Site ID	**14CCT01-GB30S (Marsh Surface)**		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	16:30	Departure Time (CDT)	Not recorded
Latitude (DD)	30.38283	Longitude (DD)	-88.43216
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	108
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A308	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	*Juncus* (BNR)	Water Type (Marsh, Estuarine)	Marsh pore water
Forams (preserved, x2)	Yes	Temperature (°C)	29.5
Bulk Density	Yes	Barometric Pressure (mm Hg)	760.7
Grain Size	Yes	Dissolved Oxygen (DO) (%)	2.2
Stable Isotopes/Metals	Yes	DO (mg/L)	0.15
Distance from GPS (m)	1	Specific Conductance (mS/cm)	36.44
Azimuth from GPS	E	Salinity	22.91
		pH (-)	6.22
		ORP (mV)	57.24
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
Distance from GPS		Azimuth from GPS	
Azimuth from GPS			

Notes

Small *Juncus* stand along shoreline, grades to pine savannah within 100m.

Photos

Photo #: ~~797-800~~ 1588-1596

Site ID	14CCT01-GB32G (Estuarine Grab)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	14:33	Departure Time (CDT)	14:48
Latitude (DD)	30.35775	Longitude (DD)	-88.41827
Water Depth (m)	1.1		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	106
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	14:35
Occupation Time (min)		Stop Time (CDT)	14:48
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	761.6
Grain Size	Yes	Dissolved Oxygen (DO) (%)	74.2
Stable Isotopes/Metals	Yes	DO (mg/L)	4.82
Distance from GPS (m)		Specific Conductance (mS/cm)	42.18
Azimuth from GPS		Salinity	26.94
		pH (-)	7.56
		ORP (mV)	51.9
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Mouth of Crooked Bayou into Point aux Chenes Bay (Jose Bay)

Photos

Photo #: 1580-1583

Site ID	14CCT01-GB33S (Marsh Surface)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	9:20	Departure Time (CDT)	9:30
Latitude (DD)	30.35016	Longitude (DD)	-88.39619
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	100
YSI	N/A	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A303	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Not recorded	Water Type (Marsh, Estuarine)	
Forams (preserved, x2)	Yes	Temperature (°C)	
Bulk Density	Yes	Barometric Pressure (mm Hg)	
Grain Size	Yes	Dissolved Oxygen (DO) (%)	
Stable Isotopes/Metals	Yes	DO (mg/L)	
Distance from GPS (m)	1	Specific Conductance (mS/cm)	
Azimuth from GPS	W	Salinity	
		pH (-)	
		ORP (mV)	
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Start of cross-berm transect.

Photos

Photo #: 1515-1518

Site ID	14CCT01-GB35G (Estuarine Grab)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	14:11	Departure Time (CDT)	14:24
Latitude (DD)	30.35303	Longitude (DD)	-88.41431
Water Depth (m)	Not recorded		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	105
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	14:11
Occupation Time (min)		Stop Time (CDT)	14:22
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	761.5
Grain Size	Yes	Dissolved Oxygen (DO) (%)	91.6
Stable Isotopes/Metals	Yes	DO (mg/L)	5.45
Distance from GPS (m)		Specific Conductance (mS/cm)	42.21
Azimuth from GPS		Salinity	26.95
		pH (-)	7.82
		ORP (mV)	34.9
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Middle of Jose Bay

Photos

Photo #: 1576-1579

Site ID	14CCT01-GB36D,M,R,S (Shovel, Push, Auger, Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	8:45	Departure Time (CDT)	10:00
Latitude (DD)	30.37953	Longitude (DD)	-88.41277
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	90
YSI	Pro-Plus	Camera	Nikon AW100/D5200
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A201	Start Time (CDT)	
Occupation Time (min)	60	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	black needle rush	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	28.0
Bulk Density	Yes	Barometric Pressure (mm Hg)	765.0
Grain Size	Yes	Dissolved Oxygen (DO) (%)	4.5
Stable Isotopes/Metals	Yes	DO (mg/L)	0.30
Distance from GPS (m)	1	Specific Conductance (mS/cm)	41.17
Azimuth from GPS	S	Salinity	26.26
		pH (-)	6.14
		ORP (mV)	48.6
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type	black needle rush	Recovery Depth (cm)	40
4" OD Barrel Length (cm)	118.1	Distance from GPS (m)	2
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	57.0	Azimuth from GPS	W
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	55.5		
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)	1.5	Number of Sections	2
Recovered 4" OD Core Length (cm)	55	Total Core Depth (cm)	100
Distance from GPS (m)	3	Photo #s of Sediment Sections (D5200)	307-329 (see below)
Azimuth from GPS	W	Distance from GPS (m)	3
		Azimuth from GPS	W

Notes

Local marsh water was added to marsh push core (1mm accretion)
Some sample lost ~4cm

Photos

Photo #: 1457(Shovel Core),1458-1461; DSLR # 303-335
Auger photos: 0-50cm, #307-317
50-100cm, #319-329

Site ID	14CCT01-GB37G (Estuarine Grab, Duplicate of GB67G)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	11:38	Departure Time (CDT)	12:00
Latitude (DD)	30.34833	Longitude (DD)	-88.41104
Water Depth (m)	0.7		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	103
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	11:40
Occupation Time (min)		Stop Time (CDT)	11:48
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.1
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.6
Grain Size	Yes	Dissolved Oxygen (DO) (%)	63.9
Stable Isotopes/Metals	Yes	DO (mg/L)	4.16
Distance from GPS (m)		Specific Conductance (mS/cm)	41.69
Azimuth from GPS		Salinity	26.62
		pH (-)	7.76
		ORP (mV)	52.8
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Fine sand, leeward side of relict Grand Batture Island, NW of L'Isle Chaude Bay
Duplicate of site GB67G, no duplicate radium sample

Photos

Photo #: 1571-1573

Site ID	14CCT01-GB38S (Surface Sample)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	15:25	Departure Time (CDT)	15:45
Latitude (DD)	30.36934	Longitude (DD)	-88.41933
Water Depth (m)			
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	107
YSI	N/A	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A307	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: Refractometer***	
Vegetation Type	Not recorded	Water Type (Marsh, Estuarine)	Salt Pan
Forams (preserved, x2)	Yes	Temperature (°C)	
Bulk Density	Yes	Barometric Pressure (mm Hg)	
Grain Size	Yes	Dissolved Oxygen (DO) (%)	
Stable Isotopes/Metals	Yes	DO (mg/L)	
Distance from GPS (m)	1	Specific Conductance (mS/cm)	
Azimuth from GPS	Not recorded	Salinity	45
		pH (-)	
		ORP (mV)	
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Salt pan consisting of sparse Spartina patens, Salicornia, and Distichulus spicata. Salicornia the dominant species in the panne itself.
Substitute site for 33 (taken at other location [berm]).

Photos

Photo #: 1584-1587

Site ID	14CCT01-GB39D,M,R,S (Shovel, Push, Auger, Surface)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	12:30	Departure Time (CDT)	13:45
Latitude (DD)	30.35484	Longitude (DD)	-88.40569
Water Depth (m)	N/A		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	104
YSI	Pro-Plus	Camera	Nikon AW100/D5200
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A306	Start Time (CDT)	
Occupation Time (min)	~30	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	black needle rush	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	29.4
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.1
Grain Size	Yes	Dissolved Oxygen (DO) (%)	7.7
Stable Isotopes/Metals	Yes	DO (mg/L)	0.49
Distance from GPS (m)	1	Specific Conductance (mS/cm)	41.91
Azimuth from GPS	W	Salinity	26.76
		pH (-)	6.60
		ORP (mV)	-209.8
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type	black needle rush	Recovery Depth (cm)	40
4" OD Barrel Length (cm)	144.1	Distance from GPS (m)	2
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	62.0	Azimuth from GPS	W
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	58.0		
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)	4	Number of Sections	2
Recovered 4" OD Core Length (cm)	64	Total Core Depth (cm)	100
Distance from GPS (m)	1.5	Photo #s of Sediment Sections (D5200)	444-472 (see below)
Azimuth from GPS	N	Distance from GPS (m)	2
		Azimuth from GPS	W

Notes

MRDS collected in mixed Juncus roemarianus and Spartina alterniflora stand located on North Rigolet island. Vegetation was spotty and largely driven by subtle elevation / flooding conditions.

Photos

Photo #: 1572-1575, 432-443
Auger photos: 0-50cm, #444-452
50-100cm, #453-472

Site ID	14CCT01-GB40G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	15:40	Departure Time (CDT)	15:53
Latitude (DD)	30.39826	Longitude (DD)	-88.40607
Water Depth (m)	0.7		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	085
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	15:41
Occupation Time (min)		Stop Time (CDT)	15:53
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.9
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.7
Grain Size	Yes	Dissolved Oxygen (DO) (%)	66.9
Stable Isotopes/Metals	Yes	DO (mg/L)	4.21
Distance from GPS (m)		Specific Conductance (mS/cm)	44.04
Azimuth from GPS		Salinity	28.23
		pH (-)	7.14
		ORP (mV)	55.0
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Few fine sand, silt. Collected on a tidal distributary channel that branches off of Bayou Heron running to the NW.

Photos

Photo #: 1435-1438

Site ID	14CCT01-GB41G (Estuarine Grab)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:40	Departure Time (CDT)	10:54
Latitude (DD)	30.34300	Longitude (DD)	-88.40596
Water Depth (m)	0.9		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	102
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	10:41
Occupation Time (min)		Stop Time (CDT)	10:53
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.8
Grain Size	Yes	Dissolved Oxygen (DO) (%)	77.0
Stable Isotopes/Metals	Yes	DO (mg/L)	4.96
Distance from GPS (m)		Specific Conductance (mS/cm)	41.93
Azimuth from GPS		Salinity	26.79
		pH (-)	7.91
		ORP (mV)	55.3
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Estuarine grab collected windward of the Grand Batture Islands. Consisted of slightly muddy fine sand.

Photos

Photo #: 1530-1533

Site ID	14CCT01-GB42S (Marsh Surface)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	9:06	Departure Time (CDT)	9:17
Latitude (DD)	30.35044	Longitude (DD)	-88.39632
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	099
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A302	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Spartina alt./Juncus	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	26.0
Bulk Density	Yes	Barometric Pressure (mm Hg)	763.0
Grain Size	Yes	Dissolved Oxygen (DO) (%)	3.6
Stable Isotopes/Metals	Yes	DO (mg/L)	0.26
Distance from GPS (m)	1	Specific Conductance (mS/cm)	30.46
Azimuth from GPS	SW	Salinity	18.87
		pH (-)	6.39
		ORP (mV)	-170
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Marsh surface sample collected behind the seaward berm of South Rigolets Island (i.e.,part of the relict Grand Batture Islands). Vegetation was a mixed stand of Spartina alterniflora and Juncus roemarianus. Spartina slightly more abundant.

Photos

Photo #: 1511-1514

Site ID	14CCT01-GB43G (Estuarine Grab)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:20	Departure Time (CDT)	10:30
Latitude (DD)	30.34010	Longitude (DD)	-88.40280
Water Depth (m)	2.3		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	101
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	10:20
Occupation Time (min)		Stop Time (CDT)	Not recorded
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.4
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.9
Grain Size	Yes	Dissolved Oxygen (DO) (%)	77.0
Stable Isotopes/Metals	Yes	DO (mg/L)	5.07
Distance from GPS (m)		Specific Conductance (mS/cm)	42.00
Azimuth from GPS		Salinity	26.03
		pH (-)	7.94
		ORP (mV)	62.4
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

No duplicate taken at this site as originally planned. The estuarine grab was collected at the most offshore location within Mississippi Sound. The sediment texture is notably finer than observed on the relict shoal

Photos

Photo #: 1526-1529

Site ID	14CCT01-GB44G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	16:33	Departure Time (CDT)	16:43
Latitude (DD)	30.40978	Longitude (DD)	-88.40246
Water Depth (m)	2		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	088
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	16:33
Occupation Time (min)		Stop Time (CDT)	16:43
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	31.7
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.8
Grain Size	Yes	Dissolved Oxygen (DO) (%)	80.9
Stable Isotopes/Metals	Yes	DO (mg/L)	5.10
Distance from GPS (m)		Specific Conductance (mS/cm)	44.40
Azimuth from GPS		Salinity	28.48
		pH (-)	7.41
		ORP (mV)	58.4
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

most upstream grab collected in Bayou Heron.

Photos

Photo #: 1447-1450

Site ID	14CCT01-GB45G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	15:20	Departure Time (CDT)	15:35
Latitude (DD)	30.39625	Longitude (DD)	-88.40147
Water Depth (m)	1		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	084
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	15:23
Occupation Time (min)		Stop Time (CDT)	15:35
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	31.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.8
Grain Size	Yes	Dissolved Oxygen (DO) (%)	74.4
Stable Isotopes/Metals	Yes	DO (mg/L)	4.62
Distance from GPS (m)		Specific Conductance (mS/cm)	43.48
Azimuth from GPS		Salinity	27.82
		pH (-)	7.32
		ORP (mV)	62.0
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Shell hash. Collected at the confluence of Bayou Heron and other (i.e., GB40G) tidal tributary.

Photos

Photo #: 1430-1434

Site ID	14CCT01-GB46G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	16:18	Departure Time (CDT)	16:30
Latitude (DD)	30.40472	Longitude (DD)	-88.39976
Water Depth (m)	1.8		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	087
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	16:18
Occupation Time (min)		Stop Time (CDT)	16:27
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	31.5
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.7
Grain Size	Yes	Dissolved Oxygen (DO) (%)	80.1
Stable Isotopes/Metals	Yes	DO (mg/L)	4.99
Distance from GPS (m)		Specific Conductance (mS/cm)	43.90
Azimuth from GPS		Salinity	28.13
		pH (-)	7.38
		ORP (mV)	60.8
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Silty mud. Grab collected from Bayou Heron. Downstream of GB44G.

Photos

Photo #: 1443-1446

Site ID	14CCT01-GB47G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	15:06	Departure Time (CDT)	15:19
Latitude (DD)	30.39472	Longitude (DD)	-88.39981
Water Depth (m)	2.4		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	083
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	15:06
Occupation Time (min)		Stop Time (CDT)	15:16
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.3
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.9
Grain Size	Yes	Dissolved Oxygen (DO) (%)	63.3
Stable Isotopes/Metals	Yes	DO (mg/L)	4.00
Distance from GPS (m)		Specific Conductance (mS/cm)	43.42
Azimuth from GPS		Salinity	27.81
		pH (-)	7.25
		ORP (mV)	51.5
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Grab collected halfway up Bayou Heron.

Photos

Photo #: 1424-1429

Site ID	14CCT01-GB48G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	14:45	Departure Time (CDT)	15:00
Latitude (DD)	30.39098	Longitude (DD)	-88.39874
Water Depth (m)	1		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	082
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	14:47
Occupation Time (min)		Stop Time (CDT)	15:00
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	31.4
Bulk Density	Yes	Barometric Pressure (mm Hg)	765.0
Grain Size	Yes	Dissolved Oxygen (DO) (%)	79.3
Stable Isotopes/Metals	Yes	DO (mg/L)	5.00
Distance from GPS (m)		Specific Conductance (mS/cm)	43.02
Azimuth from GPS		Salinity	27.51
		pH (-)	7.48
		ORP (mV)	44.1
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Shell fragments in mud, few fine sand. Grab collected on Bayou Heron.

Photos

Photo #: 1420-1423

Site ID	14CCT01-GB49S (Marsh Surface)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	17:30	Departure Time (CDT)	17:40
Latitude (DD)	30.40650	Longitude (DD)	-88.39867
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	089
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A102	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Juncus	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	30.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.9
Grain Size	Yes	Dissolved Oxygen (DO) (%)	60.3
Stable Isotopes/Metals	Yes	DO (mg/L)	4.11
Distance from GPS (m)	1	Specific Conductance (mS/cm)	23.46
Azimuth from GPS	SW	Salinity	14.10
		pH (-)	7.04
		ORP (mV)	67.38
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

No duplicate taken. Marsh surface collection. Large Juncus roemarianus stand located well inland of the tidal creek (~150 m). Located due east of large salt panne. Notable description of the salt panne was that there was notable natural and anthropogenic wrack observed in the salt panne suggesting possibe maximum extent of flooding at some point and time.

Photos

Photo #: 1451-1454

Site ID	14CCT01-GB50S (Marsh Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	16:05	Departure Time (CDT)	16:20
Latitude (DD)	30.39851	Longitude (DD)	-88.40186
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	095
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A205	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Juncus	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	28.7
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.4
Grain Size	Yes	Dissolved Oxygen (DO) (%)	2.9
Stable Isotopes/Metals	Yes	DO (mg/L)	0.2
Distance from GPS (m)	1	Specific Conductance (mS/cm)	31.38
Azimuth from GPS	E	Salinity	19.42
		pH (-)	6.34
		ORP (mV)	-39.9
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Large Juncus roemarianus stand located due north of the confluence of Bayou Heron and unnamed tidal distributary.

Photos

Photo #: 1474-1477

Site ID	14CCT01-GB51G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	15:58	Departure Time (CDT)	16:15
Latitude (DD)	30.40038	Longitude (DD)	-88.39831
Water Depth (m)	1.9		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	086
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	15:58
Occupation Time (min)		Stop Time (CDT)	16:08
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	764.8
Grain Size	Yes	Dissolved Oxygen (DO) (%)	72.6
Stable Isotopes/Metals	Yes	DO (mg/L)	4.68
Distance from GPS (m)		Specific Conductance (mS/cm)	43.80
Azimuth from GPS		Salinity	28.09
		pH (-)	7.25
		ORP (mV)	57.8
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Oyster bed. Grab located in Bayou Heron channel.

Photos

Photo #: 1439-1441

Site ID	14CCT01-GB52G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	14:24	Departure Time (CDT)	14:36
Latitude (DD)	30.38806	Longitude (DD)	-88.39823
Water Depth (m)	2.8		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	081
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	14:26
Occupation Time (min)		Stop Time (CDT)	14:34
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.7
Bulk Density	Yes	Barometric Pressure (mm Hg)	765.3
Grain Size	Yes	Dissolved Oxygen (DO) (%)	78.3
Stable Isotopes/Metals	Yes	DO (mg/L)	5.00
Distance from GPS (m)		Specific Conductance (mS/cm)	42.91
Azimuth from GPS		Salinity	27.43
		pH (-)	7.43
		ORP (mV)	41.5
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Fine-medium sand, black silt matrix. Estuarine grab collected in the seaward trunk of Bayou Heron (next to last downstream site).

Photos

Photo #: 1416-1420

Site ID	14CCT01-GB53D,M,R,S (Shovel, Push, Auger, Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	12:00	Departure Time (CDT)	14:00
Latitude (DD)	30.38452	Longitude (DD)	-88.39787
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	080
YSI	Pro-Plus	Camera	Nikon AW100/D5200
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A101	Start Time (CDT)	
Occupation Time (min)	95	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Black needle rush	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	28.9
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.0
Grain Size	Yes	Dissolved Oxygen (DO) (%)	1.2
Stable Isotopes/Metals	Yes	DO (mg/L)	0.08
Distance from GPS (m)	1	Specific Conductance (mS/cm)	38.48
Azimuth from GPS	N	Salinity	24.36
		pH (-)	6.06
		ORP (mV)	55.4
Marsh Push Core: 4" Polycarbonate Barrels	**Core A**	***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type	Black needle rush	Recovery Depth (cm)	38
4" OD Barrel Length (cm)	121.9	Distance from GPS (m)	2
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	66	Azimuth from GPS	E
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	38		
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)	28	Number of Sections	3
Recovered 4" OD Core Length (cm)	71	Total Core Depth (cm)	130
Distance from GPS (m)	1.5	Photo #s of Sediment Sections (D5200)	253-302 (see below)
Azimuth from GPS	E	Distance from GPS (m)	2
		Azimuth from GPS	E

Notes

Marsh core B
ITGIDS: 35cm
ITGODS: 28cm
Recovered 4" OD Core Length (cm): 37cm
4" OD Compaction: 7cm
Barrel Length: Not recorded
Peat auger sampled with 10cm overlap of top for each section
MRDS collected in large Juncus roemarianus stand located on the southern marsh peninsula separating the southern shore of Bayou Heron and the NE shoreline of Middle Bay.

Photos

Photo #: 1408-1415
Auger photos: 0-50cm, #253-279
40-90cm, #280-291
80-130cm, #292-302

Site ID	14CCT01-GB54S (Marsh Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	16:45	Departure Time (CDT)	17:00
Latitude (DD)	30.40182	Longitude (DD)	-88.37948
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	097
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A207	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	*Juncus*	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	27.9
Bulk Density	Yes	Barometric Pressure (mm Hg)	763.0
Grain Size	Yes	Dissolved Oxygen (DO) (%)	3.1
Stable Isotopes/Metals	Yes	DO (mg/L)	0.21
Distance from GPS (m)	1	Specific Conductance (mS/cm)	35.38
Azimuth from GPS	W	Salinity	22.21
		pH (-)	6.37
		ORP (mV)	-11.70
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Marsh surface grab collected along the upstream portion of Bayou Heron in large stand of Juncus roemarianus.

Photos

Photo #: 1485-1488

Site ID	14CCT01-GB55S (Marsh Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	15:18	Departure Time (CDT)	15:30
Latitude (DD)	30.39269	Longitude (DD)	-88.39664
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	093
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A204	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Not recorded	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	27.9
Bulk Density	Yes	Barometric Pressure (mm Hg)	763.0
Grain Size	Yes	Dissolved Oxygen (DO) (%)	13
Stable Isotopes/Metals	Yes	DO (mg/L)	0.85
Distance from GPS (m)	1	Specific Conductance (mS/cm)	39.27
Azimuth from GPS	N	Salinity	24.94
		pH (-)	6.5
		ORP (mV)	-138
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Marsh surface grab collected on the north shore of Bayou Heron approximately equidistant from it and another tidal distributary to the east.

Photos

Photo #: 1470-1473

Site ID	14CCT01-GB56S (Marsh Surface, Duplicate of GB60S)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	13:45	Departure Time (CDT)	15:20
Latitude (DD)	30.38936	Longitude (DD)	-88.39754
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	092
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A203	Start Time (CDT)	
Occupation Time (min)	Not recorded	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Black needle rush	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	27.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	763.6
Grain Size	Yes	Dissolved Oxygen (DO) (%)	8.5
Stable Isotopes/Metals	Yes	DO (mg/L)	0.55
Distance from GPS (m)	1	Specific Conductance (mS/cm)	41.10
Azimuth from GPS	N	Salinity	26.25
		pH (-)	6.00
		ORP (mV)	-197.7
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Duplicate of 14GB60S. Marsh surface grab collected on the north shore of Bayou Heron proximal to confluence of bayou and bay.

Photos

See 14GB60DMRS

Site ID	14CCT01-GB57S (Marsh Surface)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	9:00	Departure Time (CDT)	9:05
Latitude (DD)	30.35060	Longitude (DD)	-88.39640
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	098
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A301	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Juncus	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	25.8
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.9
Grain Size	Yes	Dissolved Oxygen (DO) (%)	5.3
Stable Isotopes/Metals	Yes	DO (mg/L)	0.36
Distance from GPS (m)	1	Specific Conductance (mS/cm)	31.94
Azimuth from GPS	S	Salinity	19.89
		pH (-)	6.01
		ORP (mV)	-37.90
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Peat auger, 0-120cm, not kept. Additional surface sample collected on the leeward side of the North Rigeolot Island / Grand Batture berm. This is the most inland of all sites collected at the berm location. Predominantly Juncus marsh running along the banks of a small tidal channel.

Photos

Auger Photo #: 1505-1510

Site ID	14CCT01-GB58G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	11:11	Departure Time (CDT)	11:21
Latitude (DD)	30.38568	Longitude (DD)	-88.39624
Water Depth (m)	2.4		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	079
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	11:11
Occupation Time (min)		Stop Time (CDT)	11:20
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	30.0
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.4
Grain Size	Yes	Dissolved Oxygen (DO) (%)	69.0
Stable Isotopes/Metals	Yes	DO (mg/L)	4.42
Distance from GPS (m)		Specific Conductance (mS/cm)	42.49
Azimuth from GPS		Salinity	27.16
		pH (-)	7.69
		ORP (mV)	60.1
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Silt + clay fragments. Mouth of Bayou Heron entering into Middle Bay. Notably large clay clasts observed in the sediment.

Photos

Photo #: 1403-1407

Site ID	14CCT01-GB59G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:50	Departure Time (CDT)	11:05
Latitude (DD)	30.37889	Longitude (DD)	-88.39587
Water Depth (m)	0.9		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	078
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	10:52
Occupation Time (min)		Stop Time (CDT)	11:03
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.9
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.3
Grain Size	Yes	Dissolved Oxygen (DO) (%)	80.5
Stable Isotopes/Metals	Yes	DO (mg/L)	5.24
Distance from GPS (m)		Specific Conductance (mS/cm)	42.01
Azimuth from GPS		Salinity	26.83
		pH (-)	7.97
		ORP (mV)	52.9
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Grab collected in the middle of Middle Bay.

Photos

Photo #: 1398-1402

Site ID	14CCT01-GB60D,M,R,S (Shovel, Push, Auger, Surface[Duplicate of GB56S])		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	13:45	Departure Time (CDT)	15:20
Latitude (DD)	30.38936	Longitude (DD)	-88.39754
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	092
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A203	Start Time (CDT)	
Occupation Time (min)	Not recorded	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Black needle rush	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	27.2
Bulk Density	Yes	Barometric Pressure (mm Hg)	763.6
Grain Size	Yes	Dissolved Oxygen (DO) (%)	8.5
Stable Isotopes/Metals	Yes	DO (mg/L)	0.55
Distance from GPS (m)	1	Specific Conductance (mS/cm)	41.10
Azimuth from GPS	N	Salinity	26.25
		pH (-)	6.00
		ORP (mV)	-197.7
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type	black needle rush	Recovery Depth (cm)	40
4" OD Barrel Length (cm)	123	Distance from GPS (m)	2
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	55	Azimuth from GPS	W
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	35		
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)	20	Number of Sections	3
Recovered 4" OD Core Length (cm)	65	Total Core Depth (cm)	~108
Distance from GPS (m)	2	Photo #s of Sediment Sections (D5200)	373-378 (see below)
Azimuth from GPS	E	Distance from GPS (m)	1
		Azimuth from GPS	S

Notes

Site 14GB56S is duplicate of 14GB60S. Marsh MRDS collected on the north shore of Bayou Heron proximal to confluence of bayou and bay.

Photos

Photo #: 1466-1469
Shovel core photos: 373-378
Auger photos: 0-50cm, #378-383
50-100cm, #384-393
58-108cm, #394-404

Site ID	14CCT01-GB61G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:29	Departure Time (CDT)	10:43
Latitude (DD)	30.37439	Longitude (DD)	-88.39223
Water Depth (m)	1.7		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	077
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	10:32
Occupation Time (min)		Stop Time (CDT)	10:42
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.5
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.3
Grain Size	Yes	Dissolved Oxygen (DO) (%)	76.2
Stable Isotopes/Metals	Yes	DO (mg/L)	4.86
Distance from GPS (m)		Specific Conductance (mS/cm)	42.23
Azimuth from GPS		Salinity	26.93
		pH (-)	7.92
		ORP (mV)	55.0
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Silt/clay mixture with very fine sand. Estuarine grab located at a small pass between North Rigolets Island and Long Island (marsh).

Photos

Photo #: 1393-1397

Site ID	14CCT01-GB62G (Estuarine Grab, Duplicate of GB70G)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:05	Departure Time (CDT)	10:20
Latitude (DD)	30.36995	Longitude (DD)	-88.38802
Water Depth (m)	1.6		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	076
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	10:06
Occupation Time (min)		Stop Time (CDT)	10:17
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.8
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.3
Grain Size	Yes	Dissolved Oxygen (DO) (%)	75.6
Stable Isotopes/Metals	Yes	DO (mg/L)	4.92
Distance from GPS (m)		Specific Conductance (mS/cm)	42.22
Azimuth from GPS		Salinity	26.97
		pH (-)	7.95
		ORP (mV)	57.1
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Pentrometer		Recovery Depth (cm)	
Shear Strength (kg/cm^2)		Distance from GPS	
Vegetation Type		Azimuth from GPS	
4" OD Barrel Length (cm)			
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)		Number of Sections	
		Total Core Depth (cm)	
4" OD Compaction (cm)		Photo #s of Sediment Sections	
Recovered 4" OD Core Length (cm)		Distance from GPS	
Distance from GPS		Azimuth from GPS	
Azimuth from GPS			
(Fill in Surface/Grab section for surface samples taken at coring sites)			

Notes

Sites 62 and 70 are duplicates, only one radium sample collected
Fine sand. Estuarine grab located in the secondary (SE) portion of Middle Bay, leeward of the relict Grand Batture Island shoals.

Photos

Photo #: 1388-1392

Site ID	14CCT01-GB63G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	9:37	Departure Time (CDT)	9:55
Latitude (DD)	30.36825	Longitude (DD)	-88.38216
Water Depth (m)	1.6		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	075
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	9:37
Occupation Time (min)		Stop Time (CDT)	9:54
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.7
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.2
Grain Size	Yes	Dissolved Oxygen (DO) (%)	72.2
Stable Isotopes/Metals	Yes	DO (mg/L)	4.89
Distance from GPS (m)		Specific Conductance (mS/cm)	42.23
Azimuth from GPS		Salinity	26.99
		pH (-)	7.86
		ORP (mV)	72.2
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Fine sand. Estuarine grab collected just leeward of relict Grand Batture Island shoal.

Photos

Photo #: 1384-1387

Site ID	14CCT01-GB64D,M,R,S (Shovel, Push, Auger, Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:30	Departure Time (CDT)	Not recorded
Latitude (DD)	30.38717	Longitude (DD)	-88.38207
Water Depth (m)	0		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	091
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A202	Start Time (CDT)	
Occupation Time (min)	60	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	Black needle rush	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	28.9
Bulk Density	Yes	Barometric Pressure (mm Hg)	765.3
Grain Size	Yes	Dissolved Oxygen (DO) (%)	2.4
Stable Isotopes/Metals	Yes	DO (mg/L)	0.16
Distance from GPS (m)	1	Specific Conductance (mS/cm)	37.31
Azimuth from GPS	N	Salinity	23.51
		pH (-)	6.47
		ORP (mV)	-23.3
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type	Black needle rush	Recovery Depth (cm)	38
4" OD Barrel Length (cm)	123.8	Distance from GPS (m)	1
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)	40	Azimuth from GPS	NE
In-the-Ground Outside Depth to Surface (ITGODS) (cm)	37		
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)	3	Number of Sections	3
Recovered 4" OD Core Length (cm)	72	Total Core Depth (cm)	108
Distance from GPS (m)	1.5	Photo #s of Sediment Sections (D5200)	336-340 (see below)
Azimuth from GPS	NE	Distance from GPS (m)	1
		Azimuth from GPS	E

Notes

Barrel length: 124.2cm
ITGIDS: 55cm
ITGODS: 49cm
Compaction: 6cm
Recovered length: Not recorded
Distance from GPS: 3m
Azimuth from GPS: E MRDS collection along the northern shore of Middle Bay (??) on what is known as Barton Island. The marsh in this area was highly fragmented. Storm a brewing at this site. Collected on the leeward side of a relict wrack deposit. Juncus grass was notably lower than areas toward the channel.

Photos

Photo #: 1462-1465
Shovel core photos: 336-340
Auger photos: 0-50cm, #341-351
50-100cm, #352-363
58-108cm, #364-372

Site ID	14CCT01-GB65G (Estuarine Grab)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	8:35	Departure Time (CDT)	9:00
Latitude (DD)	30.36491	Longitude (DD)	-88.37468
Water Depth (m)	1.2		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	073
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	8:45
Occupation Time (min)		Stop Time (CDT)	8:59
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.6
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.1
Grain Size	Yes	Dissolved Oxygen (DO) (%)	68.6
Stable Isotopes/Metals	Yes	DO (mg/L)	4.78
Distance from GPS (m)		Specific Conductance (mS/cm)	41.13
Azimuth from GPS		Salinity	26.20
		pH (-)	7.97
		ORP (mV)	76.2
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Silty fine sand. Estuarine grab collected at the top of relict Grand Batture Island shoal.

Photos

Photo #: 1380-1383

Site ID	14CCT01-GB67G (Estuarine Grab, Duplicate of GB37G)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	11:38	Departure Time (CDT)	12:00
Latitude (DD)	30.34833	Longitude (DD)	-88.41104
Water Depth (m)	0.7		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	103
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	**See GB37G**
GPS Session ID		Start Time (CDT)	
Occupation Time (min)		Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.1
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.6
Grain Size	Yes	Dissolved Oxygen (DO) (%)	63.9
Stable Isotopes/Metals	Yes	DO (mg/L)	4.16
Distance from GPS (m)		Specific Conductance (mS/cm)	41.69
Azimuth from GPS		Salinity	26.62
		pH (-)	7.76
		ORP (mV)	52.8
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Fine sand
Duplicate of site GB37G, no duplicate radium sample

Photos

Photo #: 1571-1573

Site ID	14CCT01-GB68S (Marsh Surface)		
Date	September 16, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	16:20	Departure Time (CDT)	16:30
Latitude (DD)	30.39848	Longitude (DD)	-88.40120
Water Depth (m)	NA		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	096
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID	A206	Start Time (CDT)	
Occupation Time (min)	5	Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type	*Spartina alt.* (short)	Water Type (Marsh, Estuarine)	Marsh
Forams (preserved, x2)	Yes	Temperature (°C)	29.6
Bulk Density	Yes	Barometric Pressure (mm Hg)	762.5
Grain Size	Yes	Dissolved Oxygen (DO) (%)	35
Stable Isotopes/Metals	Yes	DO (mg/L)	2.32
Distance from GPS (m)	1	Specific Conductance (mS/cm)	38.3
Azimuth from GPS	E	Salinity	23.78
		pH (-)	6.62
		ORP (mV)	-113.70
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	

Notes

Low marsh sample, small tidal creek draining larger *Juncus* marsh.
Vegetation type: *Spartina alterniflora* (short)
Low marsh surface sample
Rain! Small tidal creek running from GB50S to Bayou Heron. This site was a definite low marsh setting. Flow was observed exiting the marsh.

Photos

Photo #: 1478-1480 (drainage)
1481-1484 (NESW)

Site ID	14CCT01-GB70G (Estuarine Grab, Duplicate of GB62G)		
Date	September 15, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)	10:05	Departure Time (CDT)	10:20
Latitude (DD)	30.36995	Longitude (DD)	-88.38802
Water Depth (m)	1.6		
Handheld GPS used	Garmin GPSMap 62stc	GPS Waypoint	076
YSI	Pro-Plus	Camera	Nikon AW100
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	**See GB62G**
GPS Session ID		Start Time (CDT)	10:06
Occupation Time (min)		Stop Time (CDT)	10:17
		Volume (gal)	5
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	Estuarine
Forams (preserved, x2)	Yes	Temperature (°C)	29.8
Bulk Density	Yes	Barometric Pressure (mm Hg)	766.3
Grain Size	Yes	Dissolved Oxygen (DO) (%)	75.6
Stable Isotopes/Metals	Yes	DO (mg/L)	4.92
Distance from GPS (m)		Specific Conductance (mS/cm)	42.22
Azimuth from GPS		Salinity	26.97
		pH (-)	7.95
		ORP (mV)	57.1
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Pentrometer		Recovery Depth (cm)	
Shear Strength (kg/cm^2)		Distance from GPS	
Vegetation Type		Azimuth from GPS	
4" OD Barrel Length (cm)			
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)		Number of Sections	
		Total Core Depth (cm)	
4" OD Compaction (cm)		Photo #s of Sediment Sections	
Recovered 4" OD Core Length (cm)		Distance from GPS	
Distance from GPS		Azimuth from GPS	
Azimuth from GPS			
(Fill in Surface/Grab section for surface samples taken at coring sites)			

Notes

Sites 62 and 70 are duplicates, only one radium sample collected
Fine sand. Estuarine grab located in the secondary (SE) portion of Middle Bay, leeward of the relict Grand Batture Island shoals.

Photos

Photo #: 1388-1392

Site ID	14CCT01-GB96S (Beach Sand)		
Date	September 17, 2014		
USGS Field Activity Number (FAN)	2014-323-FA (14CCT01)		
Field Crew	Chris Smith, Terry McCloskey, Scott Adams, Christian Haller		
Platform	USGS *RV Mako*		
Arrival Time (CDT)		Departure Time (CDT)	
Latitude (DD)	30.35072	Longitude (DD)	-88.39525
Water Depth (m)			
Handheld GPS used	approximate location	GPS Waypoint	no waypoint taken
YSI		Camera	
Sample Type/Sample Info		**Sample Type/Sample Info**	
DGPS Positioning		***Radium Water Sampling: Mn Fiber***	
GPS Session ID		Start Time (CDT)	
Occupation Time (min)		Stop Time (CDT)	
		Volume	
Surface/Grab: USGS Petit PONAR (Grab)		***Water Quality Parameters: YSI***	
Vegetation Type		Water Type (Marsh, Estuarine)	
Forams (preserved, x2)		Temperature (°C)	
Bulk Density		Barometric Pressure (mm Hg)	
Grain Size		Dissolved Oxygen (DO) (%)	
Stable Isotopes/Metals		DO (mg/L)	
Distance from GPS (m)		Specific Conductance (mS/cm)	
Azimuth from GPS		Salinity	
		pH (-)	
		ORP (mV)	
Marsh Push Core: 4" Polycarbonate Barrels		***Shovel (Dig) Core: AMS Sharpshooter Shovel***	
Vegetation Type		Recovery Depth (cm)	
4" OD Barrel Length (cm)		Distance from GPS	
In-the-Ground Inside Depth to Surface (ITGIDS) (cm)		Azimuth from GPS	
In-the-Ground Outside Depth to Surface (ITGODS) (cm)			
		Marsh Auger Core: USGS Eijkelkamp Peat Sampler	
4" OD Compaction (cm)		Number of Sections	
Recovered 4" OD Core Length (cm)		Total Core Depth (cm)	
Distance from GPS		Photo #s of Sediment Sections	
Azimuth from GPS		Distance from GPS	
		Azimuth from GPS	
Notes			
Sand sample taken on beach along North Rigelot Island / Grand Batture berm western GB transect			
Photos			