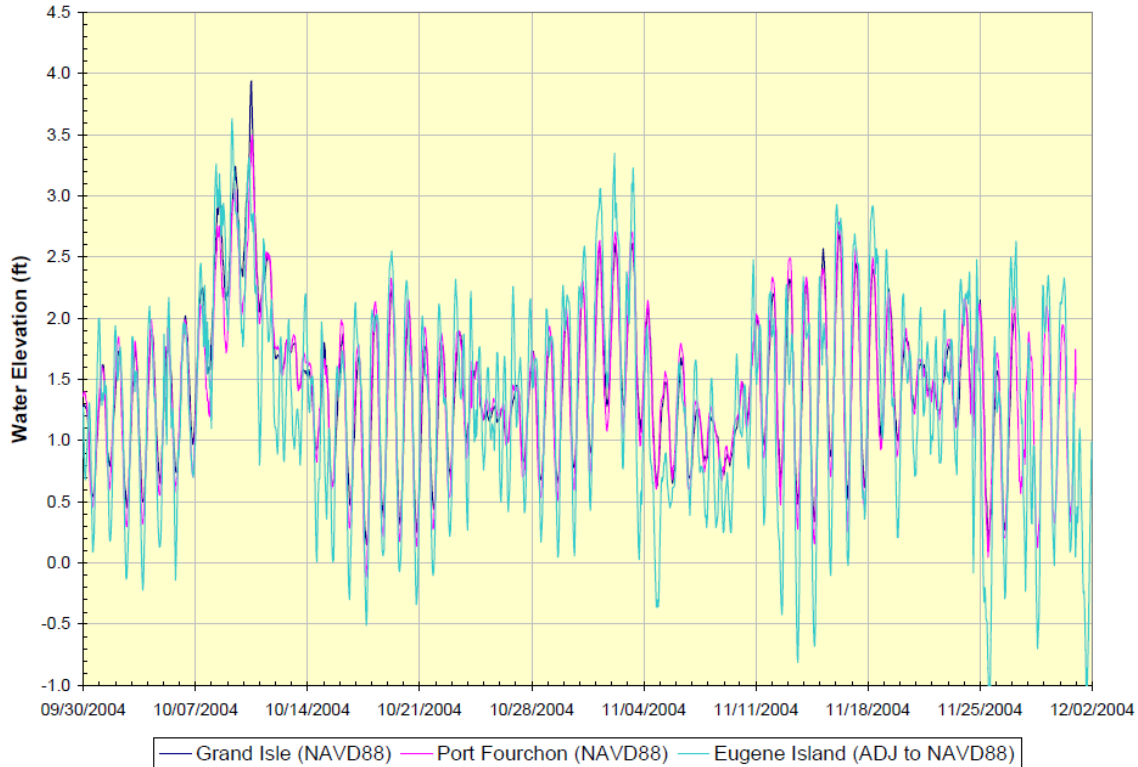


Figure L2-7 - Eugene Island Tide Gage data adjusted to NAVD 88.

545 A master plot of all of the tide gage datum was prepared (Figure L2-8). Due to some anomalous
phasing and/or amplitude and some missing data of the WAVCIS data, it was decided to use the
NOAA gage data for the downstream boundary condition for this project. Three continuity lines
were established across the southern boundary of the mesh. The westernmost continuity line
extended from the western edge of the mesh to the Port Fourchon tide gage location; the
boundary condition along this line was a linear interpolation between the Eugene Island tide gage
550 data at the western end and Port Fourchon tide gage data at the eastern end. The middle
continuity line extended from the Port Fourchon tide gage to the Grand Isle tide gage; the
boundary condition along this line was a linear interpolation between the two tide gages. The
eastern continuity line extended from the Grand Isle tide gage to the eastern edge of the mesh;
the boundary condition for this line was the Grand Isle tide gage data (no interpolation was
555 performed for this continuity line because no suitable tide gage was found east of Grand Isle).

Boundary conditions for RMA-11 calibration runs were taken from USGS 291929089562600
Barataria Bay near Grand Terre Island, LA - Salinity Gage, and LUMCON Tambour Bay
Salinity Gage.

560

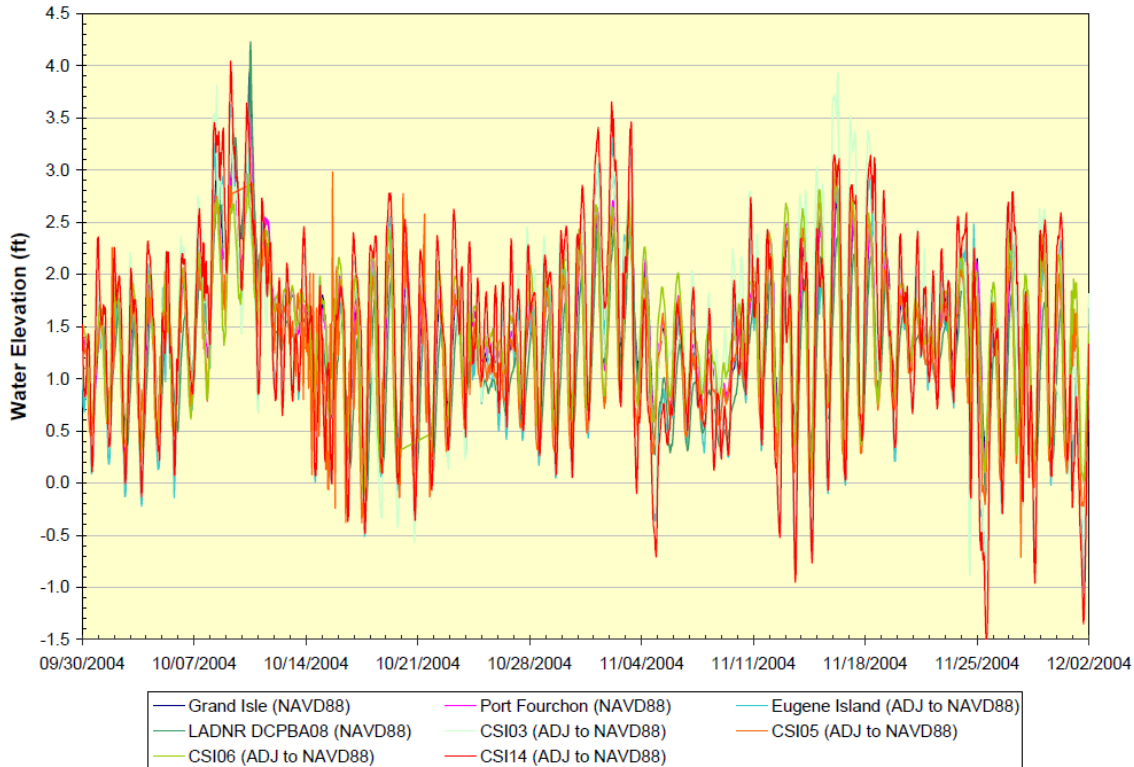


Figure L2-8 - All Gulf of Mexico tide gage data

L2-3.3 Upstream Boundary Conditions

565 In the model, upstream boundary condition data were developed for the upstream ends of major channel reaches, including Bayou Lafourche at Thibodaux, Lower Atchafalaya River at Morgan City, Bayou Boeuf at Amelia, and GIWW just west of the Lower Atchafalaya River. Data from the following USGS gages were used:

- 07381000 - Bayou Lafourche at Thibodaux, Louisiana
- 570 • 07381600 - Lower Atchafalaya River at Morgan City, Louisiana
- 073814675 - Bayou Boeuf at Amelia, Louisiana
- 073816202 - GIWW at RM 103 South of Morgan City, Louisiana
- 073816503 - Bayou Penchant South of Morgan City, Louisiana

575 Bayou Lafourche at Thibodaux is a flow boundary in the model. Flow data from USGS gage 07381000 were used for the boundary condition at this location.

580 Stage boundary data were acquired for Lower Atchafalaya River at Morgan City, Bayou Boeuf at Amelia, and GIWW River Mile (RM) 103 (just west of the Lower Atchafalaya River). USGS provided the stage data at these locations referenced to NAVD 88, except for Lower Atchafalaya River at Morgan City, for which an offset was provided to convert the data to NAVD 88. Some data were missing during the simulation period for the gage at GIWW RM 103. Because there are several gages in close proximity to GIWW RM 103, it was decided to attempt a multivariable regression to fill in the missing data. Data used in the regression analysis included the NOAA

585 tide gage at Eugene Island and the USGS gages at Lower Atchafalaya River at Morgan City, Bayou Boeuf at Amelia, and Bayou Penchant South of Morgan City. An excellent statistical correlation was found for this regression, with a multivariable R^2 value of 0.990 (Figure L2-9). This relationship was able to predict observed stage values at GIWW RM 103 with a high degree of accuracy. The equation is:

590

Equation L2-1 - Statistical relationship used to predict missing GIWW RM 103 stages

$$GIWW_{pred} = 0.773LAR_{obs} - 0.533BB_{obs} + 0.668BP_{obs} + 0.065EI_{obs} - 0.180$$

Where :

$GIWW_{pred}$ = predicted stage at GIWW RM 103, ft NAVD 88

LAR_{obs} = observed stage at Lower Atchafalaya River at Morgan City (USGS07381600), ft NAVD 88

BB_{obs} = observed stage at Bayou Boeuf at Amelia (USGS 073814675), ft NAVD 88

BP_{obs} = observed stage at Bayou Penchant South of Morgan City (USGS073816503), ft NAVD 88

EI_{obs} = observed Eugene Island tide gage (NOAA 8764311), ft NAVD 88

595 Because the missing data were from a period that looked similar to that used to develop the regression equation, it was deemed appropriate to fill in missing data at the GIWW RM 103 using the regression equation. It should be noted that this relationship was developed using data from the time period of September 29, 2004, to December 1, 2004, and may have limited applicability outside of this time period.

600

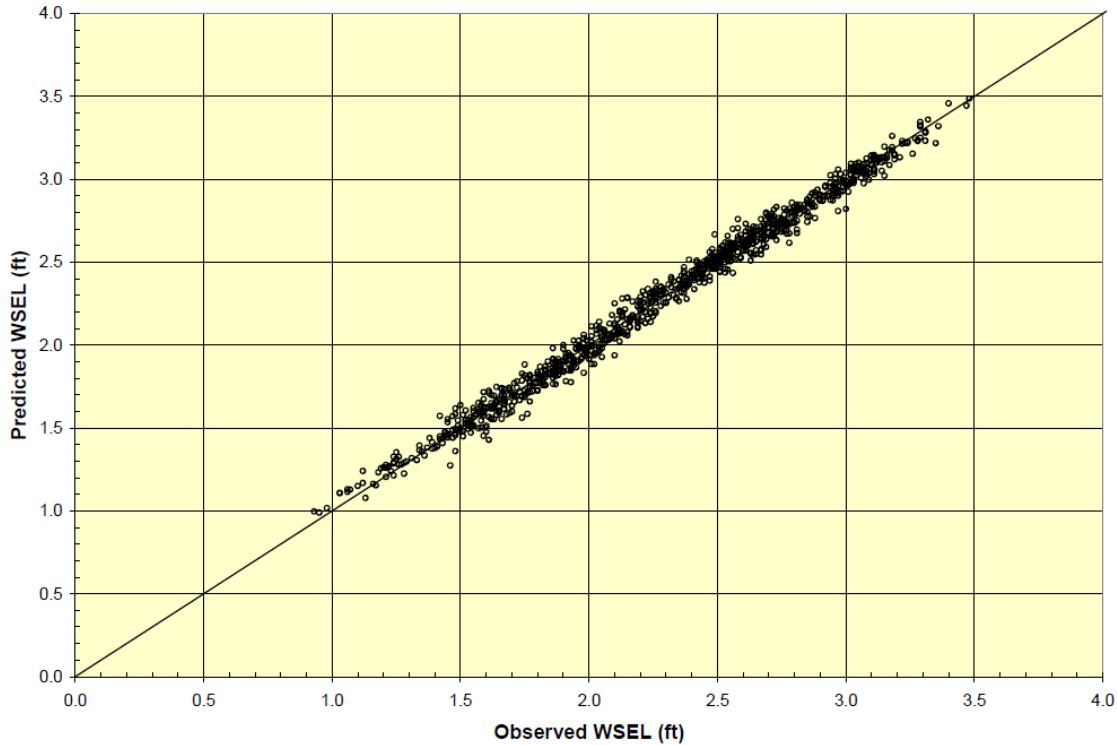


Figure L2-9 - Comparison of observed and predicted water surface elevation data, GIWW at RM 103.

605 The stage data for the gage at Bayou Boeuf at Amelia were applied to the model at the northern end of Lake Palourde. The gage is actually on Bayou Boeuf just south of Lake Palourde, but there is no major hydrologic influence between Lake Palourde and the gage, so the application of the gage data to Lake Palourde was deemed appropriate. Figure L2-17 shows the locations of the selected boundary condition gages.

610 At channels in the model without a major source of flow from upstream (Bayou Cutoff/Folse, Bayou Terrebonne, Ouiski Bayou, Little Bayou Black, Bayou Chauvin and Bayou Grand Caillou), a steady-state flow boundary condition of 1 cubic foot per second (cfs) was used.

615 For all upstream boundaries, the salinity concentration of the inflow was set to 0.0 ppt for all runs.

Daily rainfall data were obtained from the Louisiana State University (LSU) Agricultural Center in Houma, Louisiana. These data were used as time-varying input to the model.

620 L2-3.4 Calibration Results

Water surface elevations and salinities were calibrated to observed gage data. RMA-2 simulations were run for the entire 8-week period using different combinations of diffusion and resistance coefficients (Manning's "n") in order to best reproduce observed gage data.

625 Default marsh porosity values were used for this analysis. The marsh porosity method in
RMA-2 was developed to improve performance when simulating wetting and drying in a time
varying solution. Previously, element dropout of dry elements had been used, but this created
630 problems such as jagged mesh boundaries and elements dropping out too soon (e.g., when the
depth at a single node of the element fell below the specified minimum depth). The marsh
porosity method is a means for elements to gradually transition between wet and dry states.
Conceptually, the method integrates surface water flow and subsurface flow. When the water
surface elevation falls below the ground surface, the flow is assumed to be in the porous zone. In
the model, there is a transition range between free surface flow and porous zone flow. In
635 concept, this transition range can represent small channels in the marsh which are below the
scale of discretization. In the transition range, the depth decreases more slowly than the water
surface elevation, so the “effective” bottom elevation of the node moves down as the depth falls.
The required inputs for marsh porosity are the value of this bottom elevation shift (field AC1 on
the MP card), the depth range over which the section fully reduces to the porous zone (field AC2
640 on the MP card), and the porosity of the porous zone (field AC3 on the MP card). Optionally, an
absolute minimum bottom elevation can be specified that overrides the bottom elevation shift
defined by AC1 (field AC4 on the MP card). The default values implemented in RMA-2 are 4.5
ft for AC1, 2.0 ft for AC2, and 0.04 for AC3.

645 According to original RMA-2 model developer Dr. Ian King, the default values were designed
for true marsh applications in a broad range of conditions, and should be applicable to this model
area. In permanently flooded areas, the marsh values have no effect. While the marsh porosity
parameters have physical definitions, there is no way to calculate their appropriate values short
of significant field investigation. The general modeling approach is that if the model results are
650 reasonable and the model is stable over the range of conditions modeled, then the marsh porosity
parameters are appropriate. Therefore, the marsh porosity parameters were not used a calibration
parameter for this study.

655 All of RMA-2 simulations were carried out with a computational time step of 15 minutes, while
the RMA-11 simulations were carried out with a computational time step of 60 minutes.

Table L2-12 shows the final diffusion and Manning’s “n” values for each material type for the
best calibration run.

660 Of all the locations where computed water surface elevations were compared to observed water
levels, the poorest matches were at Bayou Lafourche north of Company Canal (Station 1), Bayou
Lafourche south of the GIWW (Station 5), Bayou Terrebonne southeast of Houma (Station 8),
and Bayou Lafourche at Thibodaux (Station 10). In all of these cases, this may be due to
problems with the datum for the observed gage data. This is indicated by the fact that the
665 computed water surface elevations at other nearby gages match up fairly closely to the observed
gage data. Because the observed gage data show large variations in water levels, when the water
levels should be consistent with each other due to their close proximity to each other, this seems
to indicate a problem with the gage datum. For example, the Bayou Lafourche north of Company
Canal gage (Station 1) shows observed water surface elevations 2 to 3 ft higher than the

670 computed water levels. However, the Company Canal at Highway 1 gage (Station 2) and the Lake Fields gage (Station 3), which are in relatively close proximity to the Bayou Lafourche at Company Canal gage, show much better agreement between computed and observed water levels. This seems to indicate that the Bayou Lafourche at Company Canal gage might have datum problems.

675 The Bayou Lafourche south of the GIWW gage shows poor calibration, but the nearby gages of GIWW east and west of the Bayou Lafourche (Stations 4 and 6, respectively) both show much better agreement. The Bayou Terrebonne southeast of Houma gage shows very similar trends, amplitudes and phasing, only appears to be shifted down approximately a foot. The Bayou Petit
680 Caillou at Cocodrie gage (Station 16) is in fairly close proximity to Bayou Terrebonne, so this seems to indicate a problem with the Bayou Terrebonne gage datum.

In the Penchant basin, there are only two gages available for calibration – GIWW at Minors Canal (Station 18) and Bayou Penchant east of Avoca Island Cutoff (Station 19).

685 The water surface elevation calibration at these two locations is very good.

The water level calibration results (Figure L2-22 through Figure L2-38) show that the water surface elevation calibration is still valid for the Atchafalaya Conveyance Modeling. Root mean squared error values were computed for all calibration stations that had observed data during the
690 calibration period. These values are presented in Table L2-1 below.

Table L2-1 - Root mean square error values for water surface calibration

Station	RMSE ft
BLF N of Company Canal	2.07
Company Canal @ Hwy 1	0.62
Lake Fields	0.63
GIWW E of BLF	0.77
BLF S of GIWW	1.56
GIWW W of BLF	0.23
Sulphur Mine Canal Marsh E of Grand Bayou	0.28
B, Terrebonne SE of Houma	1.03
Bayou Lafourche @ Thibodaux	2.29
Lake Cataouatche	0.73
Lake Salvador	0.29
Barataria Pass E of Grand Isle	0.19
Bayou Petit Caillou @ Cocodrie	0.40
GIWW @ Houma S of B. Terrebonne	0.67
GIWW W of Minors Canal	0.38
Bayou Penchant S of GIWW	0.23

695 In addition to the RMA-2 water surface elevation calibration, an effort was made to calibrate salinity using RMA-11. This proved to be more difficult and the results are indicative. For RMA-11, the salinity data were calibrated by varying dispersion coefficients. As with the previous

700 studies, specific portions of the southern area were assigned different material types to account for the variation in mixing characteristics of the various marsh regions. The same was done with the southern segments of the canals. This allowed higher dispersion coefficients to be set in the southern areas where the primary mechanism of transport is mixing and dispersion. The dispersion coefficients were specified as a scaled parameter for a given element type rather than specified as an absolute value. When the parameter is scaled, the program computes dispersion coefficients based on the size of the element and the velocity magnitude. The final dispersion coefficients for the RMA-11 calibration are shown in Table L2-13.

710 The salinity calibration results (Figure L2-39 through Figure L2-52) show that while the precise values may not be replicated exactly, the trends are simulated accurately. Due to uncertainty in portions of the model using assumed bathymetry, assumed constant/uniform initial conditions, and boundary conditions, the results are expected. While the model may be less accurate in determining the magnitude of changes in salinity, it should be accurate in determining trends, and relative changes (increase or decrease) of salinity from base to future with project conditions.

715 L2-4 ALTERNATIVES MODELING

720 The modeling strategy for alternatives modeling was to complete high and low condition runs for each alternative. The results of these runs were then used to develop a yearly hydrograph using monthly averaged values. Each high and low condition run utilized an 8 week run. Results from the latter four weeks of the runs were averaged and used to develop the yearly hydrograph for benefits analysis. Salinity and stage values were determined using the same procedure.

L2-4.1 Boundary Conditions

725 Since the Atchafalaya River is the source for most freshwater within the project area, the high and low conditions were determined using stage data at Morgan City, LA. 10% and 95% exceedance frequencies were selected as representing the high and low conditions.

730 Stage data were obtained from the USGS gage 073801600. Statistics were calculated on daily stage gage data over the time period of 1988 – 2008. Data excluded from the analysis include a period in 1992 to 1993 when the stage was stuck at +5.73 ft and extreme stages in excess of +15 ft in 1993. The record high stage on this gage is 10.53 ft. Stages representing the 10% and 95% exceedance were computed to be 5.17 and 1.22 ft respectively.

735 Next, four week periods with average stages matching the computed exceedance were selected. The ending dates of the selected periods were 6/29/2008 and 12/23/2005. Boundary conditions were developed for eight week periods ending on the selected dates.

740 Upstream boundary conditions were taken from the gages used for the upstream boundaries during model calibration. The Eugene Island NOAA gage was no longer in service during the time periods for alternatives runs. Data for the western tidal boundary condition were taken from

the NOAA Lawma Amerada Pass (8764227) gage for high runs, and the USACE Atchafalaya Bay Near Eugene Island (88550) gage was used for the low runs.

745 Plots of the boundary conditions used for the high and low runs can be seen in Figure L2-10 through Figure L2-13.

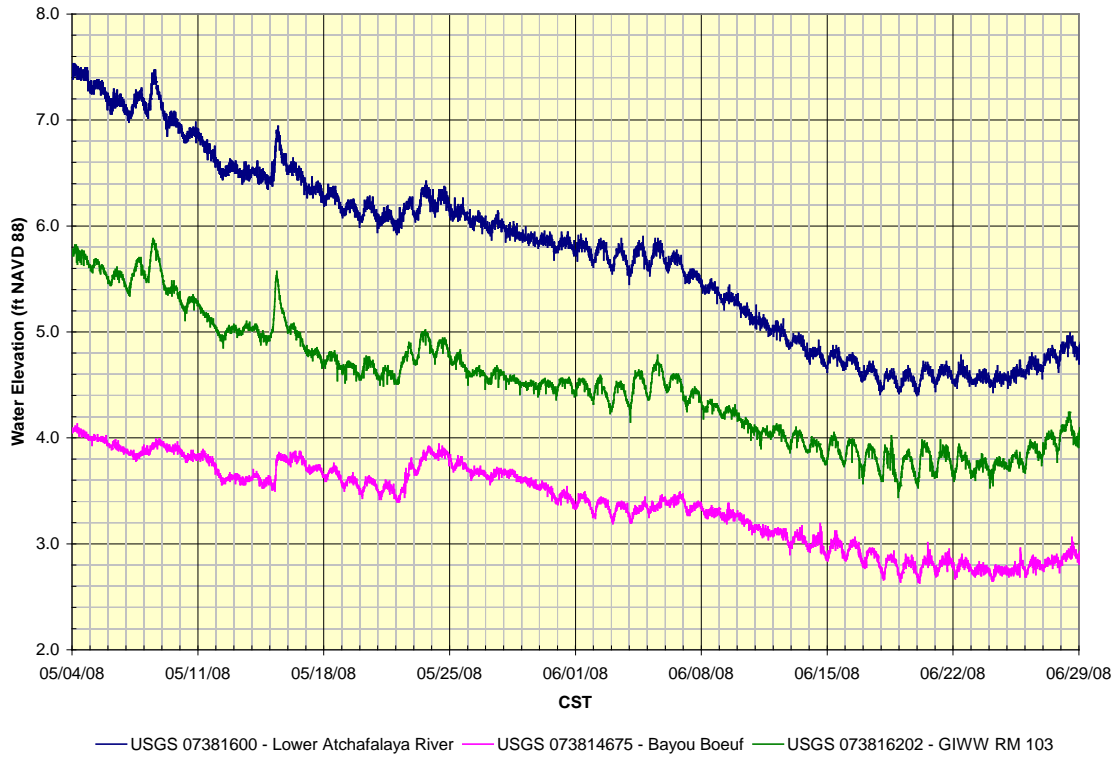
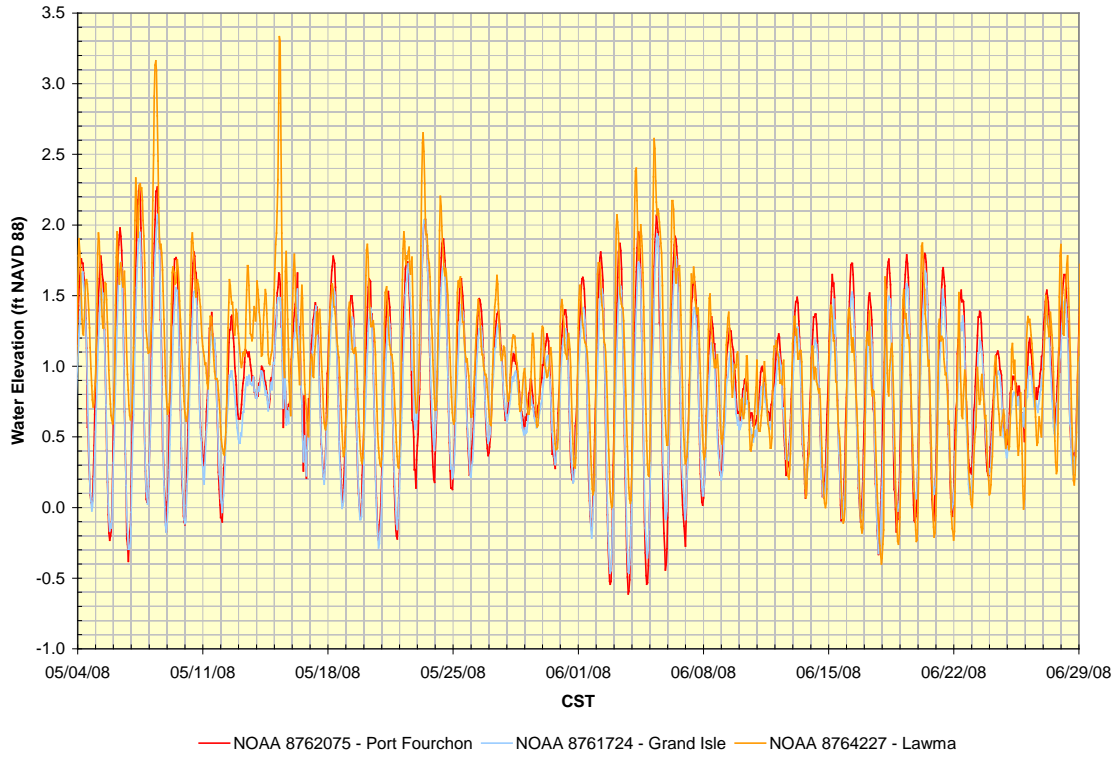


Figure L2-10 - Upstream water surface boundary condition data for high runs



750 **Figure L2-11 - Tidal boundary conditions for high runs**

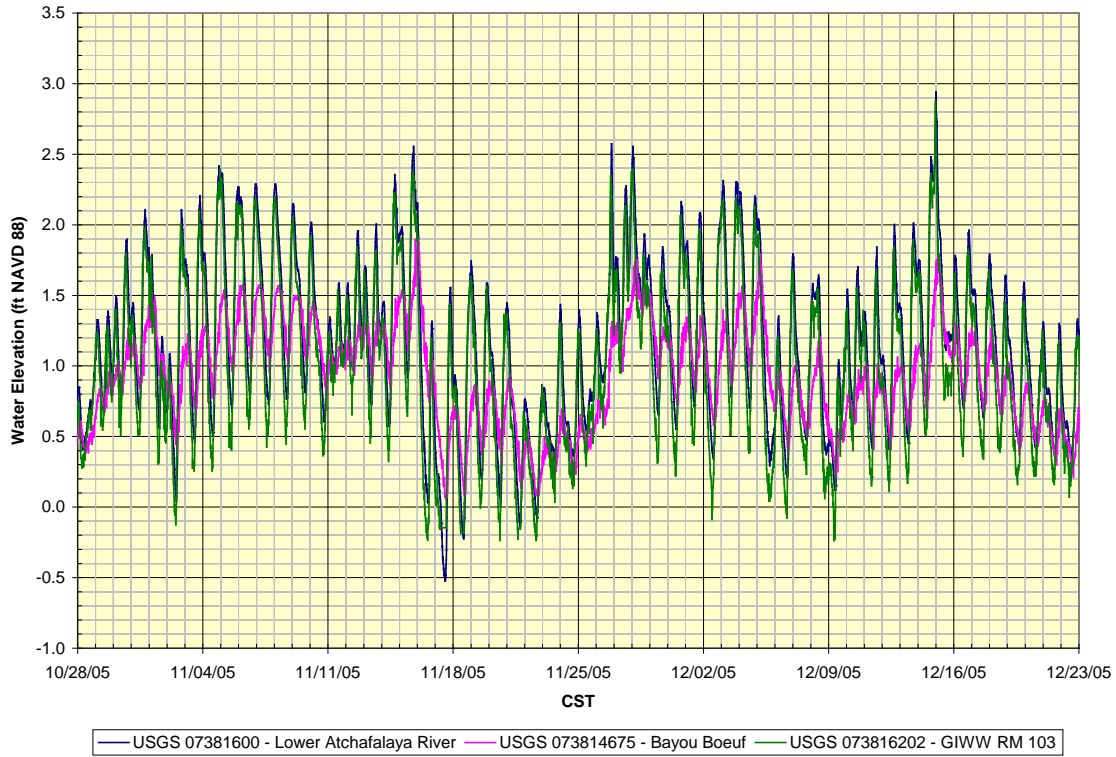
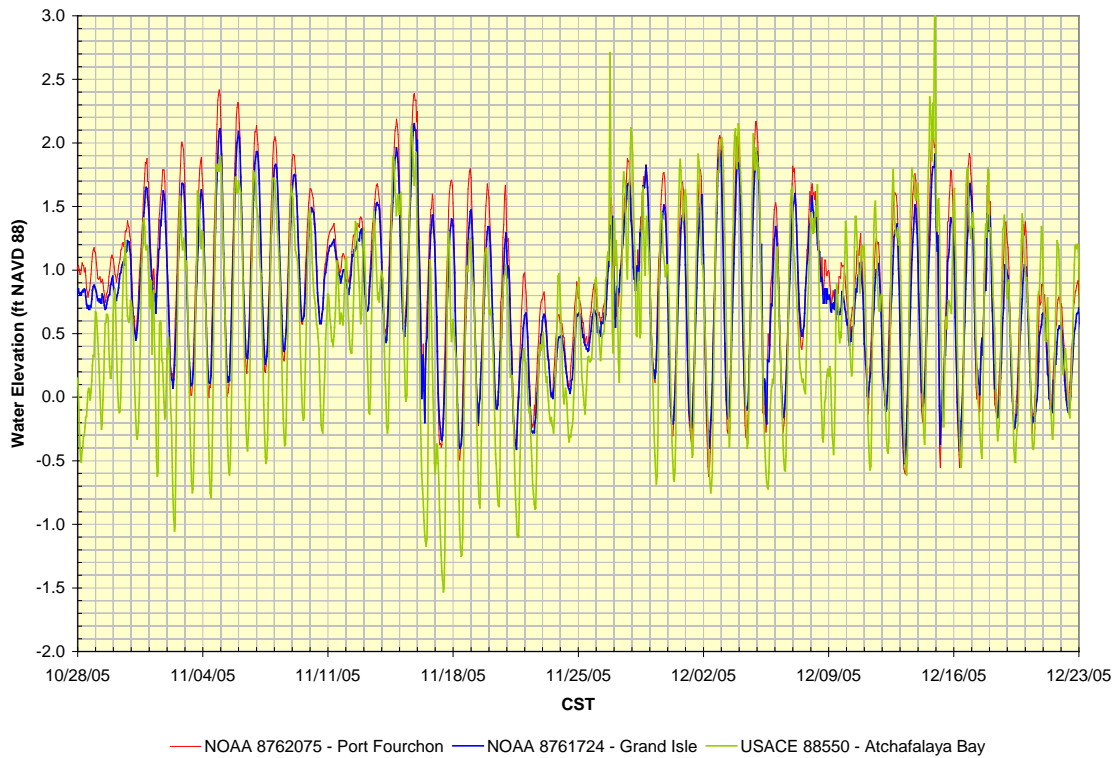


Figure L2-12 - Upstream stage boundary conditions for low runs



755 Figure L2-13 - Downstream boundary conditions for low runs

L2-4.2 Geometry Development

760 Geometry files were developed for the 2015, 2025 and 2065 conditions. Due to the nested nature of the alternatives, the number of files was able to be minimized. The results from these geometries could be combined to compute the ordinates of the yearly hydrographs, salinities and stages. Table L2-2, Table L2-3, and Table L2-2 show the geometry files developed for 2015, 2025, and 2065, respectively.

765 **Table L2-2 - 2015 run geometries**

Geometry	Features	Bayou Boeuf Lock
ex2015	Alt 1	Open
ex2015b	Alt 1	Closed
fo2015	Alt 2	Open
fo2015b	Alt 2	Closed
wf2015	Alt 3	Open
wf2015b	Alt 3	Closed
ef2015	Alt 4	Open
ef2015b	Alt 4	Closed
bf2015	Alt 5	Open
bf2015b	Alt 5	Closed
wo2105	Alt 6	Open
wo2015bw	Alt 6	Closed
wo2015b*	Alt 6	Closed
rp2015	Alt 8	Open
rp2015b	Alt 8	Closed
* Structure WS4 is closed		

Table L2-3 - 2025 run geometries

Geometry	Features	Bayou Boeuf Lock	HNC Lock
ex2025	Alt 1	Open	Open
ex2025c	Alt 1	Open	Closed
ex2025b	Alt 1	Closed	Open
ex2025bc	Alt 1	Closed	Closed
fo2025c	Alt 2	Open	Closed
fo2025bc	Alt 2	Closed	Closed
wf2025c	Alt 3	Open	Closed
wf2025bc	Alt 3	Closed	Closed
ef2025c	Alt 4	Open	Closed
ef2025bc	Alt 4	Closed	Closed
bd2025c	Alt 5	Open	Closed

Geometry	Features	Bayou Boeuf Lock	HNC Lock
bf2025bc	Alt 5	Closed	Closed
wo2025c	Alt 6	Open	Closed
wo2025bwc	Alt 6	Closed	Closed
wo2025bc*	Alt 6	Closed	Closed
rp2025c	Alt 8	Open	Closed
rp2025bc	Alt 8	Closed	Closed
* Structure WS4 is closed in this geometry			

770 **Table L2-4 - 2065 run geometries**

Geometry	Features	Bayou Boeuf Lock	HNC Lock
ex2065	Alt 1	Open	Open
ex2065c	Alt 1	Open	Closed
ex2065b	Alt 1	Closed	Open
ex2065bc	Alt 1	Closed	Closed
fo2065c	Alt 2	Open	Closed
fo2065bc	Alt 2	Closed	Closed
wf2065c	Alt 3	Open	Closed
wf2065bc	Alt 3	Closed	Closed
ef2065c	Alt 4	Open	Closed
ef2065bc	Alt 4	Closed	Closed
bd2065c	Alt 5	Open	Closed
bf2065bc	Alt 5	Closed	Closed
wo2065c	Alt 6	Open	Closed
wo2065bwc	Alt 6	Closed	Closed
wo2065bc*	Alt 6	Closed	Closed
rp2065c	Alt 8	Open	Closed
rp2065bc	Alt 8	Closed	Closed
* Structure WS4 is closed in this geometry			

775

L2-4.2.1 Features

Alternative features were added to the mesh to represent each alternative. A variety of methods were used to add the features. Generally the features fit in to a hand full of categories of mesh edit types. These are dredged channels, structures, or elevation changes.

Dredged channels were generally added by modifying existing 1D channels or by adding new 1D channels. WD2, ED6 and a portion of ED2 were added as 2D elements due to their location in the mesh.

All structures were modeled using 1D elements. This resulted in a more stable model because structure coefficients represented total flow through the structure and it eliminated instability due to velocity vectors that are not perpendicular to the structure face.

Structures were modeled using three types of structures available in the RMA models. With Type 3 structures, flow is an irreversible function of head loss across the structure (see Equation L2-2), for example a culvert with a flap gate. Type 4 structures, weirs, compute flow as a function of water surface elevation using Equation L2-3 . Additionally, weir crest information was added to the model to allow for submergence of Type 4 structures. For type 5 structures, head loss is a function of flow computed with Equation L2-4.

Coefficient values used for each feature are presented in Table L2-5. Structure types 3 and 5 were used for culverts and type 4 was used for weir structures. Coefficients for type 3 and type 5 structures were determined using the orifice equation with a coefficient of discharge of 0.8. This equation was used for all culvert structures since the elevation of the top of the openings was set at or below the water level. The orifice equation was solved for the H term for type 5 structures, so that the exponent would be greater than 1 resulting in greater model stability. The coefficients needed to represent total flow through the structure, and therefore incorporate the geometry of the structure.

Equation L2-2 – RMA Type 3 Structure
810
$$Q = AJ1 + BJ1 * (HN1 - HN2 - CJ1)^{GAM1}$$

Equation L2-3 – RMA Type 4 Structure
$$Q = AJ1 + BJ1 * (HN1 - CJ1)^{GAM1}$$

815

Equation L2-4 – RMA Type 5 Structure

$$HN1 - HN2 = AJ1 + BJ1 * (Q)^{GAM1}$$

Where : *HN1 = Head upstream*

HN2 = Head downstream

AJ1 = Coefficient

BJ1 = Coefficient

CJ1 = Coefficient

GAM1 = Exponent

820

Equation L2-5 - Coefficient BJ1 for Type 3 Structure

$$BJ1 = CAn\sqrt{2g}$$

Equation L2-6 - Coefficient BJ1 for Type 4 Structure

$$BJ1 = \frac{1}{2g(CAn)^2}$$

Where : *C = 0.8*

A = Area of culvert

n = Number of boxes

g = 32.2 ^{ft}/_{s²}

825

Table L2-5 - Structure coefficients for RMA 2 modeling

Feature	Structure Type	Coefficient *	
		BJ1	GAM1
EC2	5	1.55E-06	2.0
EC3	3	16.05	0.5
EC6	3	32.87	0.5
EC7	5	9.26E-08	2.0
EP7	4	52.00	1.5
CC3	5	6.74E-08	2.0
CC4	5	6.74E-08	2.0
CC13	5	6.74E-08	2.0
CL1	5	9.70E-08	2.0
CS1	5	6.74E-08	2.0
WS4	5	1.33E-08	2.0

* Coefficients AJ1 and CJ1 have a value of 0.0 for all structures

Marsh berms, spoil gaps and terracing were represented by elevation changes in the model. These features were all placed in 2D portions of the mesh, so nodes along the alignment of the feature were set to an appropriate elevation.

830

The one exception to these methods was the combination of CD4, CC1 and CC2. These features were not individually modeled. It was assumed that they would provide the flow area needed to match the cross section upstream and downstream of the constriction. For these features, the constricted cross sections were removed from the model, leaving the sections just upstream and downstream of the constriction to represent the final geometry.

835

L2-4.2.2 Morganza to the Gulf

The proposed Morganza to the Gulf Hurricane (MtoG) storm risk management system is aligned along current hydrologic barriers. Structures associated with the system were sized such that they would not impact current flow patterns. Because of this, the only feature that needed to be added to the model mesh for the 2025 and 2065 conditions was the HNC lock complex, feature CL1. For the lock open condition used for Alternative 1, no change was made to the mesh since the opening through the sector gates is larger than the current channel. The lock closed condition was modeled using a structure in the model with coefficients determined using the full flow area of the sluice gates located in the lock structure.

840

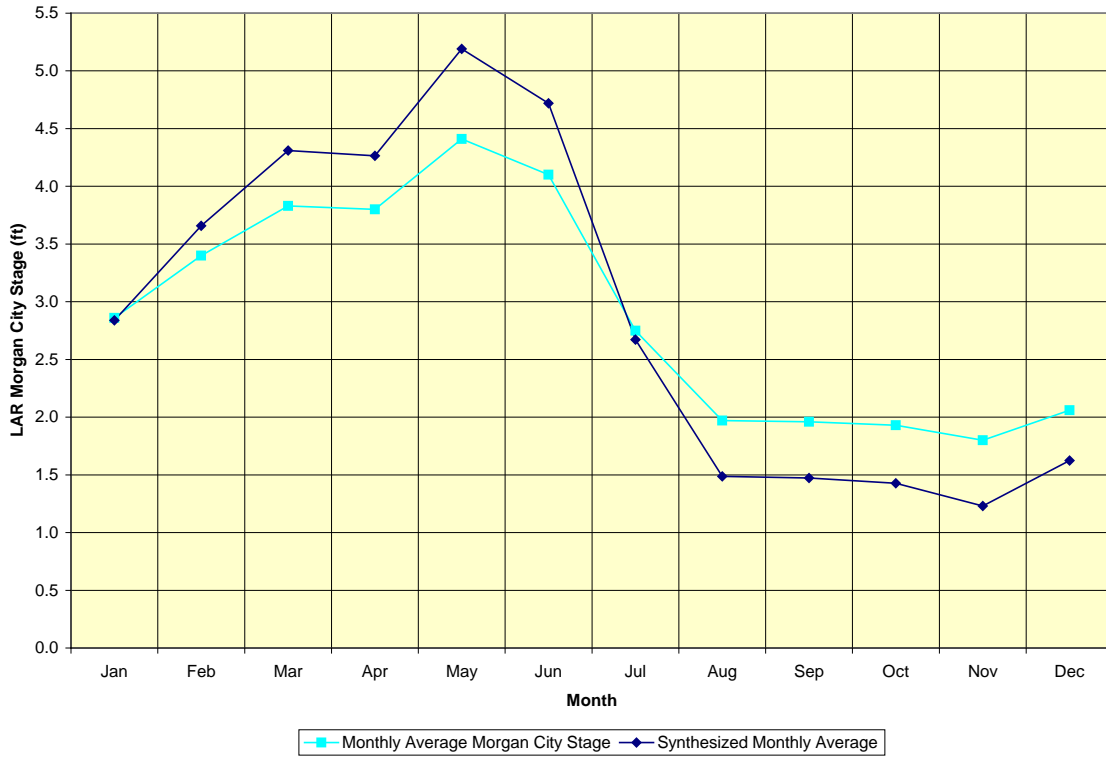
845

L2-4.3 Yearly Hydrograph Development

Monthly average stages for the Lower Atchafalaya at Morgan City, LA were calculated for the period of 1988 -2008 using the HEC-DSSVue program. These values were then scaled such that the maximum and minimum stages matched the 10 and 95% exceedance values computed during development of the boundary conditions for alternatives runs. This preserved the average stage and provided conditions of extreme high and low Atchafalaya stage. The synthesized monthly average stage hydrograph is presented in Figure L2-14. Values were calculated for each month representing the fraction of the difference between the high and low condition values. These values, presented in Table L2-6, were used to compute values at output locations for each alternative.

850

855



860

Figure L2-14 - Synthesized and computed monthly average stage hydrograph

865 Ordinate values for each location were calculated as the low run value plus a fraction of the range between the high and low values. To account for the closure of WS4 for Alternatives 3, 5 and 6, values from different geometries were used for the high run values for the months of March, April, May, and June. Table L2-7, Table L2-8, and Table L2-9 present the geometries used for the ordinate calculations. For the existing condition in the 2025 and 2065 runs, the closure of the sector gates during the months of October and November was accounted for through the use of the closed geometries for both the high and low runs.

870

Dec	0.10
-----	------

Table L2-6 - Fraction of range used, by month

Month	Fraction
Jan	0.41
Feb	0.61
Mar	0.78
Apr	0.77
May	1.00
Jun	0.88
Jul	0.36
Aug	0.07
Sep	0.06
Oct	0.05
Nov	0.00

875 **Table L2-7 - Geometries used by alternative - 2015**

Alternative	Low Run	High Run	High Run Mar-Jun
1	ex2015	ex2015b	ex2015b
2	fo2015	fo2015b	fo2015b
3	wf2015	wf2015b	fo2015b
4	ef2015	ef2105b	ef2015b
5	bf2015	bf2015b	ef2015b
6	wo2015	wo2015bw	wo2015b
8	rp2015	Rp2051b	Rp2015b

Table L2-8 - Geometries used by alternative - 2025

Alternative	Low Run	High Run	High Run Mar-Jun
1*	ex2025	ex2025b	ex2025bc
2	fo2025c	fo2025bc	fo2025bc
3	wf2025c	wf2025bc	fo2025bc
4	ef2025c	ef2105bc	ef2025bc
5	bf2025c	bf2025bc	ef2025bc
6	wo2025c	wo2025bwc	wo2025bc
7	ex2025c	ex2025bc	ex2025bc
8	rp2025c	rp2025c	rp2025bc
* ex c geometries used for Oct-Nov			

Table L2-9 - Geometries used by alternative - 2065

Alternative	Low Run	High Run	High Run Mar-Jun
1*	ex2065	ex2065b	ex2065b
2	fo2065c	fo2065bc	fo2065bc
3	wf2065c	wf2065bc	fo2065bc
4	ef2065c	ef2105bc	ef2065bc
5	bf2065c	bf2065bc	ef2065bc
6	wo2065c	wo2065bwc	wo2065bc
7	ex2065c	ex2065bc	ex2065bc
8	rp2065c	rp2065bc	rp2065bc
* ex c geometries used for Oct-Nov			

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885

L2-4.4 Sea Level Rise

Uncertainty due to climate change and associated sea level rise was addressed through the application of EC 1165-2-211. This EC requires the consideration of three future rates of sea level change: low, intermediate and high. These rates represent a range of possible sea level changes. The low rate is based on the eustatic rate of relative sea level rise within the study area. The intermediate and high rates utilize National Research Council sea level rise curves. All of these rates are combination of the eustatic subsidence rate and the sea level rise for each scenario, resulting in the relative sea level rise.

895

The procedure in EC 1165-2-211 was used to determine the sea level and subsidence rates used in alternatives modeling. This procedure includes the determination of the local subsidence rate through the use of the regional sea level rise rate and local gage relative sea level rise rates. Sea level rise was computed for each target year of the analysis and each sea level rise scenario.

900

The analysis utilized the average of the Grand Isle and Eugene Island gages for subsidence data. Both of these gages have CO-OPS values for historic sea level trend data. The regional MSL trend for the analysis was determined utilizing the average of the five stations in the vertically stable geologic platform identified in the EC. Since the model was calibrated to a 2004 condition, this was used as the base year for sea level rise and subsidence.

905

Alternatives modeling included the use of the low sea level rise scenario. The mesh was subsided a constant amount as presented in Table L2-10. Stage boundary conditions were then adjusted up by the appropriate sea level rise value. It was assumed that the trends in stage increase for the boundary conditions at GIWW mile 103, LAR at Morgan City, and Lake Palourde would match the sea level rise rate for alternatives modeling.

910

915 Alternative 3 was used for the analysis of the intermediate and high sea level rise
scenarios. The sea level change between the three curves at 2015 was less than 0.05 ft, so
the results from the initial alternatives runs were used for all three scenarios for
Alternative 3. The same held true for the low and intermediate curves in 2025, so no
920 additional runs were completed for the 2025 intermediate scenario. For the high
scenario, the 2065 run was not needed as it had been determined in previous studies that
full marsh collapse would happen before 2065. To analyze Alternative 3, runs for 2065
were completed for the intermediate sea level rise rate and runs for 2025 were completed
for the high sea level rise rate.

925 For runs completed for the intermediate and high sea level rise scenarios on the
recommended plan, it was assumed that the upstream boundary conditions would
increase by the sea level rise amount for the low flow runs. This is due to them being
more tidally influenced during low flow. During the high flow runs, the upstream
boundaries were not increased.

930

Table L2-10 - Summary of Sea Level Rise and Subsidence values used in Alternatives modeling

	Rate		Sea Level Rise from 2004 Sea Level					
			2015		2025		2065	
	mm/yr	ft/century	m	ft	m	ft	m	ft
Low Rate	2.28	0.75	0.025	0.082	0.048	0.157	0.139	0.456
Intermediate (NRC Curve I)	N/A	N/A	0.031	0.101	0.064	0.210	0.243	0.798
High (NRC Curve III)	N/A	N/A	0.071	0.232	0.156	0.512	0.698	2.291
Subsidence	7.165	2.35	0.079	0.259	0.150	0.494	0.437	1.435

L2-4.5 Results

935 Flow, stage, and salinity were output from the model at representative locations. The
locations varied depending on the type of data. Selection of these locations was
coordinated with environmental team members. Flow output locations are shown in
Figure L2-18 with a map key in Table L2-14. Stage output locations are shown in
Figure L2-19 with a map key in Table L2-15. Salinity output locations are shown in
Figure L2-20 with map key in Table L2-16.

940 L2-4.5.1 Flow

Plots and tables of model results are presented in this report. The first set of results are
flow change results. The plots and tables show the model flow results for Alternative 1,
which is the No Action Alternative. Since benefits were computed using change in flow,
this is what is plotted for the remaining Alternatives.

945

The flow plots include the monthly averaged flow values for February, May, and November. These months represent the peak flow through WS4, the peak Atchafalaya River stage, and the minimum Atchafalaya River stage, respectively.

950 There is no flow change between Alternative 1 and Alternative 7 for 2015, since the HNC lock was assumed to be in operation starting in 2025. Since these values would all be zero, there are no plots or table rows for Alternative 7, 2015. The benefits analysis did not use flow data from 2065, so these data are not presented here.

955 See Figure L2-53 through Figure L2-93, and Table L2-17 and Table L2-18 for the flow results.

L2-4.5.2 Water Surface Elevation

960 The next set of results presented in this report is change in water surface elevation. There is one plot for Alternatives 2 through 6 for 2015. These plots show areas where stage changes of 0.1 foot or greater magnitude was computed in the monthly average stage. This plot shows the greatest change and its duration. For example in an area where the stage change was 0.1 foot for 7 months of the year and 0.2 foot for the remaining 5 months, the area would be labeled 0.2 ft for 5 months. The tables that follow the plots will give an indication of lesser impacts and their durations for the remainder of the year.

965 The polygons represented on these maps were drawn utilizing plots of the model output points labeled with the maximum water surface elevation change. The edges of the polygons represent contours of change. Knowledge of hydrologic barriers including natural ridges and levees were used to delineate the edges of some polygons.

970 See Figure L2-97 through Figure L2-101 and Table L2-19 for the stage results.

L2-4.5.3 Salinity

975 The final sets of plots and tables show salinity results. There are two sets of plots for salinity results. The first set shows the change in average annual salinity. The second set shows the maximum change in monthly average salinity. These plots show polygons used during the benefits analysis. Some of these polygons are symbolized using the values from a single model output point. Others utilize the average of several model output points for their value. A reference for the polygon names can be found in Figure L2-21.

980 See Figure L2-103 through Figure L2-124 for average annual salinity changes, Figure L2-126 through Figure L2-144 for maximum monthly salinity changes, and Table L2-20 through Table L2-22 for tabular salinity data.

985 L2-5 MODEL UNCERTAINTY

Several sources of uncertainty exist in this modeling effort. Due to differing rates of subsidence throughout the model area, uncertainty exists in gage datums. A discussion of this issue is located in Section L2-3.4 .

990 The Eugene Island tidal calibration gage was only referenced to a local datum. This gage was shifted by graphically comparing it to nearby tide gages. An incorrect shift would have the most impact on stages and flows in the GIWW and in the Penchant basin. This impact would be largest during low Atchafalaya River stages and would become minimal at higher stages.

995 Since the project area is so large, and time constraints did not allow for a large scale surveying effort, assumptions were made about marsh elevations and lakebed elevations in some areas. These assumptions were made by individuals with a large amount of field experience within the project area.

1000 Combining several existing models has reduced some uncertainty. The calibration of these individual models to varying sets of calibration data has resulted in a more robust overall model.

1005 While all of this uncertainty has not been fully quantified, a sensitivity analysis was performed on model parameters that will provide insight into how much the uncertainty could impact the model results. The conclusions from this effort are discussed in the next section.

1010 L2-6 SENSITIVITY ANALYSIS

A sensitivity analysis was performed on the model. The parameters tested for sensitivity include Manning’s “n”, eddy coefficients, and dispersion coefficients. The summary of the results from the report is included below.

1015 The results of the sensitivity analysis indicate that, in general, both RMA-2 and RMA-11 model results are more sensitive to Manning’s *n* values than the eddy scale factors. The variation in eddy scale factors had very little effect on RMA-2 or RMA-11 model results as compared to the base conditions results. Although the variation in Manning’s *n* values had more impact on the RMA-2 and RMA-11 results, the effects were not deemed significant enough to materially improve the model calibration for water surface elevation or salinity.

1020 As could be expected, the diffusion coefficients had a significant effect on the salinity results. For some calibration stations on Company Canal (stations 1 and 2), the salinity calibration results were significantly improved for the “high” diffusion coefficients. At other stations (e.g., station 12 – Lake Cataouatche and station 13 – Lake Salvador) the salinity calibration results are significantly worse for the “high” diffusion coefficients. These results might imply that some improvement to the salinity calibration might be

possible by selectively increasing the diffusion coefficients for some material types.
1030 However, considerable effort was expended in the base model salinity calibration, and it
was found that the diffusion coefficients selected were optimum for balancing the overall
calibration results. Some of the trends associated with higher and lower diffusion
coefficients had already been observed during the salinity calibration of the base model.
Therefore, it is not believed that the salinity calibration could be materially improved.

1035 L2-7 REFERENCES

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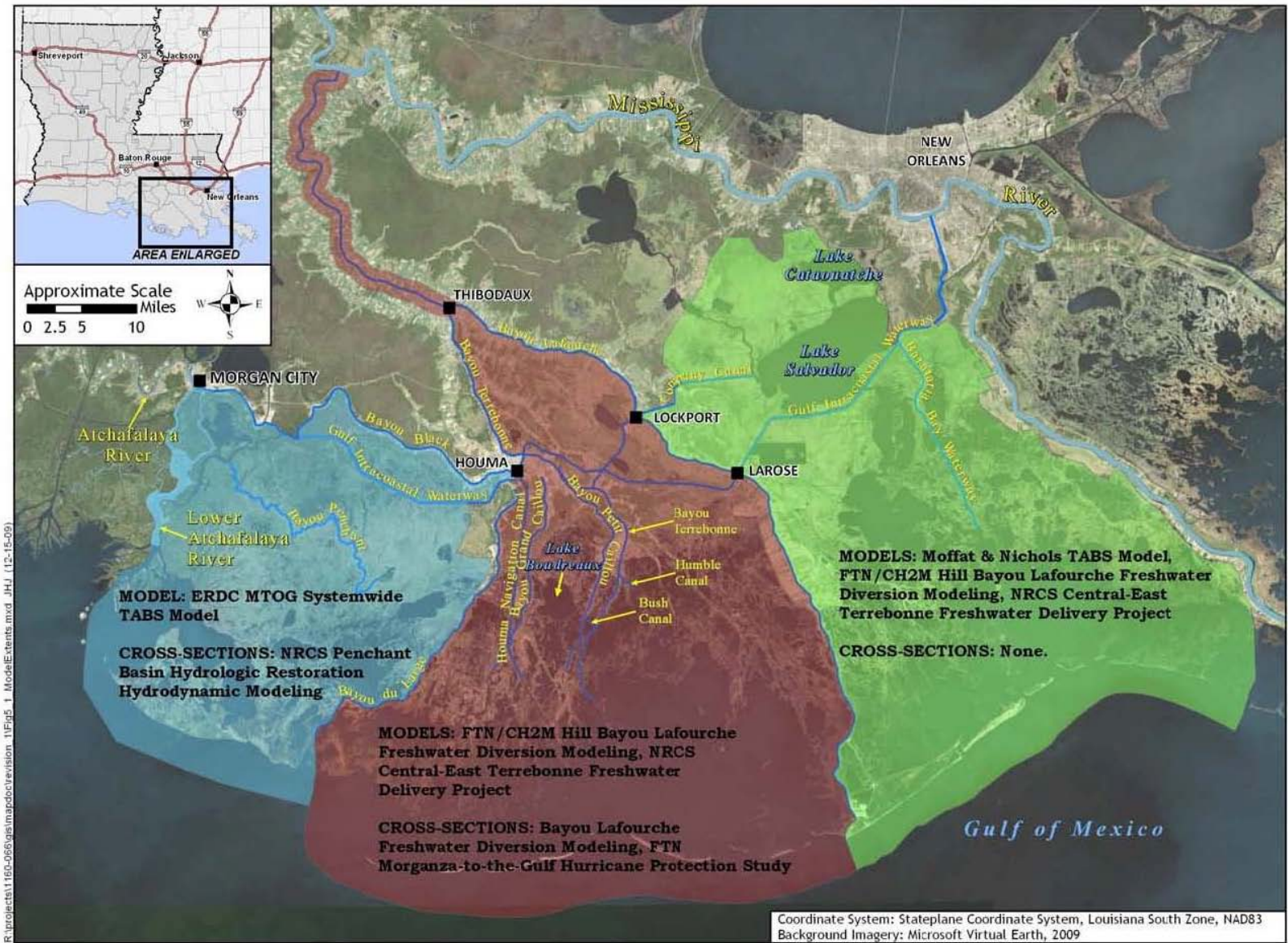
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L2-8 ACRONYMS

1065 CO-OPS – Center for Operational Oceanographic Products and Services
LUMCON – Louisiana Universities Marine Consortium
USGS – United States Geological Survey

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Figure L2-15 - Data sources of various model portions

Table L2-11 – Data collection stations and their sampling durations and intervals

Station No.	Station Description	Start Date	End Date	Sampling Interval	Collected Parameters	Agency / Station Number
1	Bayou Lafourche north of Company Canal	2/19/2004	1/10/2005	15 min	ZSV	CH2M Hill
2	Company Canal at Highway 1 near Lockport	1/1/2004	1/30/2005	15 min	ZS	USGS ID 7381350
3	Lake Fields	2/16/2004	1/10/2005	15 min/1hr	ZS	CH2M Hill
4	GIWW east of Bayou Lafourche at Larose	2/15/2004	1/11/2005	15 min	ZSV	CH2M Hill
5	Bayou Lafourche south of GIWW	2/12/2004	1/11/2005	15 min	ZSV	CH2M Hill
6	GIWW west of Bayou Lafourche at Larose	1/1/2004	1/30/2005	15 min	ZSVQ	USGS ID 7381235
7	Grand Bayou Marsh	2/16/2004	1/10/2005	15 min	ZS	CH2M Hill
8	Bayou Terrebonne southeast of Houma	2/13/2004	1/11/2005	15 min	ZSV	CH2M Hill
9	Bayou Lafourche at Donaldsonville	1/1/2004	10/1/2004	15 min	ZSVQ	USGS ID 7380401
10	Bayou Lafourche at Thibodaux	1/1/2004	1/30/2005	15 min	ZVQ	USGS ID 7381000
11	Davis Pond Freshwater Diversion	1/1/2004	1/30/2005	15 min	ZSVQ	USGS ID 90190400
12	Lake Cataouatche	1/1/2004	1/30/2005	15 min	S	USGS ID 90901217
13	Lake Salvador	1/26/2004	1/30/2005	15 min	ZS	USGS ID 73802375
14	Barataria Pass east of Grand Isle	1/1/2004	1/30/2005	15 min	ZSQ	USGS ID 73802515
15	Houma Navigation Canal at Dulac	1/1/2004	10/1/2004	15 min	ZSV	USGS ID 7381328
16	Bayou Petit Caillou at Cocodrie	1/1/2004	1/31/2005	1 hr	ZSV	LUMCON
17	GIWW at Houma	1/1/2004	1/30/2005	15 min	ZSVQ	USGS ID 7381331
18	GIWW at Minors Canal	2/19/2004	1/25/2005	15 min/1 hr	ZS	USACE
19	Bayou Penchant south of Morgan City, LA	10/1/2004	12/1/2004	15 min	ZQ	USGS ID 73816503
20	Eugene Island	10/1/2004	12/1/2004	1 hr	Z	NOAA 8764311
21	Port Fourchon	10/1/2004	12/1/2004	1 hr	Z	NOAA 8762075
22	Grand Isle	10/1/2004	12/1/2004	1 hr	Z	NOAA 8761724
23	Marsh Island / South of Vermilion Bay	10/1/2004	12/1/2004	1 hr	Z	WAVECIS CSI-03
24	Isle Dernieres / South of Terrebonne Bay	10/1/2004	12/1/2004	1 hr	Z	WAVECIS CSI-05
25	South Timbalier Block 52 / South of Terrebonne Bay	10/1/2004	12/1/2004	1 hr	Z	WAVECIS CSI-06
26	Salt Point / West Cote Blanche Bay	10/1/2004	12/1/2004	1 hr	Z	WAVECIS CSI-14
27	Lower Atchafalaya River at Morgan City, LA	10/1/2004	12/1/2004	15 min	ZQ	USGS ID 7381600
28	Bayou Boeuf at Amelia, LA	10/1/2004	12/1/2004	15 min	ZQ	USGS ID 73814675
29	GIWW at RM 103 south of Morgan City, LA	10/1/2004	12/1/2004	15 min	Z	USGS ID 73816202

Key: Z=Water Surface Elevation, S=Salinity Concentration, V=Velocity, Q=Discharge

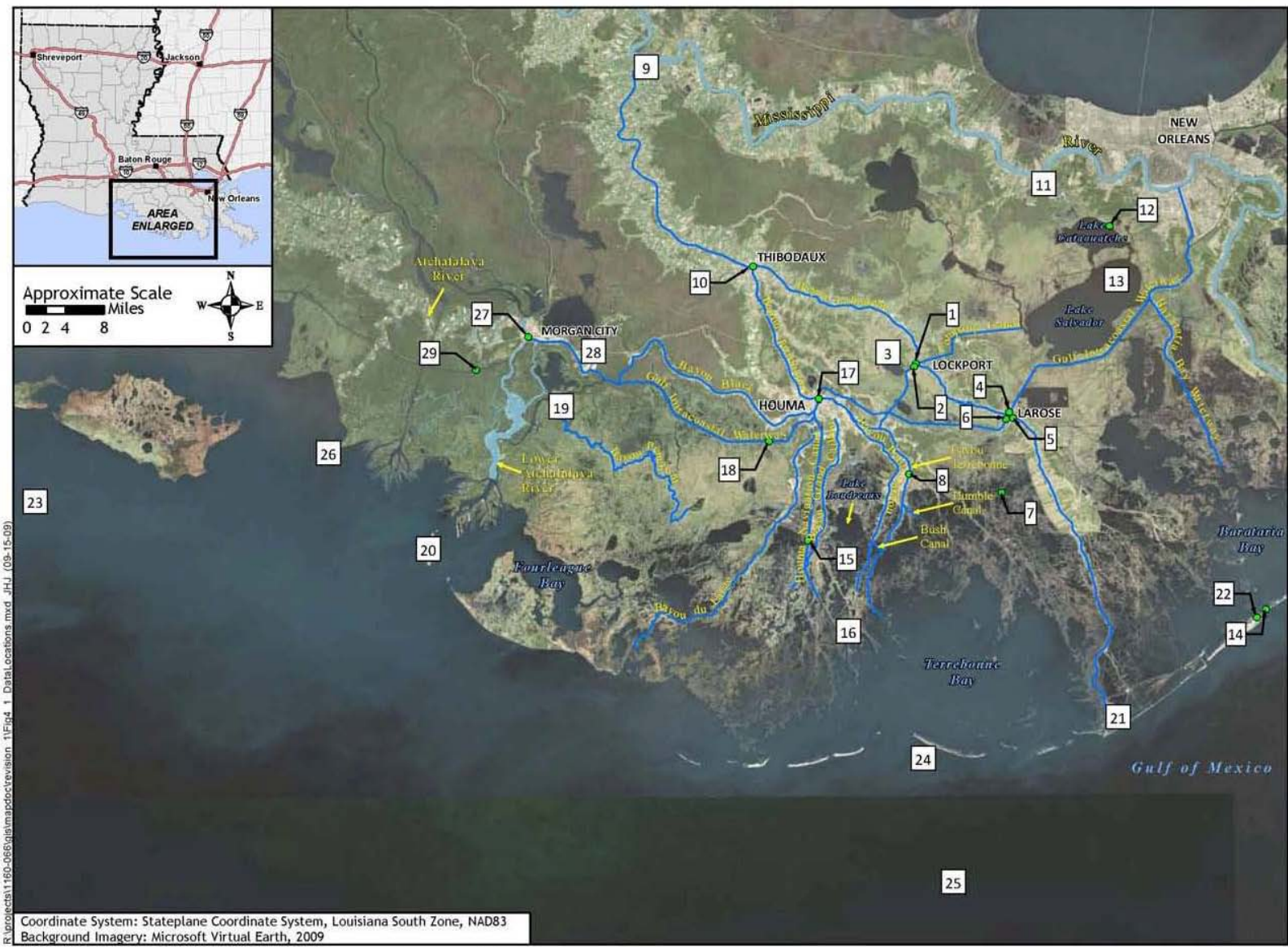


Figure L2-16 - Location of Data Collection Sites

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Figure L2-17 - Boundary Conditions Used in the Model

Table L2-12 - RMA-2 calibration parameter values

Water body	Element Type	EV-x u-vel (lb-sec/ft ²)	EV-y u-vel (lb-sec/ft ²)	EV-x v-vel (lb-sec/ft ²)	EV-y v-vel (lb-sec/ft ²)	Manning's "n"
Bayou Terrebonne	8, 65	20	20	20	20	0.025
Bayou Petit Caillou	12	20	20	20	20	0.025
Bush Canal	13	20	20	20	20	0.045
Boudreaux Canal	25	20	20	20	20	0.045
Penchant Basin 1D channels	29-59, 61	20	20	20	20	0.025
Unsurveyed Pipeline Canal in Penchant Basin	68	20	20	20	20	0.04
GIWW north of Bayou Lafourche	60	20	20	20	20	0.025
South Bayou Grand Caillou	62	20	20	20	20	0.025
South Houma Navigation Canal	63,64	20	20	20	20	0.025
South Bayou Pointe Au Chien	66	20	20	20	20	0.025
Grand Bayou Blue	67	20	20	20	20	0.025
All remaining 1D Channels	1-7, 9-11, 14-24, 26-28	20	20	20	20	0.02
Dummy material types	95, 98, 99, 100, 108, 118, 119					
Marsh areas and marsh areas connected to Gulf	70, 81, 82	Scaled	Scaled	Scaled	Scaled	0.03
Elements by barrier islands	71	Scaled	Scaled	Scaled	Scaled	0.025
Gulf of Mexico	72	Scaled	Scaled	Scaled	Scaled	0.03
Isolated marsh areas with connections to channels	73, 74	Scaled	Scaled	Scaled	Scaled	0.045
Marsh areas connected to Gulf	69, 75-77, 80	Scaled	Scaled	Scaled	Scaled	0.04
Gulf of Mexico	78, 79	Scaled	Scaled	Scaled	Scaled	0.03
GIWW E of BLF/B. Des Allemands	83	Scaled	Scaled	Scaled	Scaled	0.045
Overbanks	84	Scaled	Scaled	Scaled	Scaled	0.025
Canals within Grand Bayou triangle	85	Scaled	Scaled	Scaled	Scaled	0.045
Marsh N of S Pipeline Canal in Grand Bayou	86	Scaled	Scaled	Scaled	Scaled	0.045
Marsh S of S Pipeline Canal in Grand Bayou	87	Scaled	Scaled	Scaled	Scaled	0.045
2D canals S of Cutoff Canal	88	Scaled	Scaled	Scaled	Scaled	0.045
2D canals S of Cutoff Canal & Grand Bayou	89	Scaled	Scaled	Scaled	Scaled	0.035
B. Blue & newly coded 2D canals E and N of Grand	90	Scaled	Scaled	Scaled	Scaled	0.035

Water body	Element Type	EV-x u-vel (lb-sec/ft ²)	EV-y u-vel (lb-sec/ft ²)	EV-x v-vel (lb-sec/ft ²)	EV-y v-vel (lb-sec/ft ²)	Manning's "n"
Bayou						
Marsh elements east of Grand Bayou	91	Scaled	Scaled	Scaled	Scaled	0.04
Open water elements East of Grand Bayou	92	Scaled	Scaled	Scaled	Scaled	0.03
2D elements as extensions to 1D channels in Gulf	93-109	Scaled	Scaled	Scaled	Scaled	0.02
2D Cutoff Canal	110	Scaled	Scaled	Scaled	Scaled	0.045
Atchafalaya marsh (elev -2)	111	Scaled	Scaled	Scaled	Scaled	0.045
Atchafalaya open water (elev -5)	112	Scaled	Scaled	Scaled	Scaled	0.03
Atchafalaya 2D channel (elev -5)	113	Scaled	Scaled	Scaled	Scaled	0.045
Atchafalaya overbanks (elev +2)	114	Scaled	Scaled	Scaled	Scaled	0.025
COE Atch. Open water/2D channels	115	Scaled	Scaled	Scaled	Scaled	0.045
USACE Atch. Morgan City lock	116	Scaled	Scaled	Scaled	Scaled	0.045
USACE lower LAR	115	Scaled	Scaled	Scaled	Scaled	0.045
USACE upper LAR	115	Scaled	Scaled	Scaled	Scaled	0.045
USACE Gulf of Mexico	115	Scaled	Scaled	Scaled	Scaled	0.045
USACE overbanks/Avoca Is. Cutoff	117	Scaled	Scaled	Scaled	Scaled	0.025
Atchafalaya land/healthy marsh (elev +2)	120-129	Scaled	Scaled	Scaled	Scaled	0.045
Lapeyrouse Canal	130	Scaled	Scaled	Scaled	Scaled	0.045

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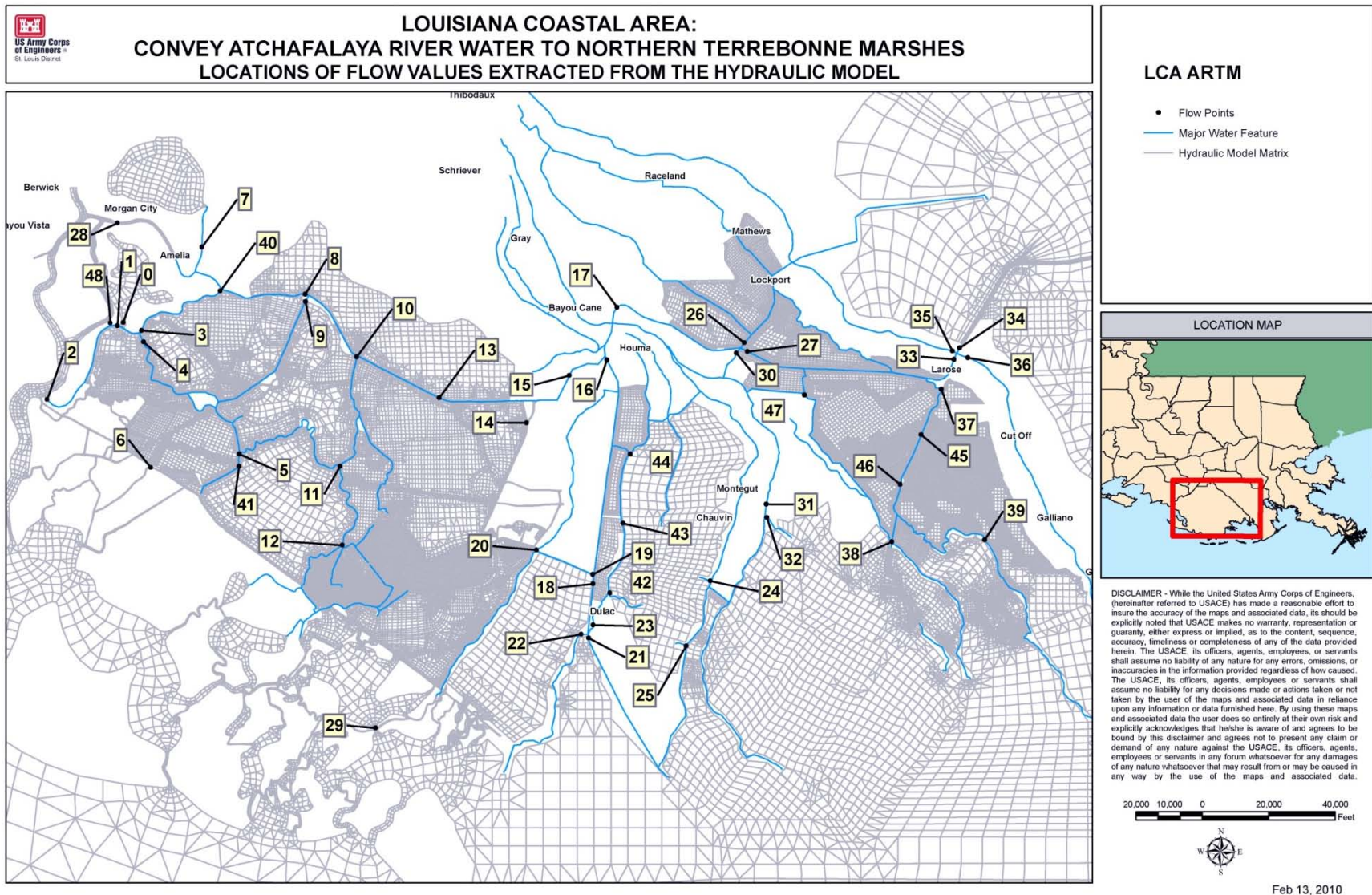
Table L2-13 - RMA-11 Calibration Parameters

Water body	Element Type	Dispersion Scale Factor in X- Direction	Dispersion Scale Factor in Y- Direction	Minimum Dispersion in X- Direction (m ² /s)	Minimum Dispersion in Y- Direction (m ² /s)
Bayou Terrebonne	65	15	15	0.5	0.5
Bayou Petit Caillou	12	50	50	0.5	0.5
Bush Canal	13	1	1	0.5	0.5
Boudreaux Canal	25	25	25	0.5	0.5
Penchant Basin 1D channels	30-59, 61, 68	1	1	0.5	0.5

Water body	Element Type	Dispersion Scale Factor in X-Direction	Dispersion Scale Factor in Y-Direction	Minimum Dispersion in X-Direction (m²/s)	Minimum Dispersion in Y-Direction (m²/s)
GIWW north of Bayou Lafourche	60	1	1	0.5	0.5
South Bayou Grand Caillou	62	25	25	0.5	0.5
South Houma Navigation Canal	63,64	25	25	0.5	0.5
South Bayou Pointe Au Chien	66	25	25	0.5	0.5
Grand Bayou Blue	67	25	25	0.5	0.5
Grand Bayou	6	3	3	0.5	0.5
St. Louis Canal	9	10	10	0.5	0.5
Bayou Pointe au Chien	10	5	5	0.5	0.5
Cutoff Canal south of Bayou Pointe au Chien	28	25	25	0.5	0.5
Bayou Jean Lacroix south of Lake Chien	29	25	25	0.5	0.5
HNC north of Bayou Gran Caillou	17	3	3	0.5	0.5
Bayou Grand Caillou East of HNC	18	10	10	0.5	0.5
Bayou Dulac	24	25	25	0.5	0.5
Robinson Canal	26	10	10	0.5	0.5
All remaining 1D Channels	1-5, 7, 8, 11, 14-16, 19-23, 27	1	1	0.5	0.5
Dummy material types	95, 98, 99, 100, 108, 118, 119				
Marsh areas and marsh areas connected to Gulf	81	100	100	0.5	0.5
Marsh areas connected to Gulf in Barataria Basin	82	2	2	0.5	0.5
Lake Boudreaux Basin and Marshes connected to Gulf	70	1	1	0.5	0.5
Elements by barrier islands	71	500	500	0.5	0.5
Gulf of Mexico	72	10	10	0.5	0.5
Isolated marsh areas with connections to channels	73	1	1	0.5	0.5
Isolated marsh areas with connections to channels	74	5	5	0.5	0.5
Open water elements in Barataria Basin	77	10	10	0.5	0.5
Marsh areas connected to Gulf east of Grand Bayou Blue	69	3	3	0.5	0.5
Marsh areas connected to Gulf	75, 76, 80	1	1	0.5	0.5
Marshes east of Caillou Lake	78	75	75	0.5	0.5

Water body	Element Type	Dispersion Scale Factor in X-Direction	Dispersion Scale Factor in Y-Direction	Minimum Dispersion in X-Direction (m²/s)	Minimum Dispersion in Y-Direction (m²/s)
North of Barrier Islands	79	10	10	0.5	0.5
GIWW E of BLF/B. Des Allemands	83	1	1	0.5	0.5
Overbanks	84	1	1	0.5	0.5
Canals within Grand Bayou triangle	85	25	25	0.5	0.5
Marsh N of S Pipeline Canal in Grand Bayou	86	10	10	0.5	0.5
Marsh S of S Pipeline Canal in Grand Bayou	87	10	10	0.5	0.5
2D canals S of Cutoff Canal	88	10	10	0.5	0.5
2D canals S of Cutoff Canal & Grand Bayou	89	5	5	0.5	0.5
B. Blue & newly coded 2D canals E and N of Grand Bayou	90	25	25	0.5	0.5
Marsh elements east of Grand Bayou	91	3	3	0.5	0.5
Open water elements East of Grand Bayou	92	5	5	0.5	0.5
2D elements as extensions to 1D channels in Gulf	93	50	50	0.5	0.5
	94	10	10	0.5	0.5
	95	100	100	0.5	0.5
	96	50	50	0.5	0.5
	97	50	50	0.5	0.5
	98	100	100	0.5	0.5
	99	100	100	0.5	0.5
	101	100	100	0.5	0.5
	102	100	100	0.5	0.5
	103	100	100	0.5	0.5
	104	100	100	0.5	0.5
	105	10	10	0.5	0.5
106	10	10	0.5	0.5	
107	2	2	0.5	0.5	
109	50	50	0.5	0.5	
2D Cutoff Canal	110	25	25	0.5	0.5
Atchafalaya marsh (elev -2)	111	10	10	0.5	0.5

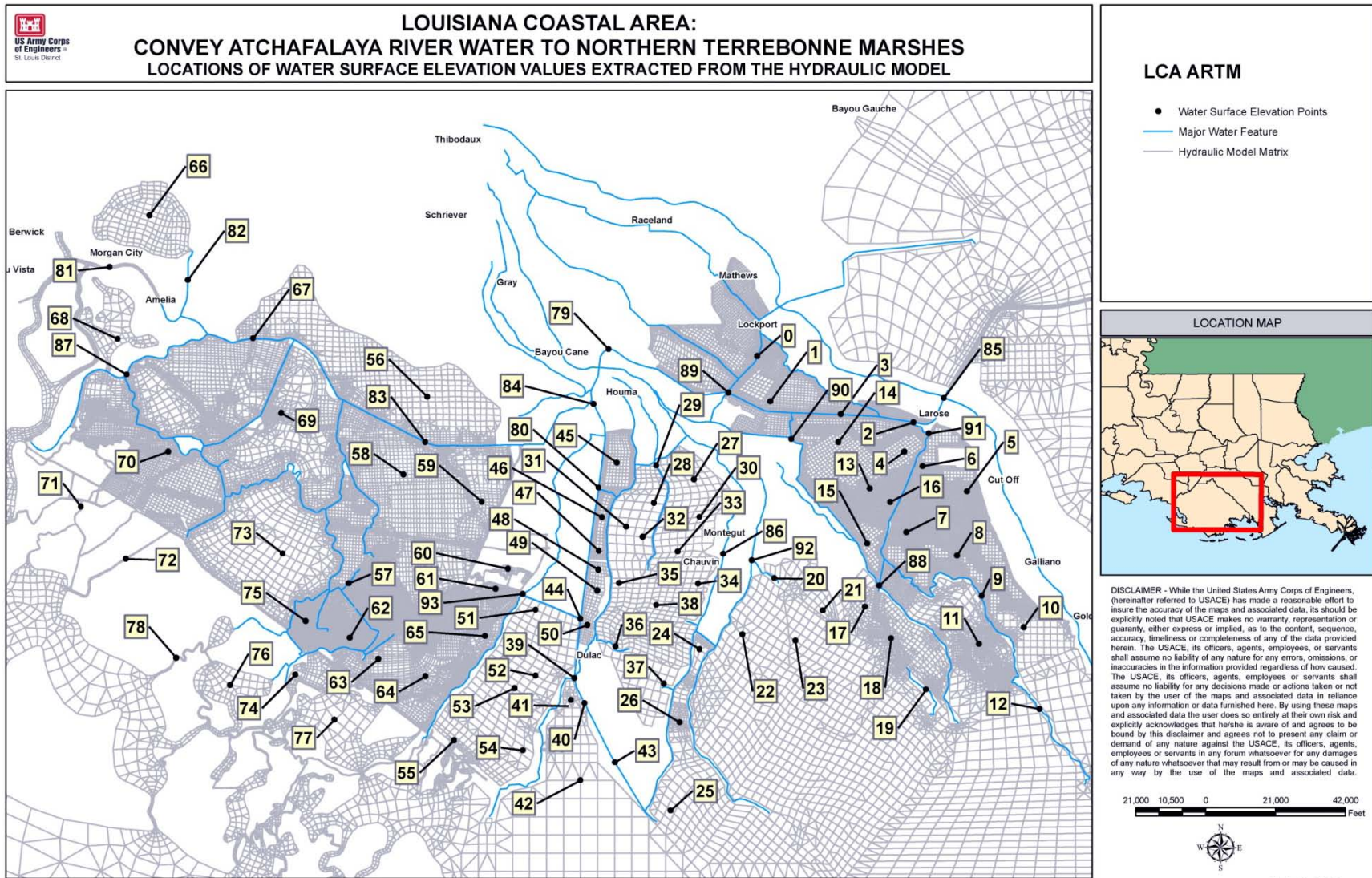
Water body	Element Type	Dispersion Scale Factor in X-Direction	Dispersion Scale Factor in Y-Direction	Minimum Dispersion in X-Direction (m²/s)	Minimum Dispersion in Y-Direction (m²/s)
Atchafalaya open water (elev -5)	112	50	50	0.5	0.5
Atchafalaya 2D channel (elev -5)	113	10	10	0.5	0.5
Atchafalaya overbanks (elev +2)	114	10	10	0.5	0.5
COE Atch. Open water/2D channels	115	75	75	0.5	0.5
USACE Atch. Morgan City lock	116	10	10	0.5	0.5
USACE lower LAR	115	75	75	0.5	0.5
USACE upper LAR	115	75	75	0.5	0.5
USACE Gulf of Mexico	115	75	75	0.5	0.5
USACE overbanks/Avoca Is. Cutoff	117	10	10	0.5	0.5
Atchafalaya land/healthy marsh (elev +2)	120-129	10	10	0.5	0.5
	130	10	10	0.5	0.5
	131	10	10	0.5	0.5



1090 Figure L2-18 - Flow output locations from the model

Table L2-14 - Flow output locations from model

Point	Name	Point	Name
0	Avoca Lake drain	25	Robinson Canal
1	Avoca Island Cutoff W of Avoca Is	26	Company Canal north of GIWW
2	Avoca Island Cutoff at LAR	27	GIWW east of Company Canal
3	Bayou Chene E of Penchant	28	Bayou Boeuf Lock
4	Bayou Penchant mouth	29	Grand Pass
5	Carencro Bayou at Penchant	30	Company Canal south of GIWW
6	Palmetto Bayou head	31	Bayou Terrebonne north of Humble Canal
7	Bayou Boeuf	32	Humble Canal
8	GIWW east of Bay Wallace	33	GIWW west of Larose
9	United Gas Pipeline Canal head	34	GIWW east of Larose
10	Bayou Copasaw head	35	Bayou Lafourche north of GIWW
11	Bayou Penchant below Copasaw	36	Bayou Lafourche south of GIWW
12	Brady Canal head	37	Grand Bayou Canal
13	GIWW middle of Penchant Basin	38	Cutoff Canal
14	Minors Canal	39	Grand Bayou Blue
15	GIWW west of Houma	40	Bayou Chene @ GIWW
16	HNC head	41	WD2
17	GIWW east of Houma	42	Bayou Dulac
18	HNC @ pontoon bridge	43	CS1
19	Falgout Canal west of HNC	44	CC13
20	Falgout Canal west of DuLarge	45	EC2
21	HNC south of BGC	46	EC3
22	Bayou Grand Caillou west of HNC	47	St. Louis Canal
23	Bayou Grand Caillou east of HNC	48	WS4
24	Boudreaux Canal		



1095 Figure L2-19 - Stage output locations from model

Table L2-15 - Stage output locations from model

Point	Name	Point	Name	Point	Name	Point	Name
0	H1	26	D3 Central	52	B6 South	78	Big Carencro Bayou
1	H2 West	27	C2	53	B7 North	79	H3
2	H2 East	28	C3	54	B7 Southeast	80	HNC North
3	H2 Central	29	C1	55	B7 Southwest	81	Bayou Boeuf Lock
4	G2	30	C4	56	A1	82	Bayou Boeuf at Amelia
5	G3 East	31	C5	57	A3 South	83	GIWW middle of Penchant Basin
6	G3 West	32	C6	58	A3 North	84	HNC head
7	G6 West	33	C7	59	A4	85	GIWW west of Larose
8	G6 Central	34	C8	60	A5	86	Bayou Petit Caillou nr Chauvin
9	G6 Southeast	35	C9	61	A6 East	87	Bayou Chene E of Penchant
10	G7 Catfish Lake	36	C10 West	62	A6 West	88	Cutoff Canal
11	G7 Northwest	37	C10 South	63	A7	89	GIWW east of Company Canal
12	G7 Southeast	38	C10 North	64	A8	90	St. Louis Canal
13	G1 South	39	HNC at Bayou Grand Caillou	65	A9	91	Grand Bayou Canal
14	G1 North	40	HNC below Lock Complex	66	Lake Palourde	92	Bayou Terrebonne
15	G5 South	41	C14 North	67	Bayou Black	93	Falgout Canal west of DuLarge
16	G5 North	42	C14 Central	68	Avoca Island		
17	F2	43	HNC South	69	Bayou Copasaw		
18	F3 North	44	HNC at Falgout Canal	70	Bayou Penchant		
19	F3 South	45	B2 North	71	Palmetto Bayou		
20	E2 Northwest	46	B2 South	72	Creole Bayou		
21	E2 Southeast	47	B8	73	Carencro Bayou		
22	E3 North	48	B3	74	Lake Pagie South		
23	E4 North	49	B9	75	Lake Pagie North		
24	D3 North	50	B5	76	Lost Lake West		
25	D3 South	51	B6 North	77	Lost Lake East		

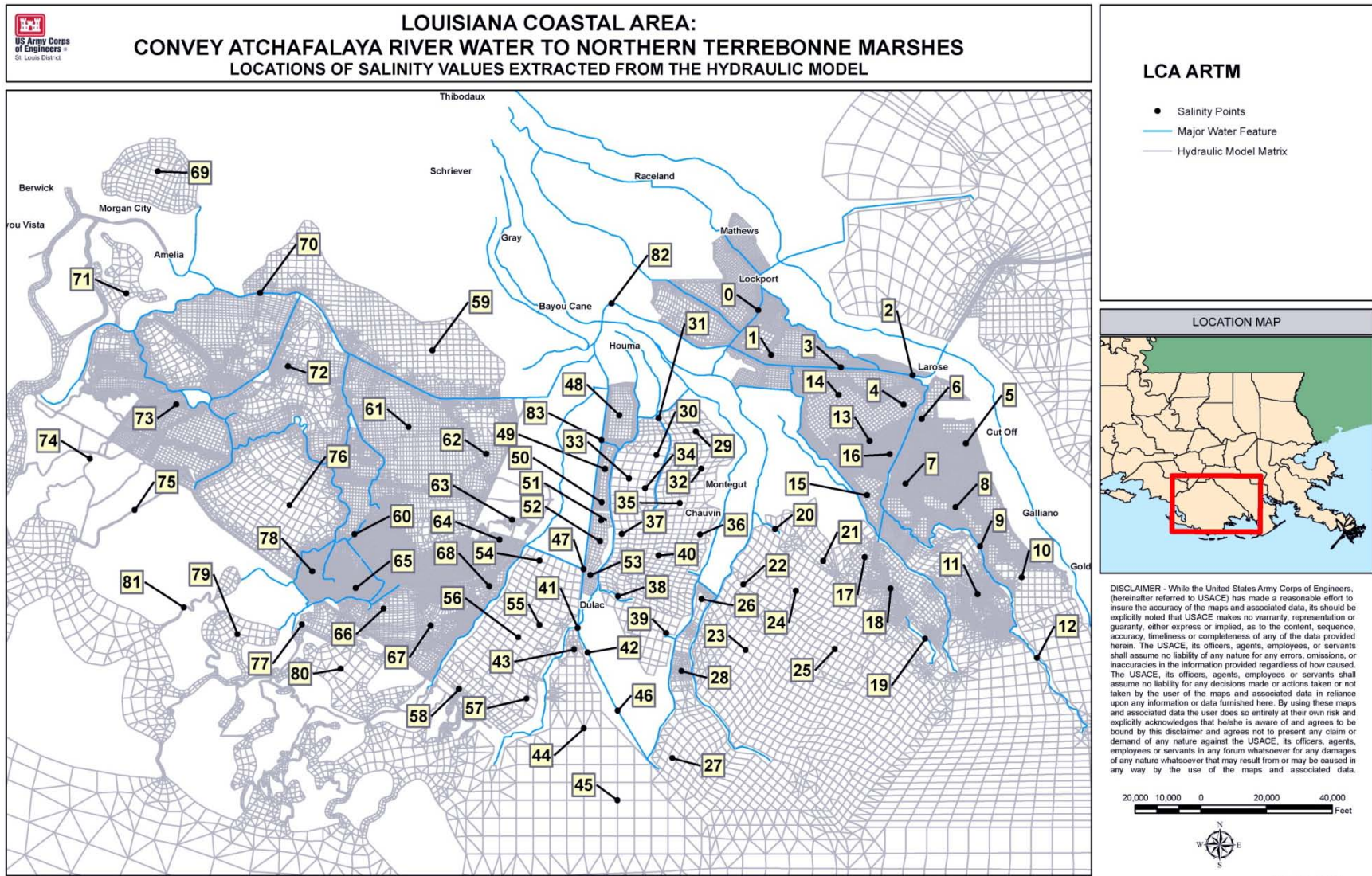


Figure L2-20 - Salinity output locations from the model

1100 **Table L2-16 - Salinity output locations from model**

Point	Name	Point	Name	Point	Name	Point	Name
0	H1	24	E4 North	48	B2 North	72	Bayou Copasaw
1	H2 West	25	E4 South	49	B2 South	73	Bayou Penchant
2	H2 East	26	D3 North	50	B8	74	Palmetto Bayou
3	H2 Central	27	D3 South	51	B3	75	Creole Bayou
4	G2	28	D3 Central	52	B9	76	Carencro Bayou
5	G3 East	29	C2	53	B5	77	Lake Pagie South
6	G3 West	30	C3	54	B6 North	78	Lake Pagie North
7	G6 West	31	C1	55	B6 South	79	Lost Lake West
8	G6 Central	32	C4	56	B7 North	80	Lost Lake East
9	G6 Southeast	33	C5	57	B7 Southeast	81	Big Carencro Bayou
10	G7 Catfish Lake	34	C6	58	B7 Southwest	82	H3
11	G7 Northwest	35	C7	59	A1	83	HNC North
12	G7 Southeast	36	C8	60	A3 South		
13	G1 South	37	C9	61	A3 North		
14	G1 North	38	C10 West	62	A4		
15	G5 South	39	C10 South	63	A5		
16	G5 North	40	C10 North	64	A6 East		
17	F2	41	HNC at Bayou Grand Caillou	65	A6 West		
18	F3 North	42	HNC below Lock Complex	66	A7		
19	F3 South	43	C14 North	67	A8		
20	E2 Northwest	44	C14 Central	68	A9		
21	E2 Southeast	45	C14 South	69	Lake Palourde		
22	E3 North	46	HNC South	70	Bayou Black		
23	E3 South	47	HNC at Falgout Canal	71	Avoca Island		

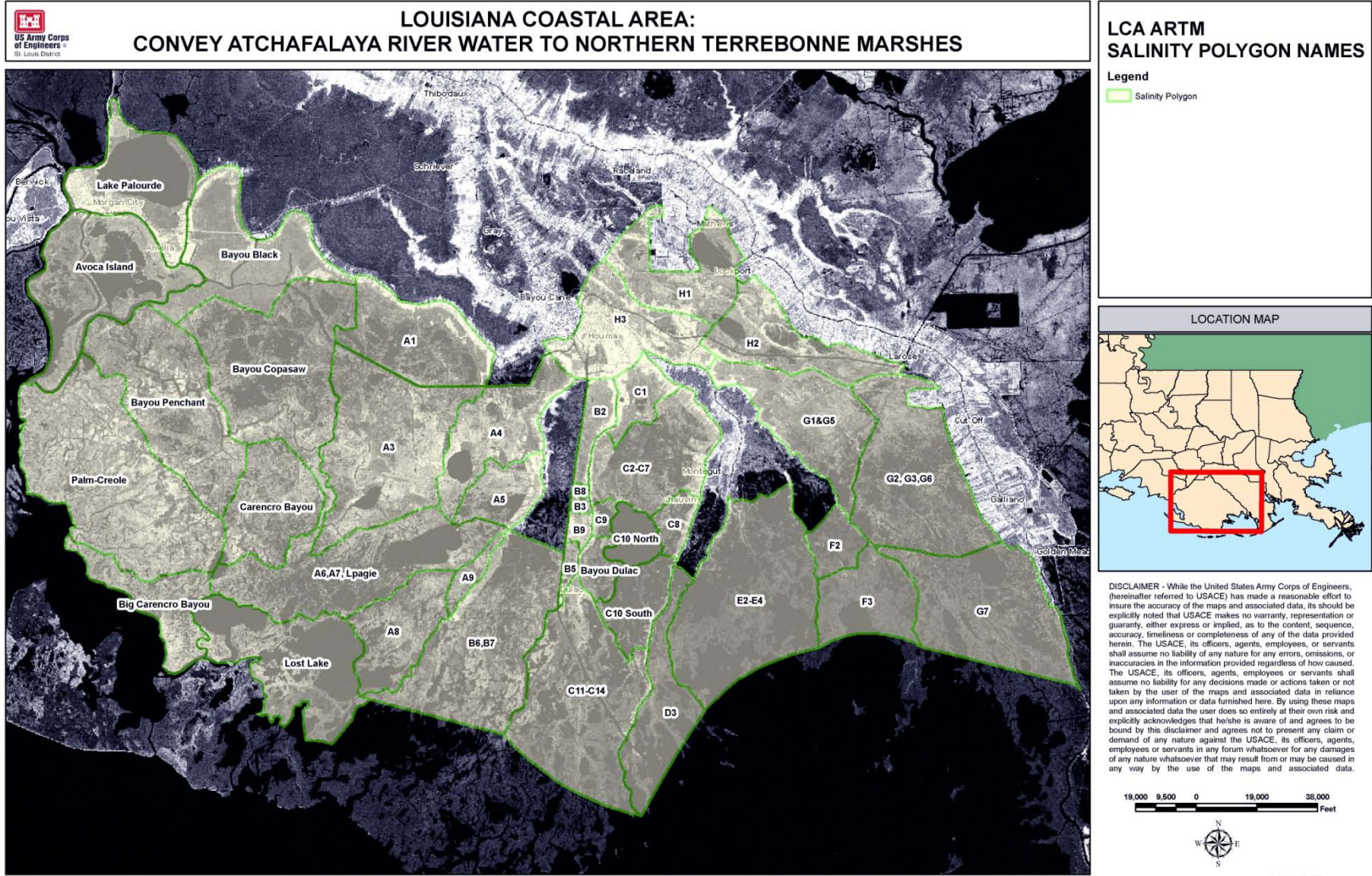


Figure L2-21 - Salinity polygons used in benefits analysis

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RMA-2 Stage Calibration Results

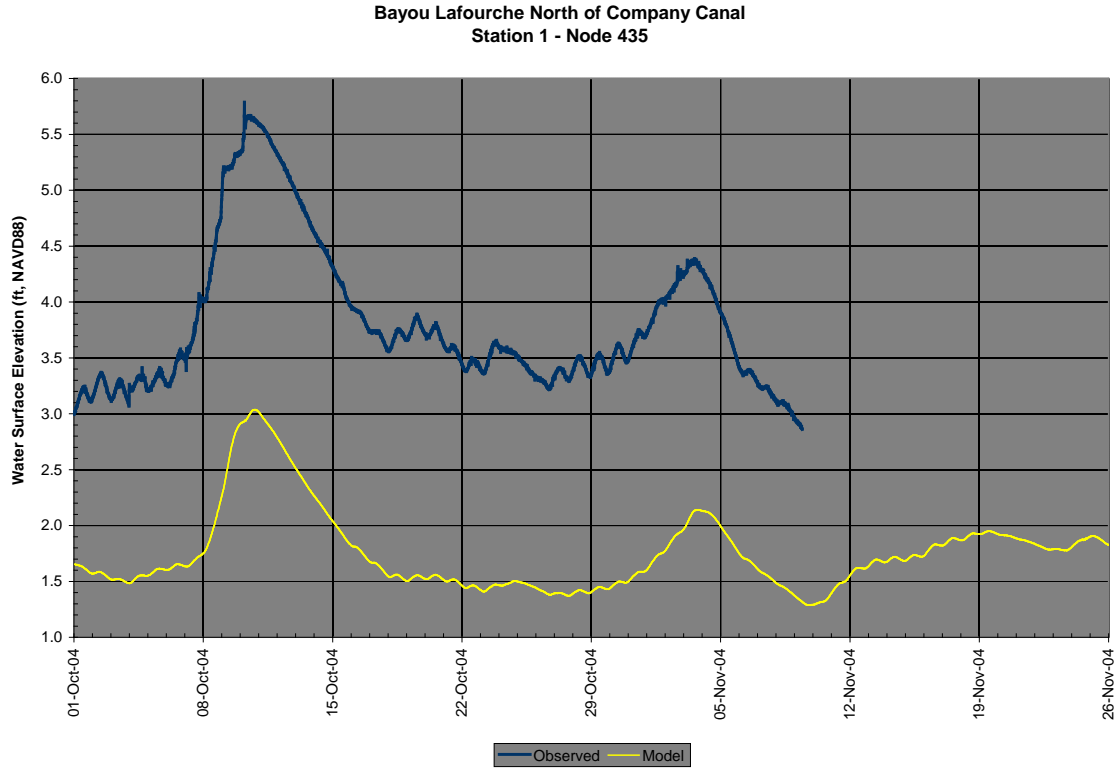


Figure L2-22 - RMA-2 calibration plot for Station 1

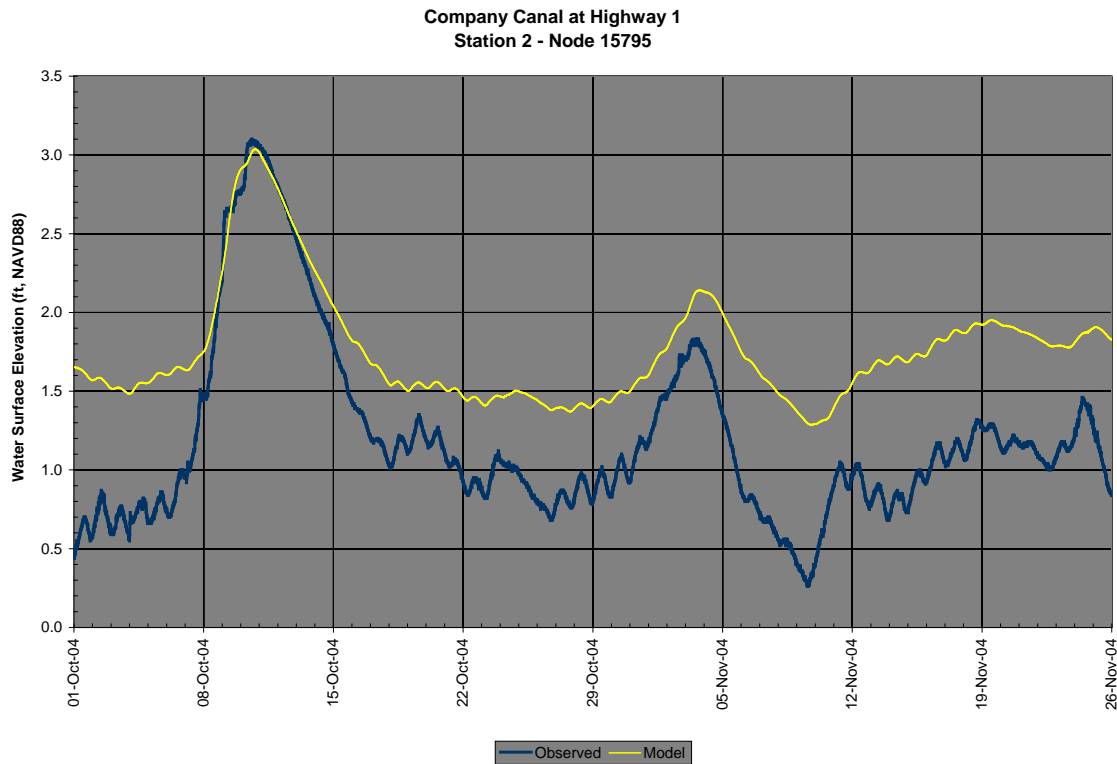
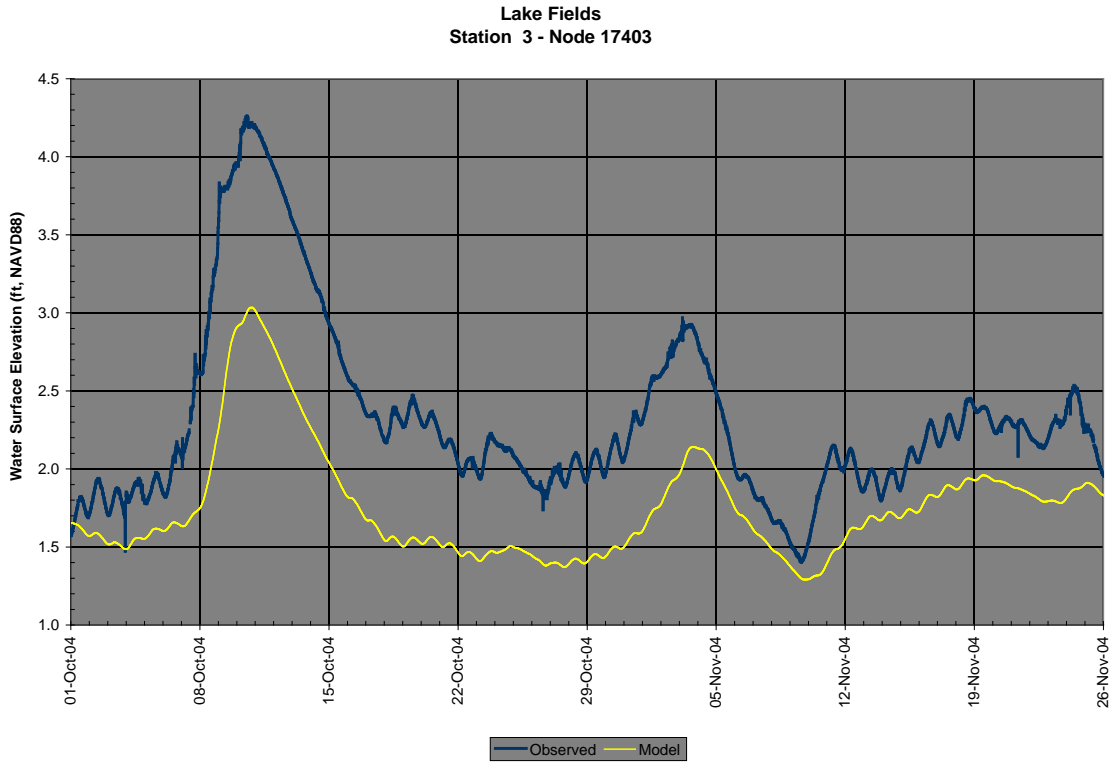


Figure L2-23 - RMA-2 calibration plot for Station 2



1110

Figure L2-24 - RMA-2 calibration plot for Station 3

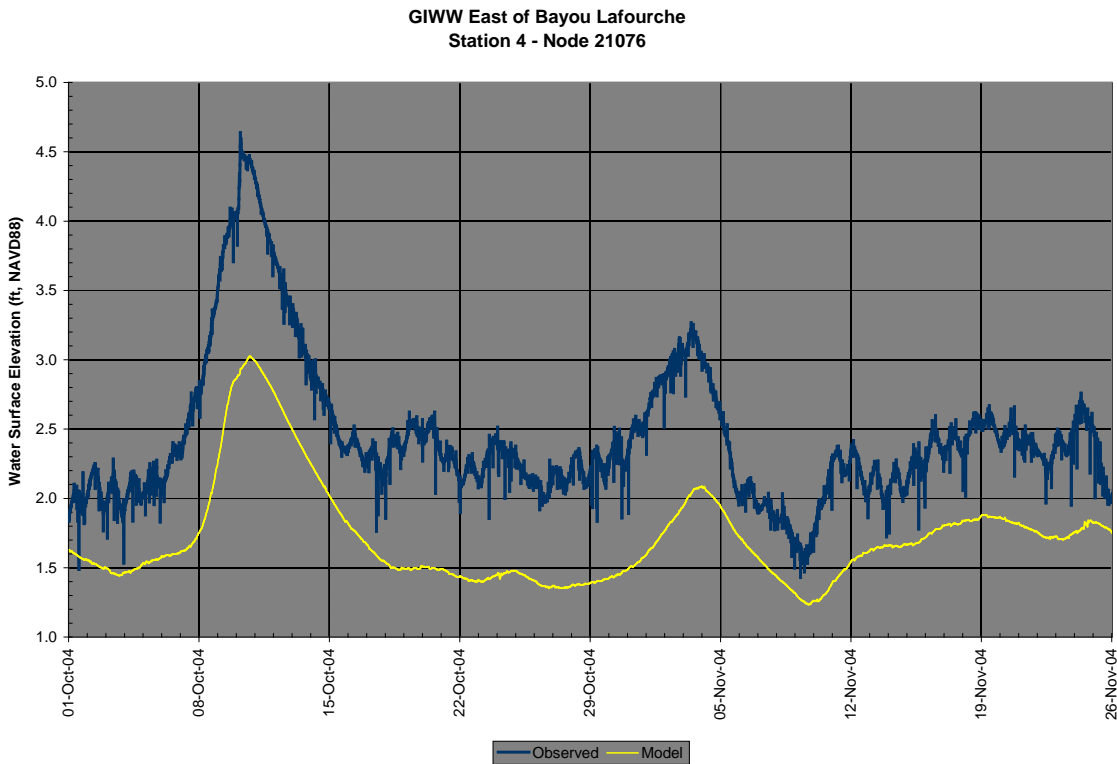
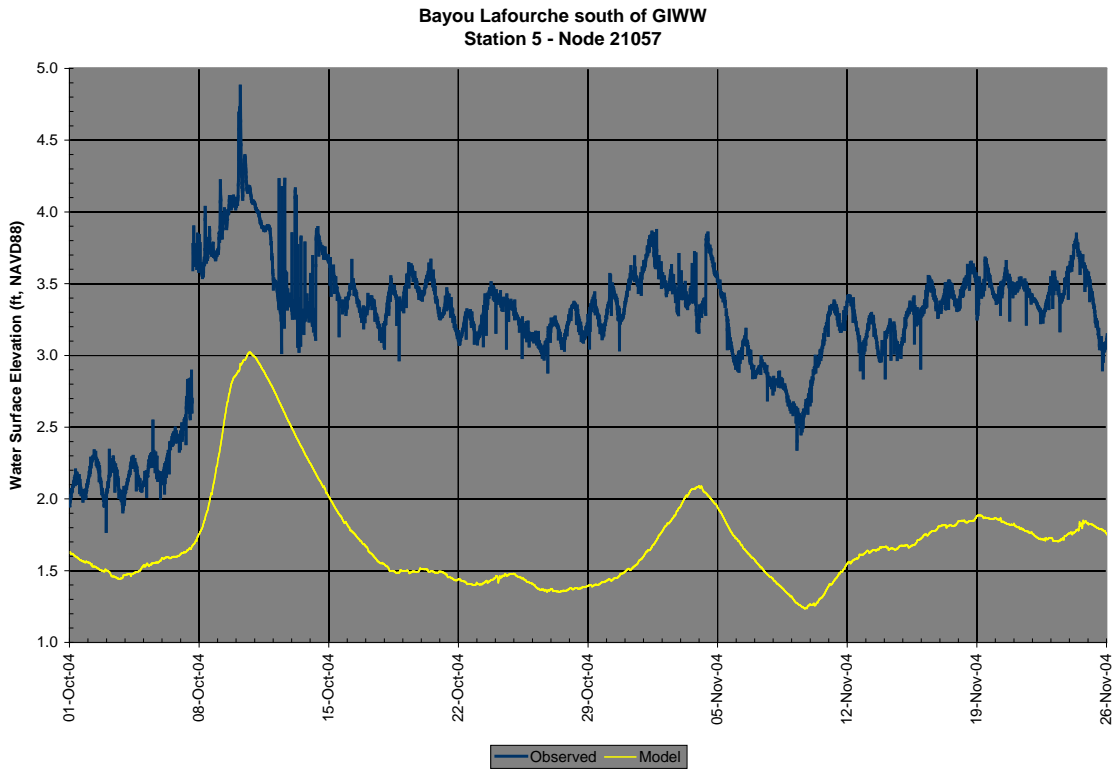


Figure L2-25 - RMA-2 calibration plot for Station 4



1115

Figure L2-26 - RMA-2 calibration plot for Station 5

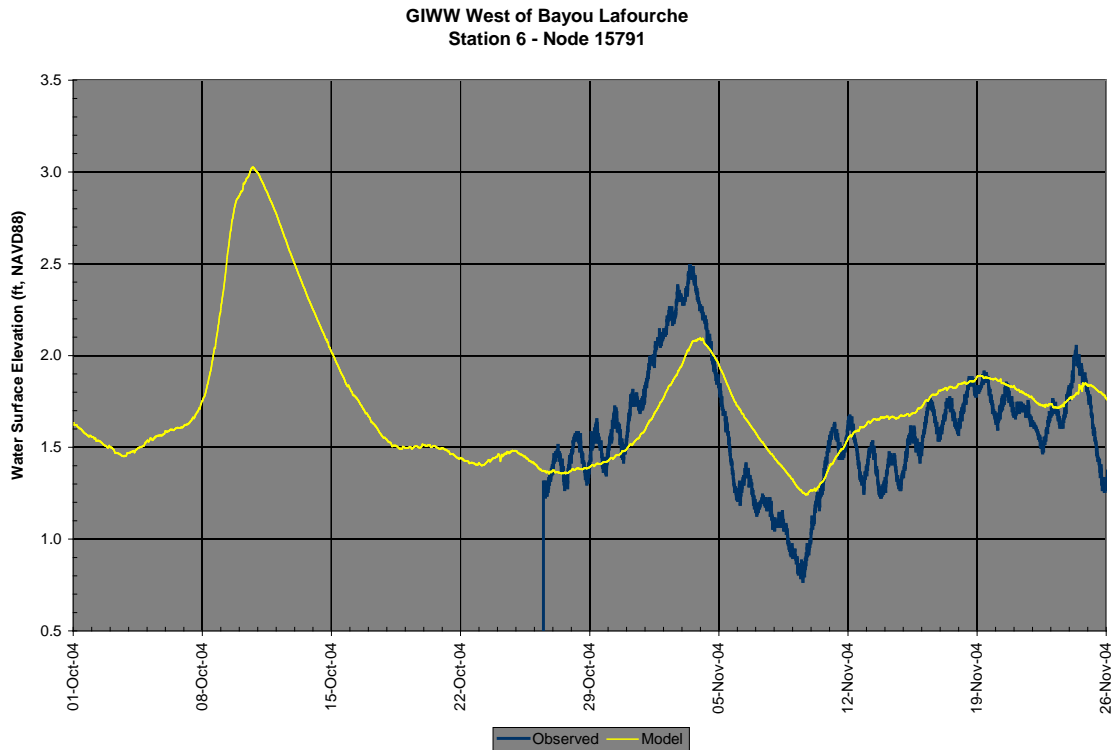
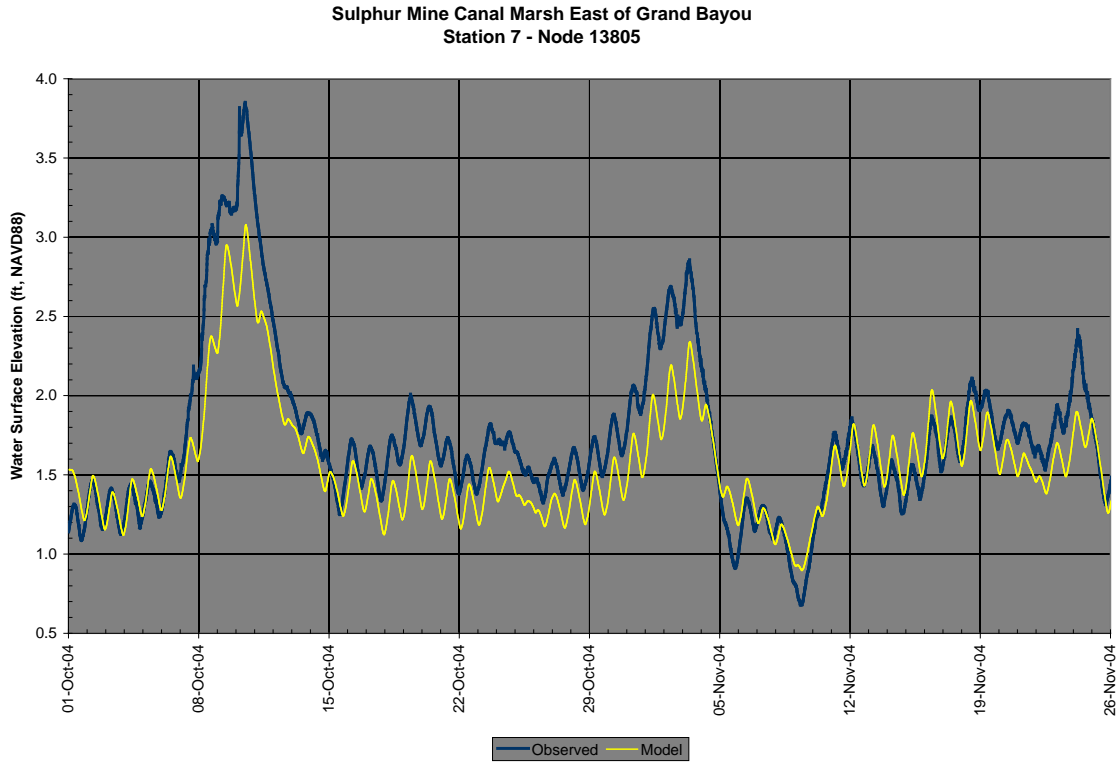


Figure L2-27 - RMA-2 calibration plot for Station 6



1120 **Figure L2-28 - RMA-2 calibration plot for Station 7**

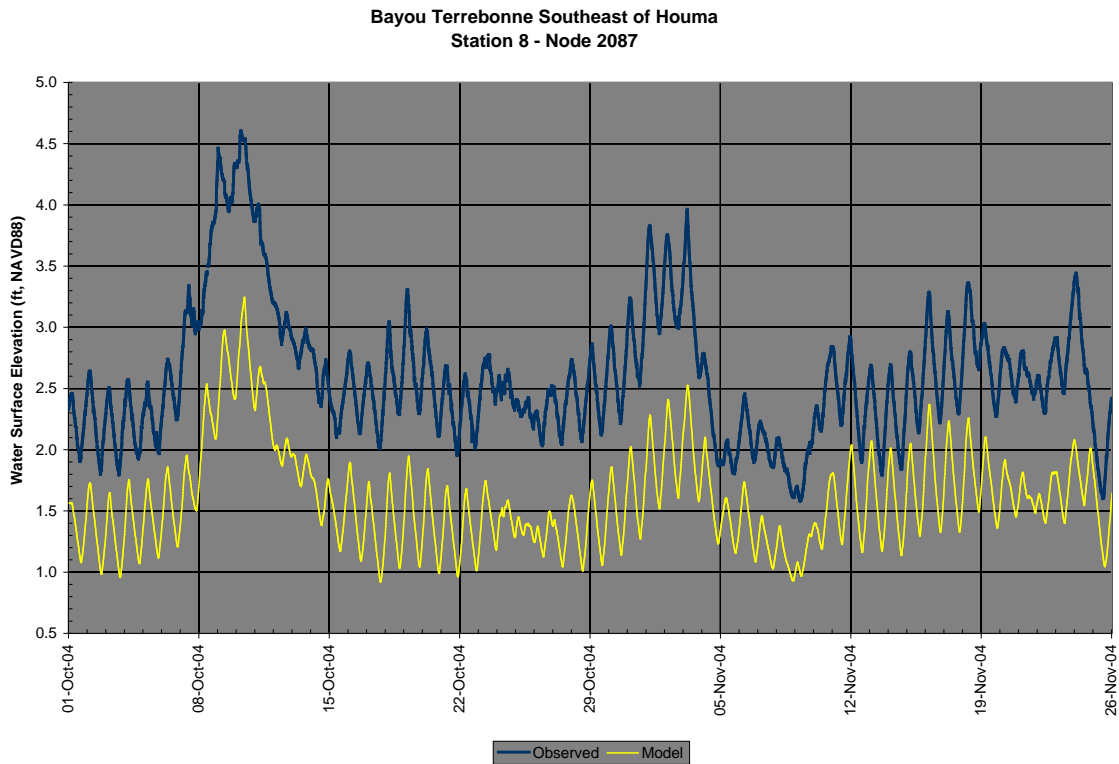


Figure L2-29 - RMA-2 calibration plot for Station 8

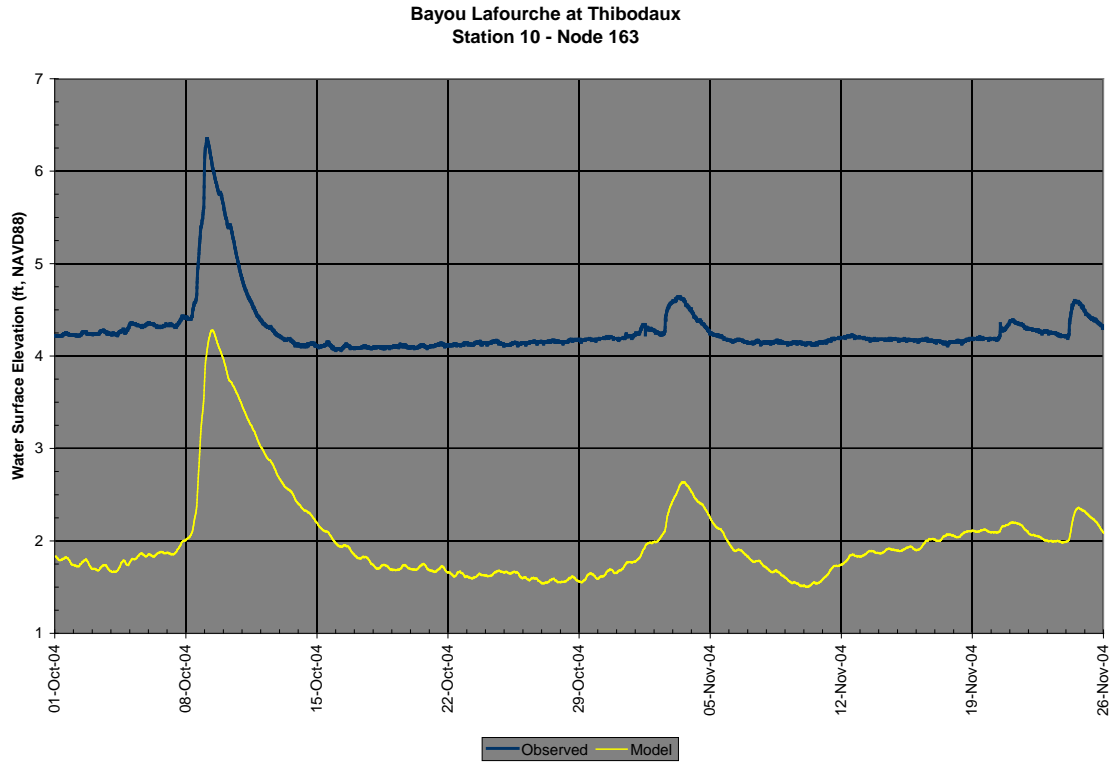


Figure L2-30 - RMA-2 calibration plot for Station 10

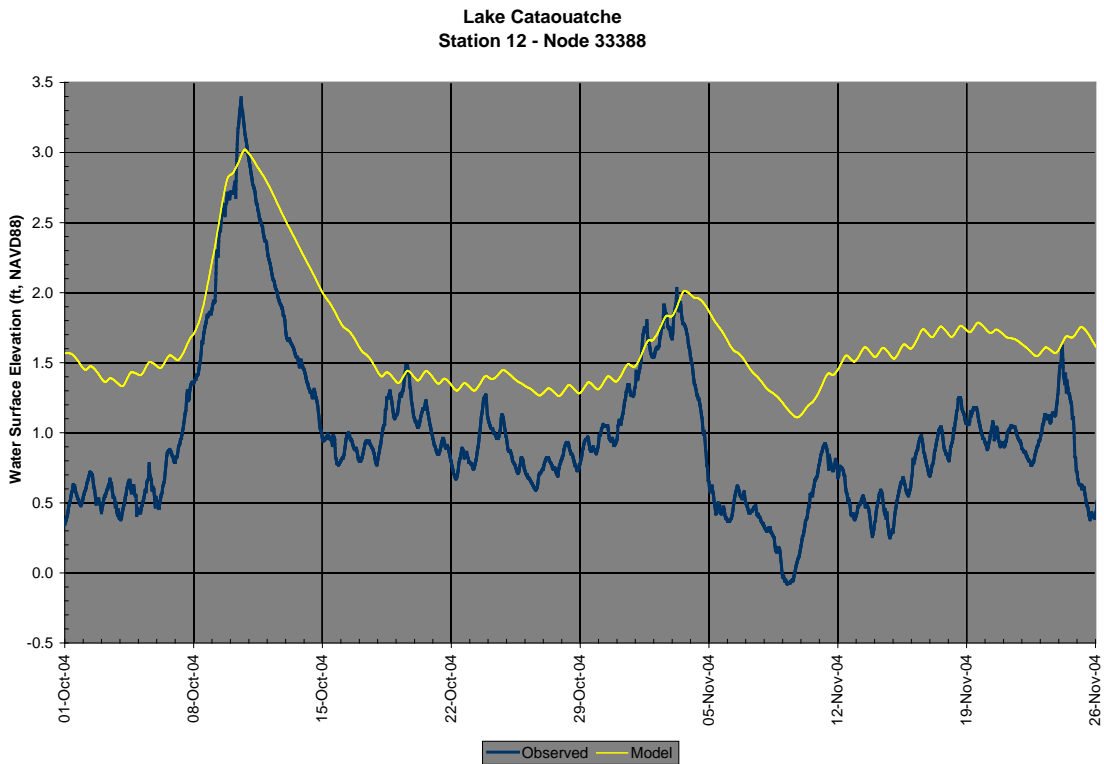


Figure L2-31 - RMA-2 calibration plot for Station 12

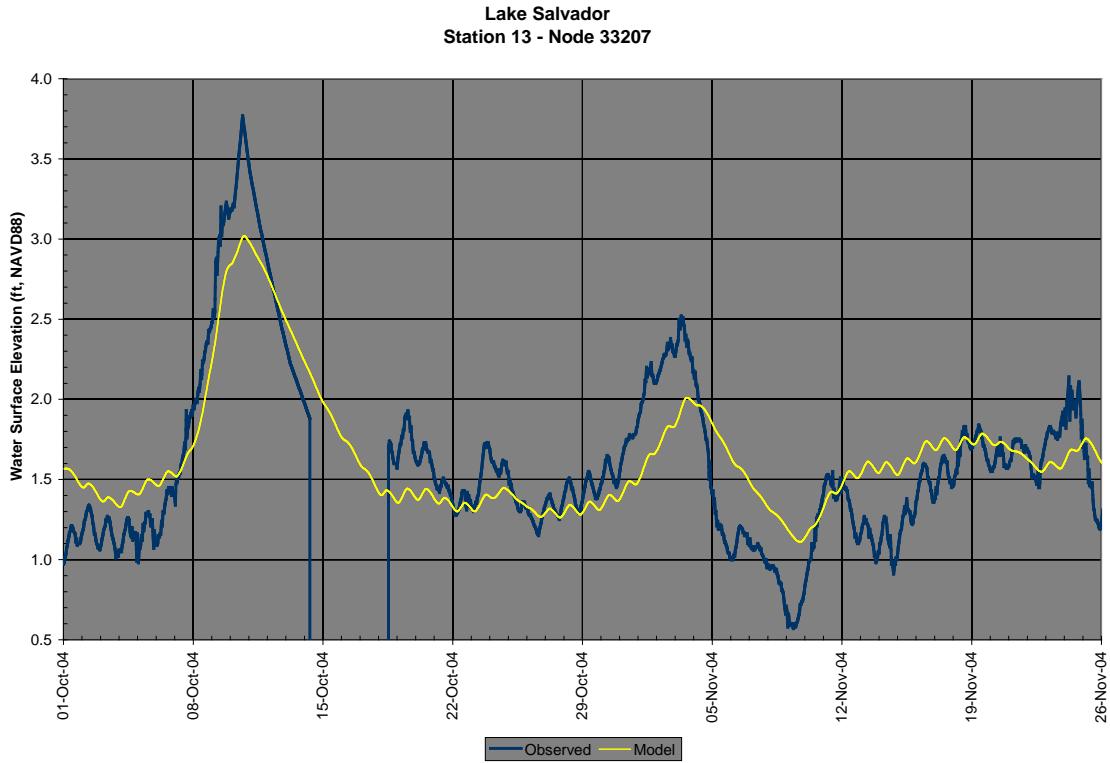
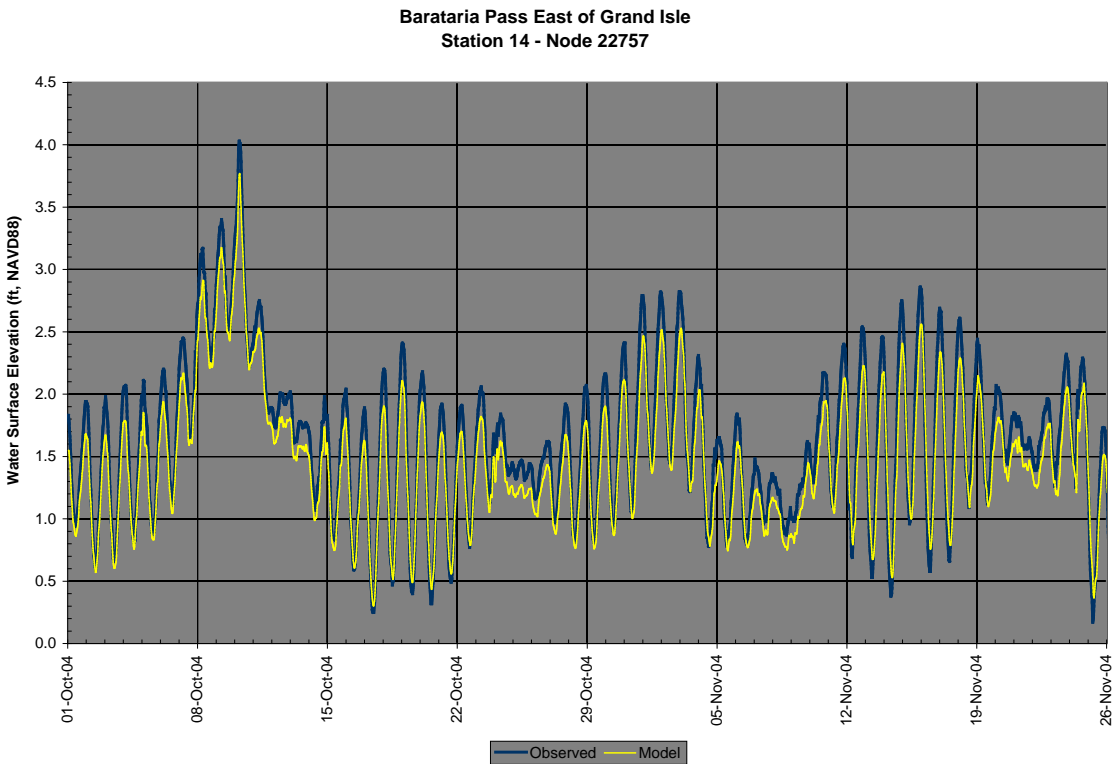


Figure L2-32 - RMA-2 calibration plot for Station 13



1130 **Figure L2-33 - RMA-2 calibration plot for Station 14**

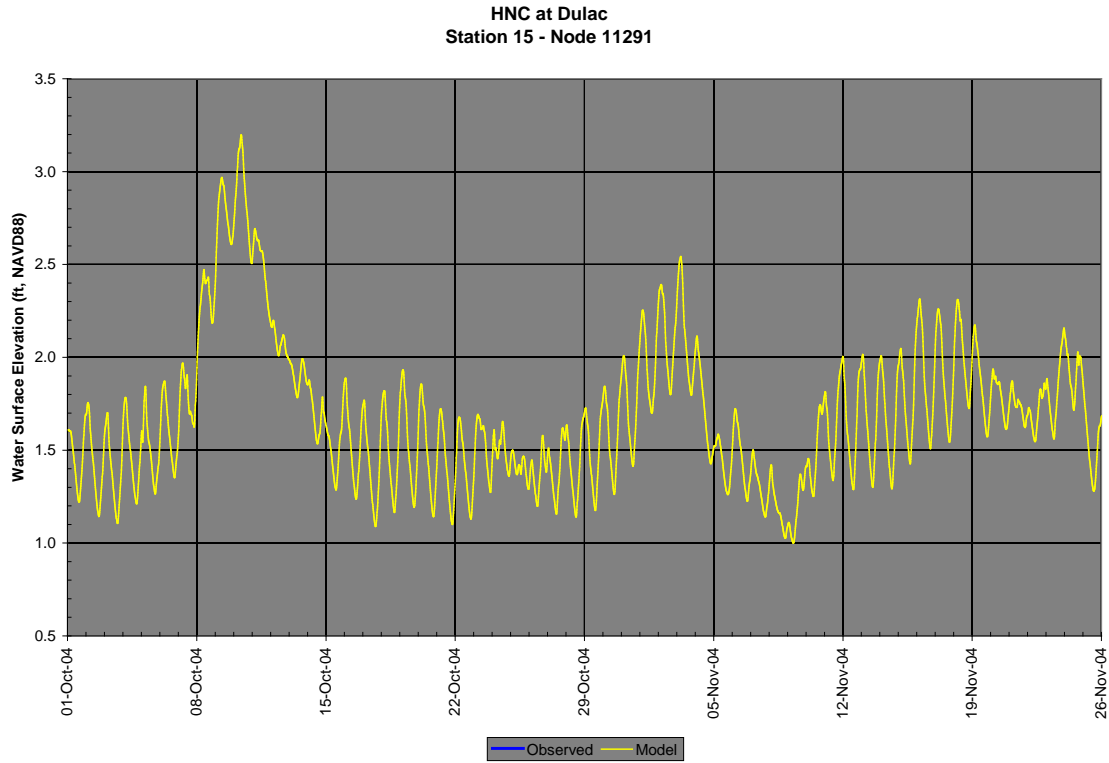


Figure L2-34 - RMA-2 calibration plot for Station 15

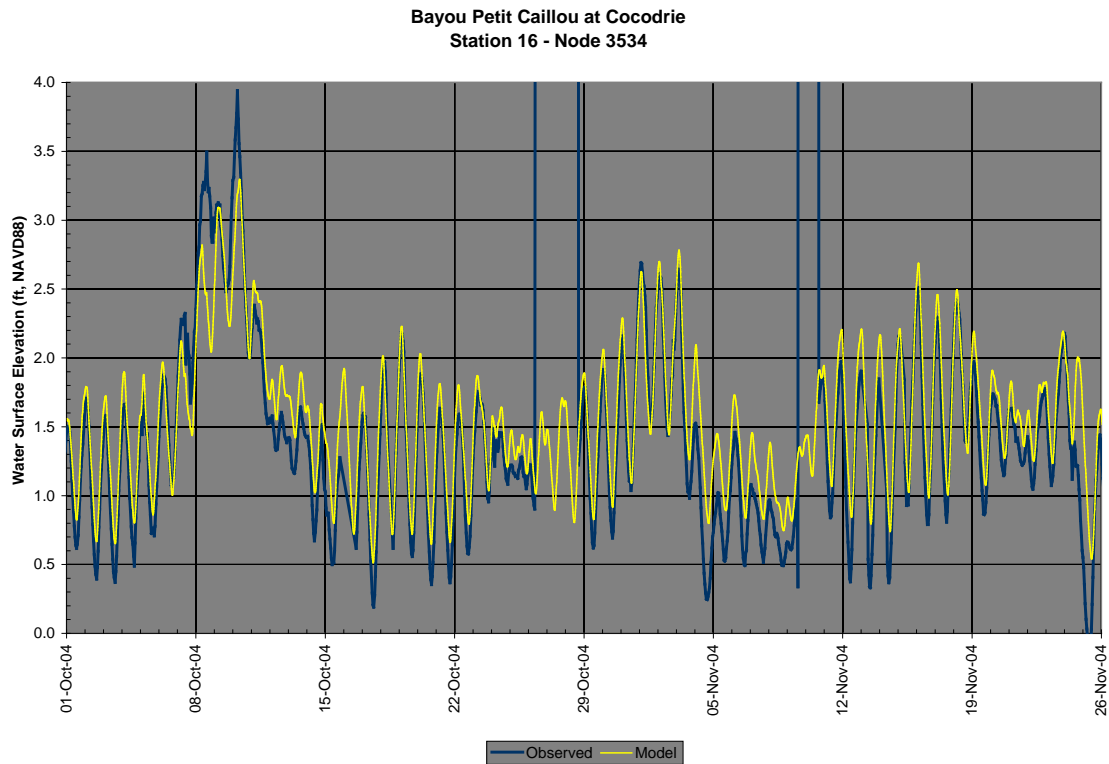
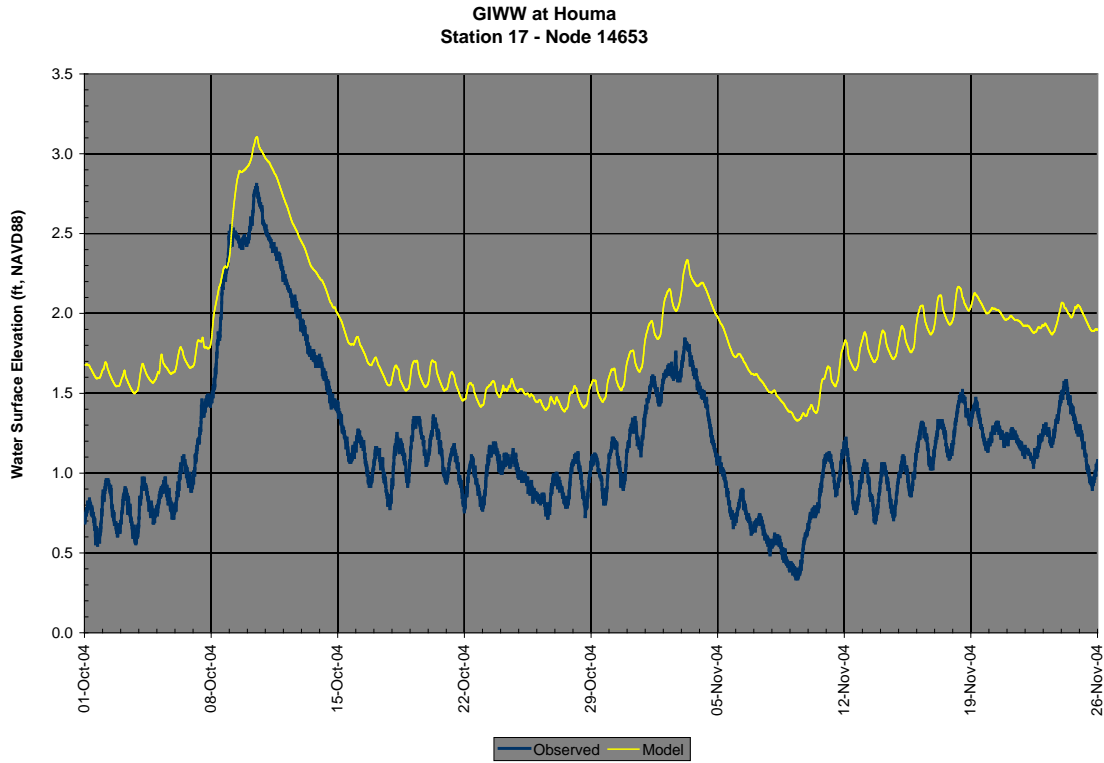


Figure L2-35 - RMA-2 calibration plot for Station 16



1135

Figure L2-36 - RMA-2 calibration plot for Station 17

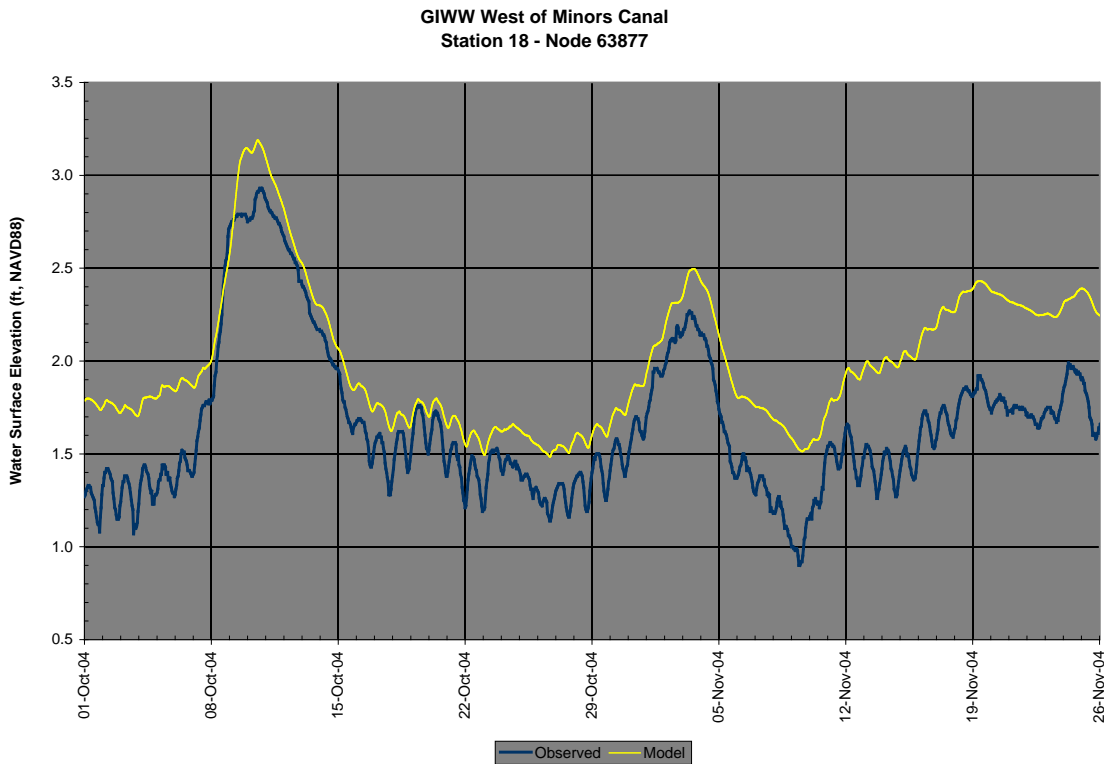
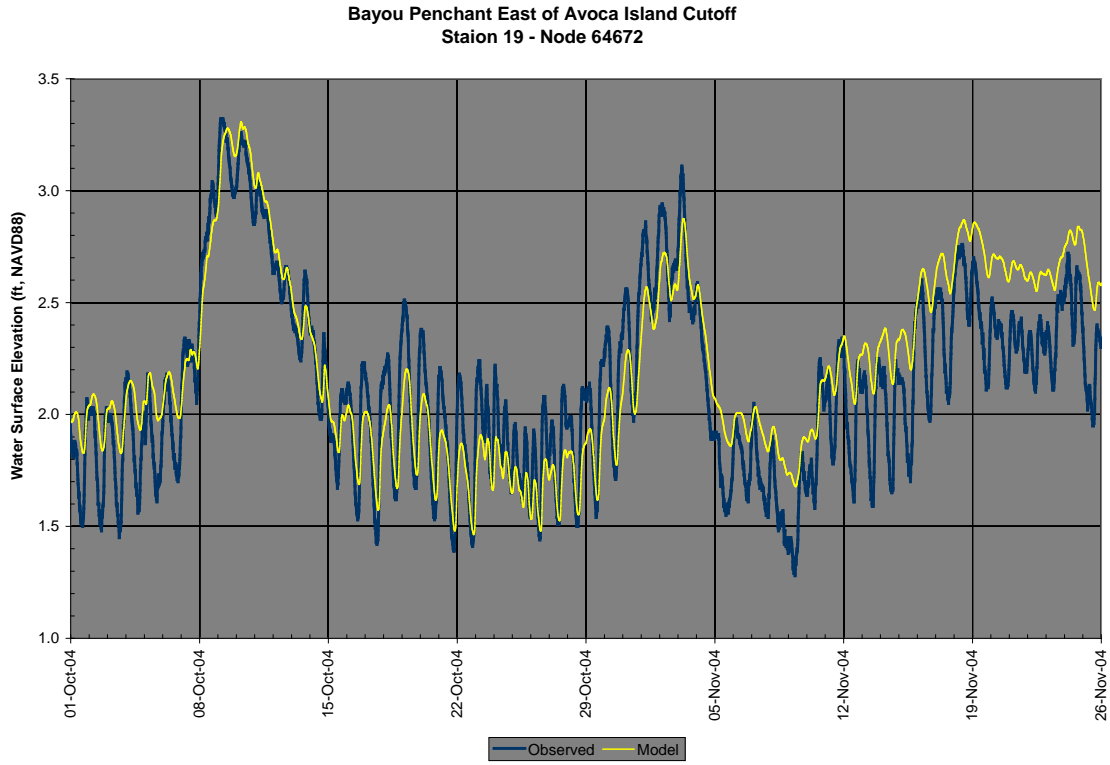


Figure L2-37 - RMA-2 calibration plot for Station 18



1140 **Figure L2-38 - RMA-2 calibration plot for Station 19**

RMA-11 Salinity Calibration Results

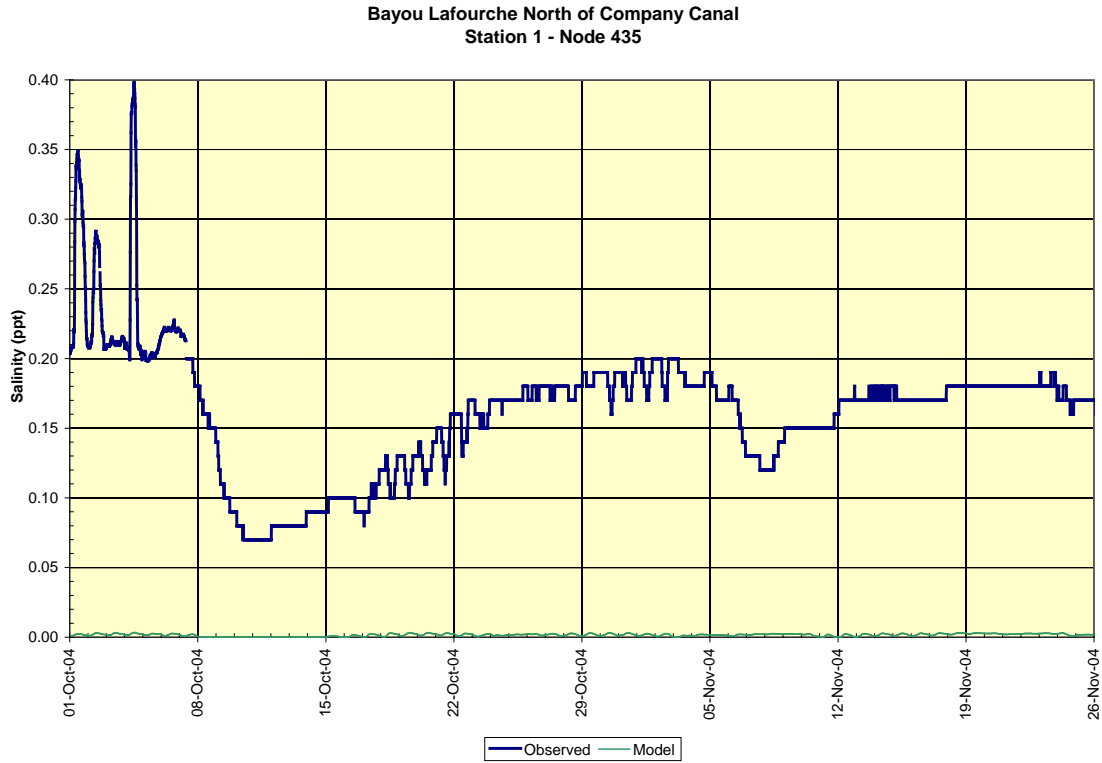


Figure L2-39 - RMA-11 calibration plot for Station 1

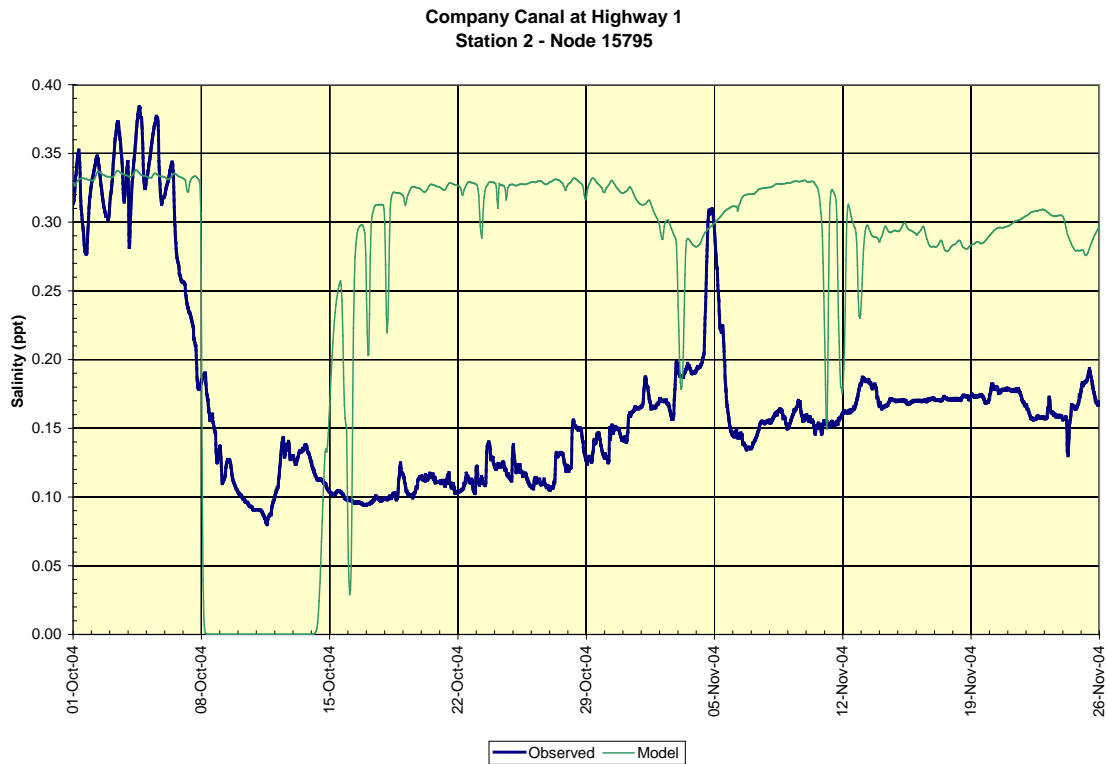


Figure L2-40 - RMA-11 calibration plot for Station 2

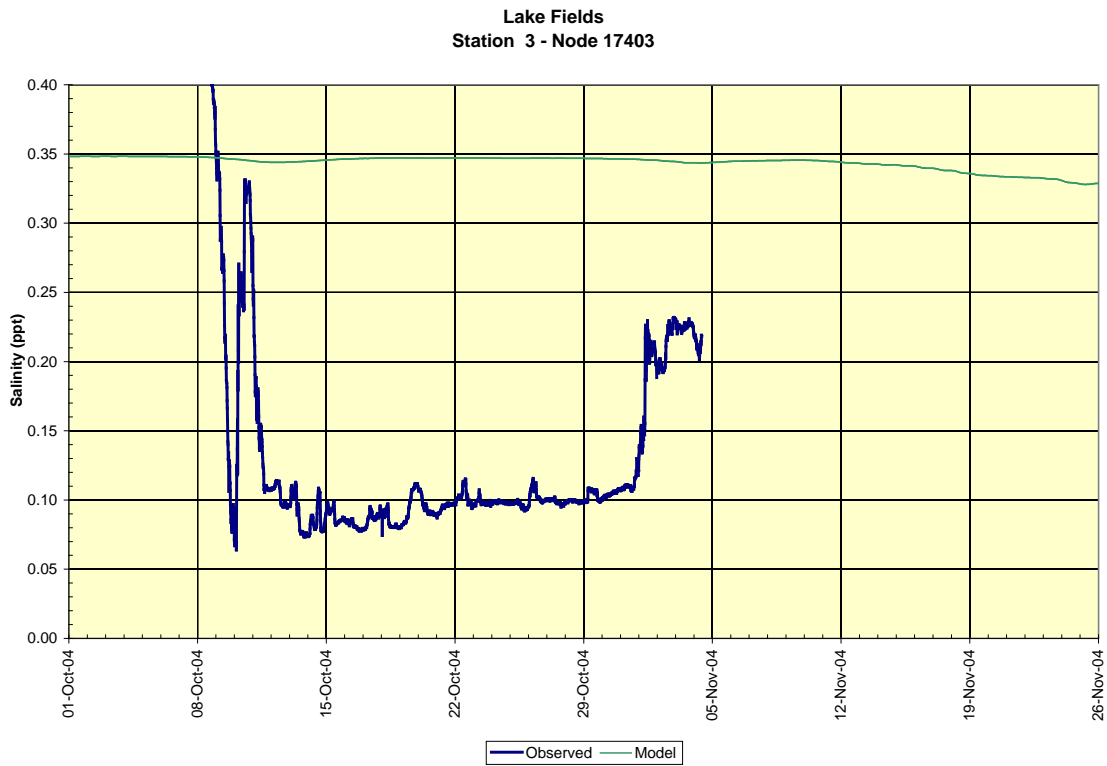
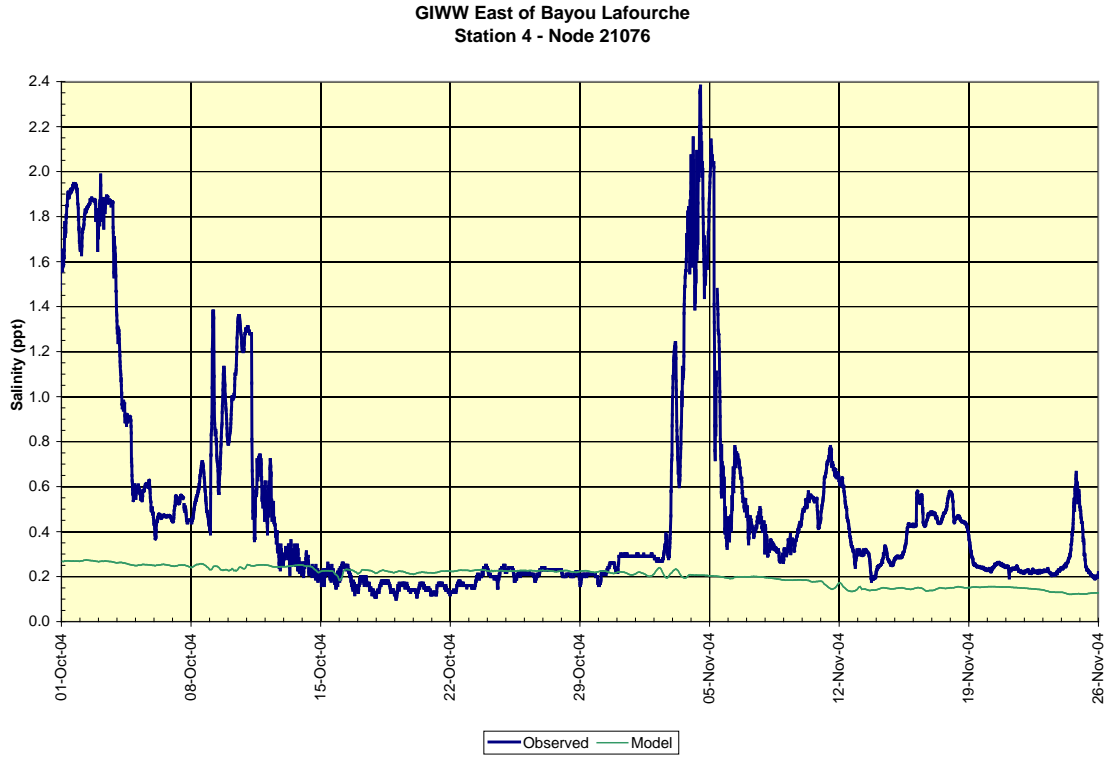


Figure L2-41 - RMA-11 calibration plot for Station 3



1150

Figure L2-42 - RMA-11 calibration plot for Station 4

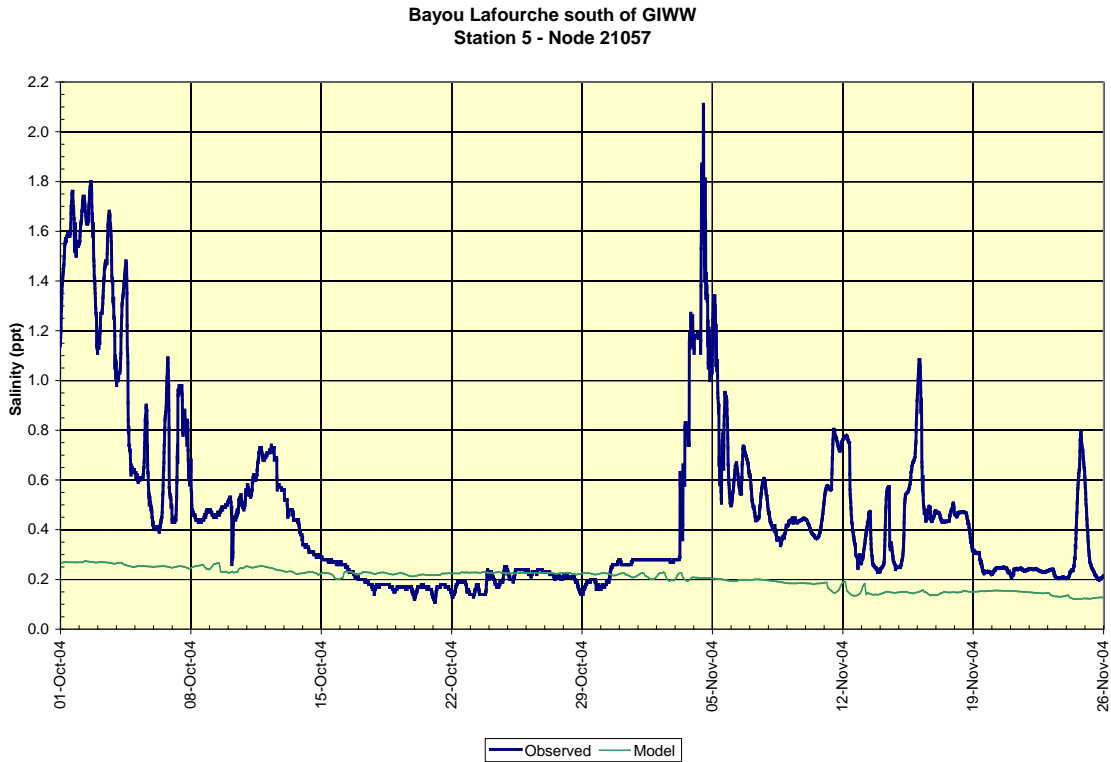
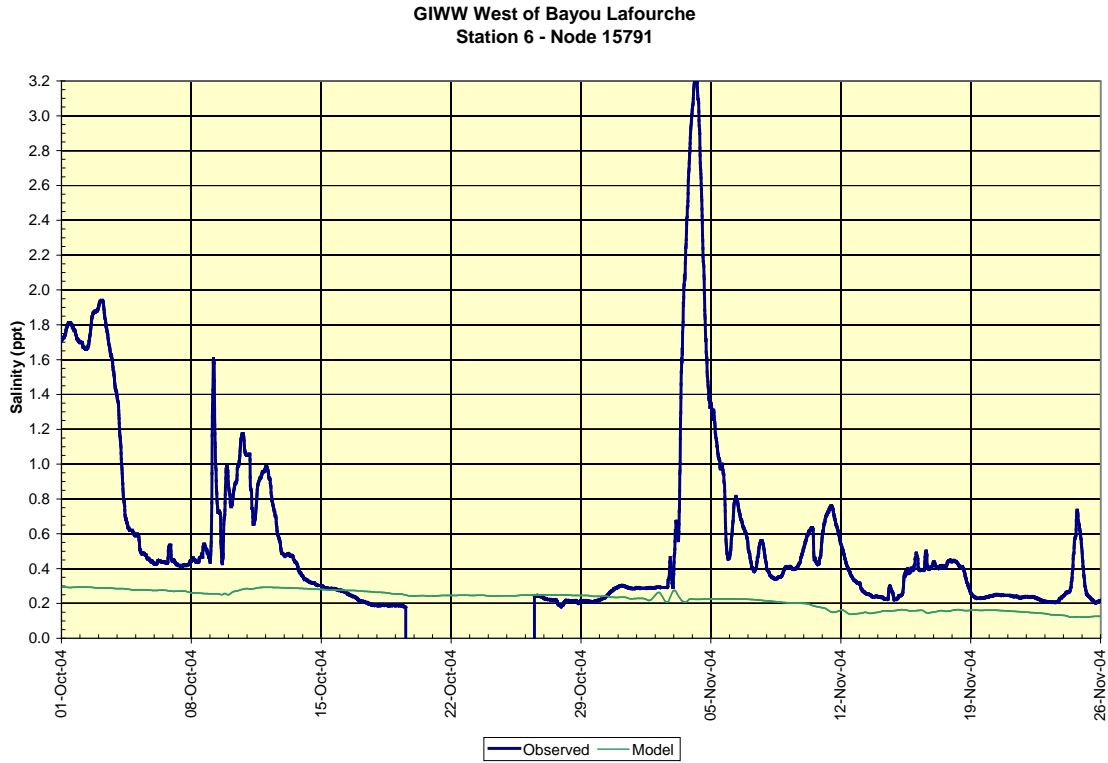


Figure L2-43 - RMA-11 calibration plot for Station 5



1155 **Figure L2-44 - RMA-11 calibration plot for Station 6**

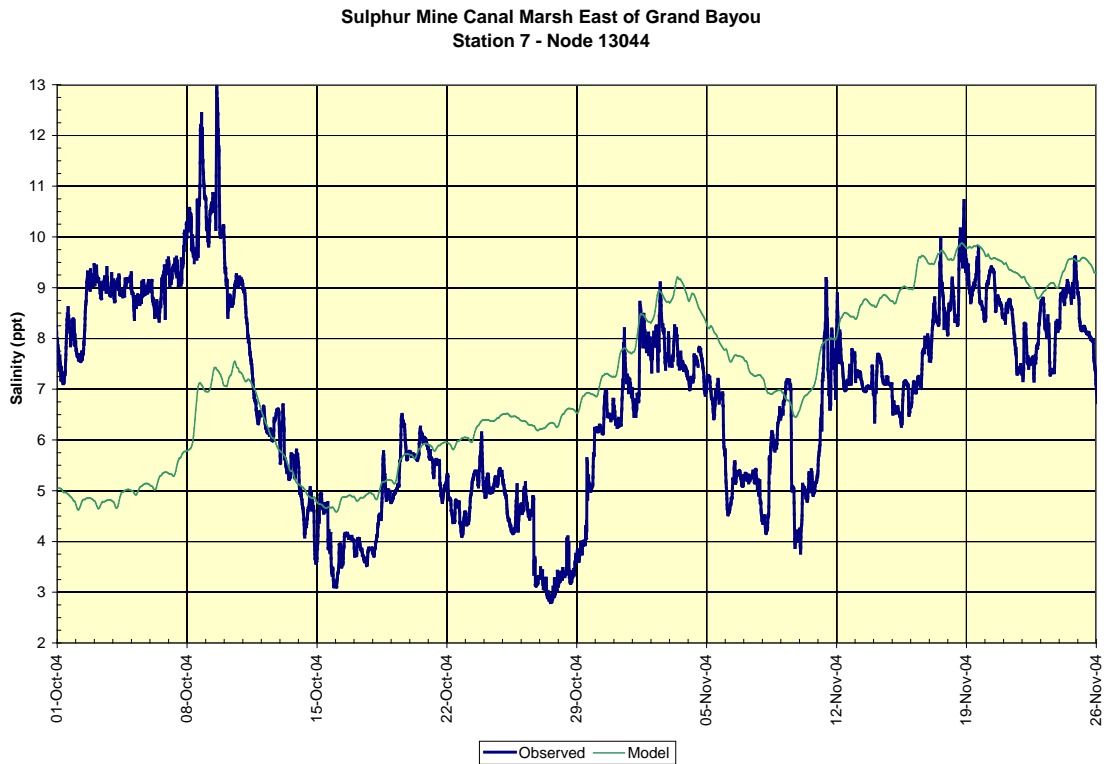


Figure L2-45 - RMA-11 calibration plot for Station 7

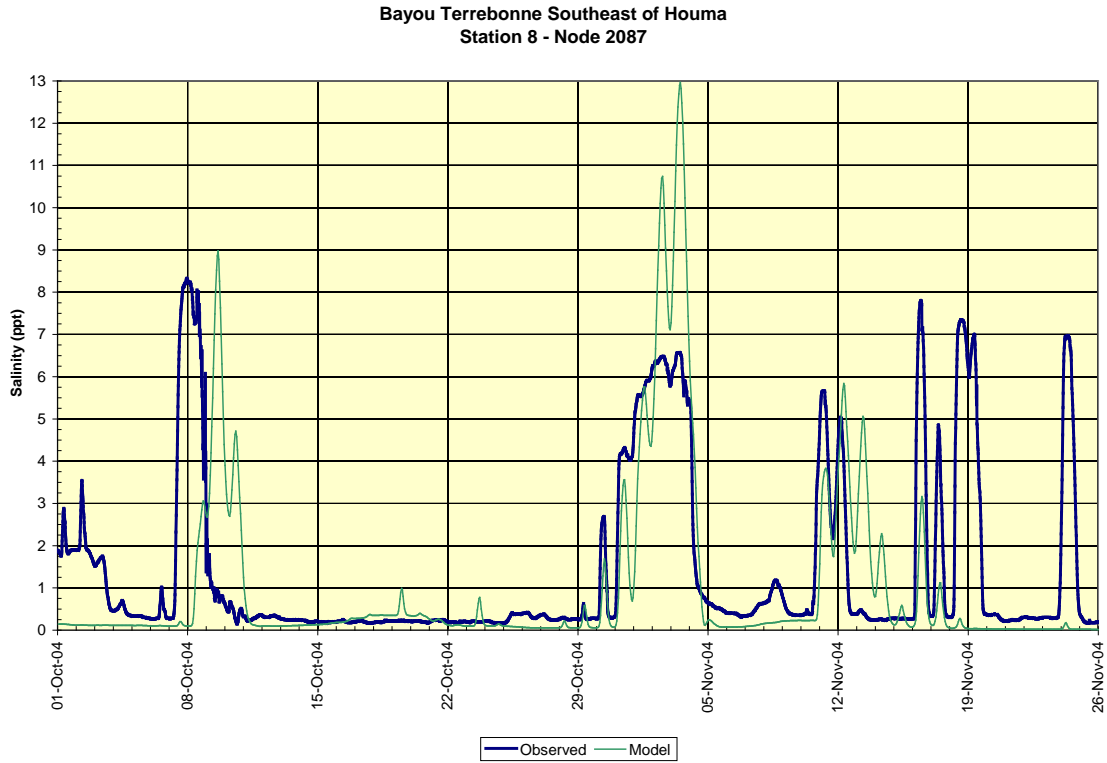


Figure L2-46 - RMA-11 calibration plot for Station 8

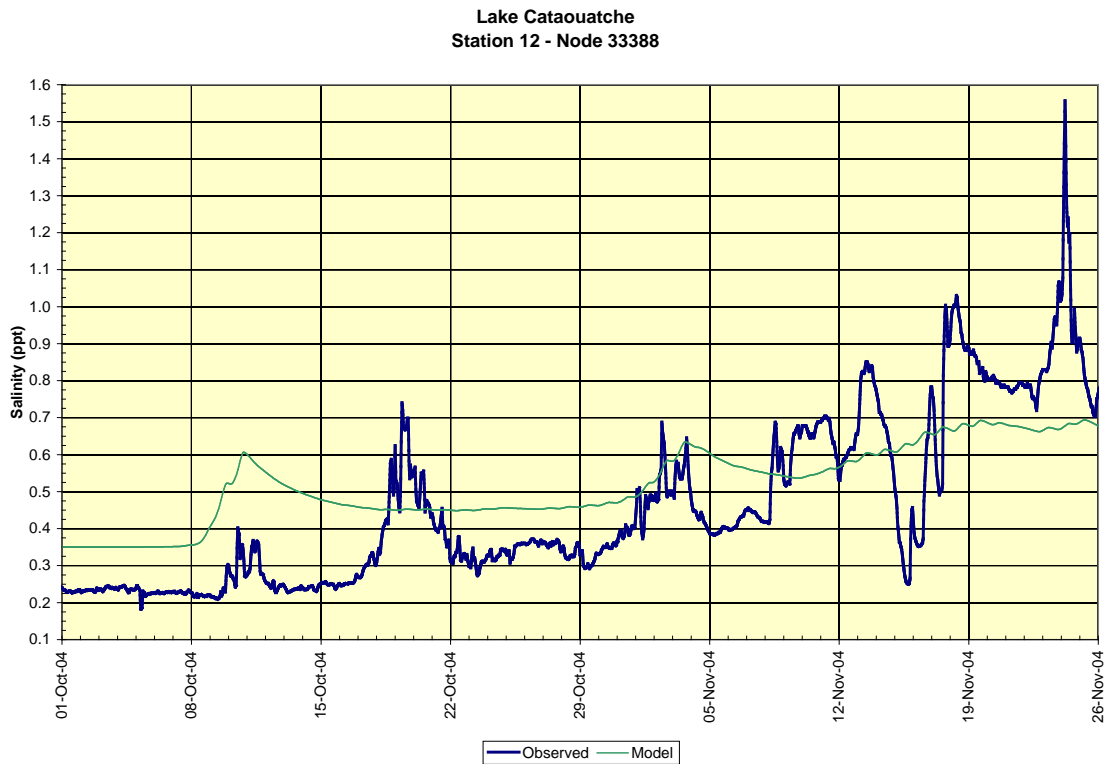


Figure L2-47 - RMA-11 calibration plot for Station 12

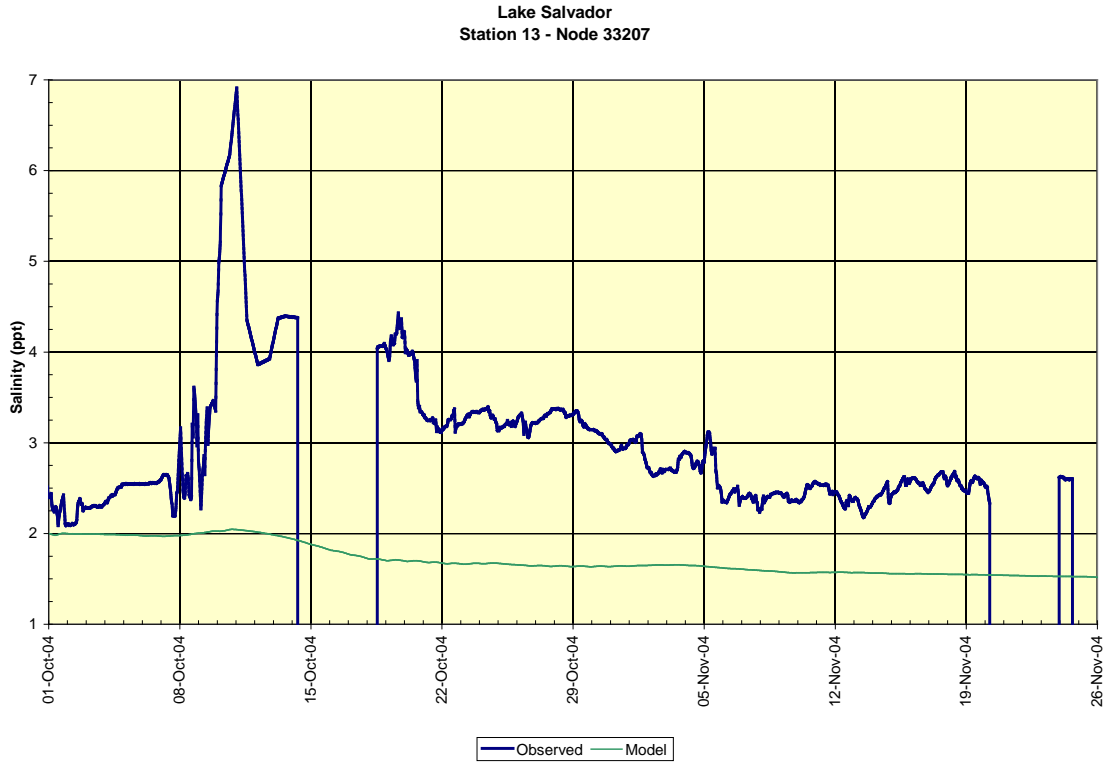
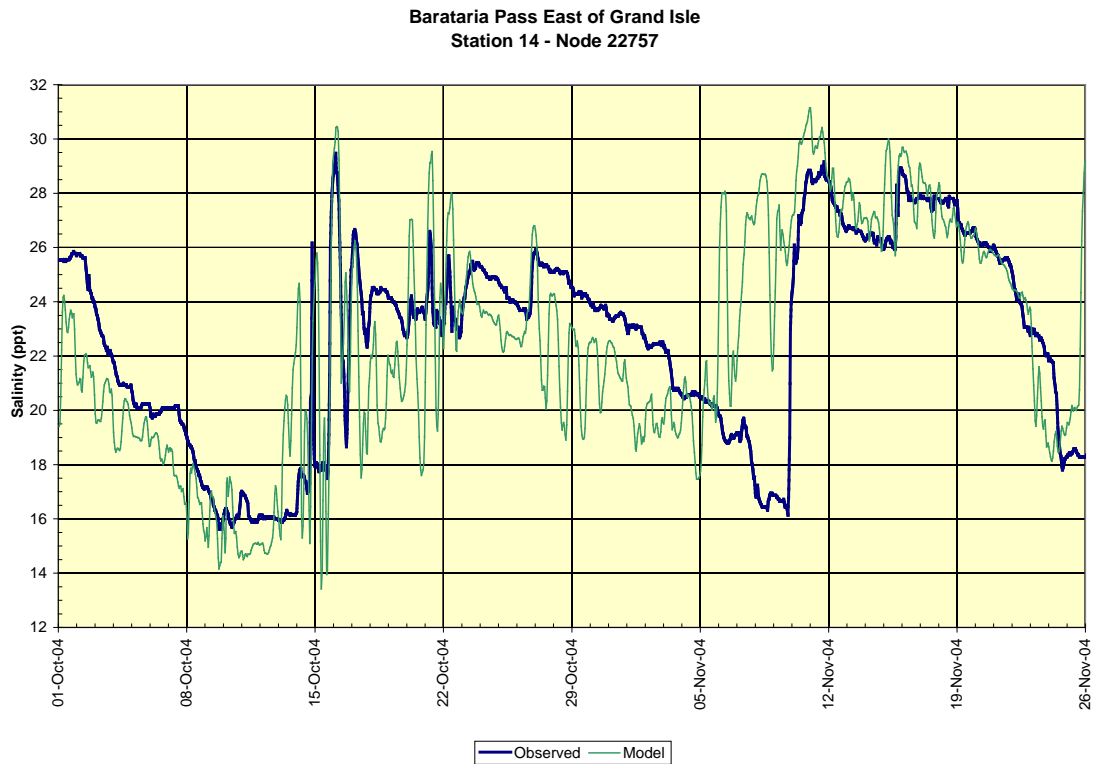


Figure L2-48 - RMA-11 calibration plot for Station 13



1165 **Figure L2-49 - RMA-11 calibration plot for Station 14**

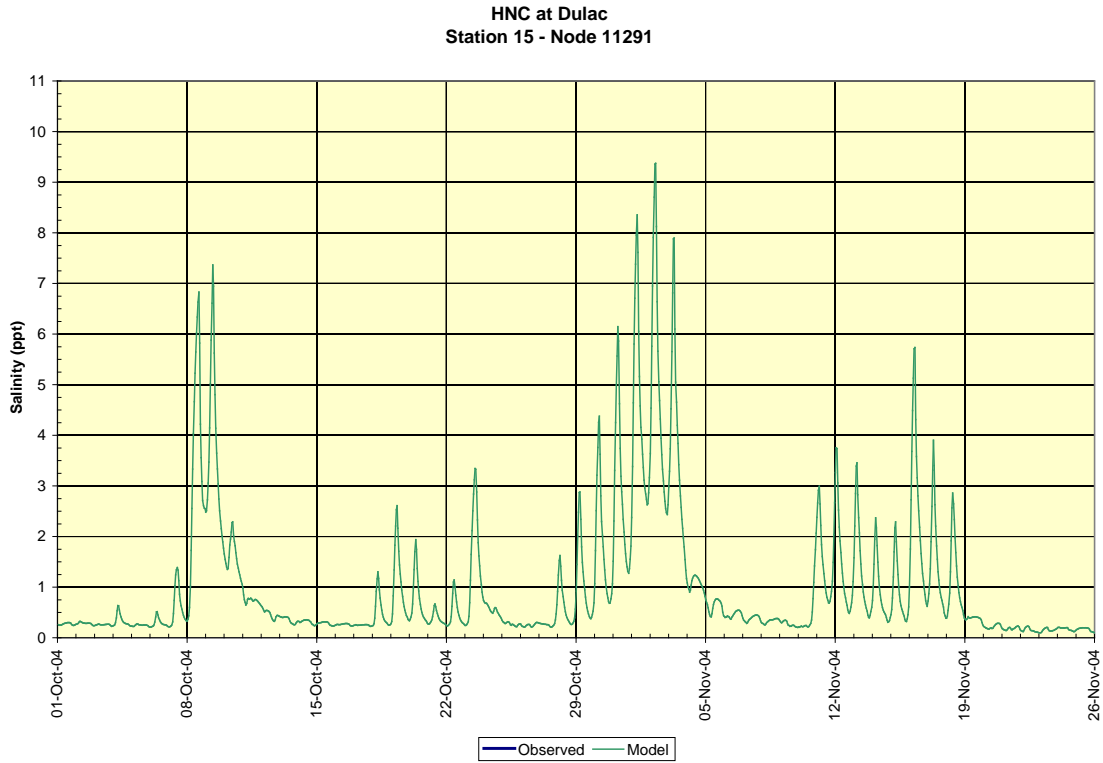


Figure L2-50 - RMA-11 calibration plot for Station 15

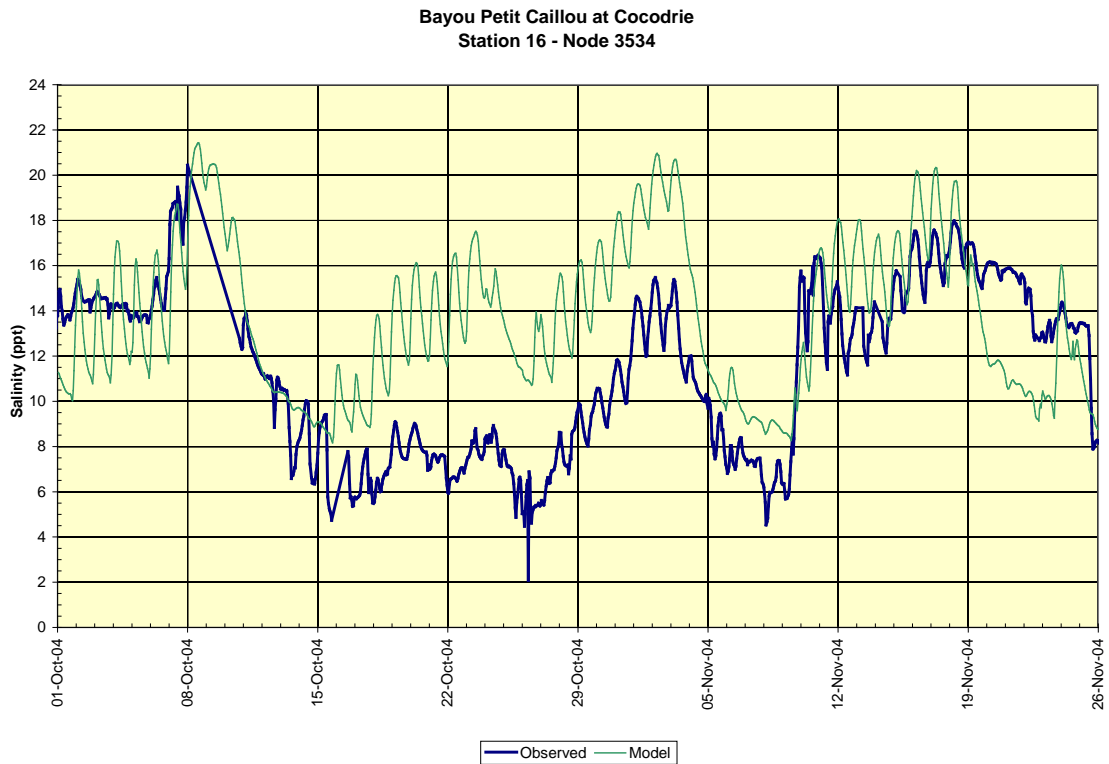
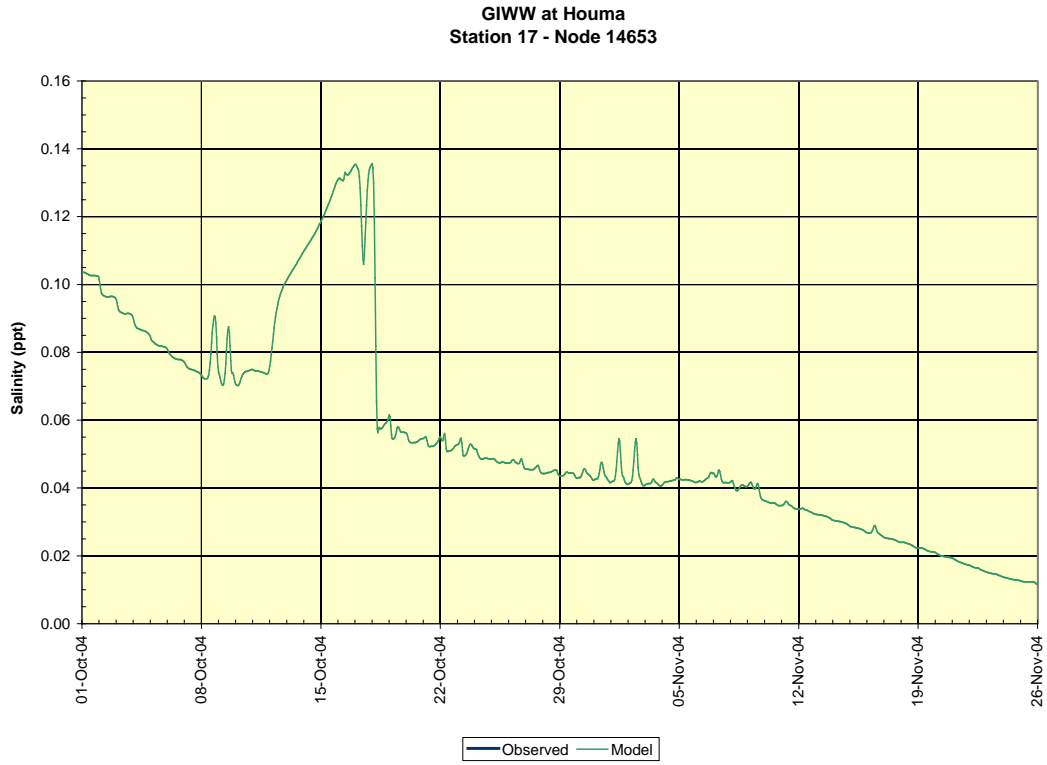


Figure L2-51 - RMA-11 calibration plot for Station 16



1170

Figure L2-52 - RMA-11 calibration plot for Station 17

RMA-2 Flow Change Results

(See Section L2-4.5 for an explanation of these figures and tables.)

1175

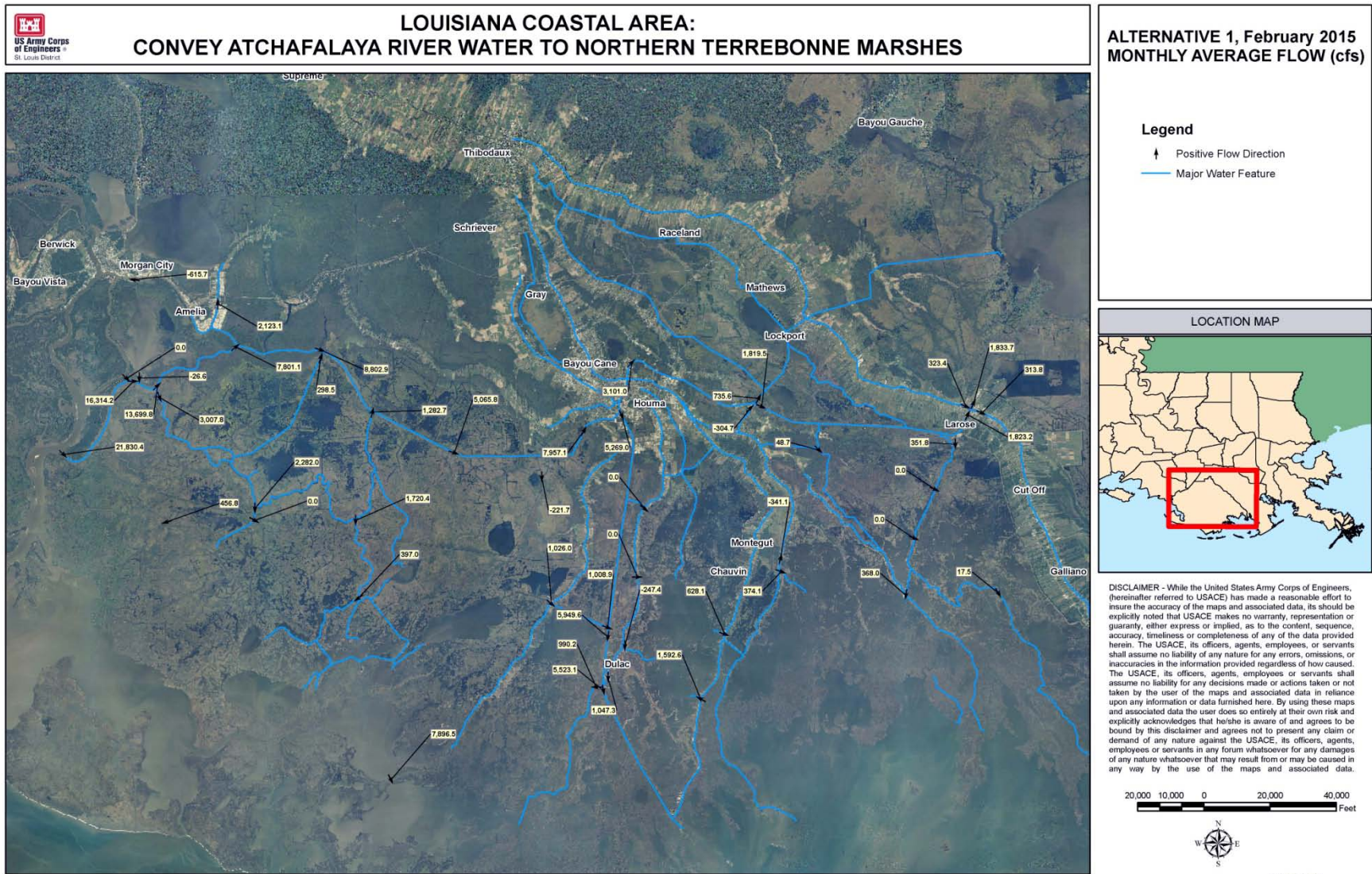


Figure L2-53 – Flow for Alternative 1, February 2015

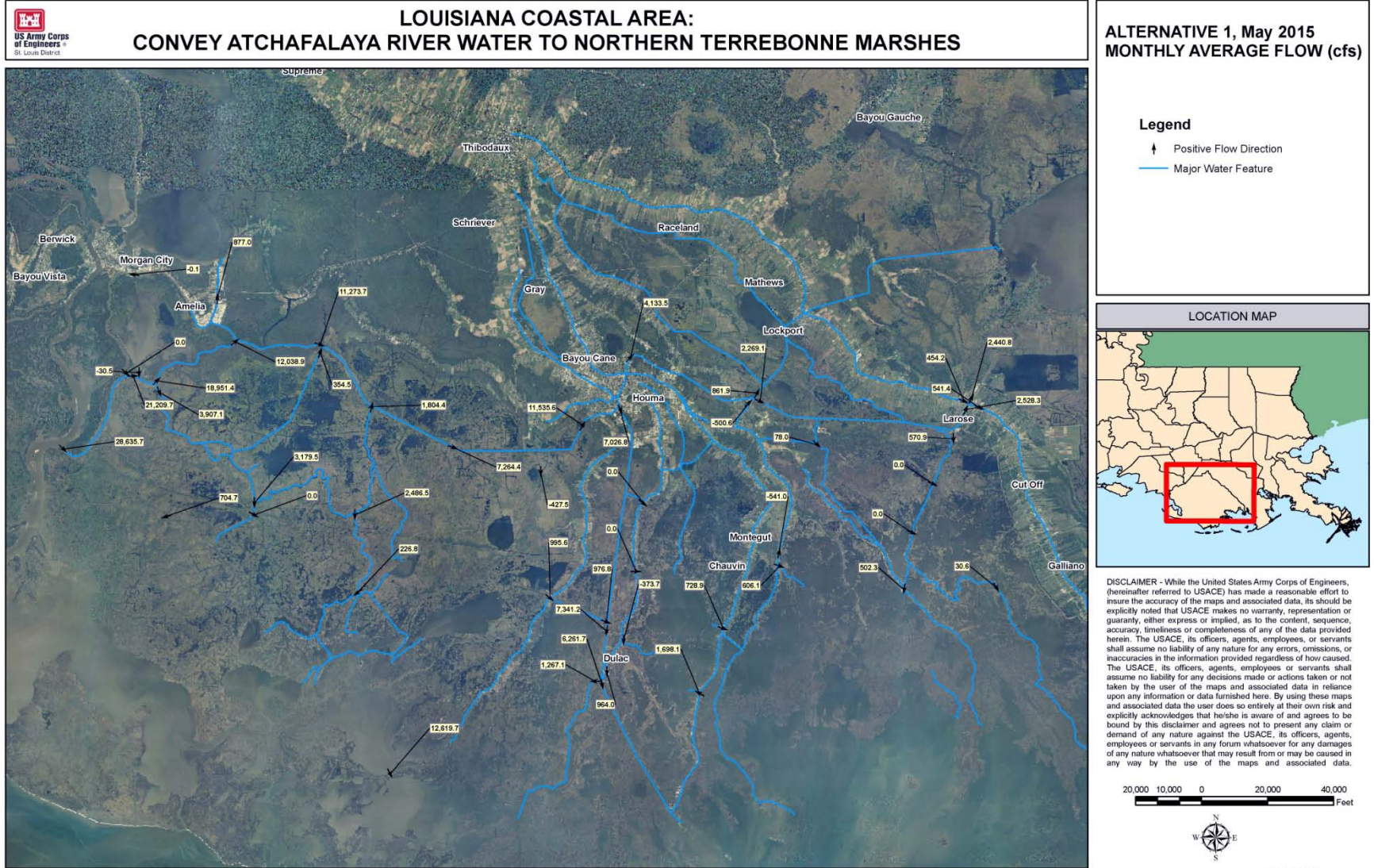
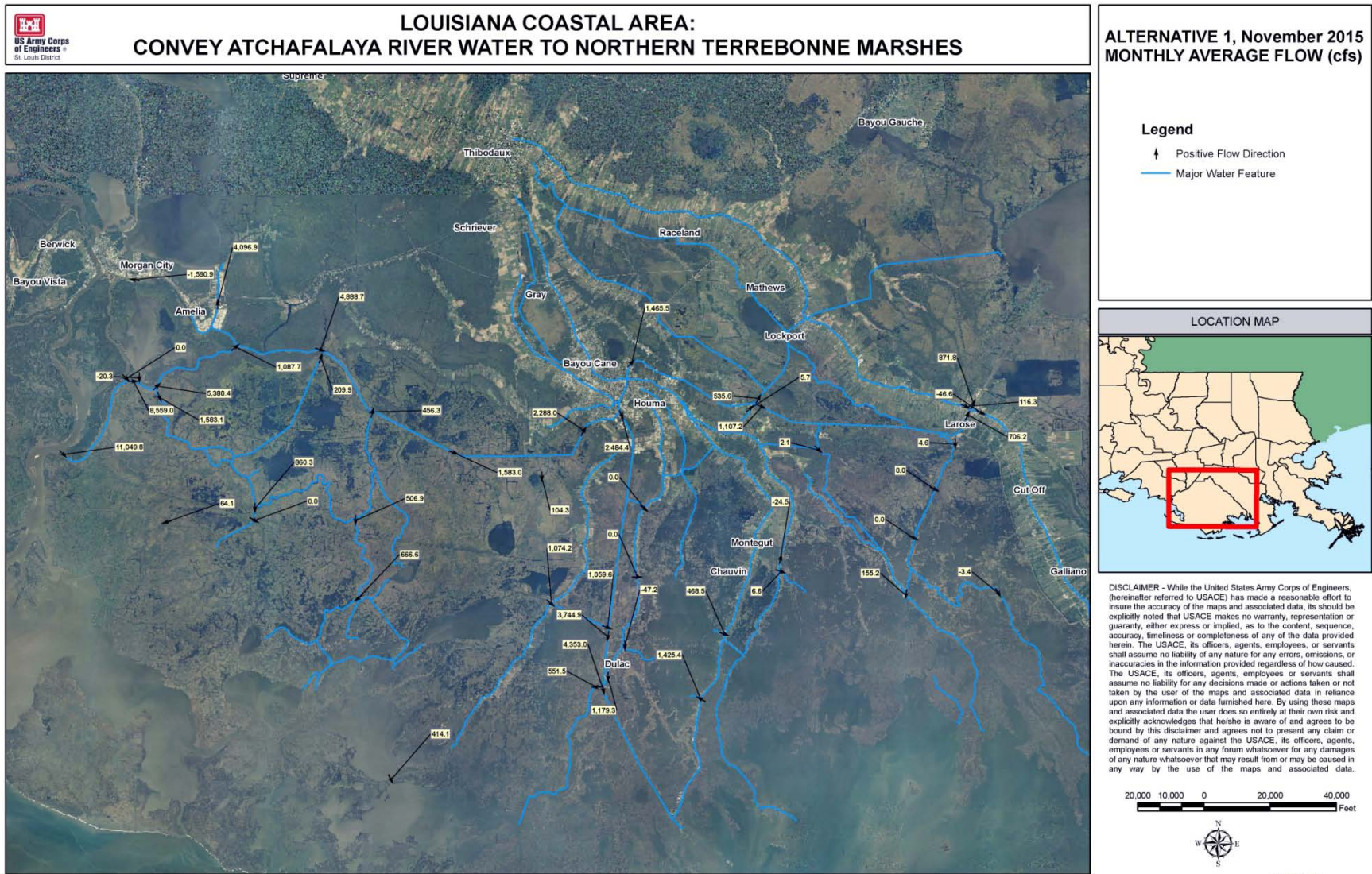


Figure L2-54 - Flow for Alternative 1, May 2015



1180

Figure L2-55 - Flow for Alternative 1, November 2015

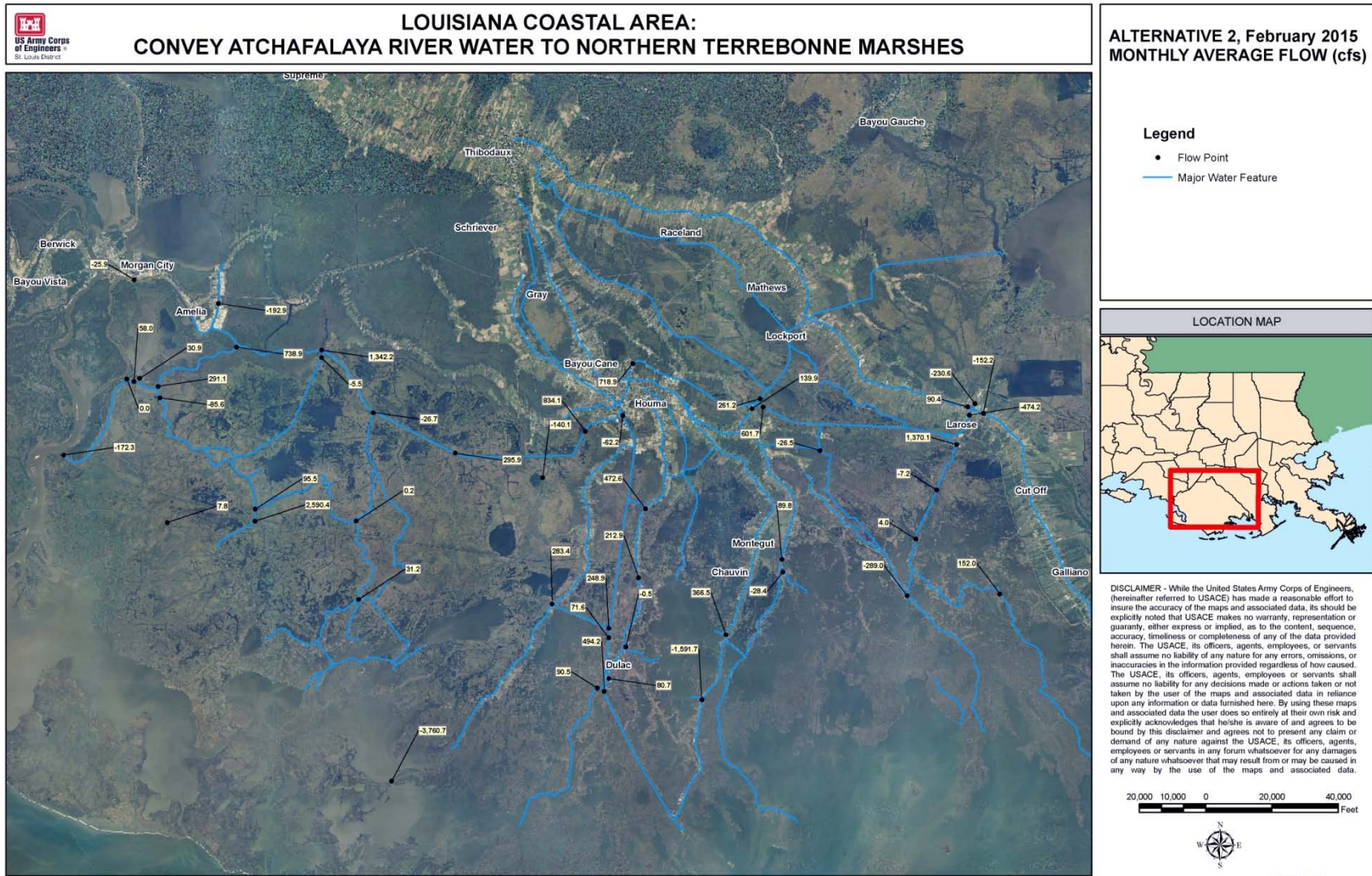
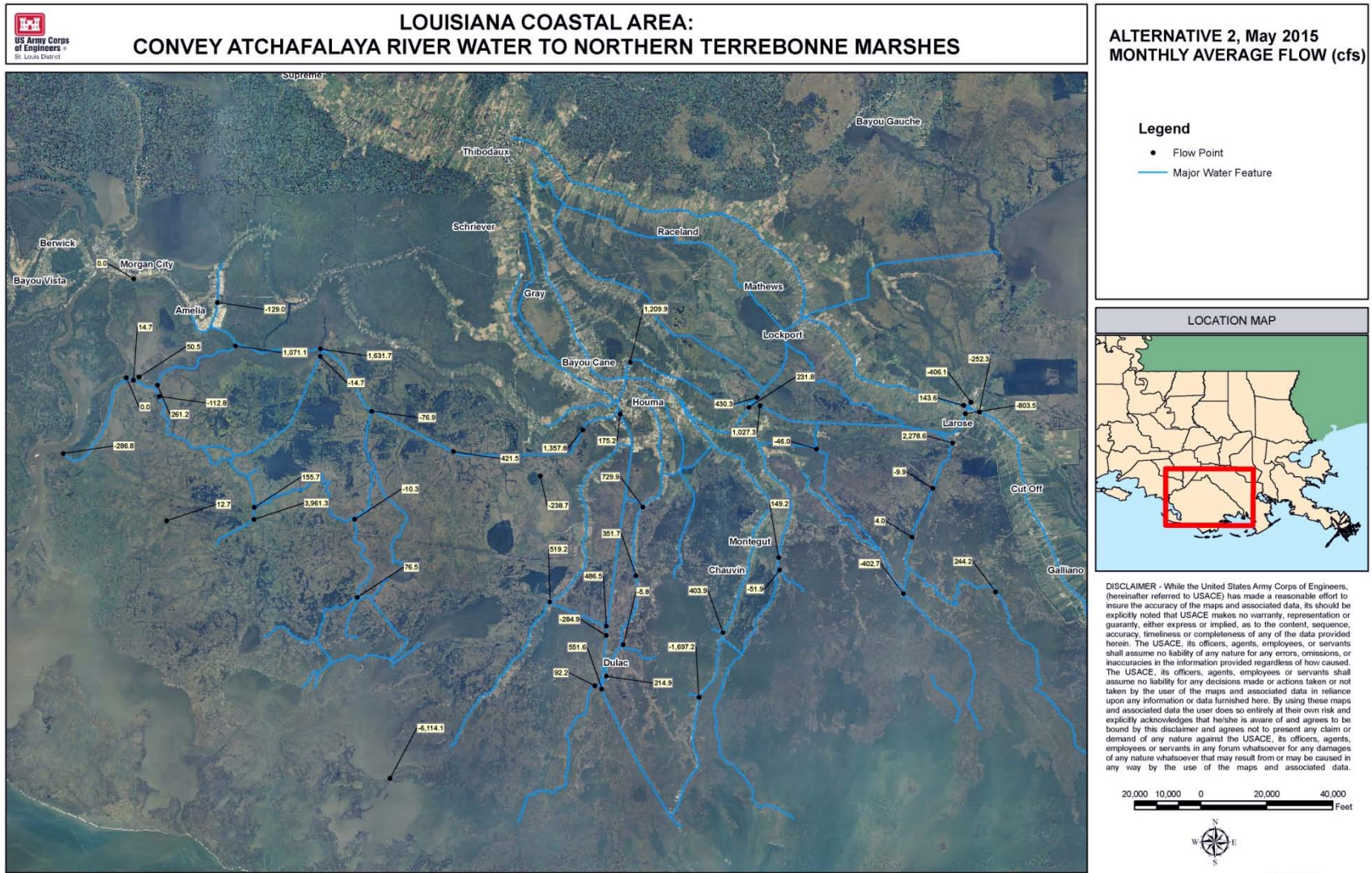


Figure L2-56 - Flow change for Alternative 2, February 2015



1185 Figure L2-57 - Flow change for Alternative 2, May 2015

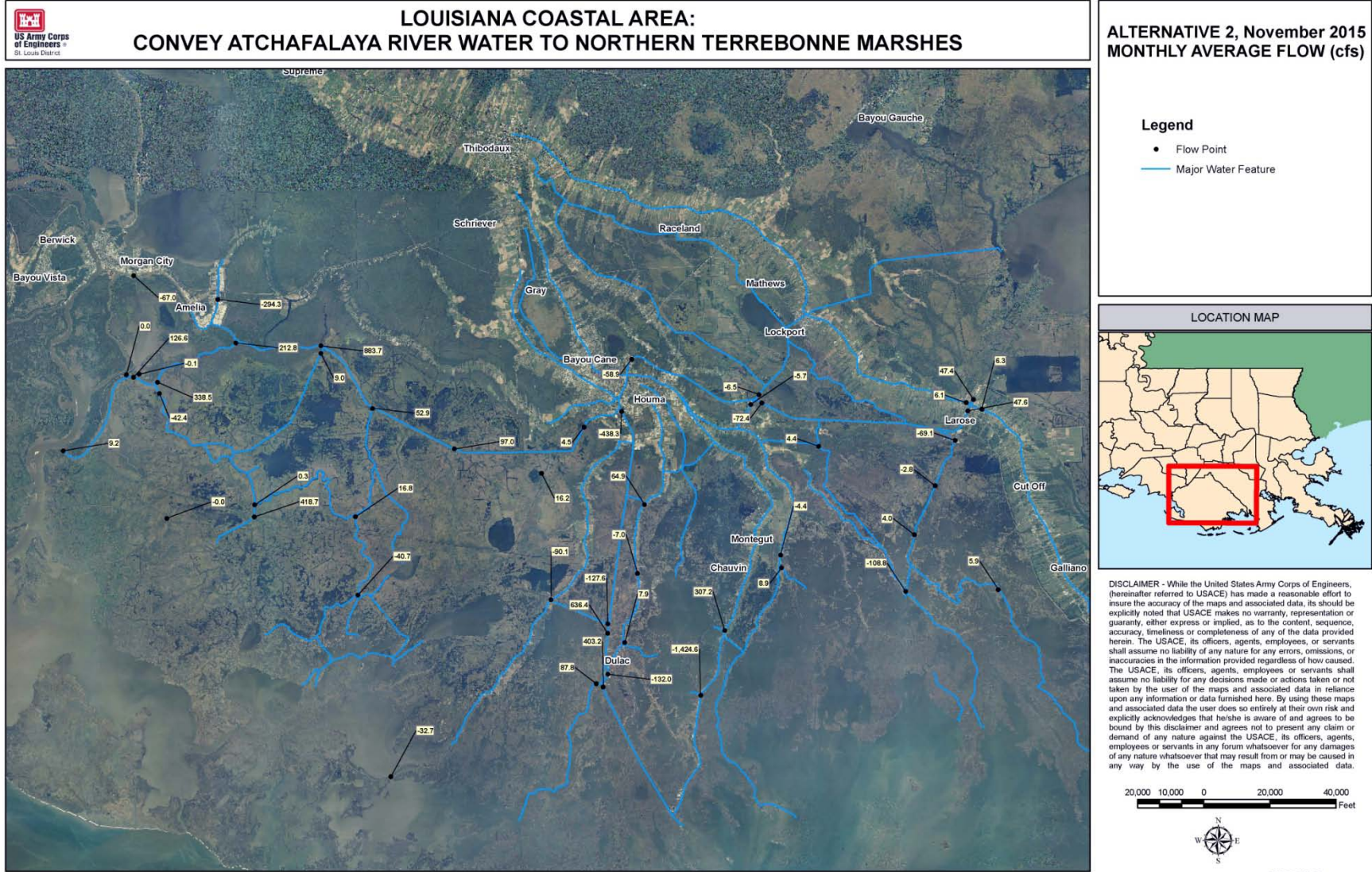


Figure L2-58 - Flow change for Alternative 2, November 2015

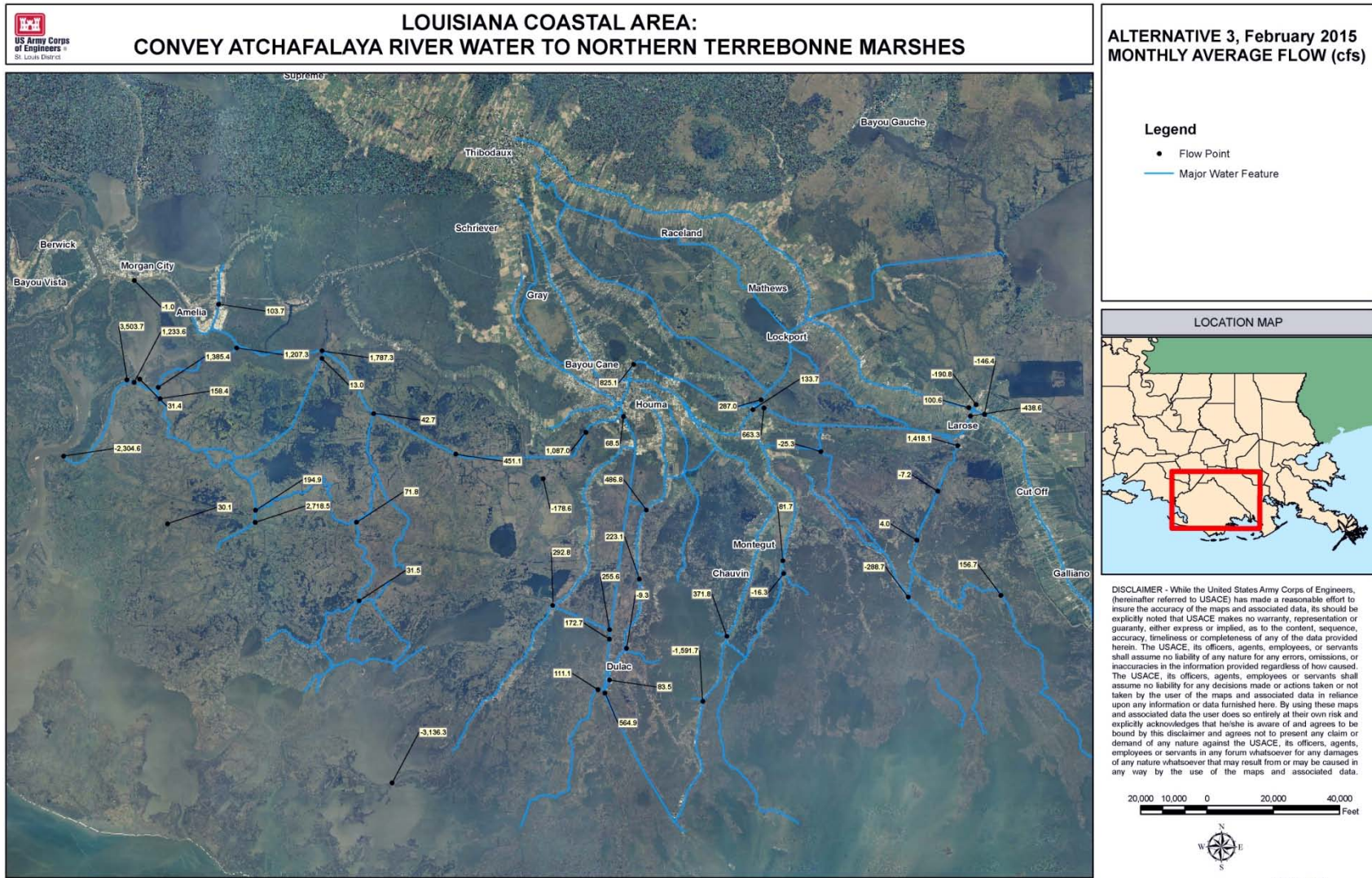
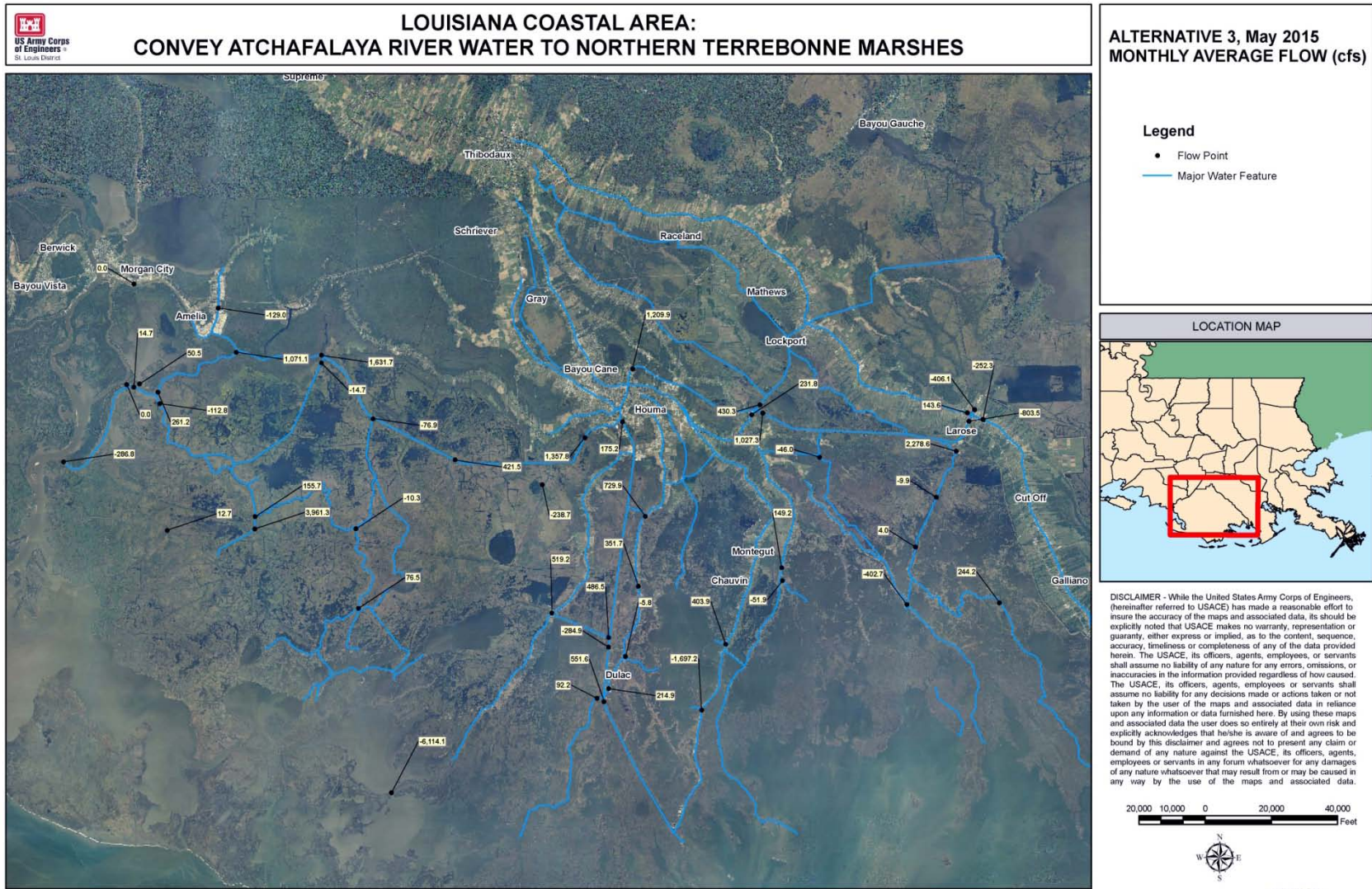


Figure L2-59 - Flow change for Alternative 3, February 2015



1190

Figure L2-60 - Flow change for Alternative 3, May 2015

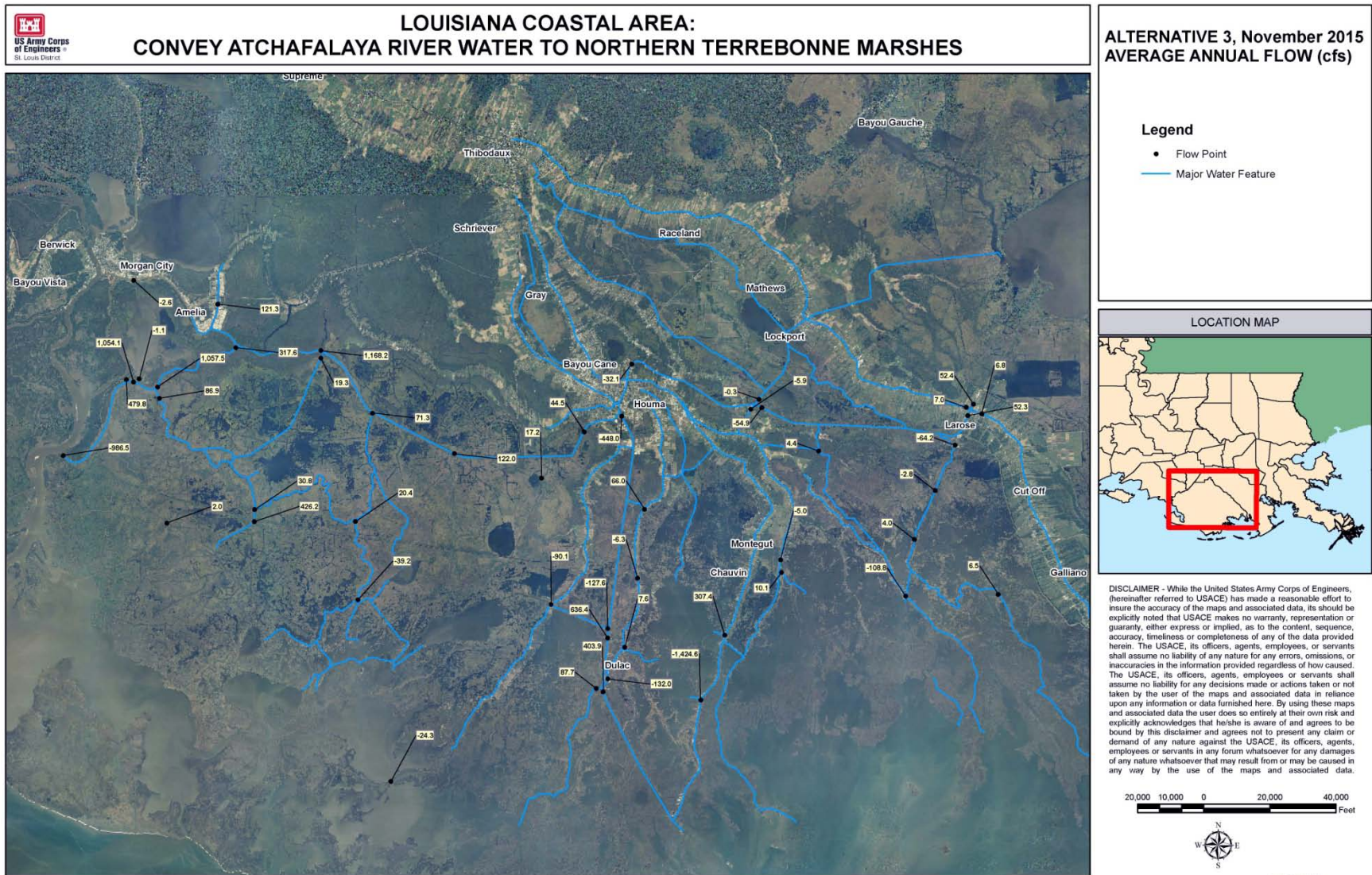
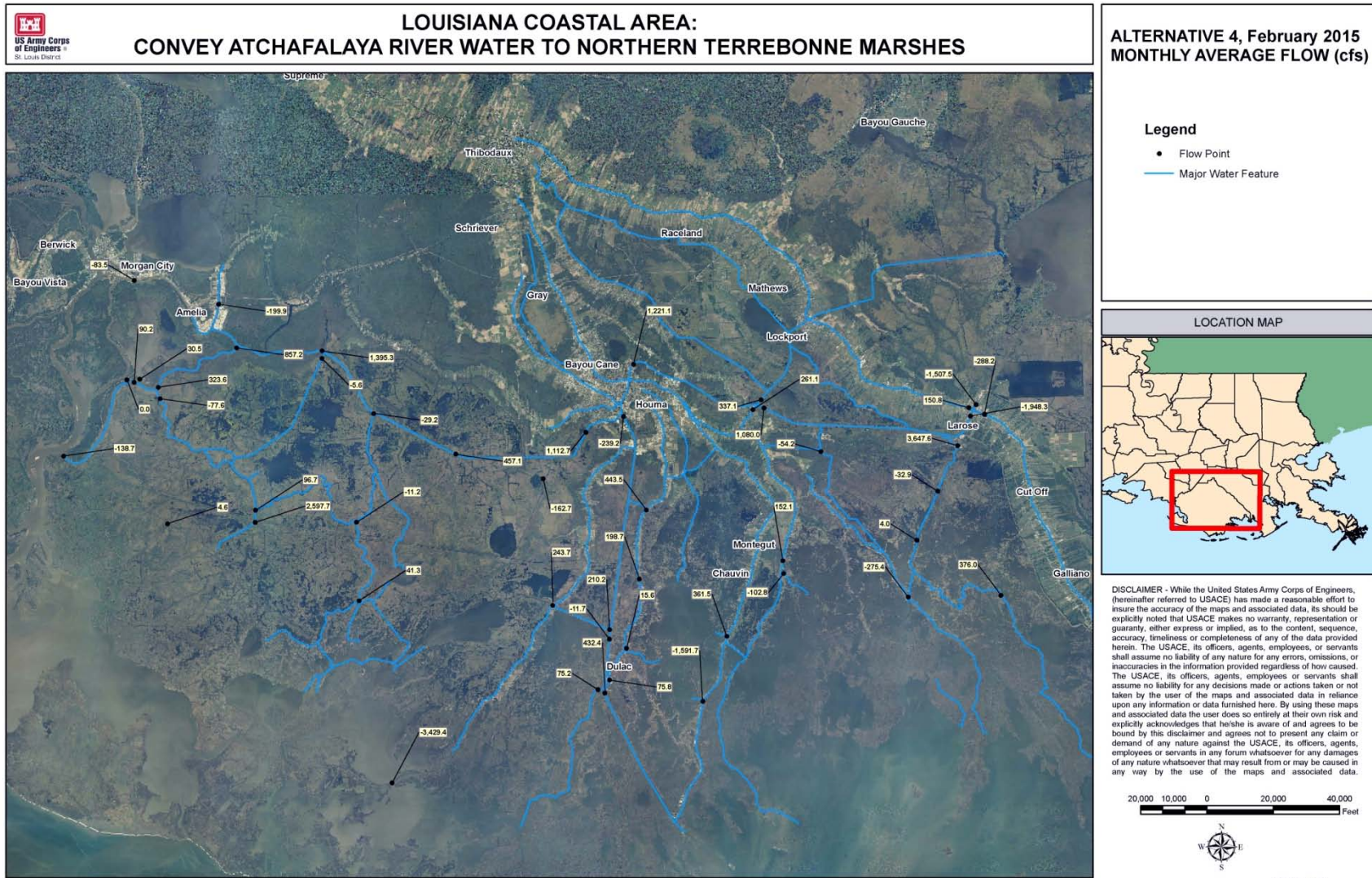


Figure L2-61 - Flow change for Alternative 3, November 2015



1195 Figure L2-62 - Flow change for Alternative 4, February 2015

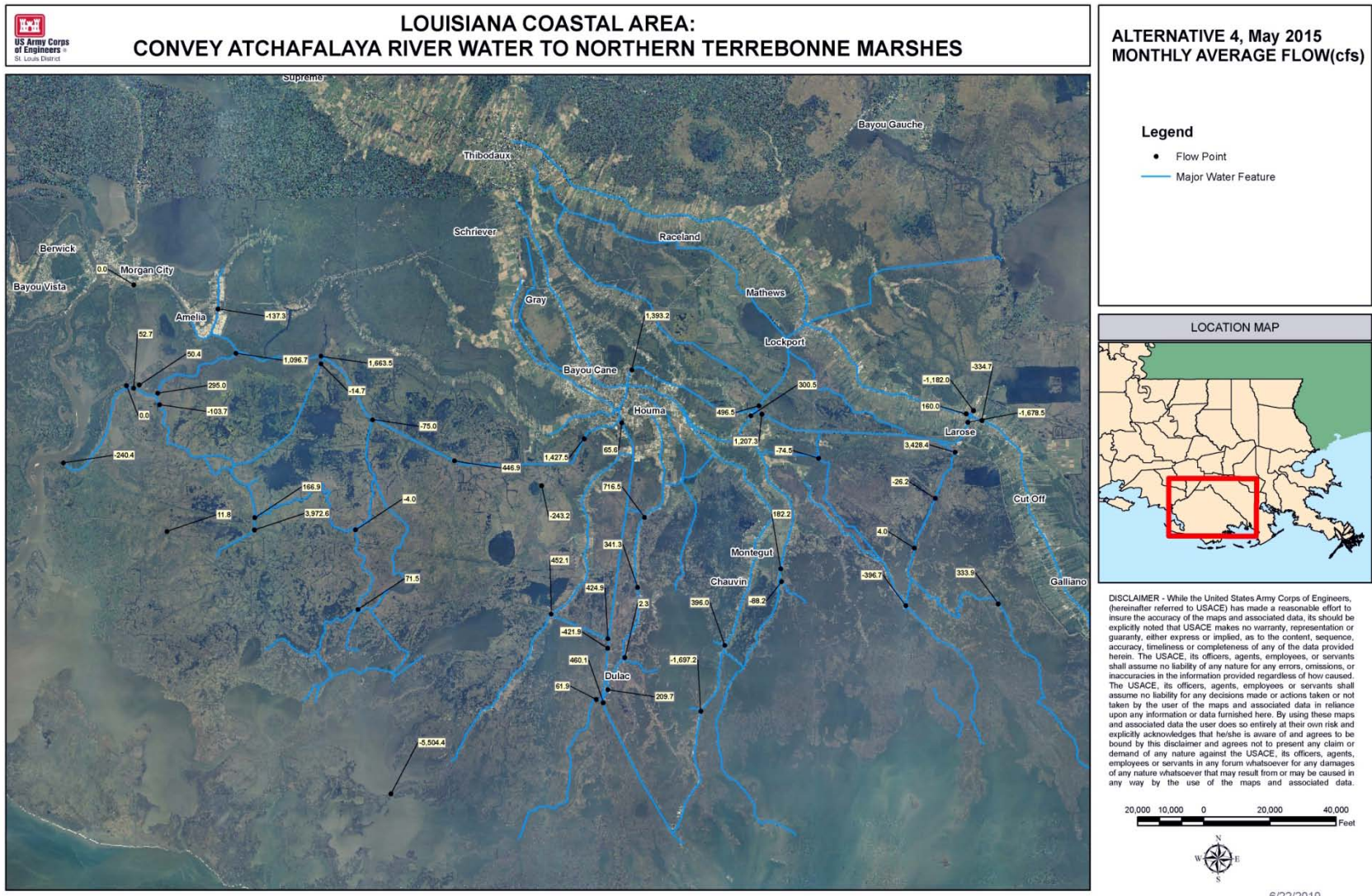


Figure L2-63 - Flow change for Alternative 4, May 2015

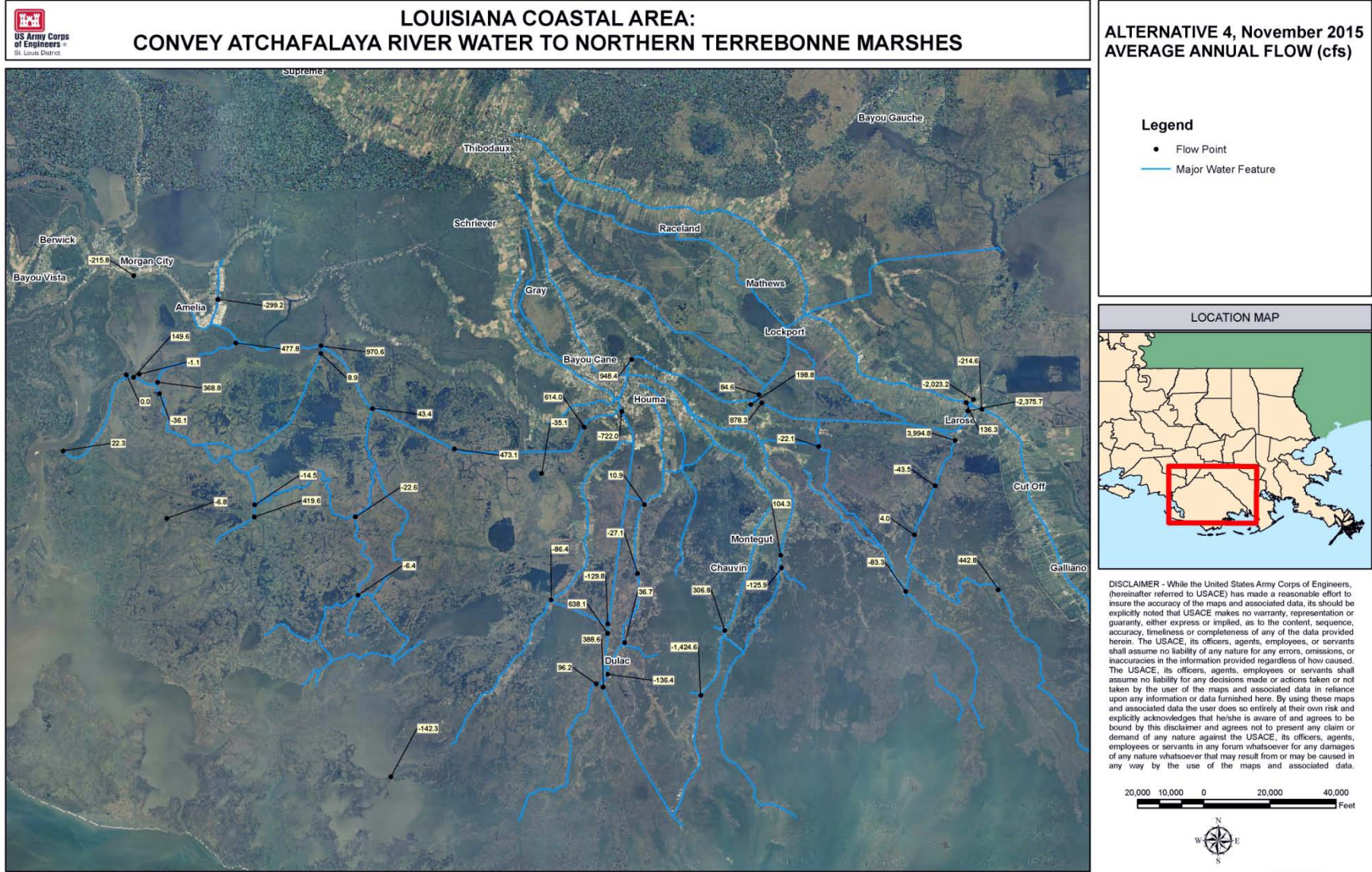
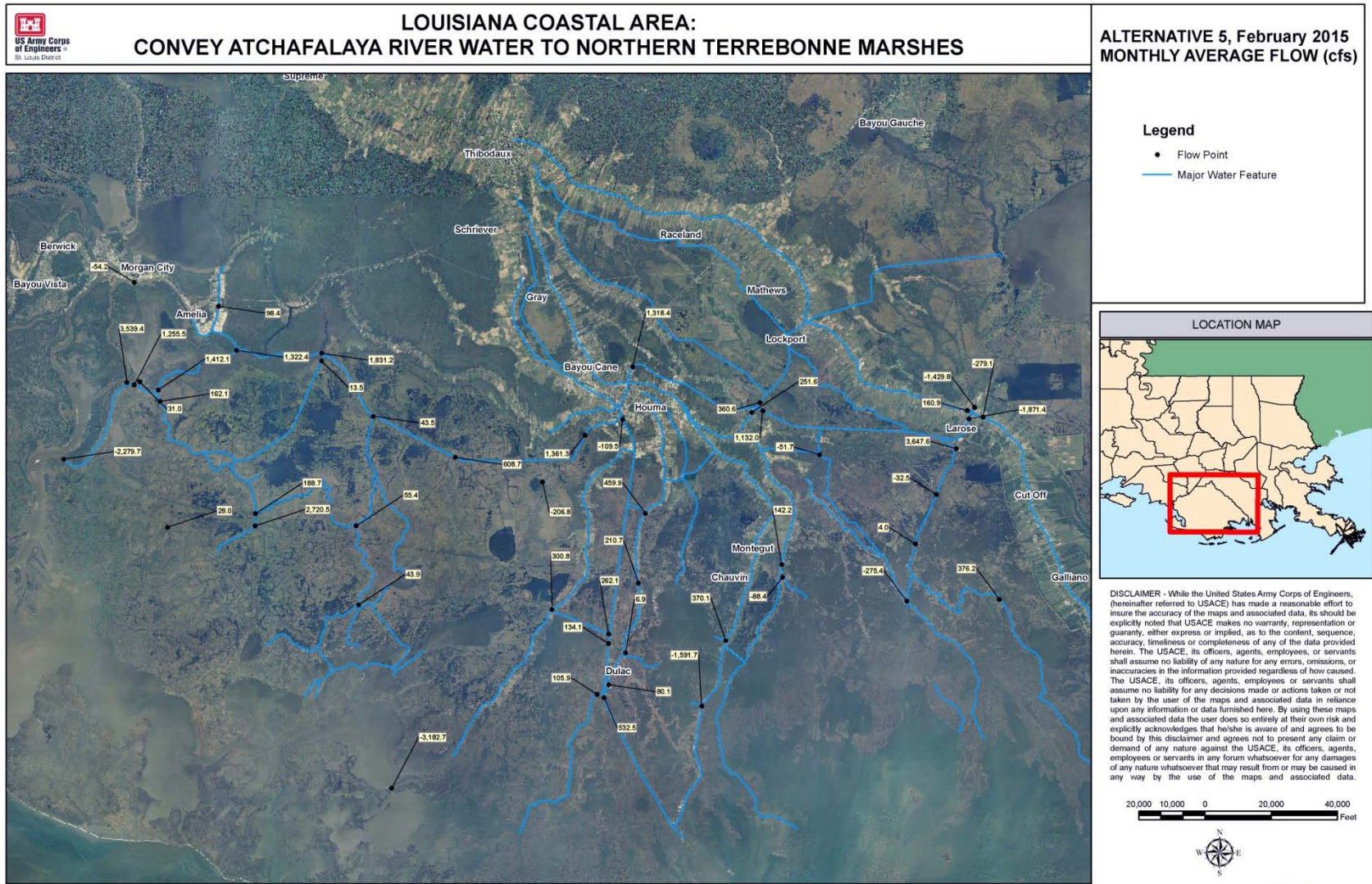


Figure L2-64 - Flow change for Alternative 4, November 2015



1200

Figure L2-65 - Flow change for Alternative 5, February 2015

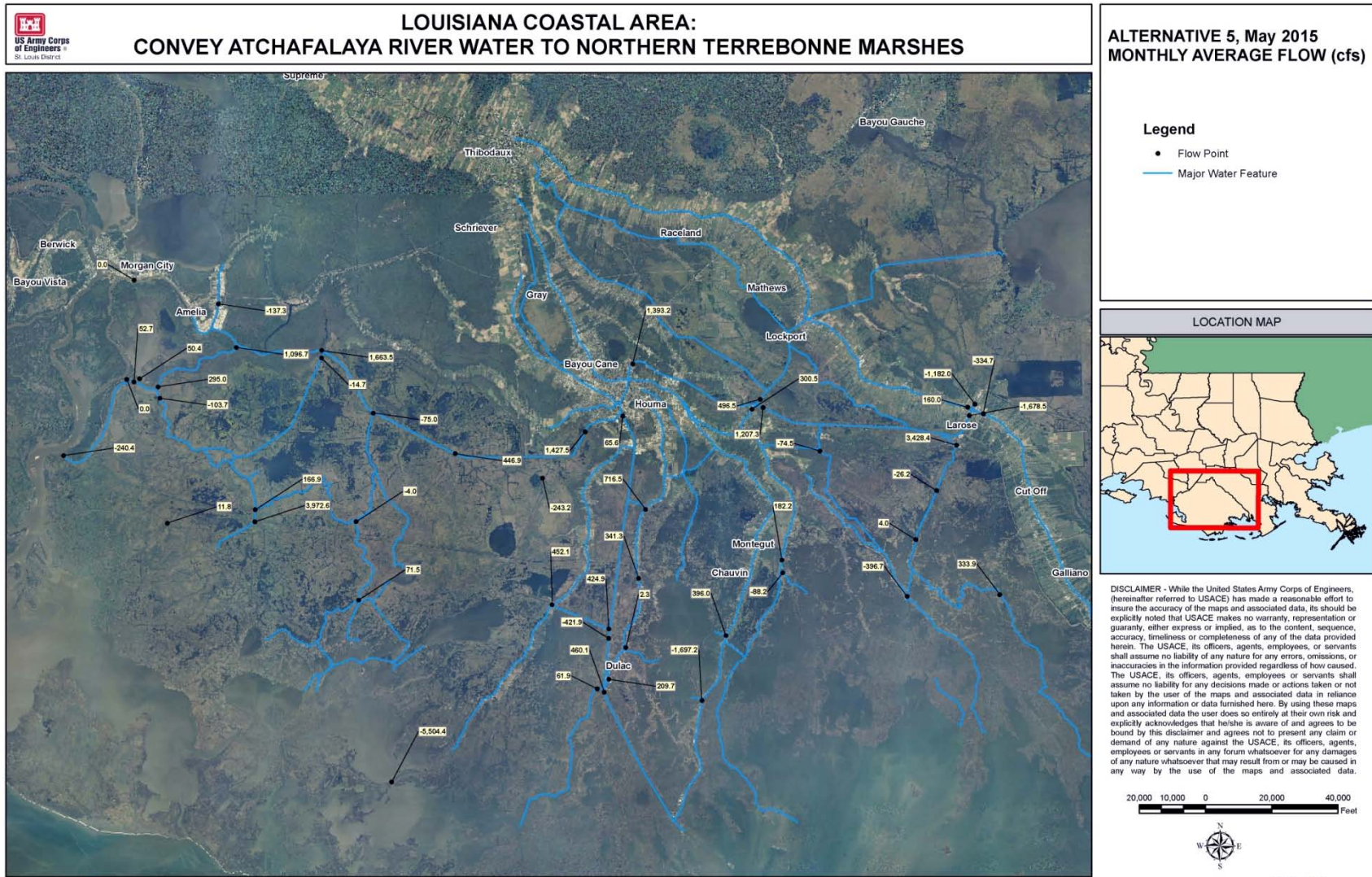
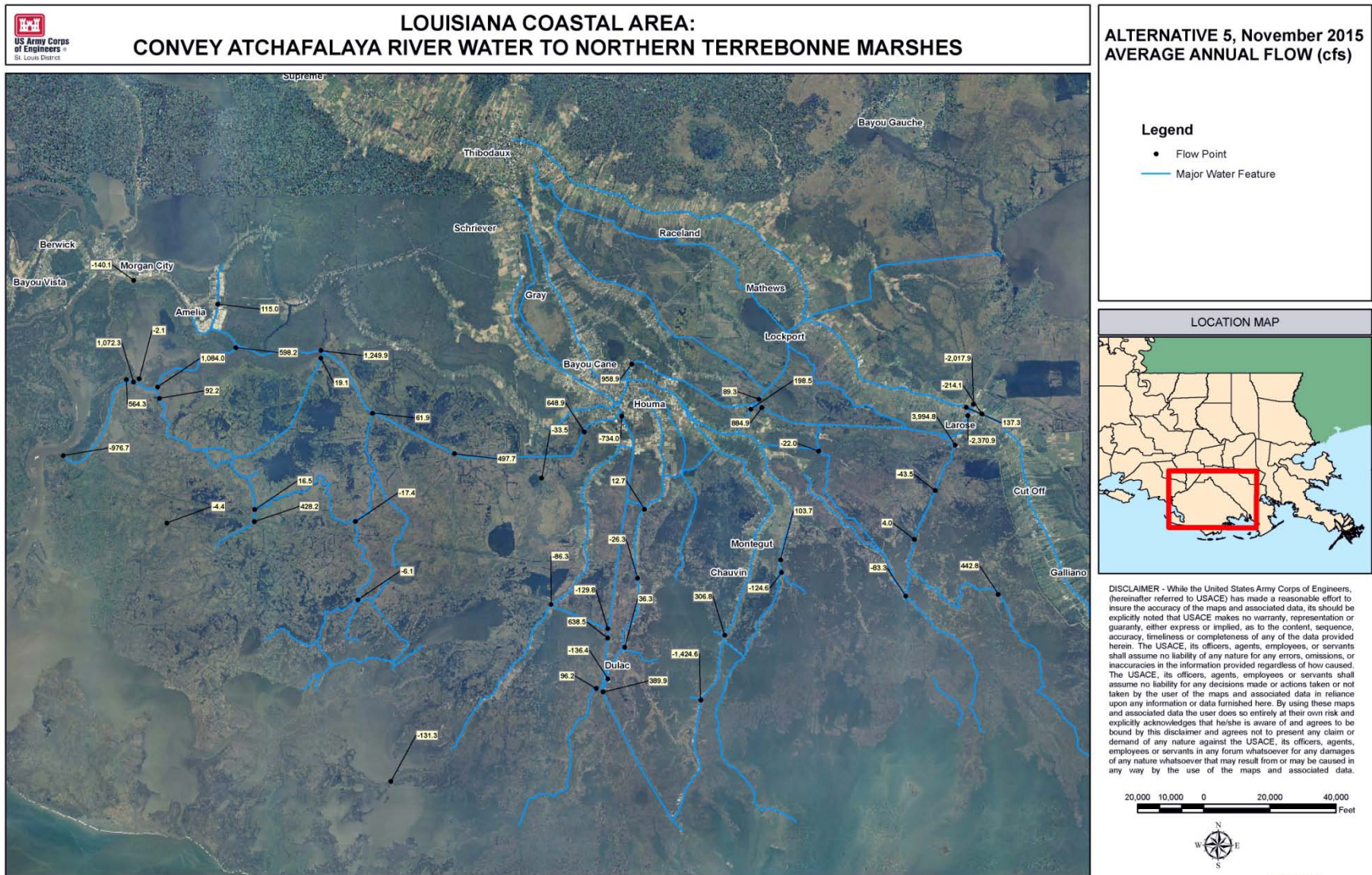


Figure L2-66 - Flow change for Alternative 5, May 2015



1205 Figure L2-67 - Flow change for Alternative 5, November 2015

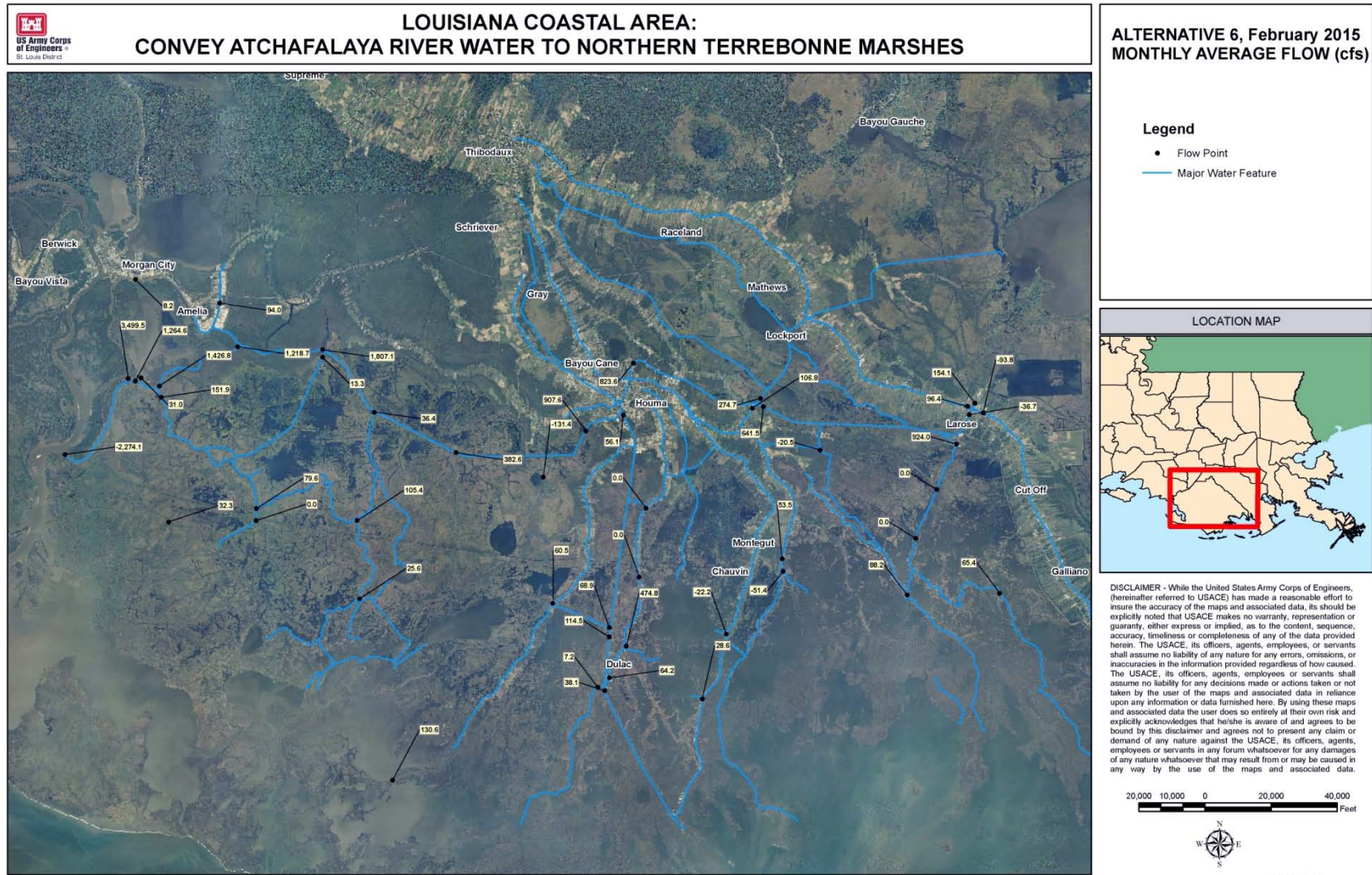


Figure L2-68 - Flow change for Alternative 6, February 2015

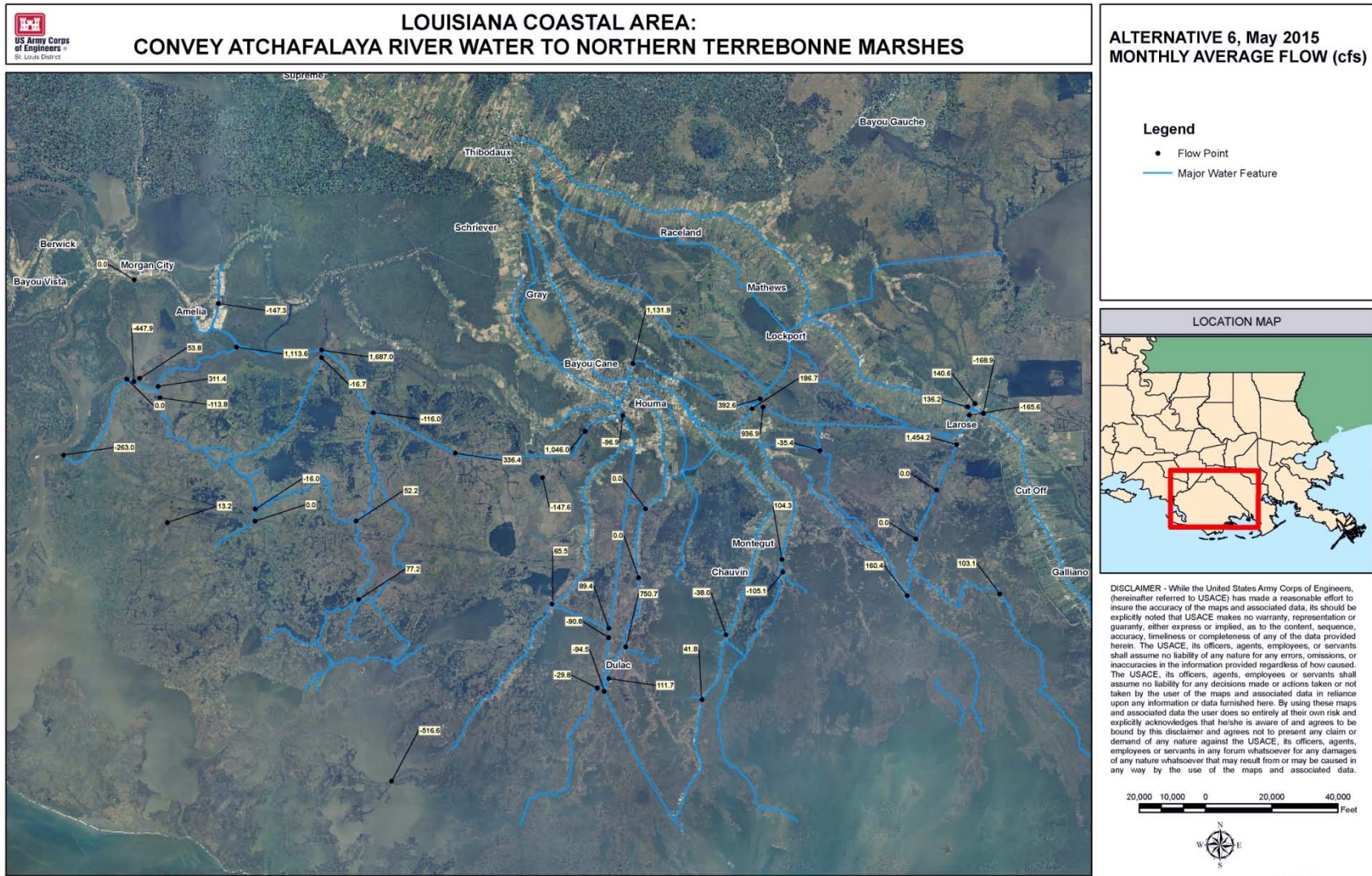
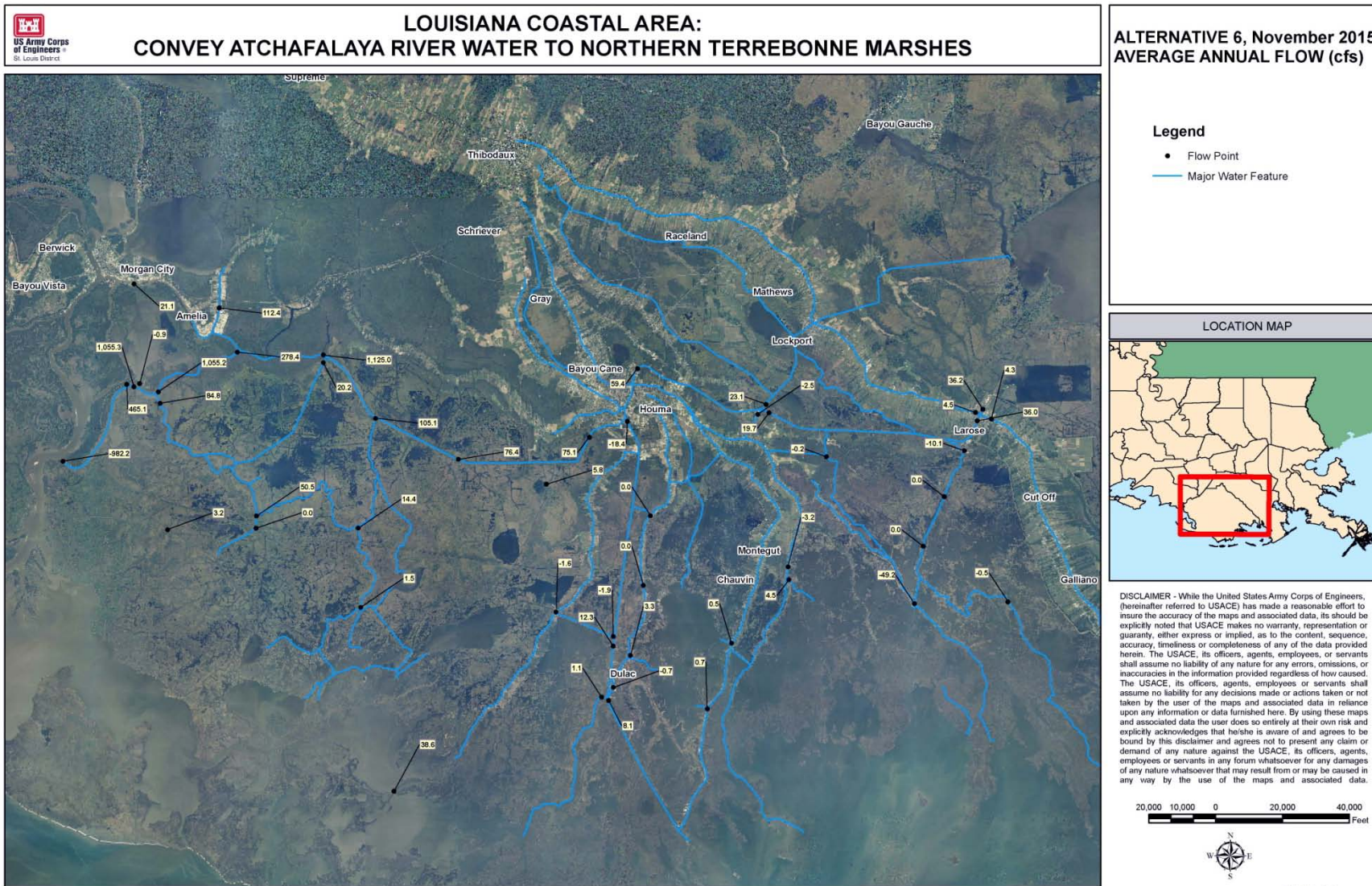


Figure L2-69 - Flow change for Alternative 6, May 2015



1210

Figure L2-70 - Flow change for Alternative 6, November 2015

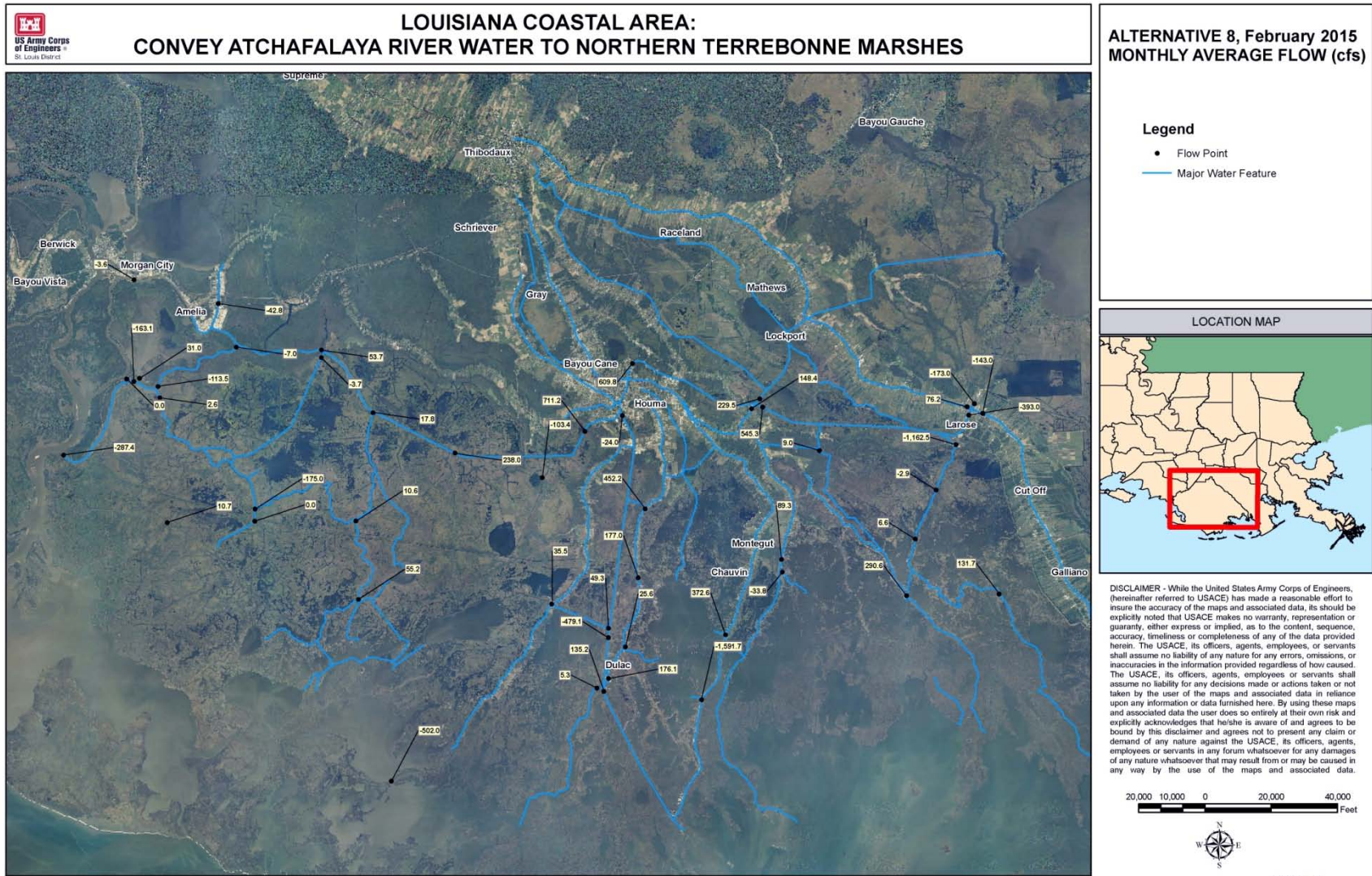
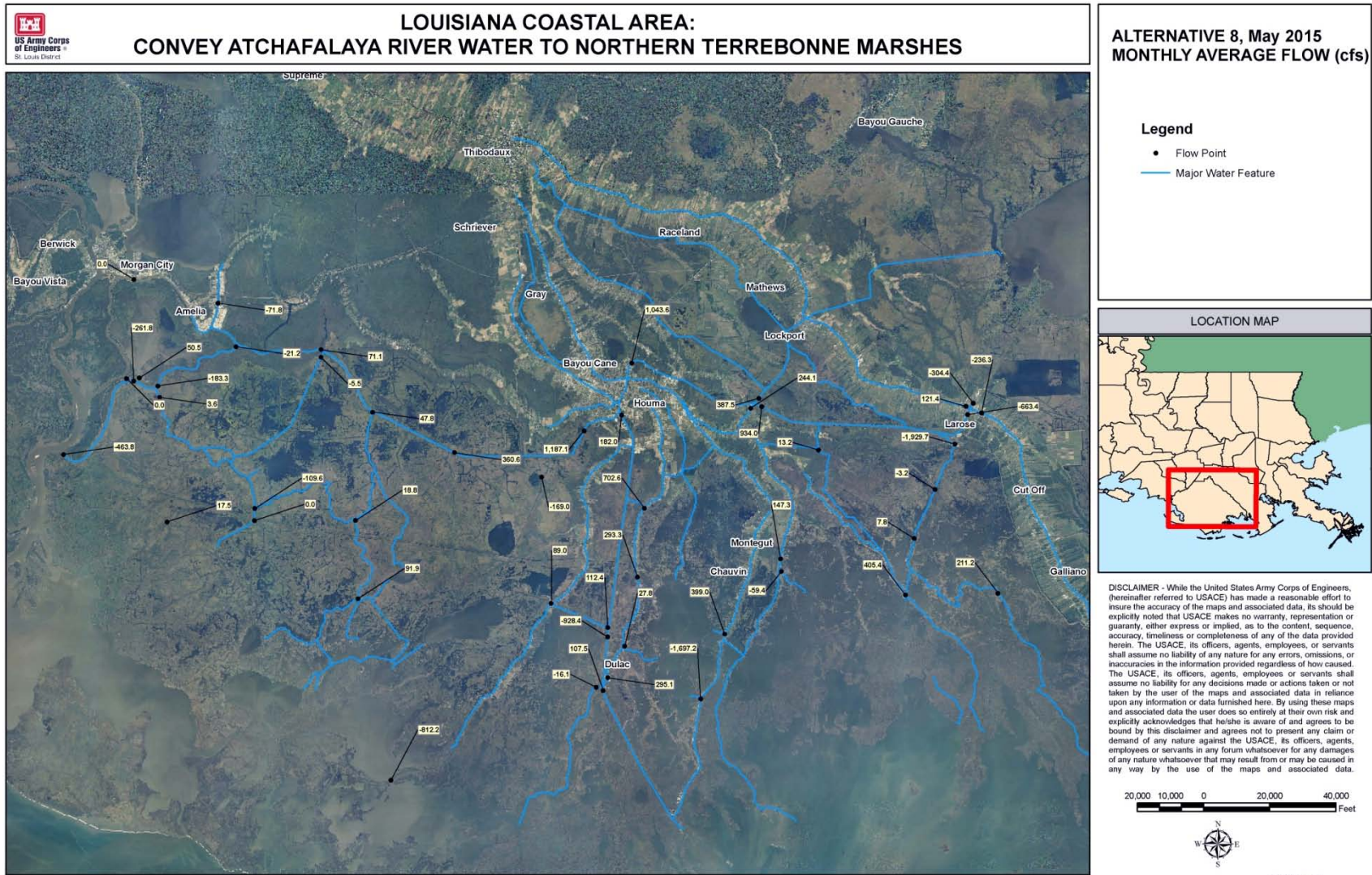


Figure L2-71 - Flow change for Alternative 8, February 2015



1215 Figure L2-72 - Flow change for Alternative 8, May 2015

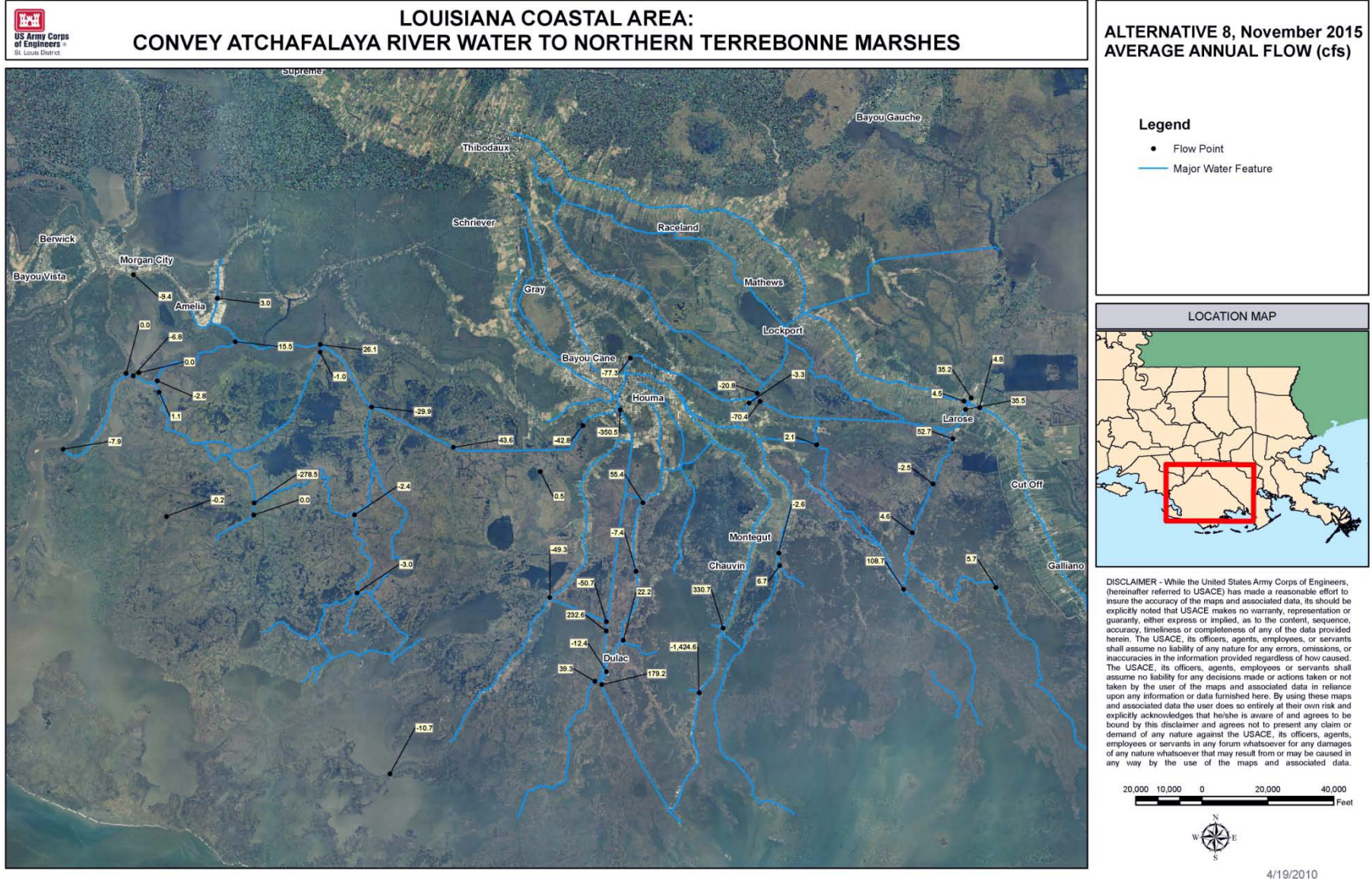


Figure L2-73 - Flow change for Alternative 8, November 2015

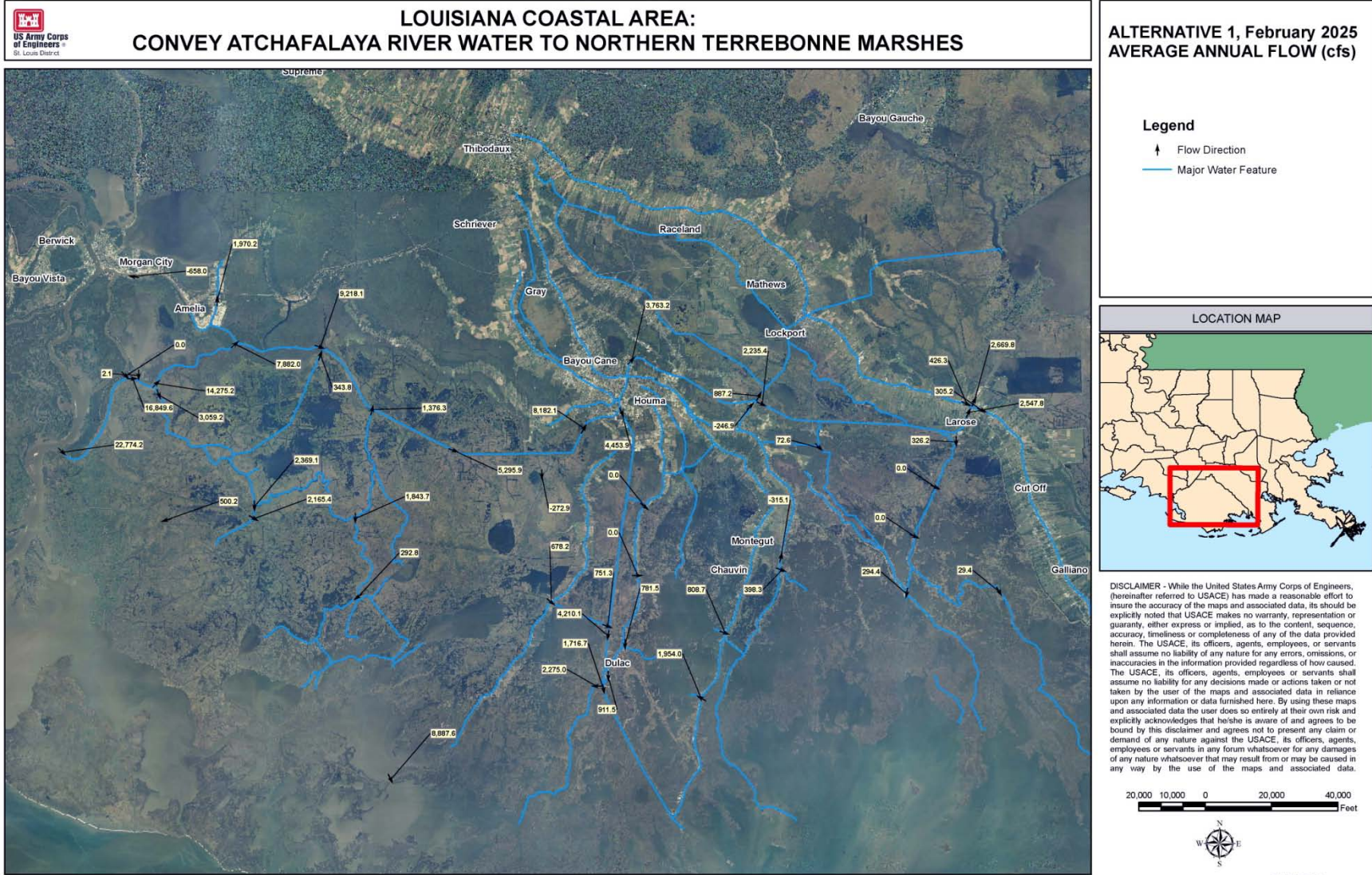
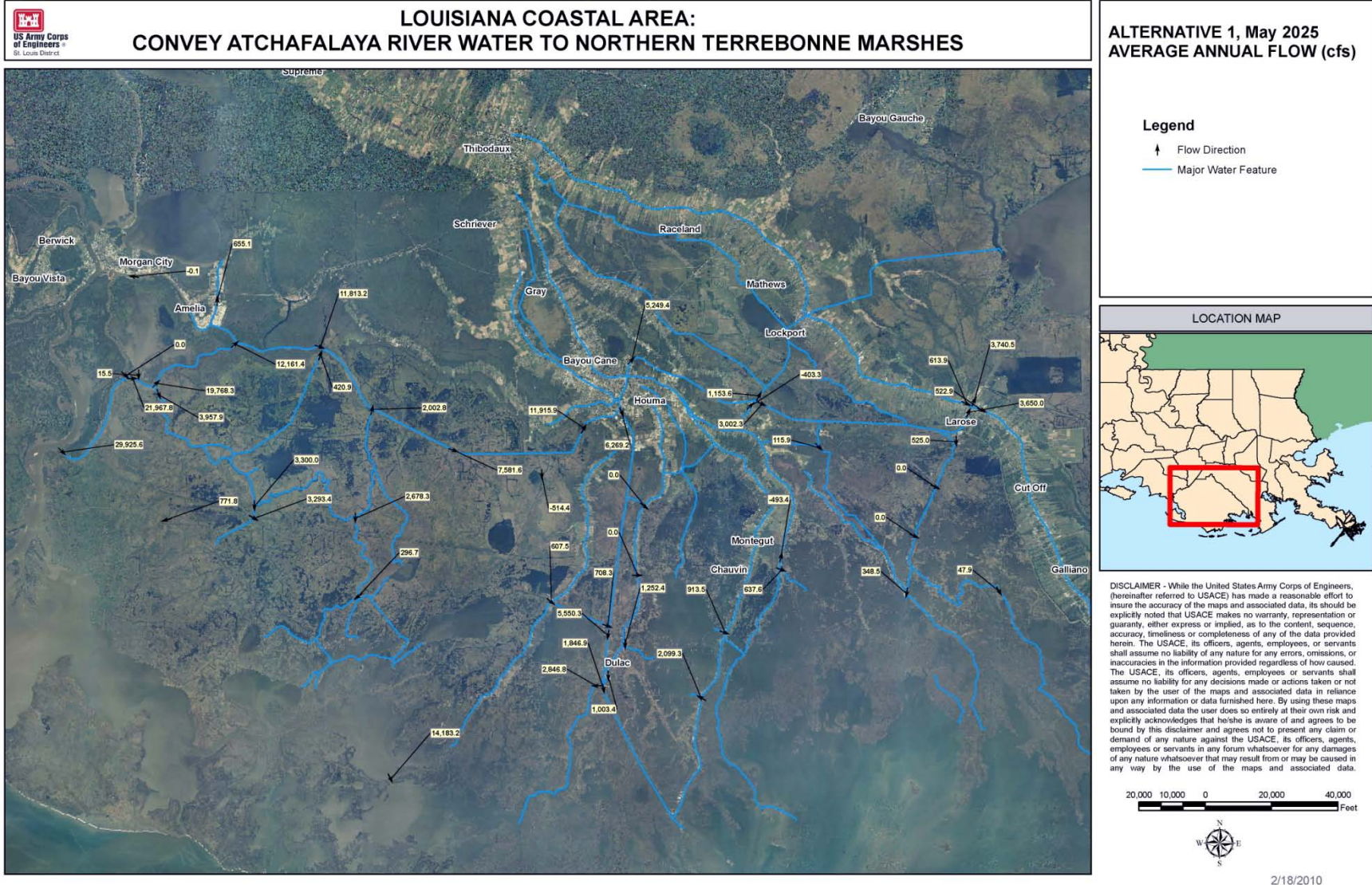


Figure L2-74 - Flow for Alternative 1, February 2025



1220

Figure L2-75 - Flow for Alternative 1, May 2025

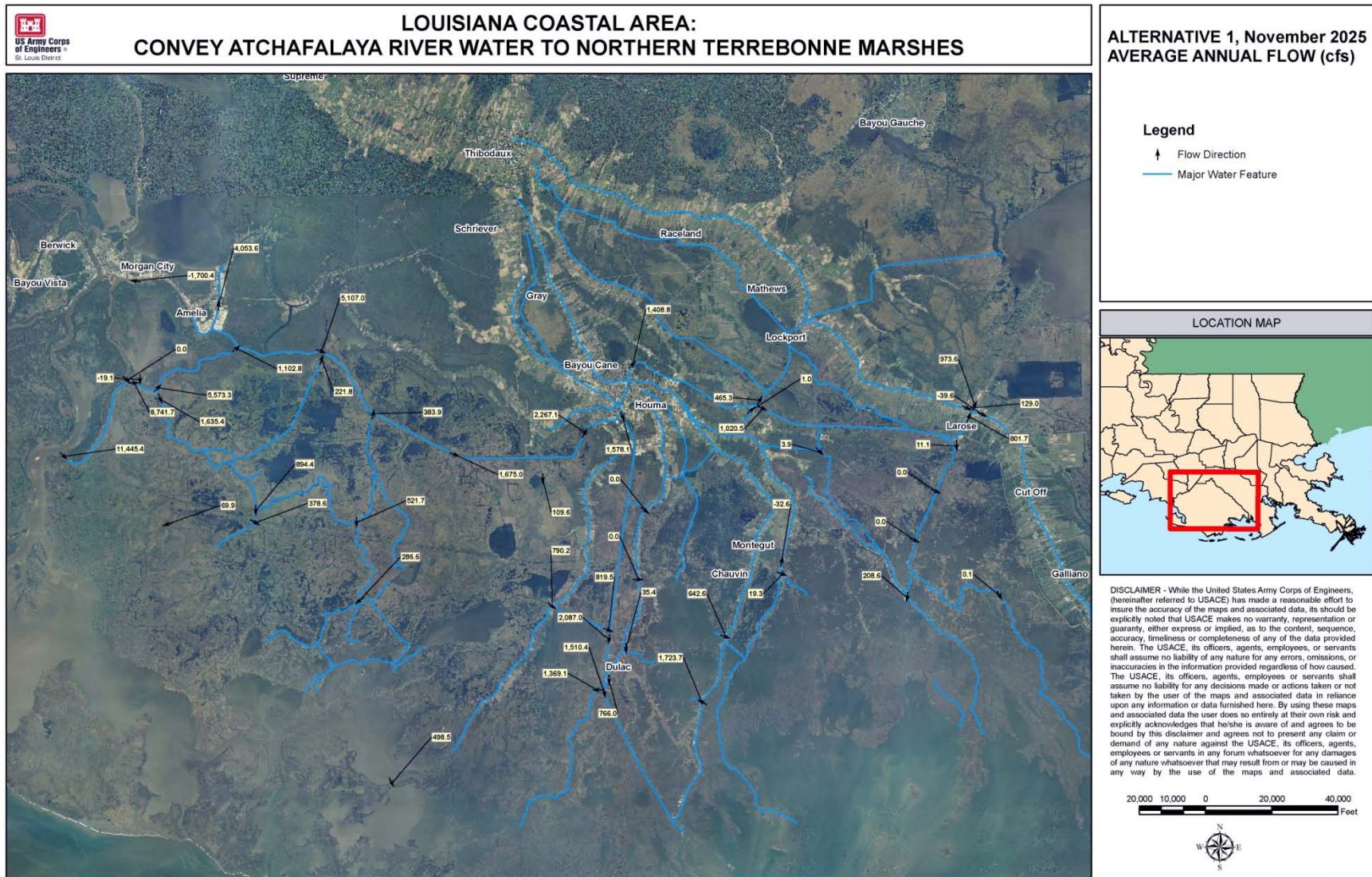
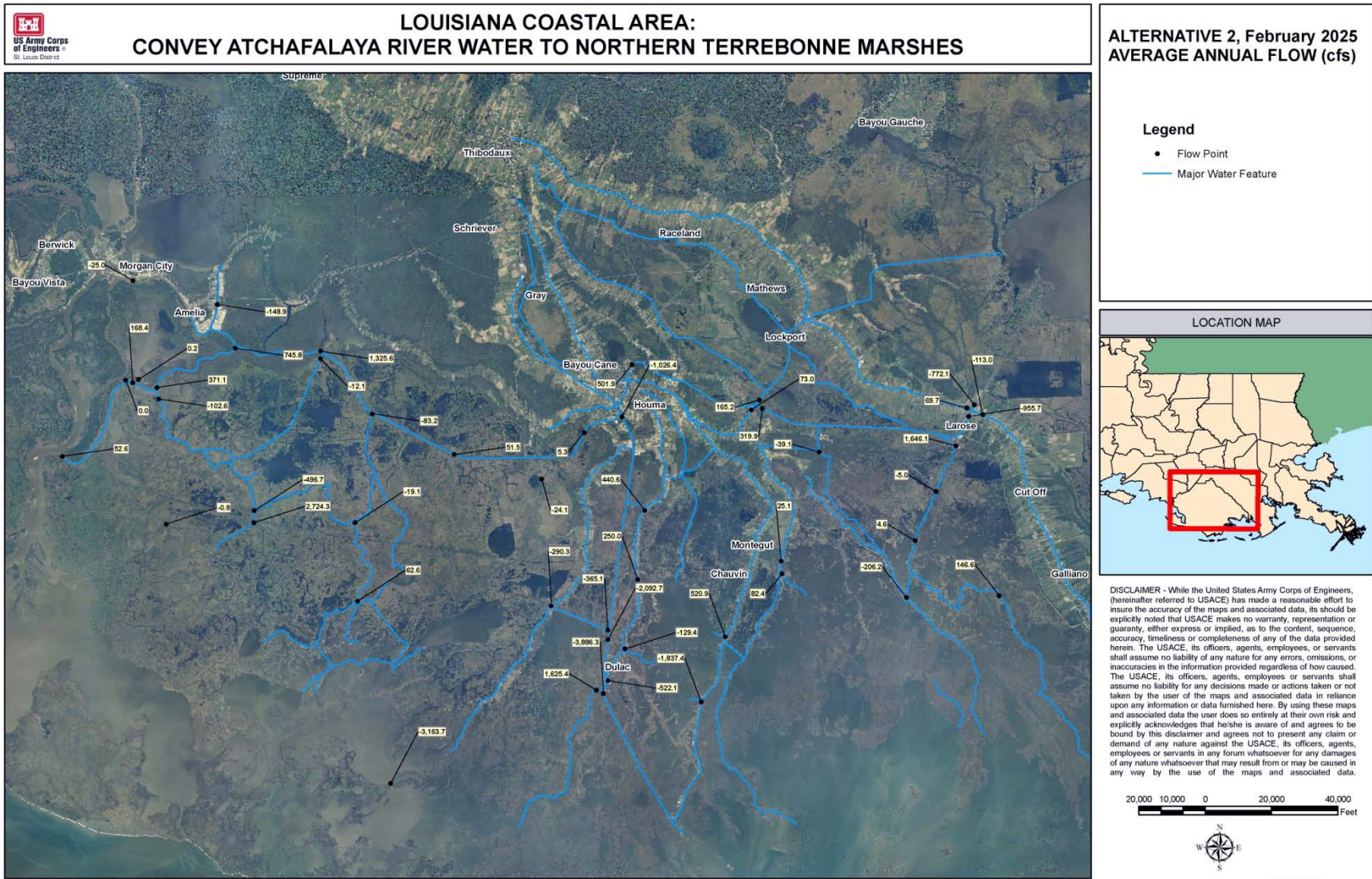


Figure L2-76 - Flow for Alternative 1, November 2025



1225 Figure L2-77 - Flow change for Alternative 2, February 2025

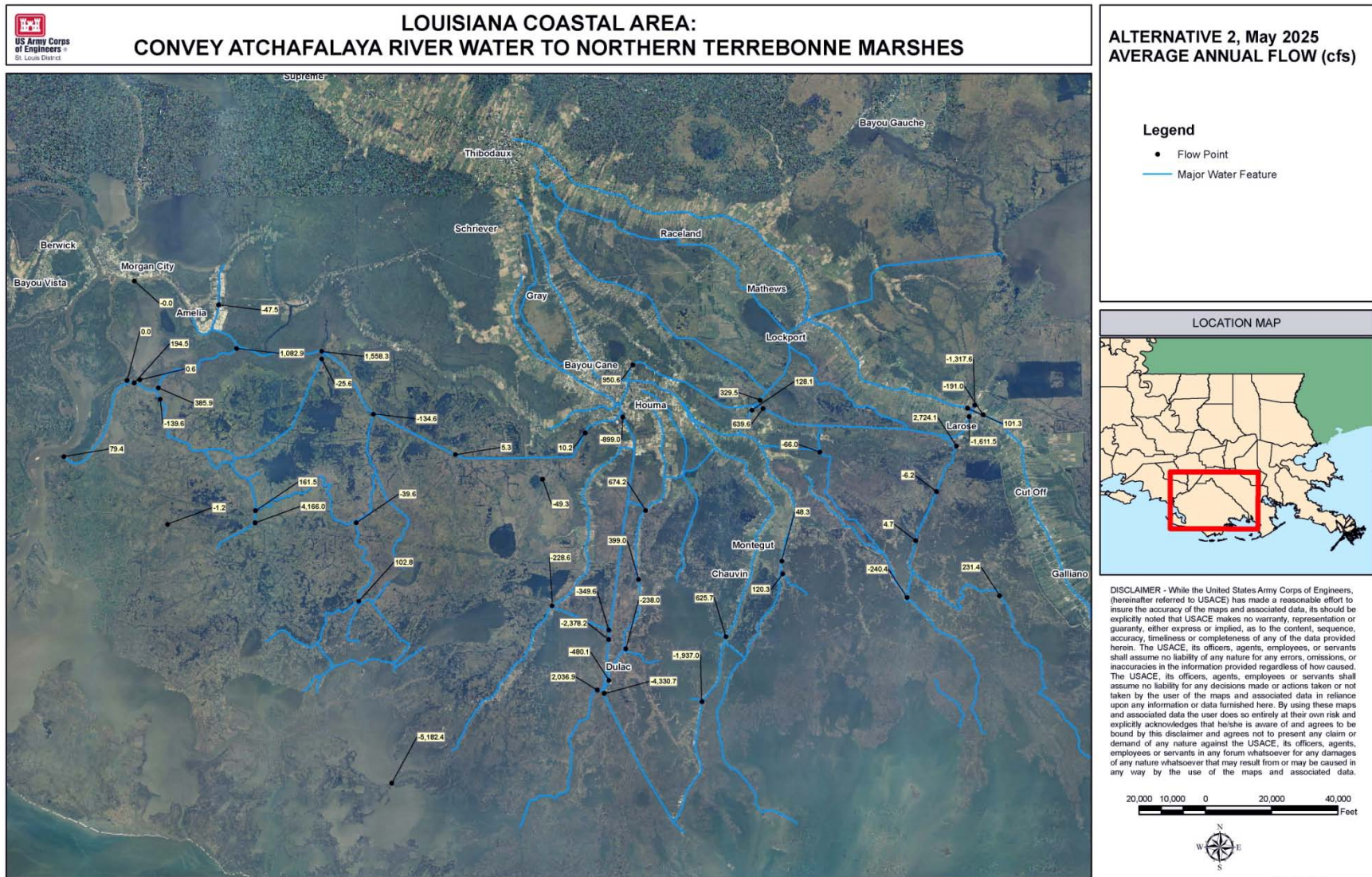


Figure L2-78 - Flow change for Alternative 2, May 2025

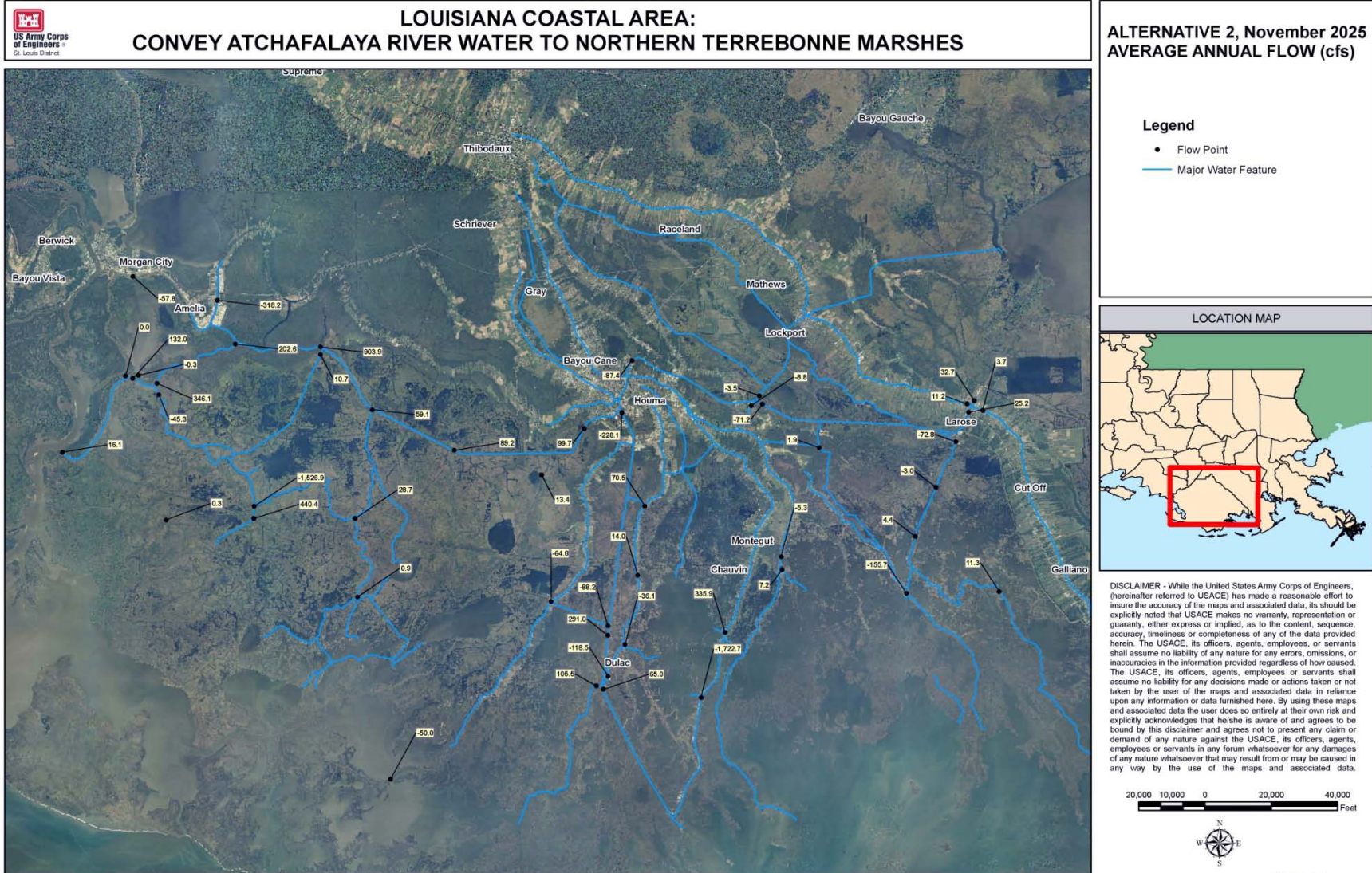
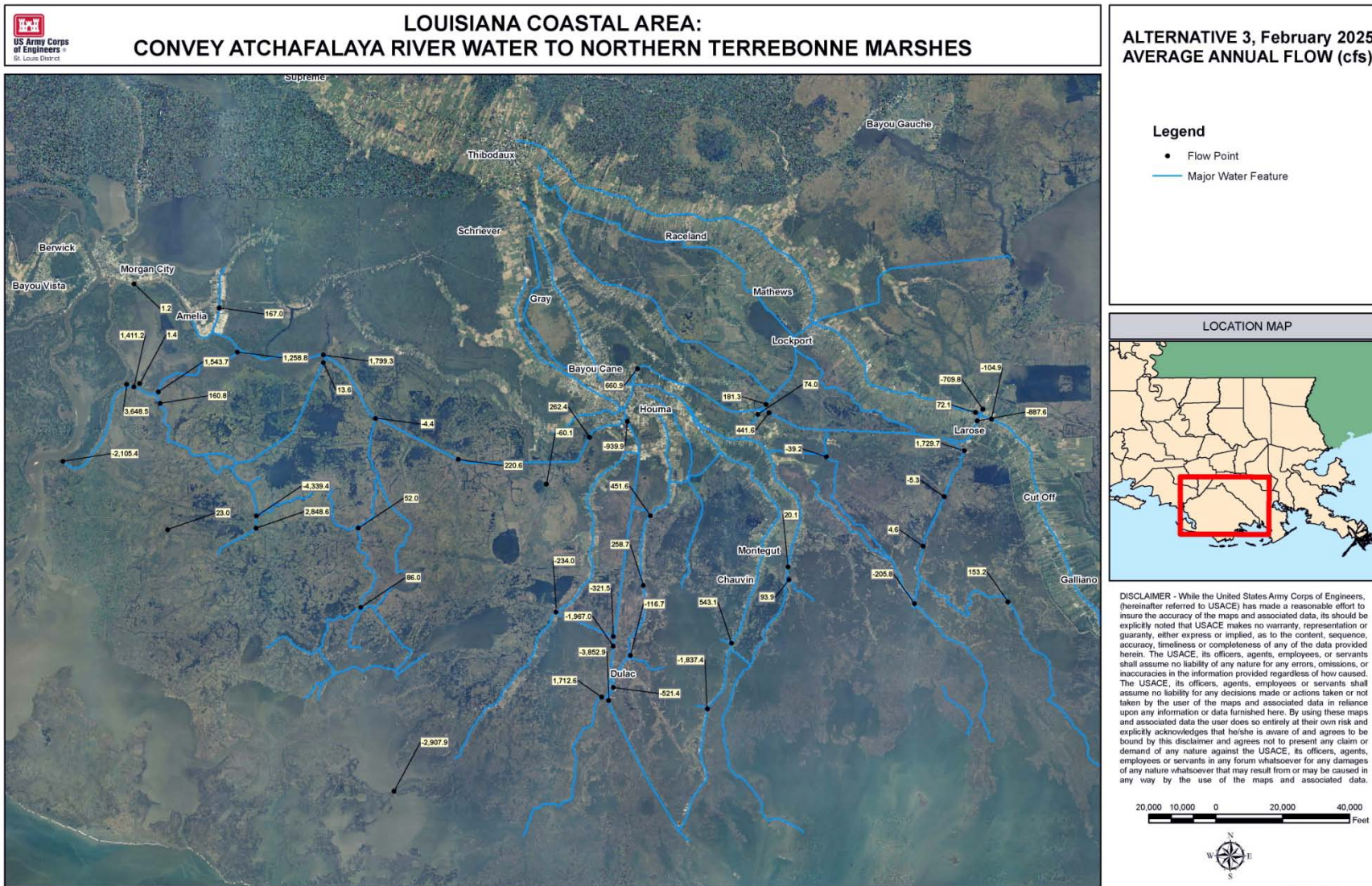


Figure L2-79 - Flow change for Alternative 2, November 2025



1230

Figure L2-80 - Flow change for Alternative 3, February 2025

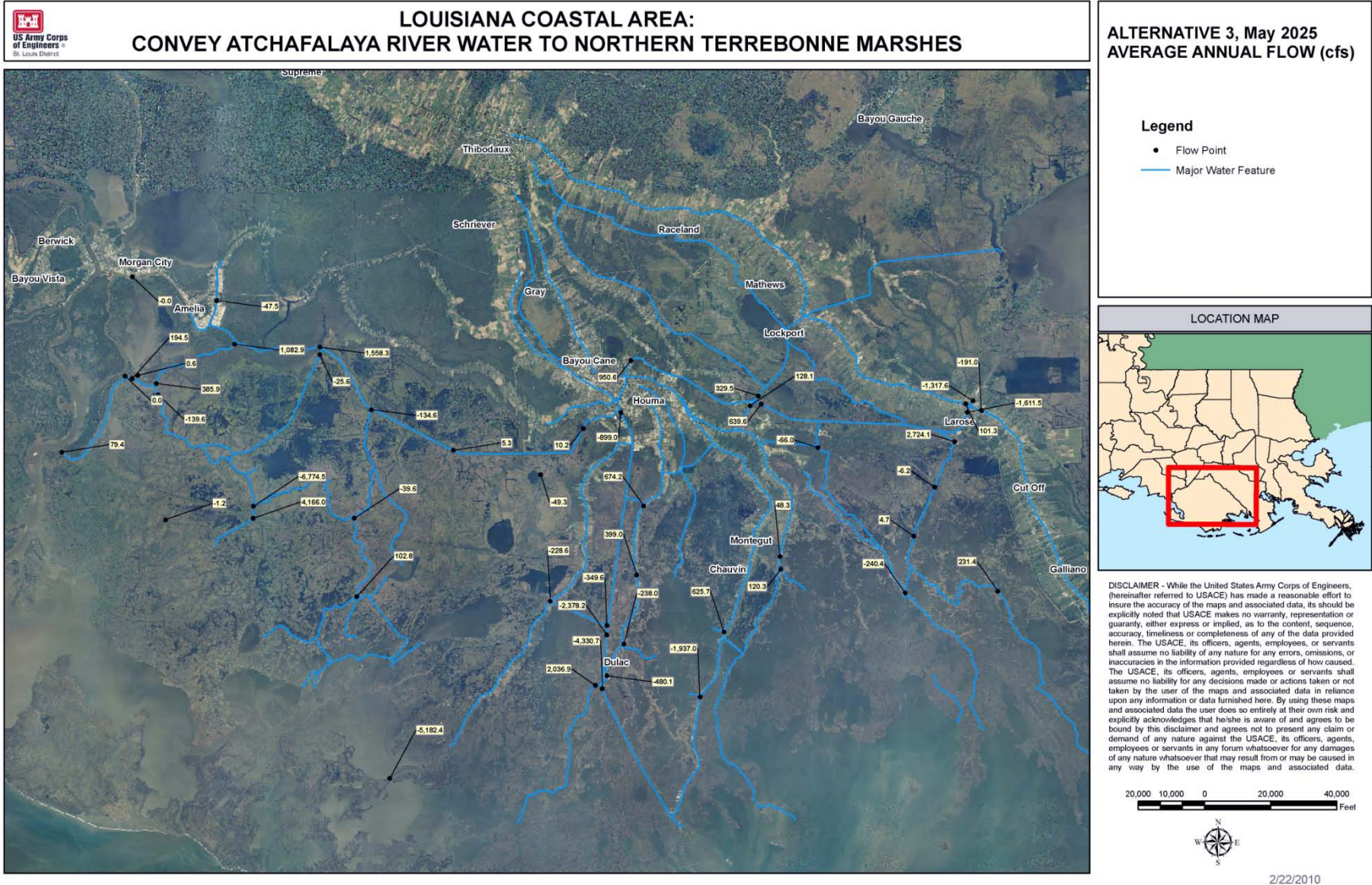
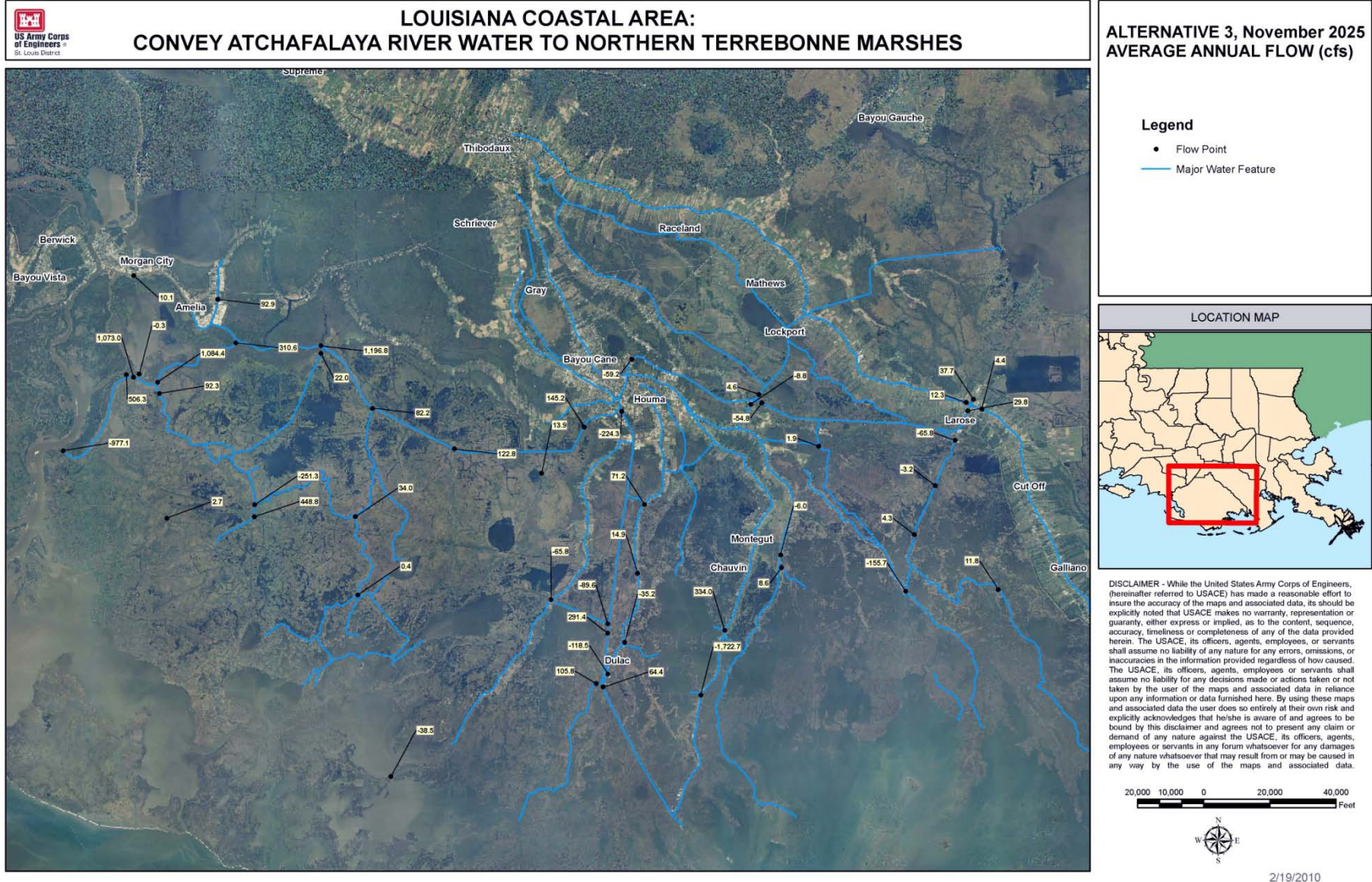


Figure L2-81 - Flow change for Alternative 3, May 2025



1235 Figure L2-82 - Flow change for Alternative 3, November 2025

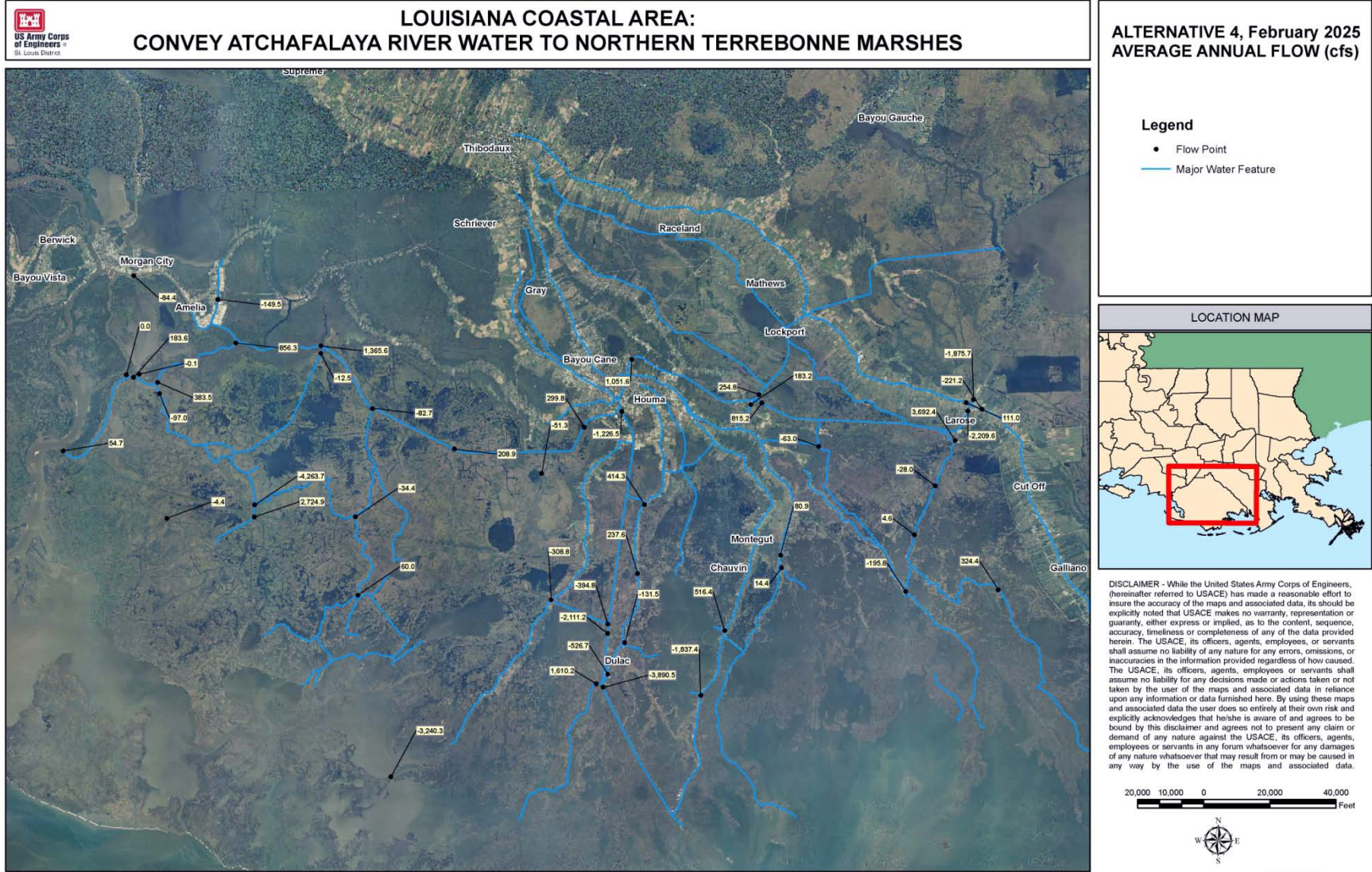


Figure L2-83 - Flow change for Alternative 4, February 2025

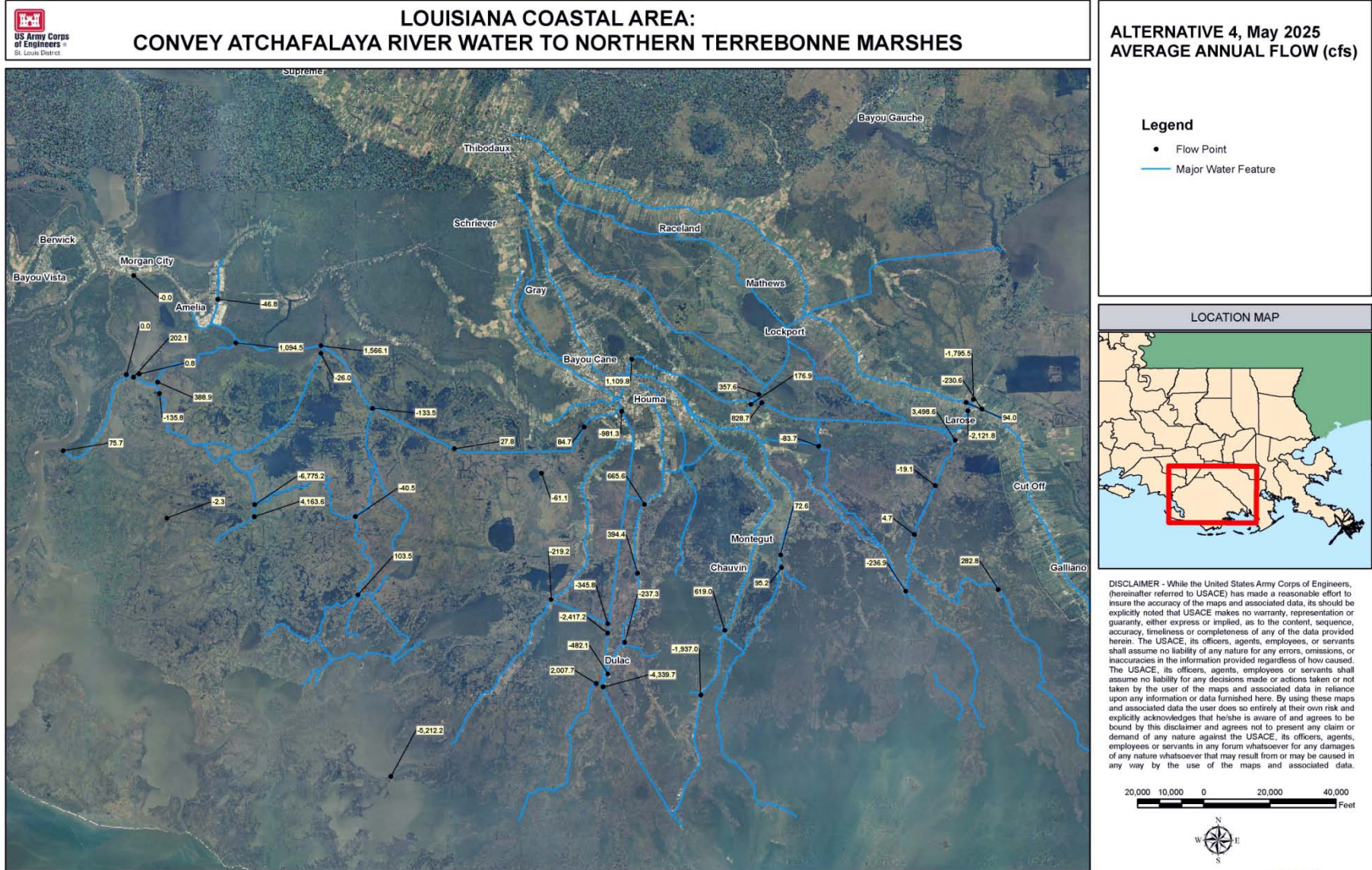
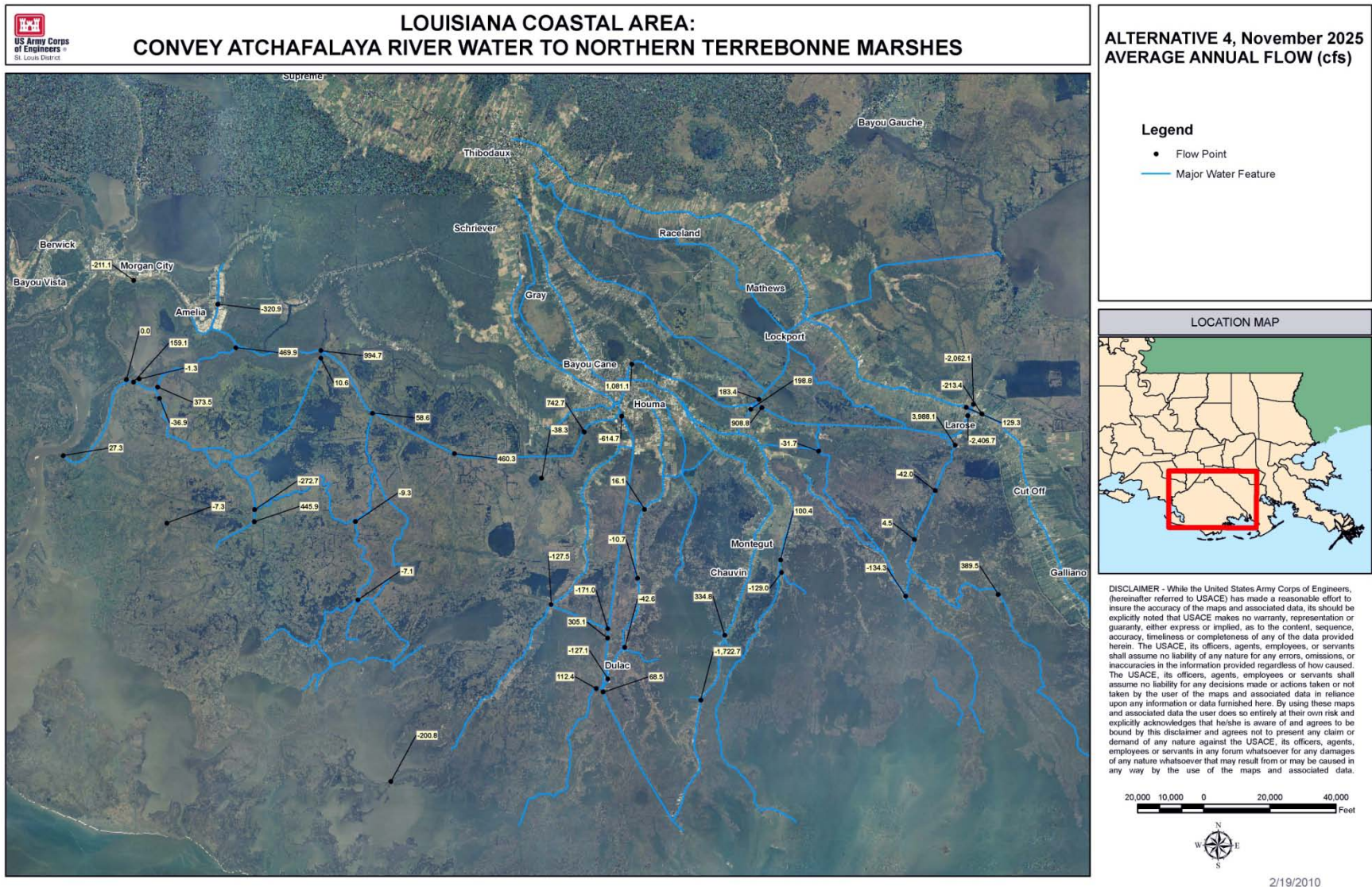


Figure L2-84 - Flow change for Alternative 4, May 2025



1240

Figure L2-85 - Flow change for Alternative 4, November 2025

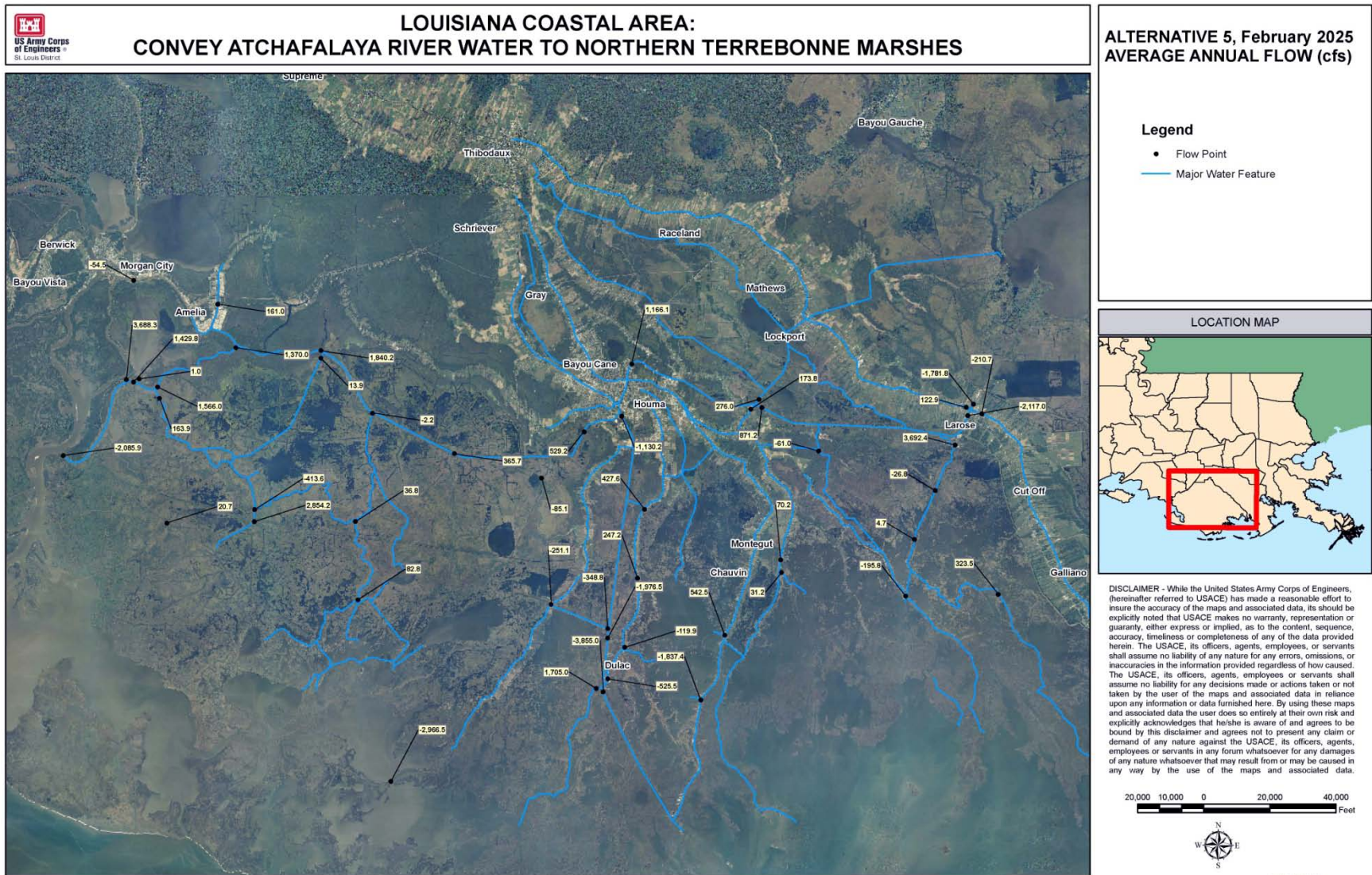
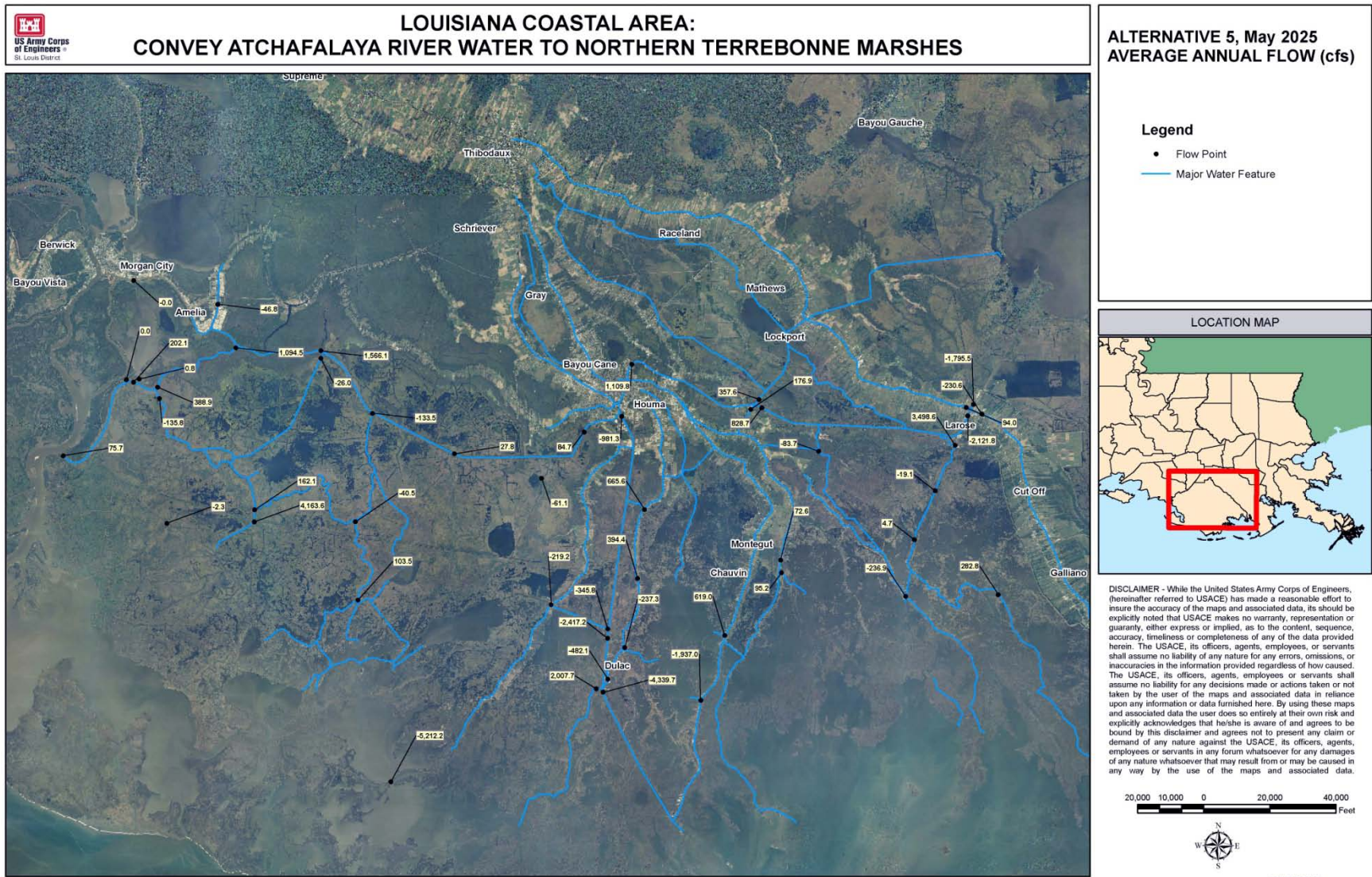


Figure L2-86 - Flow change for Alternative 5, February 2025



1245 Figure L2-87 - Flow change for Alternative 5, May 2025

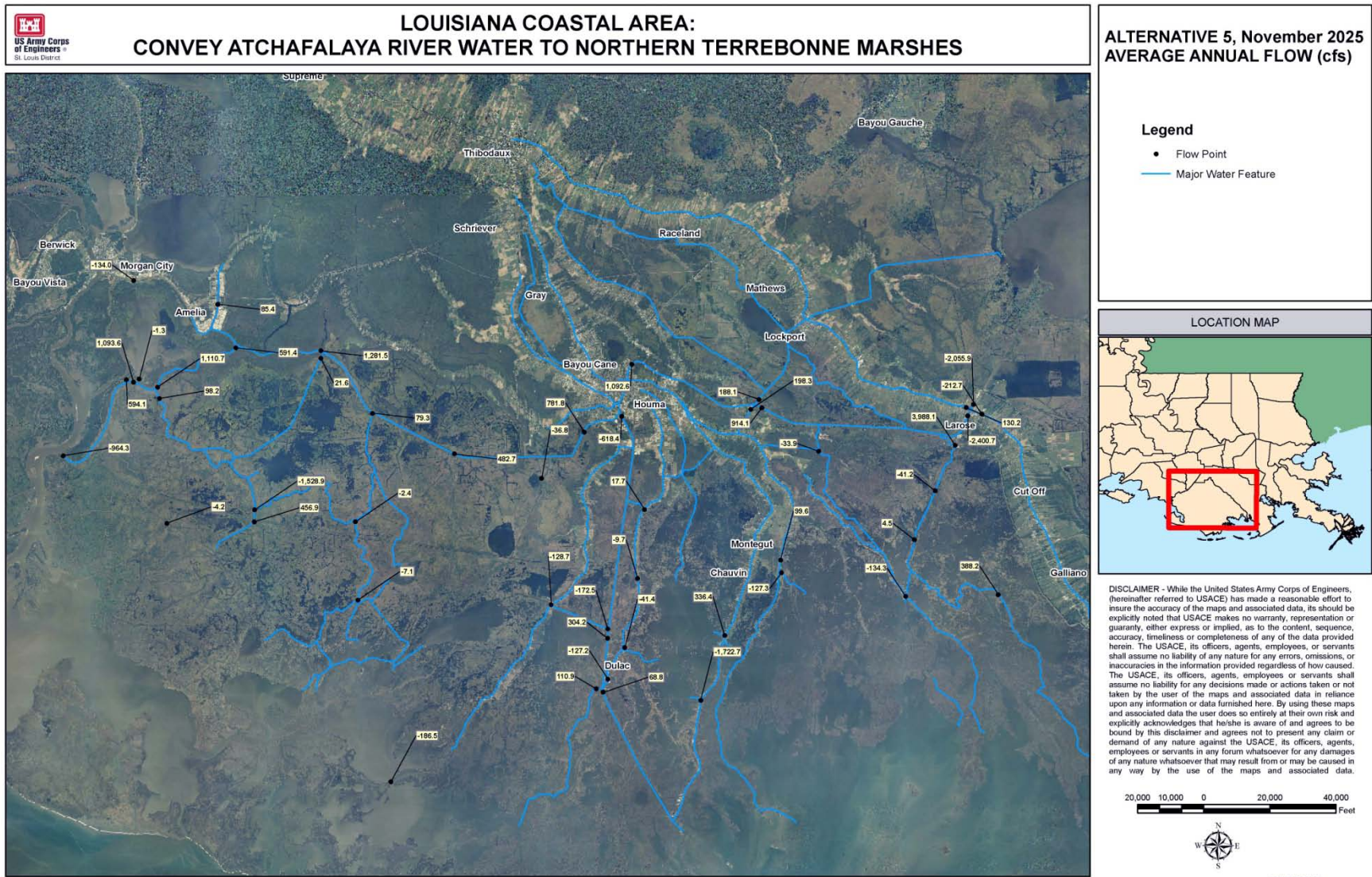


Figure L2-88 - Flow change for Alternative 5, November 2025

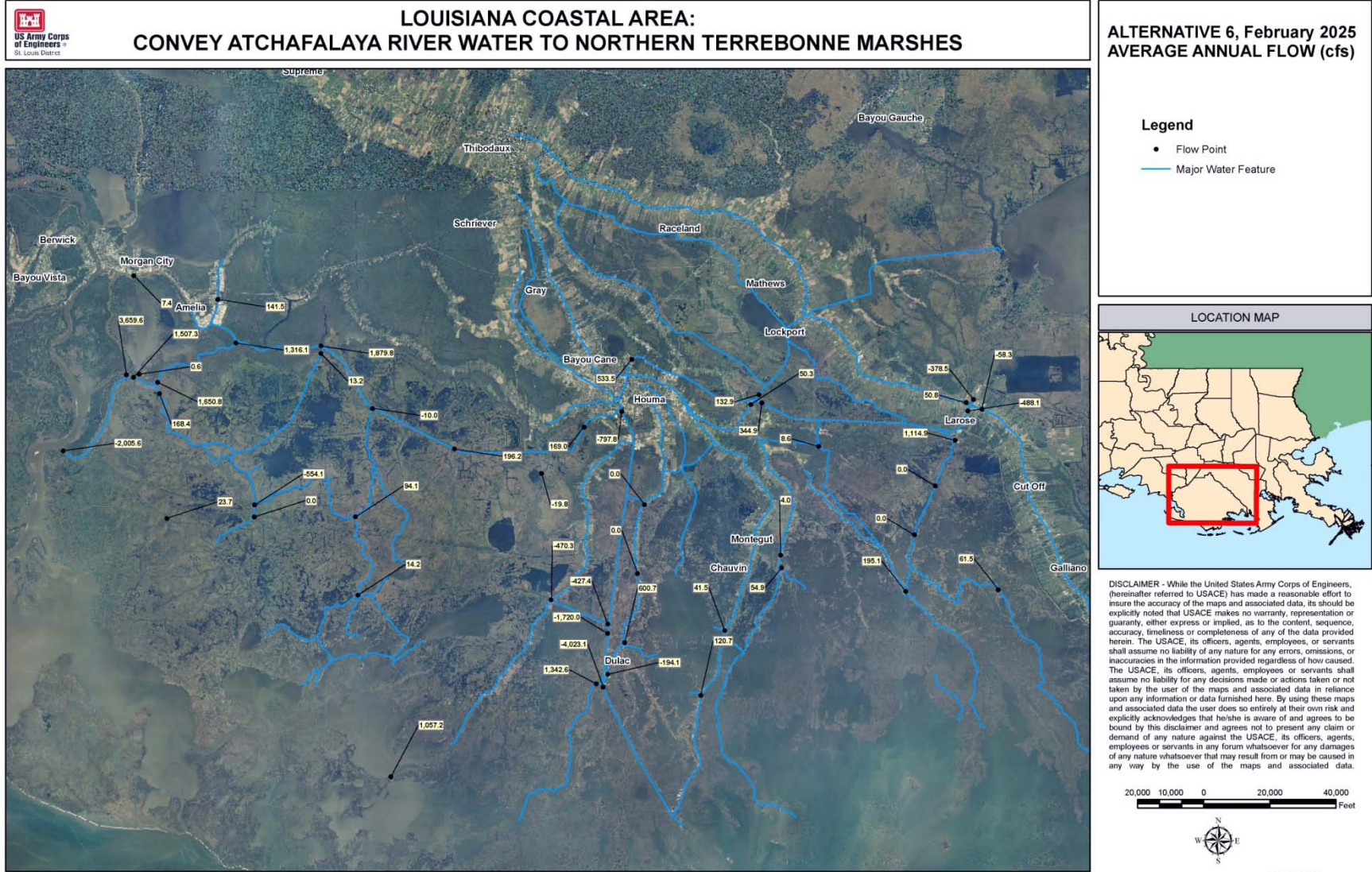
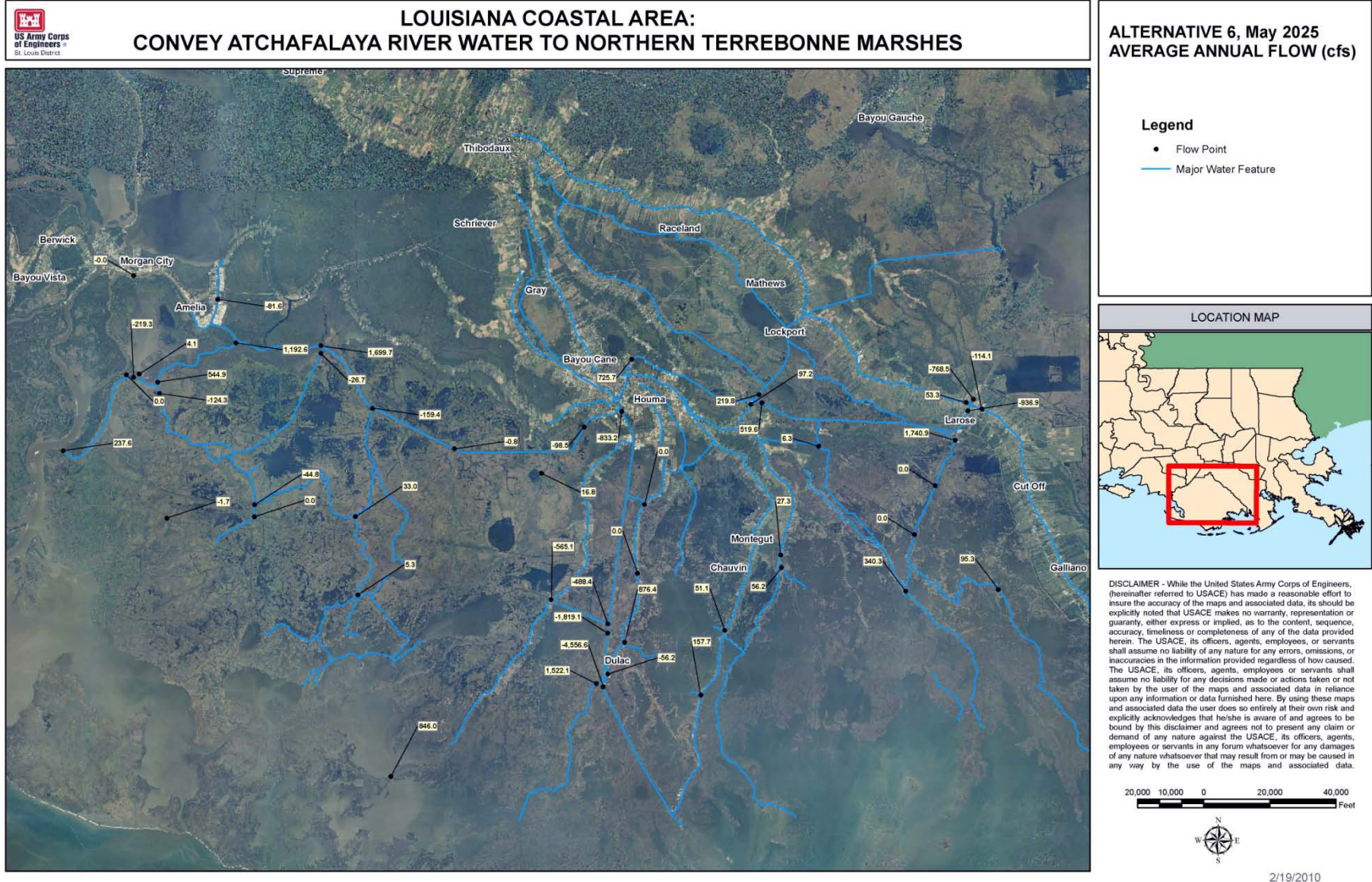


Figure L2-89 - Flow change for Alternative 6, February 2025



1250

Figure L2-90 - Flow change for Alternative 6, May 2025

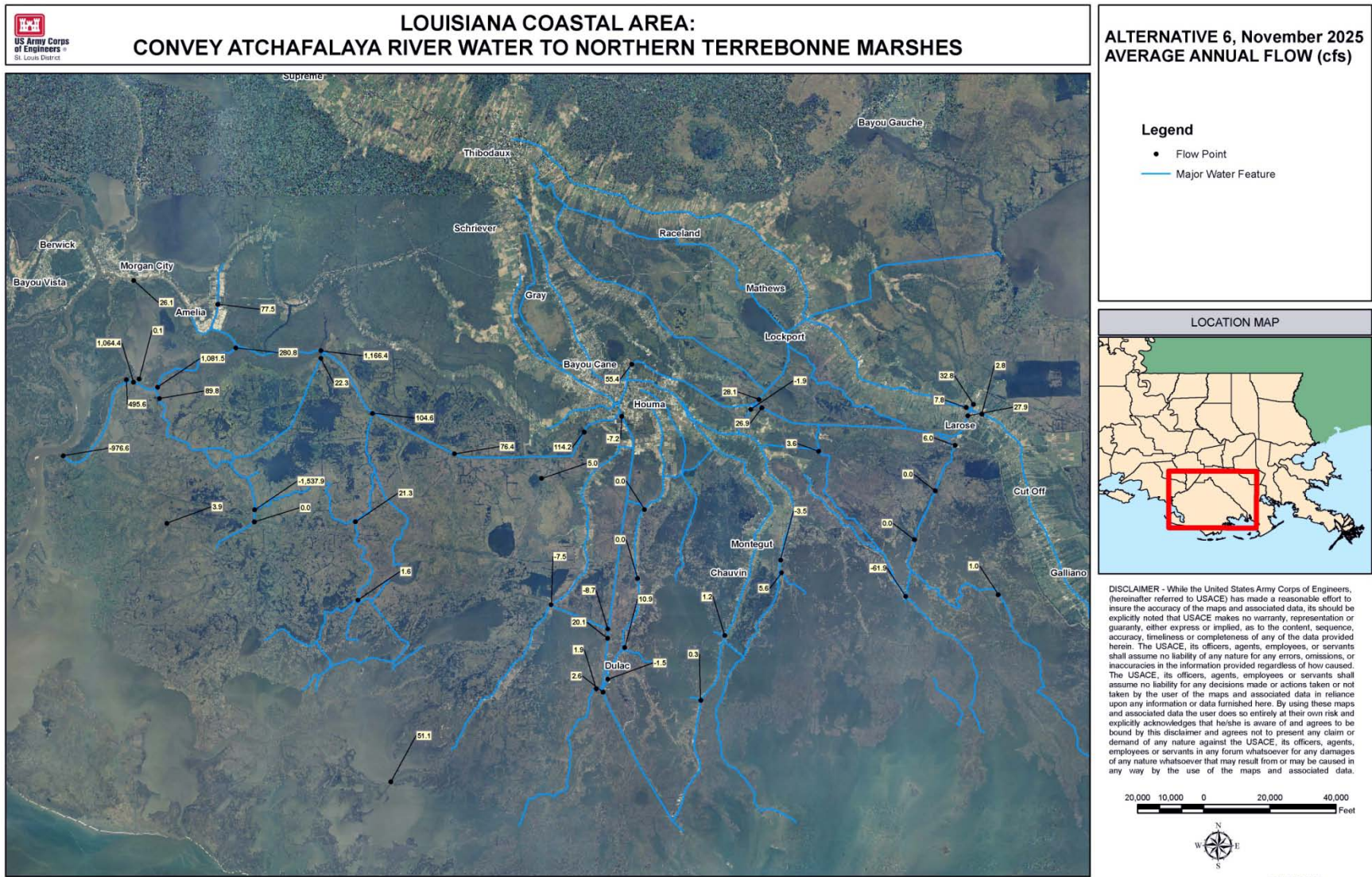
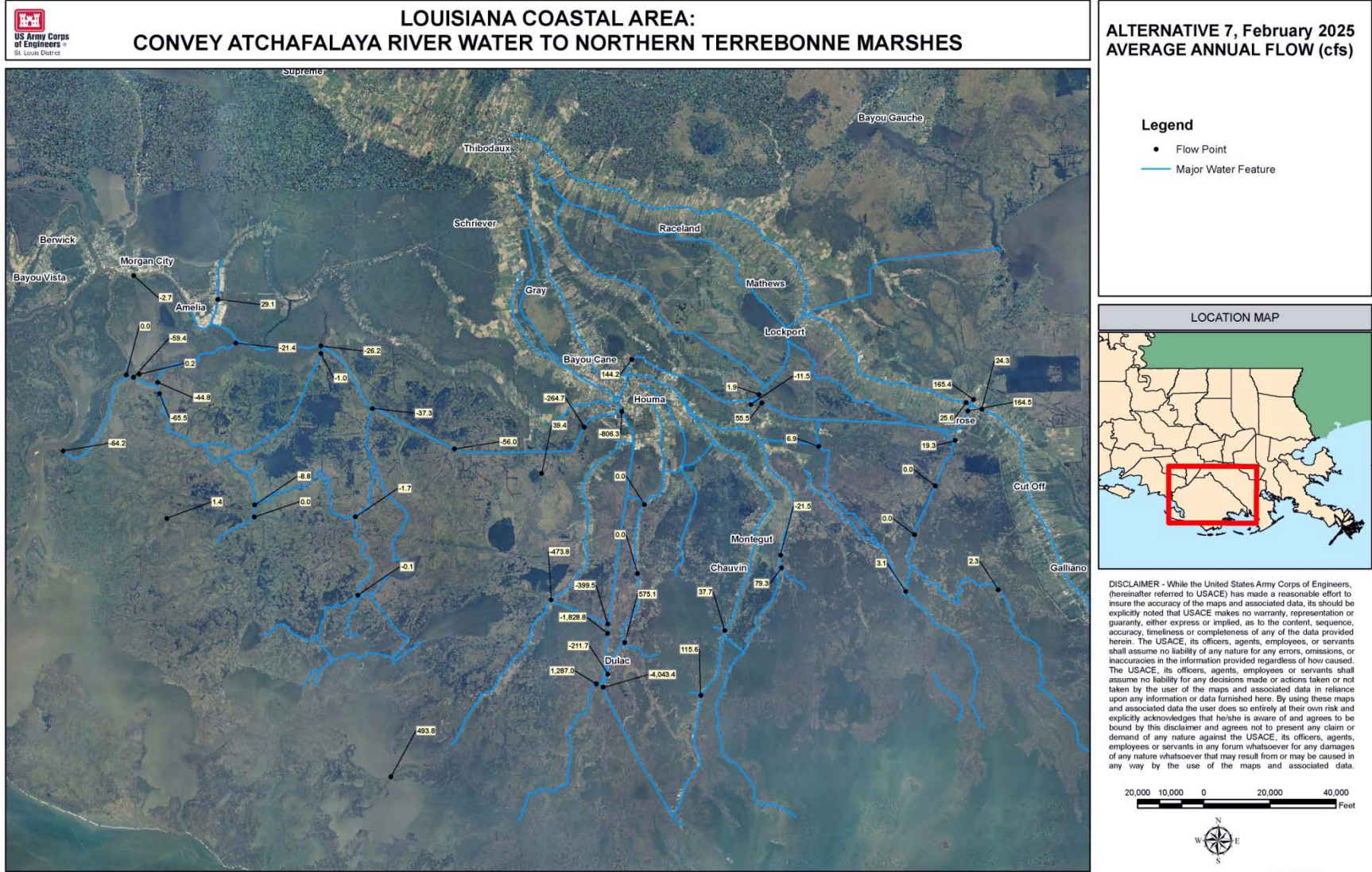


Figure L2-91 - Flow change for Alternative 6, November 2025



1255 Figure L2-92 - Flow change for Alternative 7, February 2025

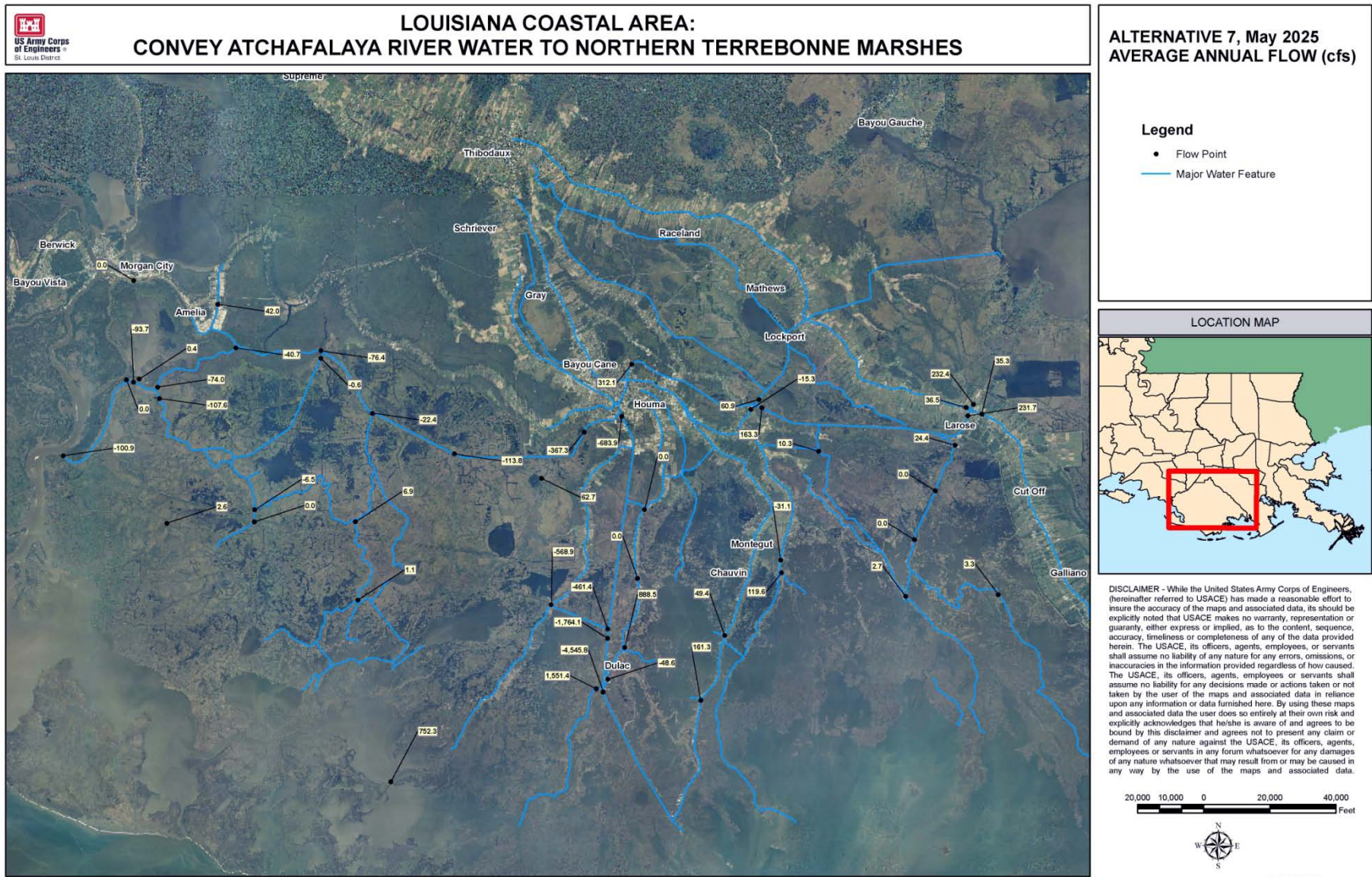
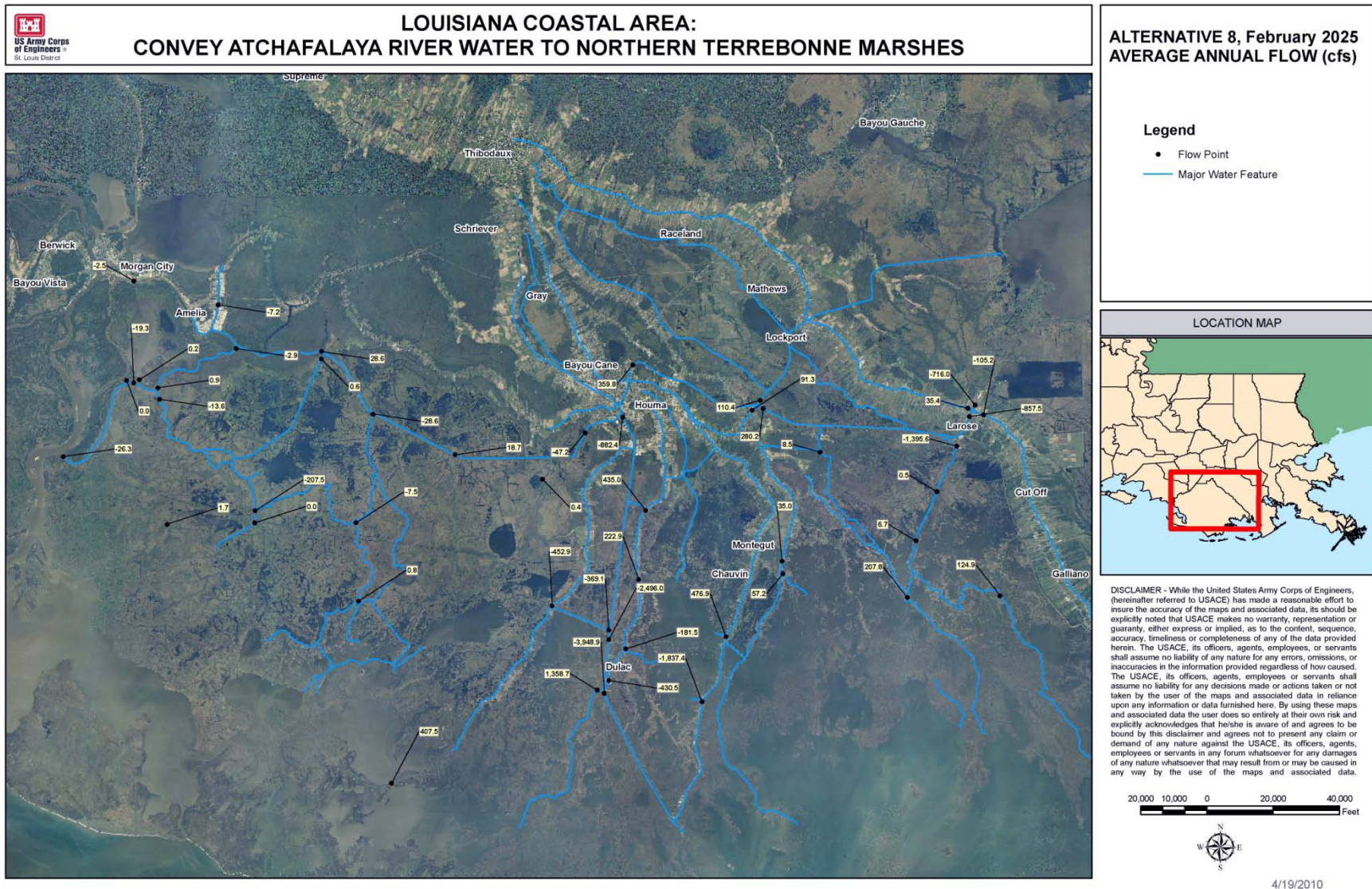


Figure L2-93 - Flow change for Alternative 7, May 2025



1260 Figure L2-94 - Flow change for Alternative 8, February 2025

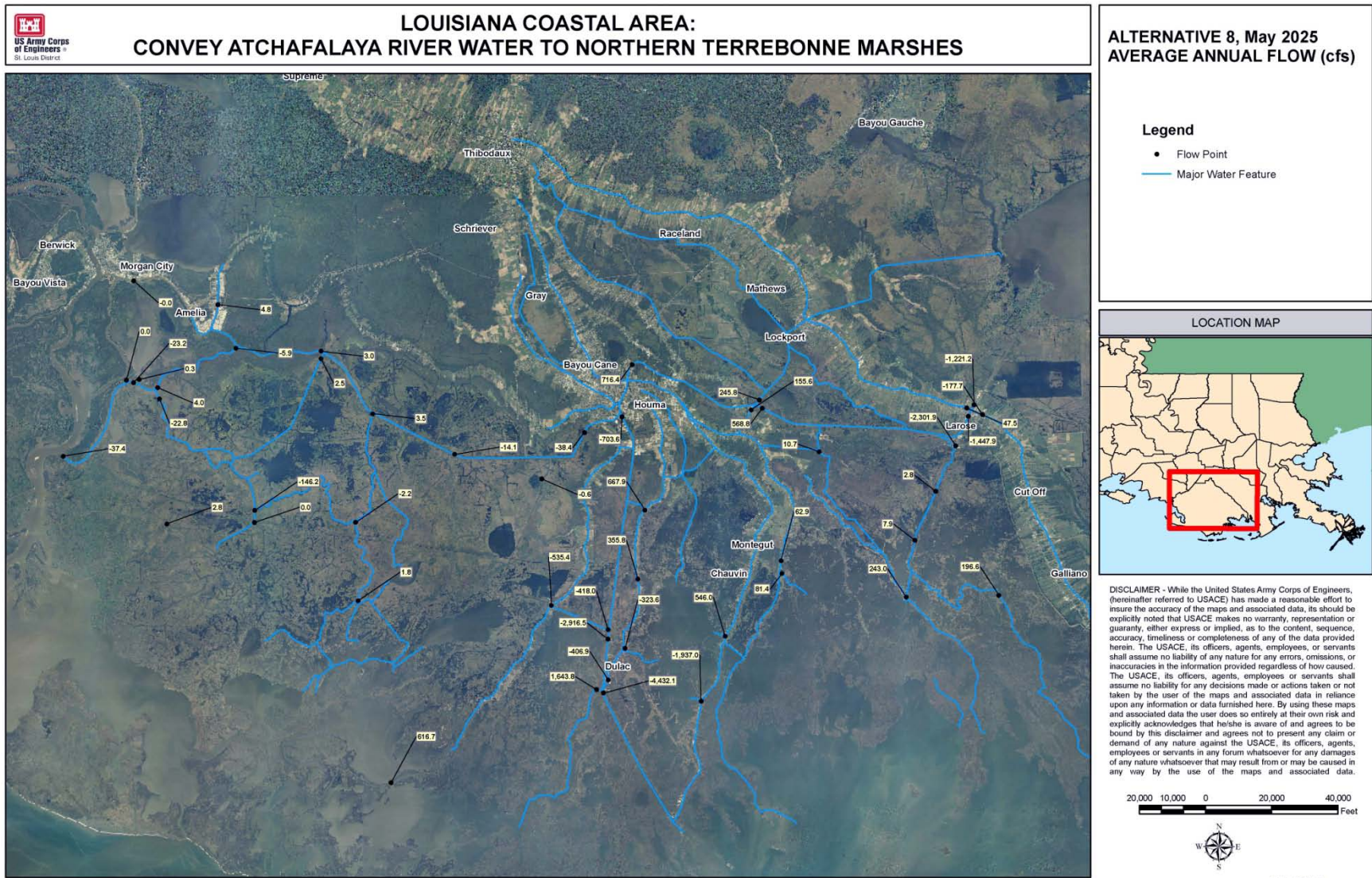
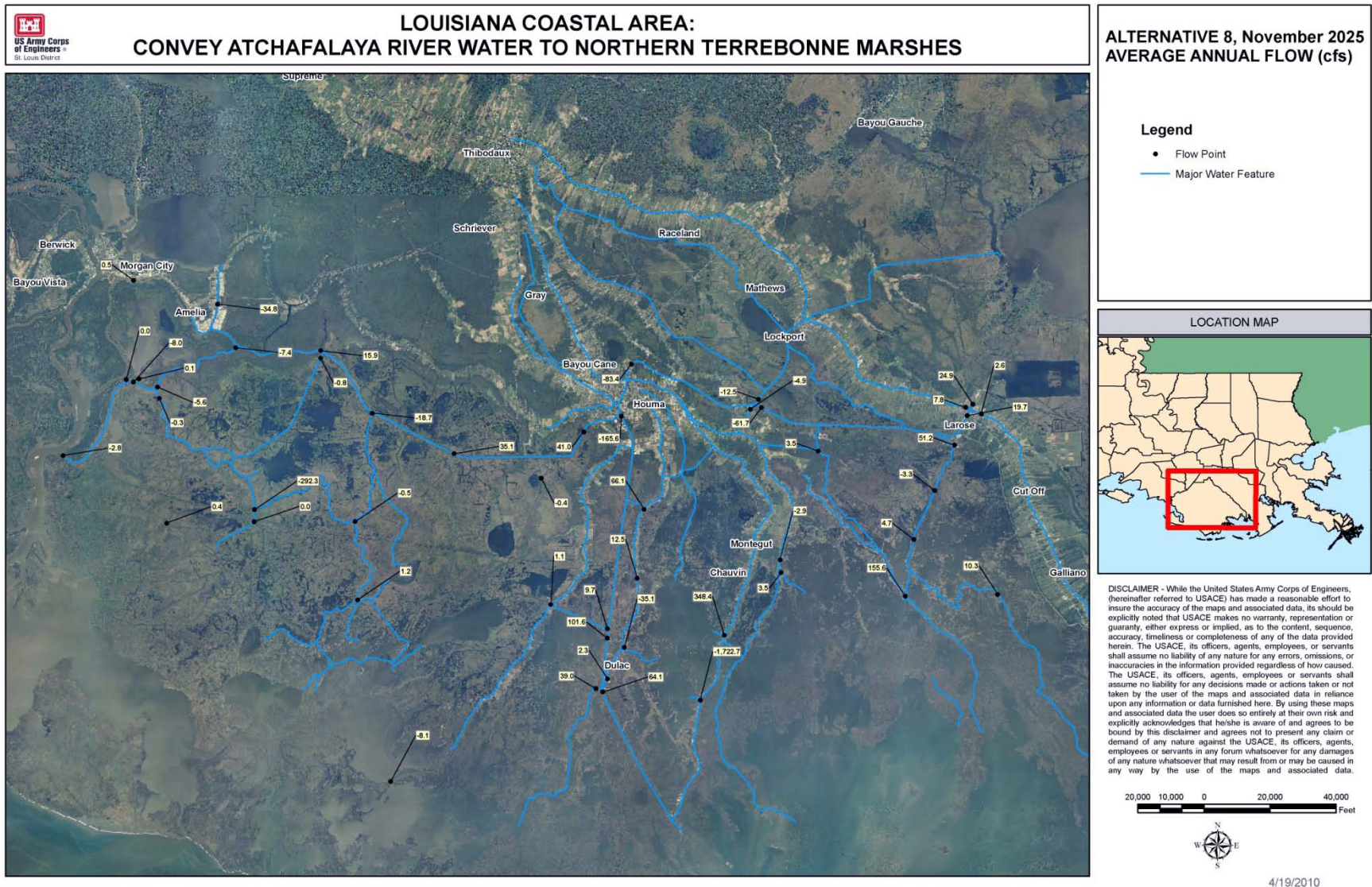


Figure L2-95 - Flow change for Alternative 8, May 2025

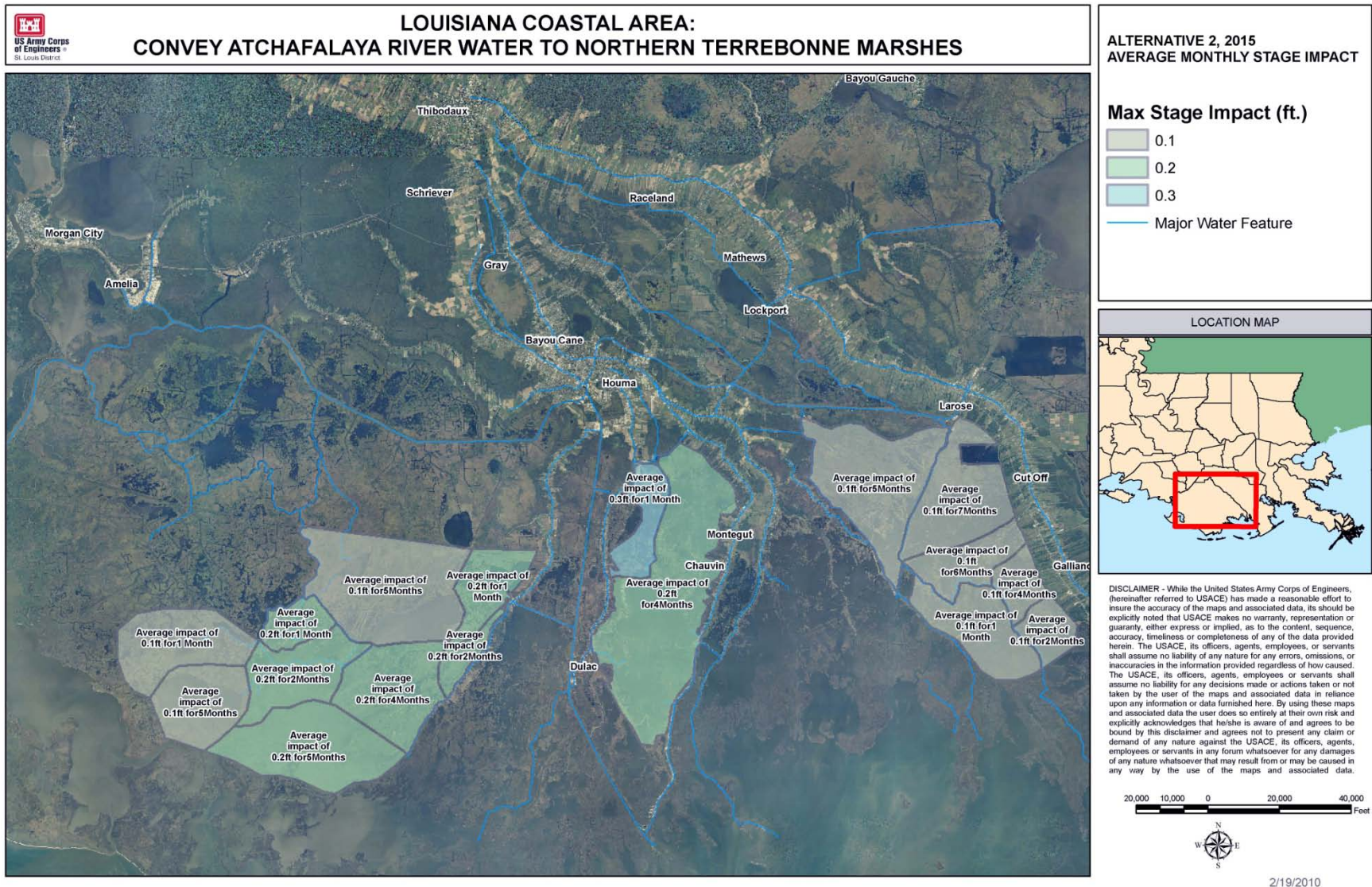


1265

Figure L2-96 - Flow change for Alternative 8, November 2025

RMA-2 Water Surface Elevation Change Results

(See Section L2-4.5 for an explanation of these figures and tables.)



1280 Figure L2-97 - Monthly averaged water surface impact for Alternative 2, 2015

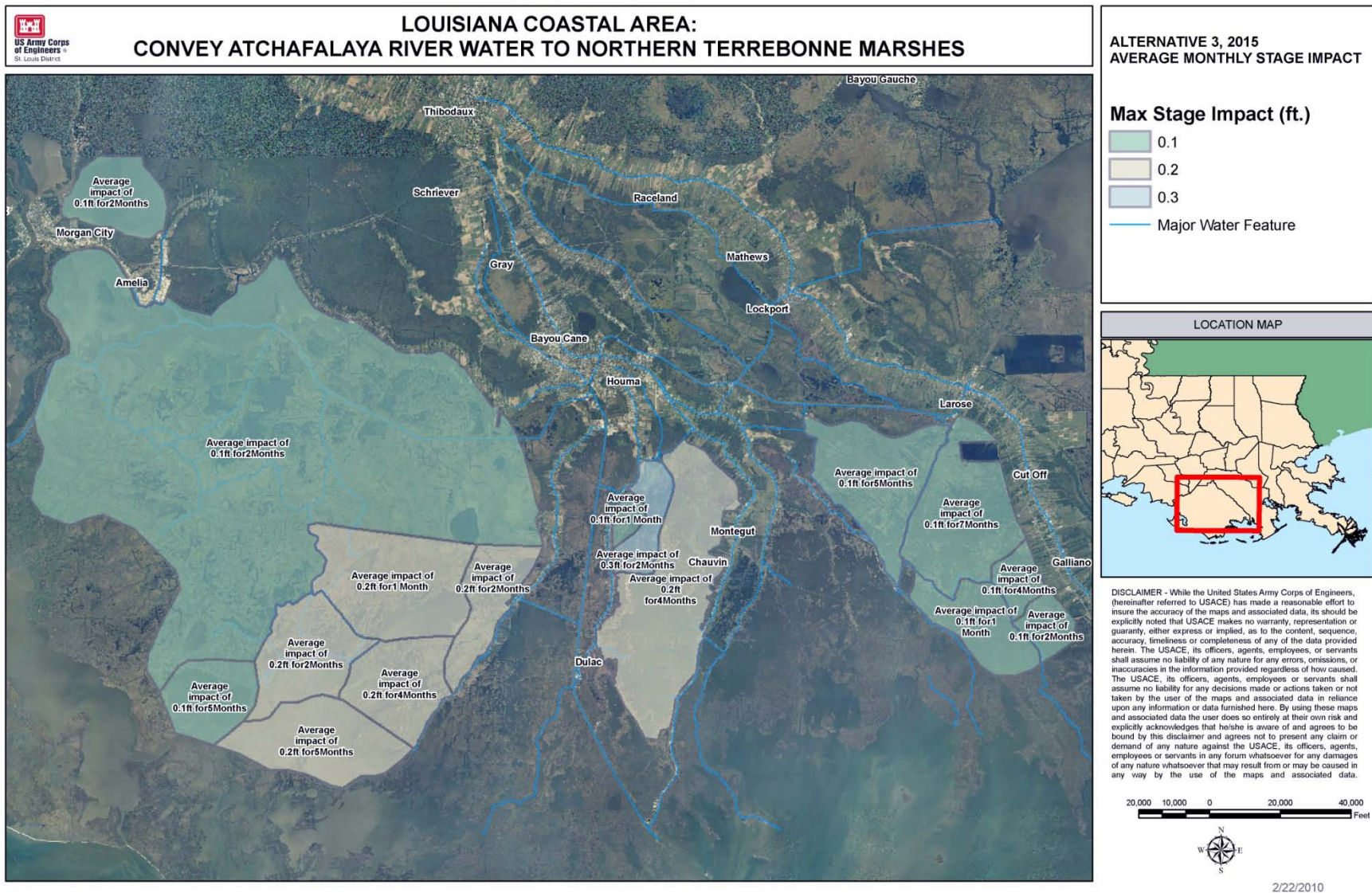


Figure L2-98 - Monthly averaged water surface impact for Alternative 3, 2015

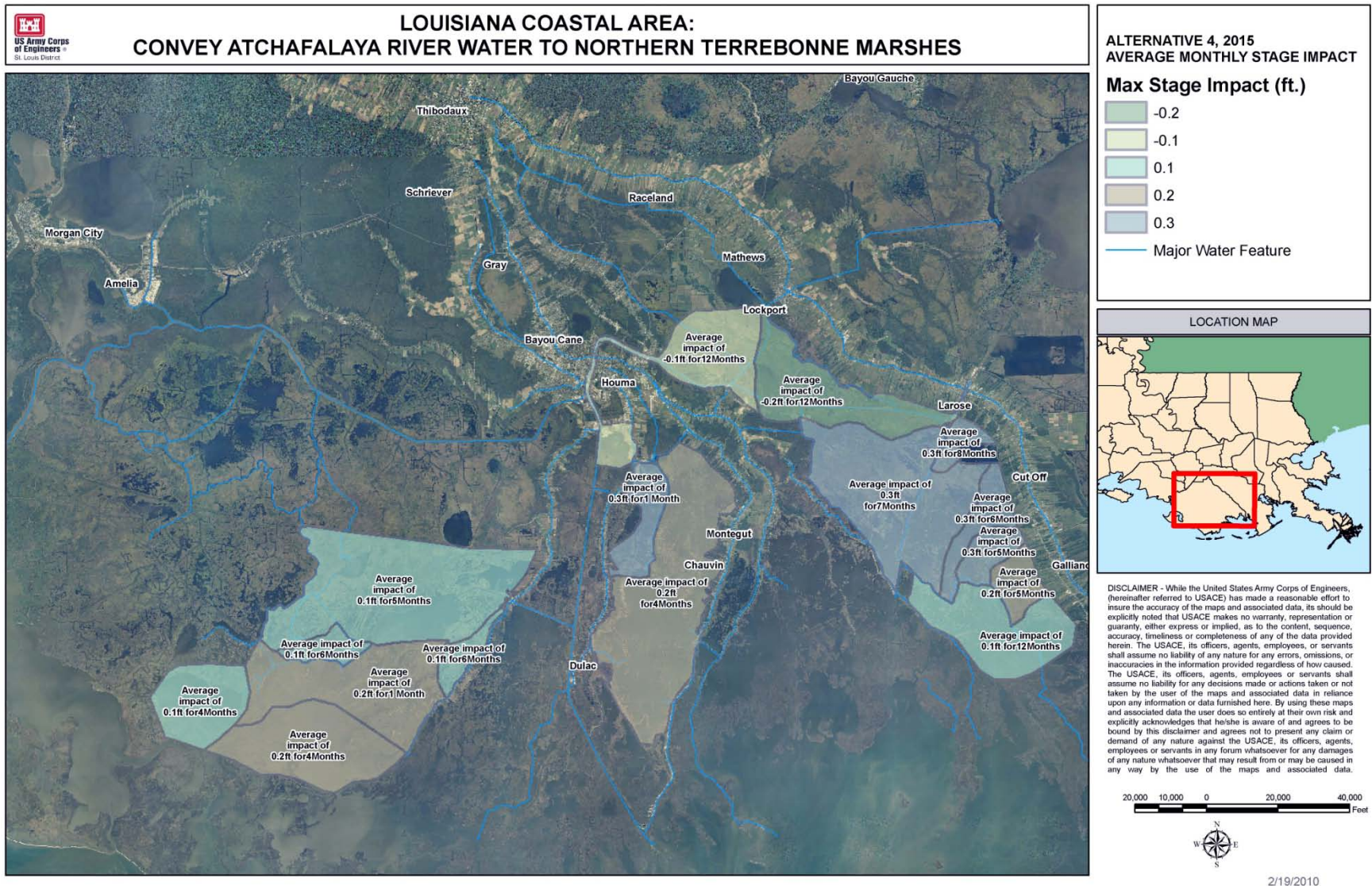
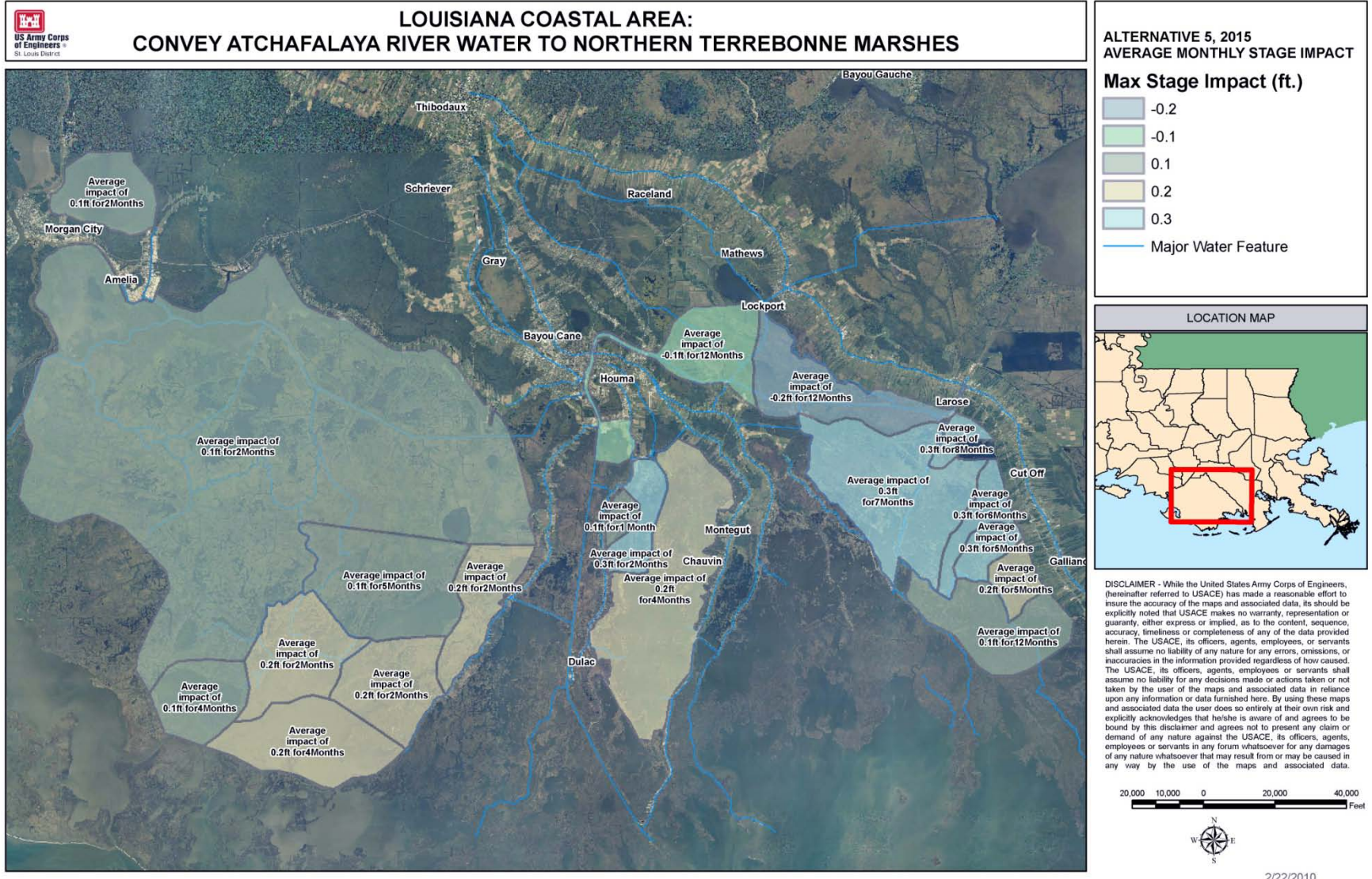


Figure L2-99 - Monthly averaged water surface impact for Alternative 4, 2015



1285

Figure L2-100 - Monthly averaged water surface impact for Alternative 5, 2015

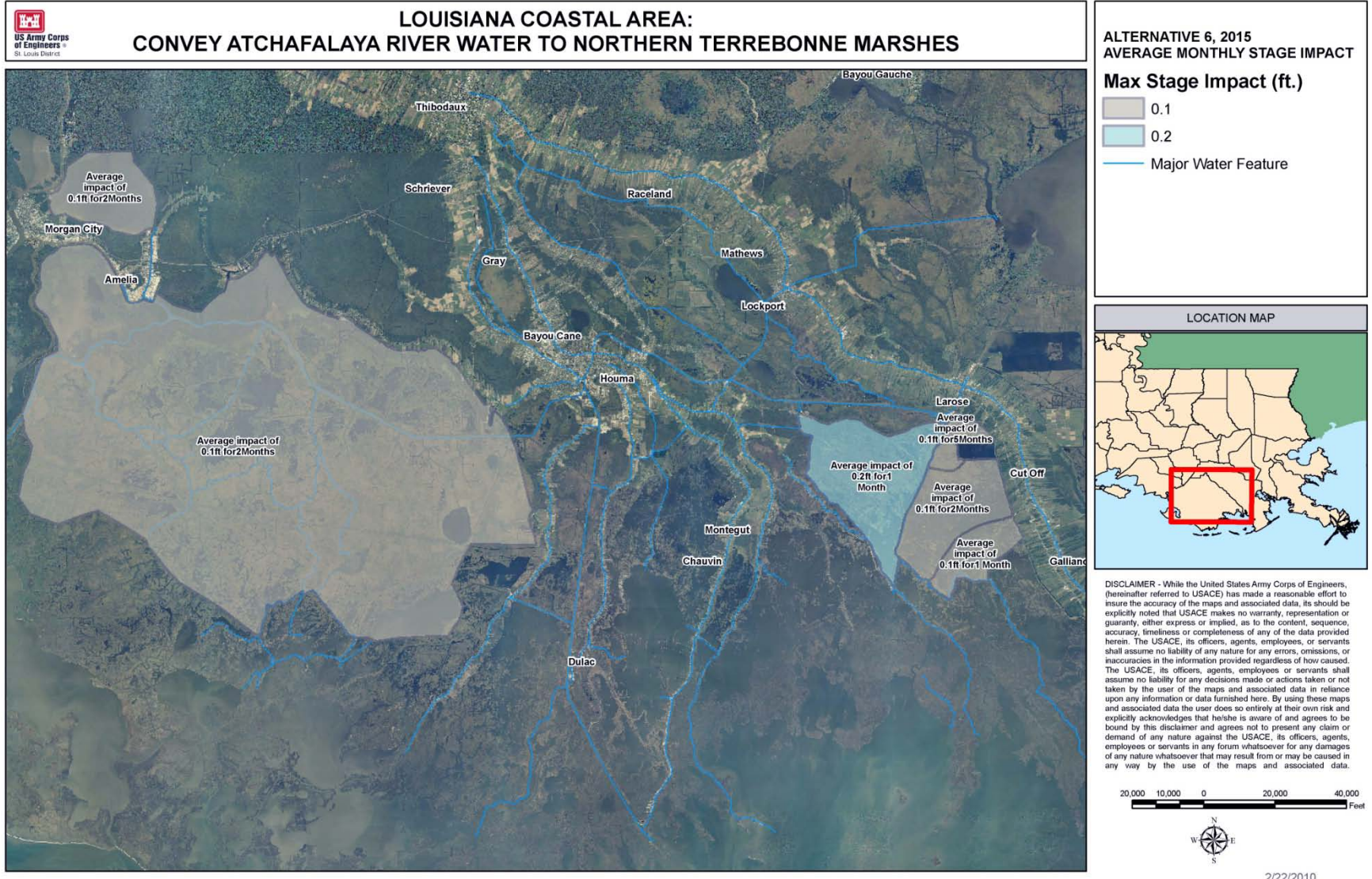


Figure L2-101 - Monthly averaged water surface impact for Alternative 6, 2015

1290

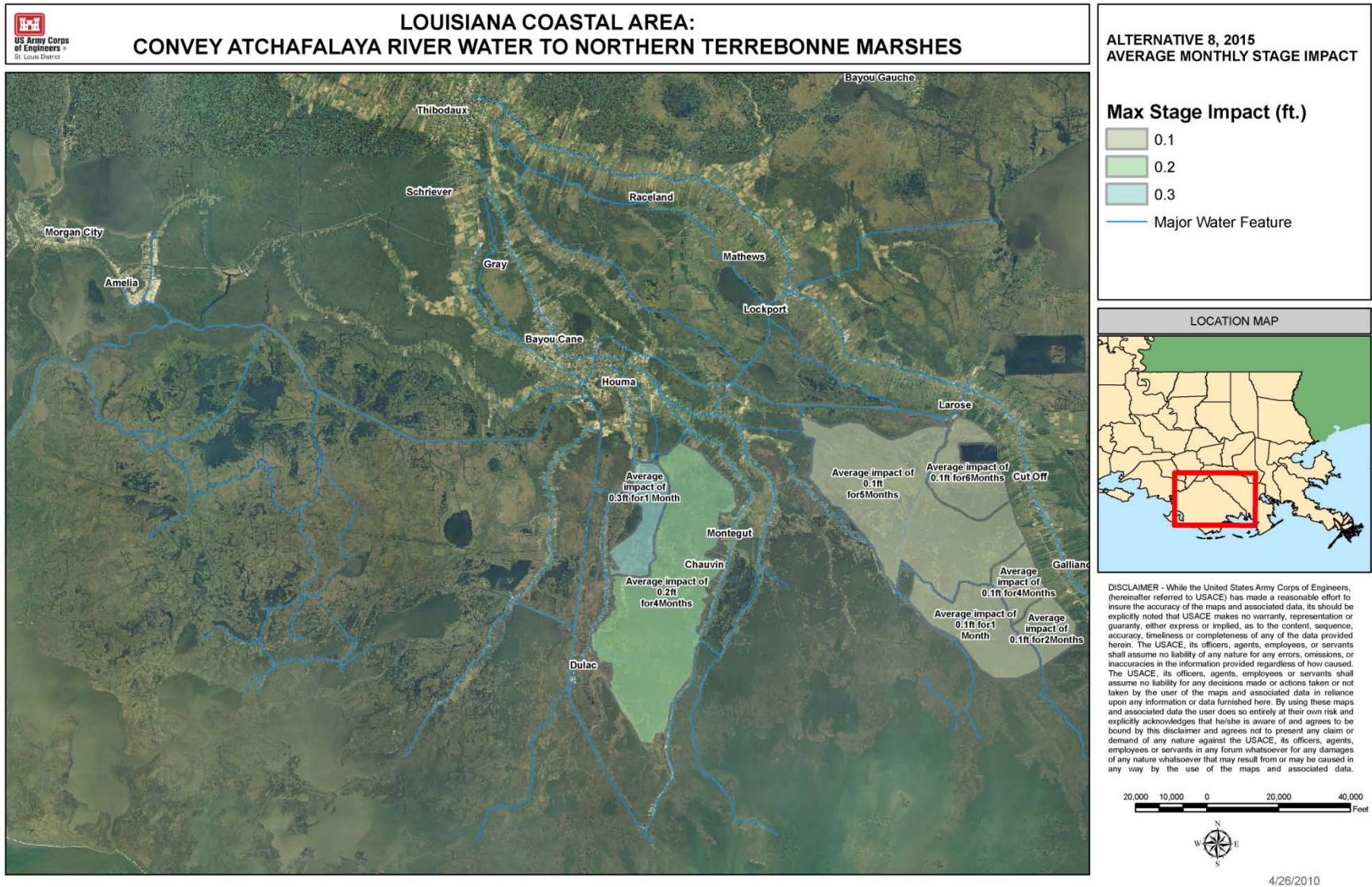


Figure L2-102 - Monthly averaged water surface impact for Alternative 8, 2015

Volume III – Appendix L – Annex 2 – Convey Atchafalaya River Water to Northern Terrebonne Marshes and Multipurpose Operation of Houma Navigation Lock

	Bayou Boeuf at Amelia	GIWW middle of Penchant Basin	HNC head	GIWW west of Larose	Bayou Petit Caillou nr Chauvin	Bayou Chene E of Penchant	Cutoff Canal	GIWW east of Company Canal	St. Louis Canal	Grand Bayou Canal	Bayou Terrebonne	Falgout Canal west of DuLarge
Alt 2												
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mar	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Apr	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.1
May	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
Jun	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
Jul	0.0	0.0	-0.1	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
Aug	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
Sep	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt 3												
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mar	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Apr	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.1
May	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
Jun	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1
Jul	0.1	0.1	0.0	-0.1	0.1	0.1	0.0	-0.1	-0.1	0.0	0.0	0.1
Aug	0.1	0.1	0.0	-0.1	0.1	0.1	0.0	-0.1	-0.1	0.0	0.0	0.1
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt 4												
Jan	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Feb	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Mar	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.2	0.2	0.3	0.0	0.0
Apr	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.2	0.1	0.2	0.0	0.0
May	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.1	0.1	0.0	0.1
Jun	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.1	0.1	0.0	0.1
Jul	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.0	0.1	0.0	0.1
Aug	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.0	0.1	0.0	0.1
Sep	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.2	0.2	0.3	0.0	0.0
Oct	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Nov	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Dec	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Alt 5												
Jan	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Feb	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Mar	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.2	0.2	0.3	0.0	0.0
Apr	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.2	0.1	0.2	0.0	0.0
May	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.1	0.1	0.0	0.1
Jun	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.1	0.1	0.0	0.1
Jul	0.1	0.1	0.0	-0.2	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	0.1
Aug	0.1	0.1	0.0	-0.2	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	0.1
Sep	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.2	0.3	0.0	0.0
Oct	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Nov	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Dec	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.3	0.4	0.0	0.0
Alt 6												
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Apr	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
May	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Jun	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Jul	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	-0.1	0.0	0.1	0.0	0.0
Aug	0.1	0.1	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt 8												
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mar	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Apr	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
May	0.0	0.0	-0.1	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Jun	0.0	0.0	-0.1	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Jul	0.0	0.0	-0.1	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Aug	0.0	0.0	-0.1	-0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RMA-11 Average Annual Salinity Change Results

(See Section L2-4.5 for an explanation of these figures and tables.)

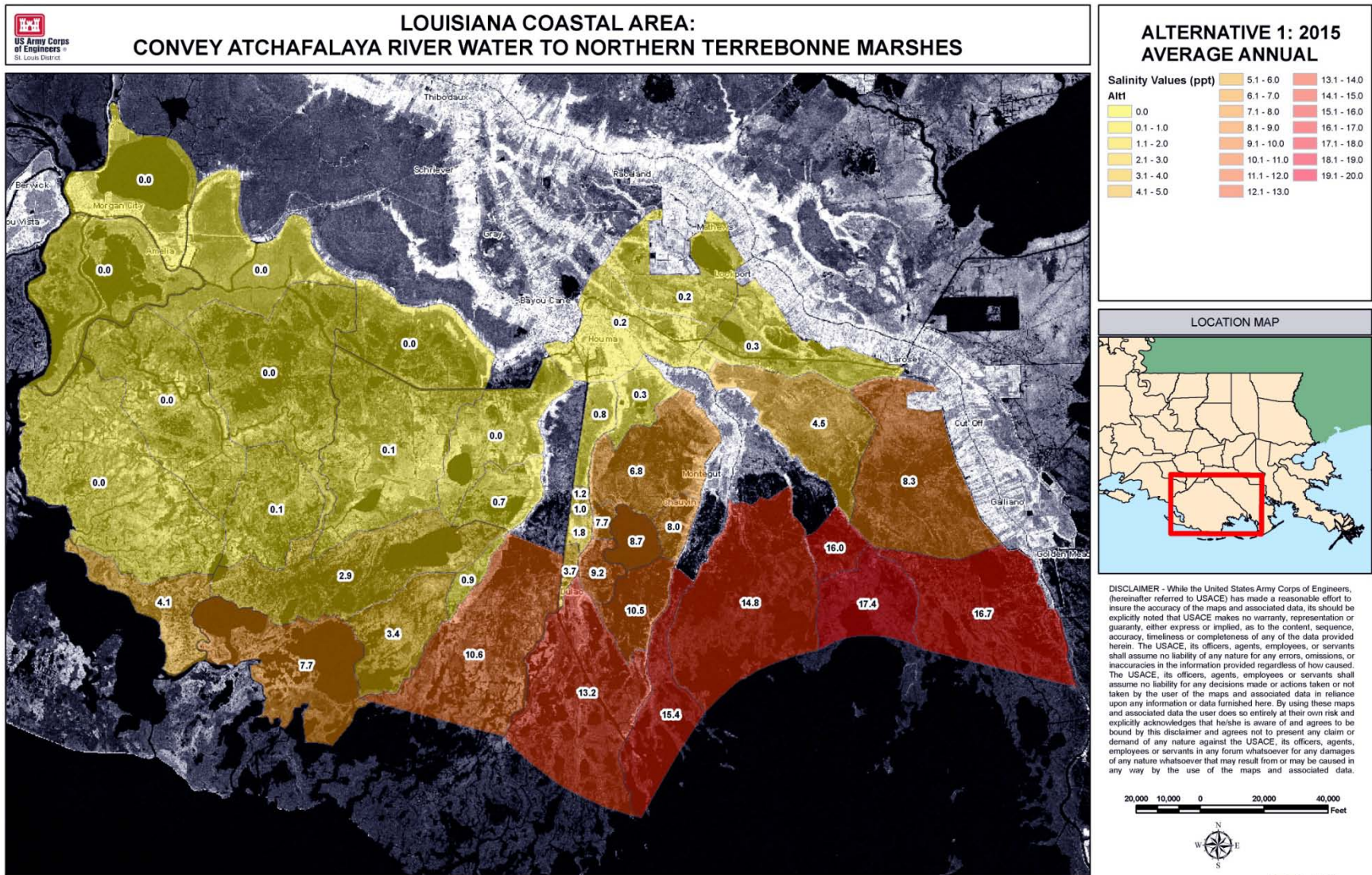
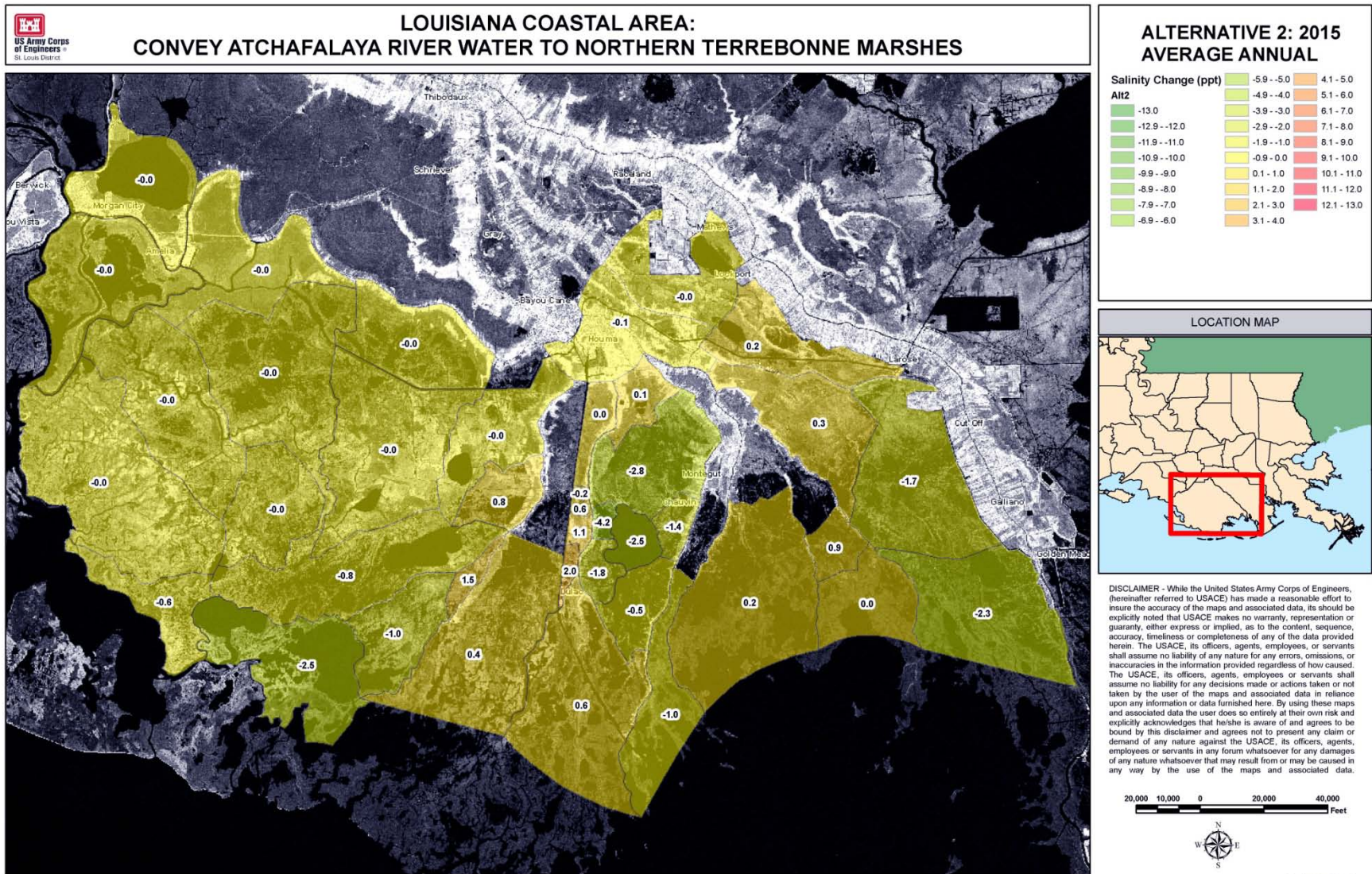


Figure L2-103 - Average annual salinity for Alternative 1, 2015



1305

Figure L2-104 - Average annual salinity change for Alternative 2, 2015

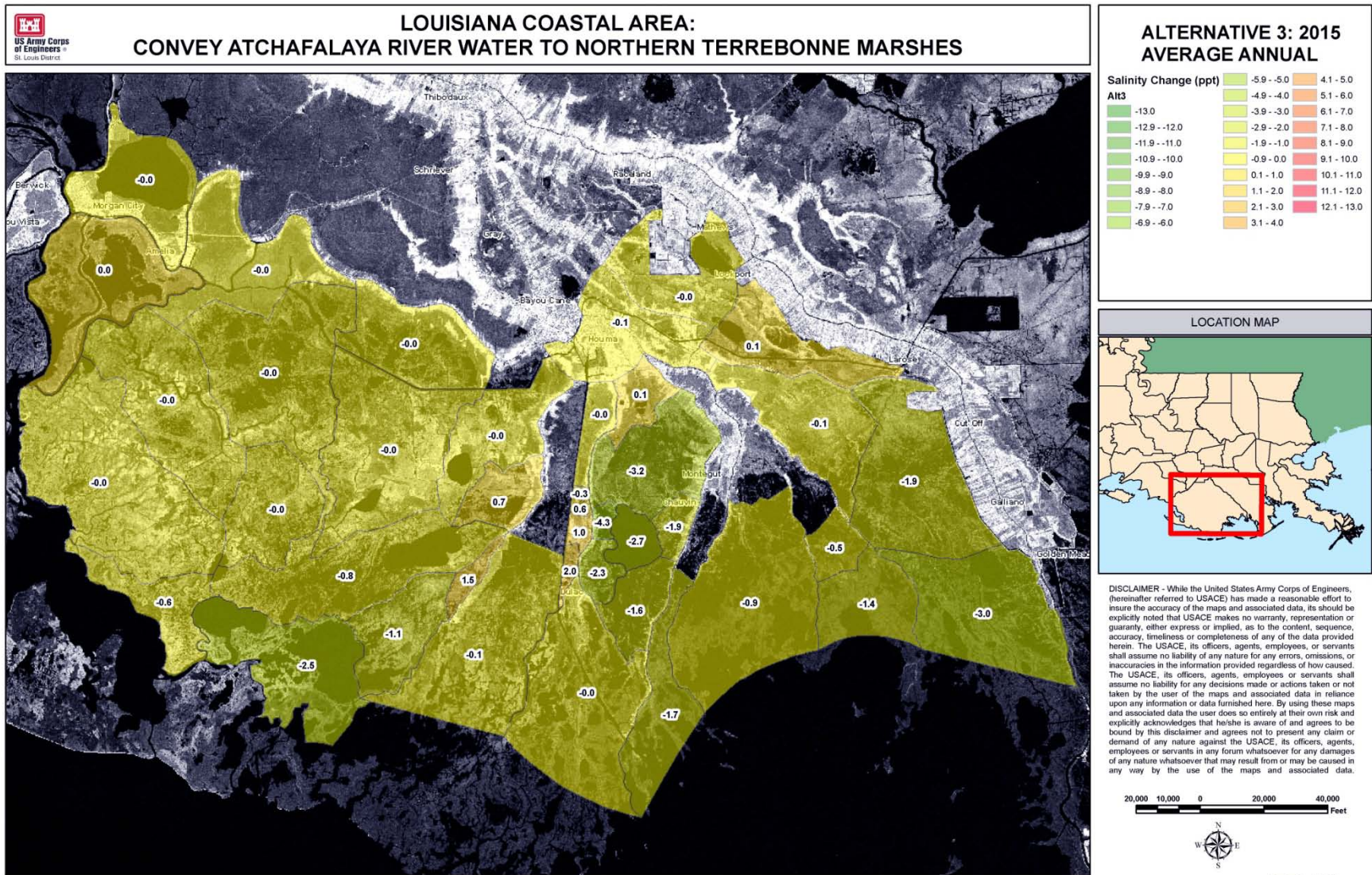
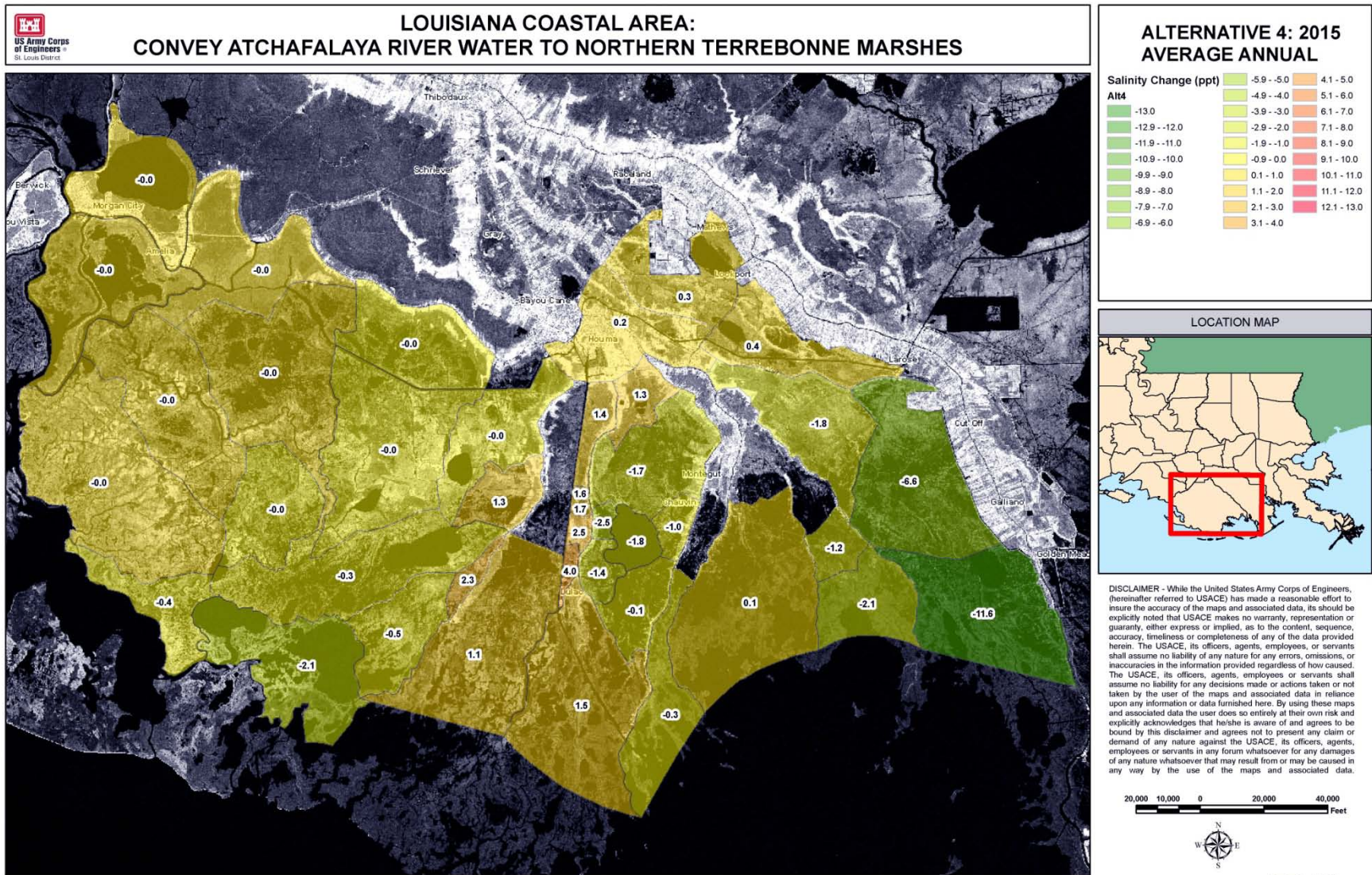


Figure L2-105 - Average annual salinity change for Alternative 3, 2015



1310 Figure L2-106 - Average annual salinity change for Alternative 4, 2015

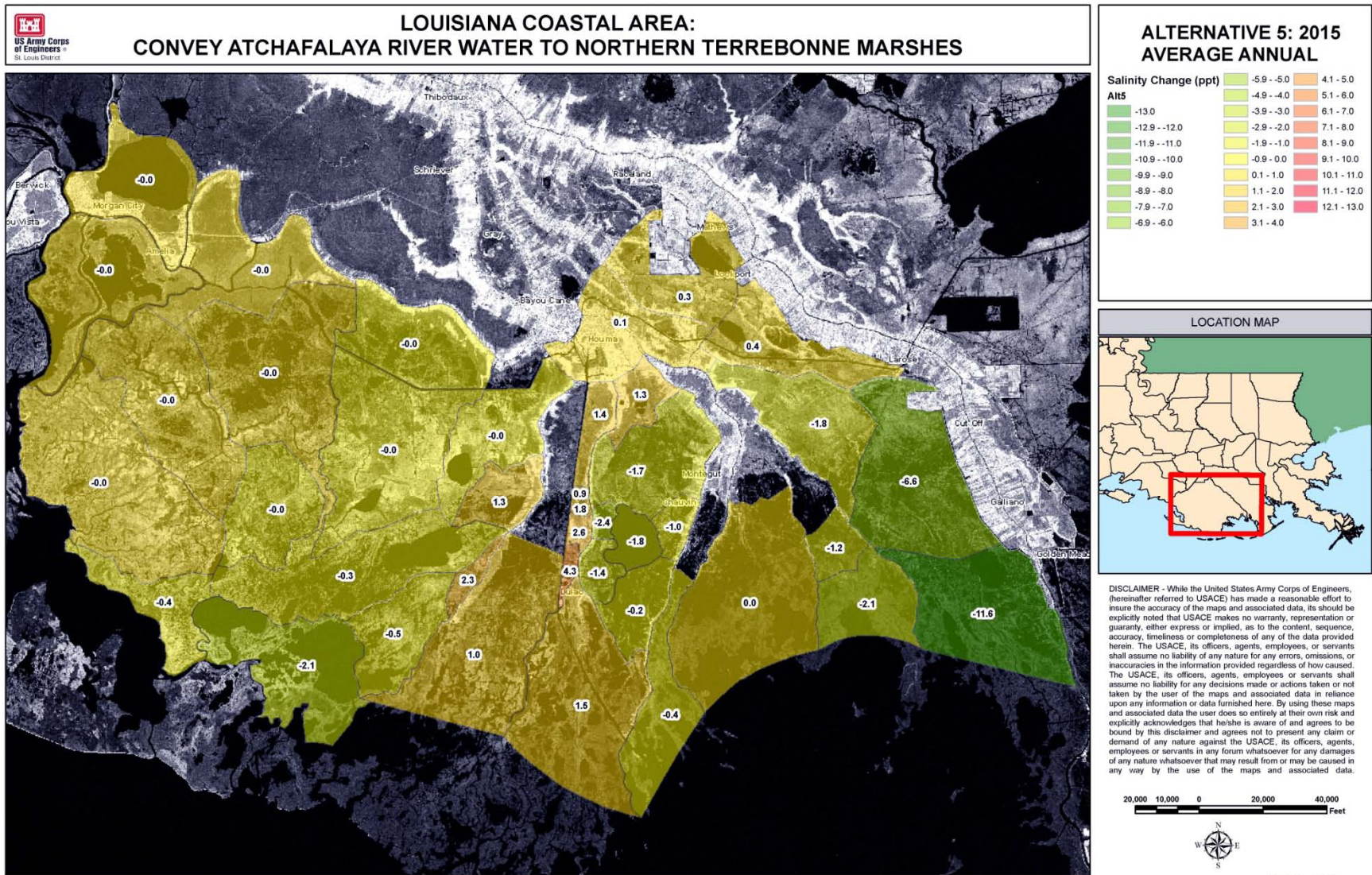


Figure L2-107 - Average annual salinity change for Alternative 5, 2015

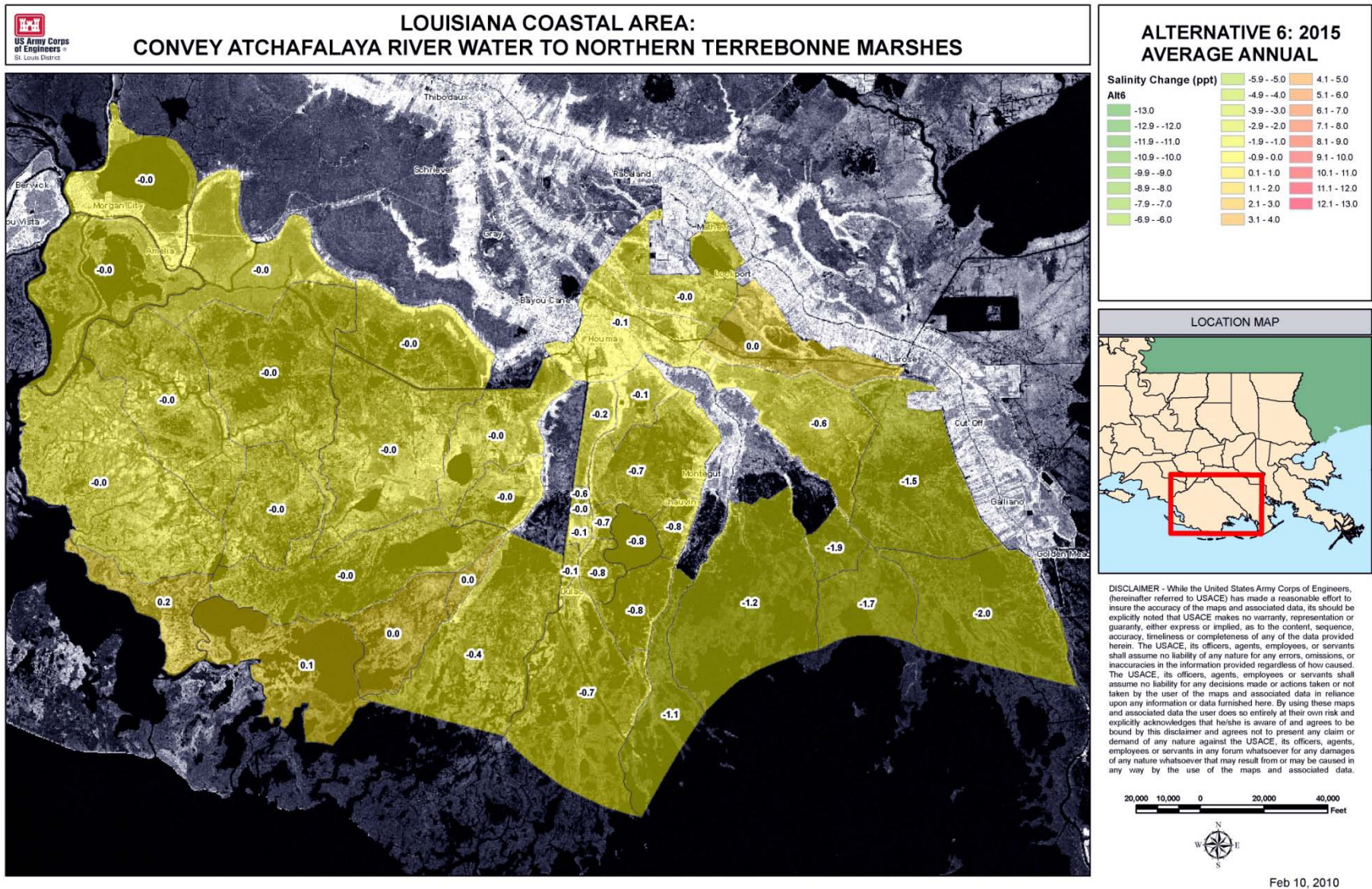


Figure L2-108 - Average annual salinity change for Alternative 6, 2015

1315

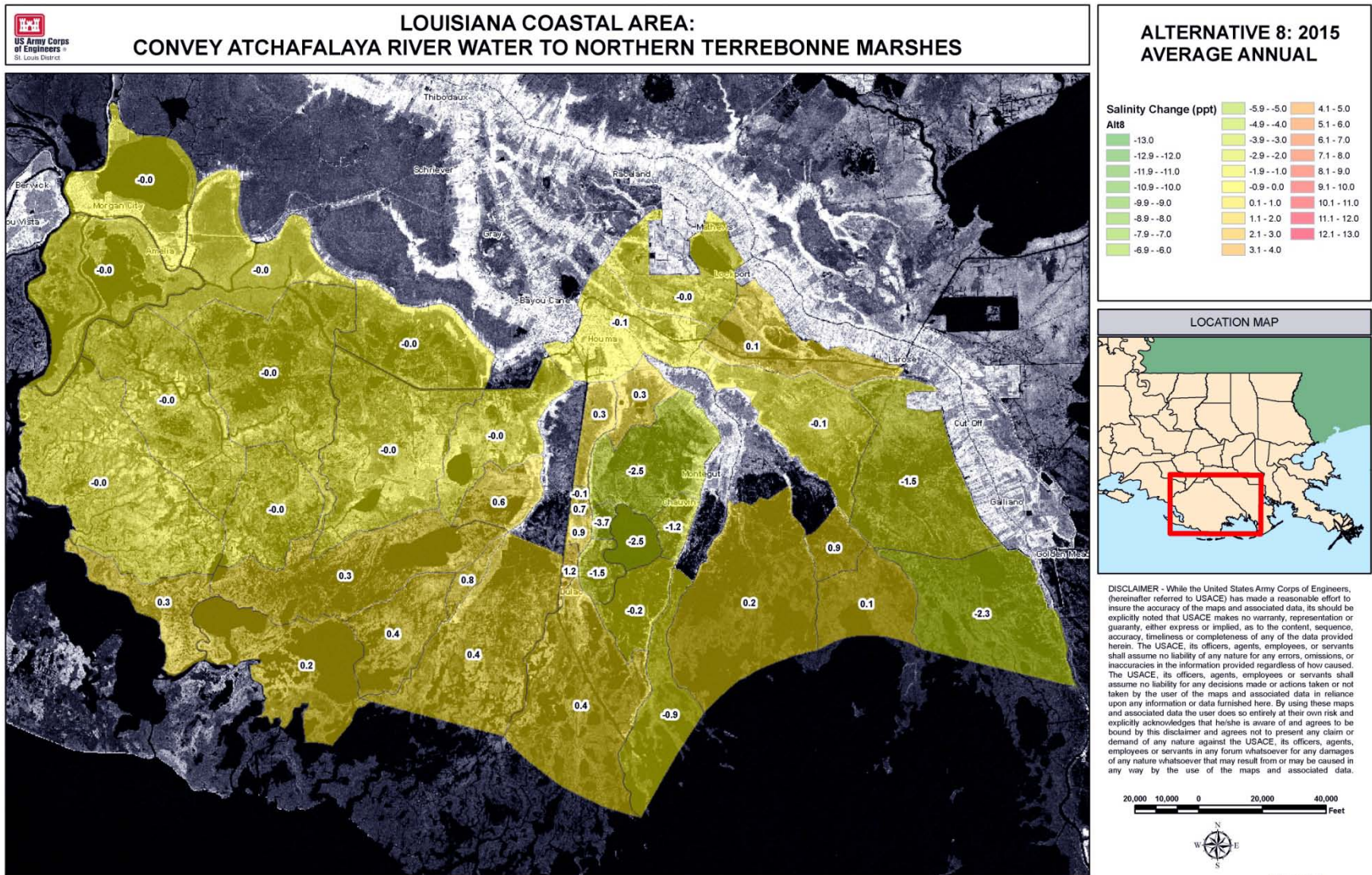


Figure L2-109 - Average annual salinity change for Alternative 8, 2015

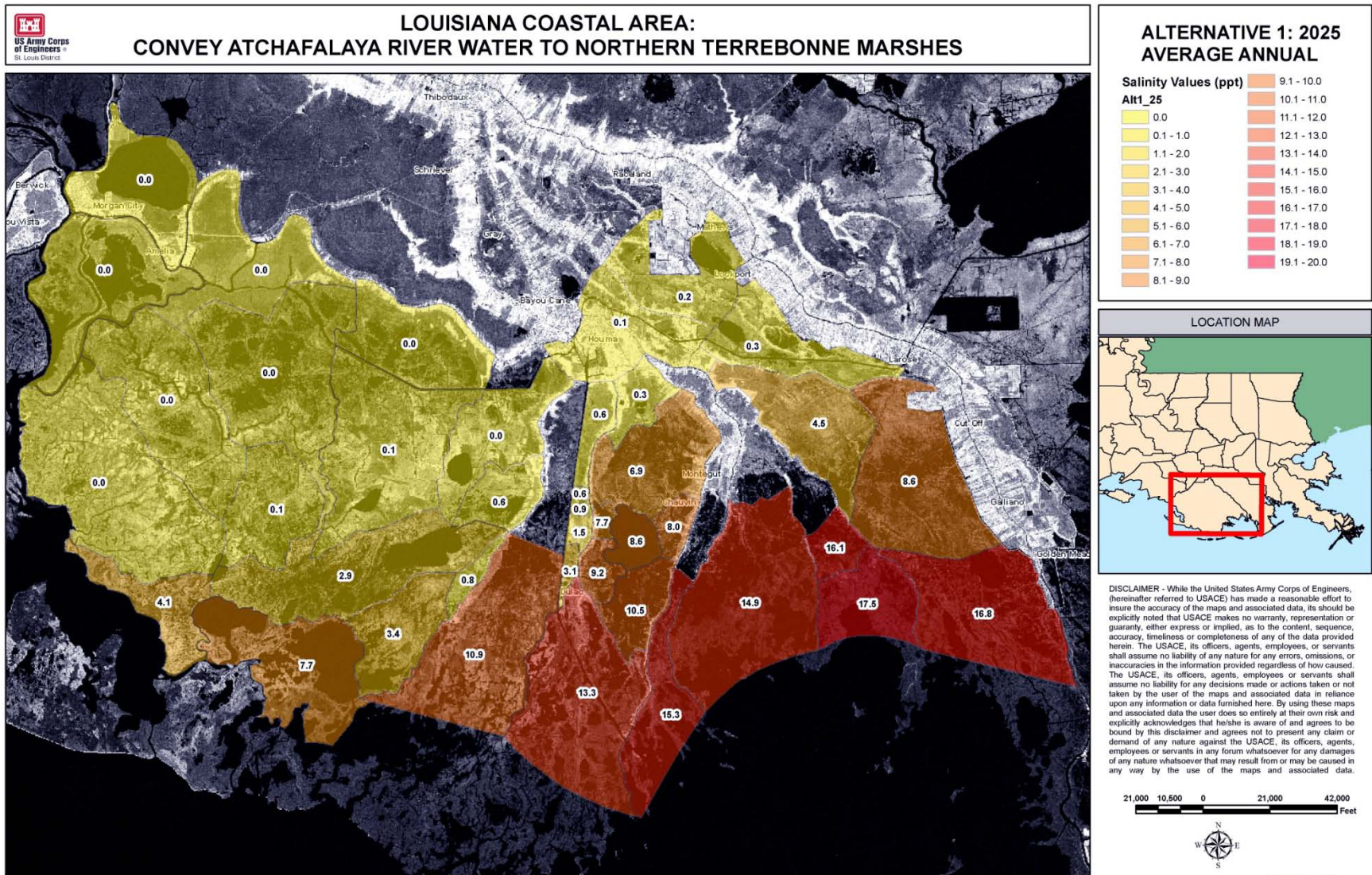
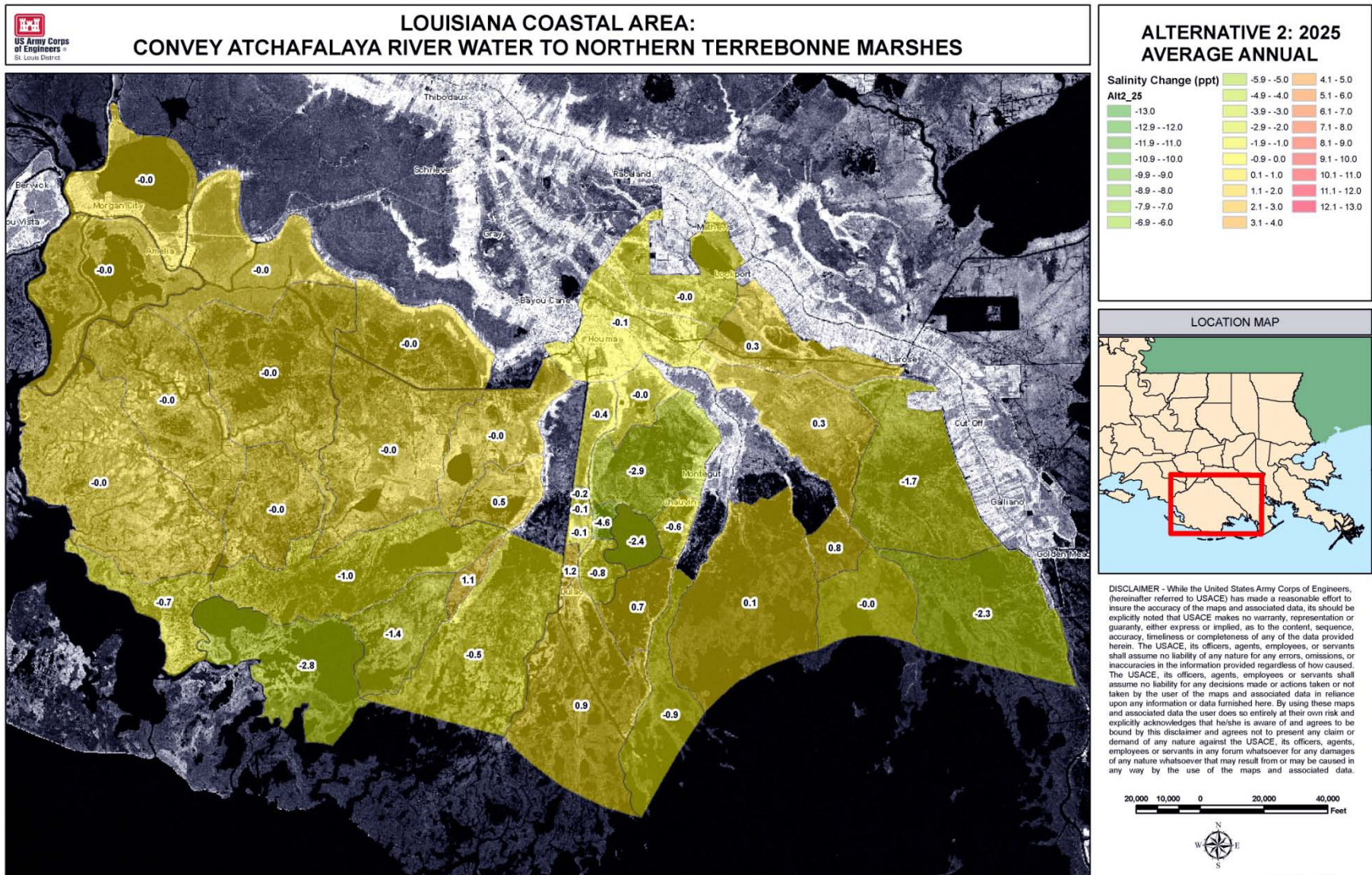


Figure L2-110 - Average annual salinity for Alternative 1, 2025



1320

Figure L2-111 - Average annual salinity change for Alternative 2, 2025

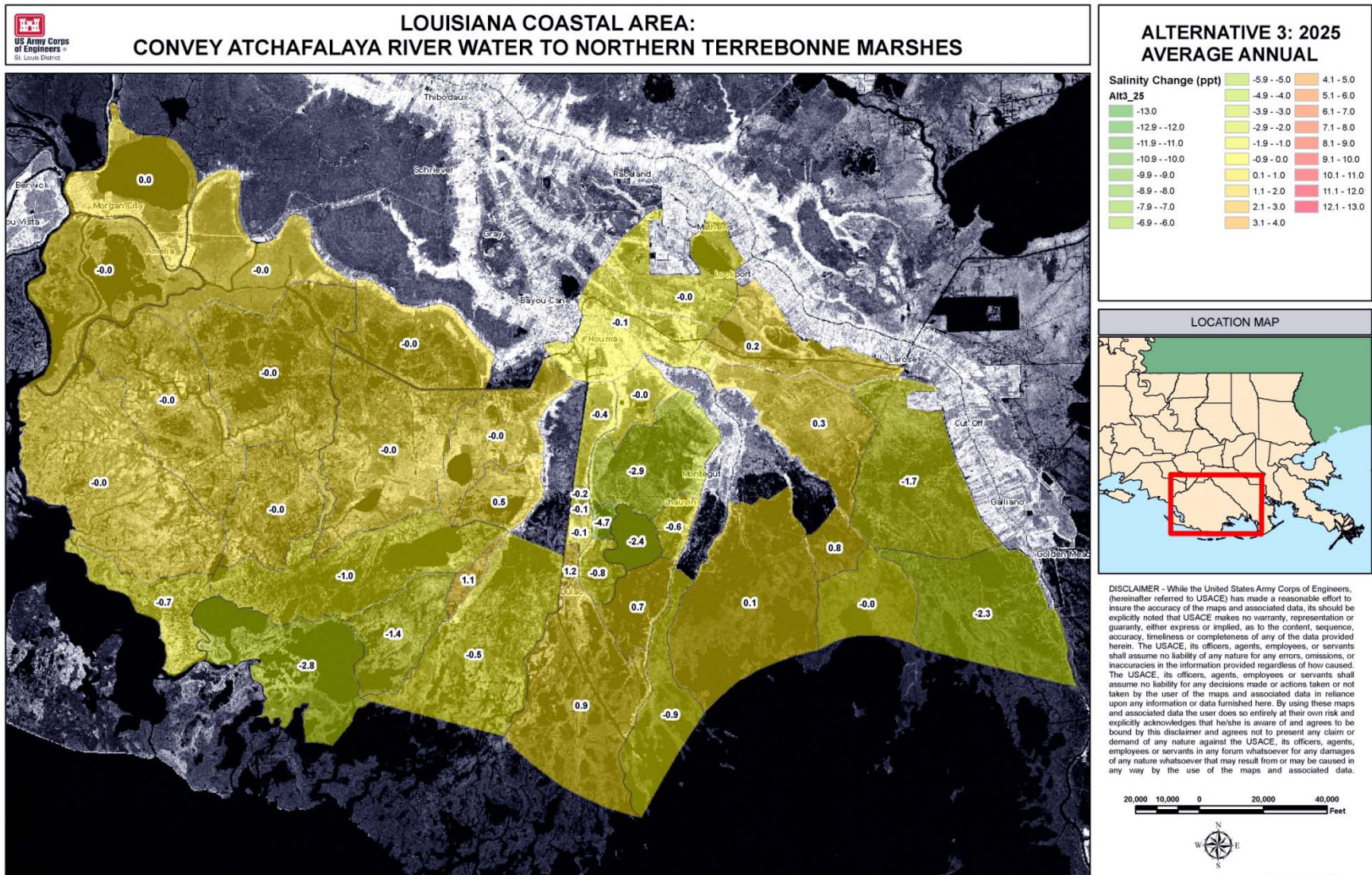
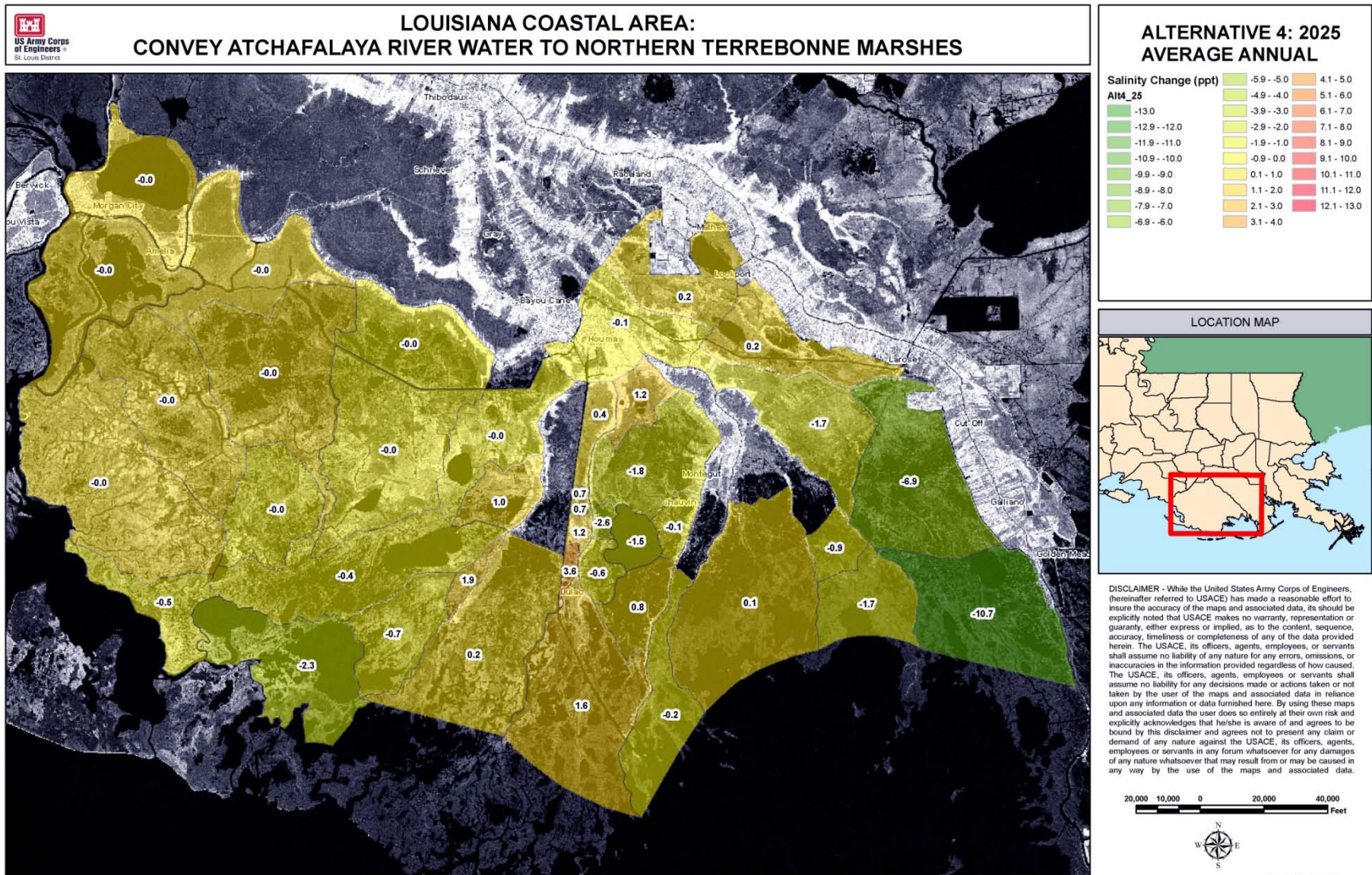


Figure L2-112 - Average annual salinity change for Alternative 3, 2025



1325 Figure L2-113 - Average annual salinity change for Alternative 4, 2025

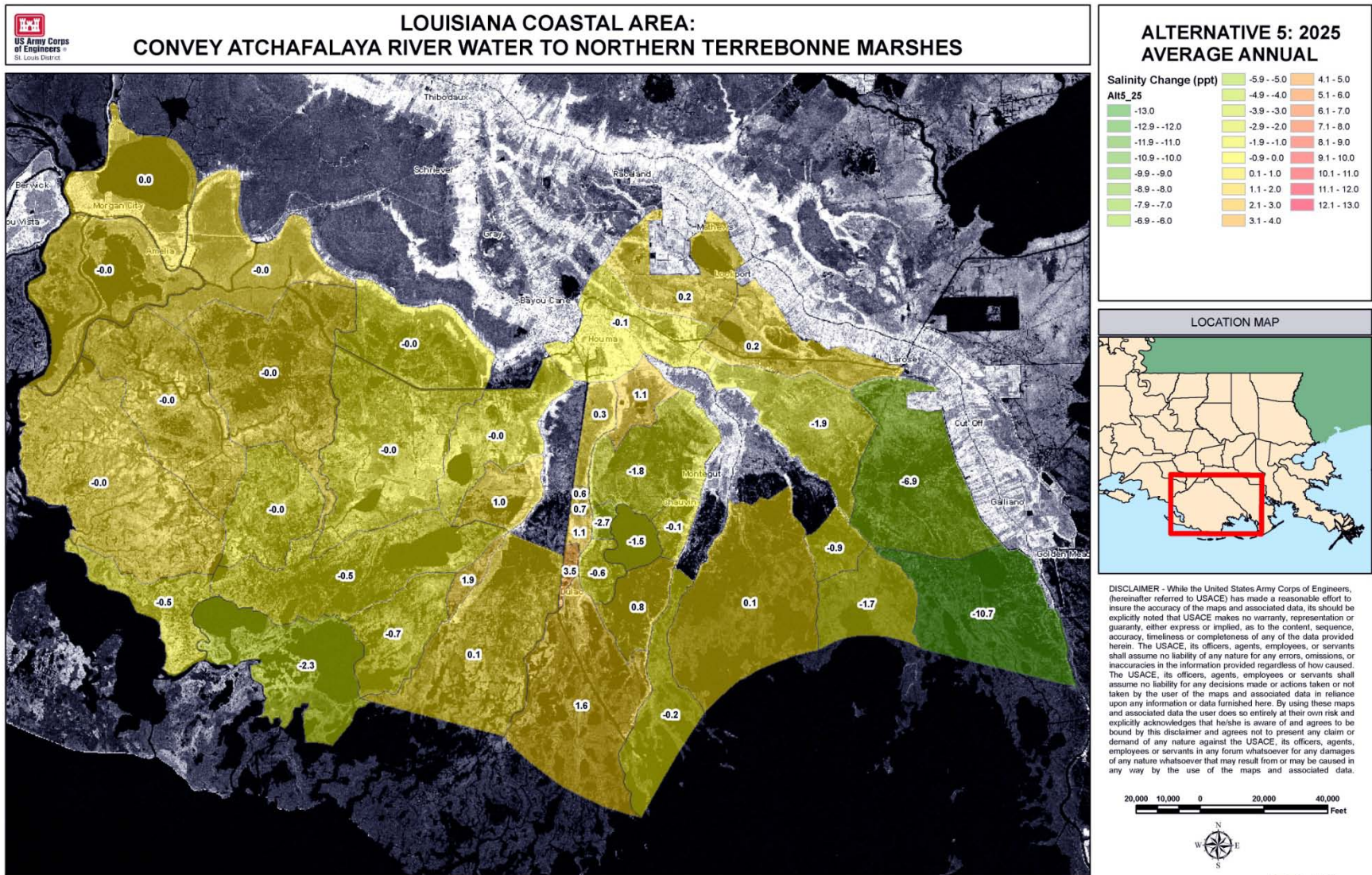


Figure L2-114 - Average annual salinity change for Alternative 5, 2025

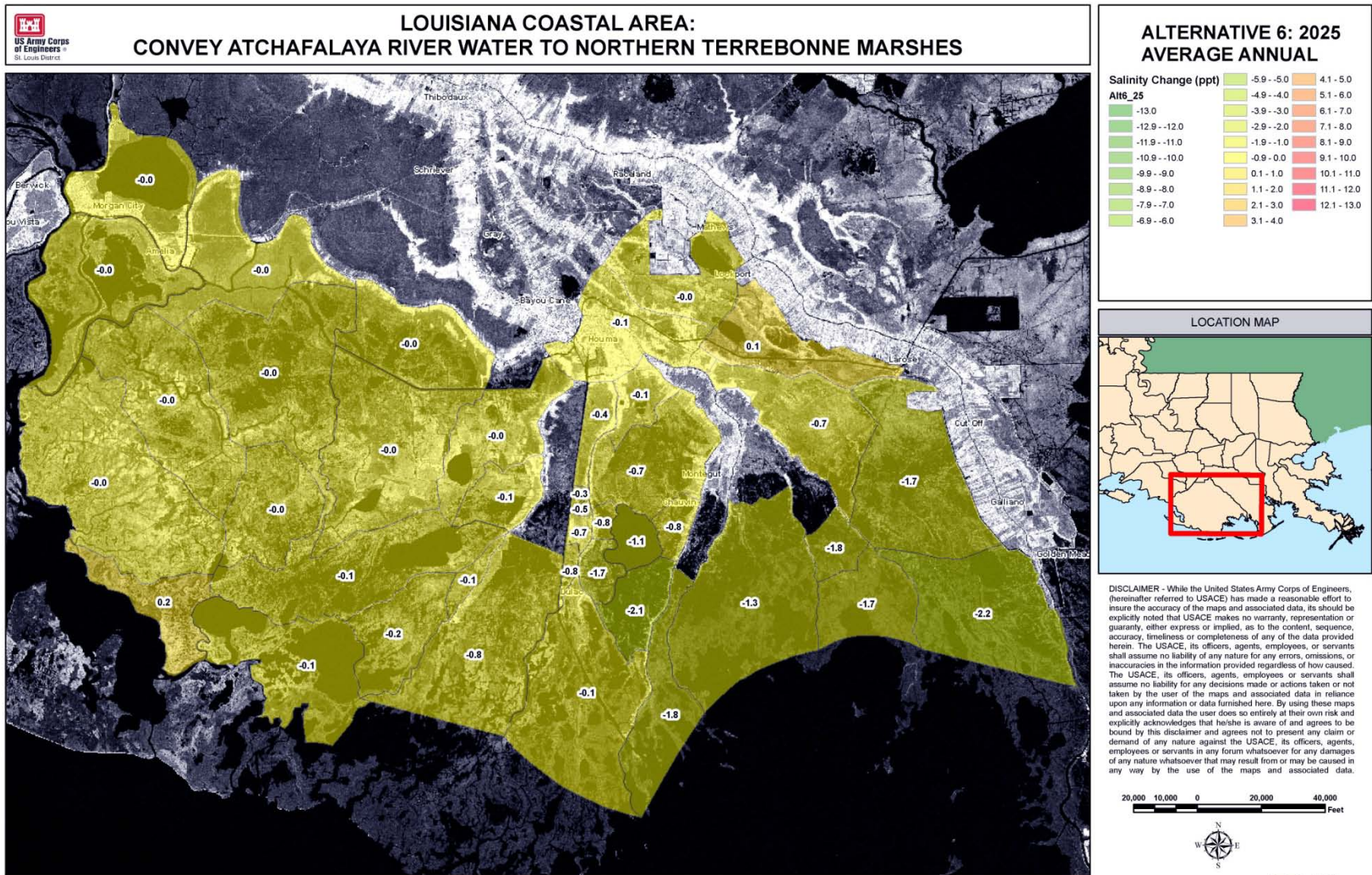
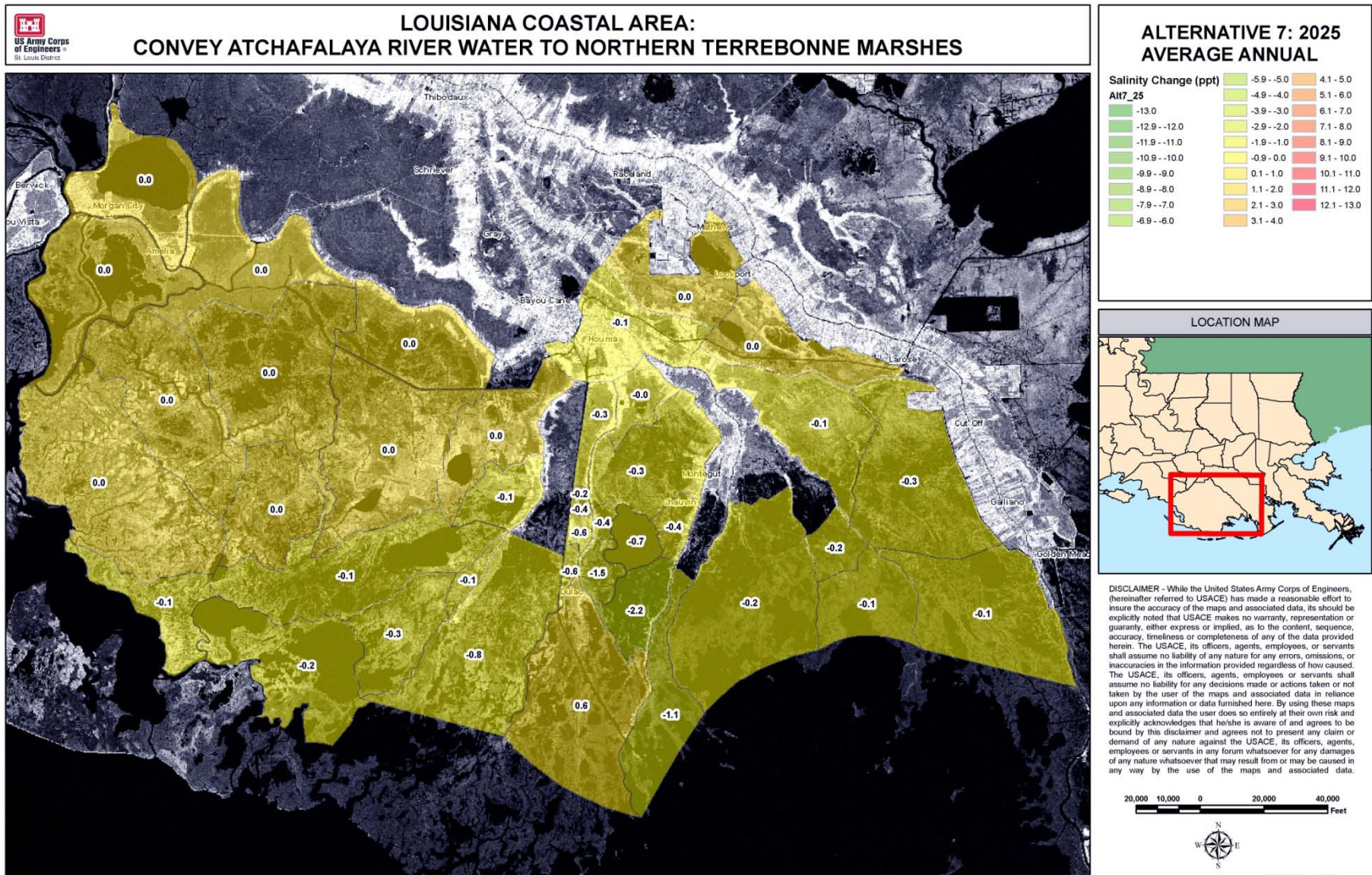


Figure L2-115 - Average annual salinity change for Alternative 6, 2025



1330

Figure L2-116 - Average annual salinity change for Alternative 7, 2025

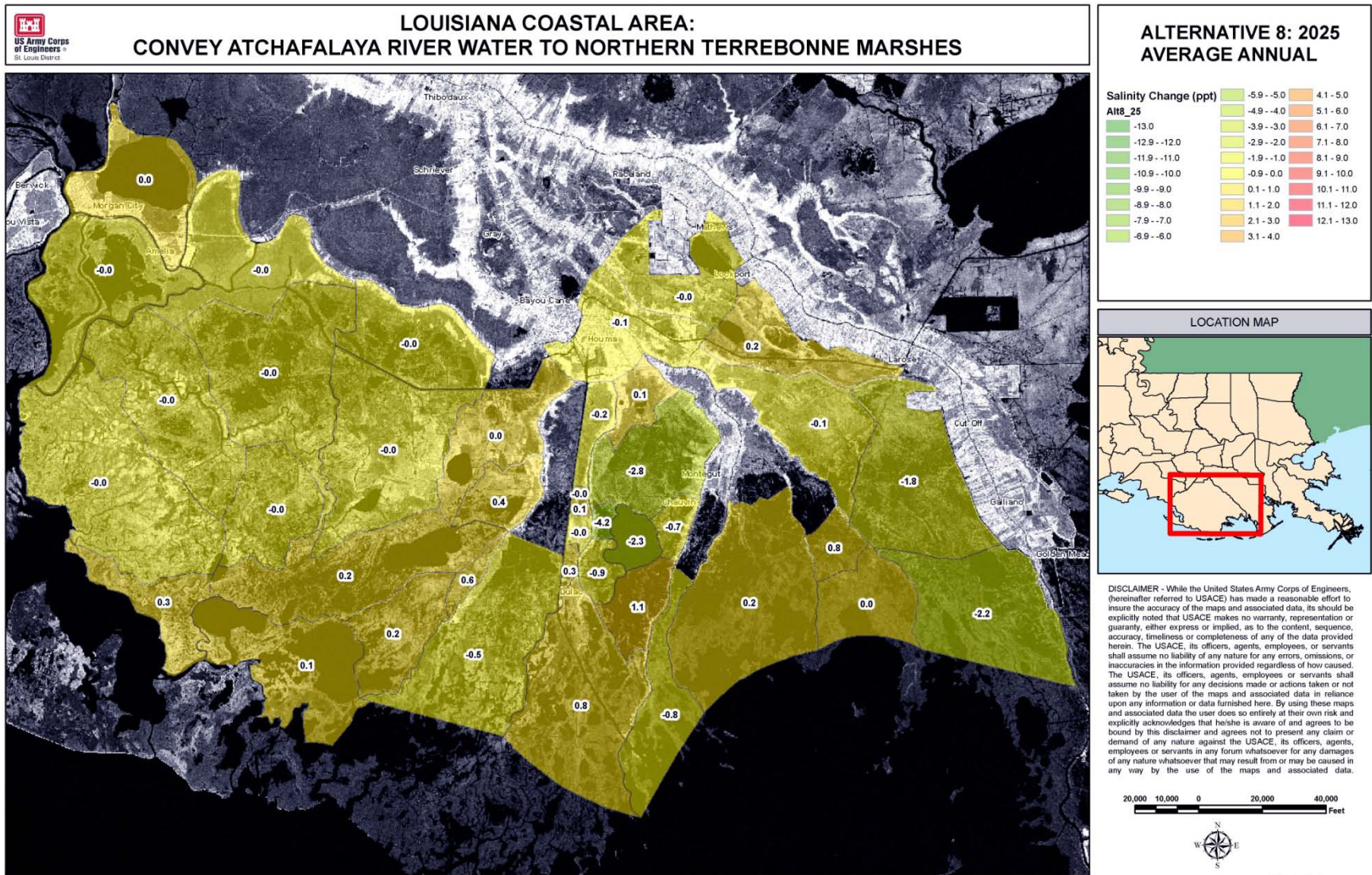


Figure L2-117 - Average annual salinity change for Alternative 8, 2025

1335

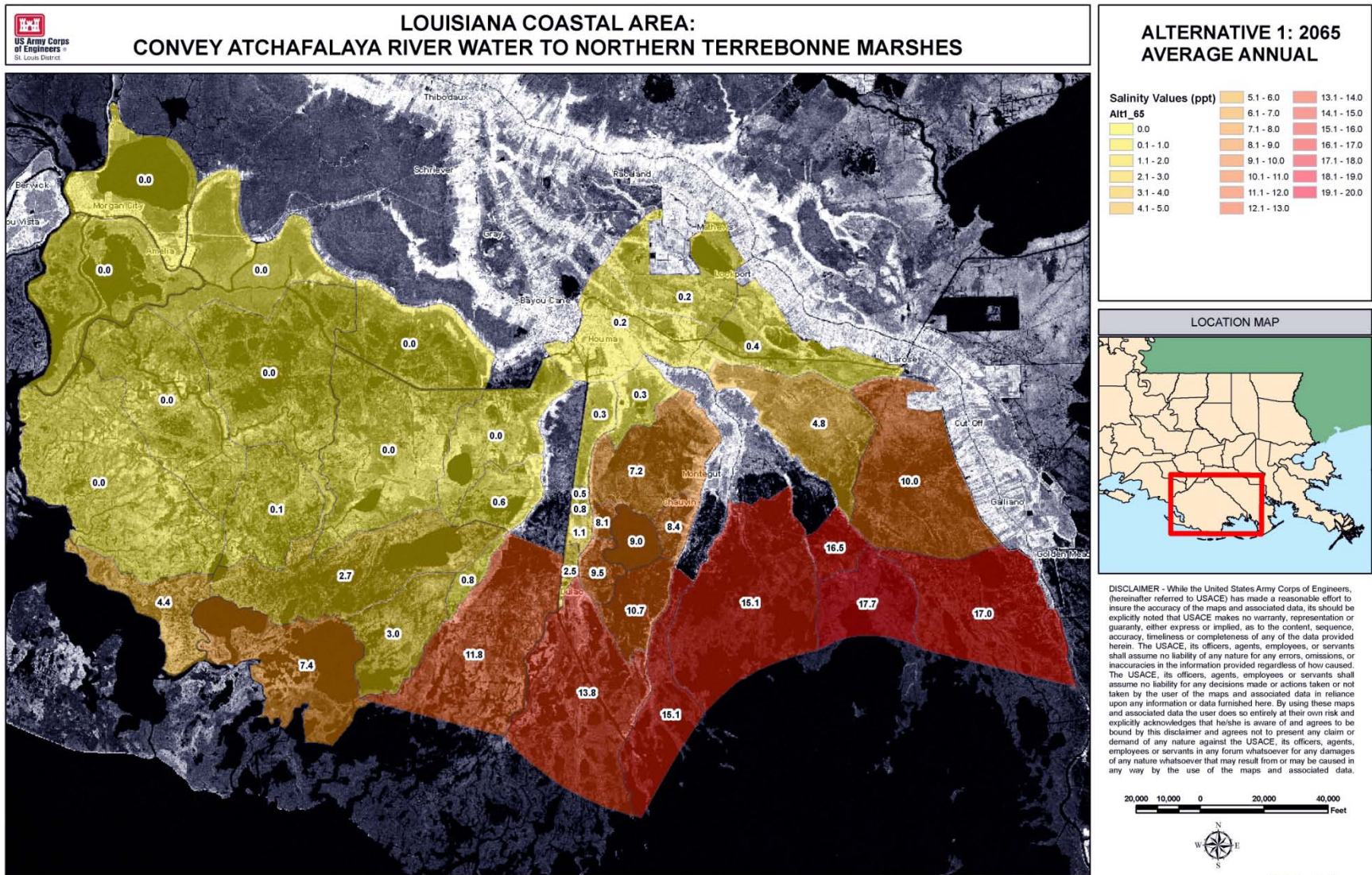


Figure L2-118 - Average annual salinity for Alternative 1, 2065

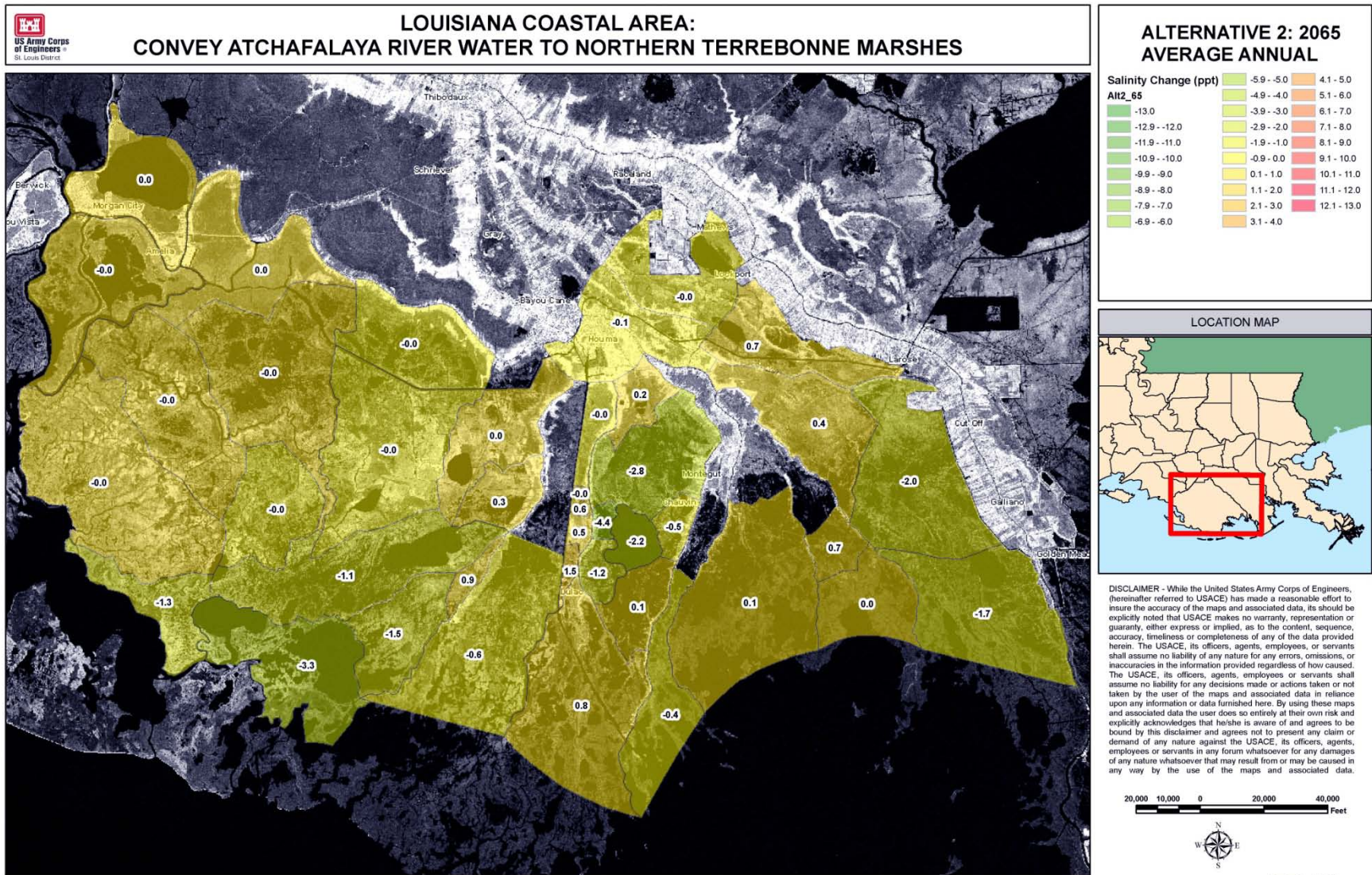
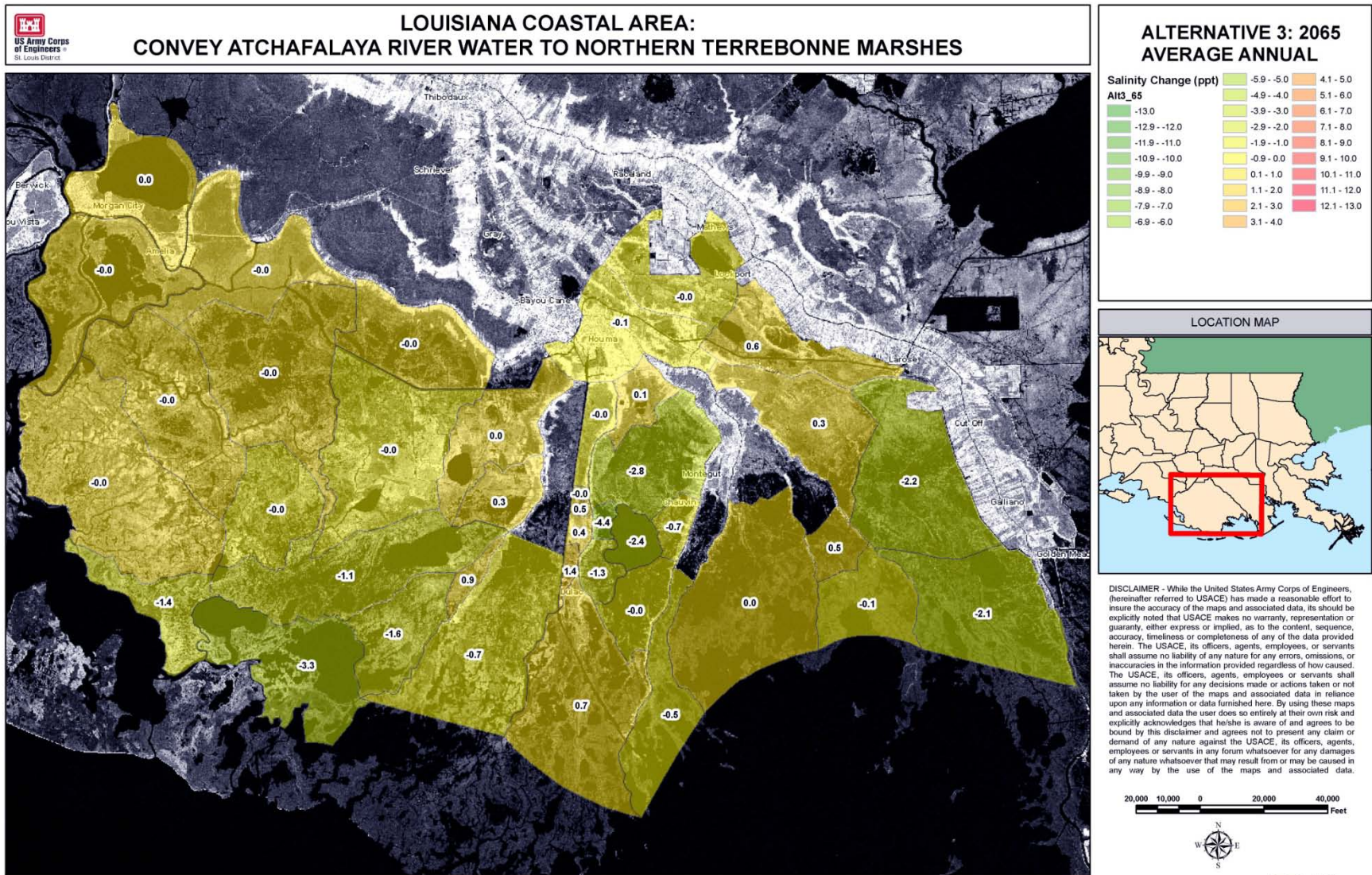


Figure L2-119 - Average annual salinity change for Alternative 2, 2065



1340

Figure L2-120 - Average annual salinity change for Alternative 3, 2065

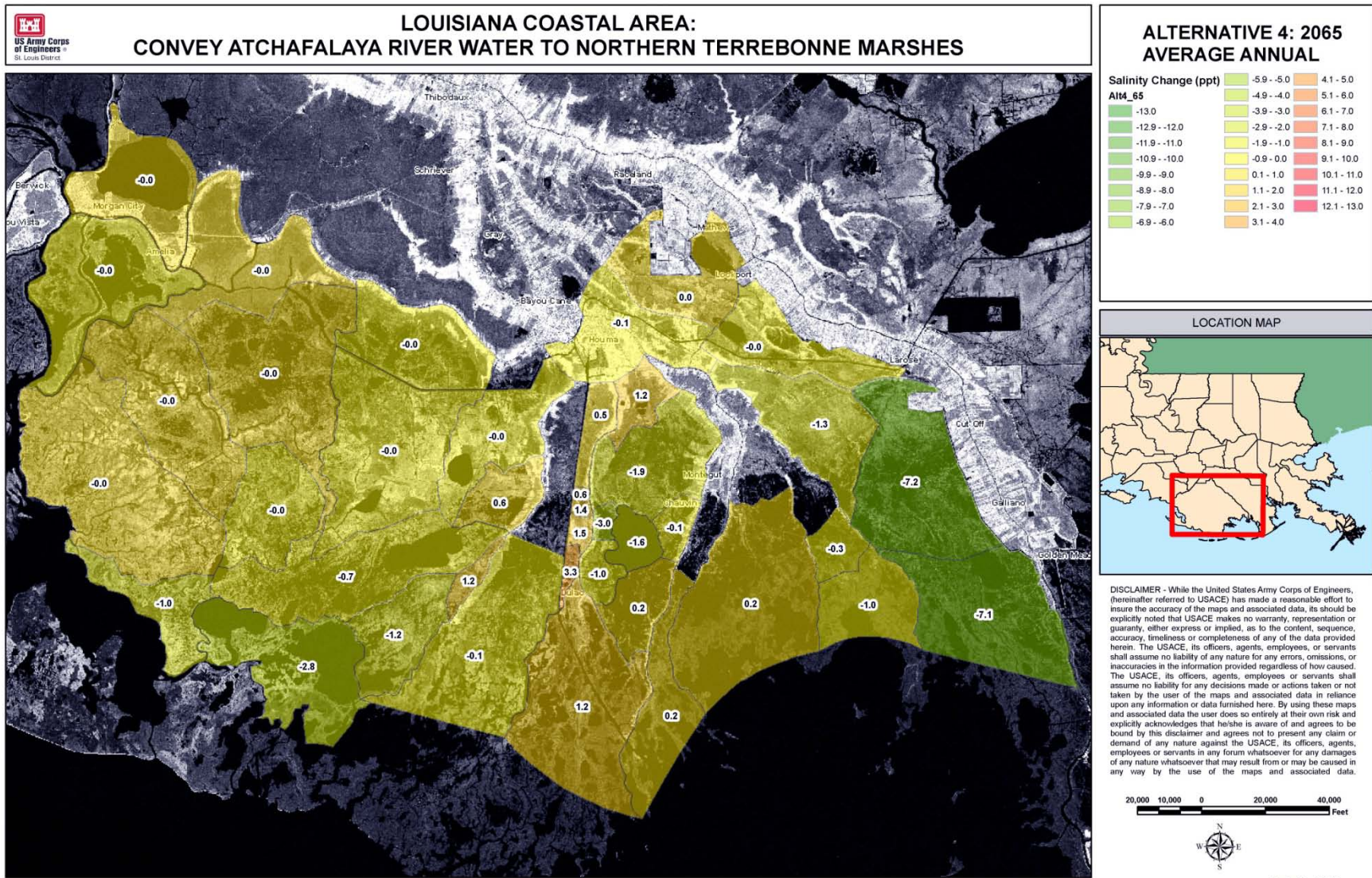
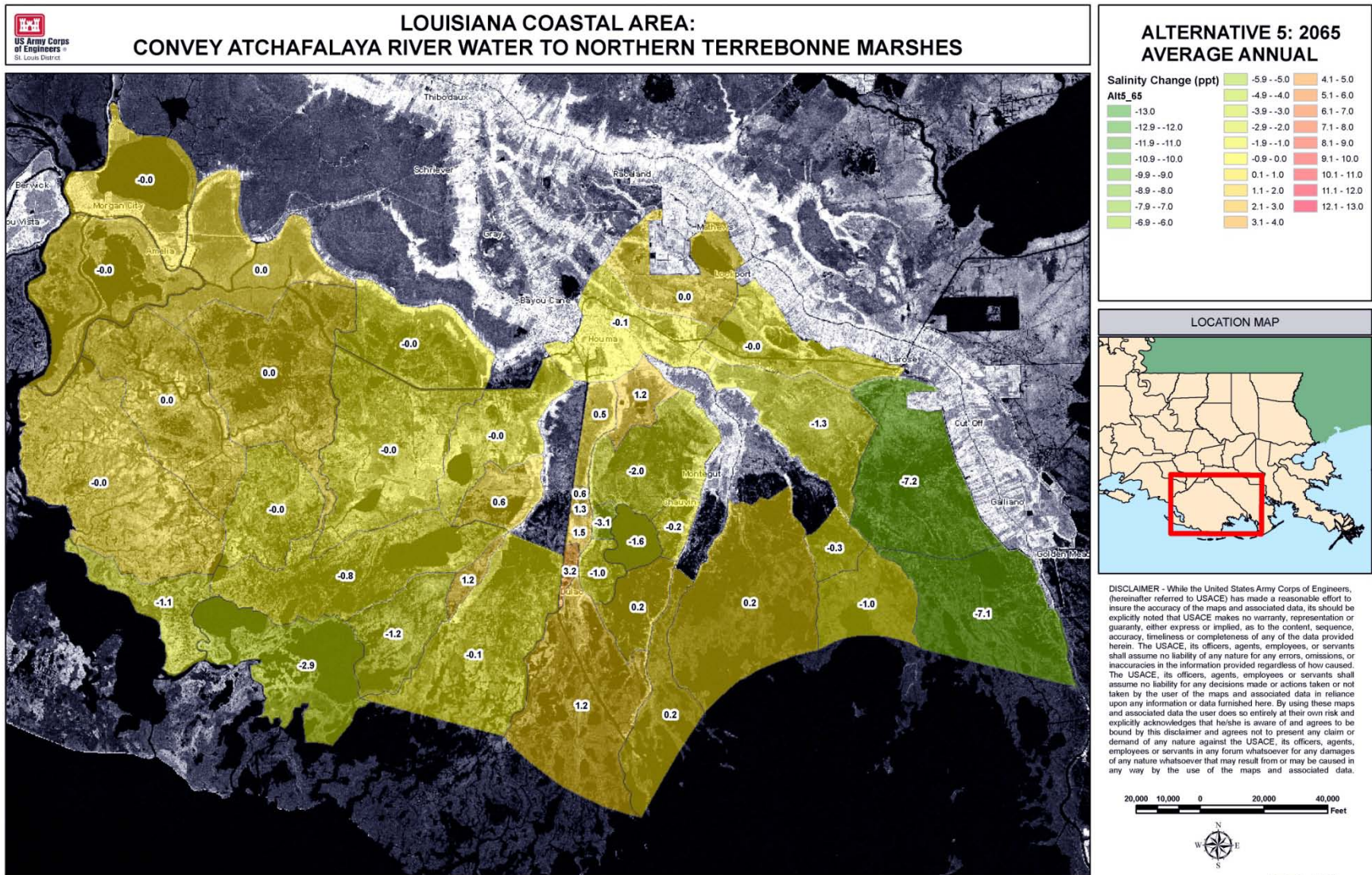


Figure L2-121 - Average annual salinity change for Alternative 4, 2065



1345 Figure L2-122 - Average annual salinity change for Alternative 5, 2065

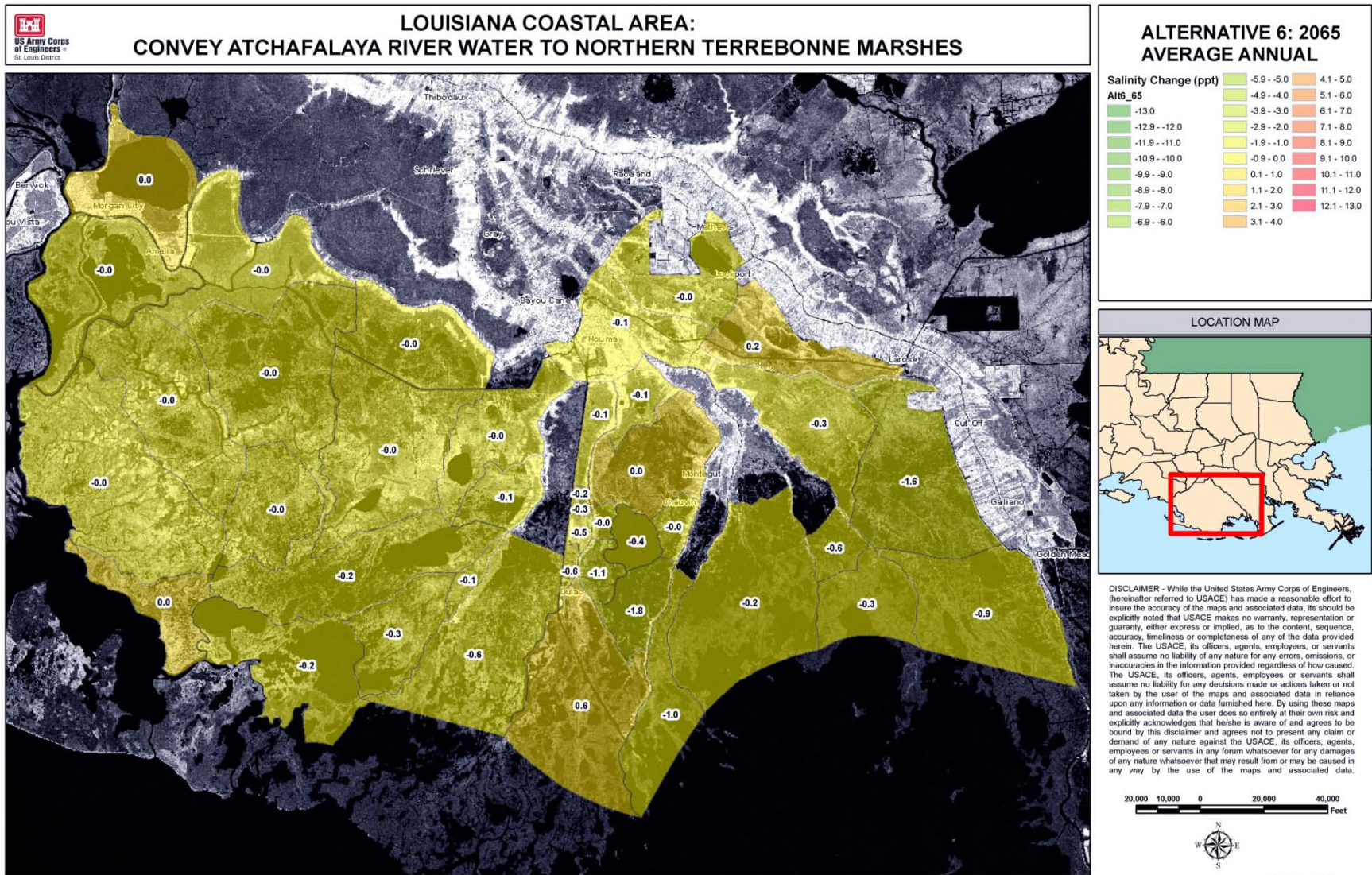


Figure L2-123 - Average annual salinity change for Alternative 6, 2065

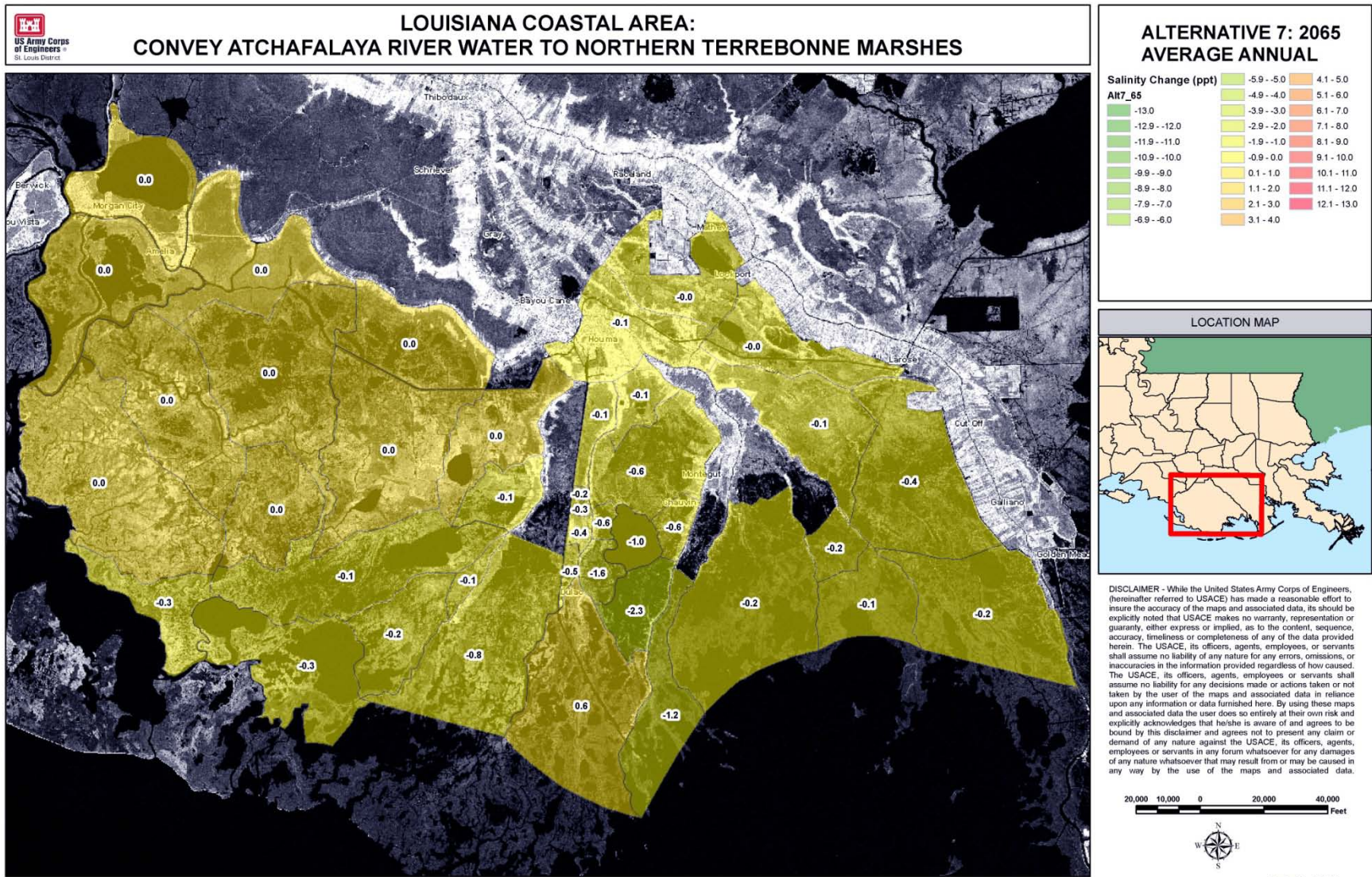


Figure L2-124 - Average annual salinity change for Alternative 7, 2065

1350

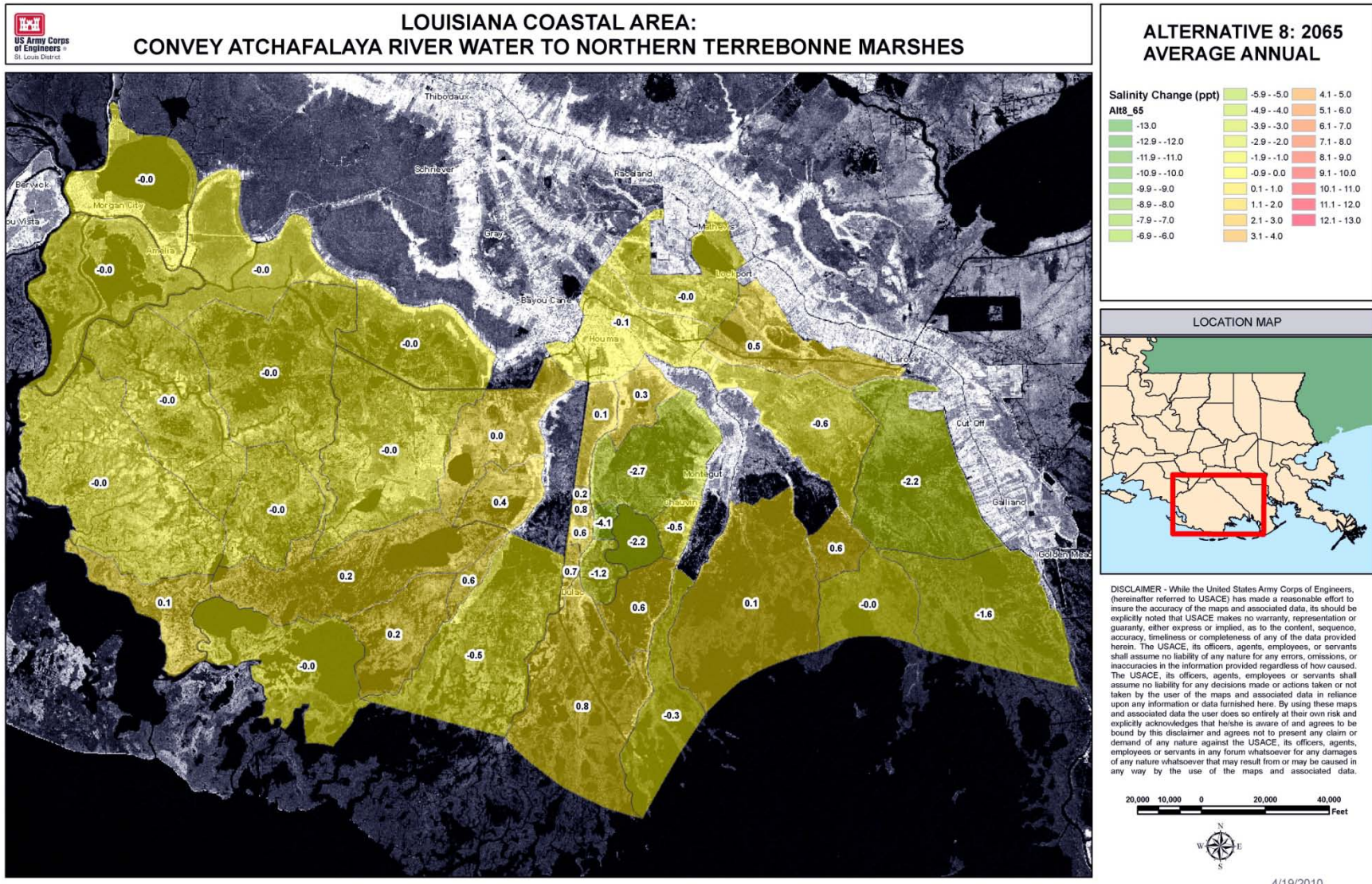


Figure L2-125 - Average annual salinity change for Alternative 8, 2065

Table L2-20 - Salinity change summary, 2015

2015	A1	A3 North	A3 South	A4	A5	A6 East	A6 West	A7	A8	A9	Avoca Island	B2 North	B2 South	B3	B5	B6 North	B6 South
Alt 1 Salinity																	
Jan	0.0	0.0	0.1	0.0	0.7	1.3	1.2	4.0	3.5	0.9	0.0	0.7	0.9	1.0	3.8	6.2	9.4
Feb	0.0	0.0	0.0	0.0	0.5	0.8	0.8	2.6	2.3	0.6	0.0	0.5	0.6	0.7	2.5	5.3	7.0
Mar	0.0	0.0	0.0	0.0	0.4	0.5	0.4	1.5	1.3	0.4	0.0	0.3	0.3	0.4	1.4	4.7	5.0
Apr	0.0	0.0	0.0	0.0	0.4	0.5	0.5	1.6	1.4	0.4	0.0	0.3	0.4	0.4	1.5	4.7	5.1
May	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.8	2.4
Jun	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.8	0.7	0.2	0.0	0.2	0.2	0.2	0.8	4.3	3.8
Jul	0.0	0.0	0.1	0.1	0.7	1.4	1.2	4.2	3.8	1.0	0.0	0.7	0.9	1.1	4.0	6.3	9.9
Aug	0.0	0.1	0.1	0.1	1.0	2.0	1.8	6.2	5.6	1.5	0.0	1.0	1.4	1.6	5.9	7.5	13.5
Sep	0.0	0.1	0.1	0.1	1.0	2.0	1.8	6.3	5.6	1.5	0.0	1.0	1.4	1.6	5.9	7.6	13.5
Oct	0.0	0.1	0.1	0.1	1.0	2.0	1.8	6.3	5.6	1.5	0.0	1.1	1.4	1.7	6.0	7.6	13.7
Nov	0.1	0.1	0.1	0.1	1.0	2.1	1.9	6.7	5.9	1.6	0.0	1.1	1.5	1.7	6.3	7.8	14.3
Dec	0.0	0.1	0.1	0.1	0.9	1.9	1.7	6.0	5.4	1.4	0.0	1.0	1.3	1.6	5.7	7.4	13.1
Avg	0.03	0.04	0.06	0.05	0.69	1.24	1.12	3.84	3.43	0.91	0.01	0.67	0.86	1.02	3.66	6.10	9.22
Alt 2 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	0.8	1.7	-0.7	-1.8	-1.1	1.6	0.0	-0.2	0.2	0.7	2.1	0.5	0.8
Feb	0.0	0.0	0.0	0.0	0.5	1.1	-0.5	-1.1	-0.7	1.0	0.0	-0.1	0.1	0.4	1.4	0.3	0.5
Mar	0.0	0.0	0.0	0.0	0.3	0.7	-0.3	-0.7	-0.4	0.6	0.0	-0.1	0.1	0.3	0.8	0.1	0.2
Apr	0.0	0.0	0.0	0.0	0.3	0.7	-0.3	-0.7	-0.4	0.6	0.0	-0.1	0.1	0.3	0.9	0.1	0.3
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	-0.1
Jun	0.0	0.0	0.0	0.0	0.1	0.3	-0.1	-0.4	-0.2	0.3	0.0	0.0	0.0	0.1	0.5	0.0	0.1
Jul	0.0	0.0	0.0	0.0	0.8	1.9	-0.7	-1.9	-1.2	1.7	0.0	-0.2	0.2	0.7	2.2	0.6	0.9
Aug	0.0	0.0	0.0	0.0	1.2	2.8	-1.1	-2.8	-1.7	2.5	0.0	-0.3	0.3	1.0	3.2	0.9	1.3
Sep	0.0	0.0	0.0	0.0	1.2	2.8	-1.1	-2.8	-1.7	2.5	0.0	-0.3	0.3	1.0	3.2	0.9	1.3
Oct	0.0	0.0	0.0	0.0	1.3	2.8	-1.1	-2.8	-1.7	2.5	0.0	-0.3	0.3	1.0	3.3	1.0	1.3
Nov	0.0	0.0	0.0	0.0	1.3	2.9	-1.2	-2.9	-1.8	2.6	0.0	-0.3	0.4	1.1	3.5	1.0	1.4
Dec	0.0	0.0	0.0	0.0	1.2	2.7	-1.1	-2.7	-1.6	2.4	0.0	-0.3	0.3	1.0	3.1	0.9	1.2
Avg	0.0	0.0	0.0	0.0	0.8	1.7	-0.7	-1.7	-1.0	1.5	0.0	-0.2	0.2	0.6	2.0	0.5	0.8
Alt 3																	
Jan	0.0	0.0	0.0	0.0	0.7	1.7	-0.7	-1.8	-1.1	1.6	0.0	-0.3	0.1	0.6	2.0	-0.9	-0.1
Feb	0.0	0.0	0.0	0.0	0.4	1.1	-0.5	-1.2	-0.7	1.0	0.0	-0.2	0.1	0.4	1.3	-1.9	-0.9
Mar	0.0	0.0	0.0	0.0	0.3	0.6	-0.3	-0.7	-0.4	0.6	0.0	-0.1	0.1	0.2	0.8	0.1	0.2
Apr	0.0	0.0	0.0	0.0	0.3	0.7	-0.3	-0.7	-0.4	0.6	0.0	-0.1	0.1	0.3	0.9	0.1	0.3
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	-0.1
Jun	0.0	0.0	0.0	0.0	0.1	0.3	-0.1	-0.4	-0.2	0.3	0.0	0.0	0.0	0.1	0.5	0.0	0.1
Jul	0.0	0.0	0.0	0.0	0.8	1.9	-0.8	-1.9	-1.2	1.7	0.0	-0.3	0.2	0.7	2.1	-0.7	0.0
Aug	0.0	0.0	0.0	0.0	1.2	2.7	-1.1	-2.8	-1.7	2.5	0.0	-0.4	0.2	1.0	3.2	0.7	1.1
Sep	0.0	0.0	0.0	0.0	1.2	2.8	-1.1	-2.8	-1.7	2.5	0.0	-0.4	0.2	1.0	3.2	0.7	1.1
Oct	0.0	0.0	0.0	0.0	1.2	2.8	-1.1	-2.8	-1.7	2.5	0.0	-0.4	0.2	1.0	3.2	0.8	1.2
Nov	0.0	0.0	0.0	0.0	1.3	2.9	-1.2	-3.0	-1.8	2.6	0.0	-0.4	0.3	1.1	3.4	1.0	1.4
Dec	0.0	0.0	0.0	0.0	1.2	2.6	-1.1	-2.7	-1.6	2.4	0.0	-0.4	0.2	1.0	3.0	0.5	1.0
Avg	0.0	0.0	0.0	0.0	0.7	1.7	-0.7	-1.7	-1.1	1.5	0.0	-0.2	0.1	0.6	2.0	0.0	0.4
Alt 4 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	1.3	2.9	-0.6	-1.3	-0.5	2.4	0.0	0.9	2.0	1.8	4.1	1.0	1.8
Feb	0.0	0.0	0.0	0.0	0.8	1.9	-0.4	-0.8	-0.3	1.5	0.0	0.6	1.3	1.1	2.7	0.6	1.2
Mar	0.0	0.0	0.0	0.0	0.5	1.1	-0.2	-0.5	-0.2	0.9	0.0	0.4	0.7	0.7	1.6	0.3	0.7
Apr	0.0	0.0	0.0	0.0	0.5	1.1	-0.2	-0.5	-0.2	0.9	0.0	0.4	0.8	0.7	1.7	0.3	0.7
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.0
Jun	0.0	0.0	0.0	0.0	0.2	0.6	-0.1	-0.3	-0.1	0.5	0.0	0.2	0.4	0.4	0.9	0.1	0.3
Jul	0.0	0.0	0.0	0.0	1.4	3.1	-0.6	-1.4	-0.5	2.5	0.0	1.0	2.1	1.9	4.4	1.1	1.9
Aug	0.0	0.0	0.0	0.0	2.1	4.6	-0.9	-2.0	-0.7	3.7	0.0	1.5	3.1	2.8	6.4	1.6	2.8
Sep	0.0	0.0	0.0	0.0	2.1	4.6	-0.9	-2.0	-0.7	3.7	0.0	1.5	3.2	2.8	6.4	1.6	2.8
Oct	0.0	0.0	0.0	0.0	2.1	4.7	-0.9	-2.0	-0.7	3.8	0.0	1.5	3.2	2.8	6.5	1.6	2.9
Nov	0.0	0.0	0.0	0.0	2.2	4.9	-1.0	-2.1	-0.8	4.0	0.0	1.6	3.4	3.0	6.9	1.7	3.0
Dec	0.0	0.0	0.0	0.0	2.0	4.4	-0.9	-1.9	-0.7	3.6	0.0	1.4	3.0	2.7	6.2	1.5	2.7
Avg	0.0	0.0	0.0	0.0	1.3	2.8	-0.6	-1.2	-0.5	2.3	0.0	0.9	1.9	1.7	4.0	0.9	1.7
Alt 5 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	1.3	3.0	-0.6	-1.3	-0.5	2.4	0.0	0.9	2.1	1.9	4.4	0.9	1.7
Feb	0.0	0.0	0.0	0.0	0.8	1.9	-0.4	-0.8	-0.3	1.5	0.0	0.6	1.3	1.2	2.9	0.5	1.1
Mar	0.0	0.0	0.0	0.0	0.5	1.1	-0.2	-0.5	-0.2	0.9	0.0	0.3	0.8	0.7	1.7	0.3	0.7
Apr	0.0	0.0	0.0	0.0	0.5	1.2	-0.2	-0.5	-0.2	0.9	0.0	0.4	0.8	0.7	1.8	0.3	0.7
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.0
Jun	0.0	0.0	0.0	0.0	0.2	0.6	-0.1	-0.3	-0.1	0.5	0.0	0.2	0.4	0.4	0.9	0.1	0.3
Jul	0.0	0.0	0.0	0.0	1.4	3.2	-0.7	-1.4	-0.5	2.5	0.0	1.0	2.2	2.0	4.7	1.0	1.9
Aug	0.0	0.0	0.0	0.0	2.1	4.7	-1.0	-2.0	-0.8	3.7	0.0	1.4	3.2	2.9	6.9	1.6	2.8
Sep	0.0	0.0	0.0	0.0	2.1	4.7	-1.0	-2.1	-0.8	3.7	0.0	1.4	3.2	2.9	6.9	1.6	2.8
Oct	0.0	0.0	0.0	0.0	2.1	4.8	-1.0	-2.1	-0.8	3.8	0.0	1.4	3.3	3.0	7.0	1.6	2.9
Nov	0.0	0.0	0.0	0.0	2.2	5.0	-1.0	-2.2	-0.8	4.0	0.0	1.5	3.5	3.1	7.3	1.7	3.0
Dec	0.0	0.0	0.0	0.0	2.0	4.5	-0.9	-2.0	-0.7	3.6	0.0	1.4	3.1	2.8	6.6	1.5	2.7
Avg	0.0	0.0	0.0	0.0	1.3	2.9	-0.6	-1.3	-0.5	2.3	0.0	0.9	2.0	1.8	4.3	0.9	1.7
Alt 6 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	-0.2	-1.3	-0.9
Feb	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.1	0.0	-0.1	-2.2	-1.4
Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.1	0.1
Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.1	0.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Jul	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	-0.2	-1.1	-0.8
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.3	-0.3	0.0	-0.2	0.1	0.0
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.3	-0.3	0.0	-0.2	0.1	0.0
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.3	-0.3	0.0	-0.2	0.2	0.0
Nov	0.0	0.0	0.0	0.0	0.1	0.0	-0.1	0.0	0.0	0.1	0.0	-0.3	-0.3	-0.1	-0.2	0.4	0.1
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.3	-0.3	0.0	-0.2	0.0	-0.1
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	-0.1	-0.3	-0.2
Alt 8 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	0.6	0.9	0.0	0.3	0.4	0.8	0.0	0.0	0.5	0.8	1.2	0.4	0.6
Feb	0.0	0.0	0.0	0.0	0.4	0.6	0.0	0.2	0.3	0.5	0.0	0.0	0.3	0.5	0.8	0.3	0.5
Mar	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.1	0.2	0.3	0.0						

2015	B7 North	B7 Southeast	B7 Southwest	B8	B9	Bayou Black	Bayou Copasaw	Bayou Penchant	Big Carencro Bayou	C1	C10 North	C10 South	C10 West	C14 Central	C14 North	C14 South	C2
Alt 1	Salinity																
Jan	10.2	13.0	15.5	1.3	1.8	0.0	0.0	0.0	4.2	0.3	8.7	10.6	9.3	17.6	9.3	19.3	5.7
Feb	7.6	10.0	12.0	0.9	1.2	0.0	0.0	0.0	2.7	0.2	8.2	9.4	8.7	14.2	6.3	16.4	5.8
Mar	5.5	7.7	9.2	0.6	0.7	0.0	0.0	0.0	1.6	0.1	7.9	8.4	8.2	11.5	3.9	14.0	5.9
Apr	5.7	7.8	9.4	0.6	0.7	0.0	0.0	0.0	1.7	0.1	7.9	8.5	8.2	11.7	4.0	14.2	5.9
May	2.7	4.5	5.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.4	7.1	7.5	7.8	0.6	10.9	6.0
Jun	4.2	6.2	7.4	0.4	0.4	0.0	0.0	0.0	0.8	0.1	7.7	7.8	7.9	9.8	2.4	12.6	6.0
Jul	10.7	13.6	16.2	1.3	1.9	0.0	0.0	0.0	4.5	0.3	8.8	10.9	9.4	18.3	9.9	19.9	5.7
Aug	14.4	18.0	21.3	1.9	2.8	0.0	0.0	0.0	6.6	0.5	9.4	12.7	10.3	23.2	14.2	24.2	5.5
Sep	14.5	18.0	21.3	1.9	2.8	0.0	0.0	0.0	6.7	0.5	9.5	12.7	10.3	23.3	14.3	24.2	5.5
Oct	14.6	18.2	21.5	1.9	2.9	0.0	0.0	0.0	6.7	0.5	9.5	12.7	10.3	23.5	14.5	24.4	5.5
Nov	15.2	18.9	22.4	2.0	3.0	0.0	0.0	0.0	7.1	0.5	9.6	13.0	10.4	24.3	15.2	25.1	5.5
Dec	14.0	17.5	20.7	1.9	2.7	0.0	0.0	0.0	6.4	0.5	9.4	12.4	10.2	22.7	13.7	23.7	5.6
Avg	9.94	12.78	15.17	1.23	1.76	0.01	0.00	0.00	4.09	0.31	8.66	10.52	9.21	17.33	9.02	19.06	5.72
Alt 2	Change in Salinity																
Jan	0.7	0.4	-0.3	-0.3	1.1	0.0	0.0	0.0	-0.6	0.1	-2.4	-0.5	-1.7	0.1	1.2	0.0	0.0
Feb	0.4	0.1	-0.6	-0.2	0.7	0.0	0.0	0.0	-0.4	0.1	-3.9	-0.1	-2.6	0.0	0.9	0.0	-0.2
Mar	0.1	-0.1	-0.7	-0.1	0.4	0.0	0.0	0.0	-0.2	0.0	-5.0	0.3	-3.3	0.0	0.6	0.0	-0.4
Apr	0.1	-0.1	-0.7	-0.1	0.4	0.0	0.0	0.0	-0.2	0.0	-4.9	0.3	-3.2	0.0	0.6	0.0	-0.4
May	-0.2	-0.5	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.5	0.8	-4.2	0.0	0.3	0.1	-0.7
Jun	0.0	-0.3	-0.8	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-5.7	0.5	-3.7	0.0	0.5	0.1	-0.6
Jul	0.8	0.5	-0.3	-0.3	1.2	0.0	0.0	0.0	-0.7	0.1	-2.1	-0.6	-1.6	0.1	1.2	0.0	0.0
Aug	1.2	0.9	0.1	-0.4	1.7	0.0	0.0	0.0	-1.0	0.2	-0.1	-1.3	-0.4	0.1	1.6	0.0	0.4
Sep	1.3	1.0	0.1	-0.4	1.7	0.0	0.0	0.0	-1.0	0.2	0.0	-1.3	-0.3	0.1	1.6	0.0	0.4
Oct	1.3	1.0	0.1	-0.4	1.7	0.0	0.0	0.0	-1.0	0.2	0.0	-1.4	-0.3	0.1	1.7	0.0	0.4
Nov	1.3	1.0	0.1	-0.4	1.8	0.0	0.0	0.0	-1.1	0.2	0.4	-1.5	-0.1	0.1	1.7	0.0	0.4
Dec	1.2	0.9	0.0	-0.4	1.6	0.0	0.0	0.0	-1.0	0.2	-0.3	-1.2	-0.5	0.1	1.6	0.0	0.3
Avg	0.7	0.4	-0.3	-0.2	1.1	0.0	0.0	0.0	-0.6	0.1	-2.5	-0.5	-1.8	0.1	1.1	0.0	0.0
Alt 3	Change in Salinity																
Jan	-0.3	-1.2	-2.1	-0.3	1.0	0.0	0.0	0.0	-0.7	0.1	-2.8	-3.8	-3.1	-3.1	0.7	-4.4	-2.2
Feb	-1.2	-2.3	-3.3	-0.3	0.7	0.0	0.0	0.0	-0.4	0.1	-4.4	-4.9	-4.6	-4.8	0.3	-6.7	-3.5
Mar	0.1	-0.1	-0.7	-0.1	0.4	0.0	0.0	0.0	-0.2	0.0	-5.0	0.3	-3.3	0.0	0.6	0.0	-0.4
Apr	0.1	-0.1	-0.7	-0.1	0.4	0.0	0.0	0.0	-0.2	0.0	-4.9	0.3	-3.2	0.0	0.6	0.0	-0.4
May	-0.2	-0.5	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.5	0.8	-4.2	0.0	0.3	0.1	-0.7
Jun	0.0	-0.3	-0.9	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-5.7	0.5	-3.7	0.0	0.5	0.1	-0.5
Jul	-0.2	-1.0	-1.9	-0.4	1.1	0.0	0.0	0.0	-0.7	0.1	-2.5	-3.5	-2.8	-2.8	0.8	-4.0	-1.9
Aug	1.1	0.7	-0.2	-0.5	1.7	0.0	0.0	0.0	-1.0	0.1	-0.1	-1.8	-0.6	-0.4	1.5	-0.7	0.0
Sep	1.1	0.7	-0.2	-0.5	1.7	0.0	0.0	0.0	-1.0	0.1	-0.1	-1.8	-0.6	-0.4	1.5	-0.7	0.1
Oct	1.1	0.8	-0.2	-0.5	1.7	0.0	0.0	0.0	-1.1	0.1	0.0	-1.8	-0.5	-0.3	1.6	-0.5	0.1
Nov	1.3	1.0	0.1	-0.5	1.8	0.0	0.0	0.0	-1.1	0.2	0.4	-1.5	-0.1	0.1	1.7	0.0	0.5
Dec	0.9	0.5	-0.4	-0.5	1.6	0.0	0.0	0.0	-1.0	0.1	-0.4	-2.0	-0.8	-0.7	1.4	-1.1	-0.2
Avg	0.3	-0.2	-1.0	-0.3	1.0	0.0	0.0	0.0	-0.6	0.1	-2.7	-1.6	-2.3	-1.0	1.0	-1.5	-0.8
Alt 4	Change in Salinity																
Jan	1.7	1.1	0.0	1.6	2.6	0.0	0.0	0.0	-0.4	1.3	-1.6	-0.2	-1.3	0.2	2.7	0.0	0.0
Feb	1.0	0.6	-0.3	1.0	1.7	0.0	0.0	0.0	-0.3	0.9	-3.3	0.2	-2.3	0.2	1.9	0.0	-0.2
Mar	0.5	0.2	-0.5	0.6	1.0	0.0	0.0	0.0	-0.2	0.5	-4.7	0.5	-3.1	0.1	1.2	0.0	-0.4
Apr	0.6	0.2	-0.5	0.6	1.0	0.0	0.0	0.0	-0.2	0.5	-4.6	0.4	-3.0	0.1	1.3	0.0	-0.4
May	-0.1	-0.4	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.5	0.8	-4.1	0.0	0.4	0.0	-0.7
Jun	0.2	-0.1	-0.7	0.3	0.5	0.0	0.0	0.0	-0.1	0.3	-5.5	0.6	-3.5	0.1	0.8	0.0	-0.5
Jul	1.8	1.2	0.1	1.7	2.8	0.0	0.0	0.0	-0.5	1.4	-1.3	-0.2	-1.1	0.2	2.9	0.0	0.0
Aug	2.7	2.0	0.5	2.5	4.1	0.0	0.0	0.0	-0.7	2.1	1.2	-0.8	0.3	0.3	4.0	0.0	0.4
Sep	2.7	2.0	0.5	2.5	4.1	0.0	0.0	0.0	-0.7	2.1	1.2	-0.8	0.3	0.3	4.1	0.0	0.4
Oct	2.8	2.0	0.5	2.5	4.2	0.0	0.0	0.0	-0.7	2.1	1.3	-0.8	0.4	0.3	4.1	0.0	0.4
Nov	2.9	2.1	0.6	2.7	4.4	0.0	0.0	0.0	-0.7	2.2	1.7	-0.9	0.6	0.4	4.3	0.0	0.4
Dec	2.6	1.9	0.4	2.4	4.0	0.0	0.0	0.0	-0.7	2.0	0.9	-0.7	0.1	0.3	3.9	0.0	0.3
Avg	1.6	1.1	0.0	1.6	2.5	0.0	0.0	0.0	-0.4	1.3	-1.8	-0.1	-1.4	0.2	2.6	0.0	0.0
Alt 5	Change in Salinity																
Jan	1.6	1.1	-0.1	1.0	2.7	0.0	0.0	0.0	-0.5	1.3	-1.7	-0.2	-1.4	0.2	2.8	0.0	0.0
Feb	1.0	0.5	-0.4	0.6	1.8	0.0	0.0	0.0	-0.3	0.8	-3.4	0.1	-2.4	0.1	1.9	0.0	-0.3
Mar	0.5	0.2	-0.5	0.4	1.0	0.0	0.0	0.0	-0.2	0.5	-4.7	0.5	-3.1	0.1	1.3	0.0	-0.4
Apr	0.6	0.2	-0.5	0.4	1.1	0.0	0.0	0.0	-0.2	0.5	-4.6	0.4	-3.0	0.1	1.3	0.0	-0.4
May	-0.1	-0.4	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.5	0.8	-4.1	0.0	0.4	0.0	-0.7
Jun	0.2	-0.1	-0.7	0.2	0.6	0.0	0.0	0.0	-0.1	0.3	-5.5	0.6	-3.6	0.1	0.8	0.0	-0.5
Jul	1.8	1.2	0.0	1.0	2.9	0.0	0.0	0.0	-0.5	1.4	-1.3	-0.3	-1.2	0.2	2.9	0.0	0.0
Aug	2.7	2.0	0.5	1.5	4.3	0.0	0.0	0.0	-0.7	2.1	1.2	-0.8	0.3	0.3	4.2	0.0	0.4
Sep	2.7	2.0	0.5	1.5	4.3	0.0	0.0	0.0	-0.7	2.1	1.2	-0.8	0.3	0.3	4.2	0.0	0.4
Oct	2.7	2.0	0.5	1.5	4.3	0.0	0.0	0.0	-0.7	2.1	1.3	-0.8	0.3	0.3	4.3	0.0	0.4
Nov	2.9	2.1	0.6	1.6	4.6	0.0	0.0	0.0	-0.8	2.2	1.7	-0.9	0.6	0.4	4.5	0.0	0.4
Dec	2.6	1.9	0.4	1.5	4.1	0.0	0.0	0.0	-0.7	2.0	0.9	-0.7	0.1	0.3	4.1	0.0	0.3
Avg	1.6	1.1	-0.1	0.9	2.6	0.0	0.0	0.0	-0.4	1.3	-1.8	-0.2	-1.4	0.2	2.7	0.0	0.0
Alt 6	Change in Salinity																
Jan	-1.0	-1.7	-2.2	-0.7	-0.1	0.0	0.0	0.0	0.2	-0.1	-2.8	-2.7	-2.9	-3.2	-0.3	-4.4	-2.2
Feb	-1.6	-2.7	-3.3	-0.5	-0.1	0.0	0.0	0.0	0.1	0.0	-4.4	-4.2	-4.5	-4.8	-0.4	-6.7	-3.5
Mar	0.1	0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Apr	0.1	0.1	0.0	-0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Jun	0.0	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Jul	-0.9	-1.5	-1.9	-0.7	-0.1	0.0	0.0	0.0	0.2	-0.1	-2.5	-2.4	-2.5	-2.9	-0.3	-4.0	-1.9
Aug	-0.1	-0.2	-0.3	-1.0	-0.1	0.0	0.0	0.0	0.3	-0.1	-0.2	-0.2	-0.2	-0.5	-0.2	-0.7	0.0
Sep	0.0	-0.1	-0.3	-1.0	-0.1	0.0	0.0	0.0	0.3	-0.1	-0.1	-0.2	-0.2	-0.5	-0.2	-0.7	0.0
Oct	0.0	-0.1	-0.2	-1.0	-0.1	0.0	0.0	0.0	0.3	-0.1	0.0	-0.1	-0.1	-0.4	-0.2	-0.5	0.1
Nov	0.1	0.1	0.0	-1.1	-0.1	0.0	0.0	0.0	0.4	-0.1	0.3	0.3	0.3	0.0	-0.2	0.0	0.4
Dec	-0.2	-0.3	-0.5	-1.0	-0.1	0.0	0.0	0.0	0.3	-0.1	-0.4	-0.4	-0.5	-0.8	-0.2	-1.1	-0.2
Avg	-0.3	-0.5	-0.7	-0.6	-0.1	0.0	0.0	0.0	0.2	-0.1	-0.8	-0.8	-0.8	-1.1	-0.2	-1.5	-0.6
Alt 8	Change in Salinity																
Jan	0.5	0.4	0.2	-0.1	0.9	0.0	0.0	0.0	0.3	0.3	-2.3	-0.2	-1.5	0.1	0.7	0.0	-0.1
Feb	0.4	0.3	0.1	0.0	0.6	0.0	0.0	0.0	0.2	0.2	-3.8	0.4	-2.0	0.1	0.6	0.0	-0.3
Mar	0.4	0.															

2015	C3	C4	C5	C6	C7	C8	C9	Carencro Bayou	Creole Bayou	D3 Central	D3 North	D3 South	E2 Northwest	E2 Southeast	E3 North	E3 South	E4 North
Alt 1 Salinity																	
Jan	6.7	6.8	7.1	7.2	7.6	8.0	7.8	0.1	0.0	15.8	12.1	18.8	11.1	17.3	12.9	13.2	17.5
Feb	6.6	6.8	7.0	7.0	7.4	7.8	7.5	0.0	0.0	13.0	10.2	15.9	7.8	15.0	11.1	11.3	15.1
Mar	6.6	6.7	6.8	6.9	7.2	7.5	7.2	0.0	0.0	10.7	8.7	13.5	5.2	13.1	9.6	9.8	13.3
Apr	6.6	6.7	6.8	6.9	7.2	7.6	7.2	0.0	0.0	10.9	8.8	13.7	5.3	13.2	9.7	9.9	13.4
May	6.5	6.7	6.7	6.7	7.0	7.3	6.9	0.0	0.0	7.7	6.7	10.4	1.6	10.6	7.6	7.8	10.7
Jun	6.5	6.7	6.8	6.8	7.1	7.4	7.1	0.0	0.0	9.3	7.8	12.1	3.5	11.9	8.7	8.9	12.1
Jul	6.7	6.8	7.1	7.2	7.6	8.1	7.8	0.1	0.0	16.4	12.5	19.4	11.7	17.8	13.3	13.6	18.0
Aug	6.8	6.9	7.4	7.4	7.9	8.5	8.3	0.1	0.0	20.4	15.2	23.7	16.5	21.1	16.0	16.3	21.4
Sep	6.8	6.9	7.4	7.4	7.9	8.5	8.3	0.1	0.0	20.5	15.2	23.7	16.6	21.2	16.0	16.4	21.4
Oct	6.8	6.9	7.4	7.4	7.9	8.5	8.3	0.1	0.0	20.6	15.3	23.9	16.8	21.3	16.1	16.5	21.5
Nov	6.8	6.9	7.4	7.5	7.9	8.5	8.4	0.1	0.0	21.3	15.8	24.6	17.5	21.9	16.6	16.9	22.1
Dec	6.8	6.9	7.3	7.4	7.8	8.4	8.2	0.1	0.0	19.9	14.9	23.2	16.0	20.7	15.7	16.0	21.0
Avg	6.70	6.81	7.10	7.14	7.55	8.00	7.75	0.06	0.02	15.54	11.94	18.58	10.80	17.10	12.78	13.05	17.28
Alt 2 Change in Salinity																	
Jan	-5.1	-0.2	-5.3	-5.3	-1.0	-1.3	-4.1	0.0	0.0	-1.2	-1.3	-0.2	-0.2	0.4	0.2	0.2	0.4
Feb	-5.5	-0.5	-5.8	-5.7	-1.7	-2.2	-5.1	0.0	0.0	-2.4	-2.6	-0.3	-0.4	0.3	0.1	0.1	0.2
Mar	-5.9	-0.8	-6.1	-6.1	-2.2	-3.0	-5.8	0.0	0.0	-3.3	-3.6	-0.4	-0.5	0.2	0.1	0.1	0.1
Apr	-5.9	-0.7	-6.1	-6.1	-2.2	-2.9	-5.8	0.0	0.0	-3.3	-3.6	-0.4	-0.5	0.2	0.1	0.1	0.1
May	-6.4	-1.1	-6.6	-6.6	-3.0	-4.0	-6.8	0.0	0.0	-4.6	-5.0	-0.5	-0.8	0.0	0.0	0.0	0.0
Jun	-6.2	-0.9	-6.4	-6.4	-2.6	-3.5	-6.3	0.0	0.0	-3.9	-4.3	-0.4	-0.6	0.1	0.0	0.0	0.1
Jul	-5.0	-0.1	-5.2	-5.2	-0.9	-1.1	-3.9	0.0	0.0	-0.9	-1.1	-0.2	-0.1	0.4	0.2	0.2	0.4
Aug	-4.3	0.4	-4.6	-4.5	0.1	0.2	-2.6	0.0	0.0	0.8	0.8	0.0	0.2	0.6	0.4	0.3	0.6
Sep	-4.3	0.4	-4.6	-4.5	0.2	0.2	-2.6	0.0	0.0	0.8	0.8	0.0	0.2	0.6	0.4	0.3	0.6
Oct	-4.3	0.4	-4.6	-4.4	0.2	0.3	-2.5	0.0	0.0	0.9	0.9	0.0	0.2	0.6	0.4	0.3	0.6
Nov	-4.1	0.5	-4.4	-4.3	0.4	0.5	-2.3	0.0	0.0	1.2	1.2	0.0	0.2	0.6	0.4	0.3	0.6
Dec	-4.4	0.3	-4.7	-4.6	0.0	0.1	-2.7	0.0	0.0	0.6	0.6	0.0	0.1	0.6	0.3	0.3	0.6
Avg	-5.1	-0.2	-5.4	-5.3	-1.1	-1.4	-4.2	0.0	0.0	-1.3	-1.4	-0.2	-0.2	0.4	0.2	0.2	0.4
Alt 3 Change in Salinity																	
Jan	-5.2	-2.4	-5.4	-5.3	-2.6	-2.7	-4.2	0.0	0.0	-2.4	-2.0	-4.2	-0.6	-3.9	-2.9	-3.0	-4.0
Feb	-5.6	-3.9	-5.9	-5.8	-4.2	-4.3	-5.1	0.0	0.0	-4.3	-3.7	-6.4	-0.9	-6.3	-4.5	-4.7	-6.3
Mar	-6.0	-0.8	-6.2	-6.1	-2.2	-3.0	-5.8	0.0	0.0	-3.3	-3.6	-0.4	-0.5	0.2	0.1	0.1	0.1
Apr	-5.9	-0.7	-6.2	-6.1	-2.2	-2.9	-5.8	0.0	0.0	-3.3	-3.6	-0.4	-0.5	0.2	0.1	0.1	0.1
May	-6.4	-1.1	-6.6	-6.6	-3.0	-4.0	-6.8	0.0	0.0	-4.6	-5.0	-0.5	-0.8	0.0	0.0	0.0	0.0
Jun	-6.2	-0.9	-6.4	-6.4	-2.6	-3.5	-6.3	0.0	0.0	-3.9	-4.3	-0.4	-0.6	0.1	0.0	0.0	0.1
Jul	-5.1	-2.1	-5.3	-5.3	-2.3	-2.3	-4.0	0.0	0.0	-2.1	-1.7	-3.8	-0.5	-3.5	-2.5	-2.7	-3.5
Aug	-4.4	0.0	-4.7	-4.6	-0.1	0.0	-2.6	0.0	0.0	0.6	0.6	-0.7	0.1	-0.1	-0.1	-0.2	-0.1
Sep	-4.4	0.0	-4.7	-4.6	-0.1	0.0	-2.6	0.0	0.0	0.6	0.7	-0.6	0.1	0.0	-0.1	-0.2	-0.1
Oct	-4.4	0.1	-4.7	-4.6	0.0	0.1	-2.6	0.0	0.0	0.7	0.7	-0.5	0.1	0.1	0.0	-0.1	0.1
Nov	-4.3	0.5	-4.6	-4.4	0.4	0.5	-2.4	0.0	0.0	1.2	1.1	0.0	0.2	0.6	0.4	0.3	0.6
Dec	-4.5	-0.2	-4.8	-4.7	-0.4	-0.3	-2.8	0.0	0.0	0.3	0.4	-1.0	0.0	-0.5	-0.4	-0.5	-0.5
Avg	-5.2	-1.0	-5.5	-5.4	-1.6	-1.9	-4.3	0.0	0.0	-1.7	-1.7	-1.6	-0.3	-1.1	-0.8	-0.9	-1.1
Alt 4 Change in Salinity																	
Jan	-3.0	-0.1	-3.1	-3.0	-0.7	-0.9	-2.4	0.0	0.0	-0.7	0.1	-0.2	1.8	-0.5	-0.3	-0.2	-0.3
Feb	-4.2	-0.4	-4.3	-4.2	-1.5	-1.9	-4.0	0.0	0.0	-2.0	-1.7	-0.3	0.9	-0.4	-0.2	-0.1	-0.2
Mar	-5.1	-0.7	-5.3	-5.3	-2.1	-2.8	-5.2	0.0	0.0	-3.1	-3.1	-0.4	0.3	-0.3	-0.2	-0.1	-0.2
Apr	-5.1	-0.7	-5.2	-5.2	-2.1	-2.7	-5.1	0.0	0.0	-3.0	-3.0	-0.3	0.3	-0.3	-0.2	-0.1	-0.2
May	-6.4	-1.1	-6.6	-6.6	-3.0	-4.0	-6.8	0.0	0.0	-4.5	-5.0	-0.5	-0.6	-0.2	-0.1	-0.1	-0.1
Jun	-5.7	-0.9	-5.9	-5.9	-2.5	-3.3	-6.0	0.0	0.0	-3.8	-3.9	-0.4	-0.2	-0.2	-0.1	-0.1	-0.2
Jul	-2.8	0.0	-2.8	-2.7	-0.5	-0.6	-2.1	0.0	0.0	-0.4	0.4	-0.2	1.9	-0.5	-0.3	-0.2	-0.3
Aug	-1.0	0.5	-1.0	-0.9	0.6	0.9	0.1	0.0	0.0	1.5	3.0	0.0	3.1	-0.6	-0.4	-0.3	-0.4
Sep	-1.0	0.5	-1.0	-0.8	0.6	0.9	0.2	0.0	0.0	1.6	3.0	0.0	3.2	-0.6	-0.4	-0.3	-0.4
Oct	-0.9	0.5	-0.9	-0.8	0.7	1.0	0.2	0.0	0.0	1.6	3.1	0.0	3.2	-0.6	-0.4	-0.3	-0.4
Nov	-0.6	0.6	-0.6	-0.5	0.9	1.3	0.6	0.0	0.0	1.9	3.5	0.0	3.4	-0.7	-0.4	-0.3	-0.4
Dec	-1.2	0.5	-1.2	-1.1	0.5	0.7	-0.1	0.0	0.0	1.3	2.7	0.0	3.0	-0.6	-0.4	-0.2	-0.4
Avg	-3.1	-0.1	-3.2	-3.1	-0.8	-1.0	-2.5	0.0	0.0	-0.8	-0.1	-0.2	1.7	-0.4	-0.3	-0.2	-0.3
Alt 5 Change in Salinity																	
Jan	-3.0	-0.1	-3.1	-3.0	-0.7	-0.9	-2.3	0.0	0.0	-0.8	0.0	-0.2	1.7	-0.5	-0.3	-0.2	-0.3
Feb	-4.2	-0.4	-4.3	-4.2	-1.5	-2.0	-3.9	0.0	0.0	-2.2	-1.8	-0.3	0.9	-0.4	-0.2	-0.2	-0.3
Mar	-5.2	-0.7	-5.3	-5.3	-2.1	-2.8	-5.1	0.0	0.0	-3.1	-3.1	-0.4	0.2	-0.3	-0.2	-0.1	-0.2
Apr	-5.1	-0.7	-5.2	-5.2	-2.1	-2.7	-5.0	0.0	0.0	-3.0	-3.0	-0.3	0.3	-0.3	-0.2	-0.1	-0.2
May	-6.4	-1.1	-6.6	-6.6	-3.0	-4.0	-6.8	0.0	0.0	-4.5	-5.0	-0.5	-0.6	-0.2	-0.1	-0.1	-0.1
Jun	-5.7	-0.9	-5.9	-5.9	-2.5	-3.3	-5.9	0.0	0.0	-3.8	-4.0	-0.4	-0.2	-0.2	-0.1	-0.1	-0.2
Jul	-2.8	0.0	-2.8	-2.7	-0.5	-0.7	-1.9	0.0	0.0	-0.5	0.4	-0.2	1.9	-0.5	-0.3	-0.2	-0.3
Aug	-1.0	0.5	-1.0	-0.8	0.6	0.9	0.4	0.0	0.0	1.5	2.9	0.0	3.1	-0.6	-0.4	-0.3	-0.4
Sep	-1.0	0.5	-1.0	-0.8	0.6	0.9	0.4	0.0	0.0	1.5	3.0	0.0	3.1	-0.6	-0.4	-0.3	-0.4
Oct	-1.0	0.5	-0.9	-0.8	0.7	1.0	0.5	0.0	0.0	1.6	3.1	0.0	3.2	-0.6	-0.4	-0.3	-0.4
Nov	-0.7	0.6	-0.6	-0.4	0.9	1.2	0.9	0.0	0.0	1.9	3.5	0.0	3.4	-0.7	-0.4	-0.3	-0.4
Dec	-1.2	0.5	-1.2	-1.1	0.5	0.7	0.1	0.0	0.0	1.3	2.6	0.0	3.0	-0.6	-0.4	-0.2	-0.4
Avg	-3.1	-0.1	-3.2	-3.1	-0.8	-1.0	-2.4	0.0	0.0	-0.8	-0.1	-0.2	1.7	-0.5	-0.3	-0.2	-0.3
Alt 6 Change in Salinity																	
Jan	-2.4	-2.4	-2.5	-2.5	-2.6	-2.7	-2.6	0.0	0.0	-3.1	-2.6	-4.2	-0.7	-4.2	-3.1	-3.1	-4.3
Feb	-3.9	-3.9	-4.0	-4.0	-4.2	-4.3	-4.1	0.0	0.0	-4.7	-4.0	-6.4	-1.0	-6.4	-4.6	-4.8	-6.5
Mar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.2	-0.6	-0.4	-0.3	-0.6
Apr	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.2	-0.6	-0.4	-0.3	-0.6
May	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.3	-0.9	-0.5	-0.4	-0.8
Jun	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.2	-0.7	-0.5	-0.3	-0.7
Jul	-2.2	-2.1	-2.2	-2.2	-2.3	-2.4	-2.3	0.0	0.0	-2.8	-2.3	-3.8	-0.6	-3.8	-2.7	-2.8	-3.8
Aug	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.5	-0.3	-0.7	-0.1	-0.6	-0.4	-0.5	-0.6
Sep	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	0.0	-0.4	-0.3	-0.6	-0.1	-0.5	-0.4	-0.4	-0.5
Oct	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	-0.4	-0.2	-0.5	-0.1	-0.4	-0.3	-0.3	-0.4
Nov	0.3	0.5	0.3	0.3	0.4	0.4	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1
Dec	-0.3	-0.2	-0.4	-0.4	-0.3	-0.4	-0.4	0.0	0.0	-0.7	-0.5	-1.0	-0.2	-0.9	-0.7	-0.7	-1.0
Avg	-0.7	-0.6	-0.7	-0.7	-0.7	-0.8	-0.7	0.0	0.0	-1.0	-0.8	-1.4	-0.1	-1.6	-1.2	-1.2	-1.6
Alt 8 Change in Salinity																	
Jan	-4.5	-0.1	-4.7	-4.6	-0.8	-1.2	-3.6	0.0	0.0	-1.0	-1.3	-0.2	0.0	0.4	0.2	0.2	0.4
Feb	-5.2	-0.4	-5.4	-5.3	-1.5	-2.0	-4.7	0.0	0.0	-2.2	-2.5	-0.3	-0.3	0.2	0.1	0.1	0.2
Mar	-5.7	-0.6	-5.9	-5.9	-2.0	-2.7</											

2015	E4 South	F2	F3 North	F3 South	G1 North	G1 South	G2	G3 East	G3 West	G5 North	G5 South	G6 Central	G6 Southeast	G6 West	G7 Catfish Lake	G7 Northwest	G7 Southeast
Alt 1 Salinity																	
Jan	18.3	16.2	17.0	18.2	3.5	3.9	3.9	8.0	4.7	4.6	6.1	10.7	14.3	8.9	16.3	16.1	18.2
Feb	15.7	14.1	14.8	15.6	3.3	3.6	3.5	6.9	4.1	4.2	5.6	9.5	12.4	7.8	14.1	14.0	15.5
Mar	13.6	12.4	13.0	13.5	3.2	3.4	3.3	6.1	3.6	3.9	5.2	8.5	10.9	6.9	12.3	12.3	13.4
Apr	13.7	12.6	13.1	13.7	3.2	3.4	3.3	6.2	3.6	3.9	5.2	8.6	11.0	7.0	12.4	12.5	13.5
May	10.8	10.2	10.5	10.7	3.1	3.1	2.9	5.0	3.0	3.5	4.6	7.2	8.9	5.7	9.8	10.1	10.5
Jun	12.3	11.4	11.8	12.2	3.1	3.3	3.1	5.6	3.3	3.7	4.9	7.9	10.0	6.3	11.1	11.3	12.0
Jul	18.8	16.6	17.5	18.8	3.5	4.0	3.9	8.2	4.8	4.7	6.2	10.9	14.7	9.1	16.8	16.6	18.7
Aug	22.6	19.6	20.7	22.5	3.7	4.4	4.4	9.7	5.7	5.2	7.0	12.6	17.4	10.7	20.1	19.7	22.6
Sep	22.7	19.6	20.7	22.6	3.7	4.4	4.4	9.7	5.7	5.2	7.0	12.6	17.4	10.8	20.1	19.7	22.6
Oct	22.8	19.8	20.9	22.7	3.7	4.4	4.5	9.8	5.7	5.3	7.1	12.7	17.5	10.8	20.2	19.8	22.8
Nov	23.4	20.3	21.4	23.4	3.7	4.5	4.5	10.0	5.9	5.4	7.2	13.0	18.0	11.1	20.8	20.3	23.4
Dec	22.2	19.3	20.3	22.1	3.7	4.3	4.4	9.5	5.6	5.2	6.9	12.4	17.1	10.6	19.7	19.3	22.1
Avg	18.07	16.00	16.81	18.00	3.45	3.89	3.85	7.89	4.63	4.56	6.09	10.55	14.15	8.82	16.15	15.97	17.93
Alt 2 Change in Salinity																	
Jan	0.2	0.9	0.2	-0.1	-0.1	0.0	-0.4	-1.2	-0.5	0.2	1.1	-2.2	-3.0	-2.6	-2.6	-2.5	-1.6
Feb	0.1	0.5	-0.1	-0.3	-0.4	-0.4	-0.9	-2.3	-1.2	-0.3	0.5	-3.7	-4.6	-3.5	-4.1	-3.8	-2.4
Mar	0.1	0.2	-0.4	-0.5	-0.6	-0.7	-1.3	-3.2	-1.8	-0.6	0.0	-4.8	-5.8	-4.2	-5.2	-4.9	-3.1
Apr	0.1	0.2	-0.4	-0.4	-0.5	-0.7	-1.2	-3.2	-1.8	-0.6	0.0	-4.7	-5.7	-4.2	-5.1	-4.8	-3.1
May	0.0	-0.2	-0.8	-0.6	-0.8	-1.1	-1.8	-4.5	-2.6	-1.1	-0.6	-6.3	-7.4	-5.2	-6.7	-6.3	-4.0
Jun	0.0	0.0	-0.6	-0.5	-0.7	-0.9	-1.5	-3.8	-2.2	-0.9	-0.3	-5.5	-6.5	-4.7	-5.9	-5.5	-3.5
Jul	0.2	1.0	0.3	-0.1	0.0	0.1	-0.3	-0.9	-0.4	0.3	1.2	-1.9	-2.7	-2.4	-2.3	-2.3	-1.4
Aug	0.3	1.5	0.8	0.2	0.3	0.7	0.4	0.8	0.6	0.9	2.1	0.2	-0.5	-1.1	-0.3	-0.4	-0.2
Sep	0.3	1.6	0.8	0.2	0.3	0.7	0.4	0.8	0.7	0.9	2.1	0.2	-0.5	-1.1	-0.3	-0.4	-0.1
Oct	0.3	1.6	0.8	0.2	0.3	0.7	0.5	0.8	0.7	0.9	2.1	0.3	-0.4	-1.0	-0.2	-0.3	-0.1
Nov	0.4	1.7	0.9	0.2	0.4	0.8	0.6	1.1	0.9	1.0	2.3	0.6	0.0	-0.8	0.2	0.0	0.1
Dec	0.3	1.5	0.7	0.1	0.3	0.6	0.3	0.6	0.5	0.8	2.0	-0.1	-0.8	-1.2	-0.5	-0.6	-0.3
Avg	0.2	0.9	0.2	-0.2	-0.1	0.0	-0.4	-1.3	-0.6	0.1	1.0	-2.3	-3.2	-2.7	-2.8	-2.6	-1.6
Alt 3 Change in Salinity																	
Jan	-4.2	-3.2	-3.8	-4.2	-1.0	-0.8	-0.9	-1.4	-0.7	-0.8	-0.5	-2.6	-3.7	-2.8	-3.9	-4.1	-4.2
Feb	-6.5	-5.6	-6.1	-6.5	-1.7	-1.6	-1.6	-2.6	-1.5	-1.7	-1.9	-4.2	-5.5	-3.8	-6.0	-6.2	-6.4
Mar	0.1	0.2	-0.4	-0.5	-0.6	-0.7	-1.3	-3.3	-1.8	-0.6	0.0	-4.8	-5.8	-4.2	-5.2	-4.9	-3.1
Apr	0.1	0.2	-0.4	-0.4	-0.5	-0.7	-1.2	-3.2	-1.8	-0.6	0.0	-4.7	-5.7	-4.2	-5.1	-4.8	-3.1
May	0.0	-0.2	-0.8	-0.6	-0.8	-1.1	-1.8	-4.5	-2.6	-1.1	-0.6	-6.3	-7.4	-5.2	-6.7	-6.3	-4.0
Jun	0.0	0.0	-0.6	-0.5	-0.7	-0.9	-1.5	-3.8	-2.2	-0.9	-0.3	-5.5	-6.5	-4.7	-5.9	-5.5	-3.5
Jul	-3.7	-2.7	-3.3	-3.8	-0.9	-0.6	-0.7	-1.1	-0.6	-0.6	-0.2	-2.3	-3.3	-2.6	-3.5	-3.6	-3.8
Aug	-0.4	0.9	0.1	-0.5	0.2	0.5	0.3	0.7	0.6	0.7	1.8	0.1	-0.7	-1.2	-0.5	-0.6	-0.6
Sep	-0.3	0.9	0.2	-0.5	0.2	0.5	0.3	0.7	0.6	0.7	1.8	0.1	-0.6	-1.1	-0.5	-0.6	-0.5
Oct	-0.2	1.1	0.3	-0.3	0.2	0.6	0.4	0.8	0.6	0.8	1.9	0.2	-0.5	-1.1	-0.4	-0.5	-0.4
Nov	0.4	1.7	0.9	0.2	0.4	0.8	0.5	1.1	0.8	1.0	2.3	0.6	-0.1	-0.8	0.1	0.0	0.1
Dec	-0.8	0.5	-0.3	-0.9	0.1	0.4	0.2	0.5	0.4	0.6	1.6	-0.2	-1.0	-1.3	-0.9	-1.0	-1.0
Avg	-1.3	-0.5	-1.2	-1.5	-0.4	-0.3	-0.6	-1.3	-0.7	-0.2	0.5	-2.5	-3.4	-2.8	-3.2	-3.2	-2.5
Alt 4 Change in Salinity																	
Jan	-0.2	-1.2	-2.4	-1.8	-1.1	-1.6	-1.8	-6.4	-3.1	-2.1	-2.6	-9.0	-12.4	-7.2	-12.8	-12.3	-10.1
Feb	-0.1	-1.0	-2.0	-1.5	-1.1	-1.5	-1.9	-5.8	-2.9	-1.9	-2.0	-8.1	-10.8	-6.6	-11.0	-10.6	-8.5
Mar	-0.1	-0.8	-1.6	-1.2	-1.1	-1.4	-1.9	-5.3	-2.8	-1.7	-1.6	-7.5	-9.6	-6.0	-9.5	-9.2	-7.1
Apr	-0.1	-0.8	-1.6	-1.2	-1.1	-1.4	-1.9	-5.3	-2.8	-1.7	-1.7	-7.5	-9.7	-6.1	-9.6	-9.3	-7.2
May	-0.1	-0.6	-1.2	-0.9	-1.0	-1.3	-2.0	-4.6	-2.7	-1.4	-1.1	-6.6	-7.9	-5.3	-7.6	-7.3	-5.3
Jun	-0.1	-0.7	-1.4	-1.1	-1.1	-1.3	-1.9	-5.0	-2.7	-1.6	-1.4	-7.1	-8.8	-5.7	-8.6	-8.3	-6.3
Jul	-0.2	-1.3	-2.5	-1.9	-1.1	-1.6	-1.8	-6.5	-3.1	-2.1	-2.7	-9.2	-12.7	-7.4	-13.1	-12.7	-10.5
Aug	-0.2	-1.6	-3.1	-2.3	-1.2	-1.7	-1.7	-7.4	-3.3	-2.5	-3.4	-10.4	-14.9	-8.3	-15.7	-15.3	-12.9
Sep	-0.2	-1.6	-3.1	-2.3	-1.2	-1.8	-1.7	-7.4	-3.3	-2.5	-3.4	-10.4	-14.9	-8.4	-15.8	-15.3	-13.0
Oct	-0.2	-1.6	-3.1	-2.4	-1.2	-1.8	-1.7	-7.5	-3.3	-2.5	-3.4	-10.4	-15.0	-8.4	-15.9	-15.4	-13.1
Nov	-0.3	-1.7	-3.2	-2.4	-1.2	-1.8	-1.7	-7.6	-3.3	-2.5	-3.6	-10.6	-15.4	-8.6	-16.3	-15.8	-13.5
Dec	-0.2	-1.6	-3.0	-2.3	-1.1	-1.7	-1.7	-7.3	-3.3	-2.4	-3.3	-10.2	-14.7	-8.2	-15.4	-15.0	-12.7
Avg	-0.2	-1.2	-2.3	-1.8	-1.1	-1.6	-1.8	-6.3	-3.0	-2.1	-2.5	-8.9	-12.2	-7.2	-12.6	-12.2	-10.0
Alt 5 Change in Salinity																	
Jan	-0.2	-1.2	-2.4	-1.8	-1.1	-1.6	-1.9	-6.4	-3.1	-2.1	-2.6	-9.0	-12.4	-7.3	-12.8	-12.4	-10.2
Feb	-0.2	-1.0	-2.0	-1.5	-1.1	-1.5	-1.9	-5.8	-2.9	-1.9	-2.1	-8.1	-10.8	-6.6	-11.0	-10.6	-8.5
Mar	-0.1	-0.8	-1.6	-1.2	-1.1	-1.4	-1.9	-5.3	-2.8	-1.7	-1.6	-7.5	-9.6	-6.0	-9.5	-9.2	-7.1
Apr	-0.1	-0.8	-1.6	-1.2	-1.1	-1.4	-1.9	-5.3	-2.8	-1.7	-1.7	-7.5	-9.7	-6.1	-9.6	-9.3	-7.2
May	-0.1	-0.6	-1.2	-0.9	-1.0	-1.3	-2.0	-4.6	-2.7	-1.4	-1.1	-6.6	-7.9	-5.3	-7.6	-7.3	-5.3
Jun	-0.1	-0.7	-1.4	-1.1	-1.1	-1.3	-1.9	-5.0	-2.7	-1.6	-1.4	-7.1	-8.8	-5.7	-8.6	-8.3	-6.3
Jul	-0.2	-1.3	-2.5	-1.9	-1.1	-1.6	-1.8	-6.5	-3.1	-2.2	-2.7	-9.2	-12.7	-7.4	-13.1	-12.7	-10.5
Aug	-0.2	-1.6	-3.1	-2.3	-1.2	-1.8	-1.7	-7.4	-3.3	-2.5	-3.4	-10.4	-14.9	-8.4	-15.7	-15.3	-12.9
Sep	-0.2	-1.6	-3.1	-2.3	-1.2	-1.8	-1.7	-7.4	-3.3	-2.5	-3.4	-10.4	-15.0	-8.4	-15.8	-15.3	-13.0
Oct	-0.2	-1.6	-3.1	-2.4	-1.2	-1.8	-1.7	-7.5	-3.3	-2.5	-3.4	-10.4	-15.0	-8.4	-15.9	-15.4	-13.1
Nov	-0.3	-1.7	-3.2	-2.4	-1.2	-1.8	-1.7	-7.6	-3.3	-2.5	-3.6	-10.6	-15.4	-8.6	-16.3	-15.8	-13.5
Dec	-0.2	-1.6	-3.0	-2.3	-1.2	-1.7	-1.7	-7.3	-3.3	-2.4	-3.3	-10.2	-14.7	-8.3	-15.4	-15.0	-12.7
Avg	-0.2	-1.2	-2.3	-1.8	-1.1	-1.6	-1.8	-6.3	-3.1	-2.1	-2.5	-8.9	-12.2	-7.2	-12.6	-12.2	-10.0
Alt 6 Change in Salinity																	
Jan	-4.3	-4.0	-4.2	-4.3	-1.2	-1.1	-1.0	-1.5	-1.1	-1.2	-1.6	-2.4	-3.3	-2.0	-3.8	-3.8	-4.2
Feb	-6.6	-6.2	-6.4	-6.5	-1.8	-1.8	-1.7	-2.7	-1.8	-2.0	-2.6	-4.1	-5.2	-3.3	-5.9	-6.0	-6.4
Mar	-0.3	-1.7	-1.2	-0.4	-0.5	-0.8	-1.3	-3.1	-2.0	-1.0	-0.9	-3.7	-3.6	-3.6	-2.7	-2.3	-1.1
Apr	-0.3	-1.6	-1.1	-0.4	-0.5	-0.8	-1.2	-3.0	-1.9	-0.9	-0.8	-3.6	-3.5	-3.5	-2.7	-2.2	-1.1
May	-0.4	-2.2	-1.5	-0.5	-0.7	-1.1	-1.7	-4.2	-2.6	-1.3	-1.2	-5.0	-4.8	-4.7	-3.6	-3.0	-1.5
Jun	-0.4	-1.9	-1.3	-0.5	-0.6	-0.9	-1.5	-3.6	-2.2	-1.1	-1.0	-4.3	-4.1	-4.1	-3.1	-2.6	-1.3
Jul	-3.9	-3.6	-3.7	-3.8	-1.0	-1.0	-0.9	-1.2	-1.0	-1.0	-1.4	-2.0	-2.9	-1.8	-3.3	-3.4	-3.7
Aug	-0.6	-0.5	-0.5	-0.6	-0.1	0.0	0.1	0.5	0.0	0.1	0.1	0.4	0.0	0.1	-0.3	-0.3	-0.5
Sep	-0.6	-0.4	-0.5	-0.6	-0.1	0.1	0.1	0.6	0.0	0.2	0.1	0.4	0.0	0.1	-0.2	-0.2	-0.5
Oct	-0.5	-0.3	-0.4	-0.4	0.0	0.1	0.1	0.6	0.0	0.2	0.2	0.5	0.1	0.2	-0.1	-0.1	-0.4
Nov	0.1	0.2	0.2	0.1	0.1	0.3	0.3	0.9	0.2	0.4	0.4	0.9	0.6	0.5	0.4	0.4	0.2
Dec	-1.0	-0.8	-0.9	-1.0	-0.2	-0.1	-0.1	0.3	-0.1	0.0	-0.1	0.1	-0.3	-0.2	-0.6	-0.6	-0.9
Avg	-1.6	-1.9	-1.8	-1.6	-0.6	-0.6	-0.7	-1.4	-1.0	-0.6	-0.7	-1.9	-2.2	-1.9	-2.2	-2.0	-1.8
Alt 8 Change in Salinity																	
Jan	0.2	0.9	0.3	-0.1	-0.1	0.0	0.0	-0.8	0.1	-0.1	-0.1	-2.3	-3.1	-2.1	-2.8	-2.3	-1.5
Feb	0.1	0.6	-0.1	-0.3	-0.2	-0.3	-0.2	-1.6	-0.2	-0.4							

2015	H1	H2 Central	H2 East	H2 West	H3	HNC at Bayou Grand Caillou	HNC at Falgout Canal	HNC below Lock Complex	HNC North	HNC South	Lake Pagie North	Lake Pagie South	Lake Palourde	Lost Lake East	Lost Lake West	Palmetto Bayou	Palm-Creole	
Alt 1	Salinity																	
Jan	0.2	0.2	0.4	0.3	0.2	8.4	3.7	8.9	0.8	12.0	0.2	8.6	0.0	8.9	7.0	0.0	0.0	
Feb	0.2	0.2	0.3	0.2	0.1	5.6	2.4	6.0	0.5	8.5	0.1	5.7	0.0	5.8	4.8	0.0	0.0	
Mar	0.1	0.1	0.2	0.1	0.1	3.4	1.4	3.7	0.3	5.8	0.1	3.3	0.0	3.4	3.0	0.0	0.0	
Apr	0.1	0.1	0.2	0.1	0.1	3.6	1.5	3.9	0.3	6.0	0.1	3.5	0.0	3.6	3.1	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	0.0	2.1	0.0	0.1	0.0	0.1	0.6	0.0	0.0	
Jun	0.1	0.1	0.1	0.1	0.0	2.0	0.8	2.2	0.2	4.1	0.0	1.8	0.0	1.9	1.9	0.0	0.0	
Jul	0.2	0.3	0.4	0.4	0.2	8.9	4.0	9.5	0.9	12.7	0.2	9.2	0.0	9.5	7.4	0.0	0.0	
Aug	0.3	0.4	0.6	0.5	0.3	12.9	5.9	13.7	1.3	17.7	0.2	13.5	0.0	13.9	10.6	0.0	0.0	
Sep	0.3	0.4	0.6	0.5	0.3	13.0	5.9	13.8	1.3	17.8	0.2	13.5	0.0	14.0	10.7	0.0	0.0	
Oct	0.3	0.4	0.6	0.6	0.3	13.1	6.0	13.9	1.3	17.9	0.2	13.7	0.0	14.1	10.8	0.0	0.0	
Nov	0.4	0.4	0.6	0.6	0.3	13.8	6.3	14.6	1.3	18.8	0.3	14.4	0.0	14.9	11.3	0.0	0.0	
Dec	0.3	0.4	0.6	0.5	0.2	12.5	5.6	13.2	1.2	17.1	0.2	13.0	0.0	13.4	10.2	0.0	0.0	
Avg	0.22	0.23	0.37	0.34	0.16	8.14	3.62	8.68	0.79	11.71	0.15	8.36	0.00	8.64	6.79	0.00	0.01	
Alt 2	Change in Salinity																	
Jan	0.0	0.0	0.6	-0.1	-0.1	1.3	1.8	1.2	0.0	0.7	-0.1	-3.2	0.0	-3.2	-2.0	0.0	0.0	
Feb	0.0	0.0	0.4	-0.1	-0.1	1.0	1.2	0.9	0.0	0.5	0.0	-2.1	0.0	-2.1	-1.5	0.0	0.0	
Mar	0.0	0.0	0.2	0.0	0.0	0.7	0.7	0.7	0.0	0.3	0.0	-1.3	0.0	-1.3	-1.1	0.0	0.0	
Apr	0.0	0.0	0.2	0.0	0.0	0.7	0.7	0.7	0.0	0.3	0.0	-1.3	0.0	-1.3	-1.1	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.1	0.0	-0.1	0.0	-0.1	-0.6	0.0	0.0	
Jun	0.0	0.0	0.1	0.0	0.0	0.6	0.4	0.5	0.0	0.2	0.0	-0.7	0.0	-0.7	-0.8	0.0	0.0	
Jul	0.0	0.0	0.6	-0.1	-0.1	1.4	2.0	1.3	0.0	0.7	-0.1	-3.4	0.0	-3.4	-2.1	0.0	0.0	
Aug	0.0	0.0	0.9	-0.2	-0.1	1.9	2.9	1.7	0.0	1.0	-0.1	-5.0	0.0	-5.0	-2.8	0.0	0.0	
Sep	0.0	0.0	0.9	-0.2	-0.1	1.9	2.9	1.7	0.0	1.0	-0.1	-5.0	0.0	-5.0	-2.8	0.0	0.0	
Oct	0.0	0.0	0.9	-0.2	-0.1	1.9	2.9	1.7	0.0	1.0	-0.1	-5.0	0.0	-5.1	-2.8	0.0	0.0	
Nov	0.0	0.0	1.0	-0.2	-0.1	2.0	3.1	1.8	0.0	1.1	-0.1	-5.3	0.0	-5.3	-2.9	0.0	0.0	
Dec	0.0	0.0	0.9	-0.2	-0.1	1.8	2.8	1.7	0.0	1.0	-0.1	-4.8	0.0	-4.8	-2.7	0.0	0.0	
Avg	0.0	0.0	0.6	-0.1	-0.1	1.3	1.8	1.2	0.0	0.6	-0.1	-3.1	0.0	-3.1	-1.9	0.0	0.0	
Alt 3	Change in Salinity																	
Jan	0.0	0.0	0.5	-0.1	-0.1	1.0	1.8	0.8	-0.1	-0.2	-0.1	-3.2	0.0	-3.2	-2.0	0.0	0.0	
Feb	0.0	0.0	0.3	-0.1	-0.1	0.5	1.1	0.3	-0.1	-0.9	0.0	-2.1	0.0	-2.2	-1.5	0.0	0.0	
Mar	0.0	0.0	0.2	0.0	0.0	0.7	0.7	0.7	0.0	0.3	0.0	-1.3	0.0	-1.3	-1.1	0.0	0.0	
Apr	0.0	0.0	0.2	0.0	0.0	0.7	0.7	0.7	0.0	0.3	0.0	-1.3	0.0	-1.4	-1.1	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.1	0.0	-0.1	0.0	-0.1	-0.6	0.0	0.0	
Jun	0.0	0.0	0.1	0.0	0.0	0.6	0.4	0.5	0.0	0.2	0.0	-0.7	0.0	-0.8	-0.8	0.0	0.0	
Jul	0.0	0.0	0.6	-0.1	-0.1	1.1	1.9	0.9	-0.1	-0.1	-0.1	-3.4	0.0	-3.5	-2.1	0.0	0.0	
Aug	0.0	0.0	0.8	-0.2	-0.1	1.8	2.8	1.6	-0.2	0.8	-0.1	-5.0	0.0	-5.0	-2.8	0.0	0.0	
Sep	0.0	0.0	0.9	-0.2	-0.1	1.8	2.8	1.6	-0.2	0.8	-0.1	-5.0	0.0	-5.0	-2.8	0.0	0.0	
Oct	0.0	0.0	0.9	-0.2	-0.1	1.8	2.8	1.6	-0.2	0.9	-0.1	-5.1	0.0	-5.1	-2.8	0.0	0.0	
Nov	-0.1	0.0	0.9	-0.2	-0.1	1.9	3.0	1.8	-0.2	1.0	-0.1	-5.3	0.0	-5.4	-2.9	0.0	0.0	
Dec	0.0	0.0	0.8	-0.2	-0.1	1.7	2.7	1.5	-0.1	0.7	-0.1	-4.8	0.0	-4.8	-2.7	0.0	0.0	
Avg	0.0	0.0	0.5	-0.1	-0.1	1.1	1.7	1.0	-0.1	0.3	-0.1	-3.1	0.0	-3.2	-1.9	0.0	0.0	
Alt 4	Change in Salinity																	
Jan	0.3	0.5	0.2	0.5	0.2	2.9	3.9	2.8	2.1	1.8	-0.1	-2.7	0.0	-2.7	-1.6	0.0	0.0	
Feb	0.2	0.3	0.1	0.3	0.1	2.1	2.6	1.9	1.4	1.2	0.0	-1.8	0.0	-1.8	-1.2	0.0	0.0	
Mar	0.1	0.2	0.1	0.2	0.1	1.4	1.5	1.3	0.8	0.7	0.0	-1.1	0.0	-1.1	-0.9	0.0	0.0	
Apr	0.1	0.2	0.1	0.2	0.1	1.4	1.6	1.3	0.8	0.8	0.0	-1.1	0.0	-1.2	-1.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.1	0.0	-0.1	0.0	-0.1	-0.5	0.0	0.0	
Jun	0.1	0.1	0.0	0.1	0.0	0.9	0.8	0.9	0.4	0.5	0.0	-0.6	0.0	-0.6	-0.7	0.0	0.0	
Jul	0.3	0.5	0.2	0.5	0.2	3.1	4.2	3.0	2.2	1.9	-0.1	-2.9	0.0	-2.9	-1.7	0.0	0.0	
Aug	0.5	0.8	0.3	0.7	0.3	4.4	6.2	4.2	3.3	2.7	-0.1	-4.2	0.0	-4.2	-2.2	0.0	0.0	
Sep	0.5	0.8	0.3	0.8	0.3	4.4	6.2	4.2	3.3	2.7	-0.1	-4.2	0.0	-4.2	-2.2	0.0	0.0	
Oct	0.5	0.8	0.3	0.8	0.3	4.5	6.3	4.2	3.3	2.7	-0.1	-4.2	0.0	-4.3	-2.3	0.0	0.0	
Nov	0.5	0.8	0.4	0.8	0.3	4.7	6.6	4.4	3.5	2.9	-0.1	-4.5	0.0	-4.5	-2.4	0.0	0.0	
Dec	0.4	0.7	0.3	0.7	0.3	4.3	5.9	4.0	3.2	2.6	-0.1	-4.0	0.0	-4.1	-2.2	0.0	0.0	
Avg	0.3	0.5	0.2	0.5	0.2	2.9	3.8	2.7	2.0	1.7	-0.1	-2.6	0.0	-2.6	-1.6	0.0	0.0	
Alt 5	Change in Salinity																	
Jan	0.3	0.5	0.2	0.4	0.2	3.1	4.5	2.9	2.2	1.8	-0.1	-2.7	0.0	-2.8	-1.6	0.0	0.0	
Feb	0.2	0.3	0.1	0.3	0.1	2.1	2.9	2.0	1.4	1.2	0.0	-1.8	0.0	-1.8	-1.3	0.0	0.0	
Mar	0.1	0.2	0.1	0.2	0.1	1.4	1.7	1.3	0.8	0.8	0.0	-1.1	0.0	-1.1	-0.9	0.0	0.0	
Apr	0.1	0.2	0.1	0.2	0.1	1.5	1.8	1.4	0.8	0.8	0.0	-1.1	0.0	-1.2	-1.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.1	0.0	-0.1	0.0	-0.1	-0.5	0.0	0.0	
Jun	0.0	0.1	0.0	0.1	0.0	0.9	0.9	0.9	0.4	0.5	0.0	-0.6	0.0	-0.7	-0.7	0.0	0.0	
Jul	0.3	0.5	0.2	0.5	0.2	3.2	4.8	3.1	2.3	1.9	-0.1	-2.9	0.0	-2.9	-1.7	0.0	0.0	
Aug	0.4	0.7	0.3	0.7	0.2	4.6	7.0	4.4	3.4	2.8	-0.1	-4.2	0.0	-4.3	-2.3	0.0	0.0	
Sep	0.4	0.7	0.3	0.7	0.2	4.6	7.0	4.4	3.4	2.8	-0.1	-4.2	0.0	-4.3	-2.3	0.0	0.0	
Oct	0.4	0.7	0.3	0.7	0.2	4.7	7.1	4.4	3.4	2.9	-0.1	-4.3	0.0	-4.3	-2.3	0.0	0.0	
Nov	0.5	0.8	0.3	0.7	0.3	4.9	7.5	4.6	3.6	3.0	-0.1	-4.5	0.0	-4.6	-2.4	0.0	0.0	
Dec	0.4	0.7	0.3	0.7	0.2	4.4	6.7	4.2	3.3	2.7	-0.1	-4.1	0.0	-4.1	-2.2	0.0	0.0	
Avg	0.3	0.4	0.2	0.4	0.1	3.0	4.3	2.8	2.1	1.8	-0.1	-2.6	0.0	-2.7	-1.6	0.0	0.0	
Alt 6	Change in Salinity																	
Jan	0.0	0.0	0.1	-0.1	-0.1	-0.3	-0.2	-0.3	-0.2	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Feb	0.0	0.0	0.1	-0.1	0.0	-0.3	-0.1	-0.4	-0.1	-1.3	0.0	-0.1	0.0	-0.1	-0.2	0.0	0.0	
Mar	0.0	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
Apr	0.0	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Jul	0.0	0.0	0.2	-0.1	-0.1	-0.3	-0.2	-0.3	-0.2	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Aug	0.0	0.0	0.2	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
Sep	0.0	0.0	0.2	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
Oct	0.0	0.0	0.2	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
Nov	0.0	0.0	0.3	-0.1	-0.1	-0.2	-0.3	-0.2	-0.3	-0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	
Dec	0.0	0.0	0.2	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
Avg	0.0	0.0	0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
Alt 8	Change in Salinity																	
Jan	0.0	0.0	0.5	-0.1	-0.1	0.8	1.2	0.7	0.3	0.4	0.1	0.2	0.0	0.2	0.3	0.0	0.0	
Feb	0.0	0.0	0.3	0.0	0.0	0.6	0.8	0.6	0.2	0.3	0.0	0.1	0.0	0.1	0.2	0.0	0.0	
Mar	0.0	0.0	0.2	0.0														

2015	A6,A7, Lpague	B6,B7,C 11-14	C2-C7	E2-E4	G1&G5	G2,G3, G6	A3	B2	D3	F3	G7	H2	Lost Lake	B6,B7	C11- C14
Alt 1	Salinity														
Jan	3.0	12.1	6.8	15.0	4.5	8.4	0.1	0.8	15.6	17.6	16.9	0.3	7.9	10.9	13.4
Feb	2.0	9.3	6.8	12.7	4.2	7.4	0.0	0.5	13.0	15.2	14.5	0.2	5.3	8.4	10.3
Mar	1.2	7.1	6.7	10.8	3.9	6.6	0.0	0.3	11.0	13.2	12.7	0.1	3.2	6.4	7.8
Apr	1.2	7.2	6.7	10.9	3.9	6.6	0.0	0.3	11.1	13.4	12.8	0.1	3.4	6.5	8.0
May	0.0	4.1	6.6	8.2	3.6	5.5	0.0	0.1	8.3	10.6	10.1	0.0	0.4	3.8	4.4
Jun	0.6	5.7	6.6	9.6	3.7	6.0	0.0	0.2	9.7	12.0	11.5	0.1	1.9	5.2	6.2
Jul	3.2	12.7	6.9	15.5	4.6	8.6	0.1	0.8	16.1	18.1	17.4	0.3	8.5	11.4	14.1
Aug	4.8	16.8	7.0	19.0	5.1	10.1	0.1	1.2	19.8	21.6	20.8	0.5	12.3	14.9	18.6
Sep	4.8	16.8	7.0	19.0	5.1	10.1	0.1	1.2	19.8	21.7	20.8	0.5	12.3	15.0	18.7
Oct	4.8	17.0	7.0	19.2	5.1	10.2	0.1	1.2	20.0	21.8	20.9	0.5	12.5	15.1	18.8
Nov	5.1	17.7	7.0	19.7	5.2	10.4	0.1	1.3	20.6	22.4	21.5	0.5	13.1	15.7	19.6
Dec	4.6	16.3	7.0	18.6	5.0	9.9	0.1	1.2	19.3	21.2	20.4	0.5	11.8	14.5	18.1
Avg	2.94	11.90	6.84	14.85	4.50	8.31	0.05	0.77	15.35	17.40	16.68	0.31	7.71	10.64	13.16
Alt 2	Change in Salinity														
Jan	-0.8	0.5	-2.8	0.2	0.3	-1.7	0.0	0.0	-0.9	0.0	-2.2	0.2	-2.6	0.4	0.6
Feb	-0.5	0.3	-3.3	0.1	-0.1	-2.7	0.0	0.0	-1.8	-0.2	-3.4	0.1	-1.8	0.1	0.5
Mar	-0.3	0.1	-3.6	0.0	-0.5	-3.5	0.0	0.0	-2.4	-0.4	-4.4	0.1	-1.2	-0.1	0.3
Apr	-0.3	0.1	-3.6	0.0	-0.4	-3.5	0.0	0.0	-2.4	-0.4	-4.3	0.1	-1.2	-0.1	0.3
May	0.0	-0.1	-4.1	-0.1	-0.9	-4.6	0.0	0.0	-3.4	-0.7	-5.7	0.0	-0.3	-0.4	0.2
Jun	-0.2	0.0	-3.8	-0.1	-0.7	-4.0	0.0	0.0	-2.9	-0.6	-5.0	0.0	-0.8	-0.2	0.2
Jul	-0.8	0.6	-2.7	0.2	0.4	-1.4	0.0	0.0	-0.7	0.1	-2.0	0.2	-2.7	0.5	0.7
Aug	-1.2	0.9	-2.1	0.4	1.0	0.1	0.0	0.0	0.5	0.5	-0.3	0.2	-3.9	0.9	0.9
Sep	-1.2	0.9	-2.1	0.4	1.0	0.1	0.0	0.0	0.5	0.5	-0.3	0.2	-3.9	0.9	0.9
Oct	-1.3	0.9	-2.0	0.4	1.0	0.1	0.0	0.0	0.6	0.5	-0.2	0.3	-3.9	0.9	0.9
Nov	-1.3	1.0	-1.9	0.4	1.1	0.4	0.0	0.0	0.8	0.5	0.1	0.3	-4.1	1.0	0.9
Dec	-1.2	0.9	-2.2	0.4	0.9	-0.1	0.0	0.0	0.4	0.4	-0.5	0.2	-3.7	0.9	0.9
Avg	-2.9	-11.9	-6.8	-14.8	-4.5	-8.3	-0.1	-0.8	-15.4	-17.4	-16.7	-0.3	-7.7	-10.6	-13.2
Alt 3	Change in Salinity														
Jan	-0.8	-1.1	-3.9	-3.1	-0.8	-2.0	0.0	-0.1	-2.9	-4.0	-4.1	0.1	-2.6	-0.9	-1.2
Feb	-0.5	-2.1	-4.8	-4.9	-1.7	-3.2	0.0	-0.1	-4.8	-6.3	-6.2	0.1	-1.8	-1.9	-2.3
Mar	-0.3	0.1	-3.6	0.0	-0.5	-3.5	0.0	0.0	-2.4	-0.4	-4.4	0.1	-1.2	-0.1	0.3
Apr	-0.3	0.1	-3.6	0.0	-0.4	-3.5	0.0	0.0	-2.4	-0.4	-4.3	0.1	-1.2	-0.1	0.3
May	0.0	-0.1	-4.1	-0.1	-0.9	-4.6	0.0	0.0	-3.4	-0.7	-5.7	0.0	-0.3	-0.4	0.2
Jun	-0.2	0.0	-3.8	-0.1	-0.7	-4.0	0.0	0.0	-2.9	-0.6	-5.0	0.0	-0.8	-0.2	0.2
Jul	-0.9	-0.9	-3.7	-2.7	-0.6	-1.8	0.0	-0.1	-2.5	-3.5	-3.6	0.1	-2.8	-0.8	-1.0
Aug	-1.3	0.6	-2.3	-0.2	0.8	0.0	0.0	-0.1	0.2	-0.2	-0.6	0.2	-3.9	0.7	0.6
Sep	-1.3	0.6	-2.3	-0.1	0.8	0.0	0.0	-0.1	0.2	-0.1	-0.5	0.2	-3.9	0.7	0.6
Oct	-1.3	0.7	-2.2	0.0	0.9	0.1	0.0	-0.1	0.3	0.0	-0.4	0.2	-4.0	0.7	0.7
Nov	-1.3	0.9	-2.0	0.4	1.1	0.4	0.0	-0.1	0.8	0.5	0.1	0.2	-4.1	1.0	0.9
Dec	-1.2	0.4	-2.5	-0.4	0.6	-0.2	0.0	-0.1	-0.1	-0.6	-0.9	0.2	-3.8	0.5	0.4
Avg	-0.8	-0.1	-3.2	-0.9	-0.1	-1.9	0.0	0.0	-1.7	-1.4	-3.0	0.1	-2.5	-0.1	0.0
Alt 4	Change in Salinity														
Jan	-0.3	1.3	-1.6	0.1	-1.8	-6.6	0.0	1.5	-0.3	-2.1	-11.8	0.4	-2.2	1.1	1.5
Feb	-0.2	0.8	-2.5	0.0	-1.6	-6.0	0.0	1.0	-1.3	-1.7	-10.0	0.3	-1.5	0.6	1.0
Mar	-0.1	0.5	-3.2	-0.1	-1.4	-5.5	0.0	0.6	-2.2	-1.4	-8.6	0.1	-1.0	0.2	0.7
Apr	-0.1	0.5	-3.1	-0.1	-1.5	-5.5	0.0	0.6	-2.1	-1.4	-8.7	0.2	-1.1	0.3	0.7
May	0.0	-0.1	-4.1	-0.2	-1.2	-4.8	0.0	0.0	-3.3	-1.0	-6.7	0.0	-0.3	-0.3	0.2
Jun	-0.1	0.2	-3.6	-0.1	-1.3	-5.2	0.0	0.3	-2.7	-1.2	-7.7	0.1	-0.7	0.0	0.5
Jul	-0.4	1.4	-1.5	0.1	-1.9	-6.8	0.0	1.6	0.0	-2.2	-12.1	0.4	-2.3	1.2	1.6
Aug	-0.5	2.1	-0.2	0.2	-2.2	-7.7	0.0	2.3	1.5	-2.7	-14.6	0.6	-3.2	1.9	2.2
Sep	-0.5	2.1	-0.2	0.2	-2.2	-7.7	0.0	2.3	1.5	-2.7	-14.7	0.6	-3.2	1.9	2.3
Oct	-0.5	2.1	-0.2	0.2	-2.2	-7.7	0.0	2.3	1.6	-2.7	-14.8	0.6	-3.3	2.0	2.3
Nov	-0.6	2.2	0.0	0.2	-2.3	-7.9	0.0	2.5	1.8	-2.8	-15.2	0.7	-3.4	2.1	2.4
Dec	-0.5	2.0	-0.4	0.2	-2.2	-7.6	0.0	2.2	1.3	-2.6	-14.3	0.6	-3.1	1.8	2.2
Avg	-0.3	1.3	-1.7	0.1	-1.8	-6.6	0.0	1.4	-0.3	-2.1	-11.6	0.4	-2.1	1.1	1.5
Alt 5	Change in Salinity														
Jan	-0.3	1.3	-1.6	0.0	-1.9	-6.7	0.0	1.5	-0.3	-2.1	-11.8	0.4	-2.2	1.1	1.5
Feb	-0.2	0.8	-2.5	-0.1	-1.6	-6.0	0.0	1.0	-1.4	-1.7	-10.0	0.2	-1.6	0.5	1.0
Mar	-0.1	0.5	-3.2	-0.1	-1.4	-5.5	0.0	0.6	-2.2	-1.4	-8.6	0.1	-1.0	0.2	0.7
Apr	-0.1	0.5	-3.1	-0.1	-1.5	-5.6	0.0	0.6	-2.1	-1.4	-8.7	0.1	-1.1	0.3	0.7
May	0.0	-0.1	-4.1	-0.2	-1.2	-4.8	0.0	0.0	-3.3	-1.0	-6.7	0.0	-0.3	-0.3	0.2
Jun	-0.1	0.2	-3.6	-0.1	-1.3	-5.2	0.0	0.3	-2.7	-1.2	-7.7	0.1	-0.7	0.0	0.5
Jul	-0.4	1.4	-1.5	0.1	-1.9	-6.8	0.0	1.6	-0.1	-2.2	-12.1	0.4	-2.3	1.2	1.6
Aug	-0.5	2.1	-0.2	0.2	-2.2	-7.7	0.0	2.3	1.5	-2.7	-14.6	0.6	-3.2	1.9	2.3
Sep	-0.5	2.1	-0.2	0.2	-2.2	-7.7	0.0	2.3	1.5	-2.7	-14.7	0.6	-3.2	1.9	2.3
Oct	-0.5	2.2	-0.2	0.2	-2.2	-7.7	0.0	2.4	1.6	-2.7	-14.8	0.6	-3.3	1.9	2.4
Nov	-0.6	2.3	0.0	0.2	-2.3	-7.9	0.0	2.5	1.8	-2.8	-15.2	0.6	-3.5	2.1	2.5
Dec	-0.5	2.0	-0.4	0.2	-2.2	-7.6	0.0	2.2	1.3	-2.6	-14.4	0.6	-3.2	1.8	2.3
Avg	-0.3	1.3	-1.7	0.0	-1.8	-6.6	0.0	1.4	-0.4	-2.1	-11.6	0.4	-2.1	1.0	1.5
Alt 6	Change in Salinity														
Jan	0.0	-1.6	-2.4	-3.3	-1.3	-1.9	0.0	-0.2	-3.3	-4.2	-3.9	0.0	0.0	-1.4	-1.8
Feb	0.0	-2.5	-3.9	-5.0	-2.1	-3.1	0.0	-0.2	-5.0	-6.5	-6.1	0.0	-0.2	-2.2	-2.7
Mar	0.0	0.0	0.1	-0.3	-0.8	-2.9	0.0	-0.1	0.1	-0.8	-2.0	0.0	0.0	0.1	0.0
Apr	0.0	0.0	0.1	-0.3	-0.8	-2.8	0.0	-0.1	0.1	-0.8	-2.0	0.0	0.0	0.1	0.0
May	0.0	0.0	0.0	-0.5	-1.1	-3.8	0.0	0.0	0.1	-1.0	-2.7	0.0	0.0	0.0	0.0
Jun	0.0	0.0	0.1	-0.4	-0.9	-3.3	0.0	0.0	0.1	-0.9	-2.3	0.0	0.0	0.0	0.0
Jul	0.0	-1.5	-2.2	-2.9	-1.1	-1.6	0.0	-0.2	-3.0	-3.8	-3.5	0.0	0.0	-1.3	-1.7
Aug	0.0	-0.2	-0.1	-0.5	0.0	0.2	0.0	-0.3	-0.5	-0.6	-0.4	0.0	0.2	-0.1	-0.4
Sep	0.0	-0.2	0.0	-0.4	0.1	0.2	0.0	-0.3	-0.5	-0.5	-0.3	0.0	0.2	-0.1	-0.4
Oct	0.0	-0.2	0.0	-0.3	0.1	0.3	0.0	-0.3	-0.4	-0.4	-0.2	0.0	0.2	0.0	-0.3
Nov	0.0	0.0	0.4	0.1	0.3	0.6	0.0	-0.3	0.1	0.1	0.3	0.0	0.2	0.2	-0.1
Dec	0.0	-0.4	-0.3	-0.7	-0.1	0.0	0.0	-0.3	-0.8	-0.9	-0.7	0.0	0.2	-0.2	-0.5
Avg	0.0	-0.5	-0.7	-1.2	-0.6	-1.5	0.0	-0.2	-1.1	-1.7	-2.0	0.0	0.1	-0.4	-0.7
Alt 8	Change in Salinity														
Jan	0.3	0.4	-2.5	0.2	-0.1	-1.4	0.0	0.3	-0.8	0.1	-2.2	0.1	0.2	0.4	0.4
Feb	0.2	0.3	-3.0	0.1	-0.3	-2.1	0.0	0.2	-1.6	-0.2	-3.3	0.1	0.2	0.3	0.3
Mar	0.1	0.3	-3.4	0.0	-0.5	-2.7	0.0	0.1	-2.3	-0.4	-4.1	0.1	0.1	0.3	0.3
Apr	0.1	0.3	-3.4	0.0	-0.5	-2.7	0.0	0.1	-2.2	-0.4	-4.1	0.1	0.1	0.3	0.3
May	0.0	0.2	-4.0	-0.1	-0.7	-3.5	0.0	0.0	-3.2	-0.6	-5.3	0.0	0.0	0.2	0.2
Jun	0.1	0.2	-3.7	-0.1	-0.6	-3.1	0.0	0.1	-2.7	-0.5	-4.6	0.0	0.1	0.2	0.2
Jul	0.3	0.4	-2.4	0.2	0.0	-1.2	0.0	0.3	-0.7	0.1	-2.0	0.2	0.2	0.4	0.4
Aug	0.5	0.5	-1.6	0.4	0.3	-0.2	0.0	0.4	0.5	0.5	-0.4	0.2	0.3	0.5	0.5
Sep	0.5	0.5	-1.6	0.4	0.3	-0.1	0.0	0.4	0.5	0.5	-0.4	0.2	0.3	0.5	0.5
Oct	0.5	0.5	-1.6	0.4	0.3	-0.1	0.0	0.4	0.6	0.5	-0.3	0.2	0.4	0.5	0.5
Nov	0.5	0.5	-1.5	0.5	0.3	0.1	0.0	0.4	0.8	0.6	-0.1	0.2	0.4	0.6	0.5
Dec	0.4	0.5	-1.7	0.4	0.2	-0.3	0.0	0.4	0.4	0					

1365 Table L2-21 - Salinity change summary for 2025

	A1	A3 North	A3 South	A4	A5	A6 East	A6 West	A7	A8	A9	Avoca Island	B2 North	B2 South	B3	B5	B6 North	B6 South
2025																	
Alt 1	Salinity																
Jan	0.0	0.0	0.1	0.0	0.6	1.1	1.2	4.0	3.6	0.9	0.0	0.6	0.8	1.1	3.5	6.5	9.5
Feb	0.0	0.0	0.0	0.0	0.5	0.7	0.8	2.6	2.3	0.6	0.0	0.4	0.5	0.7	2.3	5.6	7.1
Mar	0.0	0.0	0.0	0.0	0.4	0.4	0.5	1.5	1.3	0.3	0.0	0.3	0.3	0.4	1.3	4.8	5.1
Apr	0.0	0.0	0.0	0.0	0.4	0.4	0.5	1.6	1.4	0.3	0.0	0.3	0.3	0.4	1.4	4.9	5.2
May	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.8	2.5
Jun	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.8	0.7	0.2	0.0	0.2	0.2	0.2	0.7	4.3	3.9
Jul	0.0	0.0	0.1	0.1	0.7	1.2	1.3	4.3	3.8	0.9	0.0	0.7	0.9	1.1	3.7	6.7	10.0
Aug	0.0	0.1	0.1	0.1	0.9	1.8	1.9	6.3	5.6	1.3	0.0	1.0	1.3	1.7	5.4	8.1	13.6
Sep	0.0	0.1	0.1	0.1	0.9	1.8	1.9	6.4	5.6	1.3	0.0	1.0	1.3	1.7	5.4	8.2	13.6
Oct	0.1	0.1	0.1	0.1	0.7	1.5	1.8	5.9	5.1	1.2	0.0	0.3	0.5	0.8	4.0	7.8	13.8
Nov	0.1	0.1	0.1	0.1	0.7	1.5	1.9	6.2	5.4	1.2	0.0	0.4	0.5	0.8	4.2	8.0	14.4
Dec	0.0	0.1	0.1	0.1	0.9	1.7	1.8	6.1	5.4	1.3	0.0	0.9	1.2	1.6	5.2	8.0	13.2
Avg	0.03	0.04	0.06	0.05	0.60	1.03	1.16	3.81	3.36	0.79	0.01	0.51	0.65	0.88	3.09	6.38	9.33
Alt 2	Change in Salinity																
Jan	0.0	0.0	0.0	0.0	0.5	1.2	-0.8	-2.0	-1.5	1.1	0.0	-0.5	-0.5	-0.3	1.0	-0.7	0.0
Feb	0.0	0.0	0.0	0.0	0.3	0.8	-0.5	-1.3	-1.0	0.7	0.0	-0.3	-0.3	-0.2	0.7	-1.5	-0.6
Mar	0.0	0.0	0.0	0.0	0.2	0.4	-0.3	-0.8	-0.6	0.4	0.0	-0.2	-0.2	-0.1	0.4	-2.0	-1.1
Apr	0.0	0.0	0.0	0.0	0.2	0.5	-0.3	-0.8	-0.6	0.4	0.0	-0.2	-0.2	-0.1	0.4	-2.0	-1.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.8	-1.8
Jun	0.0	0.0	0.0	0.0	0.1	0.2	-0.2	-0.4	-0.3	0.2	0.0	-0.1	-0.1	0.0	0.2	-2.4	-1.5
Jul	0.0	0.0	0.0	0.0	0.5	1.3	-0.8	-2.2	-1.6	1.2	0.0	-0.5	-0.5	-0.3	1.1	-0.6	0.2
Aug	0.0	0.0	0.0	0.0	0.7	1.9	-1.2	-3.2	-2.4	1.8	0.0	-0.7	-0.8	-0.5	1.5	0.5	1.1
Sep	0.0	0.0	0.0	0.0	0.7	1.9	-1.2	-3.2	-2.4	1.8	0.0	-0.7	-0.8	-0.5	1.5	0.5	1.1
Oct	0.0	0.0	0.0	0.0	0.9	2.2	-1.1	-2.7	-1.8	2.0	0.0	-0.1	-0.1	0.4	3.1	1.1	1.2
Nov	0.0	0.0	0.0	0.0	1.0	2.3	-1.2	-2.9	-1.9	2.1	0.0	-0.1	-0.1	0.5	3.2	1.2	1.2
Dec	0.0	0.0	0.0	0.0	0.7	1.8	-1.2	-3.1	-2.3	1.7	0.0	-0.7	-0.8	-0.4	1.5	0.3	1.0
Avg	0.0	0.0	0.0	0.0	0.5	1.2	-0.7	-1.9	-1.4	1.1	0.0	-0.4	-0.4	-0.1	1.2	-0.7	0.0
Alt 3	Change in Salinity																
Jan	0.0	0.0	0.0	0.0	0.5	1.2	-0.8	-2.1	-1.5	1.1	0.0	-0.5	-0.5	-0.3	0.9	-0.8	0.0
Feb	0.0	0.0	0.0	0.0	0.3	0.8	-0.5	-1.3	-1.0	0.7	0.0	-0.3	-0.3	-0.2	0.6	-1.5	-0.7
Mar	0.0	0.0	0.0	0.0	0.2	0.4	-0.3	-0.8	-0.6	0.4	0.0	-0.2	-0.2	-0.1	0.4	-2.0	-1.2
Apr	0.0	0.0	0.0	0.0	0.2	0.5	-0.3	-0.8	-0.6	0.4	0.0	-0.2	-0.2	-0.1	0.4	-2.0	-1.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.8	-1.8
Jun	0.0	0.0	0.0	0.0	0.1	0.2	-0.2	-0.4	-0.3	0.2	0.0	-0.1	-0.1	-0.1	0.2	-2.4	-1.5
Jul	0.0	0.0	0.0	0.0	0.5	1.3	-0.8	-2.2	-1.6	1.2	0.0	-0.5	-0.6	-0.3	1.0	-0.6	0.1
Aug	0.0	0.0	0.0	0.0	0.7	1.8	-1.2	-3.2	-2.4	1.8	0.0	-0.7	-0.8	-0.5	1.5	0.4	1.1
Sep	0.0	0.0	0.0	0.0	0.7	1.9	-1.2	-3.3	-2.4	1.8	0.0	-0.7	-0.8	-0.5	1.5	0.4	1.1
Oct	0.0	0.0	0.0	0.0	0.9	2.2	-1.1	-2.8	-1.8	2.0	0.0	-0.1	-0.1	0.4	3.0	1.0	1.1
Nov	0.0	0.0	0.0	0.0	1.0	2.3	-1.2	-2.9	-1.9	2.1	0.0	-0.1	-0.1	0.4	3.1	1.1	1.2
Dec	0.0	0.0	0.0	0.0	0.7	1.8	-1.2	-3.1	-2.3	1.7	0.0	-0.7	-0.8	-0.5	1.4	0.3	1.0
Avg	0.0	0.0	0.0	0.0	0.5	1.2	-0.7	-1.9	-1.4	1.1	0.0	-0.4	-0.4	-0.1	1.2	-0.7	-0.1
Alt 4	Change in Salinity																
Jan	0.0	0.0	0.0	0.0	1.0	2.6	-0.7	-1.5	-0.8	1.9	0.0	-0.1	0.7	0.6	3.4	-0.3	1.0
Feb	0.0	0.0	0.0	0.0	0.6	1.7	-0.4	-1.0	-0.5	1.3	0.0	-0.1	0.5	0.4	2.3	-1.2	0.0
Mar	0.0	0.0	0.0	0.0	0.4	1.0	-0.2	-0.6	-0.3	0.7	0.0	-0.1	0.3	0.2	1.3	-1.8	-0.8
Apr	0.0	0.0	0.0	0.0	0.4	1.0	-0.3	-0.6	-0.3	0.8	0.0	-0.1	0.3	0.2	1.4	-1.8	-0.7
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.8	-1.8
Jun	0.0	0.0	0.0	0.0	0.2	0.5	-0.1	-0.3	-0.2	0.4	0.0	0.0	0.2	0.1	0.7	-2.3	-1.3
Jul	0.0	0.0	0.0	0.0	1.0	2.8	-0.7	-1.6	-0.9	2.1	0.0	-0.1	0.8	0.6	3.7	-0.1	1.2
Aug	0.0	0.0	0.0	0.0	1.5	4.1	-1.0	-2.3	-1.3	3.1	0.0	-0.2	1.2	0.9	5.4	1.2	2.6
Sep	0.0	0.0	0.0	0.0	1.5	4.1	-1.0	-2.3	-1.3	3.1	0.0	-0.2	1.2	0.9	5.4	1.2	2.6
Oct	0.0	0.0	0.0	0.0	1.7	4.5	-0.9	-1.8	-0.7	3.3	0.0	0.4	2.0	1.8	7.0	1.8	2.7
Nov	0.0	0.0	0.0	0.0	1.8	4.7	-1.0	-1.9	-0.7	3.5	0.0	0.5	2.1	1.9	7.4	1.9	2.8
Dec	0.0	0.0	0.0	0.0	1.4	4.0	-1.0	-2.3	-1.2	2.9	0.0	-0.2	1.1	0.9	5.2	1.0	2.4
Avg	0.0	0.0	0.0	0.0	1.0	2.6	-0.6	-1.3	-0.7	1.9	0.0	0.0	0.9	0.7	3.6	-0.3	0.9
Alt 5	Change in Salinity																
Jan	0.0	0.0	0.0	0.0	1.0	2.6	-0.7	-1.5	-0.8	1.9	0.0	-0.2	0.6	0.6	3.4	-0.3	0.9
Feb	0.0	0.0	0.0	0.0	0.6	1.7	-0.4	-1.0	-0.5	1.3	0.0	-0.2	0.4	0.4	2.2	-1.2	-0.1
Mar	0.0	0.0	0.0	0.0	0.4	1.0	-0.3	-0.6	-0.3	0.7	0.0	-0.1	0.2	0.2	1.3	-1.8	-0.8
Apr	0.0	0.0	0.0	0.0	0.4	1.0	-0.3	-0.6	-0.3	0.8	0.0	-0.1	0.3	0.2	1.3	-1.8	-0.7
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.8	-1.8
Jun	0.0	0.0	0.0	0.0	0.2	0.5	-0.1	-0.3	-0.2	0.4	0.0	-0.1	0.1	0.1	0.7	-2.3	-1.3
Jul	0.0	0.0	0.0	0.0	1.0	2.8	-0.7	-1.6	-0.9	2.1	0.0	-0.2	0.7	0.6	3.6	-0.1	1.1
Aug	0.0	0.0	0.0	0.0	1.5	4.1	-1.1	-2.4	-1.3	3.0	0.0	-0.3	1.0	0.9	5.3	1.2	2.6
Sep	0.0	0.0	0.0	0.0	1.5	4.1	-1.1	-2.4	-1.3	3.1	0.0	-0.3	1.0	0.9	5.3	1.2	2.6
Oct	0.0	0.0	0.0	0.0	1.7	4.5	-1.0	-1.9	-0.7	3.3	0.0	0.3	1.8	1.8	6.9	1.8	2.7
Nov	0.0	0.0	0.0	0.0	1.8	4.7	-1.0	-2.0	-0.8	3.5	0.0	0.3	1.9	1.9	7.2	1.9	2.8
Dec	0.0	0.0	0.0	0.0	1.4	3.9	-1.0	-2.3	-1.3	2.9	0.0	-0.3	1.0	0.8	5.1	1.0	2.4
Avg	0.0	0.0	0.0	0.0	1.0	2.6	-0.6	-1.4	-0.7	1.9	0.0	-0.1	0.8	0.7	3.5	-0.3	0.9
Alt 6	Change in Salinity																
Jan	0.0	0.0	0.0	0.0	-0.2	-0.2	-0.1	-0.3	-0.3	-0.1	0.0	-0.5	-0.6	-0.6	-1.1	-1.4	-0.7
Feb	0.0	0.0	0.0	0.0	-0.2	-0.2	-0.1	-0.2	-0.2	-0.1	0.0	-0.3	-0.4	-0.4	-0.7	-2.2	-1.3
Mar	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0	-0.2	-0.2	-0.2	-0.4	-1.7	-1.2
Apr	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0	-0.2	-0.2	-0.2	-0.4	-1.6	-1.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.2	-1.6
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.2	-1.9	-1.4
Jul	0.0	0.0	0.0	0.0	-0.2	-0.3	-0.1	-0.3	-0.4	-0.1	0.0	-0.5	-0.6	-0.7	-1.2	-1.2	-0.6
Aug	0.0	0.0	0.0	0.0	-0.2	-0.4	-0.1	-0.5	-0.5	-0.2	0.0	-0.7	-0.9	-1.0	-1.7	0.0	0.3
Sep	0.0	0.0	0.0	0.0	-0.2	-0.4	-0.1	-0.5	-0.5	-0.2	0.0	-0.7	-0.9	-1.0	-1.7	0.1	0.4
Oct	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.2	0.7	0.4
Nov	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.2	0.8	0.5
Dec	0.0	0.0	0.0	0.0	-0.2	-0.4	-0.1	-0.5	-0.5	-0.2	0.0	-0.7	-0.9	-0.9	-1.6	-0.1	0.2
Avg	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.2	-0.2	-0.1	0.0	-0.3	-0.4	-0.5	-0.8	-0.9	-0.5
Alt 7	Change in Salinity																
Jan	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.3	-0.4	-0.1	0.0	-0.4	-0.5	-0.6	-0.9	-1.2	-0.6
Feb	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	-0.2	-0.1	0.0	-0.3	-0.3	-0.4	-0.6	-1.6	-1.0</

2025	B7 North	B7 Southeast	B7 Southwest	B8	B9	Bayou Black	Bayou Copasaw	Bayou Penchant	Big Carencro Bayou	C1	C10 North	C10 South	C10 West	C14 Central	C14 North	C14 South	C2	
Alt 1	Salinity																	
Jan	10.3	13.4	15.8	0.7	1.7	0.0	0.0	0.0	4.3	0.3	8.8	10.7	9.3	17.6	9.3	19.3	6.1	
Feb	7.7	10.4	12.4	0.5	1.1	0.0	0.0	0.0	2.8	0.2	8.3	9.5	8.7	14.3	6.3	16.4	6.1	
Mar	5.7	8.0	9.6	0.3	0.7	0.0	0.0	0.0	1.6	0.1	7.9	8.6	8.3	11.6	3.9	14.0	6.1	
Apr	5.8	8.2	9.8	0.4	0.7	0.0	0.0	0.0	1.7	0.1	7.9	8.6	8.3	11.8	4.1	14.2	6.1	
May	2.9	4.8	5.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.4	7.3	7.7	8.0	0.7	10.9	6.2	
Jun	4.4	6.6	7.9	0.2	0.4	0.0	0.0	0.0	0.9	0.1	7.7	8.0	8.0	9.9	2.4	12.6	6.2	
Jul	10.8	14.0	16.5	0.8	1.9	0.0	0.0	0.0	4.6	0.3	8.9	10.9	9.4	18.3	9.9	19.9	6.0	
Aug	14.6	18.3	21.6	1.1	2.7	0.0	0.0	0.0	6.8	0.5	9.5	12.6	10.3	23.2	14.2	24.1	6.0	
Sep	14.6	18.4	21.6	1.1	2.7	0.0	0.0	0.0	6.8	0.5	9.5	12.6	10.3	23.3	14.3	24.2	6.0	
Oct	14.8	18.7	21.8	0.5	1.4	0.0	0.0	0.0	6.5	0.5	9.0	12.1	9.7	23.6	15.4	24.3	5.3	
Nov	15.6	19.5	22.7	0.5	1.5	0.0	0.0	0.0	6.9	0.5	9.2	12.5	9.9	24.4	16.1	25.1	5.3	
Dec	14.1	17.8	21.0	1.0	2.6	0.0	0.0	0.0	6.5	0.5	9.5	12.4	10.2	22.6	13.7	23.6	6.0	
Avg	10.12	13.19	15.55	0.60	1.46	0.01	0.00	0.00	4.11	0.31	8.64	10.49	9.17	17.38	9.21	19.05	5.95	
Alt 2	Change in Salinity																	
Jan	-0.1	-0.6	-0.9	-0.3	-0.3	0.0	0.0	0.0	-0.8	0.0	-2.3	0.5	-0.9	0.3	1.3	0.0	-0.5	
Feb	-0.8	-1.5	-1.4	-0.2	-0.2	0.0	0.0	0.0	-0.5	0.0	-3.6	1.5	-1.1	0.4	0.8	0.0	-0.9	
Mar	-1.4	-2.2	-1.8	-0.1	-0.1	0.0	0.0	0.0	-0.3	0.0	-4.6	2.2	-1.2	0.4	0.4	0.1	-1.2	
Apr	-1.3	-2.2	-1.8	-0.1	-0.1	0.0	0.0	0.0	-0.3	0.0	-4.6	2.2	-1.2	0.4	0.4	0.0	-1.1	
May	-2.2	-3.2	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.0	3.2	-1.4	0.4	-0.1	0.1	-1.6	
Jun	-1.7	-2.7	-2.0	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	-5.3	2.7	-1.3	0.4	0.2	0.1	-1.3	
Jul	0.1	-0.4	-0.8	-0.3	-0.3	0.0	0.0	0.0	-0.9	0.0	-2.1	0.3	-0.8	0.3	1.4	0.0	-0.4	
Aug	1.1	1.0	0.0	-0.5	-0.5	0.0	0.0	0.0	-1.3	-0.1	-0.2	-1.1	-0.6	0.3	2.0	0.0	0.1	
Sep	1.2	1.0	0.0	-0.5	-0.5	0.0	0.0	0.0	-1.3	-0.1	-0.2	-1.1	-0.6	0.3	2.0	0.0	0.1	
Oct	1.1	0.9	0.1	0.0	0.8	0.0	0.0	0.0	-1.0	0.0	0.4	-0.5	0.1	0.1	1.2	0.0	0.7	
Nov	1.2	1.0	0.1	0.0	0.9	0.0	0.0	0.0	-1.0	0.0	0.7	-0.9	0.0	0.1	1.2	0.0	0.8	
Dec	1.0	0.8	-0.1	-0.5	-0.5	0.0	0.0	0.0	-1.2	-0.1	-0.4	-0.9	-0.6	0.3	2.0	0.0	0.0	
Avg	-0.1	-0.7	-0.9	-0.2	-0.1	0.0	0.0	0.0	-0.7	0.0	-2.4	0.7	-0.8	0.3	1.1	0.0	-0.4	
Alt 3	Change in Salinity																	
Jan	-0.1	-0.6	-0.9	-0.3	-0.3	0.0	0.0	0.0	-0.8	0.0	-2.3	0.5	-0.9	0.3	1.2	0.0	-0.5	
Feb	-0.9	-1.6	-1.5	-0.2	-0.2	0.0	0.0	0.0	-0.5	0.0	-3.6	1.4	-1.1	0.3	0.7	0.0	-0.9	
Mar	-1.4	-2.2	-1.8	-0.1	-0.1	0.0	0.0	0.0	-0.3	0.0	-4.7	2.2	-1.2	0.4	0.4	0.1	-1.2	
Apr	-1.3	-2.2	-1.8	-0.1	-0.1	0.0	0.0	0.0	-0.3	0.0	-4.6	2.2	-1.2	0.4	0.4	0.0	-1.1	
May	-2.2	-3.2	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.0	3.2	-1.4	0.4	-0.1	0.1	-1.6	
Jun	-1.7	-2.7	-2.0	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	-5.3	2.7	-1.3	0.4	0.2	0.1	-1.3	
Jul	0.0	-0.4	-0.8	-0.4	-0.4	0.0	0.0	0.0	-0.9	-0.1	-2.1	0.3	-0.9	0.3	1.3	0.0	-0.5	
Aug	1.1	0.9	0.0	-0.5	-0.5	0.0	0.0	0.0	-1.3	-0.1	-0.2	-1.1	-0.6	0.3	2.0	0.0	0.1	
Sep	1.1	0.9	0.0	-0.5	-0.5	0.0	0.0	0.0	-1.3	-0.1	-0.2	-1.1	-0.6	0.3	2.0	0.0	0.1	
Oct	1.1	0.9	0.0	0.0	0.8	0.0	0.0	0.0	-1.0	0.0	0.4	-0.5	0.1	0.1	1.1	0.0	0.7	
Nov	1.2	1.0	0.1	0.0	0.8	0.0	0.0	0.0	-1.0	0.0	0.7	-1.0	0.0	0.1	1.2	0.0	0.8	
Dec	1.0	0.8	-0.1	-0.5	-0.5	0.0	0.0	0.0	-1.2	-0.1	-0.5	-0.9	-0.6	0.3	1.9	0.0	0.0	
Avg	-0.2	-0.7	-0.9	-0.2	-0.1	0.0	0.0	0.0	-0.7	0.0	-2.4	0.7	-0.8	0.3	1.0	0.0	-0.5	
Alt 4	Change in Salinity																	
Jan	0.9	0.1	-0.6	0.6	1.0	0.0	0.0	0.0	-0.5	1.2	-1.4	0.7	-0.6	0.4	2.6	0.0	-0.5	
Feb	-0.2	-1.1	-1.2	0.4	0.6	0.0	0.0	0.0	-0.3	0.8	-3.0	1.5	-0.9	0.4	1.7	0.0	-0.9	
Mar	-1.0	-2.0	-1.7	0.2	0.4	0.0	0.0	0.0	-0.2	0.4	-4.3	2.2	-1.1	0.4	0.9	0.0	-1.1	
Apr	-1.0	-1.9	-1.6	0.3	0.4	0.0	0.0	0.0	-0.2	0.5	-4.2	2.2	-1.1	0.4	1.0	0.0	-1.1	
May	-2.2	-3.2	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.1	3.2	-1.4	0.4	-0.1	0.1	-1.5	
Jun	-1.5	-2.5	-2.0	0.1	0.2	0.0	0.0	0.0	-0.1	0.2	-5.1	2.7	-1.2	0.4	0.4	0.1	-1.3	
Jul	1.1	0.3	-0.4	0.6	1.0	0.0	0.0	0.0	-0.6	1.3	-1.1	0.5	-0.6	0.4	2.8	0.0	-0.4	
Aug	2.6	2.0	0.5	0.9	1.5	0.0	0.0	0.0	-0.8	1.9	1.3	-0.8	-0.2	0.4	4.2	0.0	0.1	
Sep	2.7	2.0	0.5	0.9	1.5	0.0	0.0	0.0	-0.8	1.9	1.3	-0.8	-0.2	0.4	4.2	0.0	0.1	
Oct	2.6	1.9	0.6	1.5	2.9	0.0	0.0	0.0	-0.5	2.0	1.9	-0.2	0.5	0.2	3.3	0.0	0.7	
Nov	2.8	2.1	0.6	1.5	3.0	0.0	0.0	0.0	-0.6	2.1	2.3	-0.7	0.4	0.3	3.5	0.0	0.8	
Dec	2.5	1.8	0.4	0.8	1.5	0.0	0.0	0.0	-0.8	1.8	1.0	-0.6	-0.2	0.4	4.0	0.0	0.0	
Avg	0.8	0.0	-0.6	0.7	1.2	0.0	0.0	0.0	-0.5	1.2	-1.5	0.8	-0.6	0.4	2.4	0.0	-0.4	
Alt 5	Change in Salinity																	
Jan	0.8	0.0	-0.6	0.5	0.9	0.0	0.0	0.0	-0.6	1.2	-1.5	0.6	-0.7	0.4	2.5	0.0	-0.5	
Feb	-0.2	-1.2	-1.3	0.3	0.6	0.0	0.0	0.0	-0.4	0.8	-3.1	1.5	-0.9	0.4	1.6	0.0	-0.9	
Mar	-1.0	-2.0	-1.7	0.2	0.4	0.0	0.0	0.0	-0.2	0.4	-4.3	2.2	-1.1	0.4	0.9	0.0	-1.1	
Apr	-1.0	-1.9	-1.6	0.2	0.4	0.0	0.0	0.0	-0.2	0.5	-4.2	2.2	-1.1	0.4	0.9	0.0	-1.1	
May	-2.2	-3.2	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.1	3.2	-1.4	0.4	-0.1	0.1	-1.5	
Jun	-1.6	-2.5	-2.0	0.1	0.2	0.0	0.0	0.0	-0.1	0.2	-5.1	2.7	-1.3	0.4	0.4	0.1	-1.3	
Jul	1.0	0.2	-0.5	0.5	1.0	0.0	0.0	0.0	-0.6	1.3	-1.1	0.5	-0.6	0.4	2.7	0.0	-0.5	
Aug	2.6	1.9	0.4	0.8	1.5	0.0	0.0	0.0	-0.9	1.8	1.2	-0.8	-0.2	0.4	4.1	0.0	0.1	
Sep	2.6	1.9	0.5	0.8	1.5	0.0	0.0	0.0	-0.9	1.9	1.2	-0.8	-0.2	0.4	4.1	0.0	0.1	
Oct	2.6	1.9	0.5	1.4	2.8	0.0	0.0	0.0	-0.6	1.9	1.9	-0.2	0.5	0.2	3.3	0.0	0.7	
Nov	2.8	2.1	0.6	1.4	3.0	0.0	0.0	0.0	-0.6	2.0	2.2	-0.7	0.4	0.3	3.4	0.0	0.8	
Dec	2.4	1.7	0.3	0.8	1.4	0.0	0.0	0.0	-0.8	1.8	0.9	-0.6	-0.3	0.4	3.9	0.0	0.0	
Avg	0.7	-0.1	-0.6	0.6	1.1	0.0	0.0	0.0	-0.5	1.1	-1.5	0.8	-0.6	0.4	2.3	0.0	-0.4	
Alt 6	Change in Salinity																	
Jan	-0.8	-1.6	-2.3	-0.5	-0.9	0.0	0.0	0.0	0.2	-0.1	-2.8	-2.8	-3.0	-3.1	0.3	-4.4	-2.3	
Feb	-1.5	-2.7	-3.5	-0.4	-0.6	0.0	0.0	0.0	0.1	-0.1	-4.4	-4.4	-4.6	-4.8	0.0	-6.7	-3.6	
Mar	-1.3	-1.7	-1.0	-0.1	-0.3	0.0	0.0	0.0	0.1	0.0	-0.8	-3.6	-2.2	0.5	0.1	0.0	-0.2	
Apr	-1.3	-1.7	-1.0	-0.2	-0.4	0.0	0.0	0.0	0.1	0.0	-0.7	-3.5	-2.2	0.5	0.1	0.0	-0.2	
May	-1.8	-2.4	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1	-4.7	-3.0	0.6	-0.1	0.0	-0.4	
Jun	-1.5	-2.0	-1.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	-0.9	-4.1	-2.6	0.5	0.0	0.0	-0.3	
Jul	-0.7	-1.4	-2.1	-0.5	-1.0	0.0	0.0	0.0	0.2	-0.1	-2.5	-2.5	-2.6	-2.8	0.4	-4.0	-2.0	
Aug	0.4	0.2	-0.3	-0.7	-1.4	0.0	0.0	0.0	0.2	-0.2	-0.2	-0.2	-0.2	-0.4	0.9	-0.7	-0.1	
Sep	0.4	0.2	-0.2	-0.7	-1.4	0.0	0.0	0.0	0.2	-0.2	-0.2	-0.2	-0.2	-0.3	0.9	-0.7	0.0	
Oct	0.4	0.2	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.6	-0.1	0.5	0.6	0.5	-0.4	0.1	-0.5	0.7	
Nov	0.4	0.3	0.1	-0.1	-0.1	0.0	0.0	0.0	0.6	-0.1	0.8	0.7	0.8	0.0	0.1	0.0	1.0	
Dec	0.3	0.0	-0.5	-0.7	-1.4	0.0	0.0	0.0	0.2	-0.2	-0.5	-0.4	-0.5	-0.6	0.9	-1.1	-0.3	
Avg	-0.6	-1.0	-1.1	-0.3	-0.7	0.0	0.0	0.0	0.2	-0.1	-1.1	-2.1	-1.7	-0.9	0.3	-1.5	-0.6	
Alt 7	Change in Salinity																	
Jan	-0.6	-0.8	-0.5	-0.3	-0.8	0.0	0.0	0.0	-0.2	0.0	-0.8	-2.2	-1.5	0.3	0.5	0.0	-0.5	
Feb	-1.1	-1.4	-0.8	-0.2	-0.5	0.0	0.0	0.0	-0.1	0.0	-0.9	-3.1	-2.0	0.4	0.3	0.0	-0.5	

2025	C3	C4	C5	C6	C7	C8	C9	Carencro Bayou	Creole Bayou	D3 Central	D3 North	D3 South	E2 Northwest	E2 Southeast	E3 North	E3 South	E4 North	
Alt 1 Salinity																		
Jan	6.8	6.9	7.2	7.3	7.7	8.1	7.8	0.1	0.0	15.7	12.2	18.8	11.2	17.4	13.0	13.3	17.5	
Feb	6.7	6.9	7.0	7.1	7.5	7.8	7.5	0.0	0.0	13.0	10.4	15.9	8.0	15.1	11.1	11.4	15.2	
Mar	6.6	6.8	6.9	6.9	7.3	7.6	7.3	0.0	0.0	10.8	8.9	13.5	5.4	13.2	9.7	9.9	13.3	
Apr	6.6	6.8	6.9	6.9	7.3	7.6	7.3	0.0	0.0	11.0	9.0	13.7	5.6	13.3	9.8	10.0	13.4	
May	6.5	6.8	6.7	6.7	7.1	7.3	7.0	0.0	0.0	8.0	6.9	10.4	1.9	10.7	7.7	7.8	10.8	
Jun	6.6	6.8	6.8	6.8	7.2	7.5	7.1	0.0	0.0	9.5	8.0	12.0	3.8	12.1	8.7	8.9	12.1	
Jul	6.8	6.9	7.2	7.3	7.7	8.2	7.9	0.1	0.0	16.2	12.6	19.4	11.9	17.8	13.4	13.7	18.0	
Aug	7.0	7.0	7.5	7.6	8.0	8.6	8.4	0.1	0.0	20.1	15.2	23.6	16.5	21.2	16.1	16.4	21.4	
Sep	7.0	7.0	7.5	7.6	8.0	8.6	8.4	0.1	0.0	20.1	15.2	23.7	16.6	21.2	16.1	16.4	21.4	
Oct	6.4	6.4	7.0	7.1	7.5	8.1	7.9	0.1	0.0	19.7	14.6	23.8	16.0	21.2	16.0	16.4	21.4	
Nov	6.4	6.4	7.0	7.1	7.5	8.1	7.9	0.1	0.0	20.5	15.1	24.6	16.8	21.7	16.5	16.9	22.0	
Dec	7.0	7.0	7.5	7.5	8.0	8.5	8.3	0.1	0.0	19.6	14.9	23.2	16.0	20.8	15.8	16.1	21.0	
Avg	6.71	6.83	7.10	7.15	7.55	8.00	7.73	0.06	0.02	15.35	11.92	18.54	10.79	17.14	12.82	13.09	17.30	
Alt 2 Change in Salinity																		
Jan	-5.5	0.0	-5.8	-5.7	-0.4	-0.7	-4.6	0.0	0.0	-1.0	-1.3	-0.3	-0.4	0.3	0.1	0.1	0.3	
Feb	-5.8	-0.2	-6.1	-6.0	-0.7	-1.2	-5.4	0.0	0.0	-2.2	-2.3	-0.4	-0.5	0.1	0.0	0.0	0.2	
Mar	-6.0	-0.3	-6.3	-6.3	-1.0	-1.6	-5.9	0.0	0.0	-3.2	-3.1	-0.6	-0.5	-0.1	0.0	0.0	0.0	
Apr	-6.0	-0.3	-6.3	-6.3	-1.0	-1.6	-5.9	0.0	0.0	-3.1	-3.1	-0.6	-0.5	0.0	0.0	0.0	0.0	
May	-6.3	-0.5	-6.6	-6.6	-1.4	-2.2	-6.7	0.0	0.0	-4.4	-4.2	-0.7	-0.6	-0.2	-0.1	-0.1	-0.1	
Jun	-6.2	-0.4	-6.5	-6.4	-1.2	-1.9	-6.3	0.0	0.0	-3.8	-3.6	-0.6	-0.5	-0.1	-0.1	0.0	0.0	
Jul	-5.5	0.0	-5.8	-5.6	-0.3	-0.6	-4.5	0.0	0.0	-0.8	-1.1	-0.2	-0.4	0.3	0.2	0.1	0.4	
Aug	-5.1	0.3	-5.4	-5.2	0.2	0.2	-3.5	0.0	0.0	0.9	0.3	0.0	-0.4	0.6	0.3	0.2	0.6	
Sep	-5.1	0.3	-5.4	-5.2	0.2	0.2	-3.5	0.0	0.0	0.9	0.3	0.0	-0.4	0.6	0.3	0.2	0.6	
Oct	-4.5	0.9	-4.8	-4.6	0.7	0.8	-2.9	0.0	0.0	1.6	1.1	0.1	0.4	0.8	0.5	0.3	0.7	
Nov	-4.4	0.9	-4.8	-4.5	0.8	0.9	-2.7	0.0	0.0	1.7	1.2	0.1	0.5	0.8	0.5	0.4	0.8	
Dec	-5.1	0.2	-5.4	-5.2	0.1	0.1	-3.6	0.0	0.0	0.7	0.1	0.0	-0.4	0.6	0.3	0.2	0.6	
Avg	-5.5	0.1	-5.8	-5.6	-0.3	-0.6	-4.6	0.0	0.0	-1.1	-1.3	-0.3	-0.3	0.3	0.2	0.1	0.3	
Alt 3 Change in Salinity																		
Jan	-5.6	0.0	-5.9	-5.7	-0.4	-0.6	-4.6	0.0	0.0	-1.1	-1.4	-0.3	-0.5	0.3	0.2	0.1	0.3	
Feb	-5.8	-0.2	-6.1	-6.0	-0.7	-1.2	-5.2	0.0	0.0	-2.3	-2.4	-0.5	-0.5	0.1	0.1	0.1	0.1	
Mar	-6.1	-0.3	-6.3	-6.3	-1.0	-1.6	-5.9	0.0	0.0	-3.2	-3.1	-0.6	-0.5	-0.1	0.0	0.0	0.0	
Apr	-6.0	-0.3	-6.3	-6.3	-1.0	-1.6	-5.9	0.0	0.0	-3.1	-3.1	-0.6	-0.5	0.0	0.0	0.0	0.0	
May	-6.3	-0.5	-6.6	-6.6	-1.4	-2.2	-6.7	0.0	0.0	-4.4	-4.2	-0.7	-0.6	-0.2	-0.1	-0.1	-0.1	
Jun	-6.2	-0.4	-6.5	-6.4	-1.2	-1.9	-6.3	0.0	0.0	-3.8	-3.6	-0.6	-0.5	-0.1	-0.1	0.0	0.0	
Jul	-5.5	0.0	-5.8	-5.7	-0.3	-0.5	-4.5	0.0	0.0	-0.9	-1.2	-0.3	-0.5	0.3	0.2	0.1	0.3	
Aug	-5.1	0.3	-5.4	-5.3	0.2	0.2	-3.6	0.0	0.0	0.9	0.2	0.0	-0.4	0.6	0.4	0.3	0.6	
Sep	-5.1	0.3	-5.4	-5.2	0.2	0.2	-3.6	0.0	0.0	0.9	0.3	0.0	-0.4	0.6	0.4	0.3	0.6	
Oct	-4.5	0.9	-4.8	-4.7	0.7	0.8	-3.1	0.0	0.0	1.6	1.0	0.1	0.4	0.8	0.5	0.4	0.7	
Nov	-4.5	0.9	-4.8	-4.6	0.8	0.9	-2.9	0.0	0.0	1.7	1.2	0.1	0.4	0.8	0.5	0.4	0.8	
Dec	-5.2	0.2	-5.5	-5.3	0.1	0.1	-3.7	0.0	0.0	0.7	0.1	-0.1	-0.4	0.5	0.3	0.2	0.5	
Avg	-5.5	0.1	-5.8	-5.7	-0.3	-0.6	-4.7	0.0	0.0	-1.1	-1.4	-0.3	-0.3	0.3	0.2	0.2	0.3	
Alt 4 Change in Salinity																		
Jan	-3.6	0.1	-3.5	-3.3	-0.1	-0.1	-2.6	0.0	0.0	-0.4	0.3	-0.3	1.8	-0.4	-0.3	-0.2	-0.2	
Feb	-4.6	-0.1	-4.6	-4.5	-0.5	-0.8	-4.1	0.0	0.0	-1.8	-1.3	-0.4	1.0	-0.3	-0.2	-0.1	-0.2	
Mar	-5.3	-0.3	-5.5	-5.4	-0.9	-1.4	-5.2	0.0	0.0	-2.9	-2.5	-0.6	0.4	-0.3	-0.2	-0.1	-0.2	
Apr	-5.3	-0.2	-5.4	-5.3	-0.9	-1.4	-5.2	0.0	0.0	-2.9	-2.4	-0.5	0.4	-0.3	-0.2	-0.1	-0.2	
May	-6.3	-0.5	-6.6	-6.6	-1.4	-2.2	-6.8	0.0	0.0	-4.4	-4.2	-0.7	-0.5	-0.3	-0.1	-0.1	-0.2	
Jun	-5.8	-0.4	-6.0	-6.0	-1.1	-1.8	-6.0	0.0	0.0	-3.6	-3.3	-0.6	0.0	-0.3	-0.2	-0.1	-0.2	
Jul	-3.4	0.1	-3.3	-3.1	0.0	0.0	-2.3	0.0	0.0	-0.2	0.6	-0.2	2.0	-0.4	-0.3	-0.2	-0.2	
Aug	-2.1	0.4	-1.8	-1.4	0.7	1.1	-0.1	0.0	0.0	1.8	2.8	0.0	3.2	-0.5	-0.3	-0.2	-0.3	
Sep	-2.1	0.4	-1.7	-1.4	0.7	1.1	-0.1	0.0	0.0	1.9	2.9	0.0	3.2	-0.5	-0.3	-0.2	-0.3	
Oct	-1.4	1.1	-1.2	-0.8	1.3	1.7	0.5	0.0	0.0	2.5	3.7	0.1	4.0	-0.3	-0.2	-0.1	-0.1	
Nov	-1.2	1.1	-0.9	-0.5	1.4	1.9	0.9	0.0	0.0	2.7	3.9	0.1	4.2	-0.3	-0.2	-0.1	-0.1	
Dec	-2.2	0.4	-1.9	-1.6	0.6	1.0	-0.4	0.0	0.0	1.6	2.6	0.0	3.0	-0.4	-0.3	-0.2	-0.3	
Avg	-3.6	0.2	-3.5	-3.3	0.0	-0.1	-2.6	0.0	0.0	-0.5	0.3	-0.3	1.9	-0.4	-0.2	-0.2	-0.2	
Alt 5 Change in Salinity																		
Jan	-3.8	0.1	-3.7	-3.4	0.0	-0.1	-2.6	0.0	0.0	-0.5	0.2	-0.3	1.8	-0.4	-0.3	-0.2	-0.2	
Feb	-4.7	-0.1	-4.7	-4.5	-0.5	-0.8	-4.1	0.0	0.0	-1.9	-1.3	-0.5	1.0	-0.4	-0.2	-0.2	-0.2	
Mar	-5.4	-0.3	-5.5	-5.4	-0.9	-1.4	-5.3	0.0	0.0	-2.9	-2.5	-0.6	0.4	-0.3	-0.2	-0.1	-0.2	
Apr	-5.3	-0.2	-5.5	-5.4	-0.9	-1.4	-5.2	0.0	0.0	-2.9	-2.4	-0.5	0.4	-0.3	-0.2	-0.1	-0.2	
May	-6.3	-0.5	-6.6	-6.6	-1.4	-2.2	-6.8	0.0	0.0	-4.4	-4.2	-0.7	-0.5	-0.3	-0.1	-0.1	-0.2	
Jun	-5.8	-0.4	-6.0	-6.0	-1.1	-1.8	-6.0	0.0	0.0	-3.6	-3.3	-0.6	0.0	-0.3	-0.2	-0.1	-0.2	
Jul	-3.6	0.1	-3.5	-3.2	0.1	0.0	-2.3	0.0	0.0	-0.2	0.5	-0.3	2.0	-0.4	-0.3	-0.2	-0.2	
Aug	-2.3	0.4	-2.0	-1.6	0.7	1.1	-0.2	0.0	0.0	1.8	2.8	0.0	3.2	-0.5	-0.3	-0.2	-0.3	
Sep	-2.3	0.4	-1.9	-1.6	0.7	1.1	-0.2	0.0	0.0	1.8	2.8	0.0	3.2	-0.5	-0.3	-0.2	-0.3	
Oct	-1.7	1.1	-1.4	-1.0	1.3	1.7	0.4	0.0	0.0	2.5	3.6	0.1	4.0	-0.3	-0.2	-0.1	-0.1	
Nov	-1.4	1.1	-1.1	-0.7	1.4	1.8	0.8	0.0	0.0	2.7	3.9	0.1	4.2	-0.3	-0.2	-0.1	-0.1	
Dec	-2.4	0.4	-2.1	-1.8	0.6	0.9	-0.5	0.0	0.0	1.6	2.5	0.0	3.0	-0.4	-0.3	-0.2	-0.3	
Avg	-3.7	0.2	-3.7	-3.4	0.0	-0.1	-2.7	0.0	0.0	-0.5	0.2	-0.3	1.9	-0.4	-0.2	-0.2	-0.2	
Alt 6 Change in Salinity																		
Jan	-2.5	-2.5	-2.6	-2.6	-2.7	-2.7	-2.7	0.0	0.0	-3.4	-2.9	-4.2	-1.3	-4.4	-3.2	-3.2	-4.4	
Feb	-3.9	-4.0	-4.0	-4.0	-4.2	-4.3	-4.1	0.0	0.0	-5.0	-4.3	-6.4	-1.5	-6.6	-4.7	-4.8	-6.6	
Mar	-0.1	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	0.0	-2.9	-1.7	-0.7	-0.2	-0.7	-0.4	-0.3	-0.5	
Apr	-0.1	0.0	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	-2.9	-1.7	-0.7	-0.2	-0.7	-0.4	-0.3	-0.5	
May	-0.2	-0.1	-0.1	-0.1	-0.2	-0.3	-0.3	0.0	0.0	-3.7	-2.2	-0.9	0.0	-0.9	-0.5	-0.3	-0.7	
Jun	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	-3.3	-1.9	-0.8	-0.1	-0.8	-0.4	-0.3	-0.6	
Jul	-2.2	-2.2	-2.3	-2.3	-2.3	-2.4	-2.3	0.0	0.0	-3.1	-2.6	-3.8	-1.2	-4.0	-2.9	-2.9	-3.9	
Aug	-0.2	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	0.0	-0.8	-0.6	-0.7	-0.9	-0.8	-0.6	-0.6	-0.7	
Sep	-0.2	0.0	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	0.0	-0.7	-0.6	-0.6	-0.9	-0.8	-0.6	-0.6	-0.7	
Oct	0.5	0.6	0.4	0.4	0.6	0.5	0.4	0.0	0.0	0.0	0.2	-0.5	-0.1	-0.5	-0.3	-0.3	-0.4	
Nov	0.8	1.0	0.8	0.8	1.0	0.9	0.8	0.0	0.0	0.2	0.5	0.0	-0.1	0.1	0.1	0.1	0.2	
Dec	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	0.0	0.0	-1.0	-0.8	-1.0	-1.0	-1.2	-0.9	-0.8	-1.1	
Avg	-0.7	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	0.0	0.0	-2.2	-1.6	-1.7	-0.6	-1.8	-1.2	-1.2	-1.7	
Alt 7 Change in Salinity																		
Jan	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	0.0	0.0	-1.8	-1.3	-0.4	-0.6	-0.2	-0.1	-0.1	-0.1	
Feb	-0.4	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	0.0	0.0	-2.5	-1.6	-0.6	-0.5	-0.2	-0.1	-0.1	-0.1	
Mar	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4												

2025		E4 South	F2	F3 North	F3 South	G1 North	G1 South	G2	G3 East	G3 West	G5 North	G5 South	G6 Central	G6 Southeast	G6 West	G7 Catfish Lake	G7 Northwest	G7 Southeast	
Alt 1		Salinity																	
Jan	18.3	16.3	17.1	18.3	3.6	4.0	4.1	8.4	5.1	4.6	6.0	11.2	14.6	9.4	16.4	16.4	16.4	18.2	
Feb	15.7	14.2	14.8	15.6	3.5	3.8	3.7	7.4	4.5	4.2	5.6	9.9	12.6	8.2	14.1	14.1	14.2	15.5	
Mar	13.6	12.6	13.0	13.5	3.4	3.6	3.5	6.5	4.0	4.0	5.2	8.9	11.1	7.3	12.3	12.4	12.4	13.4	
Apr	13.7	12.7	13.1	13.7	3.4	3.6	3.5	6.6	4.0	4.0	5.2	9.0	11.2	7.3	12.4	12.5	12.5	13.5	
May	10.8	10.3	10.6	10.7	3.3	3.3	3.1	5.4	3.3	3.6	4.7	7.5	9.0	6.0	9.9	10.1	10.1	10.5	
Jun	12.3	11.5	11.9	12.2	3.3	3.5	3.3	6.0	3.7	3.8	4.9	8.3	10.1	6.7	11.2	11.3	11.3	12.0	
Jul	18.8	16.7	17.6	18.8	3.7	4.1	4.1	8.7	5.2	4.7	6.1	11.5	15.0	9.6	16.9	16.8	16.8	18.8	
Aug	22.6	19.8	20.9	22.6	3.9	4.5	4.6	10.2	6.1	5.2	6.8	13.3	17.7	11.3	20.2	20.0	20.0	22.6	
Sep	22.7	19.8	20.9	22.7	3.9	4.5	4.6	10.2	6.2	5.2	6.8	13.4	17.8	11.3	20.2	20.0	20.0	22.7	
Oct	22.8	19.6	20.8	22.8	3.8	4.4	4.5	9.5	5.7	5.0	6.7	12.6	17.3	10.6	20.0	19.8	19.8	22.7	
Nov	23.4	20.1	21.4	23.4	3.9	4.4	4.6	9.7	5.9	5.1	6.8	12.9	17.8	10.8	20.6	20.3	20.3	23.4	
Dec	22.2	19.4	20.5	22.2	3.8	4.4	4.6	10.0	6.0	5.1	6.8	13.1	17.4	11.1	19.8	19.6	19.6	22.2	
Avg	18.08	16.09	16.88	18.05	3.63	4.00	4.02	8.21	4.98	4.53	5.97	10.97	14.31	9.14	16.18	16.12	16.12	17.96	
Alt 2		Change in Salinity																	
Jan	0.2	0.8	0.1	-0.2	-0.2	0.0	-0.3	-1.3	-0.6	0.2	1.2	-2.3	-3.0	-2.6	-2.6	-2.5	-2.5	-1.5	
Feb	0.1	0.4	-0.2	-0.3	-0.4	-0.4	-0.9	-2.5	-1.4	-0.3	0.6	-3.8	-4.6	-3.6	-4.0	-3.8	-3.8	-2.4	
Mar	0.0	0.0	-0.5	-0.5	-0.7	-0.8	-1.3	-3.5	-2.0	-0.7	0.0	-5.0	-5.8	-4.4	-5.2	-4.8	-4.8	-3.0	
Apr	0.0	0.1	-0.5	-0.5	-0.7	-0.8	-1.3	-3.5	-2.0	-0.6	0.0	-4.9	-5.7	-4.3	-5.1	-4.8	-4.8	-3.0	
May	-0.1	-0.4	-0.9	-0.7	-1.0	-1.3	-1.9	-4.8	-2.9	-1.2	-0.7	-6.6	-7.5	-5.5	-6.7	-6.2	-6.2	-3.9	
Jun	0.0	-0.2	-0.7	-0.6	-0.8	-1.0	-1.6	-4.1	-2.4	-0.9	-0.3	-5.8	-6.6	-4.9	-5.9	-5.5	-5.5	-3.5	
Jul	0.2	0.9	0.2	-0.1	-0.1	0.1	-0.2	-1.1	-0.4	0.3	1.4	-2.0	-2.7	-2.4	-2.3	-2.2	-2.2	-1.4	
Aug	0.3	1.5	0.7	0.1	0.3	0.8	0.6	0.7	0.7	1.1	2.4	0.1	-0.5	-0.9	-0.3	-0.4	-0.4	-0.1	
Sep	0.3	1.5	0.7	0.1	0.3	0.8	0.6	0.7	0.7	1.1	2.4	0.2	-0.5	-0.9	-0.3	-0.3	-0.3	-0.1	
Oct	0.4	1.8	0.9	0.2	0.4	0.9	0.8	1.6	1.3	1.3	2.6	1.0	0.2	0.0	0.2	0.1	0.0	0.0	
Nov	0.4	1.9	1.0	0.3	0.4	1.0	0.9	1.9	1.5	1.4	2.8	1.4	0.5	0.2	0.5	0.4	0.4	0.2	
Dec	0.3	1.4	0.7	0.1	0.3	0.7	0.5	0.5	0.6	1.0	2.3	-0.1	-0.8	-1.1	-0.5	-0.6	-0.6	-0.3	
Avg	0.2	0.8	0.1	-0.2	-0.2	0.0	-0.4	-1.3	-0.6	0.2	1.2	-2.4	-3.1	-2.6	-2.7	-2.6	-2.6	-1.6	
Alt 3		Change in Salinity																	
Jan	0.2	0.8	0.1	-0.2	-0.2	0.0	-0.4	-1.4	-0.6	0.2	1.2	-2.4	-3.1	-2.6	-2.7	-2.6	-2.6	-1.6	
Feb	0.1	0.3	-0.3	-0.4	-0.5	-0.5	-0.9	-2.6	-1.4	-0.3	0.5	-3.9	-4.7	-3.6	-4.2	-3.9	-3.9	-2.5	
Mar	0.0	0.0	-0.5	-0.5	-0.7	-0.8	-1.3	-3.5	-2.0	-0.7	0.0	-5.0	-5.8	-4.4	-5.2	-4.8	-4.8	-3.0	
Apr	0.0	0.1	-0.5	-0.5	-0.7	-0.8	-1.3	-3.5	-2.0	-0.7	0.0	-4.9	-5.7	-4.3	-5.1	-4.8	-4.8	-3.0	
May	-0.1	-0.4	-0.9	-0.7	-1.0	-1.3	-1.9	-4.8	-2.9	-1.2	-0.7	-6.6	-7.5	-5.5	-6.7	-6.2	-6.2	-3.9	
Jun	0.0	-0.2	-0.7	-0.6	-0.8	-1.0	-1.6	-4.1	-2.4	-0.9	-0.3	-5.8	-6.6	-4.9	-5.9	-5.5	-5.5	-3.5	
Jul	0.2	0.8	0.2	-0.1	-0.1	0.1	-0.2	-1.1	-0.5	0.3	1.3	-2.1	-2.8	-2.4	-2.4	-2.3	-2.3	-1.4	
Aug	0.3	1.5	0.7	0.1	0.3	0.7	0.6	0.6	0.7	1.1	2.4	0.1	-0.5	-0.9	-0.3	-0.4	-0.4	-0.2	
Sep	0.3	1.5	0.7	0.1	0.3	0.7	0.6	0.7	0.7	1.1	2.4	0.1	-0.5	-0.9	-0.3	-0.4	-0.4	-0.2	
Oct	0.4	1.8	0.9	0.2	0.4	0.9	0.8	1.6	1.2	1.2	2.6	1.0	0.1	-0.1	0.1	0.0	0.0	0.0	
Nov	0.4	1.9	1.0	0.3	0.4	1.0	0.9	1.9	1.4	1.4	2.8	1.4	0.5	0.2	0.5	0.4	0.4	0.2	
Dec	0.3	1.4	0.6	0.1	0.3	0.7	0.5	0.4	0.6	1.0	2.2	-0.2	-0.8	-1.1	-0.6	-0.6	-0.6	-0.3	
Avg	0.2	0.8	0.1	-0.2	-0.2	0.0	-0.4	-1.3	-0.6	0.2	1.2	-2.4	-3.1	-2.6	-2.7	-2.6	-2.6	-1.6	
Alt 4		Change in Salinity																	
Jan	-0.1	-0.9	-2.0	-1.5	-1.2	-1.6	-2.1	-6.9	-3.5	-2.0	-2.2	-9.5	-12.4	-7.7	-12.2	-11.7	-11.7	-8.9	
Feb	-0.1	-0.8	-1.7	-1.3	-1.2	-1.6	-2.1	-6.2	-3.3	-1.8	-1.8	-8.5	-10.7	-7.0	-10.4	-9.9	-9.9	-7.4	
Mar	-0.1	-0.6	-1.4	-1.0	-1.2	-1.5	-2.1	-5.6	-3.1	-1.7	-1.5	-7.7	-9.4	-6.3	-9.0	-8.5	-8.5	-6.1	
Apr	-0.1	-0.7	-1.4	-1.1	-1.2	-1.5	-2.1	-5.6	-3.2	-1.7	-1.5	-7.8	-9.5	-6.4	-9.1	-8.6	-8.6	-6.2	
May	-0.1	-0.5	-1.0	-0.7	-1.1	-1.4	-2.1	-4.9	-2.9	-1.5	-0.8	-6.7	-7.7	-5.5	-7.0	-6.6	-6.6	-4.5	
Jun	-0.1	-0.6	-1.2	-0.9	-1.2	-1.5	-2.1	-5.3	-3.0	-1.6	-1.2	-7.3	-8.6	-6.0	-8.1	-7.6	-7.6	-5.4	
Jul	-0.1	-1.0	-2.1	-1.6	-1.2	-1.7	-2.0	-7.0	-3.6	-2.0	-2.2	-9.7	-12.7	-7.9	-12.6	-12.0	-12.0	-9.2	
Aug	-0.2	-1.2	-2.6	-2.0	-1.3	-1.8	-2.0	-8.0	-3.9	-2.3	-2.8	-11.1	-15.1	-9.0	-15.2	-14.6	-14.6	-11.4	
Sep	-0.2	-1.2	-2.6	-2.0	-1.3	-1.8	-2.0	-8.1	-3.9	-2.3	-2.8	-11.1	-15.1	-9.0	-15.2	-14.6	-14.6	-11.4	
Oct	-0.1	-0.9	-2.4	-1.9	-1.2	-1.7	-1.8	-7.3	-3.4	-2.2	-2.6	-10.4	-14.7	-8.3	-15.0	-14.4	-14.4	-11.4	
Nov	-0.1	-0.9	-2.5	-2.0	-1.3	-1.7	-1.8	-7.4	-3.5	-2.2	-2.7	-10.6	-15.0	-8.4	-15.4	-14.8	-14.8	-11.8	
Dec	-0.2	-1.1	-2.5	-1.9	-1.3	-1.8	-2.0	-7.9	-3.9	-2.3	-2.7	-10.9	-14.8	-8.9	-14.9	-14.3	-14.3	-11.2	
Avg	-0.1	-0.9	-2.0	-1.5	-1.2	-1.6	-2.0	-6.7	-3.4	-2.0	-2.1	-9.3	-12.2	-7.5	-12.0	-11.5	-11.5	-8.7	
Alt 5		Change in Salinity																	
Jan	-0.1	-0.9	-2.0	-1.5	-1.2	-1.6	-2.1	-6.9	-3.5	-2.0	-2.8	-9.5	-12.4	-7.7	-12.2	-11.7	-11.7	-8.9	
Feb	-0.1	-0.8	-1.7	-1.3	-1.2	-1.6	-2.1	-6.2	-3.3	-1.8	-2.1	-8.5	-10.7	-7.0	-10.4	-9.9	-9.9	-7.3	
Mar	-0.1	-0.6	-1.4	-1.0	-1.2	-1.5	-2.1	-5.6	-3.1	-1.7	-1.6	-7.8	-9.4	-6.3	-9.0	-8.5	-8.5	-6.1	
Apr	-0.1	-0.7	-1.4	-1.1	-1.2	-1.5	-2.1	-5.6	-3.2	-1.7	-1.6	-7.8	-9.5	-6.4	-9.1	-8.6	-8.6	-6.2	
May	-0.1	-0.5	-1.0	-0.7	-1.1	-1.4	-2.1	-4.9	-2.9	-1.5	-0.8	-6.7	-7.7	-5.5	-7.0	-6.6	-6.6	-4.5	
Jun	-0.1	-0.6	-1.2	-0.9	-1.2	-1.5	-2.1	-5.3	-3.0	-1.6	-1.2	-7.3	-8.6	-6.0	-8.1	-7.6	-7.6	-5.4	
Jul	-0.1	-0.9	-2.1	-1.6	-1.2	-1.7	-2.1	-7.0	-3.6	-2.0	-2.0	-9.7	-12.7	-7.9	-12.6	-12.0	-12.0	-9.2	
Aug	-0.2	-1.2	-2.6	-2.0	-1.3	-1.8	-2.0	-8.0	-3.9	-2.3	-2.8	-11.1	-15.1	-9.0	-15.2	-14.6	-14.6	-11.4	
Sep	-0.2	-1.2	-2.6	-2.0	-1.3	-1.8	-2.0	-8.1	-3.9	-2.3	-2.8	-11.1	-15.1	-9.0	-15.2	-14.6	-14.6	-11.4	
Oct	-0.1	-0.9	-2.4	-1.9	-1.2	-1.7	-1.9	-7.3	-3.5	-2.2	-3.8	-10.4	-14.7	-8.3	-15.0	-14.4	-14.4	-11.4	
Nov	-0.1	-0.9	-2.5	-2.0	-1.3	-1.7	-1.8	-7.4	-3.5	-2.2	-4.0	-10.6	-15.0	-8.4	-15.4	-14.8	-14.8	-11.7	
Dec	-0.2	-1.1	-2.5	-1.9	-1.3	-1.8	-2.0	-7.9	-3.9	-2.3	-3.8	-10.9	-14.8	-8.9	-14.9	-14.3	-14.3	-11.1	
Avg	-0.1	-0.9	-2.0	-1.5	-1.2	-1.6	-2.0	-6.7	-3.4	-2.0	-2.7	-9.3	-12.2	-7.5	-12.0	-11.5	-11.5	-8.7	
Alt 6		Change in Salinity																	
Jan	-4.3	-4.2	-4.2	-4.3	-1.3	-1.2	-1.1	-1.8	-1.3	-1.2	-1.6	-2.7	-3.6	-2.3	-4.3	-4.0	-4.0	-4.3	
Feb	-6.6	-6.3	-6.5	-6.5	-2.0	-1.9	-1.8	-3.1	-2.0	-2.0	-2.7	-4.4	-5.5	-3.6	-6.2	-6.1	-6.1	-6.4	
Mar	-0.3	-1.2	-0.9	-0.4	-0.6	-0.9	-1.3	-3.4	-2.2	-1.0	-1.1	-3.9	-3.8	-3.8	-2.8	-2.3	-2.3	-1.2	
Apr	-0.3	-1.2	-0.9	-0.4	-0.6	-0.9	-1.3	-3.3	-2.2	-1.0	-1.1	-3.8	-3.7	-3.7	-2.8	-2.3	-2.3	-1.1	
May	-0.4	-1.5	-1.2	-0.5	-0.8	-1.2	-1.8	-4.5	-2.9	-1.4	-1.5	-5.2	-4.9	-4.9	-3.5	-3.0	-3.0	-1.5	
Jun	-0.3	-1.3	-1.0	-0.4	-0.7	-1.1	-1.5	-3.9	-2.5	-1.2	-1.3	-4.5	-4.3	-4.3	-3.2	-2.6	-2.6	-1.3	
Jul	-3.9	-3.7	-3.8	-3.9	-1.1	-1.0	-0.9	-1.6	-1.2	-1.0	-1.4	-2.4	-3.3	-2.0	-3.9	-3.6	-3.6	-3.8	
Aug	-0.6	-0.6	-0.6	-0.6	-0.2	0.0	0.1	0.2	-0.2	0.2	0.1	0.1	-0.5	-0.1	-1.0	-0.5	-0.5	-0.7	
Sep	-0.6	-0.6	-0.6	-0.6	-0.1	0.1	0.1	0.2	-0.2	0.2	0.1	0.1	-0.5	-0.1	-1.0	-0.5	-0.5	-0.7	
Oct	-0.4	-0.2	-0.3	-0.4	-0.1	0.2	0.3	1.1	0.3	0.4	0.4	1.0	0.1	0.7	-0.6	0.0	0.0	-0.4	
Nov</																			

2025	H1	H2 Central	H2 East	H2 West	H3	HNC at Bayou Grand Caillou	HNC at Falgout Canal	HNC below Lock Complex	HNC North	HNC South	Lake Pagie North	Lake Pagie South	Lake Palourde	Lost Lake East	Lost Lake West	Palmetto Bayou	Palm-Creole	
Alt 1	Salinity																	
Jan	0.2	0.2	0.4	0.4	0.2	8.4	3.6	8.9	0.9	12.1	0.2	8.7	0.0	9.0	7.1	0.0	0.0	
Feb	0.2	0.2	0.3	0.2	0.1	5.7	2.4	6.1	0.6	8.6	0.1	5.7	0.0	5.9	4.8	0.0	0.0	
Mar	0.1	0.1	0.2	0.1	0.1	3.5	1.4	3.8	0.3	5.9	0.1	3.3	0.0	3.4	3.0	0.0	0.0	
Apr	0.1	0.1	0.2	0.1	0.1	3.6	1.4	3.9	0.3	6.1	0.1	3.5	0.0	3.6	3.2	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	0.0	2.2	0.0	0.1	0.0	0.1	0.6	0.0	0.0	
Jun	0.1	0.1	0.1	0.1	0.0	2.1	0.7	2.3	0.2	4.2	0.0	1.8	0.0	1.9	1.9	0.0	0.0	
Jul	0.2	0.2	0.4	0.4	0.2	9.0	3.9	9.5	0.9	12.8	0.2	9.3	0.0	9.6	7.6	0.0	0.0	
Aug	0.3	0.4	0.6	0.6	0.3	12.9	5.7	13.7	1.3	17.7	0.3	13.6	0.0	14.0	10.9	0.0	0.0	
Sep	0.3	0.4	0.6	0.6	0.3	13.0	5.7	13.8	1.3	17.8	0.3	13.7	0.0	14.1	10.9	0.0	0.0	
Oct	0.4	0.4	0.8	0.6	0.1	13.6	3.8	15.9	0.4	19.7	0.3	13.3	0.0	13.8	10.5	0.0	0.0	
Nov	0.4	0.4	0.8	0.6	0.1	14.3	4.0	16.6	0.4	20.5	0.3	14.0	0.0	14.5	11.0	0.0	0.0	
Dec	0.3	0.3	0.6	0.6	0.3	12.5	5.5	13.2	1.3	17.2	0.2	13.1	0.0	13.5	10.5	0.0	0.0	
Avg	0.22	0.23	0.42	0.35	0.14	8.26	3.17	9.03	0.66	12.07	0.16	8.35	0.00	8.61	6.83	0.00	0.01	
Alt 2	Change in Salinity																	
Jan	0.0	0.1	0.8	-0.1	-0.1	1.2	0.4	2.0	-0.7	1.9	-0.1	-3.6	0.0	-3.6	-2.3	0.0	0.0	
Feb	0.0	0.1	0.5	-0.1	-0.1	0.8	0.3	1.4	-0.5	1.5	0.0	-2.4	0.0	-2.4	-1.7	0.0	0.0	
Mar	0.0	0.1	0.3	0.0	0.0	0.4	0.2	0.9	-0.3	1.3	0.0	-1.4	0.0	-1.4	-1.2	0.0	0.0	
Apr	0.0	0.1	0.3	0.0	0.0	0.4	0.2	0.9	-0.3	1.3	0.0	-1.5	0.0	-1.5	-1.2	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.3	0.0	0.9	0.0	-0.1	0.0	-0.1	-0.5	0.0	0.0	
Jun	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.6	-0.1	1.1	0.0	-0.8	0.0	-0.8	-0.9	0.0	0.0	
Jul	0.0	0.2	0.9	-0.1	-0.1	1.3	0.4	2.1	-0.8	1.9	-0.1	-3.8	0.0	-3.9	-2.4	0.0	0.0	
Aug	0.0	0.2	1.3	-0.2	-0.2	1.9	0.6	3.0	-1.1	2.4	-0.1	-5.6	0.0	-5.6	-3.3	0.0	0.0	
Sep	0.0	0.2	1.3	-0.2	-0.2	1.9	0.6	3.0	-1.1	2.4	-0.1	-5.6	0.0	-5.6	-3.3	0.0	0.0	
Oct	0.0	0.2	1.2	-0.1	0.0	1.4	2.7	1.1	-0.2	0.7	-0.1	-5.2	0.0	-5.2	-2.8	0.0	0.0	
Nov	0.0	0.2	1.2	-0.2	0.0	1.5	2.8	1.2	-0.2	0.8	-0.1	-5.4	0.0	-5.5	-2.9	0.0	0.0	
Dec	0.0	0.2	1.3	-0.2	-0.2	1.8	0.6	2.9	-1.1	2.3	-0.1	-5.4	0.0	-5.4	-3.2	0.0	0.0	
Avg	0.0	0.1	0.8	-0.1	-0.1	1.1	0.7	1.6	-0.5	1.5	-0.1	-3.4	0.0	-3.4	-2.1	0.0	0.0	
Alt 3	Change in Salinity																	
Jan	0.0	0.1	0.8	-0.1	-0.1	1.1	0.3	1.9	-0.7	1.8	-0.1	-3.6	0.0	-3.6	-2.3	0.0	0.0	
Feb	0.0	0.1	0.5	-0.1	-0.1	0.7	0.2	1.3	-0.5	1.4	-0.1	-2.4	0.0	-2.4	-1.7	0.0	0.0	
Mar	0.0	0.0	0.3	0.0	0.0	0.4	0.1	0.9	-0.3	1.3	0.0	-1.4	0.0	-1.4	-1.2	0.0	0.0	
Apr	0.0	0.0	0.3	0.0	0.0	0.4	0.1	0.9	-0.3	1.3	0.0	-1.5	0.0	-1.5	-1.2	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.3	0.0	0.9	0.0	-0.1	0.0	-0.1	-0.5	0.0	0.0	
Jun	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.6	-0.1	1.1	0.0	-0.8	0.0	-0.8	-0.9	0.0	0.0	
Jul	0.0	0.1	0.9	-0.1	-0.1	1.2	0.4	2.1	-0.8	1.9	-0.1	-3.9	0.0	-3.9	-2.4	0.0	0.0	
Aug	0.0	0.2	1.3	-0.2	-0.2	1.9	0.5	2.9	-1.1	2.4	-0.1	-5.6	0.0	-5.7	-3.3	0.0	0.0	
Sep	0.0	0.2	1.3	-0.2	-0.2	1.9	0.5	3.0	-1.1	2.4	-0.1	-5.6	0.0	-5.7	-3.3	0.0	0.0	
Oct	0.0	0.2	1.1	-0.2	0.0	1.4	2.6	1.1	-0.2	0.7	-0.1	-5.2	0.0	-5.3	-2.8	0.0	0.0	
Nov	0.0	0.2	1.2	-0.2	0.0	1.5	2.7	1.1	-0.2	0.7	-0.1	-5.5	0.0	-5.5	-2.9	0.0	0.0	
Dec	0.0	0.2	1.2	-0.2	-0.2	1.8	0.5	2.8	-1.1	2.3	-0.1	-5.4	0.0	-5.5	-3.2	0.0	0.0	
Avg	0.0	0.1	0.7	-0.1	-0.1	1.0	0.7	1.6	-0.5	1.5	-0.1	-3.4	0.0	-3.4	-2.1	0.0	0.0	
Alt 4	Change in Salinity																	
Jan	0.2	0.3	0.0	0.2	-0.1	2.7	3.3	3.3	0.6	2.6	-0.1	-3.0	0.0	-3.0	-1.8	0.0	0.0	
Feb	0.1	0.2	0.0	0.1	-0.1	1.8	2.2	2.3	0.4	2.0	0.0	-2.0	0.0	-2.0	-1.4	0.0	0.0	
Mar	0.1	0.1	0.0	0.1	0.0	1.0	1.2	1.4	0.2	1.6	0.0	-1.2	0.0	-1.2	-1.0	0.0	0.0	
Apr	0.1	0.1	0.0	0.1	0.0	1.0	1.3	1.5	0.2	1.6	0.0	-1.2	0.0	-1.2	-1.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.3	0.0	1.0	0.0	-0.1	0.0	-0.1	-0.5	0.0	0.0	
Jun	0.0	0.1	0.0	0.0	0.0	0.5	0.7	0.9	0.1	1.3	0.0	-0.7	0.0	-0.7	-0.8	0.0	0.0	
Jul	0.2	0.3	0.0	0.2	-0.1	2.9	3.5	3.5	0.7	2.7	-0.1	-3.2	0.0	-3.2	-1.9	0.0	0.0	
Aug	0.3	0.5	0.1	0.3	-0.1	4.4	5.2	5.1	1.0	3.6	-0.1	-4.6	0.0	-4.6	-2.6	0.0	0.0	
Sep	0.3	0.5	0.1	0.3	-0.1	4.4	5.2	5.1	1.0	3.6	-0.1	-4.6	0.0	-4.6	-2.6	0.0	0.0	
Oct	0.3	0.5	-0.1	0.4	0.0	3.9	7.3	3.2	2.0	1.9	-0.1	-4.2	0.0	-4.2	-2.1	0.0	0.0	
Nov	0.3	0.5	-0.1	0.4	0.0	4.1	7.7	3.4	2.1	2.0	-0.1	-4.4	0.0	-4.4	-2.2	0.0	0.0	
Dec	0.2	0.5	0.1	0.3	-0.1	4.2	5.0	4.9	0.9	3.5	-0.1	-4.4	0.0	-4.5	-2.5	0.0	0.0	
Avg	0.2	0.3	0.0	0.2	-0.1	2.6	3.6	2.9	0.8	2.3	-0.1	-2.8	0.0	-2.8	-1.7	0.0	0.0	
Alt 5	Change in Salinity																	
Jan	0.2	0.3	0.0	0.2	-0.1	2.7	3.2	3.3	0.4	2.5	-0.1	-3.0	0.0	-3.0	-1.9	0.0	0.0	
Feb	0.1	0.2	0.0	0.1	-0.1	1.7	2.1	2.2	0.3	1.9	0.0	-2.0	0.0	-2.0	-1.4	0.0	0.0	
Mar	0.1	0.1	0.0	0.1	0.0	1.0	1.2	1.4	0.2	1.6	0.0	-1.2	0.0	-1.2	-1.0	0.0	0.0	
Apr	0.1	0.1	0.0	0.1	0.0	1.0	1.3	1.5	0.2	1.6	0.0	-1.2	0.0	-1.3	-1.1	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.3	0.0	1.0	0.0	-0.1	0.0	-0.1	-0.5	0.0	0.0	
Jun	0.0	0.1	0.0	0.0	0.0	0.5	0.7	0.9	0.1	1.3	0.0	-0.7	0.0	-0.7	-0.8	0.0	0.0	
Jul	0.2	0.3	0.0	0.2	-0.1	2.9	3.5	3.5	0.5	2.7	-0.1	-3.2	0.0	-3.2	-2.0	0.0	0.0	
Aug	0.3	0.5	0.1	0.3	-0.1	4.3	5.1	5.0	0.7	3.5	-0.1	-4.7	0.0	-4.7	-2.6	0.0	0.0	
Sep	0.3	0.5	0.1	0.3	-0.1	4.3	5.1	5.0	0.7	3.5	-0.1	-4.7	0.0	-4.7	-2.6	0.0	0.0	
Oct	0.3	0.5	-0.1	0.4	0.0	3.9	7.2	3.2	1.7	1.9	-0.1	-4.2	0.0	-4.3	-2.2	0.0	0.0	
Nov	0.3	0.5	-0.1	0.4	0.0	4.1	7.5	3.3	1.8	2.0	-0.1	-4.5	0.0	-4.5	-2.2	0.0	0.0	
Dec	0.2	0.5	0.1	0.3	-0.1	4.1	4.9	4.8	0.7	3.4	-0.1	-4.5	0.0	-4.5	-2.6	0.0	0.0	
Avg	0.2	0.3	0.0	0.2	-0.1	2.5	3.5	2.9	0.6	2.2	-0.1	-2.8	0.0	-2.9	-1.7	0.0	0.0	
Alt 6	Change in Salinity																	
Jan	0.0	0.0	0.3	-0.1	-0.1	0.2	-1.4	1.0	-0.7	0.1	0.0	-0.3	0.0	-0.3	-0.2	0.0	0.0	
Feb	0.0	0.0	0.2	-0.1	-0.1	-0.1	-0.9	0.4	-0.5	-0.7	0.0	-0.2	0.0	-0.2	-0.3	0.0	0.0	
Mar	0.0	0.0	0.1	0.0	0.0	0.0	-0.5	0.7	-0.3	1.3	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	
Apr	0.0	0.0	0.1	0.0	0.0	0.0	-0.6	0.7	-0.3	1.3	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.3	0.0	1.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	
Jun	0.0	0.0	0.1	0.0	0.0	-0.1	-0.3	0.5	-0.1	1.2	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	
Jul	0.0	0.0	0.3	-0.1	-0.1	0.2	-1.5	1.1	-0.8	0.3	0.0	-0.3	0.0	-0.3	-0.2	0.0	0.0	
Aug	0.0	0.0	0.5	-0.1	-0.2	0.5	-2.2	1.9	-1.1	1.5	0.0	-0.4	0.0	-0.4	0.0	0.0	0.0	
Sep	0.0	0.0	0.5	-0.1	-0.2	0.5	-2.2	1.9	-1.1	1.5	0.0	-0.4	0.0	-0.4	0.0	0.0	0.0	
Oct	0.0	0.0	0.4	-0.1	0.0	0.0	-0.3	0.0	-0.2	-0.1	0.0	0.1	0.0	0.1	0.6	0.0	0.0	
Nov	0.0	0.0	0.4	-0.1	0.0	0.1	-0.3	0.0	-0.2	0.0	0.0	0.1	0.0	0.1	0.6	0.0	0.0	
Dec	0.0	0.0	0.5	-0.1	-0.2	0.5	-2.2	1.8	-1.1	1.4	0.0	-0.4	0.0	-0.4	0.0	0.0	0.0	
Avg	0.0	0.0	0.3	-0.1	-0.1	0.1	-1.0	0.8	-0.5	0.7	0.0	-0.2	0.0	-0.2	0.0	0.0	0.0	
Alt 7	Change in Salinity																	
Jan	0.0	0.																

2025	A6,A7, Lpage	B6,B7,C 11-14	C2-C7	E2-E4	G1&G5	G2,G3, G6	A3	B2	D3	F3	G7	H2	Lost Lake	B6,B7	C11- C14
Alt 1	Salinity														
Jan	3.0	12.3	7.0	15.1	4.6	8.8	0.1	0.7	15.5	17.7	17.0	0.3	8.0	11.1	13.5
Feb	2.0	9.5	6.9	12.7	4.3	7.7	0.0	0.5	13.1	15.2	14.6	0.2	5.4	8.6	10.3
Mar	1.2	7.2	6.8	10.8	4.0	6.9	0.0	0.3	11.1	13.3	12.7	0.1	3.2	6.7	7.8
Apr	1.2	7.4	6.8	11.0	4.1	6.9	0.0	0.3	11.2	13.4	12.8	0.1	3.4	6.8	8.0
May	0.0	4.2	6.7	8.3	3.7	5.7	0.0	0.0	8.4	10.6	10.1	0.0	0.4	4.0	4.5
Jun	0.6	5.8	6.7	9.6	3.9	6.3	0.0	0.2	9.8	12.0	11.5	0.1	1.9	5.4	6.3
Jul	3.3	12.9	7.0	15.6	4.6	9.0	0.1	0.8	16.1	18.2	17.5	0.4	8.6	11.6	14.1
Aug	4.8	16.9	7.2	19.0	5.1	10.6	0.1	1.1	19.6	21.8	20.9	0.5	12.4	15.2	18.6
Sep	4.8	17.0	7.2	19.1	5.1	10.6	0.1	1.1	19.7	21.8	21.0	0.5	12.5	15.3	18.7
Oct	4.6	17.6	6.6	19.0	5.0	10.0	0.1	0.4	19.4	21.8	20.9	0.6	12.1	15.3	19.8
Nov	4.8	18.3	6.6	19.5	5.1	10.3	0.1	0.4	20.1	22.4	21.4	0.6	12.8	16.0	20.6
Dec	4.6	16.5	7.2	18.6	5.0	10.4	0.1	1.1	19.2	21.3	20.5	0.5	12.0	14.8	18.1
Avg	2.90	12.13	6.88	14.87	4.53	8.61	0.05	0.58	15.27	17.46	16.75	0.33	7.72	10.91	13.35
Alt 2	Change in Salinity														
Jan	-1.1	0.3	-3.0	0.1	0.3	-1.7	0.0	-0.5	-0.9	0.0	-2.2	0.3	-2.9	-0.4	1.1
Feb	-0.7	-0.2	-3.3	0.0	-0.1	-2.8	0.0	-0.3	-1.7	-0.3	-3.4	0.2	-2.0	-1.1	0.8
Mar	-0.4	-0.6	-3.5	-0.1	-0.5	-3.7	0.0	-0.2	-2.3	-0.5	-4.3	0.1	-1.3	-1.7	0.6
Apr	-0.4	-0.5	-3.5	-0.1	-0.5	-3.6	0.0	-0.2	-2.2	-0.5	-4.3	0.1	-1.4	-1.7	0.6
May	0.0	-1.1	-3.8	-0.2	-1.1	-4.9	0.0	0.0	-3.1	-0.8	-5.6	0.0	-0.3	-2.5	0.3
Jun	-0.2	-0.8	-3.7	-0.1	-0.8	-4.2	0.0	-0.1	-2.7	-0.6	-4.9	0.1	-0.8	-2.1	0.5
Jul	-1.1	0.4	-2.9	0.1	0.4	-1.5	0.0	-0.5	-0.7	0.0	-2.0	0.3	-3.1	-0.3	1.1
Aug	-1.7	1.1	-2.5	0.3	1.1	0.1	0.0	-0.8	0.4	0.4	-0.3	0.5	-4.4	0.7	1.5
Sep	-1.7	1.1	-2.5	0.3	1.1	0.1	0.0	-0.8	0.4	0.4	-0.3	0.5	-4.5	0.7	1.5
Oct	-1.4	0.7	-1.9	0.5	1.3	0.8	0.0	-0.1	0.9	0.6	0.1	0.4	-4.0	0.9	0.6
Nov	-1.5	0.8	-1.8	0.6	1.4	1.1	0.0	-0.1	1.0	0.7	0.4	0.4	-4.2	0.9	0.6
Dec	-1.6	1.1	-2.6	0.3	1.0	-0.1	0.0	-0.7	0.3	0.4	-0.5	0.4	-4.3	0.6	1.5
Avg	-1.0	0.2	-2.9	0.1	0.3	-1.7	0.0	-0.4	-0.9	0.0	-2.3	0.3	-2.8	-0.5	0.9
Alt 3	Change in Salinity														
Jan	-1.1	0.3	-3.0	0.1	0.3	-1.8	0.0	-0.5	-0.9	0.0	-2.3	0.3	-3.0	-0.5	1.0
Feb	-0.7	-0.2	-3.3	0.0	-0.2	-2.9	0.0	-0.3	-1.7	-0.3	-3.5	0.2	-2.0	-1.2	0.8
Mar	-0.4	-0.6	-3.5	-0.1	-0.5	-3.7	0.0	-0.2	-2.3	-0.5	-4.3	0.1	-1.3	-1.7	0.6
Apr	-0.4	-0.5	-3.5	-0.1	-0.5	-3.6	0.0	-0.2	-2.2	-0.5	-4.3	0.1	-1.4	-1.7	0.6
May	0.0	-1.1	-3.8	-0.2	-1.1	-4.9	0.0	0.0	-3.1	-0.8	-5.6	0.0	-0.3	-2.5	0.3
Jun	-0.2	-0.8	-3.7	-0.1	-0.8	-4.2	0.0	-0.1	-2.7	-0.6	-4.9	0.0	-0.9	-2.1	0.5
Jul	-1.1	0.4	-3.0	0.1	0.4	-1.5	0.0	-0.5	-0.8	0.0	-2.1	0.3	-3.2	-0.4	1.1
Aug	-1.7	1.1	-2.6	0.3	1.1	0.1	0.0	-0.8	0.4	0.4	-0.3	0.4	-4.5	0.7	1.5
Sep	-1.7	1.1	-2.5	0.3	1.1	0.1	0.0	-0.8	0.4	0.4	-0.3	0.4	-4.5	0.7	1.5
Oct	-1.4	0.7	-2.0	0.5	1.3	0.8	0.0	-0.1	0.9	0.6	0.1	0.4	-4.0	0.8	0.6
Nov	-1.5	0.8	-1.9	0.6	1.4	1.0	0.0	-0.1	1.0	0.6	0.4	0.4	-4.2	0.9	0.6
Dec	-1.6	1.0	-2.6	0.3	1.0	-0.1	0.0	-0.8	0.2	0.4	-0.5	0.4	-4.3	0.6	1.5
Avg	-1.0	0.2	-2.9	0.1	0.3	-1.7	0.0	-0.4	-0.9	0.0	-2.3	0.2	-2.8	-0.5	0.9
Alt 4	Change in Salinity														
Jan	-0.5	1.0	-1.8	0.1	-1.8	-7.0	0.0	0.3	-0.1	-1.8	-10.9	0.2	-2.4	0.2	1.8
Feb	-0.3	0.3	-2.5	0.0	-1.6	-6.3	0.0	0.2	-1.2	-1.5	-9.2	0.1	-1.7	-0.7	1.3
Mar	-0.2	-0.3	-3.1	-0.1	-1.5	-5.7	0.0	0.1	-2.0	-1.2	-7.9	0.1	-1.1	-1.5	0.9
Apr	-0.2	-0.2	-3.0	-0.1	-1.5	-5.8	0.0	0.1	-1.9	-1.2	-8.0	0.1	-1.1	-1.4	0.9
May	0.0	-1.1	-3.8	-0.2	-1.3	-5.0	0.0	0.0	-3.1	-0.9	-6.1	0.0	-0.3	-2.5	0.3
Jun	-0.1	-0.7	-3.4	-0.1	-1.4	-5.4	0.0	0.1	-2.5	-1.1	-7.0	0.0	-0.7	-1.9	0.6
Jul	-0.5	1.2	-1.7	0.1	-1.8	-7.2	0.0	0.3	0.1	-1.8	-11.3	0.2	-2.6	0.4	1.9
Aug	-0.8	2.2	-0.7	0.3	-2.0	-8.2	0.0	0.5	1.6	-2.3	-13.7	0.3	-3.6	1.8	2.6
Sep	-0.8	2.2	-0.7	0.3	-2.0	-8.2	0.0	0.5	1.6	-2.3	-13.8	0.3	-3.6	1.8	2.7
Oct	-0.5	1.8	-0.1	0.5	-1.9	-7.6	0.0	1.2	2.1	-2.2	-13.6	0.3	-3.2	1.9	1.7
Nov	-0.5	1.9	0.1	0.6	-2.0	-7.8	0.0	1.3	2.2	-2.2	-14.0	0.3	-3.3	2.1	1.8
Dec	-0.8	2.1	-0.8	0.3	-2.0	-8.1	0.0	0.5	1.4	-2.2	-13.4	0.3	-3.5	1.6	2.6
Avg	-0.4	0.9	-1.8	0.1	-1.7	-6.9	0.0	0.4	-0.2	-1.7	-10.7	0.2	-2.3	0.2	1.6
Alt 5	Change in Salinity														
Jan	-0.5	1.0	-1.9	0.1	-1.9	-7.0	0.0	0.2	-0.2	-1.8	-10.9	0.2	-2.4	0.2	1.7
Feb	-0.4	0.2	-2.6	0.0	-1.7	-6.3	0.0	0.1	-1.2	-1.5	-9.2	0.1	-1.7	-0.8	1.2
Mar	-0.2	-0.3	-3.1	-0.1	-1.5	-5.7	0.0	0.1	-2.0	-1.2	-7.9	0.1	-1.1	-1.5	0.9
Apr	-0.2	-0.3	-3.1	-0.1	-1.5	-5.8	0.0	0.1	-1.9	-1.2	-8.0	0.1	-1.2	-1.4	0.9
May	0.0	-1.1	-3.8	-0.2	-1.2	-5.0	0.0	0.0	-3.1	-0.9	-6.1	0.0	-0.3	-2.5	0.3
Jun	-0.1	-0.7	-3.4	-0.1	-1.4	-5.4	0.0	0.0	-2.5	-1.1	-7.0	0.0	-0.7	-1.9	0.6
Jul	-0.6	1.1	-1.8	0.1	-2.0	-7.2	0.0	0.2	0.0	-1.8	-11.3	0.2	-2.6	0.4	1.9
Aug	-0.8	2.2	-0.8	0.3	-2.3	-8.2	0.0	0.3	1.5	-2.3	-13.7	0.3	-3.7	1.7	2.6
Sep	-0.8	2.2	-0.8	0.3	-2.3	-8.2	0.0	0.3	1.5	-2.3	-13.7	0.3	-3.7	1.8	2.6
Oct	-0.5	1.8	-0.2	0.5	-2.2	-7.7	0.0	1.0	2.1	-2.2	-13.6	0.2	-3.2	1.9	1.7
Nov	-0.6	1.9	0.0	0.6	-2.3	-7.8	0.0	1.1	2.2	-2.2	-14.0	0.3	-3.4	2.0	1.8
Dec	-0.8	2.1	-0.9	0.3	-2.3	-8.1	0.0	0.3	1.4	-2.2	-13.4	0.3	-3.5	1.6	2.5
Avg	-0.5	0.8	-1.8	0.1	-1.9	-6.9	0.0	0.3	-0.2	-1.7	-10.7	0.2	-2.3	0.1	1.6
Alt 6	Change in Salinity														
Jan	-0.2	-1.3	-2.5	-3.5	-1.3	-2.1	0.0	-0.5	-3.5	-4.3	-4.2	0.1	-0.2	-1.4	-1.2
Feb	-0.1	-2.3	-4.0	-5.1	-2.2	-3.4	0.0	-0.4	-5.2	-6.5	-6.3	0.0	-0.3	-2.3	-2.4
Mar	-0.1	-0.4	-0.1	-0.4	-0.9	-3.1	0.0	-0.2	-1.8	-0.6	-2.1	0.0	-0.1	-1.4	0.5
Apr	-0.1	-0.4	-0.1	-0.4	-0.9	-3.0	0.0	-0.2	-1.8	-0.6	-2.1	0.0	-0.1	-1.3	0.5
May	0.0	-0.8	-0.2	-0.5	-1.3	-4.0	0.0	0.0	-2.3	-0.9	-2.7	0.0	0.0	-1.9	0.4
Jun	0.0	-0.6	-0.1	-0.4	-1.1	-3.5	0.0	-0.1	-2.0	-0.7	-2.4	0.0	-0.1	-1.6	0.4
Jul	-0.2	-1.1	-2.2	-3.1	-1.2	-1.9	0.0	-0.6	-3.2	-3.8	-3.8	0.1	-0.2	-1.2	-1.0
Aug	-0.3	0.4	-0.1	-0.7	0.0	-0.1	0.0	-0.8	-0.7	-0.6	-0.8	0.1	-0.2	0.1	0.7
Sep	-0.3	0.4	-0.1	-0.7	0.1	-0.1	0.0	-0.8	-0.7	-0.6	-0.7	0.1	-0.2	0.2	0.7
Oct	0.0	0.0	0.5	-0.3	0.2	0.6	0.0	-0.1	-0.1	-0.3	-0.3	0.1	0.3	0.3	-0.2
Nov	0.0	0.2	0.9	0.1	0.4	0.9	0.0	-0.1	0.2	0.2	0.2	0.1	0.4	0.4	0.0
Dec	-0.3	0.2	-0.4	-1.0	-0.1	-0.3	0.0	-0.8	-1.0	-1.0	-1.1	0.1	-0.2	0.0	0.5
Avg	-0.1	-0.5	-0.7	-1.3	-0.7	-1.7	0.0	-0.4	-1.8	-1.7	-2.2	0.1	-0.1	-0.8	-0.1
Alt 7	Change in Salinity														
Jan	-0.2	0.0	-0.4	-0.2	-0.1	-0.4	0.0	-0.4	-1.1	-0.1	-0.2	0.0	-0.3	-0.8	0.7
Feb	-0.1	-0.3	-0.4	-0.2	-0.1	-0.4	0.0	-0.3	-1.5	-0.1	-0.1	0.0	-0.2	-1.2	0.6
Mar	-0.1	-0.5	-0.3	-0.1	-0.2	-0.3	0.0	-0.2	-1.9	-0.1	-0.1	0.0	-0.1	-1.5	0.5
Apr	-0.1	-0.5	-0.3	-0.2	-0.2	-0.3	0.0	-0.2	-1.8	-0.1	-0.1	0.0	-0.2	-1.5	0.5
May	0.0	-0.8	-0.2	-0.1	-0.2	-0.2	0.0	0.0	-2.3	-0.1	0.0	0.0	0.0	-1.9	0.3
Jun	0.0	-0.6	-0.3	-0.1	-0.2	-0.2	0.0	-0.1	-2.1	-0.1	-0.1	0.0	-0.1	-1.7	0.4
Jul	-0.2	0.0	-0.5	-0.2	-0.1	-0.5	0.0	-0.5	-1.1	-0.1	-0.2	0.0	-0.3	-0.7	0.7
Aug	-0.3	0.4	-0.6	-0.2	-0.1	-0.6	0.0	-0.7	-0.5	-0.1	-0.3	0.0	-0.5	-0.1	0.9
Sep	-0.3	0.4	-0.6	-0.2	-0.1	-0.6	0.0	-0.7	-0.5	-0.1	-0.3	0.0	-0.5	-0.1	0.9
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec	-0.3	0.4	-0.5	-0.2	-0.1	-0.6									

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Table L2-22 - Salinity change summary for 2065

2065	A1	A3 North	A3 South	A4	A5	A6 East	A6 West	A7	A8	A9	Avoca Island	B2 North	B2 South	B3	B5	B6 North	B6 South
Alt 1 Salinity																	
Jan	0.0	0.0	0.1	0.0	0.7	1.0	1.2	3.6	3.2	0.9	0.0	0.3	0.5	1.0	2.8	8.3	10.3
Feb	0.0	0.0	0.0	0.0	0.5	0.6	0.8	2.3	2.1	0.6	0.0	0.2	0.3	0.6	1.8	6.7	7.7
Mar	0.0	0.0	0.0	0.0	0.4	0.4	0.4	1.3	1.2	0.3	0.0	0.1	0.2	0.4	1.1	5.5	5.7
Apr	0.0	0.0	0.0	0.0	0.4	0.4	0.5	1.4	1.2	0.3	0.0	0.1	0.2	0.4	1.1	5.6	5.8
May	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.9
Jun	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.7	0.6	0.2	0.0	0.1	0.1	0.2	0.6	4.7	4.4
Jul	0.0	0.0	0.1	0.0	0.7	1.0	1.3	3.8	3.4	0.9	0.0	0.3	0.5	1.0	3.0	8.7	10.8
Aug	0.0	0.0	0.1	0.1	0.9	1.5	1.9	5.6	5.0	1.4	0.0	0.4	0.8	1.5	4.4	10.9	14.5
Sep	0.0	0.0	0.1	0.1	0.9	1.5	1.9	5.6	5.0	1.4	0.0	0.4	0.8	1.5	4.4	11.0	14.5
Oct	0.0	0.1	0.1	0.1	0.6	1.2	1.8	5.3	4.8	1.1	0.0	0.3	0.5	0.9	3.4	9.9	14.5
Nov	0.1	0.1	0.1	0.1	0.6	1.2	1.9	5.6	4.8	1.1	0.0	0.3	0.5	0.9	3.5	10.3	15.2
Dec	0.0	0.0	0.1	0.1	0.9	1.4	1.8	5.4	4.8	1.3	0.0	0.4	0.7	1.4	4.2	10.7	14.1
Avg	0.03	0.03	0.06	0.04	0.60	0.86	1.14	3.40	2.98	0.79	0.01	0.23	0.43	0.82	2.51	8.00	10.03
Alt 2 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	0.3	1.3	-0.8	-2.2	-1.7	0.9	0.0	-0.1	0.0	0.5	1.3	-0.9	-0.2
Feb	0.0	0.0	0.0	0.0	0.2	0.9	-0.5	-1.4	-1.1	0.6	0.0	-0.1	0.0	0.3	0.9	-1.5	-0.9
Mar	0.0	0.0	0.0	0.0	0.1	0.5	-0.3	-0.8	-0.6	0.3	0.0	0.0	0.0	0.2	0.5	-2.0	-1.4
Apr	0.0	0.0	0.0	0.0	0.1	0.5	-0.3	-0.9	-0.7	0.3	0.0	0.0	0.0	0.2	0.5	-2.0	-1.4
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.7	-2.1
Jun	0.0	0.0	0.0	0.0	0.1	0.3	-0.2	-0.4	-0.3	0.2	0.0	0.0	0.0	0.1	0.3	-2.3	-1.7
Jul	0.0	0.0	0.0	0.0	0.3	1.4	-0.9	-2.3	-1.8	0.9	0.0	-0.1	0.0	0.5	1.4	-0.8	-0.1
Aug	0.0	0.0	0.0	0.0	0.5	2.1	-1.3	-3.4	-2.8	1.4	0.0	-0.1	-0.1	0.7	2.1	0.1	0.9
Sep	0.0	0.0	0.0	0.0	0.5	2.1	-1.3	-3.4	-2.6	1.4	0.0	-0.1	-0.1	0.7	2.1	0.1	0.9
Oct	0.0	0.0	0.0	0.0	0.8	2.5	-1.2	-3.0	-2.2	1.7	0.0	0.0	0.3	1.4	3.2	1.3	1.0
Nov	0.0	0.0	0.0	0.0	0.8	2.6	-1.3	-3.2	-2.3	1.8	0.0	0.0	0.3	1.5	3.4	1.4	1.1
Dec	0.0	0.0	0.0	0.0	0.4	2.0	-1.2	-3.3	-2.5	1.3	0.0	-0.1	-0.1	0.7	2.0	0.0	0.8
Avg	0.0	0.0	0.0	0.0	0.3	1.3	-0.8	-2.0	-1.5	0.9	0.0	-0.1	0.0	0.6	1.5	-0.8	-0.3
Alt 3 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	0.3	1.3	-0.8	-2.2	-1.7	0.9	0.0	-0.1	-0.1	0.4	1.3	-1.0	-0.4
Feb	0.0	0.0	0.0	0.0	0.2	0.8	-0.5	-1.4	-1.1	0.6	0.0	0.0	0.0	0.3	0.8	-1.7	-1.1
Mar	0.0	0.0	0.0	0.0	0.1	0.5	-0.3	-0.8	-0.6	0.3	0.0	0.0	0.0	0.2	0.5	-2.0	-1.4
Apr	0.0	0.0	0.0	0.0	0.1	0.5	-0.3	-0.9	-0.7	0.3	0.0	0.0	0.0	0.2	0.5	-2.0	-1.4
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.7	-2.1
Jun	0.0	0.0	0.0	0.0	0.1	0.3	-0.2	-0.4	-0.3	0.2	0.0	0.0	0.0	0.1	0.3	-2.3	-1.7
Jul	0.0	0.0	0.0	0.0	0.3	1.4	-0.9	-2.4	-1.8	0.9	0.0	-0.1	-0.1	0.4	1.3	-0.9	-0.2
Aug	0.0	0.0	0.0	0.0	0.5	2.0	-1.3	-3.5	-2.7	1.4	0.0	-0.1	-0.1	0.6	2.0	0.1	0.8
Sep	0.0	0.0	0.0	0.0	0.5	2.1	-1.3	-3.5	-2.7	1.4	0.0	-0.1	-0.1	0.6	2.0	0.1	0.8
Oct	0.0	0.0	0.0	0.0	0.8	2.4	-1.2	-3.1	-2.2	1.7	0.0	0.0	0.2	1.3	3.1	1.3	1.0
Nov	0.0	0.0	0.0	0.0	0.8	2.6	-1.3	-3.3	-2.3	1.8	0.0	0.0	0.2	1.4	3.2	1.4	1.1
Dec	0.0	0.0	0.0	0.0	0.4	2.0	-1.3	-3.3	-2.6	1.3	0.0	-0.1	-0.1	0.6	1.9	-0.1	0.7
Avg	0.0	0.0	0.0	0.0	0.3	1.3	-0.8	-2.1	-1.6	0.9	0.0	-0.1	0.0	0.5	1.4	-0.8	-0.3
Alt 4 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	0.5	2.0	-0.7	-1.8	-1.3	1.2	0.0	0.1	0.9	1.3	3.2	-0.4	0.5
Feb	0.0	0.0	0.0	0.0	0.4	1.3	-0.5	-1.2	-0.8	0.8	0.0	0.1	0.6	0.9	2.1	-1.2	-0.4
Mar	0.0	0.0	0.0	0.0	0.2	0.7	-0.3	-0.7	-0.5	0.5	0.0	0.1	0.3	0.5	1.2	-1.8	-1.1
Apr	0.0	0.0	0.0	0.0	0.2	0.8	-0.3	-0.7	-0.5	0.5	0.0	0.1	0.3	0.5	1.3	-1.8	-1.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.7	-2.1
Jun	0.0	0.0	0.0	0.0	0.1	0.4	-0.1	-0.4	-0.3	0.2	0.0	0.0	0.2	0.3	0.7	-2.2	-1.6
Jul	0.0	0.0	0.0	0.0	0.6	2.1	-0.8	-1.9	-1.4	1.3	0.0	0.2	0.9	1.4	3.4	-0.2	0.7
Aug	0.0	0.0	0.0	0.0	0.8	3.1	-1.2	-2.8	-2.0	1.9	0.0	0.2	1.4	2.1	5.0	0.9	2.0
Sep	0.0	0.0	0.0	0.0	0.8	3.1	-1.2	-2.8	-2.0	1.9	0.0	0.2	1.4	2.1	5.1	0.9	2.0
Oct	0.0	0.0	0.0	0.0	1.2	3.5	-1.1	-2.5	-1.6	2.2	0.0	0.3	1.7	2.8	6.2	2.2	2.2
Nov	0.0	0.0	0.0	0.0	1.2	3.7	-1.1	-2.6	-1.7	2.3	0.0	0.4	1.8	2.9	6.5	2.3	2.4
Dec	0.0	0.0	0.0	0.0	0.8	3.0	-1.1	-2.7	-1.9	1.8	0.0	0.2	1.3	2.0	4.9	0.8	1.9
Avg	0.0	0.0	0.0	0.0	0.6	2.0	-0.7	-1.7	-1.2	1.2	0.0	0.2	0.9	1.4	3.3	-0.3	0.5
Alt 5 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	0.5	1.9	-0.8	-1.9	-1.3	1.2	0.0	0.1	0.8	1.3	3.1	-0.4	0.5
Feb	0.0	0.0	0.0	0.0	0.3	1.3	-0.5	-1.2	-0.9	0.8	0.0	0.1	0.5	0.8	2.0	-1.2	-0.5
Mar	0.0	0.0	0.0	0.0	0.2	0.7	-0.3	-0.7	-0.5	0.4	0.0	0.0	0.3	0.5	1.2	-1.8	-1.1
Apr	0.0	0.0	0.0	0.0	0.2	0.8	-0.3	-0.7	-0.5	0.5	0.0	0.0	0.3	0.5	1.2	-1.8	-1.1
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.7	-2.1
Jun	0.0	0.0	0.0	0.0	0.1	0.4	-0.2	-0.4	-0.3	0.2	0.0	0.0	0.2	0.3	0.6	-2.2	-1.6
Jul	0.0	0.0	0.0	0.0	0.6	2.1	-0.8	-2.0	-1.4	1.3	0.0	0.1	0.9	1.4	3.3	-0.3	0.6
Aug	0.0	0.0	0.0	0.0	0.8	3.0	-1.2	-2.9	-2.1	1.8	0.0	0.2	1.3	2.0	4.9	0.9	2.0
Sep	0.0	0.0	0.0	0.0	0.8	3.1	-1.2	-2.9	-2.1	1.9	0.0	0.2	1.3	2.0	4.9	0.9	2.0
Oct	0.0	0.0	0.0	0.0	1.1	3.4	-1.1	-2.6	-1.7	2.2	0.0	0.3	1.6	2.7	6.1	2.1	2.2
Nov	0.0	0.0	0.0	0.0	1.2	3.6	-1.2	-2.7	-1.7	2.3	0.0	0.3	1.7	2.8	6.4	2.3	2.3
Dec	0.0	0.0	0.0	0.0	0.8	2.9	-1.1	-2.8	-2.0	1.8	0.0	0.2	1.2	1.9	4.7	0.8	1.8
Avg	0.0	0.0	0.0	0.0	0.6	1.9	-0.7	-1.7	-1.2	1.2	0.0	0.1	0.8	1.3	3.2	-0.3	0.4
Alt 6 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.3	-0.4	-0.2	0.0	-0.1	-0.3	-0.4	-0.8	-0.9	-0.4
Feb	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	-0.3	-0.5	-1.2	-0.9
Mar	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.2	-0.3	-1.6	-1.2
Apr	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.2	-0.3	-1.5	-1.2
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.0	-1.6
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.2	-1.7	-1.4
Jul	0.0	0.0	0.0	0.0	-0.2	-0.3	-0.1	-0.3	-0.4	-0.2	0.0	-0.1	-0.3	-0.5	-0.9	-0.8	-0.3
Aug	0.0	0.0	0.0	0.0	-0.3	-0.4	-0.2	-0.5	-0.6	-0.3	0.0	-0.2	-0.4	-0.7	-1.3	-0.3	0.3
Sep	0.0	0.0	0.0	0.0	-0.3	-0.4	-0.2	-0.5	-0.6	-0.3	0.0	-0.2	-0.4	-0.7	-1.3	-0.3	0.3
Oct	0.0	0.0	0.0	0.0	0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	-0.2	0.9	0.4
Nov	0.0	0.0	0.0	0.0	0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	0.0	-0.2	0.9	0.5
Dec	0.0	0.0	0.0	0.0	-0.2	-0.4	-0.2	-0.5	-0.5	-0.2	0.0	-0.2	-0.4	-0.7	-1.2	-0.4	0.2
Avg	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.2	-0.3	-0.1	0.0	-0.1	-0.2	-0.3	-0.6	-0.7	-0.5
Alt 7 Change in Salinity																	
Jan	0.0	0.0	0.0	0.0	-0.2	-0.2	-0.1	-0.3	-0.3	-0.2	0.0	-0.1	-0.2	-0.4	-0.7	-1.5	-0.7
Feb	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.0	-0.1	-0.3	-0.4	-1.7	-1.1
Mar	0.0	0.0	0.0	0.0	0.												

	B7 North	B7 Southeast	B7 Southwest	B8	B9	Bayou Black	Bayou Copasaw	Bayou Penchant	Big Carencro Bayou	C1	C10 North	C10 South	C10 West	C14 Central	C14 North	C14 South	C2
2065																	
Alt 1 Salinity																	
Jan	11.2	14.1	16.5	0.6	1.4	0.0	0.0	0.0	4.6	0.4	9.2	11.0	9.7	17.9	10.0	19.3	6.6
Feb	8.5	11.2	13.1	0.4	0.9	0.0	0.0	0.0	3.0	0.3	8.6	9.8	9.0	14.6	7.0	16.3	6.4
Mar	6.4	8.8	10.4	0.2	0.5	0.0	0.0	0.0	1.7	0.2	8.2	8.9	8.5	12.0	4.6	14.0	6.3
Apr	6.5	9.0	10.6	0.3	0.5	0.0	0.0	0.0	1.8	0.2	8.2	9.0	8.6	12.2	4.7	14.2	6.3
May	3.5	5.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	7.7	7.9	8.5	1.3	10.9	6.2
Jun	5.0	7.3	8.8	0.2	0.3	0.0	0.0	0.0	0.9	0.1	7.9	8.4	8.2	10.3	3.0	12.5	6.2
Jul	11.7	14.7	17.1	0.6	1.4	0.0	0.0	0.0	4.9	0.4	9.3	11.2	9.8	18.5	10.7	19.9	6.6
Aug	15.5	19.0	22.0	0.9	2.1	0.0	0.0	0.0	7.3	0.6	10.1	12.8	10.7	23.3	15.1	24.1	6.8
Sep	15.6	19.1	22.0	0.9	2.1	0.0	0.0	0.0	7.3	0.6	10.1	12.8	10.7	23.3	15.1	24.1	6.8
Oct	15.6	19.2	22.2	0.5	1.1	0.0	0.0	0.0	6.7	0.4	9.2	12.0	9.7	23.7	16.4	24.3	5.8
Nov	16.4	20.0	23.0	0.5	1.2	0.0	0.0	0.0	7.1	0.5	9.4	12.4	10.0	24.4	17.2	25.0	5.8
Dec	15.1	18.5	21.4	0.8	2.0	0.0	0.0	0.0	7.0	0.6	10.0	12.6	10.6	22.7	14.6	23.6	6.8
Avg	10.92	13.88	16.17	0.49	1.14	0.01	0.00	0.00	4.38	0.35	8.97	10.73	9.45	17.60	9.98	19.02	6.38
Alt 2 Change in Salinity																	
Jan	-0.4	-0.8	-0.6	-0.1	0.3	0.0	0.0	0.0	-1.5	0.1	-2.3	-0.2	-1.3	0.2	1.1	0.0	-0.9
Feb	-1.1	-1.6	-1.1	0.0	0.2	0.0	0.0	0.0	-1.0	0.1	-3.3	0.6	-1.5	0.3	0.6	0.1	-1.1
Mar	-1.7	-2.2	-1.4	0.0	0.1	0.0	0.0	0.0	-0.6	0.1	-4.1	1.2	-1.6	0.3	0.2	0.1	-1.2
Apr	-1.6	-2.2	-1.4	0.0	0.1	0.0	0.0	0.0	-0.6	0.1	-4.1	1.2	-1.6	0.3	0.2	0.1	-1.2
May	-2.5	-3.1	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-5.2	2.0	-1.7	0.3	-0.4	0.1	-1.3
Jun	-2.1	-2.6	-1.7	0.0	0.1	0.0	0.0	0.0	-0.3	0.1	-4.7	1.6	-1.7	0.3	-0.1	0.1	-1.3
Jul	-0.2	-0.6	-0.5	-0.1	0.3	0.0	0.0	0.0	-1.6	0.1	-2.1	-0.3	-1.3	0.2	1.2	0.0	-0.9
Aug	0.8	0.6	0.1	-0.1	0.5	0.0	0.0	0.0	-2.3	0.1	-0.6	-1.4	-1.1	0.2	2.0	0.0	-0.7
Sep	0.8	0.6	0.1	-0.1	0.5	0.0	0.0	0.0	-2.3	0.1	-0.6	-1.4	-1.1	0.2	2.0	0.0	-0.7
Oct	1.0	0.7	0.2	0.3	1.5	0.0	0.0	0.0	-1.7	0.3	0.3	-0.5	-0.1	0.1	0.9	0.0	0.4
Nov	1.0	0.8	0.3	0.3	1.5	0.0	0.0	0.0	-1.8	0.3	0.5	-0.9	-0.2	0.1	1.0	0.0	0.4
Dec	0.7	0.4	0.0	-0.1	0.4	0.0	0.0	0.0	-2.2	0.1	-0.8	-1.3	-1.1	0.2	1.9	0.0	-0.7
Avg	-0.4	-0.8	-0.7	0.0	0.5	0.0	0.0	0.0	-1.3	0.2	-2.2	0.1	-1.2	0.2	0.9	0.0	-0.8
Alt 3 Change in Salinity																	
Jan	-0.6	-1.2	-1.2	-0.1	0.3	0.0	0.0	0.0	-1.5	0.1	-2.6	-0.4	-1.5	0.0	0.9	0.0	-0.9
Feb	-1.4	-2.2	-1.9	0.0	0.2	0.0	0.0	0.0	-1.0	0.0	-3.8	0.2	-1.8	-0.1	0.3	0.0	-1.0
Mar	-1.7	-2.2	-1.4	0.0	0.1	0.0	0.0	0.0	-0.6	0.1	-4.1	1.2	-1.6	0.3	0.2	0.1	-1.2
Apr	-1.7	-2.2	-1.4	0.0	0.1	0.0	0.0	0.0	-0.6	0.1	-4.1	1.2	-1.6	0.3	0.2	0.1	-1.2
May	-2.5	-3.1	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-5.2	2.0	-1.7	0.3	-0.4	0.1	-1.3
Jun	-2.1	-2.6	-1.7	0.0	0.1	0.0	0.0	0.0	-0.3	0.1	-4.7	1.6	-1.7	0.3	-0.1	0.1	-1.3
Jul	-0.4	-1.0	-1.0	-0.1	0.3	0.0	0.0	0.0	-1.6	0.1	-2.4	-0.6	-1.5	0.0	1.1	0.0	-0.8
Aug	0.7	0.5	0.0	-0.1	0.4	0.0	0.0	0.0	-2.4	0.1	-0.7	-1.4	-1.2	0.2	1.9	0.0	-0.7
Sep	0.7	0.5	0.0	-0.1	0.4	0.0	0.0	0.0	-2.4	0.1	-0.7	-1.5	-1.2	0.2	1.9	0.0	-0.7
Oct	0.9	0.6	0.1	0.2	1.4	0.0	0.0	0.0	-1.7	0.3	0.3	-0.5	-0.1	0.0	0.8	0.0	0.4
Nov	1.0	0.8	0.2	0.2	1.5	0.0	0.0	0.0	-1.8	0.3	0.5	-0.9	-0.2	0.1	0.9	0.0	0.4
Dec	0.6	0.3	-0.1	-0.1	0.4	0.0	0.0	0.0	-2.3	0.1	-0.9	-1.3	-1.2	0.2	1.8	0.0	-0.7
Avg	-0.5	-1.0	-0.9	0.0	0.4	0.0	0.0	0.0	-1.4	0.1	-2.4	0.0	-1.3	0.1	0.8	0.0	-0.7
Alt 4 Change in Salinity																	
Jan	0.3	-0.3	-0.4	0.6	1.4	0.0	0.0	0.0	-1.2	1.2	-1.6	0.0	-1.1	0.3	2.0	0.0	-0.9
Feb	-0.7	-1.3	-0.9	0.4	0.9	0.0	0.0	0.0	-0.8	0.8	-2.9	0.7	-1.3	0.3	1.1	0.1	-1.0
Mar	-1.4	-2.0	-1.4	0.2	0.5	0.0	0.0	0.0	-0.4	0.5	-3.9	1.3	-1.5	0.3	0.5	0.1	-1.2
Apr	-1.4	-2.0	-1.3	0.2	0.6	0.0	0.0	0.0	-0.5	0.6	-3.8	1.2	-1.5	0.3	0.5	0.1	-1.1
May	-2.5	-3.1	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-5.2	2.0	-1.7	0.3	-0.4	0.1	-1.3
Jun	-1.9	-2.5	-1.6	0.1	0.3	0.0	0.0	0.0	-0.2	0.4	-4.5	1.6	-1.6	0.3	0.1	0.1	-1.2
Jul	0.5	-0.1	-0.3	0.6	1.5	0.0	0.0	0.0	-1.2	1.3	-1.4	-0.1	-1.1	0.3	2.1	0.0	-0.8
Aug	1.9	1.3	0.4	0.9	2.2	0.0	0.0	0.0	-1.8	1.8	0.4	-1.2	-0.8	0.3	3.3	0.0	-0.6
Sep	1.9	1.3	0.4	0.9	2.2	0.0	0.0	0.0	-1.8	1.8	0.5	-1.2	-0.8	0.3	3.3	0.0	-0.6
Oct	2.1	1.4	0.5	1.3	3.2	0.0	0.0	0.0	-1.2	2.0	1.4	-0.3	0.3	0.2	2.2	0.0	0.5
Nov	2.2	1.6	0.6	1.4	3.4	0.0	0.0	0.0	-1.3	2.1	1.7	-0.6	0.2	0.2	2.4	0.0	0.5
Dec	1.7	1.1	0.4	0.9	2.1	0.0	0.0	0.0	-1.7	1.7	0.2	-1.0	-0.8	0.3	3.2	0.0	-0.6
Avg	0.2	-0.4	-0.5	0.6	1.5	0.0	0.0	0.0	-1.0	1.2	-1.6	0.2	-1.0	0.3	1.7	0.0	-0.7
Alt 5 Change in Salinity																	
Jan	0.2	-0.4	-0.5	0.5	1.3	0.0	0.0	0.0	-1.2	1.2	-1.7	0.0	-1.1	0.3	1.9	0.0	-0.9
Feb	-0.7	-1.4	-1.0	0.4	0.9	0.0	0.0	0.0	-0.8	0.8	-3.0	0.7	-1.4	0.2	1.1	0.0	-1.1
Mar	-1.4	-2.0	-1.4	0.2	0.5	0.0	0.0	0.0	-0.5	0.5	-3.9	1.3	-1.5	0.3	0.5	0.1	-1.2
Apr	-1.4	-2.0	-1.3	0.2	0.5	0.0	0.0	0.0	-0.5	0.5	-3.8	1.2	-1.5	0.3	0.5	0.1	-1.1
May	-2.5	-3.1	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-5.2	2.0	-1.7	0.3	-0.4	0.1	-1.3
Jun	-1.9	-2.5	-1.6	0.1	0.3	0.0	0.0	0.0	-0.3	0.4	-4.5	1.6	-1.6	0.3	0.1	0.1	-1.2
Jul	0.4	-0.2	-0.4	0.6	1.4	0.0	0.0	0.0	-1.3	1.2	-1.4	-0.2	-1.1	0.3	2.1	0.0	-0.8
Aug	1.8	1.2	0.4	0.9	2.1	0.0	0.0	0.0	-1.9	1.7	0.4	-1.2	-0.8	0.3	3.3	0.0	-0.6
Sep	1.9	1.3	0.4	0.9	2.1	0.0	0.0	0.0	-1.9	1.7	0.4	-1.2	-0.8	0.3	3.3	0.0	-0.6
Oct	2.0	1.4	0.5	1.2	3.1	0.0	0.0	0.0	-1.3	1.9	1.4	-0.3	0.3	0.2	2.2	0.0	0.5
Nov	2.2	1.5	0.6	1.3	3.3	0.0	0.0	0.0	-1.3	2.0	1.6	-0.6	0.2	0.2	2.3	0.0	0.5
Dec	1.7	1.1	0.3	0.8	2.0	0.0	0.0	0.0	-1.8	1.7	0.2	-1.1	-0.8	0.3	3.1	0.0	-0.6
Avg	0.2	-0.4	-0.5	0.6	1.5	0.0	0.0	0.0	-1.1	1.2	-1.6	0.2	-1.0	0.3	1.7	0.0	-0.7
Alt 6 Change in Salinity																	
Jan	-0.5	-0.6	-0.4	-0.3	-0.7	0.0	0.0	0.0	-0.1	-0.2	-0.5	-1.9	-1.2	0.3	0.7	0.0	-0.3
Feb	-1.0	-1.1	-0.6	-0.2	-0.4	0.0	0.0	0.0	-0.1	-0.1	-0.7	-2.8	-1.8	0.3	0.4	0.0	-0.4
Mar	-1.3	-1.5	-0.8	-0.1	-0.2	0.0	0.0	0.0	0.0	-0.1	-1.0	-3.6	-2.3	0.4	0.2	0.0	-0.3
Apr	-1.3	-1.4	-0.7	-0.1	-0.3	0.0	0.0	0.0	0.0	-0.1	-1.0	-3.5	-2.3	0.4	0.2	0.0	-0.3
May	-1.8	-2.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2	-4.6	-2.9	0.5	-0.1	0.0	-0.4
Jun	-1.5	-1.7	-0.9	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-1.1	-4.1	-2.6	0.5	0.1	0.0	-0.4
Jul	-0.4	-0.6	-0.3	-0.3	-0.7	0.0	0.0	0.0	-0.1	-0.2	-0.5	-1.7	-1.1	0.3	0.8	0.0	-0.3
Aug	0.3	0.1	0.0	-0.4	-1.0	0.0	0.0	0.0	-0.2	-0.3	-0.1	-0.3	-0.3	0.2	1.2	0.0	-0.2
Sep	0.3	0.1	0.0	-0.5	-1.0	0.0	0.0	0.0	-0.2	-0.3	-0.1	-0.3	-0.3	0.2	1.2	0.0	-0.2
Oct	0.4	0.2	0.1	-0.1	-0.1	0.0	0.0	0.0	0.5	-0.1	0.8	0.7	0.8	0.0	0.1	0.0	0.8
Nov	0.4	0.3	0.1	-0.1	-0.1	0.0	0.0	0.0	0.5	-0.1	0.8	0.8	0.8	0.0	0.1	0.0	0.9
Dec	0.2	0.0	0.0	-0.4	-1.0	0.0	0.0	0.0	-0.2	-0.3	-0.2	-0.5	-0.4	0.2	1.2	0.0	-0.2
Avg	-0.5	-0.7	-0.4	-0.2	-0.5	0.0	0.0	0.0	0.0	-0.1	-0.4	-1.8	-1.1	0.3	0.5	0.0	-0.1
Alt 7 Change in Salinity																	
Jan	-0.8	-0.8	-0.4	-0.2	-0.6	0.0	0.0	0.0	-0.4	-0.1	-1.1	-2.3	-1.8	0.3	0.7	0.0	-1.0
Feb	-1.2	-1.3	-0.6	-0.1	-0.4	0.0	0.0	0.0	-0.3	-0.1	-1.2	-3.2	-2.2	0.4	0.4	0.0	-1.0
Mar	-1.5	-1.6	-0.8	-0.1													

2065	C3	C4	C5	C6	C7	C8	C9	Carencro Bayou	Creole Bayou	D3 Central	D3 North	D3 South	E2 Northwest	E2 Southeast	E3 North	E3 South	E4 North
Alt 1 Salinity																	
Jan	7.0	7.4	7.5	7.6	8.1	8.6	8.3	0.1	0.0	15.3	12.0	18.7	12.2	17.5	13.0	13.3	17.7
Feb	6.8	7.2	7.3	7.3	7.8	8.2	7.9	0.0	0.0	12.9	10.4	15.8	9.2	15.2	11.2	11.4	15.3
Mar	6.7	7.1	7.1	7.1	7.6	7.9	7.5	0.0	0.0	11.0	9.2	13.5	6.8	13.4	9.8	9.9	13.5
Apr	6.7	7.1	7.1	7.1	7.6	8.0	7.6	0.0	0.0	11.2	9.3	13.7	7.0	13.5	9.9	10.0	13.6
May	6.5	6.9	6.8	6.8	7.3	7.5	7.1	0.0	0.0	8.5	7.6	10.4	3.6	10.9	7.8	7.9	11.0
Jun	6.6	7.0	7.0	7.0	7.5	7.7	7.3	0.0	0.0	9.8	8.5	12.1	5.3	12.2	8.9	9.0	12.3
Jul	7.0	7.4	7.6	7.6	8.2	8.7	8.3	0.1	0.0	15.8	12.3	19.3	12.8	17.9	13.4	13.7	18.1
Aug	7.3	7.7	7.9	8.0	8.6	9.2	8.9	0.1	0.0	19.2	14.5	23.5	17.1	21.2	16.0	16.4	21.5
Sep	7.3	7.7	7.9	8.0	8.6	9.2	8.9	0.1	0.0	19.2	14.5	23.6	17.1	21.3	16.1	16.4	21.5
Oct	6.4	6.7	7.1	7.2	7.7	8.4	8.1	0.1	0.0	18.7	13.8	23.6	16.6	21.2	16.1	16.4	21.5
Nov	6.4	6.7	7.1	7.2	7.8	8.5	8.2	0.1	0.0	19.5	14.3	24.4	17.3	21.7	16.5	16.9	22.0
Dec	7.2	7.6	7.8	7.9	8.6	9.2	8.8	0.1	0.0	18.8	14.2	23.0	16.6	20.8	15.7	16.1	21.1
Avg	6.82	7.22	7.34	7.41	7.95	8.43	8.08	0.06	0.01	14.99	11.72	18.46	11.80	17.24	12.86	13.11	17.42
Alt 2 Change in Salinity																	
Jan	-5.1	-0.3	-5.3	-5.2	-0.5	-0.7	-4.4	0.0	0.0	-0.2	-0.8	-0.1	-0.6	0.4	0.2	0.1	0.3
Feb	-5.4	-0.3	-5.8	-5.7	-0.6	-0.9	-5.2	0.0	0.0	-1.3	-1.8	-0.2	-0.6	0.2	0.1	0.1	0.2
Mar	-5.7	-0.3	-6.1	-6.0	-0.7	-1.1	-5.9	0.0	0.0	-2.1	-2.5	-0.3	-0.7	0.1	0.0	0.0	0.1
Apr	-5.7	-0.3	-6.1	-6.0	-0.7	-1.1	-5.9	0.0	0.0	-2.1	-2.5	-0.3	-0.7	0.1	0.0	0.0	0.1
May	-6.0	-0.2	-6.6	-6.5	-0.8	-1.4	-6.8	0.0	0.0	-3.3	-3.6	-0.4	-0.8	-0.1	-0.1	0.0	-0.1
Jun	-5.8	-0.3	-6.3	-6.3	-0.7	-1.2	-6.3	0.0	0.0	-2.7	-3.0	-0.4	-0.7	0.0	0.0	0.0	0.0
Jul	-5.0	-0.3	-5.3	-5.1	-0.5	-0.6	-4.3	0.0	0.0	0.0	-0.6	-0.1	-0.6	0.4	0.2	0.2	0.3
Aug	-4.5	-0.3	-4.6	-4.4	-0.3	-0.2	-3.1	0.0	0.0	1.5	0.7	0.1	-0.5	0.6	0.3	0.3	0.5
Sep	-4.5	-0.3	-4.6	-4.4	-0.3	-0.2	-3.1	0.0	0.0	1.6	0.7	0.1	-0.5	0.6	0.4	0.3	0.5
Oct	-3.6	0.6	-3.8	-3.5	0.6	0.7	-2.2	0.0	0.0	2.2	1.6	0.2	0.2	0.8	0.5	0.3	0.7
Nov	-3.5	0.6	-3.6	-3.4	0.6	0.7	-1.9	0.0	0.0	2.3	1.7	0.2	0.3	0.9	0.5	0.4	0.8
Dec	-4.6	-0.3	-4.7	-4.5	-0.3	-0.3	-3.2	0.0	0.0	1.4	0.6	0.1	-0.5	0.6	0.3	0.2	0.5
Avg	-5.0	-0.1	-5.2	-5.1	-0.4	-0.5	-4.4	0.0	0.0	-0.2	-0.8	-0.1	-0.5	0.4	0.2	0.2	0.3
Alt 3 Change in Salinity																	
Jan	-5.2	-0.4	-5.5	-5.3	-0.7	-1.0	-4.4	0.0	0.0	-0.8	-1.3	-0.2	-1.0	0.1	0.1	0.1	0.1
Feb	-5.6	-0.4	-5.9	-5.8	-1.0	-1.5	-5.2	0.0	0.0	-2.1	-2.5	-0.4	-1.3	-0.1	-0.1	-0.1	-0.1
Mar	-5.7	-0.3	-6.1	-6.0	-0.7	-1.1	-5.9	0.0	0.0	-2.2	-2.6	-0.3	-0.7	0.1	0.0	0.0	0.1
Apr	-5.7	-0.3	-6.1	-6.0	-0.7	-1.1	-5.9	0.0	0.0	-2.1	-2.5	-0.3	-0.7	0.1	0.0	0.0	0.1
May	-6.0	-0.2	-6.6	-6.5	-0.8	-1.4	-6.8	0.0	0.0	-3.3	-3.6	-0.4	-0.8	-0.1	-0.1	0.0	-0.1
Jun	-5.8	-0.3	-6.3	-6.3	-0.8	-1.3	-6.3	0.0	0.0	-2.7	-3.0	-0.4	-0.7	0.0	0.0	0.0	0.0
Jul	-5.2	-0.4	-5.4	-5.2	-0.7	-0.9	-4.3	0.0	0.0	-0.5	-1.1	-0.2	-1.0	0.2	0.1	0.1	0.2
Aug	-4.6	-0.4	-4.8	-4.5	-0.4	-0.3	-3.2	0.0	0.0	1.4	0.6	0.1	-0.6	0.6	0.3	0.2	0.5
Sep	-4.6	-0.4	-4.7	-4.5	-0.4	-0.3	-3.2	0.0	0.0	1.4	0.6	0.1	-0.6	0.6	0.3	0.2	0.5
Oct	-3.7	0.6	-3.9	-3.6	0.5	0.6	-2.3	0.0	0.0	2.1	1.5	0.2	0.1	0.8	0.4	0.3	0.7
Nov	-3.6	0.6	-3.7	-3.5	0.6	0.7	-2.1	0.0	0.0	2.3	1.7	0.2	0.2	0.9	0.5	0.3	0.8
Dec	-4.7	-0.4	-4.8	-4.6	-0.4	-0.4	-3.3	0.0	0.0	1.2	0.4	0.0	-0.7	0.5	0.3	0.2	0.5
Avg	-5.0	-0.2	-5.3	-5.2	-0.5	-0.7	-4.4	0.0	0.0	-0.4	-1.0	-0.1	-0.7	0.3	0.2	0.1	0.3
Alt 4 Change in Salinity																	
Jan	-3.7	-0.2	-3.7	-3.5	-0.2	-0.2	-3.1	0.0	0.0	0.3	0.4	-0.1	1.2	-0.1	-0.1	0.0	0.0
Feb	-4.5	-0.2	-4.7	-4.6	-0.4	-0.7	-4.4	0.0	0.0	-0.9	-1.0	-0.2	0.5	-0.1	-0.1	0.0	0.0
Mar	-5.1	-0.2	-5.5	-5.4	-0.6	-1.0	-5.4	0.0	0.0	-1.9	-2.1	-0.3	0.0	-0.1	-0.1	0.0	0.0
Apr	-5.1	-0.2	-5.4	-5.3	-0.6	-1.0	-5.3	0.0	0.0	-1.9	-2.0	-0.3	0.0	-0.1	-0.1	0.0	0.0
May	-6.0	-0.2	-6.6	-6.5	-0.8	-1.4	-6.8	0.0	0.0	-3.3	-3.5	-0.4	-0.7	-0.1	-0.1	0.0	0.0
Jun	-5.5	-0.2	-6.0	-5.9	-0.7	-1.2	-6.0	0.0	0.0	-2.6	-2.8	-0.4	-0.4	-0.1	-0.1	0.0	0.0
Jul	-3.5	-0.2	-3.5	-3.3	-0.2	-0.2	-2.8	0.0	0.0	0.6	0.6	-0.1	1.3	-0.1	-0.1	0.0	0.0
Aug	-2.3	-0.2	-2.0	-1.8	0.1	0.4	-0.9	0.0	0.0	2.4	2.6	0.1	2.3	-0.1	-0.1	0.0	0.0
Sep	-2.3	-0.2	-2.0	-1.8	0.1	0.4	-0.9	0.0	0.0	2.4	2.6	0.1	2.3	-0.1	-0.1	0.0	0.0
Oct	-1.3	0.8	-1.1	-0.9	1.0	1.3	0.0	0.0	0.0	3.1	3.5	0.2	3.1	0.1	0.0	0.0	0.2
Nov	-1.1	0.8	-0.9	-0.6	1.1	1.4	0.4	0.0	0.0	3.2	3.7	0.2	3.3	0.1	0.0	0.0	0.2
Dec	-2.4	-0.2	-2.2	-2.0	0.1	0.3	-1.1	0.0	0.0	2.2	2.4	0.1	2.2	-0.1	-0.1	0.0	0.0
Avg	-3.6	-0.1	-3.6	-3.5	-0.1	-0.1	-3.0	0.0	0.0	0.3	0.4	-0.1	1.3	0.0	0.0	0.0	0.0
Alt 5 Change in Salinity																	
Jan	-3.8	-0.2	-3.8	-3.6	-0.3	-0.3	-3.1	0.0	0.0	0.2	0.3	-0.1	1.1	-0.1	-0.1	0.0	0.0
Feb	-4.6	-0.2	-4.8	-4.6	-0.4	-0.7	-4.4	0.0	0.0	-1.0	-1.1	-0.2	0.4	-0.1	-0.1	0.0	0.0
Mar	-5.2	-0.2	-5.5	-5.4	-0.6	-1.0	-5.4	0.0	0.0	-1.9	-2.1	-0.3	0.0	-0.1	-0.1	0.0	0.0
Apr	-5.1	-0.2	-5.5	-5.4	-0.6	-1.0	-5.3	0.0	0.0	-1.9	-2.0	-0.3	0.0	-0.1	-0.1	0.0	0.0
May	-6.0	-0.2	-6.6	-6.5	-0.8	-1.4	-6.8	0.0	0.0	-3.3	-3.5	-0.4	-0.7	-0.1	-0.1	0.0	0.0
Jun	-5.6	-0.2	-6.0	-5.9	-0.7	-1.2	-6.0	0.0	0.0	-2.6	-2.8	-0.4	-0.4	-0.1	-0.1	0.0	0.0
Jul	-3.6	-0.2	-3.6	-3.4	-0.2	-0.2	-2.8	0.0	0.0	0.5	0.5	-0.1	1.3	-0.1	-0.1	0.0	0.0
Aug	-2.5	-0.2	-2.2	-2.0	0.1	0.4	-1.0	0.0	0.0	2.3	2.5	0.1	2.3	-0.1	-0.1	0.0	0.0
Sep	-2.4	-0.2	-2.2	-1.9	0.1	0.4	-1.0	0.0	0.0	2.4	2.5	0.1	2.3	-0.1	-0.1	0.0	0.0
Oct	-1.5	0.8	-1.3	-1.0	1.0	1.3	-0.1	0.0	0.0	3.0	3.4	0.2	3.0	0.1	0.0	0.0	0.2
Nov	-1.3	0.8	-1.0	-0.8	1.0	1.4	0.3	0.0	0.0	3.2	3.6	0.2	3.2	0.1	0.0	0.0	0.2
Dec	-2.6	-0.2	-2.4	-2.1	0.0	0.3	-1.2	0.0	0.0	2.1	2.3	0.1	2.2	-0.1	-0.1	0.0	0.0
Avg	-3.7	-0.1	-3.7	-3.6	-0.1	-0.2	-3.1	0.0	0.0	0.3	0.3	-0.1	1.2	0.0	0.0	0.0	0.0
Alt 6 Change in Salinity																	
Jan	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	-1.6	-1.1	-0.4	-0.5	-0.3	-0.2	-0.1	-0.2
Feb	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	-2.3	-1.6	-0.5	-0.5	-0.4	-0.3	-0.2	-0.4
Mar	-0.2	-0.1	-0.1	-0.1	-0.1	-0.3	-0.2	0.0	0.0	-2.8	-2.0	-0.6	-0.4	-0.5	-0.3	-0.2	-0.4
Apr	-0.2	-0.1	-0.1	-0.1	-0.1	-0.3	-0.2	0.0	0.0	-2.8	-2.0	-0.6	-0.4	-0.5	-0.3	-0.2	-0.4
May	-0.2	-0.1	0.0	0.0	-0.1	-0.3	-0.3	0.0	0.0	-3.5	-2.5	-0.8	-0.3	-0.7	-0.4	-0.3	-0.6
Jun	-0.2	-0.1	0.0	0.0	-0.1	-0.3	-0.2	0.0	0.0	-3.1	-2.2	-0.7	-0.4	-0.6	-0.4	-0.3	-0.5
Jul	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0	-1.4	-1.0	-0.3	-0.6	-0.2	-0.1	-0.1	-0.2
Aug	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.4	-0.3	-0.1	-0.6	0.0	0.0	0.0	0.0
Sep	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.4	-0.3	-0.1	-0.6	0.0	0.0	0.0	0.0
Oct	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.0	0.0	0.2	0.5	0.0	0.1	0.2	0.1	0.1	0.2
Nov	0.7	0.9	0.7	0.7	0.8	0.8	0.7	0.0	0.0	0.2	0.5	0.0	0.1	0.3	0.1	0.1	0.3
Dec	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.6	-0.4	-0.1	-0.6	0.0	0.0	0.0	0.0
Avg	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.5	-1.0	-0.3	-0.4	-0.2	-0.1	-0.1	-0.2
Alt 7 Change in Salinity																	
Jan	-0.8	-0.8	-0.7	-0.7	-0.8	-0.8	-0.8	0.0	0.0	-1.8	-1.5	-0.4	-0.7	-0.2	-0.1	-0.1	-0.2
Feb	-0.7	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	0.0	0.0	-2.4	-1.9	-0.5	-0.6	-0.2	-0.1	-0.1	-0.2
Mar	-0.7	-0.6	-0.5	-0.5	-0.6	-0.7	-0.										

	E4 South	F2	F3 North	F3 South	G1 North	G1 South	G2	G3 East	G3 West	G5 North	G5 South	G6 Central	G6 Southeast	G6 West	G7 Cattfish Lake	G7 Northwest	G7 Southeast
2065																	
Alt 1	Salinity																
Jan	18.5	16.7	17.4	18.4	4.4	4.7	5.0	10.1	6.8	4.8	5.6	12.8	15.2	11.2	16.7	16.7	18.3
Feb	15.8	14.6	15.1	15.7	4.2	4.4	4.6	8.8	6.0	4.5	5.3	11.3	13.2	9.9	14.4	14.4	15.6
Mar	13.7	12.9	13.2	13.6	4.0	4.2	4.3	7.8	5.3	4.3	5.1	10.1	11.6	8.8	12.5	12.6	13.4
Apr	13.9	13.0	13.3	13.8	4.0	4.2	4.3	7.9	5.4	4.3	5.1	10.2	11.7	8.9	12.7	12.7	13.6
May	10.9	10.6	10.7	10.8	3.8	3.9	3.8	6.5	4.5	4.0	4.7	8.4	9.4	7.4	10.0	10.2	10.5
Jun	12.4	11.8	12.1	12.3	3.9	4.1	4.1	7.2	4.9	4.1	4.9	9.3	10.6	8.2	11.4	11.5	12.1
Jul	19.0	17.1	17.8	18.9	4.4	4.7	5.1	10.3	6.9	4.9	5.6	13.1	15.6	11.5	17.2	17.2	18.8
Aug	22.8	20.2	21.2	22.8	4.7	5.1	5.7	12.1	8.1	5.3	6.0	15.3	18.5	13.4	20.5	20.5	22.7
Sep	22.9	20.3	21.2	22.8	4.7	5.1	5.7	12.2	8.1	5.4	6.0	15.3	18.6	13.4	20.6	20.6	22.8
Oct	23.0	20.1	21.2	22.9	4.5	4.9	5.3	11.3	7.4	5.1	6.0	15.0	18.3	12.8	20.4	20.5	22.8
Nov	23.6	20.6	21.7	23.6	4.5	4.9	5.4	11.6	7.5	5.2	6.1	15.4	18.8	13.1	21.0	21.1	23.5
Dec	22.4	19.9	20.8	22.4	4.6	5.1	5.6	11.9	8.0	5.3	6.0	15.1	18.2	13.2	20.2	20.1	22.3
Avg	18.24	16.48	17.15	18.17	4.30	4.61	4.90	9.82	6.58	4.77	5.52	12.61	14.98	10.99	16.46	16.52	18.02

	Change in Salinity																
Jan	0.1	0.6	0.1	-0.1	-0.3	-0.1	-0.4	-2.1	-1.2	0.2	1.8	-2.5	-2.7	-3.0	-2.1	-1.9	-1.0
Feb	0.1	0.3	-0.2	-0.3	-0.6	-0.6	-1.1	-3.3	-2.1	-0.4	1.0	-4.0	-4.1	-4.2	-3.2	-3.0	-1.6
Mar	0.0	0.1	-0.4	-0.4	-0.9	-1.0	-1.7	-4.3	-2.8	-0.8	0.3	-5.2	-5.2	-5.1	-4.1	-3.8	-2.1
Apr	0.0	0.1	-0.4	-0.4	-0.9	-1.0	-1.7	-4.2	-2.8	-0.8	0.4	-5.2	-5.2	-5.1	-4.2	-3.8	-2.1
May	-0.1	-0.3	-0.7	-0.5	-1.3	-1.6	-2.5	-5.6	-3.8	-1.4	-0.5	-6.8	-6.7	-6.4	-5.3	-5.0	-2.7
Jun	0.0	-0.1	-0.5	-0.4	-1.1	-1.3	-2.1	-4.9	-3.3	-1.1	-0.1	-5.9	-5.9	-5.7	-4.7	-4.4	-2.4
Jul	0.1	0.7	0.2	-0.1	-0.2	0.0	-0.3	-1.8	-1.1	0.3	2.0	-2.2	-2.4	-2.8	-1.9	-1.7	-0.9
Aug	0.2	1.2	0.6	0.1	0.3	0.7	0.8	-0.1	0.2	1.1	3.2	0.0	-0.4	-1.0	-0.3	-0.1	0.0
Sep	0.2	1.2	0.6	0.1	0.3	0.7	0.8	0.0	0.2	1.2	3.2	0.0	-0.4	-1.0	-0.2	-0.1	0.0
Oct	0.3	1.5	0.8	0.2	0.5	1.0	1.2	0.9	1.1	1.5	3.3	0.5	0.1	-0.3	0.1	0.1	0.1
Nov	0.3	1.5	0.9	0.2	0.6	1.2	1.4	1.3	1.3	1.6	3.5	0.9	0.5	0.0	0.4	0.4	0.2
Dec	0.2	1.1	0.5	0.1	0.2	0.6	0.7	-0.3	0.1	1.0	3.1	-0.2	-0.6	-1.2	-0.4	-0.3	-0.1
Avg	0.1	0.7	0.1	-0.1	-0.3	-0.1	-0.4	-2.0	-1.2	0.2	1.8	-2.5	-2.7	-3.0	-2.2	-2.0	-1.0

	Change in Salinity																
Jan	0.0	0.3	-0.1	-0.2	-0.5	-0.3	-0.6	-2.4	-1.5	0.0	1.5	-3.0	-3.5	-3.3	-3.2	-2.6	-1.7
Feb	-0.1	-0.1	-0.5	-0.4	-0.9	-0.9	-1.3	-3.6	-2.4	-0.7	0.5	-4.6	-5.0	-4.5	-4.5	-3.9	-2.5
Mar	0.0	0.0	-0.4	-0.4	-0.9	-1.0	-1.7	-4.3	-2.9	-0.8	0.3	-5.3	-5.3	-5.2	-4.3	-3.9	-2.1
Apr	0.0	0.1	-0.4	-0.4	-0.9	-1.0	-1.7	-4.2	-2.8	-0.8	0.4	-5.2	-5.2	-5.1	-4.2	-3.8	-2.1
May	-0.1	-0.3	-0.7	-0.5	-1.3	-1.6	-2.5	-5.6	-3.8	-1.4	-0.5	-6.8	-6.7	-6.4	-5.3	-5.0	-2.7
Jun	0.0	-0.1	-0.5	-0.4	-1.1	-1.3	-2.1	-4.9	-3.3	-1.1	-0.1	-6.0	-6.0	-5.8	-4.8	-4.4	-2.4
Jul	0.1	0.4	0.0	-0.2	-0.4	-0.2	-0.4	-2.1	-1.3	0.1	1.7	-2.6	-3.1	-3.1	-2.9	-2.3	-1.5
Aug	0.2	1.1	0.5	0.1	0.2	0.7	0.7	-0.3	0.0	1.1	3.1	-0.3	-0.9	-1.3	-1.0	-0.4	-0.3
Sep	0.2	1.1	0.5	0.1	0.2	0.7	0.7	-0.3	0.1	1.1	3.2	-0.3	-0.9	-1.3	-1.0	-0.4	-0.2
Oct	0.3	1.4	0.8	0.2	0.5	1.0	1.1	0.7	0.9	1.4	3.2	0.2	-0.4	-0.5	-0.7	-0.2	-0.1
Nov	0.3	1.5	0.8	0.2	0.6	1.1	1.3	1.0	1.1	1.6	3.5	0.6	0.0	-0.2	-0.4	0.1	0.1
Dec	0.2	1.0	0.5	0.0	0.2	0.6	0.6	-0.5	-0.1	1.0	3.0	-0.6	-1.2	-1.5	-1.3	-0.7	-0.4
Avg	0.1	0.5	0.0	-0.2	-0.4	-0.2	-0.5	-2.2	-1.3	0.1	1.6	-2.8	-3.2	-3.2	-2.8	-2.3	-1.3

	Change in Salinity																
Jan	-0.1	-0.3	-1.1	-0.9	-1.4	-1.7	-2.5	-7.8	-4.6	-1.7	-0.6	-9.7	-10.5	-8.8	-8.7	-8.1	-4.8
Feb	-0.1	-0.3	-0.9	-0.7	-1.4	-1.7	-2.5	-6.9	-4.3	-1.6	-0.6	-8.6	-9.0	-7.9	-7.4	-6.9	-3.9
Mar	-0.1	-0.3	-0.8	-0.6	-1.4	-1.6	-2.5	-6.2	-4.0	-1.6	-0.6	-7.6	-7.8	-7.2	-6.2	-5.8	-3.3
Apr	-0.1	-0.3	-0.8	-0.6	-1.4	-1.6	-2.5	-6.3	-4.0	-1.6	-0.6	-7.7	-7.9	-7.3	-6.3	-5.9	-3.3
May	0.0	-0.2	-0.6	-0.5	-1.4	-1.6	-2.6	-5.3	-3.6	-1.5	-0.7	-6.4	-6.2	-6.3	-4.8	-4.5	-2.4
Jun	0.0	-0.2	-0.7	-0.5	-1.4	-1.6	-2.6	-5.8	-3.8	-1.6	-0.7	-7.1	-7.0	-6.8	-5.6	-5.2	-2.8
Jul	-0.1	-0.3	-1.1	-0.9	-1.4	-1.7	-2.5	-7.9	-4.7	-1.7	-0.6	-10.0	-10.8	-9.0	-9.0	-8.4	-5.0
Aug	-0.1	-0.4	-1.4	-1.1	-1.4	-1.7	-2.5	-9.2	-5.2	-1.8	-0.5	-11.7	-13.0	-10.3	-11.0	-10.2	-6.2
Sep	-0.1	-0.4	-1.4	-1.1	-1.4	-1.7	-2.5	-9.2	-5.2	-1.8	-0.5	-11.7	-13.1	-10.3	-11.1	-10.3	-6.2
Oct	0.0	-0.1	-1.2	-1.1	-1.2	-1.5	-2.1	-8.3	-4.4	-1.5	-0.5	-11.3	-12.7	-9.7	-10.9	-10.2	-6.2
Nov	0.0	-0.2	-1.2	-1.1	-1.2	-1.5	-2.1	-8.5	-4.5	-1.5	-0.4	-11.6	-13.1	-9.9	-11.2	-10.5	-6.4
Dec	-0.1	-0.4	-1.4	-1.1	-1.4	-1.7	-2.5	-9.0	-5.1	-1.8	-0.5	-11.5	-12.8	-10.2	-10.8	-10.0	-6.0
Avg	-0.1	-0.3	-1.0	-0.9	-1.4	-1.6	-2.4	-7.5	-4.4	-1.6	-0.6	-9.6	-10.3	-8.7	-8.6	-8.0	-4.7

	Change in Salinity																
Jan	-0.1	-0.3	-1.1	-0.9	-1.4	-1.7	-2.5	-7.8	-4.6	-1.7	-0.6	-9.7	-10.5	-8.9	-8.7	-8.1	-4.8
Feb	-0.1	-0.3	-0.9	-0.7	-1.4	-1.7	-2.5	-6.9	-4.3	-1.6	-0.6	-8.6	-9.0	-7.9	-7.3	-6.8	-3.9
Mar	-0.1	-0.3	-0.8	-0.6	-1.4	-1.7	-2.5	-6.3	-4.0	-1.6	-0.6	-7.7	-7.8	-7.2	-6.2	-5.8	-3.3
Apr	-0.1	-0.3	-0.8	-0.6	-1.4	-1.7	-2.5	-6.3	-4.0	-1.6	-0.6	-7.7	-7.9	-7.3	-6.3	-5.9	-3.3
May	0.0	-0.2	-0.6	-0.5	-1.4	-1.6	-2.6	-5.3	-3.6	-1.5	-0.7	-6.4	-6.2	-6.3	-4.8	-4.5	-2.4
Jun	0.0	-0.2	-0.7	-0.5	-1.4	-1.6	-2.6	-5.8	-3.8	-1.6	-0.7	-7.1	-7.0	-6.8	-5.6	-5.2	-2.8
Jul	-0.1	-0.3	-1.1	-0.9	-1.4	-1.7	-2.5	-7.9	-4.7	-1.7	-0.6	-10.0	-10.8	-9.0	-9.0	-8.4	-5.0
Aug	-0.1	-0.4	-1.4	-1.1	-1.4	-1.7	-2.5	-9.2	-5.2	-1.8	-0.5	-11.7	-13.0	-10.3	-11.0	-10.2	-6.2
Sep	-0.1	-0.4	-1.4	-1.1	-1.4	-1.7	-2.5	-9.2	-5.2	-1.8	-0.5	-11.7	-13.1	-10.3	-11.1	-10.2	-6.2
Oct	0.0	-0.1	-1.2	-1.1	-1.2	-1.5	-2.1	-8.3	-4.4	-1.5	-0.5	-11.3	-12.7	-9.7	-10.9	-10.1	-6.2
Nov	0.0	-0.2	-1.2	-1.1	-1.2	-1.5	-2.1	-8.5	-4.5	-1.5	-0.4	-11.6	-13.1	-9.9	-11.2	-10.5	-6.4
Dec	-0.1	-0.4	-1.4	-1.1	-1.4	-1.7	-2.5	-9.0	-5.1	-1.8	-0.5	-11.5	-12.8	-10.2	-10.8	-10.0	-6.0
Avg	-0.1	-0.3	-1.0	-0.9	-1.4	-1.6	-2.4	-7.5	-4.5	-1.6	-0.6	-9.6	-10.3	-8.7	-8.6	-8.0	-4.7

	Change in Salinity																
Jan	-0.1	-0.6	-0.4	-0.2	-0.5	-0.5	-0.6	-2.0	-1.7	-0.4	0.1	-1.7	-1.7	-2.1	-1.4	-0.9	-0.4
Feb	-0.2	-1.0	-0.7	-0.3	-0.7	-0.8	-1.2	-3.0	-2.4	-0.8	-0.3	-2.8	-2.5	-3.2	-2.0	-1.4	-0.6
Mar	-0.2	-1.2	-0.8	-0.3	-0.8	-1.1	-1.6	-3.8	-2.9	-1.1	-0.6	-3.6	-3.1	-4.1	-2.1	-1.7	-0.8
Apr	-0.2	-1.2	-0.8	-0.3	-0.8	-1.1	-1.6	-3.7	-2.9	-1.1	-0.6	-3.6	-3.0	-4.0	-2.1	-1.7	-0.8
May	-0.3	-1.6	-1.1	-0.4	-1.0	-1.5	-2.2	-4.9	-3.6	-1.5	-1.0	-4.8	-3.9	-5.2	-2.6	-2.3	-1.0
Jun	-0.2	-1.4	-1.0	-0.4	-0.9	-1.3	-1.9	-4.3	-3.2	-1.3	-0.8	-4.2	-3.5	-4.6	-2.4	-2.0	-0.9
Jul	-0.1	-0.5	-0.4	-0.1	-0.5	-0.4	-0.5	-1.8	-1.6	-0.3	0.1	-1.5	-1.5	-1.9	-1.3	-0.8	-0.4
Aug	0.0	0.0	0.0	0.0	-0.2	0.1	0.3	-0.3	-0.6	0.3	0.6	0.2	-0.3	-0.3	-0.6	0.0	0.0
Sep	0.0	0.0	0.0	0.0	-0.2	0.1	0.3	-0.3	-0.6	0.3	0.7	0.2	-0.3	-0.2	-0.6	0.0	0.0
Oct	0.1	0.3	0.2	0.1	0.0	0.4	0.7	0.7	0.2	0.6	0.7	0.7	0.2	0.5	-0.3	0.2	0.0
Nov	0.1	0.4	0.3	0.1	0.0	0.5	0.8	1.0	0.4	0.7	0.8	0.9	0.4	0.8	-0.1	0.3	0.1
Dec	0.0	-0.1	0.0	0.0	-0.3	0.0	0.2	-0.5	-0.7	0.2	0.6	0.0	-0.4	-0.5	-0.7	-0.1	-0.1
Avg	-0.1	-0.6	-0.4	-0.2	-0.5												

2065	H1	H2 Central	H2 East	H2 West	H3	HNC at Bayou Grand Caillou	HNC at Falgout Canal	HNC below Lock Complex	HNC North	HNC South	Lake Pagie North	Lake Pagie South	Lake Palourde	Lost Lake East	Lost Lake West	Palmetto Bayou	Palm-Creole
Alt 1 Salinity																	
Jan	0.2	0.3	0.7	0.3	0.2	8.9	3.2	9.5	0.5	12.6	0.2	8.2	0.0	8.5	7.1	0.0	0.0
Feb	0.1	0.2	0.5	0.2	0.1	6.1	2.1	6.6	0.3	9.3	0.1	5.4	0.0	5.5	4.7	0.0	0.0
Mar	0.1	0.1	0.3	0.1	0.1	3.9	1.2	4.2	0.2	6.6	0.1	3.1	0.0	3.2	2.9	0.0	0.0
Apr	0.1	0.1	0.3	0.1	0.1	4.0	1.3	4.4	0.2	6.7	0.1	3.3	0.0	3.4	3.0	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.1	0.0	2.9	0.0	0.1	0.0	0.1	0.3	0.0	0.0
Jun	0.1	0.1	0.2	0.1	0.0	2.5	0.7	2.8	0.1	4.9	0.0	1.7	0.0	1.7	1.7	0.0	0.0
Jul	0.2	0.3	0.7	0.4	0.2	9.5	3.4	10.1	0.5	13.3	0.2	8.8	0.0	9.1	7.5	0.0	0.0
Aug	0.3	0.4	1.1	0.5	0.3	13.6	5.0	14.4	0.7	18.2	0.2	12.9	0.0	13.3	10.9	0.0	0.0
Sep	0.3	0.4	1.1	0.5	0.3	13.6	5.1	14.4	0.7	18.3	0.2	13.0	0.0	13.3	11.0	0.0	0.0
Oct	0.3	0.4	1.0	0.5	0.1	14.3	3.5	16.6	0.4	20.3	0.3	12.7	0.0	13.0	10.4	0.0	0.0
Nov	0.3	0.4	1.0	0.5	0.1	15.0	3.7	17.4	0.4	21.2	0.3	13.3	0.0	13.7	10.9	0.0	0.0
Dec	0.3	0.4	1.0	0.5	0.3	13.1	4.9	13.9	0.7	17.7	0.2	12.4	0.0	12.8	10.5	0.0	0.0
Avg	0.20	0.24	0.65	0.32	0.15	8.80	2.84	9.62	0.40	12.67	0.16	7.90	0.00	8.13	6.74	0.00	0.00
Alt 2 Change in Salinity																	
Jan	0.0	0.5	1.7	-0.1	-0.1	1.0	1.1	1.9	-0.2	1.8	-0.1	-4.0	0.0	-4.0	-2.9	0.0	0.0
Feb	0.0	0.3	1.1	-0.1	-0.1	0.5	0.7	1.2	-0.1	1.4	-0.1	-2.6	0.0	-2.7	-2.0	0.0	0.0
Mar	0.0	0.2	0.6	0.0	0.0	0.1	0.4	0.7	-0.1	1.1	0.0	-1.5	0.0	-1.5	-1.3	0.0	0.0
Apr	0.0	0.2	0.7	0.0	0.0	0.2	0.4	0.8	-0.1	1.1	0.0	-1.6	0.0	-1.6	-1.3	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.7	0.0	-0.1	0.0	-0.1	-0.3	0.0	0.0
Jun	0.0	0.1	0.3	0.0	0.0	-0.1	0.2	0.4	0.0	0.9	0.0	-0.8	0.0	-0.9	-0.8	0.0	0.0
Jul	0.0	0.6	1.8	-0.1	-0.1	1.1	1.2	2.0	-0.2	1.9	-0.1	-4.3	0.0	-4.3	-3.1	0.0	0.0
Aug	0.0	0.8	2.6	-0.1	-0.2	1.8	1.7	3.0	-0.3	2.4	-0.1	-6.3	0.0	-6.3	-4.4	0.0	0.0
Sep	0.0	0.8	2.6	-0.1	-0.2	1.8	1.7	3.0	-0.3	2.4	-0.1	-6.3	0.0	-6.4	-4.4	0.0	0.0
Oct	0.0	0.9	2.8	-0.1	0.0	1.3	3.4	1.0	0.1	0.6	-0.1	-5.9	0.0	-6.0	-3.7	0.0	0.0
Nov	0.0	0.9	2.9	-0.1	0.0	1.4	3.6	1.0	0.1	0.6	-0.1	-6.2	0.0	-6.3	-3.9	0.0	0.0
Dec	0.0	0.8	2.5	-0.1	-0.2	1.7	1.7	2.9	-0.3	2.3	-0.1	-6.0	0.0	-6.1	-4.2	0.0	0.0
Avg	0.0	0.5	1.6	-0.1	-0.1	0.9	1.3	1.5	-0.1	1.4	-0.1	-3.8	0.0	-3.8	-2.7	0.0	0.0
Alt 3 Change in Salinity																	
Jan	0.0	0.5	1.6	-0.1	-0.1	0.9	1.0	1.7	-0.2	1.5	-0.1	-4.1	0.0	-4.1	-2.9	0.0	0.0
Feb	0.0	0.3	1.0	-0.1	-0.1	0.4	0.7	1.0	-0.1	1.0	-0.1	-2.7	0.0	-2.7	-2.0	0.0	0.0
Mar	0.0	0.2	0.6	0.0	0.0	0.1	0.4	0.7	-0.1	1.1	0.0	-1.5	0.0	-1.6	-1.3	0.0	0.0
Apr	0.0	0.2	0.6	0.0	-0.1	0.2	0.4	0.7	-0.1	1.1	0.0	-1.6	0.0	-1.6	-1.3	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.7	0.0	-0.1	0.0	-0.1	-0.3	0.0	0.0
Jun	0.0	0.1	0.3	0.0	0.0	-0.1	0.2	0.4	0.0	0.9	0.0	-0.9	0.0	-0.9	-0.8	0.0	0.0
Jul	0.0	0.5	1.7	-0.1	-0.1	1.0	1.1	1.9	-0.2	1.6	-0.1	-4.3	0.0	-4.4	-3.1	0.0	0.0
Aug	0.0	0.8	2.5	-0.1	-0.2	1.7	1.6	2.9	-0.3	2.3	-0.1	-6.3	0.0	-6.4	-4.4	0.0	0.0
Sep	0.0	0.8	2.5	-0.1	-0.2	1.7	1.6	2.9	-0.3	2.3	-0.1	-6.4	0.0	-6.4	-4.5	0.0	0.0
Oct	0.0	0.8	2.6	-0.1	0.0	1.2	3.3	0.9	0.1	0.5	-0.1	-6.0	0.0	-6.1	-3.8	0.0	0.0
Nov	0.0	0.9	2.8	-0.1	0.0	1.3	3.4	1.0	0.1	0.6	-0.2	-6.3	0.0	-6.4	-4.0	0.0	0.0
Dec	0.0	0.7	2.4	-0.1	-0.2	1.7	1.5	2.8	-0.3	2.2	-0.1	-6.1	0.0	-6.2	-4.3	0.0	0.0
Avg	0.0	0.5	1.6	-0.1	-0.1	0.8	1.3	1.4	-0.1	1.3	-0.1	-3.9	0.0	-3.9	-2.7	0.0	0.0
Alt 4 Change in Salinity																	
Jan	0.0	0.1	-0.4	0.1	-0.1	2.0	3.0	2.7	0.9	2.2	-0.1	-3.5	0.0	-3.5	-2.5	0.0	0.0
Feb	0.0	0.1	-0.2	0.1	-0.1	1.2	1.9	1.8	0.6	1.7	0.0	-2.3	0.0	-2.3	-1.7	0.0	0.0
Mar	0.0	0.0	-0.1	0.0	0.0	0.5	1.1	1.0	0.3	1.3	0.0	-1.3	0.0	-1.3	-1.1	0.0	0.0
Apr	0.0	0.0	-0.2	0.0	0.0	0.6	1.2	1.1	0.4	1.3	0.0	-1.4	0.0	-1.4	-1.2	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.7	0.0	-0.1	0.0	-0.1	-0.3	0.0	0.0
Jun	0.0	0.0	-0.1	0.0	0.0	0.1	0.6	0.6	0.2	1.0	0.0	-0.7	0.0	-0.7	-0.7	0.0	0.0
Jul	0.0	0.1	-0.4	0.1	-0.1	2.2	3.2	2.9	1.0	2.3	-0.1	-3.7	0.0	-3.7	-2.6	0.0	0.0
Aug	0.0	0.2	-0.6	0.1	-0.2	3.4	4.7	4.3	1.4	3.1	-0.1	-5.4	0.0	-5.5	-3.7	0.0	0.0
Sep	0.0	0.2	-0.6	0.1	-0.2	3.4	4.7	4.3	1.4	3.1	-0.1	-5.4	0.0	-5.5	-3.7	0.0	0.0
Oct	0.0	0.3	-0.5	0.2	0.0	2.9	6.4	2.3	1.8	1.3	-0.1	-5.1	0.0	-5.1	-3.0	0.0	0.0
Nov	0.0	0.3	-0.5	0.2	0.0	3.1	6.7	2.5	1.9	1.4	-0.1	-5.3	0.0	-5.4	-3.2	0.0	0.0
Dec	0.0	0.2	-0.6	0.1	-0.2	3.3	4.5	4.1	1.4	3.0	-0.1	-5.2	0.0	-5.3	-3.6	0.0	0.0
Avg	0.0	0.1	-0.3	0.1	-0.1	1.9	3.2	2.3	0.9	1.9	-0.1	-3.3	0.0	-3.3	-2.3	0.0	0.0
Alt 5 Change in Salinity																	
Jan	0.0	0.1	-0.4	0.1	-0.1	2.0	2.9	2.7	0.8	2.2	-0.1	-3.5	0.0	-3.6	-2.5	0.0	0.0
Feb	0.0	0.1	-0.2	0.1	-0.1	1.1	1.9	1.7	0.5	1.6	0.0	-2.3	0.0	-2.4	-1.8	0.0	0.0
Mar	0.0	0.0	-0.1	0.0	0.0	0.5	1.1	1.0	0.3	1.3	0.0	-1.4	0.0	-1.4	-1.1	0.0	0.0
Apr	0.0	0.0	-0.2	0.0	0.0	0.6	1.1	1.1	0.3	1.3	0.0	-1.4	0.0	-1.4	-1.2	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.7	0.0	-0.1	0.0	-0.1	-0.3	0.0	0.0
Jun	0.0	0.0	-0.1	0.0	0.0	0.1	0.6	0.6	0.2	1.0	0.0	-0.8	0.0	-0.8	-0.8	0.0	0.0
Jul	0.0	0.1	-0.4	0.1	-0.1	2.1	3.1	2.9	0.9	2.3	-0.1	-3.8	0.0	-3.8	-2.7	0.0	0.0
Aug	0.0	0.2	-0.6	0.1	-0.2	3.3	4.6	4.2	1.3	3.1	-0.1	-5.6	0.0	-5.6	-3.8	0.0	0.0
Sep	0.0	0.2	-0.6	0.1	-0.2	3.4	4.6	4.3	1.3	3.1	-0.1	-5.6	0.0	-5.6	-3.8	0.0	0.0
Oct	0.0	0.2	-0.5	0.2	0.0	2.9	6.3	2.3	1.6	1.3	-0.1	-5.2	0.0	-5.2	-3.1	0.0	0.0
Nov	0.0	0.3	-0.5	0.2	0.0	3.0	6.6	2.4	1.7	1.4	-0.1	-5.5	0.0	-5.5	-3.3	0.0	0.0
Dec	0.0	0.2	-0.6	0.1	-0.2	3.2	4.4	4.1	1.2	3.0	-0.1	-5.4	0.0	-5.4	-3.7	0.0	0.0
Avg	0.0	0.1	-0.4	0.1	-0.1	1.8	3.1	2.3	0.8	1.8	-0.1	-3.4	0.0	-3.4	-2.3	0.0	0.0
Alt 6 Change in Salinity																	
Jan	0.0	0.1	0.6	-0.1	-0.1	0.2	-1.1	1.4	-0.3	1.5	0.0	-0.3	0.0	-0.3	-0.2	0.0	0.0
Feb	0.0	0.1	0.4	-0.1	-0.1	0.0	-0.7	1.0	-0.2	1.3	0.0	-0.2	0.0	-0.2	-0.2	0.0	0.0
Mar	0.0	0.1	0.2	0.0	0.0	-0.1	-0.4	0.7	-0.1	1.3	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0
Apr	0.0	0.1	0.2	0.0	-0.1	-0.1	-0.4	0.7	-0.1	1.3	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun	0.0	0.0	0.1	0.0	0.0	-0.2	-0.2	0.5	-0.1	1.2	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0
Jul	0.0	0.2	0.6	-0.1	-0.1	0.3	-1.2	1.5	-0.3	1.6	0.0	-0.4	0.0	-0.4	-0.2	0.0	0.0
Aug	0.0	0.2	0.9	-0.1	-0.2	0.6	-1.8	2.1	-0.5	1.8	0.0	-0.5	0.0	-0.5	-0.3	0.0	0.0
Sep	0.0	0.2	0.9	-0.1	-0.2	0.6	-1.8	2.1	-0.5	1.9	0.0	-0.5	0.0	-0.5	-0.3	0.0	0.0
Oct	0.0	0.3	1.0	-0.1	0.0	0.1	-0.2	0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.4	0.0	0.0
Nov	0.0	0.3	1.1	-0.1	0.0	0.1	-0.2	0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.4	0.0	0.0
Dec	0.0	0.2	0.9	-0.1	-0.2	0.6	-1.7	2.0	-0.4	1.8	0.0	-0.5	0.0	-0.5	-0.3	0.0	0.0
Avg	0.0	0.1	0.6	-0.1	-0.1	0.1	-0.8	1.0	-0.2	1.2	0.0	-0.2	0.0	-0.2	-0.1	0.0	0.0
Alt 7 Change in Salinity																	
Jan	0.0	0.0	-0.1	0.0	-0.1	0.2	-1.0	1.4	-0.2	1.5	0.0	-0.3	0.0	-0.3	-0.5	0.0	0.0
Feb	0.0	0.0	0.0	0.0	-0.1	0.0	-0.7	1.0	-0.1	1.4	0.0	-0.2	0.0	-0.2	-0.3	0.0	0.0
Mar	0.0	0.0	0.0	0.0	0.0	-0.1	-0.4	0.6	-0.1	1.2							

RMA-11 Maximum Monthly Salinity Change Results

(See Section L2-4.5 for an explanation of these figures and tables.)

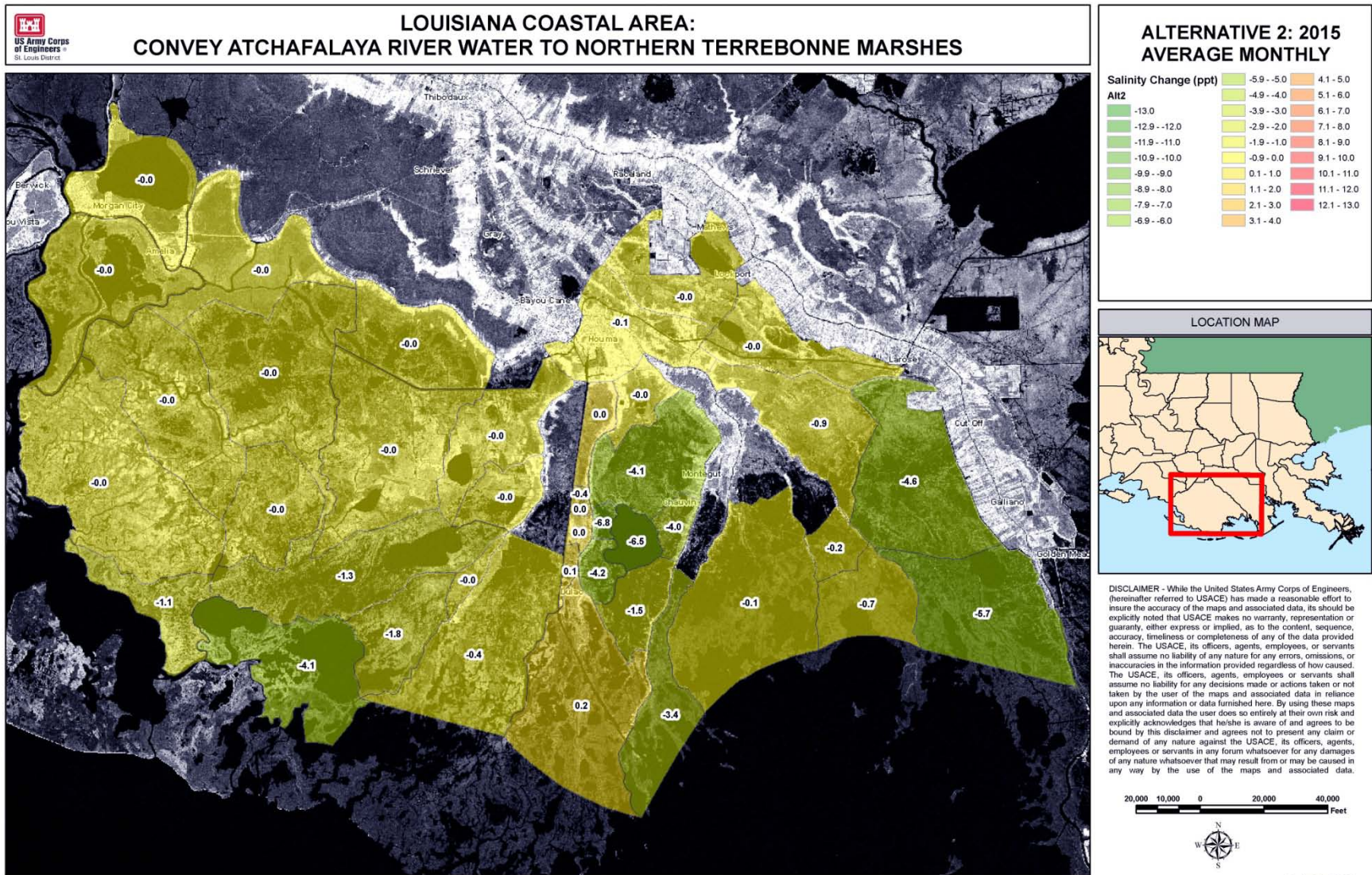
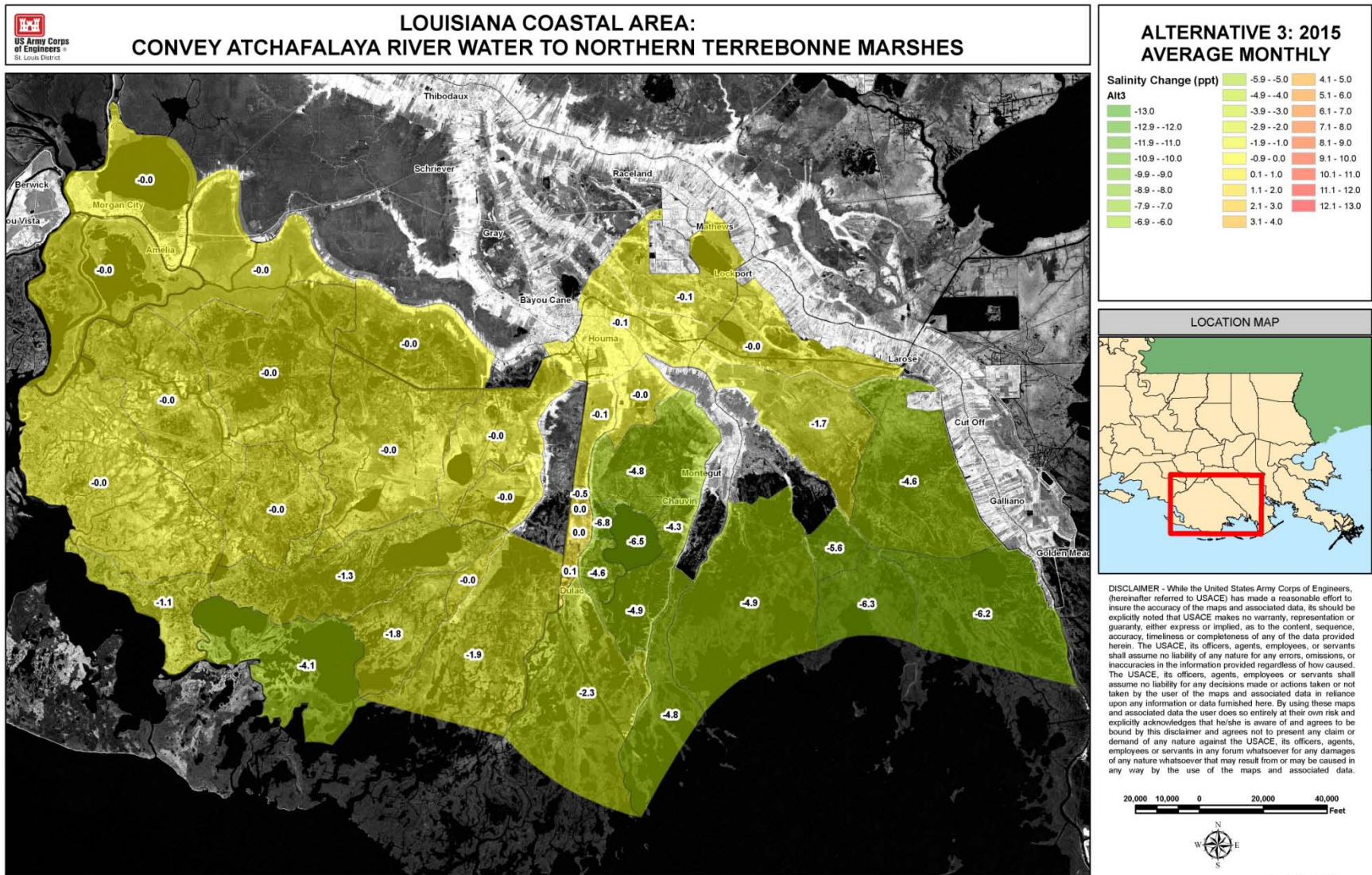


Figure L2-126 - Maximum monthly salinity change for Alternative 2, 2015



1400

Figure L2-127 - Maximum monthly salinity change for Alternative 3, 2015

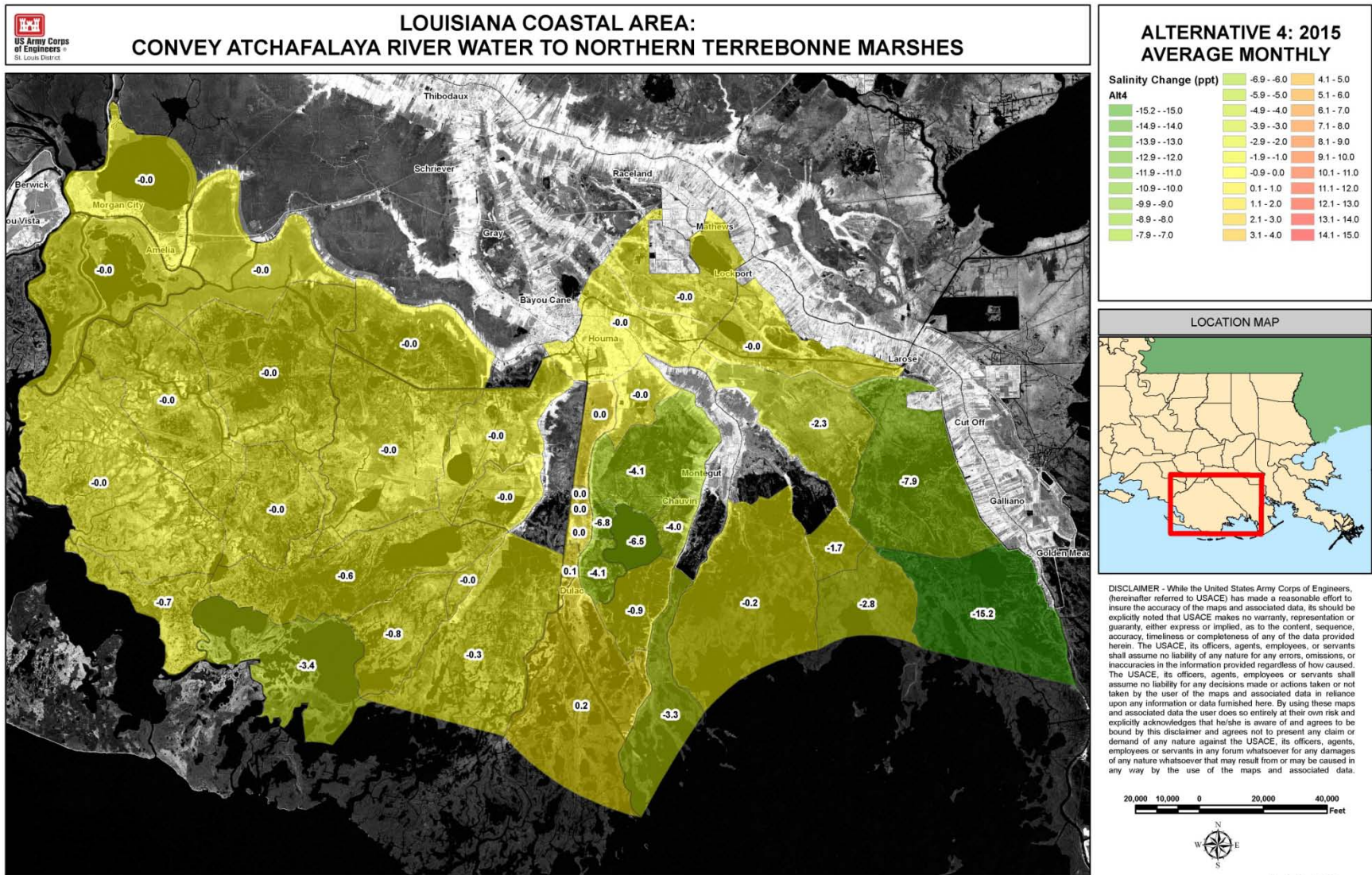
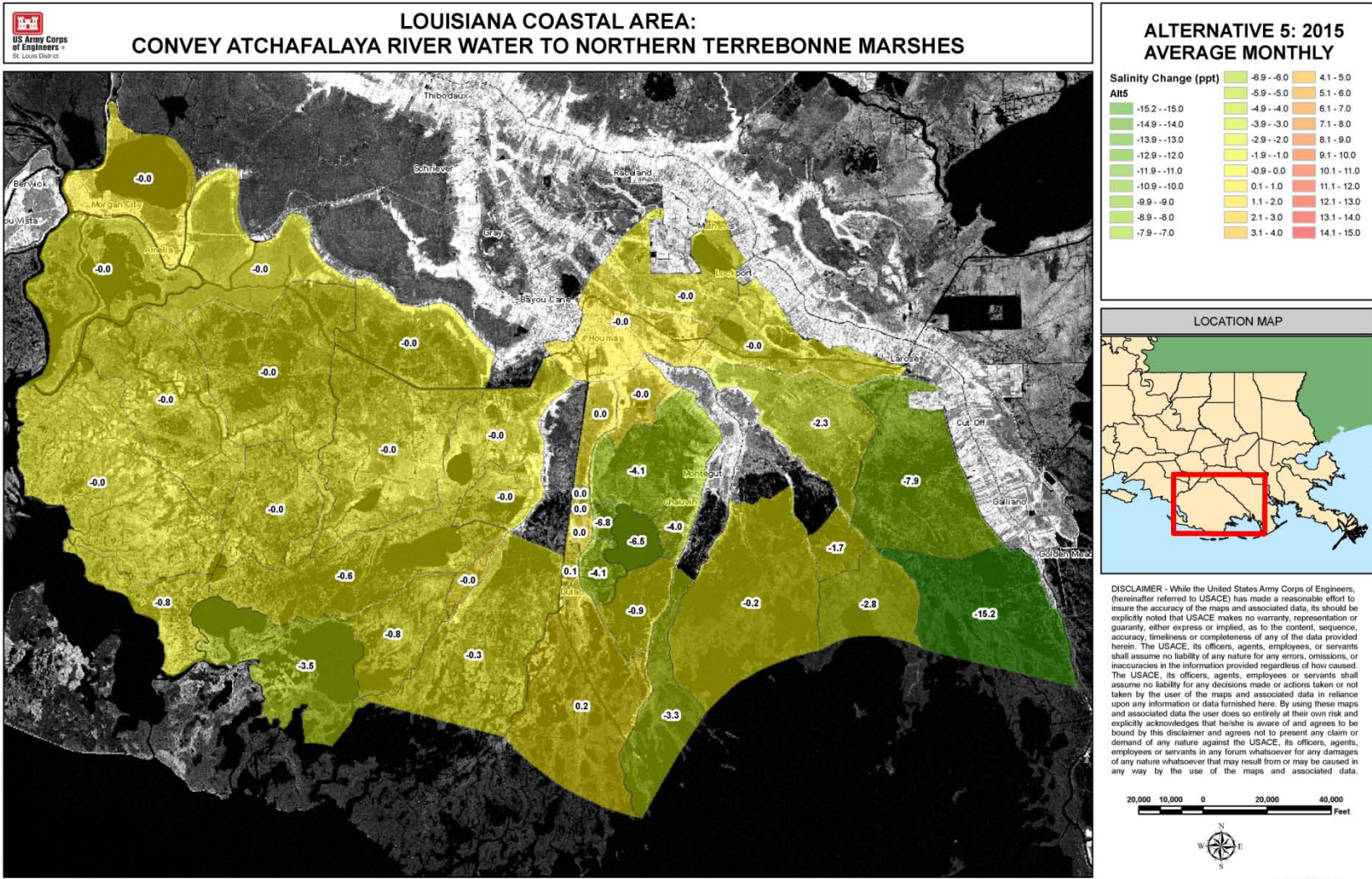


Figure L2-128 - Maximum monthly salinity change for Alternative 4, 2015



1405 Figure L2-129 - Maximum monthly salinity change for Alternative 5, 2015

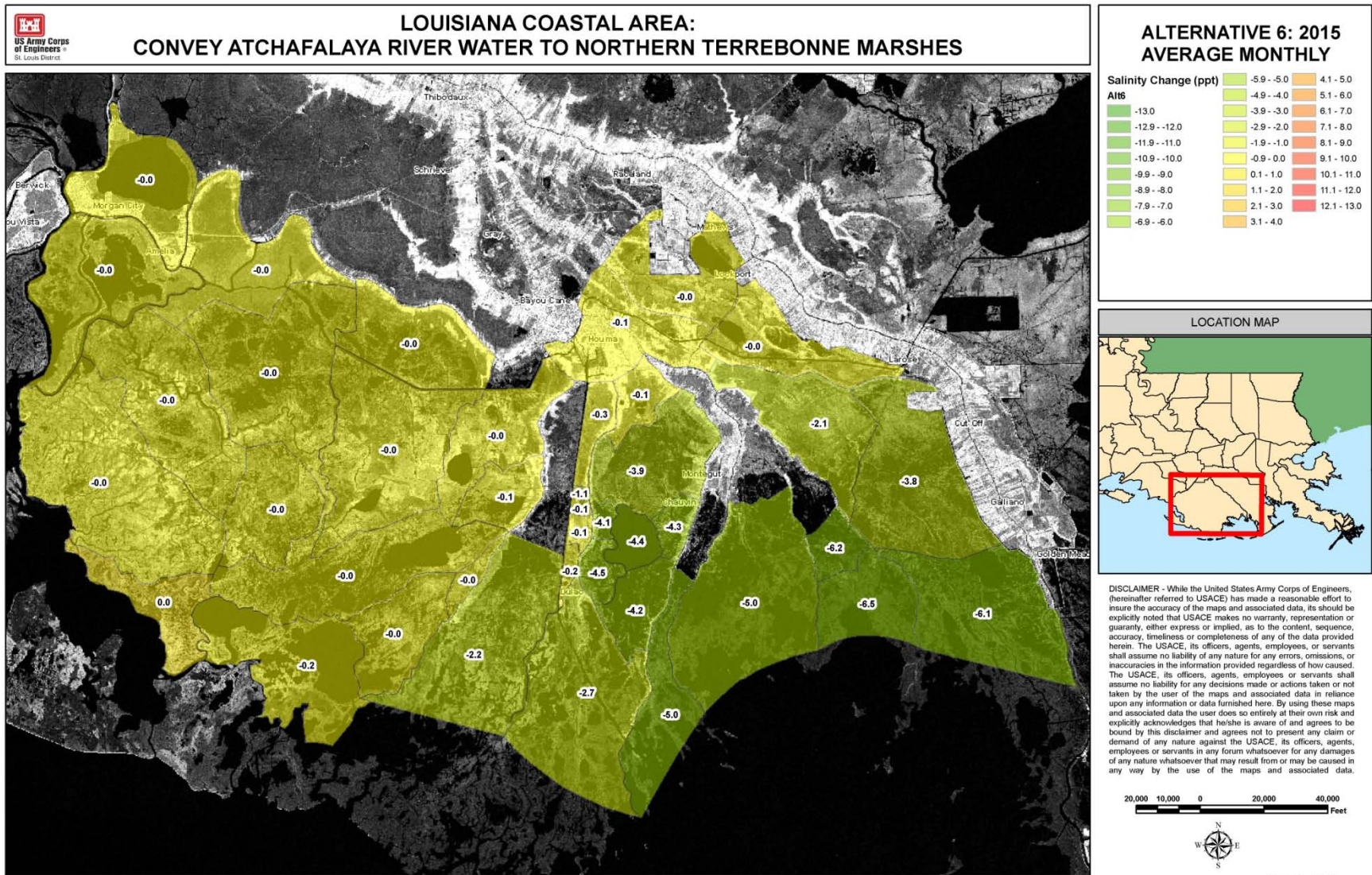
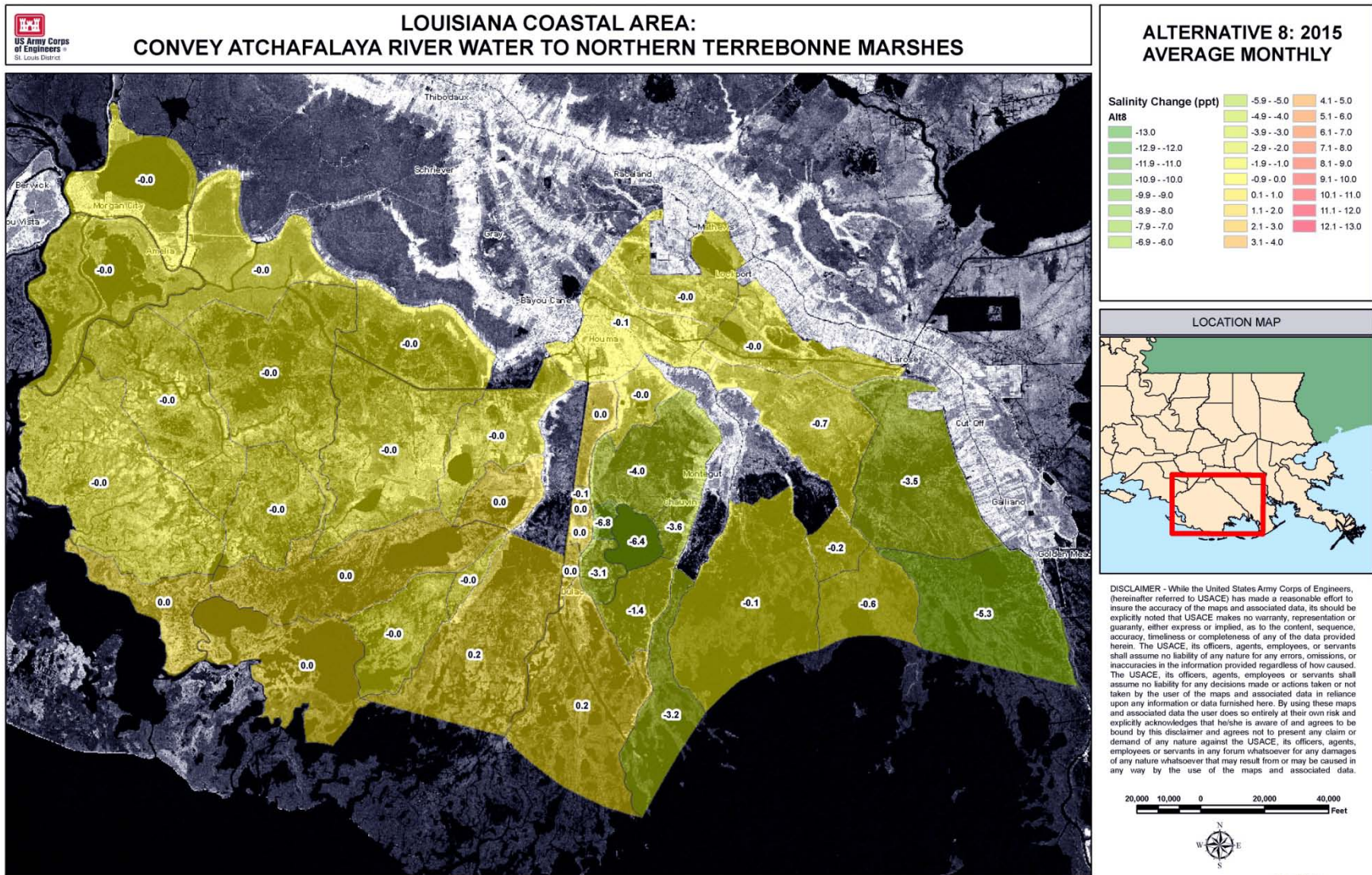


Figure L2-130 - Maximum monthly salinity change for Alternative 6, 2015



1410 Figure L2-131 - Maximum monthly salinity change for Alternative 8, 2015

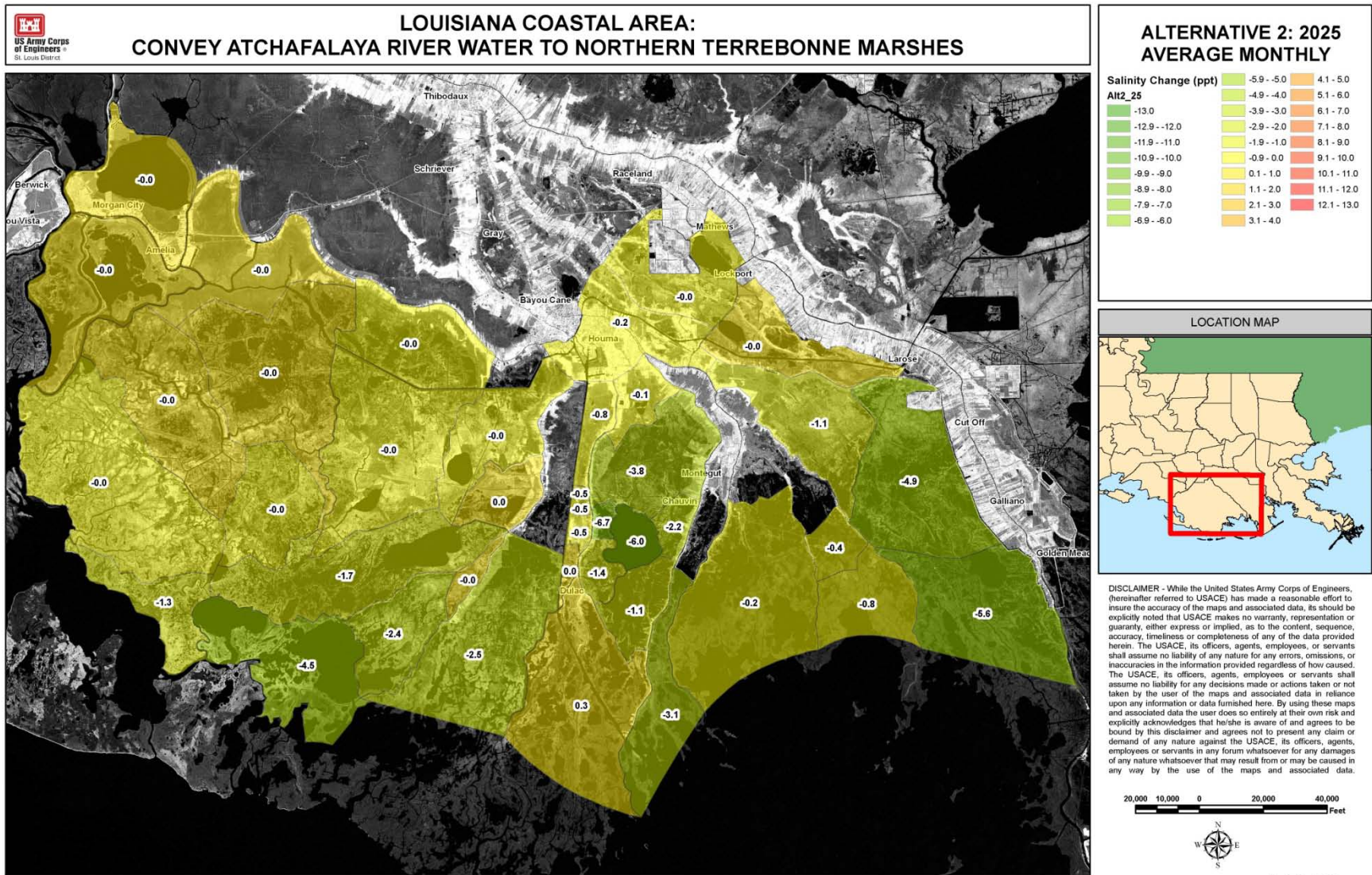


Figure L2-132 - Maximum monthly salinity change for Alternative 2, 2025

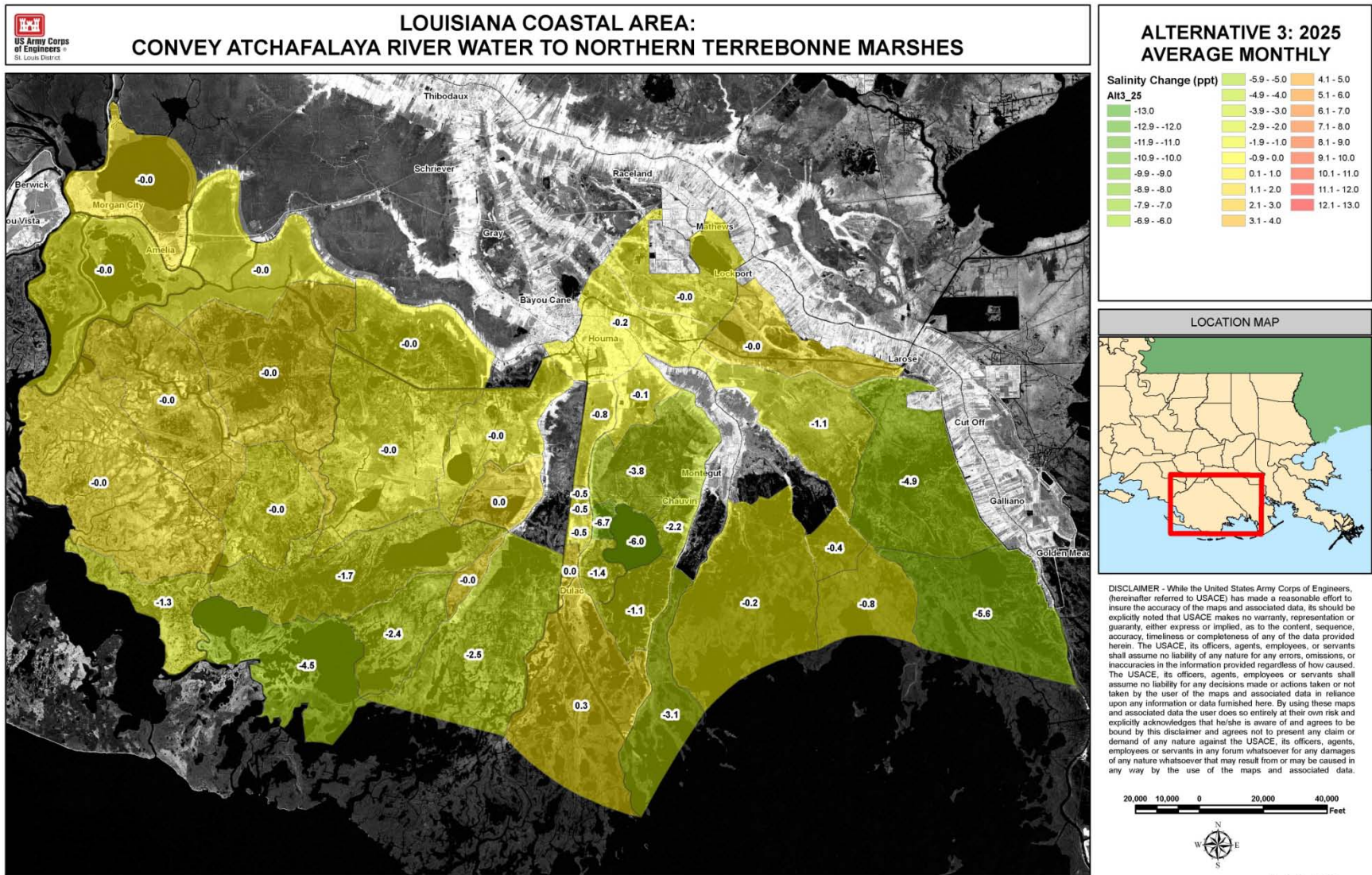
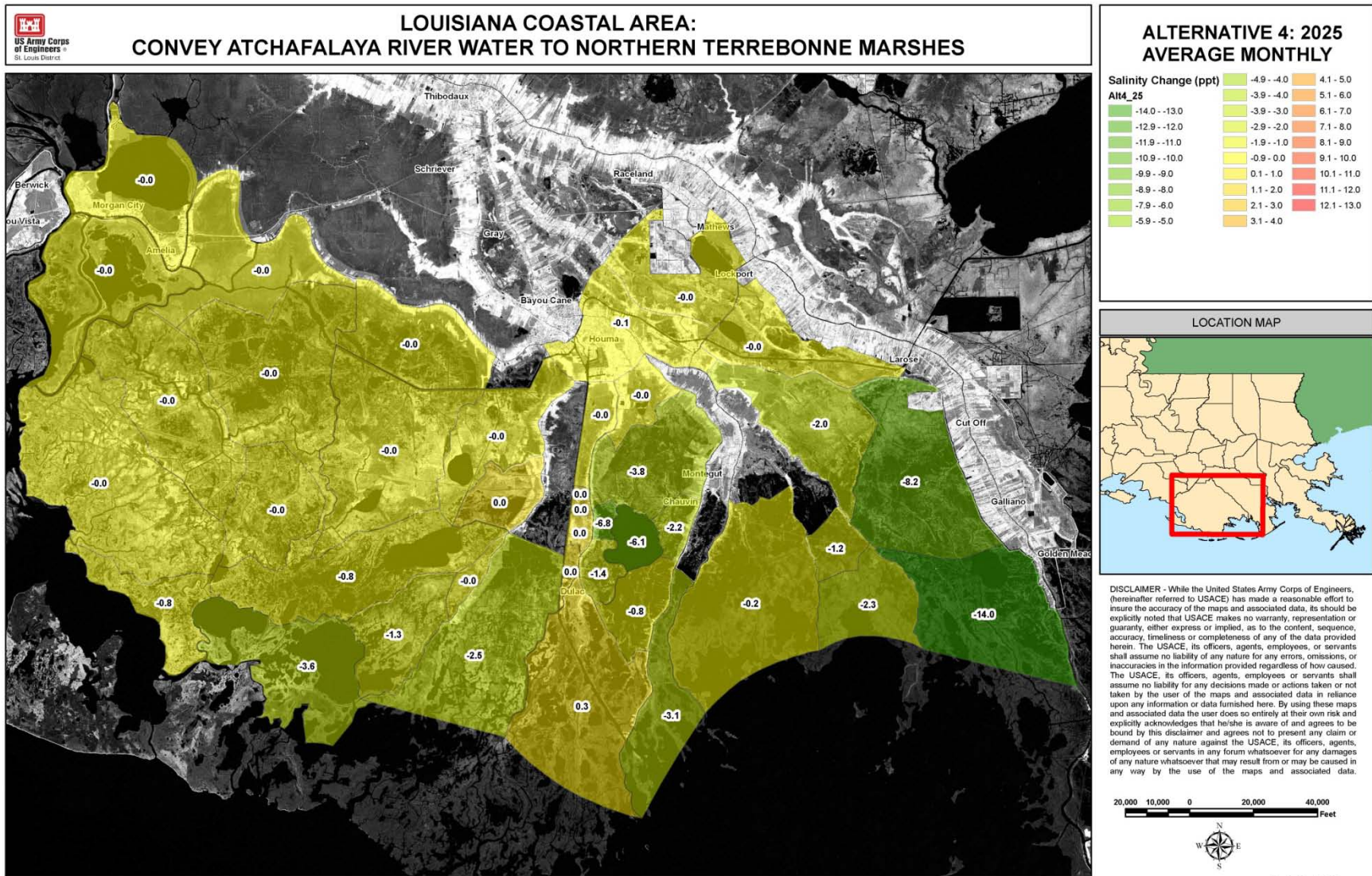


Figure L2-133 - Maximum monthly salinity change for Alternative 3, 2025



1415

Figure L2-134 - Maximum monthly salinity change for Alternative 4, 2025

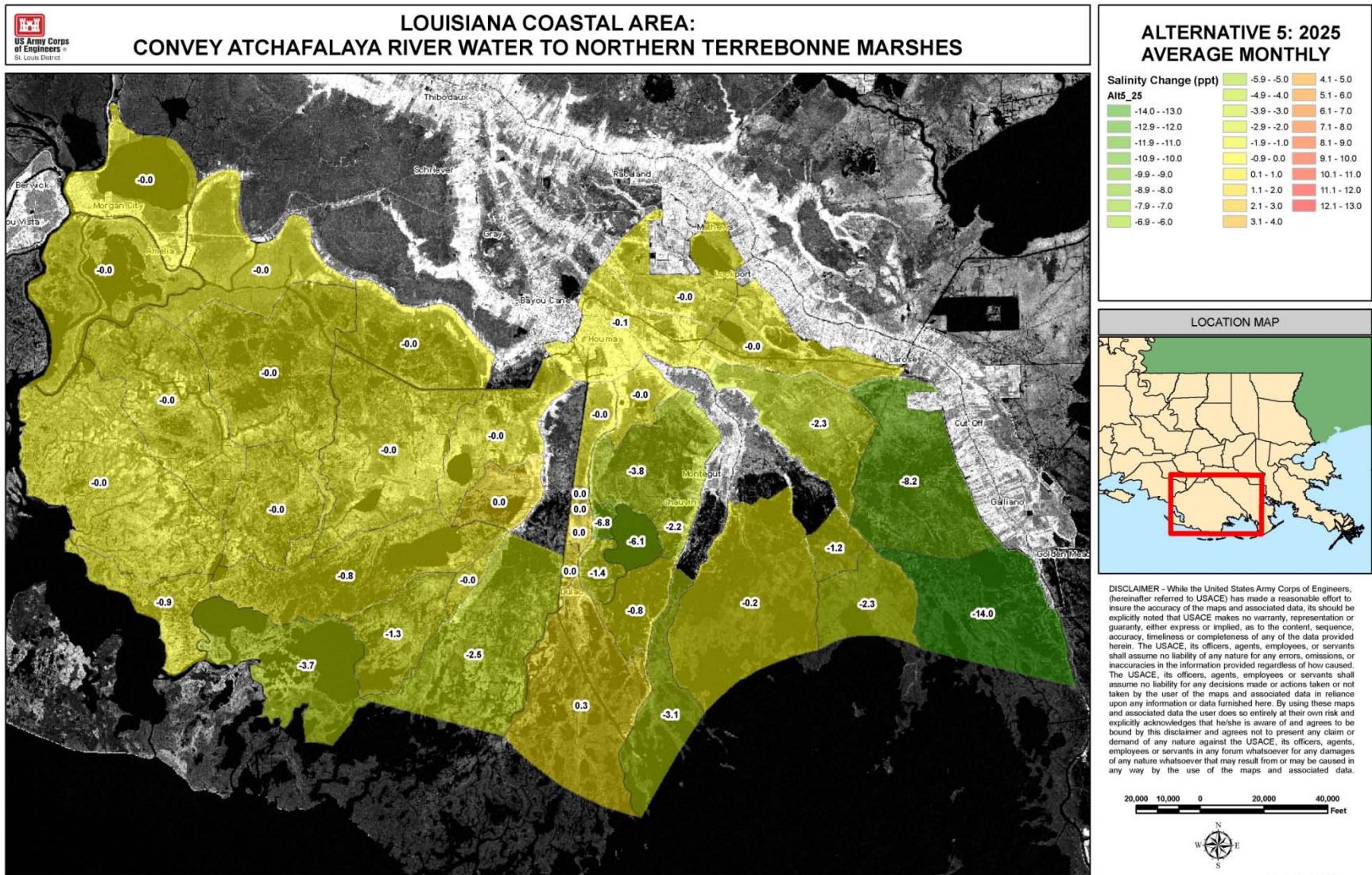
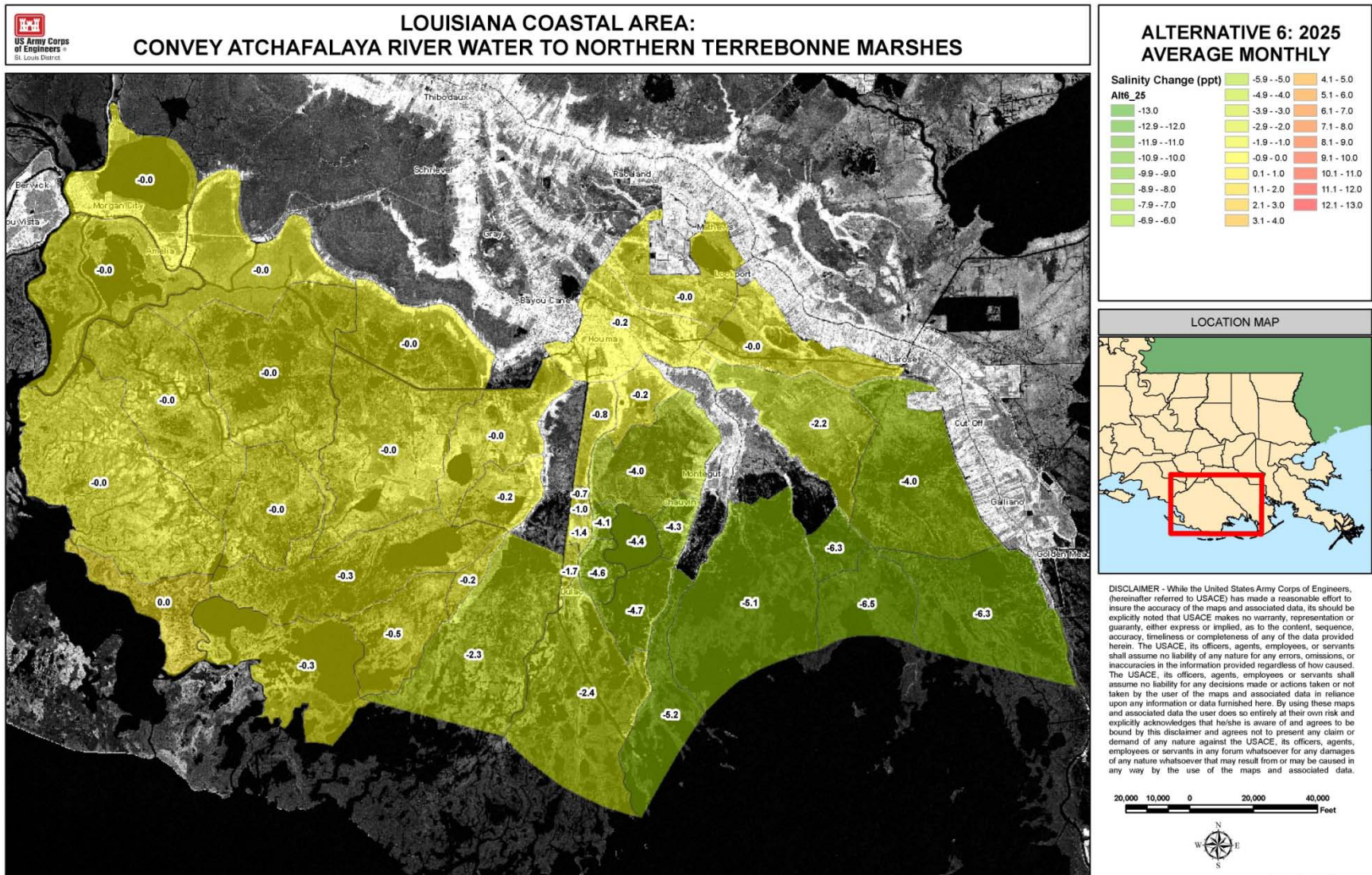


Figure L2-135 - Maximum monthly salinity change for Alternative 5, 2025



1420 Figure L2-136 - Maximum monthly salinity change for Alternative 6, 2025

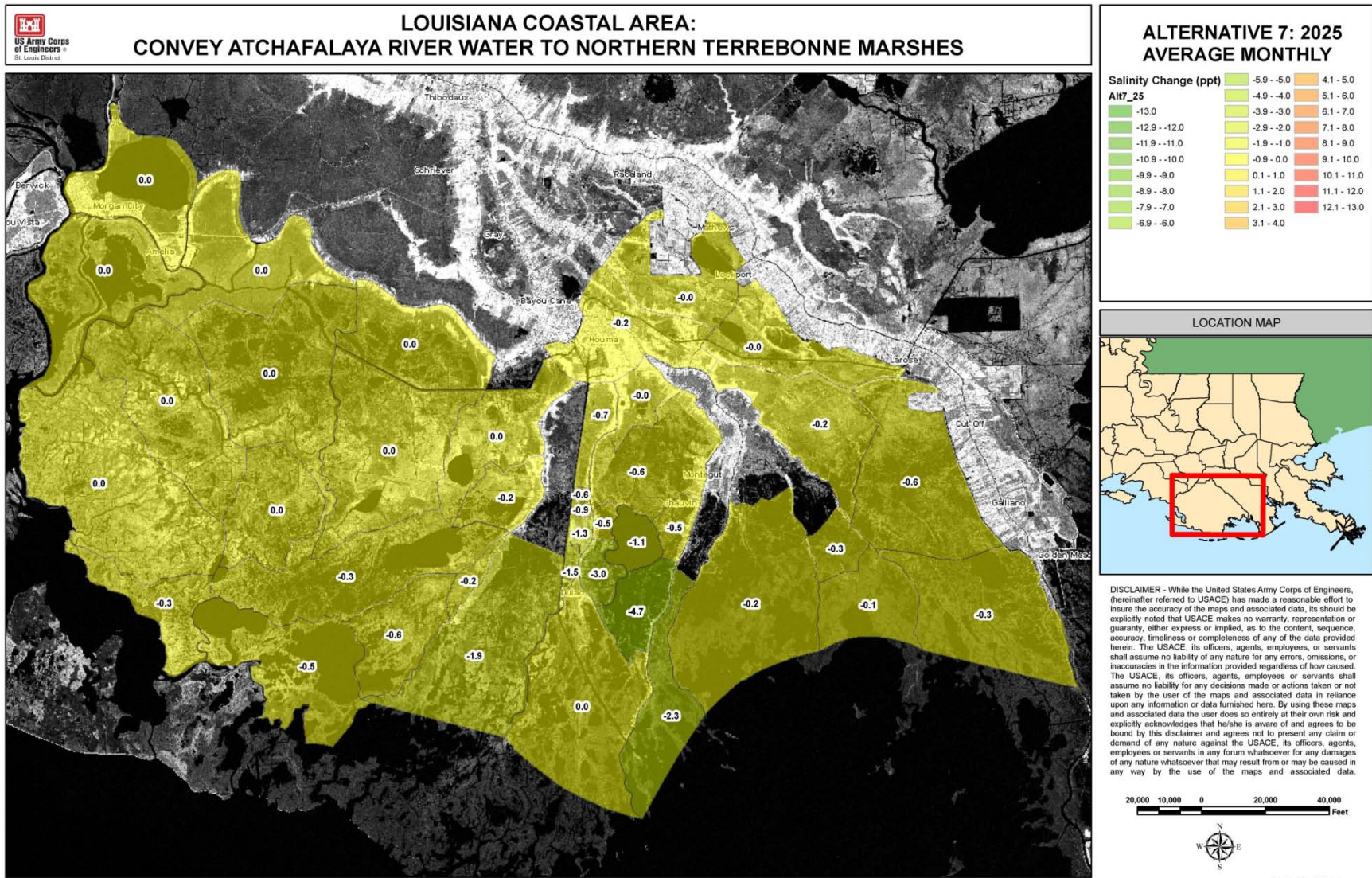
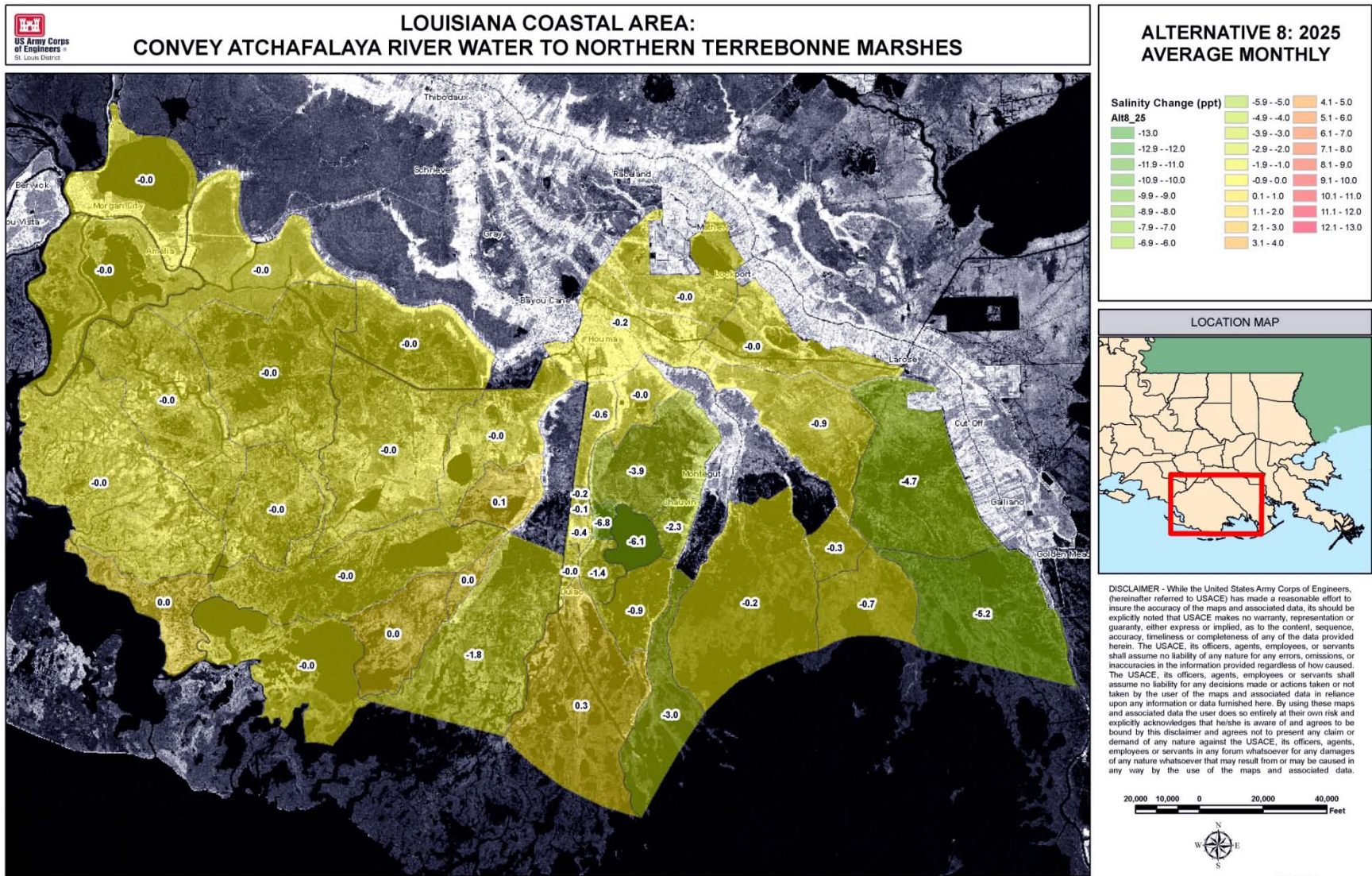


Figure L2-137 - Maximum monthly salinity change for Alternative 7, 2025



1425 Figure L2-138 - Maximum monthly salinity change for Alternative 8, 2025

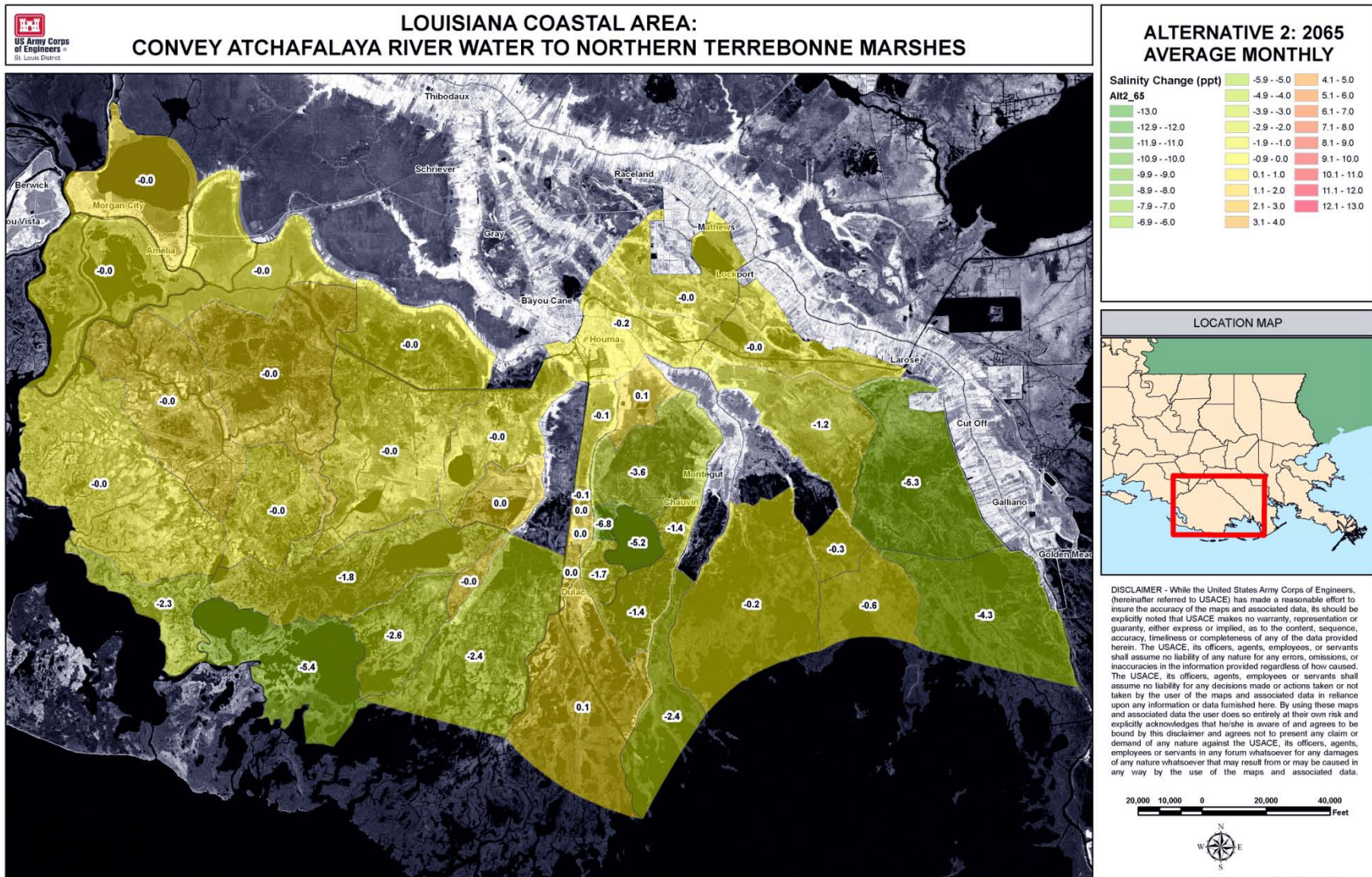


Figure L2-139 - Maximum monthly salinity change for Alternative 2, 2065

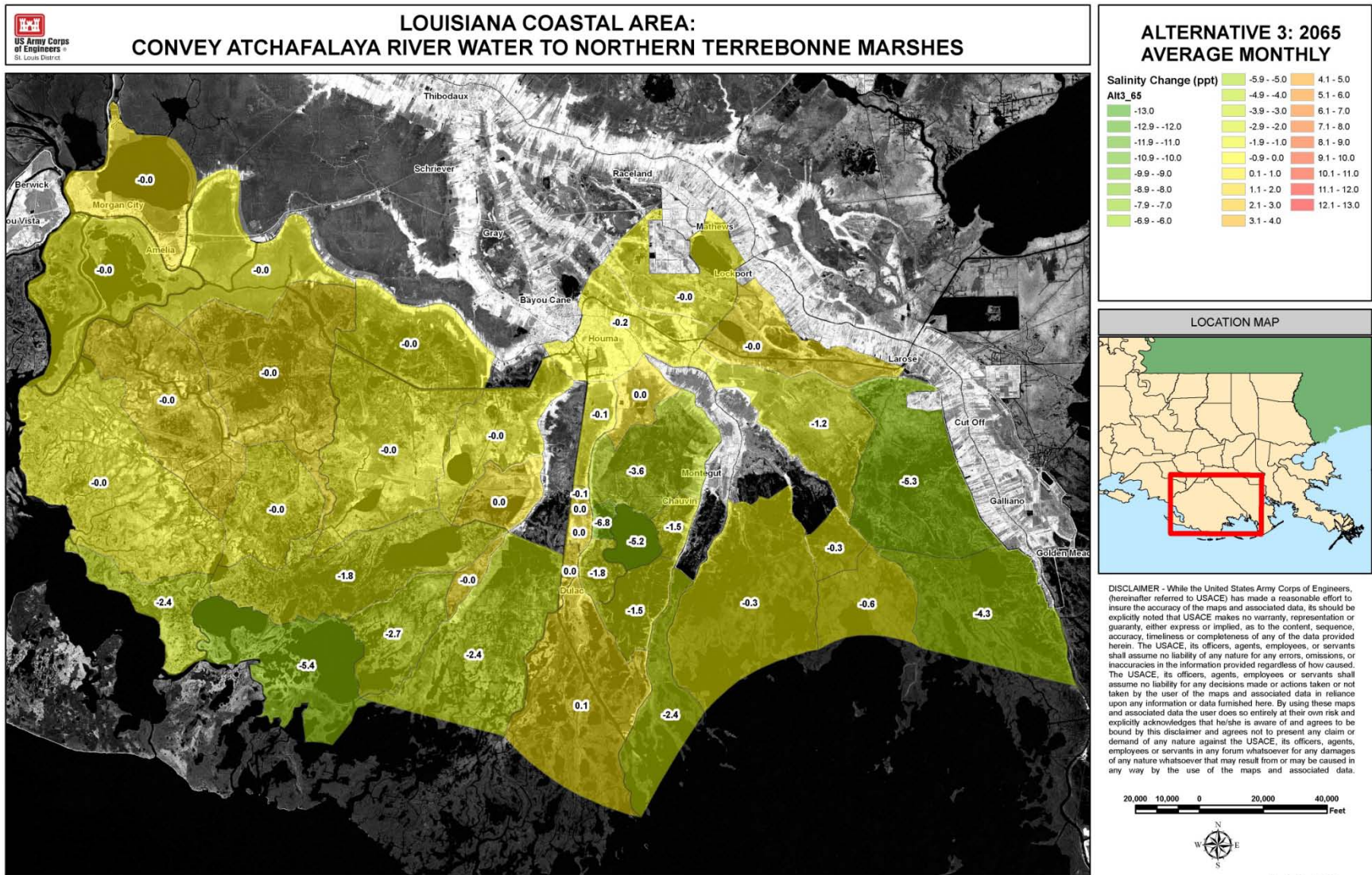
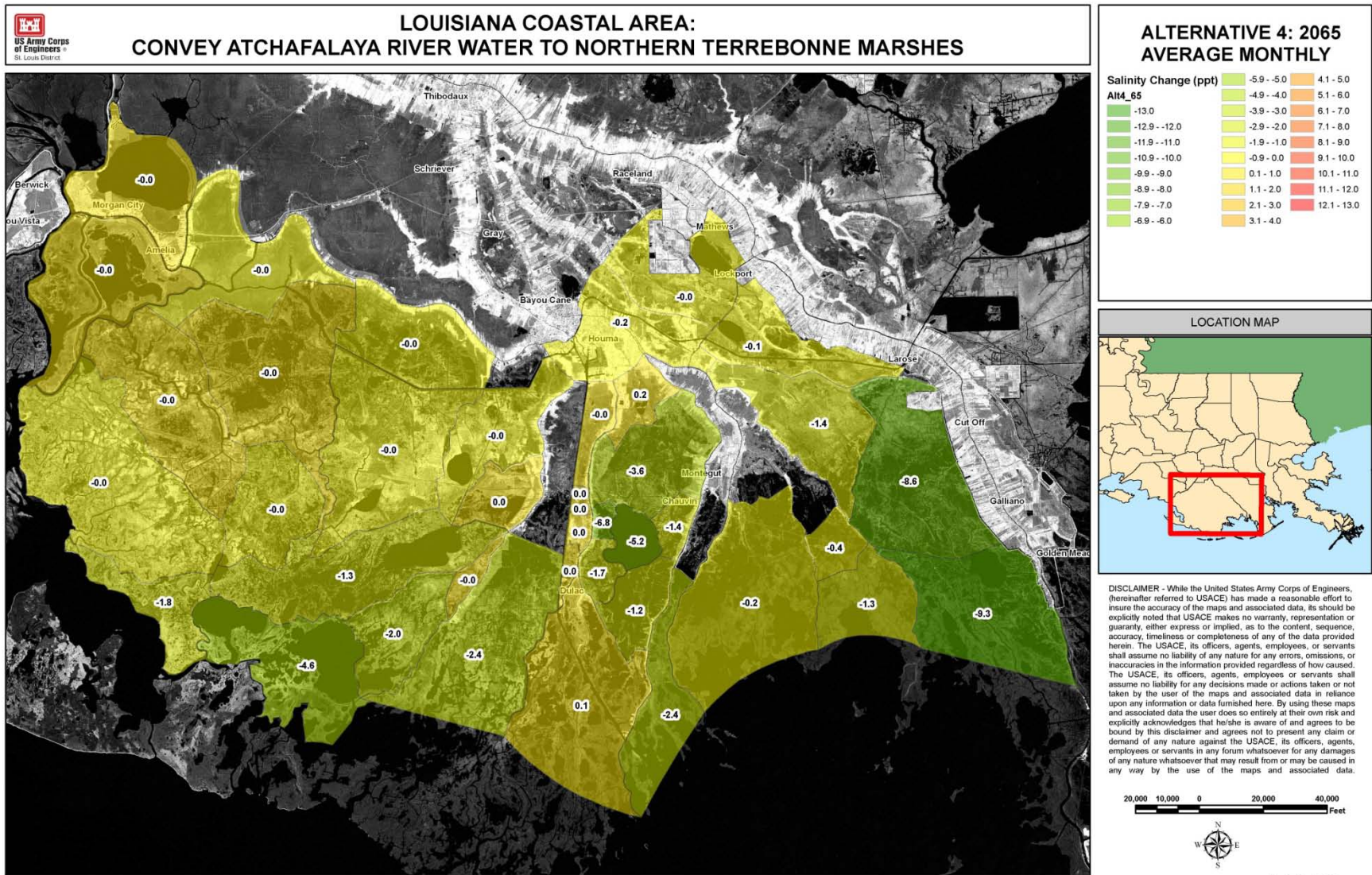


Figure L2-140 - Maximum monthly salinity change for Alternative 3, 2065



1430

Figure L2-141 - Maximum monthly salinity change for Alternative 4, 2065

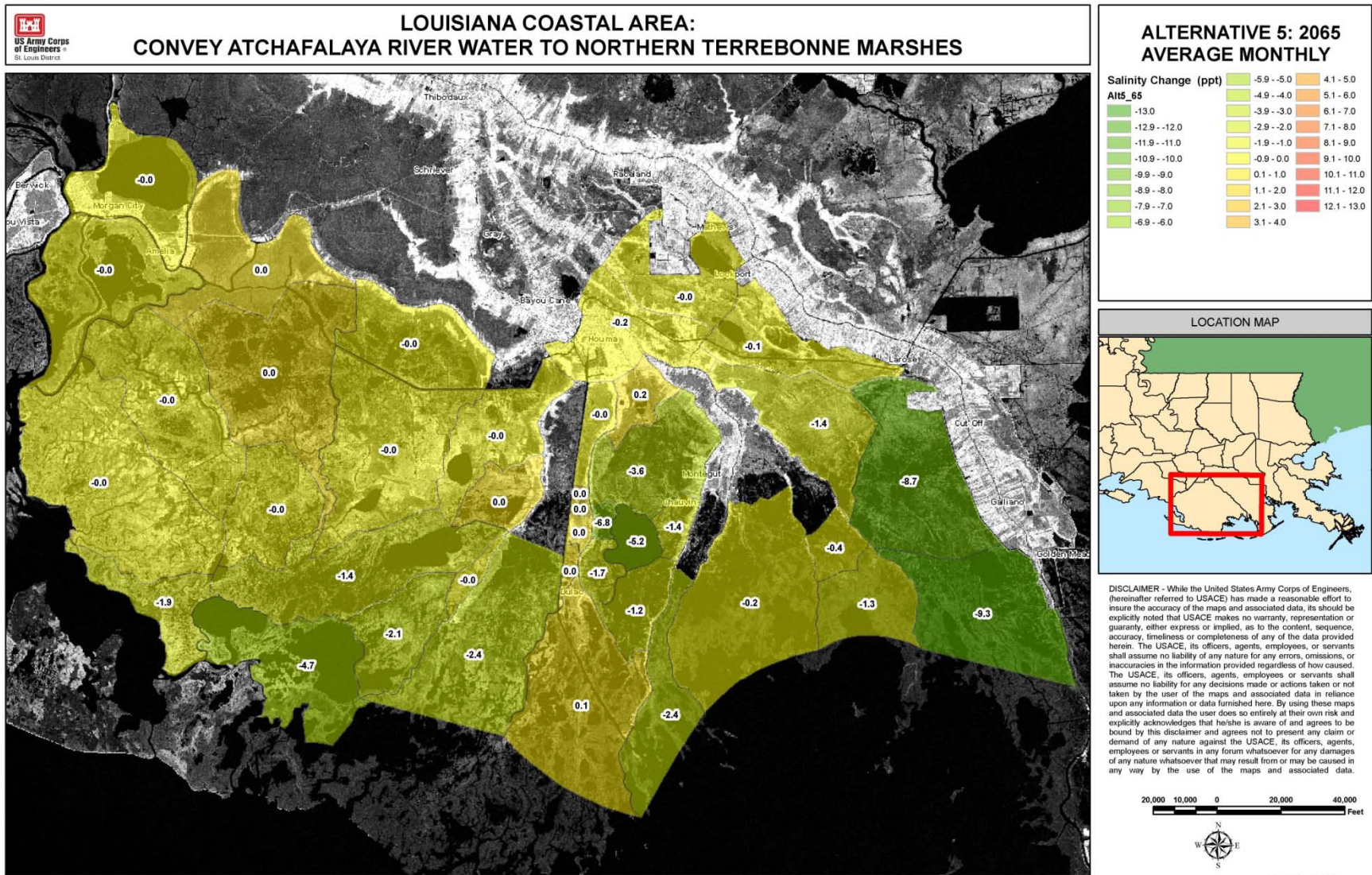
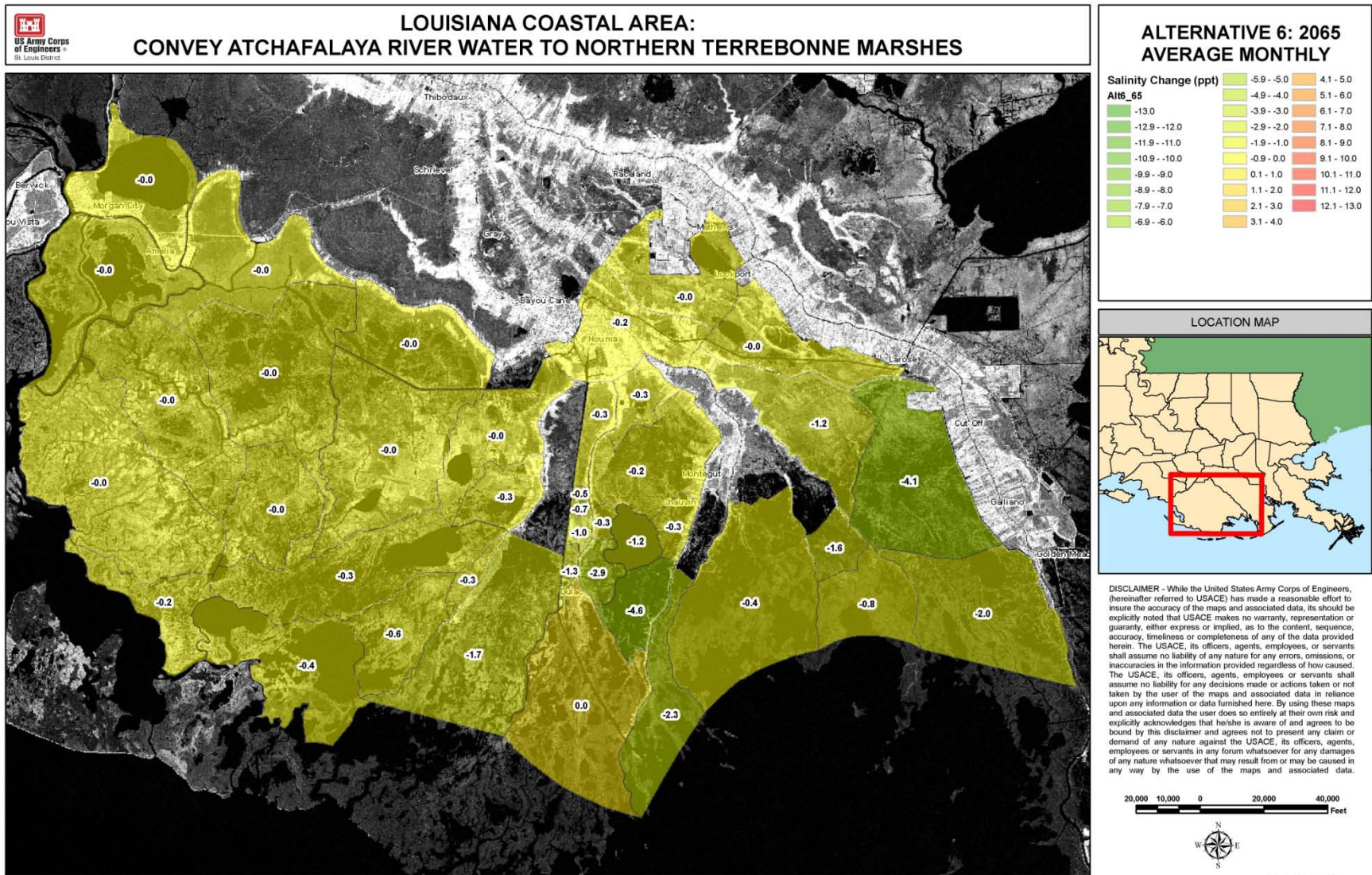


Figure L2-142 - Maximum monthly salinity change for Alternative 5, 2065



1435 Figure L2-143 - Maximum monthly salinity change for Alternative 6, 2065

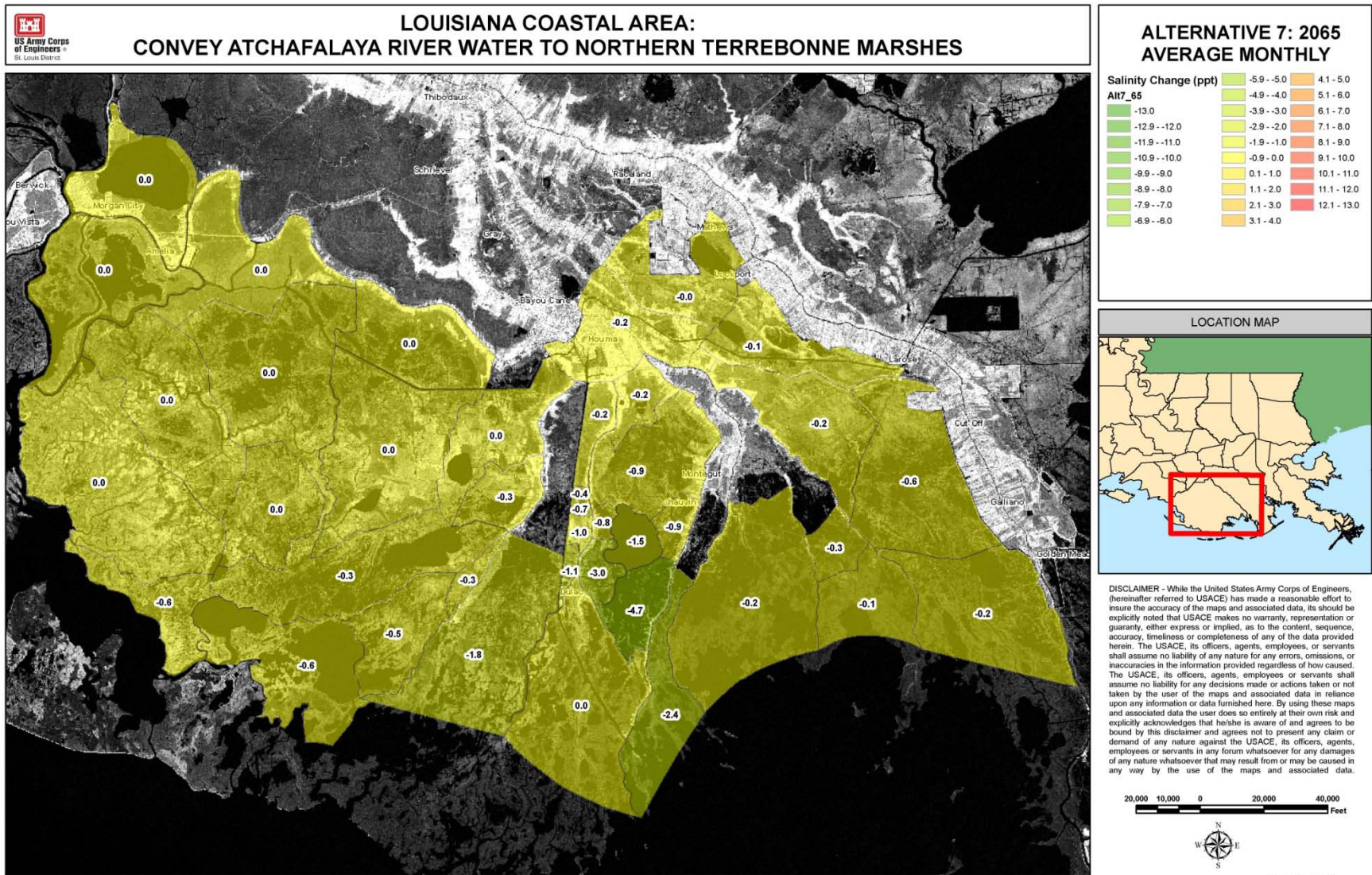
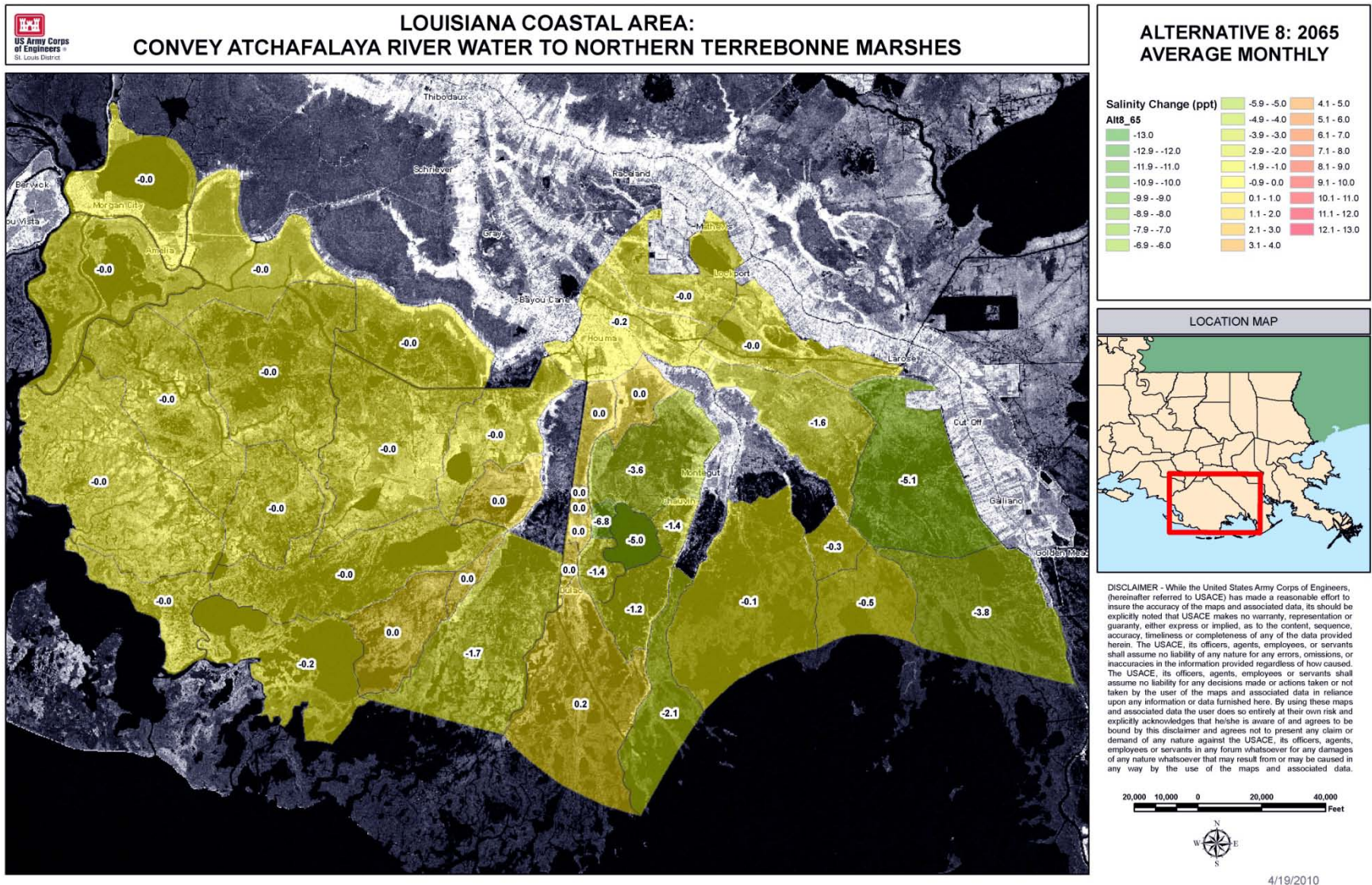


Figure L2-144 - Maximum monthly salinity change for Alternative 7, 2065



1440 Figure L2-145 - Maximum monthly salinity change for Alternative 8, 2065