Metadata

Overview

Providing an effective modelling and analysis tool of this magnitude and scope requires both large amounts of information and an infrastructure to support a geographically dispersed team. Standards for data formats and organization and data security are also crucial in this time sensitive portion of the planning process. The CCE Restore Team has designed and developed the infrastructure and database to deliver information to the planning and analysis team in an organized and secure manner.

Infrastructure Description

Hosting and Distribution

The members of the analysis team have many years of combined experience using GIS for data modelling and analysis. The majority of this time has utilized some form of the Environmental Systems Research Institute's (ESRI) software platform. The analysis team made the decision to standardize on this environment for most analysis and data storage. However, tools outside of this environment can be used as long as the data formats are easily transferrable to the ESRI system.

The analysis team decided to collect and store all basic landscape data in a secure file geodatabase. The file geodatabase is an ESRI format that has few limitations and can be transferred and updated easily from one location to another. All other analysis and resultant information is also being stored in this file geodatabase. Separation of datasets is accomplished in large part through the use of feature datasets within the geodatabase.

Because the team is geographically dispersed, the file geodatabase updated to local workstations provide the needed data access speeds required during complex analyses. The Egnyte storage solution already in use by the CCE Restore team proved to be a secure and dependable source for the file geodatabase storage. Each analysis team member uses a secure thin client to update the file geodatabase on a scheduled basis to and from the Egnyte Cloud Server. Complex datasets created by one team member are quickly available to all team members using this technology.

Each team member uses local resources to perform needed analyses. However, there is a common virtual workstation that was created to be used by all team members as a resource to perform multi-day processing tasks. This workstation is located behind a secure firewall and accessed only after VPN authentication.

In addition to the Egnyte file geodatabase and the local workstations, there is another resource that is actively used by the team. ArcGIS Server was installed on a virtual machine hosted by Amazon Web Services. This secure server hosts portions of the basic landscape information along with aerial photography services that are used by the analysis team and

planning team members for data visualization. This service has become a crucial part of providing information to the team without the requirement of specialized GIS software.

Geodatabases

Collection

Data has been collected from a number of sources for the basic landscape geodata and the analysis geodata. Each layer of data was obtained from the original source where available. Each dataset's metadata was also captured. Federal, State, and Local government sources were used for this data collection. Sources have included EPA, NOAA, USGS, MDEQ, The Mississippi Geospatial Clearinghouse, The Nature Conservancy, MS Audubon, and the local counties. Data collection will continue under Task 2 through all three years of the NFWF Planning cycle.

Geographic Standards

As each dataset was obtained from different sources, metadata was collected when available. This metadata includes the source, description and other details about each dataset. Most datasets are stored using the Mississippi State Plane East Coordinate System. Not only does the local source for this data use this standard system, but coordination with local entities is easily accomplished because of this standardization. Raster datasets developed in other projections and coordinate systems have not been projected however, in order to maintain the original integrity of the datasets.

Geodata Organization

The information collected by the analysis team is being stored in a single file geodatabase. The database was divided into Themes of like information to provide an easily navigable structure. While this file geodatabase continues to grow, the simplified present structure includes the following themes:

Biological
Boundaries,
Cultural Resources,
Elevation,
Energy,
Environmental,
Hydrography,
Land Ownership,
Landcover,
Marine Spatial Planning,
Physical Marine,
Reference,
Restoration Projects,
Shoreline,

Transportation, and
Water Quality.

Under each theme are listed numerous datasets with included metadata. Given as an example, the datasets under the Boundaries theme are:

City
Congressional_Districts113
County
Large_Cities
MCERT_AOI
MDEM_Counties_Gulf_Regional
MDEM_Municipal_Areas_Gulf_Regional
MS_Land_Trust_Easements
National_Conservation_Easements_DB
National_Parks
NativeAmerican_Land
State
USACE_Districts
USFWS_Approved_Boundaries

In addition to the themes and each dataset in the themes are specific datasets related to flood mapping, landuse, and LiDAR.

The final design for the analysis specific portion of the file geodatabase is continuing to evolve as the analysis is underway.

Geodata Dictionary

The Geodatabase is divided into three types of information. In general, Feature Datasets group like information into themes. The Feature Datasets contain Feature Classes where the polygon, line, point, and attribute information are stored. The third data type are stand-alone datasets like raster layers and tables. This section presents these data with brief metadata about each.

Feature Dataset
File Name: Biological
Description:
The Biological theme includes a variety of datasets that represent biological resources in the study area. This includes T & E species locations, oyster reefs, seagrass beds, and other resources.

File Type	Feature Dataset
Container	Biological.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Boundaries
Description:
The Governmental Boundaries theme includes layers representing governmental and census units, public lands, jurisdictions, landmarks, named places, and related data.

File Type	Feature Dataset
Container	Boundaries_Reference.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Cultural_Resources
Description:
The Cultural Resources theme includes locations of archaeologically important sites, primarily native american shell middens in Hancock County and the Grand Bay NERR.

File Type	Feature Dataset
Container	Cultural_Resources.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Elevation
Description:
The Elevation theme contains data representing detailed elevation throughout Mississippi.

File Type	Feature Dataset
Container	Elevation.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Energy
Description:
The Energy theme contains various datasets that depict energy sector infrastructure. This includes coastal powerplants, refineries, and crude oil pipelines.

File Type	Feature Dataset
Container	Energy.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Environmental
Description:
The Environmental theme contains data relating to Mississippi's environmental features and natural resources, such as soil types and land cover.

File Type	Feature Dataset
Container	Environmental.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: FEMA_NFHL
Description:
The Mississippi portion of FEMA's National Flood Hazard Layer (NFHL).

File Type	Feature Dataset
Container	FEMA_NFHL.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Hydrography
Description:
The Hydrography theme contains data representing water features in detail within the state of Mississippi, including stream lines, riverine, estuarine, and marine areas, lakes and ponds, and coastlines.

File Type	Feature Dataset
Container	Hydrography.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Land_Ownership
Description:
The Property Ownership theme contains data representing land parcel boundaries, structures, and associated attribute data for selected areas of Mississippi.

File Type	Feature Dataset
Container	Land_Ownership.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Landcover
Description:
The Landcover theme includes vector landcover data including the National Wetlands Inventory and 2010 C-CAP.

File Type	Feature Dataset
Container	Landcover.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Physical_Marine
Description:
The Physical Marine theme represents a variety of datasets that depict natural physical attributes of the marine environment, such as bottom sediment type and salinity, as well as man-made features including marine debris and dredge disposal sites.

File Type	Feature Dataset
Container	Physical_Marine.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Reference
Description:
The Reference theme contains various datasets used for map reference, including USGS quadrangle indices, Public Land Survey System boundaries, and coordinate system zone boundaries.

File Type	Feature Dataset
Container	Boundaries_Reference.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Shoreline
Description:
The Shoreline theme consists of various digital shoreline representations from multiple sources from numerous years. Historical shorelines dating back to 1850 are included.

File Type	Feature Dataset
Container	Shoreline.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Transportation
Description:
The Transportation theme contains data representing transportation-related features within the state of Mississippi, including roads, railroads, bridges, stations and terminals, airports, and related features.

File Type	Feature Dataset
Container	Transportation.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Feature Dataset
File Name: Water_Quality
Description:
Water quality assessments of waterbodies and streams as defined by the Mississippi Department of Environmental Quality.

File Type	Feature Dataset
Container	Water_Quality.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Raster Dataset
File Name: biloxi_ms_dem
Description:
NOAA's National Geophysical Data Center (NGDC) is building high-resolution digital elevation models (DEMs) for select U.S. coastal regions. These integrated bathymetric-topographic DEMs are used to support tsunami forecasting and modeling efforts at the N

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_WGS_1984
Projection	WGS_1984

Raster Dataset
File Name: Bottlenose_Dolphin_SDM
Description:
The Bottlenose Dolphin Species Distribution Model was constructed by integrating presence locations of dolphins acquired from line-transect sampling from 2011–2013 with maps of environmental conditions for the region to generate a likelihood of dolphin occurrence for winter (January–March), spring (April–June), summer (July–September), and autumn (October–December) using maximum entropy. Source: Institute for Marine Mammal Studies, 2015.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_WGS_1984
Projection	WGS_1984

Raster Dataset
File Name: BurnProbability
Description:
Burn probabilities for the conterminous US at a 270-meter grid spatial resolution, generated for the 2014 Fire Program Analysis (FPA) System submissions using a geospatial Fire Simulation (FSim) system developed by the US Forest Service Missoula Fire Sciences Laboratory to estimate probabilistic components of wildfire risk (Finney et al. 2011).

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_UTM_Zone_16N

Raster Dataset
File Name: CharacteristicFlameLength
Description:
Characteristic Flame Length is the typical or representative flame length of a potential fire based on a weighted average of four percentile weather categories. This dataset was derived from updated fuels and canopy data as part of the 2010 risk assessment update project recently completed in 2014.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: CharacteristicRateofSpread
Description:
Characteristic Rate of Spread is the typical or representative rate of spread of a potential fire based on a weighted average of four percentile weather categories. This dataset was derived from updated fuels and canopy data as part of the 2010 risk assessment update project recently completed in 2014.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: Coastal_LiDAR
Description:
Mosaic elevation dataset from pre-Katrina and post-Katrina sources including USACE, NOAA, and MDEM

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_StatePlane_Mississippi_East_FIPS_2301_Feet

Raster Dataset
File Name: CommunityProtectionZones
Description:
Community Protection Zones (CPZ) represent those areas considered highest priority for mitigation planning activities. CPZs are based on an analysis of the Where People Live housing density data and surrounding fire behavior potential. Rate of Spread data is used to determine the areas of concern around populated areas that are within a 2-hour fire spread distance.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: dem_aoi
Description:

1 arc-second (approximately 30-meter) resolution Digital Elevation Model for the MCERT Area of Interest. Derived from the U.S. Geological Survey's National Elevation Dataset.

File Type	Raster Dataset
Container	Elevation.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_UTM_Zone_16N

Raster Dataset
File Name: empower_mcert
Description:
This method facilitates the calculation of Landscape Development Intensity for any area, using the areal empower intensity of land uses. The LDI scale begins with zero (i.e. equal to average renewable empower of the landscape unit) and there is no upper l

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_Albers

Raster Dataset
File Name: DozerOperabilityRating
Description:
The Dozer Operability Rating (DOR) expresses how difficult it is to operate a dozer in an area based on limitations associated with slope and vegetation/fuel type. Using the fireline production rates published in the NWCG Fireline Handbook 3 (PMS 410-1) as a guide, operability values were assigned to a matrix based on 6 slope classes and 10 vegetation/fuels classes.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: FireIntensityScale
Description:
Characteristic Fire Intensity Scale (FIS) specifically identifies areas where significant fuel hazards and associated dangerous fire behavior potential exist based on weighted average of four percentile weather categories. This dataset was derived from updated fuels and canopy data as part of the 2010 risk assessment update project recently completed in 2014.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: FireTypeExtreme
Description:
Fire Type – Extreme represents the potential fire type under the extreme percentile weather category. This dataset was derived from updated fuels and canopy data as part of the 2010 risk assessment update project recently completed in 2014.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: LCM_MCERT
Description:
MCERT study area extraction of Landscape Condition Model

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_Albers

Raster Dataset
File Name: Mississippi_LCM
Description:
The NatureServe Landscape Condition Modeling tool results in a Level 1 index of ecological condition. It builds on the growing body of published methods for spatially-based ecological effects assessment across landscapes. The tool applies available spatia

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	NAD_1983_Albers

Raster Dataset
File Name: ms_1996_2010_ccap_change
Description:
This data set is the 1996-2010-era change classification of U.S. Alabama/Mississppi region. This data set utilized full or partial Landsat scenes which were analyzed according to the Coastal Change Analysis Program (C-CAP) protocol to determine land cover

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	Albers_Conical_Equal_Area

Raster Dataset

File Name: ms_2010_ccap_land_cover

Description:

This data set is the 2010-era classification of U.S. Alabama/Mississppi region. This data set utilized full or partial Landsat scenes which were analyzed according to the Coastal Change Analysis Program (C-CAP) protocol to determine land cover.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	Albers_Conical_Equal_Area

Raster Dataset
File Name: nlcd_2006_to_2011_impervious_change_pixels_2011_edition_2014_03_31
Description:
Change in per-pixel impervious cover between the 2006 and 2011 National Land Cover Datasets. The National Land Cover Database products are created through a cooperative project conducted by the Multi-Resolution Land Characteristics (MRLC) Consortium.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	Albers_Conical_Equal_Area

Raster Dataset
File Name: NLCD_1992_MCERT_AOI
Description:
1992 National Land Cover Dataset within the MCERT Area of Interest.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	Albers_Conical_Equal_Area

Raster Dataset
File Name: nlcd01_aoi
Description:
2011 National Land Cover Dataset within the MCERT Area of Interest.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	Albers_Conical_Equal_Area

Raster Dataset
File Name: nlcd_2011_impervious_2011_edition_2014_03_31
Description:
Impervious surface coverage according to the 2011 National Land Cover Dataset.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	Albers_Conical_Equal_Area

Raster Dataset
File Name: PercentSlope
Description:
Percent Slope is a measurement of the rate of change of elevation over a given horizontal distance, in which the rise is divided by the run and then multiplied by one hundred.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: serap_urb2010
Description:
2010 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2020
Description:
2020 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2030
Description:
2030 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2040
Description:
2040 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2050
Description:
2050 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2060
Description:
2060 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2070
Description:
2070 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2080
Description:
2080 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2090
Description:
2090 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: serap_urb2100
Description:
2100 Urban Growth Projection for Southeast Regional Assessment Project

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	NAD_83
Projection	Albers

Raster Dataset
File Name: SurfaceFuels
Description:
Surface fuels, or fire behavior fuel models as they are technically referred to, contain the parameters needed by the Rothermel (1972) surface fire spread model to compute surface fire behavior characteristics, such as rate of spread, flame length, fireline intensity, and other fire behavior metrics. The fuels layer represents 2010 conditions.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: USGS_Marsh_Classification_2010
Description:
A seamless and standardized classification of marsh vegetation salinity zones (i.e., fresh, intermediate, brackish, and salt) for Texas, Louisiana, Mississippi, and Alabama 2010. Produced by the U.S. Geological Survey National Wetlands Research Center.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_WGS_1984
Projection	WGS_1984_UTM_Zone_15N

Raster Dataset
File Name: WherePeopleLive
Description:
With recent advancements in data and analysis methods a new data set, Where People Live (WPL), has been developed to identify "where people live" in urban and wildland areas. WPL is compiled using housing density and categorized based on the standard Federal Register and U.S. Forest Service Silvis data set categories.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: WildfireIgnitionDensity
Description:
Wildfire Ignition Density is the likelihood of a wildfire igniting in an area. Occurrence is derived by modeling historic wildfire ignition locations to create an average ignition rate map. The ignition rate is measured in the number of fires per year per 1000 acres. Data was obtained from federal, state and local fire department report data sources for the years 1997 to 2002.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: WildlandUrbanInterface
Description:
The Wildland Urban Interface (WUI) layer reflects housing density depicting where humans and their structures meet or intermix with wildland fuels. The new WUI dataset is derived using advanced modeling techniques based on the Where People Live dataset and 2012 LandScan population count data available from the Department of Homeland Security, HSIP Freedom Data Set.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: WUIRiskIndex
Description:
The Wildland Urban Interface (WUI) Risk Index layer is a rating of the potential impact of a wildfire on people and their homes.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	USA_Contiguous_Albers_Equal_Area_Conic_USGS_version

Raster Dataset
File Name: Vessel_Density_2013
Description:

Automatic Identification Systems (AIS) are a navigation safety device that transmits and monitors the location and characteristics of many vessels in U.S. and international waters in real-time. This dataset represents the density of vessel traffic in 2013 for the contiguous United States offshore waters from vessels with AIS transponders in 100 meter grid cells. The dataset is best interpreted using a high to low density scale and does not represent actual vessel counts.

File Type	Raster Dataset
Container	Rasters.gdb
Geographic Coordinate Reference	GCS_North_American_1983
Projection	

Feature Class	
Name:	barrier_bird_nests
Description:	

Shorebird observations during BP oil spill surveys (DOI)

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	NOAA ERMA
Date	

Feature Class	
Name:	bird_nesting_merge
Description:	

Shorebird observations during BP oil spill surveys (DOI)

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	NOAA ERMA
Date	

Feature Class	
Name:	BirdData
Description:	

Shorebird (solitary and colonial) observation data points for barrier islands conducted by USACE

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	USACE
Date	

Feature Class	
Name:	BNB_Coordinates
Description:	

Shorebird (solitary and colonial) data points for Deer Island

File Type Feature Class
Feature Dataset Biological
Geodatabase Biological.gdb
Geometry Type Point
Source MDMR
Date

Feature Class	
Name:	DMR_Oyster_Areas
Description:	

Designated Oyster Areas by the Mississippi Department of Marine Resources.

File Type Feature Class
Feature Dataset Biological
Geodatabase Biological.gdb
Geometry Type Polygon
Source MDMR
Date

Feature Class	
Name:	erma_oysters
Description:	

Oyster reef locations from NOAA's ERMA database

File Type Feature Class
Feature Dataset Biological
Geodatabase Biological.gdb
Geometry Type Polygon
Source NOAA ERMA
Date

Feature Class	
Name:	erma_SAV
Description:	

SAV locations from NOAA's ERMA database

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	NOAA ERMA
Date	

Feature Class	
Name:	Essential_Fish_Habitat
Description:	

Essential fish habitat (EFH) for Gulf of Mexico Coastal Migratory Pelagics consists of the following waters and substrate areas in the Gulf of Mexico: all estuaries; the US/Mexico border to the boundary between the areas covered by the Gulf of Mexico Fishery Management Council (GMFMC) and the South Atlantic Fishery Management Council (SAFMC) from estuarine waters out to depths of 100 fathoms.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MRAG Americas and GIS Solutions, Inc.
Date	9/22/2010

Feature Class	
Name:	Estuarine_Marsh
Description:	

This data set represents the extent, approximate location and type of wetlands and deepwater habitats in the conterminous United States. These data delineate the areal extent of wetlands and surface waters as defined by Cowardin et al. (1979).

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	U.S. Fish and Wildlife Service
Date	

Feature Class	
Name:	GB_Oysters
Description:	

Percent cover of intertidal oysters in the Grand Bay National Estuarine Research Reserve. Data were collected and mapped by NERR staff in 2008.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polyline
Source	MDMR/Grand Bay NERR
Date	

Feature Class	
Name:	GBNERR_SAV
Description:	

Areas of submerged aquatic vegetation within the Grand Bay National Estuarine Research Reserve during the 2005 growing season.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	Grand Bay NERR
Date	2005

Feature Class	
Name:	gulf_sturgeon_CH_unit1_7_mergedline
Description:	

FWS and NMFS, collectively ‘‘the Services,’’ designate
critical habitat for the Gulf sturgeon (Acipenser oxyrinchus desotoi), a threatened species listed under the Endangered Species Act of 1973, as amended (Act). We designate 14 geographic areas among the Gulf of Mexico rivers and tributaries as critical habitat for the Gulf sturgeon. These 14
geographic areas (units) encompass approximately 2,783 river kilometers (rkm) (1,730 river miles (rmi)) and 6,042
square kilometers (km2) (2,333 square miles (mi2)) of estuarine and marine habitat.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polyline
Source	USFWS/NMFS
Date	

Feature Class	
Name:	gulf_sturgeon_CH_units8_14_poly
Description:	

FWS and NMFS, collectively ‘‘the Services,’’ designate
critical habitat for the Gulf sturgeon (Acipenser oxyrinchus desotoi), a threatened species listed under the Endangered Species Act of 1973, as amended (Act). We designate 14 geographic areas among the Gulf of Mexico rivers and tributaries as critical habitat for the Gulf sturgeon. These 14
geographic areas (units) encompass approximately 2,783 river kilometers (rkm) (1,730 river miles (rmi)) and 6,042
square kilometers (km2) (2,333 square miles (mi2)) of estuarine and marine habitat.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	USFWS/NMFS
Date	

Feature Class	
Name:	GulfTOPP_sturgeon_locs
Description:	

FWS and NMFS, collectively ‘‘the Services,’’ designate
critical habitat for the Gulf sturgeon (Acipenser oxyrinchus desotoi), a threatened species listed under the Endangered Species Act of 1973, as amended (Act). We designate 14 geographic areas among the Gulf of Mexico rivers and tributaries as critical habitat for the Gulf sturgeon. These 14
geographic areas (units) encompass approximately 2,783 river kilometers (rkm) (1,730 river miles (rmi)) and 6,042
square kilometers (km2) (2,333 square miles (mi2)) of estuarine and marine habitat.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	USFWS/NMFS
Date	

Feature Class	
Name:	Hancock_SAV
Description:	

Areas of submerged aquatic vegetation within Hancock County. From report by Moncreiff. Dates range from 1969 to 2001.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	GCRL
Date	1969-2001

Feature Class	
Name:	Heron_Bay_Oyster_Survey
Description:	

A survey of eastern oyster and submerged aquatic vegetation (SAV) was conducted on June 17, 2013 in Heron Bay, Hancock County, MS to provide an assessment of species presence within the water body in relation to the Hancock County Marsh Living Shoreline NRDA project. A systematic sampling regime was derived in ArcGIS representing a series of east-west transects separated by 175 meters with sampling points located every 200 meters along the transects. Transects and sampling points were loaded into a WAAS enabled GPS unit and used to navigate to each point on the GPS screen in real time. At each point, survey members used a pole and rake on the port and starboard of the vessel to document presence of SAV and oysters. At select locations, bottom grab samples were collected using a Van Veen sampler to validate substrate composition.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	CCE/MDEQ
Date	2013

Feature Class	
Name:	Historical_Oysters
Description:	

This feature class represents spatial data of coverages of oyster reefs for Mississippi. It consists of data that has been aggregated by various government agencies and research institutions.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	NOAA ERMA
Date	

Feature Class	
Name:	Kemps_Ridley_PredGrid_Weekly
Description:	

Modeled density of Kemp's Ridley turtle occurrence in the Gulf of Mexico.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	NOAA
Date	2010

Feature Class	
Name:	MDMR_ActiveOysterLeases
Description:	

Active oyster leases maintained by the Mississippi Department of Marine Resources.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	MDMR_Inshore_Artificial_Reef_WGS2
Description:	

Inshore artificial reefs established by the Mississippi Department of Marine Resources.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	NOAA_oyster_projects
Description:	

Non-commercial oyster reefs that were created from restoration efforts

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	NOAA
Date	

Feature Class	
Name:	osyters_noncommercial
Description:	

Non-commercial oyster reefs that were created from restoration efforts

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	TNC
Date	1/1/2011

Feature Class	
Name:	Oyster_Reef_Eastern_Sound
Description:	

Current and historical distribution of oyster reefs in the eastern Mississippi Sound. Sources are various and include 1911 Library of Congress data.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	Oysters_merge
Description:	

Current distribution of oysters in the western Mississippi Sound. Incorporates MDMR Oyster Areas data as well as recent reef projects.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR, TNC
Date	2015

Feature Class	
Name:	piping_plover_CH
Description:	

The Fish and Wildlife Service, designate 137 areas along the coasts of North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas as critical habitat
for the wintering population of the piping plover (Charadrius melodus). This includes approximately 2,891.7 kilometers (km) (1,798.3 miles (mi)) of mapped shoreline and approximately 66,881 hectares (ha) (165,211 acres (ac)) of mapped area along the Gulf and Atlantic coasts and along margins of interior bays, inlets, and lagoons.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	USFWS
Date	

Feature Class	
Name:	seagrass
Description:	

This feature class represents spatial data of coverages of submerged aquatic vegetation for Mississippi. It consists of data that has been aggregated by various government agencies and research institutions.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	NOAA ERMA
Date	

Feature Class	
Name:	SeaTurlteMortality_april2011_contours
Description:	

NOAA data. From March through July 2011, an increased number of Kemp's ridley sea turtles Lepidochelys kempii were reported stranded on the islands, beaches and shorelines of Louisiana, Mississippi and Alabama. Members of the National Sea Turtle Stranding and Salvage Network responded, documenting the location and physical condition of each turtle. This report describes an ocean physical model-based analysis of the spring and summer 2011 Mississippi stranding events. Included within this group of strandings was 1 satellite-tagged moribund Kemp's ridley turtle, initially alive and tagged by the Institute for Marine Mammal Studies for a site fidelity study. Data from this tracking event provided an accurate time sequence of 58 h, during which the animal was presumed to be drifting, based on observed characteristics that were typical of a floating carcass. Turtle drift data were combined with output from the America SEAS (AMSEAS) hydrodynamic model to provide an estimate of leeway. The AMSEAS model was then applied to an additional 247 stranded turtles to produce 5 d Lagrangian backtrack drifts to derive mortality source location probability maps. Based on the model presented in this study, the majority of mortalities appeared to have occurred in eastern Louisiana state waters.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polyline
Source	NOAA NMFS
Date	

Feature Class	
Name:	SeaTurtle_Strandings
Description:	

The Southeast Fisheries Science Center (SEFSC) Sea Turtle Stranding and Salvage Network (STSSN) was formally established in 1980 to collect information on and document stranding of marine turtles along the U.S. Gulf of Mexico and Atlantic coasts. The network encompasses the coastal areas of the eighteen state regions from Maine through Texas, and includes portions of the U.S. Caribbean. Data are compiled through the efforts of network participants who document marine turtle strandings in their respective areas and contribute those data to the centralized STSSN data base.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	NOAA NMFS
Date	

Feature Class	
Name:	Shorebirds
Description:	

This data depicts solitary and colonial shorebird nesting areas on mainland and barrier island beaches. Data sources include MDMR, NPS, and Audubon.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	NPS, MDMR, Audubon
Date	

Feature Class	
Name:	T_E_Heritage_line
Description:	

This dataset represents point locations of federally threaned and endangered species in Mississippi. Data were collected over many years and managed by the MS Natural Heritage Program

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polyline
Source	MDWFP
Date	

Feature Class	
Name:	T_E_Heritage_points
Description:	

This dataset represents point locations of federally threaned and endangered species in Mississippi. Data were collected over many years and managed by the MS Natural Heritage Program

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	MDWFP
Date	

Feature Class	
Name:	T_E_Heritage_Polygons
Description:	

This dataset represents point locations of federally threaned and endangered species in Mississippi. Data were collected over many years and managed by the MS Natural Heritage Program

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDWFP
Date	

Feature Class	
Name:	Cultch_Planting_Priorities
Description:	

Oyster cultch planting priority areas, as delineated in the final 2015 report of the Mississippi Governor's Oyster Council.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	Off_Bottom_Potential
Description:	

Areas of particular potential for off-bottom oyster cultivation, as delineated in the final 2015 report of the Mississippi Governor's Oyster Council.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	On_Bottom_Potential
Description:	

Areas of particular potential for on-bottom oyster cultivation, as delineated in the final 2015 report of the Mississippi Governor's Oyster Council.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	Seed_Ground_Potential
Description:	

Areas identified as having potential as seed grounds for brood stock or relay, as delineated in the final 2015 report of the Mississippi Governor's Oyster Council.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	Coastal_Wetlands_Use_Plan
Description:	

Areas delineated by the Mississippi Department of Marine Resources as coastal use zones under the Coastal Wetlands Use Plan. Use types include Commercial Fisheries and Recreational Marinas, General Use, Preservation (Seagrass), Special Use (Dredged Material Disposal Areas), Special Use (Leased Wetlands for Other Uses), Special Use (Leased Wetlands for Other Uses); General Use, Special Use (Leased Wetlands for Oyster Reefs), Special Use (Navigation Channels), and Special Use (Oyster Reefs).

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR
Date	2015

Feature Class	
Name:	MDMR_Water_Sampling_Stations
Description:	

Locations of designated water sampling stations in areas approved for growing and harvesting of shellfish in Mississippi. Water sampling is mandated by the Food and Drug Administration (USFDA) National Shellfish Sanitation Program Guide for the Control of Molluscan Shellfish Model Ordinance. The Mississippi Department of Marine Resources is the Shellfish Authority.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	MDMR
Date	2016

Feature Class	
Name:	Terns
Description:	

This data depicts solitary and colonial shorebird nesting areas on mainland and barrier island beaches. Data sources include MDMR, NPS, and Audibon.

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Polygon
Source	MDMR/Audubon
Date	

Feature Class	
Name:	WIPL
Description:	

Wilson's Plover nest locations on Deer Island

File Type	Feature Class
Feature Dataset	Biological
Geodatabase	Biological.gdb
Geometry Type	Point
Source	MDMR
Date	

Feature Class	
Name:	City
Description:	

City boundaries in the United States and Canada

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEM
Date	

Feature Class	
Name:	Congressional_Districts113
Description:	

Congressional Districts in TX, LA, MS, AL, GA, FL, AR,OK,KS,MO,IL,KY,TN,VA,NC,SC

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEM
Date	

Feature Class	
Name:	County
Description:	

County boundaries in TX, LA, MS, AL, GA, FL, AR,OK,KS,MO,IL,KY,TN,VA,NC,SC

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	U.S. Department of Commerce, U.S. Census Bureau, Geography Division
Date	5/1/2013

Feature Class	
Name:	Large_Cities
Description:	

City boundaries for cities with population 35,000 and greater in the United States and Canada

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEM
Date	

Feature Class	
Name:	MCERT_AOI
Description:	

Boundary of the Area of Interest defined for the Mississippi Comprehensive Ecosystem Restoration Tool.

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	
Date	2015

Feature Class	
Name:	MDEM_Counties_Gulf_Regional
Description:	

This metadata record describes the acquisition from local sources and production of standardized administrative boundaries and polyon data for 5 coastal counties Hancock, Harrison, Jackson, Pearl River and Stone Mississippi.

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEQ
Date	4/28/2012

Feature Class	
Name:	MDEM_Municipal_Areas_Gulf_Regional
Description:	

This metadata record describes the acquisition from local sources and production of standardized administrative boundaries and polyon data for 5 coastal counties Hancock, Harrison, Jackson, Pearl River and Stone Mississippi.

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEQ
Date	4/28/2012

Feature Class	
Name:	MS_Land_Trust_Easements
Description:	

Conservation easements managed through the Mississippi Land Trust

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MS Land Trust
Date	

Feature Class	
Name:	National_Conservation_Easements_DB
Description:	

Privately owned conservation easement lands in the U.S

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	National Conservation Easement Database
Date	

Feature Class	
Name:	National_Parks
Description:	

National Park Service unit boundaries.

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	National Park Service
Date	4/27/2007

Feature Class	
Name:	NativeAmerican_Land
Description:	

Native American lands

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEM
Date	

Feature Class	
Name:	State
Description:	

Mississippi, farm information, States, Georgia, 2005, Missouri, population, Oklahoma, North Carolina, Tennessee, 1999, Illinois, polygon, demographics, Kansas, State, Virginia, Texas, Florida, area, 2000, South Carolina, boundaries, U.S. States, 1997, Arkansas, households, Louisiana, Kentucky, Mississippi, 2006, detail

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEM
Date	1/10/2006

Feature Class	
Name:	USACE_Districts
Description:	

USACE Military District boundaries. Polygons were derived from National Atlas states and/or from data provided by the district

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEM
Date	8/9/2012

Feature Class	
Name:	USFWS_Approved_Boundaries
Description:	

External boundaries of lands and waters that are approved for acquisition by the U.S. Fish and Wildlife Service (USFWS) in North America, U.S. Trust Territories and Possessions

File Type	Feature Class
Feature Dataset	Boundaries
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	U.S. Fish and Wildlife Service
Date	3/3/2014

Feature Class	
Name:	Cultural_Resources_1
Description:	

Data represents historical native american sites in Hancock County and Grand Bay NERR.

File Type	Feature Class
Feature Dataset	Cultural_Resources
Geodatabase	Cultural_Resources.gdb
Geometry Type	Polygon
Source	MDMR/MDAH
Date	

Feature Class	
Name:	GB_middens
Description:	

Data represents historical native american sites in Hancock County and Grand Bay NERR.

File Type	Feature Class
Feature Dataset	Cultural_Resources
Geodatabase	Cultural_Resources.gdb
Geometry Type	Point
Source	MDMR/MDAH
Date	

Feature Class	
Name:	Indian_Middens_Hancock
Description:	

Data represents historical native american sites in Hancock County and Grand Bay NERR.

File Type	Feature Class
Feature Dataset	Cultural_Resources
Geodatabase	Cultural_Resources.gdb
Geometry Type	Point
Source	MDMR/MDAH
Date	

Feature Class	
Name:	Contours_2ft
Description:	

This metadata record describes the acquisition and production of 2 foot contours for 5 coastal counties Hancock, Harrison, Jackson, Pearl River and Stone. The breaklines were collected from digital imagery with a 15 cmground sample distance (GSD) for the project area for the 2 foot contour area and 30 cm for the 5 foot contour area.

File Type	Feature Class
Feature Dataset	Elevation
Geodatabase	Elevation.gdb
Geometry Type	Polyline
Source	MDEQ
Date	9/21/2009

Feature Class	
Name:	Contours_5ft
Description:	

This metadata record describes the acquisition and production of 5foot contours for 5 coastal counties Hancock, Harrison, Jackson, Pearl River and Stone. The breaklines were collected from digital imagery with a 15 cmground sample distance (GSD) for the project area for the 2 foot contour area and 30 cm for the 5 foot contour area.

File Type	Feature Class
Feature Dataset	Elevation
Geodatabase	Elevation.gdb
Geometry Type	Polyline
Source	MDEQ
Date	9/21/2009

Feature Class	
Name:	Water_Depth_Contours
Description:	

The North American Atlas - Bathymetry data set shows the depth in metres for ocean areas covered by the extent of the North American Atlas project. Isobaths (lines of equal depth) are provided for sea level (coastline, with depth = 1), 200, 500, and 2500 metres.

File Type	Feature Class
Feature Dataset	Elevation
Geodatabase	Elevation.gdb
Geometry Type	Polyline
Source	USGS
Date	2006

Feature Class	
Name:	BOEM_pipelines
Description:	

Major crude oil pipelines in the United States. Layer includes interstate trunk lines and selected intrastate lines but excludes gathering lines. Based on publicly available data from a variety of sources with varying scales and levels of accuracy. Updated March 2014

File Type	Feature Class
Feature Dataset	Energy
Geodatabase	Energy.gdb
Geometry Type	Polyline
Source	BOEM
Date	

Feature Class	
Name:	CoastalEnergyFacilities
Description:	

This data depicts the locations of facilities that generate electricity derived from the Environmental Protection Agency (EPA) Emissions and Generation Resource Integrated Database (eGRID) which is representative of 2009 facilities. Only facilities adjacent to the coast and Great Lakes are shown.

File Type	Feature Class
Feature Dataset	Energy
Geodatabase	Energy.gdb
Geometry Type	Point
Source	EPA eGRID via NOAA Coastal Services Center
Date	

Feature Class	
Name:	CrudeOil_Pipelines_US_March2014
Description:	

Major crude oil pipelines in the United States. Layer includes interstate trunk lines and selected intrastate lines but excludes gathering lines. Based on publicly available data from a variety of sources with varying scales and levels of accuracy. Updated March 2014.

File Type	Feature Class
Feature Dataset	Energy
Geodatabase	Energy.gdb
Geometry Type	Polyline
Source	U.S. Energy Information Administration
Date	5/14/2014

Feature Class	
Name:	CrudeOil_RailTerminals_March2014
Description:	

Rail terminals that handle loading and unloading of crude oil. Created by EIA using publicly available data. Updated March 2014.

File Type	Feature Class
Feature Dataset	Energy
Geodatabase	Energy.gdb
Geometry Type	Point
Source	U.S. Energy Information Administration
Date	5/14/2014

Feature Class	
Name:	leasm2poly
Description:	

Oil and gas lease blocks in state and federal waters

File Type	Feature Class
Feature Dataset	Energy
Geodatabase	Energy.gdb
Geometry Type	Polygon
Source	U.S. Energy Information Administration
Date	

Feature Class	
Name:	LngImportExportTerminals
Description:	

Terminals capable of liquefaction of natural gas for transport (Kenai, AK), or receipt and regasification of LNG for use as natural gas (GA - Elba Island; LA - Cameron, Lake Charles, Gulf Gateway Deepwater Port, and Sabine Pass; MA - Everett, Neptune, and Northeast Gateway Energy Bridge; MD - Cove Point; PR - Peñuelas; TX - Freeport and Golden Pass).

File Type	Feature Class
Feature Dataset	Energy
Geodatabase	Energy.gdb
Geometry Type	Point
Source	U.S. Energy Information Administration
Date	8/13/2012

Feature Class	
Name:	MS_Geology1969
Description:	

Mississippi statewide surface geologic map

File Type	Feature Class
Feature Dataset	Environmental
Geodatabase	Environmental.gdb
Geometry Type	Polygon
Source	MDEQ
Date	6/10/2013

Feature Class	
Name:	Soils_SSURGO
Description:	

Merged Soil Survey Geographic Database (SSURGO) data for all counties intersecting the MCERT AOI.

File Type	Feature Class
Feature Dataset	Environmental
Geodatabase	Environmental.gdb
Geometry Type	Polygon
Source	NRCS
Date	2015

Feature Class	
Name:	Soils_SSURGO_Drainage
Description:	

Merged Soil Survey Geographic Database (SSURGO) data for all counties intersecting the MCERT AOI, classified by soil drainage class of primary map unit component.

File Type	Feature Class
Feature Dataset	Environmental
Geodatabase	Environmental.gdb
Geometry Type	Polygon
Source	NRCS
Date	2015

Feature Class	
Name:	Soils_SSURGO_KFactor
Description:	

Merged Soil Survey Geographic Database (SSURGO) data for all counties intersecting the MCERT AOI, classified by soil erodibility factor of primary map unit component.

File Type	Feature Class
Feature Dataset	Environmental
Geodatabase	Environmental.gdb
Geometry Type	Polygon
Source	NRCS
Date	2015

Feature Class	
Name:	S_BASE_INDEX
Description:	

Location and attributes for a tiling index for raster data used for the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_BFE
Description:	

Location and attributes for base flood elevations lines shown on DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_CBRS
Description:	

Location and attributes for Coastal Barrier Resource System units on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_CST_TSCT_LN
Description:	

Location and attributes for coastal transect lines shown on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_FIRM_PAN
Description:	

Location and attributes for DFIRM hardcopy map panels

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_FLD_HAZ_AR
Description:	

Location and attributes flood insurance risk zones on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	3/15/2012

Feature Class	
Name:	S_FLD_HAZ_LN
Description:	

Location and attributes for boundaries of flood insurance risk zones on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	3/15/2012

Feature Class	
Name:	S_GEN_STRUCT
Description:	

Location and attributes for flood control structures shown on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_LOMR
Description:	

Location and attributes for Letter of Map revisions

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_PERM_BMK
Description:	

National Geodetic Survey (NGS) benchmark locations on the printed digital flood insurance map

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Point
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_PLSS_AR
Description:	

Location and attributes of sections, townships and ranges on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_PLSS_LN
Description:	

Location and attributes section lines, township lines and range lines on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_POL_AR
Description:	

Location and attributes for political jurisdictions shown on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_POL_LN
Description:	

Location and attributes for political boundaries shown on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_QUAD_INDEX
Description:	

Location and attributes for USGS quadrangle maps covering the DFIRM area

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_RIV_MRK
Description:	

Location and attributes for river mile markers shown on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Points
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_TRNSPORT_LN
Description:	

Location and attributes for roads, railroads and other transportation features shown on the DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_WTR_AR
Description:	

Location and attributes for hydrography features shown on DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polygon
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_WTR_LN
Description:	

Location and attributes for hydrography features shown on DFIRM

File Type	Feature Class
Feature Dataset	FEMA_NFHL
Geodatabase	FEMA_NFHL.gdb
Geometry Type	Polyline
Source	Federal Emergency Management Agency
Date	

Feature Class	
Name:	S_XS
Description:	

Location and attributes for cross-section lines in the area covered by the DFIRM

File Type Feature Class
Feature Dataset FEMA_NFHL
Geodatabase FEMA_NFHL.gdb
Geometry Type Polyline
Source Federal Emergency Management Agency
Date

Feature Class	
Name:	Catchments_HUC12_Merge
Description:	

National Hydrography Dataset Plus catchment data clipped to coastal HUC 12 watersheds

File Type Feature Class
Feature Dataset Hydrography
Geodatabase Hydrography.gdb
Geometry Type Polygon
Source USGS
Date

Feature Class	
Name:	HUC12_WBD
Description:	

National Hydrography Dataset HUC 12 level watersheds

File Type Feature Class
Feature Dataset Hydrography
Geodatabase Hydrography.gdb
Geometry Type Polygon
Source USGS
Date

Feature Class	
Name:	HUC8_WBD
Description:	

National Hydrography Dataset HUC 8 level watersheds

File Type Feature Class
Feature Dataset Hydrography
Geodatabase Hydrography.gdb
Geometry Type Polygon
Source USGS
Date

Feature Class	
Name:	NHD_Area
Description:	

National Hydrography Dataset areal hydrographic landmark features

File Type Feature Class
Feature Dataset Hydrography
Geodatabase Hydrography.gdb
Geometry Type Polygon
Source USGS
Date

Feature Class	
Name:	NHD_Flowline
Description:	

National Hydrography Dataset routes that make up a linear surface water drainage network

File Type Feature Class
Feature Dataset Hydrography
Geodatabase Hydrography.gdb
Geometry Type Polyline
Source USGS
Date

Feature Class	
Name:	NHD_Waterbody
Description:	

National Hydrography Dataset areal waterbody features

File Type	Feature Class
Feature Dataset	Hydrography
Geodatabase	Hydrography.gdb
Geometry Type	Polygon
Source	USGS
Date	

Feature Class	
Name:	NHDPlus_Catchments
Description:	

The NHDPlusV2 is an integrated suite of application-ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD) and the National Elevation Dataset (NED). NHDPlusV2 also includes elevation-derived catchments (drainage areas) produced using a drainage enforcement technique first broadly applied in New England, and thus dubbed "The New-England Method". This technique involves "burning-in" the 1:100,000-scale NHD and building "walls" using the national Watershed Boundary Dataset (WBD). The hydro-enforced digital elevation model (DEM) is used to produce hydrologic derivatives that agree with the NHD and WBD.

File Type	Feature Class
Feature Dataset	Hydrography
Geodatabase	Hydrography.gdb
Geometry Type	Polygon
Source	USGS, USEPA
Date	2012

Feature Class	
Name:	Wetlands
Description:	

Location and type of wetlands and deepwater habitats in the conterminous United States

File Type	Feature Class
Feature Dataset	Hydrography
Geodatabase	Hydrography.gdb
Geometry Type	Polygon
Source	USGS
Date	

Feature Class	
Name:	Coastal_Preserves_merge
Description:	

Property owned and managed by the MDMR Coastal Preserves Program

File Type	Feature Class
Feature Dataset	Land_Ownership
Geodatabase	Land_Ownership.gdb
Geometry Type	Polygon
Source	MDMR
Date	1/1/2012

Feature Class	
Name:	conservation_easements_AOI
Description:	

The National Conservation Easement Database (NCED) is a collaborative venture to compile easement records (both spatial and tabular) from land trusts and public agencies throughout the United States in a single, up-to-date, sustainable, GIS compatible, online source.

File Type	Feature Class
Feature Dataset	Land_Ownership
Geodatabase	Land_Ownership.gdb
Geometry Type	Polygon
Source	National Conservation Easement Database
Date	2012

Feature Class	
Name:	Hancock_County
Description:	

Hancock County land parcels

File Type Feature Class
Feature Dataset Land_Ownership
Geodatabase Land_Ownership.gdb
Geometry Type Polygon
Source Hancock County
Date

Feature Class	
Name:	Harrison_County
Description:	

Harrison County land parcels

File Type Feature Class
Feature Dataset Land_Ownership
Geodatabase Land_Ownership.gdb
Geometry Type Polygon
Source Harrison County
Date

Feature Class	
Name:	Jackson_County
Description:	

Jackson County land parcels

File Type Feature Class
Feature Dataset Land_Ownership
Geodatabase Land_Ownership.gdb
Geometry Type Polygon
Source Jackson County
Date

Feature Class	
Name:	LTMCP_Parcels_MCERT
Description:	

Properties protected by the Land Trust for the Mississippi Coastal Plain.

File Type	Feature Class
Feature Dataset	Land_Ownership
Geodatabase	Land_Ownership.gdb
Geometry Type	Polygon
Source	LTMCP
Date	2014

Feature Class	
Name:	MGC_Regional_LandUse_2012_region
Description:	

Land use types for all parcels in the three Mississippi coastal counties.

File Type	Feature Class
Feature Dataset	Land_Ownership
Geodatabase	Land_Ownership.gdb
Geometry Type	Polygon
Source	Harrison County, Hancock County, Jackson County
Date	2012

Feature Class	
Name:	MS_CoastalPreserves_boundaries
Description:	

Administrative boundaries of the MS DMR Coastal Preserves system

File Type	Feature Class
Feature Dataset	Land_Ownership
Geodatabase	Land_Ownership.gdb
Geometry Type	Polygon
Source	MDMR
Date	

Feature Class	
Name:	PADUS1_3MS
Description:	

Protected Areas Database

File Type Feature Class
Feature Dataset Land_Ownership
Geodatabase Land_Ownership.gdb
Geometry Type Polygon
Source USGS
Date

Feature Class	
Name:	Protected_Areas_Merge
Description:	

NCED shows a comprehensive picture of privately owned conservation easement lands in the U.S.

File Type Feature Class
Feature Dataset Land_Ownership
Geodatabase Land_Ownership.gdb
Geometry Type Polygon
Source National Conservation Easement Database
Date 7/24/2012

Feature Class	
Name:	TNC_MS_Land
Description:	

Nature Conservancy lands

File Type Feature Class
Feature Dataset Land_Ownership
Geodatabase Land_Ownership.gdb
Geometry Type Polygon
Source TNC
Date

Feature Class	
Name:	NWI_MS_2010
Description:	

This data set represents the extent, approximate location and type of wetlands and deepwater habitats in the conterminous United States. These data delineate the areal extent of wetlands and surface waters as defined by Cowardin et al. (1979).

File Type	Feature Class
Feature Dataset	Landcover
Geodatabase	Landcover.gdb
Geometry Type	Polygon
Source	U.S. Fish and Wildlife Service
Date	1/11/2010

Feature Class	
Name:	Planning_Unit_Scores
Description:	

Individual attribute scores, and Impact/Stressor and Environmental Resource Value summary scores, for the Marine Spatial Planning component of the Mississippi Comprehensive Ecosystem Restoration Tool.

File Type	Feature Class
Feature Dataset	MSP_Data
Geodatabase	Marine_Spatial_Planning.gdb
Geometry Type	Polygon
Source	
Date	2015

Feature Class	
Name:	Achorage_Areas
Description:	

The GIS REST service for "Anchorage Areas in U.S. waters" provides raster maps of the anchorage areas in which vessels anchor or may anchor (as defined by IHO Dictionary, S-32, 5th Edition, 130). These areas are derived from NOAA's Electronic Navigation Charts. This serivce is a cartographic representation of marine source data based on S-57 data format and content specification

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	data.gov
Date	

Feature Class	
Name:	AL_MS_BioSalinity_Zones_StateWaters_v2
Description:	

To improve the spatial and temporal resolution of the salinity zone geographies, the scheme was revised to include five zones, each with geographic boundaries that move to take into account the seasonal variation in salinity within each estuary. A multivariate methodology (Bulger et al., 1993) was applied to derive five bio-salinity zones in four "salinity seasons" for Gulf of Mexico estuaries (Christensen et al., 1997). This refined salinity zone spatial framework incorporated salinity characterization studies completed for Gulf for Mexico estuaries (Orlando et al. 1993). Precipitation, flow-gage data, and monthly salinity averages were evaluated to determine which months would be used to represent the high, low, and transitional salinity periods. A contour modeling procedure was applied to the data to develop seasonal salinity zones for each estuary

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA NCDDC
Date	1/1/2012

Feature Class	
Name:	ArtificialReefs
Description:	

An artificial reef is a human-made underwater structure, typically built to promote marine life in areas with a generally featureless bottom, control erosion, block ship passage, or improve surfing. Many reefs are built using objects that were built for other purposes, for example by sinking oil rigs (through the Rigs-to-Reefs program), scuttling ships, or by deploying rubble or construction debris. Other artificial reefs are purpose built (e.g. the reef balls) from PVC or concrete. Shipwrecks may become artificial reefs when preserved on the sea floor. Regardless of construction method, artificial reefs generally provide hard surfaces where algae and invertebrates such as barnacles, corals, and oysters attach; the accumulation of attached marine life in turn provides intricate structure and food for assemblages of fish. This is NOT a complete collection of artificial reefs on the seafloor, nor are the locations to be considered exact. The presence and location of the artificial reefs have been derived from multiple state websites. These data are intended for coastal and ocean planning. Not for navigation.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Point
Source	NOAA ERMA
Date	

Feature Class	
Name:	disposal_areas
Description:	

The GIS REST service for "Disposal Areass in U.S. waters" provides raster maps of the Disposal Areas designated by the Corps of Engineers for depositing dredged material where existing depths indicate that the intent is not to cause sufficient shoaling to create a danger to surface navigation. These areas are derived from NOAA's Electronic Navigational Charts.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	data.gov
Date	

Feature Class	
Name:	Gravel_Percentage
Description:	

This is a compilation of diverse data sets from NOAA NCDDC, describing the nature of seabed materials. The data is in the form of griddings, rendered as polygons as Shapefiles. It provides a summary of bottom types and bottom habitats in the Gulf of Mexico. The sediment characteristics are described as follows: if the most abundant of the seabed-sized fractions of rock, gravel, sand, or mud is >66%, then it is said to be dominant. If the most abundant of these is >33%, then it is subdominant.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA NCDDC
Date	

Feature Class	
Name:	habitat_substrate_po
Description:	

This layer shows all habitat and sediments in the Gulf of Mexico, and was created to use in determining Essential Fish Habitat (EFH) in the Gulf of Mexico. Provided by NOAA's National Marine Fisheries Service Southeast Regional Office.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA
Date	2010

Feature Class	
Name:	HarrisonCo_Borrow_Sites
Description:	

Excavated areas in the nearshore zone used as material replenishment for the Harrison County Sand Beach Renourishment Project.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	Harrison County
Date	2000

Feature Class	
Name:	Marine_Debris
Description:	

These data describe debris items identified via sidescan sonar surveys carried out by contractors to NOAA's Office of Coast Survey as part of the Gulf of Mexico Marine Debris Project (GOMMDP). These surveys are intended to locate marine debris in nearshore areas of the northeastern Gulf of Mexico deposited by hurricanes Katrina and Rita in 2005.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Point
Source	NOAA ERMA
Date	6/30/2010

Feature Class	
Name:	MS_borrow_sites
Description:	

These data represent locations where bottom sediments have been excavated for use in other locations.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA ERMA
Date	

Feature Class	
Name:	MS_salseasons
Description:	

To improve the spatial and temporal resolution of the salinity zone geographies, the scheme was revised to include five zones, each with geographic boundaries that move to take into account the seasonal variation in salinity within each estuary. A multivariate methodology (Bulger et al., 1993) was applied to derive five bio-salinity zones in four "salinity seasons" for Gulf of Mexico estuaries (Christensen et al., 1997). This refined salinity zone spatial framework incorporated salinity characterization studies completed for Gulf for Mexico estuaries (Orlando et al. 1993). Precipitation, flow-gage data, and monthly salinity averages were evaluated to determine which months would be used to represent the high, low, and transitional salinity periods. A contour modeling procedure was applied to the data to develop seasonal salinity zones for each estuary

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA NCDDC
Date	

Feature Class	
Name:	Mud_Percentage
Description:	

This is a compilation of diverse data sets from NOAA NCDDC, describing the nature of seabed materials. The data is in the form of griddings, rendered as polygons as Shapefiles. It provides a summary of bottom types and bottom habitats in the Gulf of Mexico. The sediment characteristics are described as follows: if the most abundant of the seabed-sized fractions of rock, gravel, sand, or mud is >66%, then it is said to be dominant. If the most abundant of these is >33%, then it is subdominant.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA NCDDC
Date	

Feature Class	
Name:	OysterTongingLine
Description:	

This data set is a shape file showing the location of the limits for oyster tonging in Mississippi waters. The Tonging Line is defined in accordance with Mississippi Code Ann. State Statue 49-15-3 (j) and in Title 22, Part 01, Chapter 14. All oyster reefs in waters north of the Tonging Line are defined as tonging reefs. This area is designated for tongers because of the depth and abundance of oysters.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polyline
Source	MDMR
Date	2010

Feature Class	
Name:	Rock_Percentage
Description:	

This is a compilation of diverse data sets from NOAA NCDDC, describing the nature of seabed materials. The data is in the form of griddings, rendered as polygons as Shapefiles. It provides a summary of bottom types and bottom habitats in the Gulf of Mexico. The sediment characteristics are described as follows: if the most abundant of the seabed-sized fractions of rock, gravel, sand, or mud is >66%, then it is said to be dominant. If the most abundant of these is >33%, then it is subdominant.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA NCDDC
Date	

Feature Class	
Name:	Sand_Percentage
Description:	

This is a compilation of diverse data sets from NOAA NCDDC, describing the nature of seabed materials. The data is in the form of griddings, rendered as polygons as Shapefiles. It provides a summary of bottom types and bottom habitats in the Gulf of Mexico. The sediment characteristics are described as follows: if the most abundant of the seabed-sized fractions of rock, gravel, sand, or mud is >66%, then it is said to be dominant. If the most abundant of these is >33%, then it is subdominant.

File Type	Feature Class
Feature Dataset	Physical_Marine
Geodatabase	Physical_Marine.gdb
Geometry Type	Polygon
Source	NOAA NCDDC
Date	

Feature Class	
Name:	ShipwreckLocations
Description:	

Locations of ship wrecks in Mississippi waters

File Type Feature Class
Feature Dataset Physical_Marine
Geodatabase Physical_Marine.gdb
Geometry Type Points
Source MDMR
Date

Feature Class	
Name:	usSEABED_GOM_Sediments
Description:	

This is a compilation of diverse data sets from NOAA NCDDC, describing the nature of seabed materials. The data is in the form of griddings, rendered as polygons as Shapefiles. It provides a summary of bottom types and bottom habitats in the Gulf of Mexico. The sediment characteristics are described as follows: if the most abundant of the seabed-sized fractions of rock, gravel, sand, or mud is >66%, then it is said to be dominant. If the most abundant of these is >33%, then it is subdominant.

File Type Feature Class
Feature Dataset Physical_Marine
Geodatabase Physical_Marine.gdb
Geometry Type Polygon
Source NOAA NCDDC
Date

Feature Class	
Name:	Census_Tracts
Description:	

Demographic data for census tracts as defined in the 2010 US Census

File Type Feature Class
Feature Dataset Reference
Geodatabase Boundaries_Reference.gdb
Geometry Type Polygon
Source US Census
Date

Feature Class	
Name:	Cities
Description:	

This map layer includes cities in the United States, Puerto Rico and the U.S. Virgin Islands. These cities were collected from the 1970 National Atlas of the United States. Where applicable, U.S. Census Bureau codes for named populated places were associated with each name to allow additional information to be attached. The Geographic Names Information System (GNIS) was also used as a source for additional information. This is a revised version of the December 2003 map layer.

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Point
Source	USGS
Date	2004

Feature Class	
Name:	City_Points
Description:	

Locations for cities within United States with populations of 10,000 or more (based on Census 2000 figures), all state capitals, and the national capital

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Point
Source	ESRI
Date	6/1/2013

Feature Class	
Name:	DOD_Installation_Bnd
Description:	

Boundaries of the most commonly known Department of Defense (DoD) sites, installations, ranges, and training areas in the United States and Territories

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	DOD
Date	6/21/2010

Feature Class	
Name:	DOD_Installation_Pts
Description:	

Locations of the most commonly known Department of Defense (DoD) sites, installations, ranges, and training areas in the United States and Territories

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Point
Source	DOD
Date	6/21/2010

Feature Class	
Name:	Federal_Land_Lines
Description:	

Linear federally owned land features (for example, national parkways and wild and scenic rivers) of the United States

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polyline
Source	USGS
Date	6/1/2013

Feature Class	
Name:	Federal_Land_Poly
Description:	

federal- and Indian-owned land areas for geographic display and analysis at regional and national levels

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	USGS
Date	6/1/2013

Feature Class	
Name:	Latitude_Longitude_Grid
Description:	

1- by 1-degree latitude-longitude grid covering the world with attributes that allow it to display grids at intervals of 1, 5, 10, 15, 20, and 30 degrees

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polyline
Source	ESRI
Date	6/1/2013

Feature Class	
Name:	MDEM_Building_Footprints
Description:	

Building Footprints for 5 coastal counties (Hancock, Harrison, Jackson, Pearl River and Stone)

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Polygon
Source	MDEQ
Date	

Feature Class	
Name:	MDEM_Building_Points
Description:	

Building Footprints for 5 coastal counties (Hancock, Harrison, Jackson, Pearl River and Stone)

File Type	Feature Class
Feature Dataset	Reference
Geodatabase	Boundaries_Reference.gdb
Geometry Type	Point
Source	MDEQ
Date	

Feature Class	
Name:	Zip_Codes
Description:	

Zip codes

File Type Feature Class
Feature Dataset Reference
Geodatabase Boundaries_Reference.gdb
Geometry Type Polygon
Source
Date

Feature Class	
Name:	MasterProjectsData
Description:	

Merged locations of various restoration projects in coastal Mississippi. Project sources include CIAP, DMR Artificial Reef Program, EPA, MS Beneficial Use of Dredge Sites, NFWF (non-GEBF), NFWF Bird Monitoring Locations, NOAA CRP, NRDA, USACE MSCIP, and USFWS Coastal Programs.

File Type Feature Class
Feature Dataset Restoration_Projects
Geodatabase Restoration_Projects.gdb
Geometry Type Point
Source
Date 2015

Feature Class	
Name:	CUSPLine
Description:	

Continuously Updated Shoreline Product for Mississippi from NOAA's Shoreline Data Explorer.

File Type Feature Class
Feature Dataset Shoreline
Geodatabase Shoreline.gdb
Geometry Type Polyline
Source NOAA
Date 2011

Feature Class	
Name:	GIS_HistoricShoreline_line
Description:	

The 1850, 1917, 1950, 1966, and 1971 shorelines and man made features were digitized from US Coast and Geodetic t-sheets. The 1986 shorelines and man made features were digitized from aerial photography. The scale and exact year of the t-sheet vary.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	MDEQ
Date	

Feature Class	
Name:	MS_shoreline
Description:	

This data set was created by conflating multiple data sources onto the most up to date high water shoreline. The data can be used as an inventory of recent shoreline conditions.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	Mississippi Department of Environmental Quality, Mississippi Office of Geology, Coastal and Energy Division
Date	3/5/2007

Feature Class	
Name:	MS_shoreline_change
Description:	

Shoreline change calculations for areas covered by yearly GPS shoreline surveys. Values represent yearly change in meters. Shoreline change calculated based on most recent surveys of greater than 5 years. These are not historical values, but do in some cases contain a weighted (low weight) historical average.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	Mississippi Department of Environmental Quality, Mississippi Office of Geology, Coastal and Energy Division
Date	

Feature Class	
Name:	mssh1850
Description:	

1847-1855 high water line (HWL) shoreline survey of the Mississippi Gulf Coast. Data were digitized from NOS U.S. Coast and Geodectic T-Sheets by Louisiana State University. These shorelines represent reliable positions for use in analyzing rates of change and documenting the location of the shoreline. In general the shoreline positions provide an accurate location to +/- 10 meters root mean square.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	Mississippi Department of Environmental Quality, Mississippi Office of Geology, Coastal and Energy Division
Date	

Feature Class	
Name:	mssh1917
Description:	

1916-1918 high water line (HWL) shoreline survey of the Mississippi Gulf Coast. Data were digitized from NOS U.S. Coast and Geodectic T-Sheets by Louisiana State University. These shorelines represent reliable positions for use in analyzing rates of change and documenting the location of the shoreline. In general the shoreline positions provide an accurate location to +/- 10 meters root mean square.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	Mississippi Department of Environmental Quality, Mississippi Office of Geology, Coastal and Energy Division
Date	

Feature Class	
Name:	mssh1950
Description:	

1950-1957 high water line (HWL) shoreline survey of the Mississippi Gulf Coast. Data were digitized from NOS U.S. Coast and Geodectic T-Sheets by Louisiana State University. These shorelines represent reliable positions for use in analyzing rates of change and documenting the location of the shoreline. In general the shoreline positions provide an accurate location to +/- 10 meters root mean square.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	Mississippi Department of Environmental Quality, Mississippi Office of Geology, Coastal and Energy Division
Date	

Feature Class	
Name:	mssh1986
Description:	

1986 high water line (HWL) shoreline survey of the Mississippi Gulf Coast. Data were digitized from aerial photography by Louisiana State University. These shorelines represent reliable positions for use in analyzing rates of change and documenting the location of the shoreline. In general the shoreline positions provide an accurate location to +/- 10 meters root mean square.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	Mississippi Department of Environmental Quality, Mississippi Office of Geology, Coastal and Energy Division
Date	

Feature Class	
Name:	Shoreline_Type_msp83
Description:	

Shoreline type mapped by the Mississippi Dept of Marine Resources. Types include beach, woody bank, bulkhead, riprap, marsh, mudbank, etc.

File Type	Feature Class
Feature Dataset	Shoreline
Geodatabase	Shoreline.gdb
Geometry Type	Polyline
Source	MDMR
Date	

Feature Class	
Name:	Airport_Areas
Description:	

Airports in the United States, Puerto Rico, U.S. Virgin Islands, and U.S. Possessions with airport passenger enplanements of greater than or equal to 100 passengers per year

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polygon
Source	USGS
Date	12/13/2013

Feature Class	
Name:	Airport_Points
Description:	

Airports in the United States, Puerto Rico, U.S. Virgin Islands, and U.S. Possessions with airport passenger enplanements of greater than or equal to 100 passengers per year

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Point
Source	USGS
Date	12/13/2013

Feature Class	
Name:	commercial_vessels_MS_2010
Description:	

These data were generated to provide insight into marine traffic patterns on a macro scale so they could be analyzed across the coastal waters of the Continental United States, this data set is for the UTM Zone 16N.

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polygon
Source	NOAA Coastal Services Center
Date	8/12/2014

Feature Class	
Name:	CommercialVesselDensityOctober2009_2010UTM16
Description:	

Vessel traffic for the year 2010 for the Continental US waters.

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polygon
Source	NOAA Coastal Services Center
Date	8/12/2014

Feature Class	
Name:	DMR_PublicAccess_Locations
Description:	

Public access to open water locations. This data was created by the MS Dept of Marine Resources

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Point
Source	MDMR
Date	

Feature Class	
Name:	Highways
Description:	

Major and minor highways of the United States

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polyline
Source	ESRI
Date	

Feature Class	
Name:	Interstates
Description:	

Rural and urban interstate highways

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polyline
Source	ESRI
Date	

Feature Class	
Name:	MaintainedChannels
Description:	

This layer shows coastal channels and waterways that are maintained and surveyed by the U.S. Army Corps of Engineers (USACE). These channels are necessary transportation systems that serve economic and national security interests.

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polygon
Source	NOAA Coastal Services Center
Date	

Feature Class	
Name:	Major_Highways
Description:	

Major highways of the United States

File Type Feature Class
Feature Dataset Transportation
Geodatabase Transportation.gdb
Geometry Type Polyline
Source ESRI
Date

Feature Class	
Name:	Marinas
Description:	

Locations of marinas in coastal Mississippi

File Type Feature Class
Feature Dataset Transportation
Geodatabase Transportation.gdb
Geometry Type
Source MDMR
Date

Feature Class	
Name:	Railroads
Description:	

Railroads in the 48 contiguous states

File Type Feature Class
Feature Dataset Transportation
Geodatabase Transportation.gdb
Geometry Type Polyline
Source U.S. National Transportation Atlas
Date

Feature Class	
Name:	ShippingFairwaysLanesAndZones
Description:	

Various shipping zones delineate activities and regulations for marine vessel traffic. Traffic lanes define specific traffic flow, while traffic separation zones assist opposing streams of marine traffic. Precautionary areas represent areas where ships must navigate with caution, and shipping safety fairways designate where artificial structures are prohibited.

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Polygon
Source	NOAA Coastal Services Center
Date	

Feature Class	
Name:	Stations_Terminals_and_Ports
Description:	

Transportation terminals such as bus stations, train stations, marine terminals, and other significant transportation nodes

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Point
Source	ESRI
Date	

Feature Class	
Name:	Stations_Terminals_and_Ports_1
Description:	

U.S. Transportation Terminals represents locations within United States for transportation terminals such as bus stations, train stations, marine terminals, and other significant transportation nodes.

File Type	Feature Class
Feature Dataset	Transportation
Geodatabase	Transportation.gdb
Geometry Type	Point
Source	ESRI
Date	

Feature Class	
Name:	Beach_Outfalls
Description:	

Locations of beach outfalls in Mississippi.

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Point
Source	MDEQ
Date	2015

Feature Class	
Name:	Flowlines_303d
Description:	

303d waters in Mississippi

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polyline
Source	MDEQ
Date	

Feature Class	
Name:	Flowlines_305b
Description:	

305b waters in Mississippi

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polyline
Source	MDEQ
Date	4/1/2014

Feature Class	
Name:	Flowlines_WQ_Stds
Description:	

Mississippi Water Quality Use Classifications that correspond with MS water quality criteria

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polyline
Source	MDEQ
Date	

Feature Class	
Name:	MSBeachMonitoringBacteria
Description:	

Bacteria (enterococci) counts at monitoring stations along the Mississippi coast, from 2000-2015.

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Point
Source	MDEQ
Date	2000-2015

Feature Class	
Name:	MSBeachMonitoringBacteria_ByYear
Description:	

Bacteria (enterococci) counts at monitoring stations along the Mississippi coast, from 2000-2015, summarized by year.

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Point
Source	MDEQ
Date	2000-2015

Feature Class	
Name:	MSBeachMonitoringBacteria_Closures
Description:	

Depicts, for each monitoring station, the number of dates on which bacteria counts in exceedance of a designated threshold necessitated a beach advisory or closure.

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Point
Source	MDEQ
Date	2000-2015

Feature Class	
Name:	MWCRT_Final
Description:	

Individual attribute scores, and Impact/Stressor and Environmental Resource Value summary scores, for the terrestrial component of the Mississippi Comprehensive Ecosystem Restoration Tool.

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polygon
Source	
Date	2015

Feature Class	
Name:	SWAT_Output_MCERT_AOI
Description:	

Merged outputs for simulations of water, sediment, and nutrient flow through Mississippi coastal watersheds for the period 2006-2013. Simulations were performed using the Soil & Water Assessment Tool (SWAT).

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polygon
Source	
Date	2015

Feature Class	
Name:	Waterbody_305b
Description:	

305(b) assessments

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polygon
Source	MDEQ
Date	4/1/2012

Feature Class	
Name:	WQ_Stds_Wtrbdy
Description:	

Mississippi Water Quality Use Classifications that correspond with MS water quality criteria

File Type	Feature Class
Feature Dataset	Water_Quality
Geodatabase	Water_Quality.gdb
Geometry Type	Polygon
Source	MDEQ
Date	