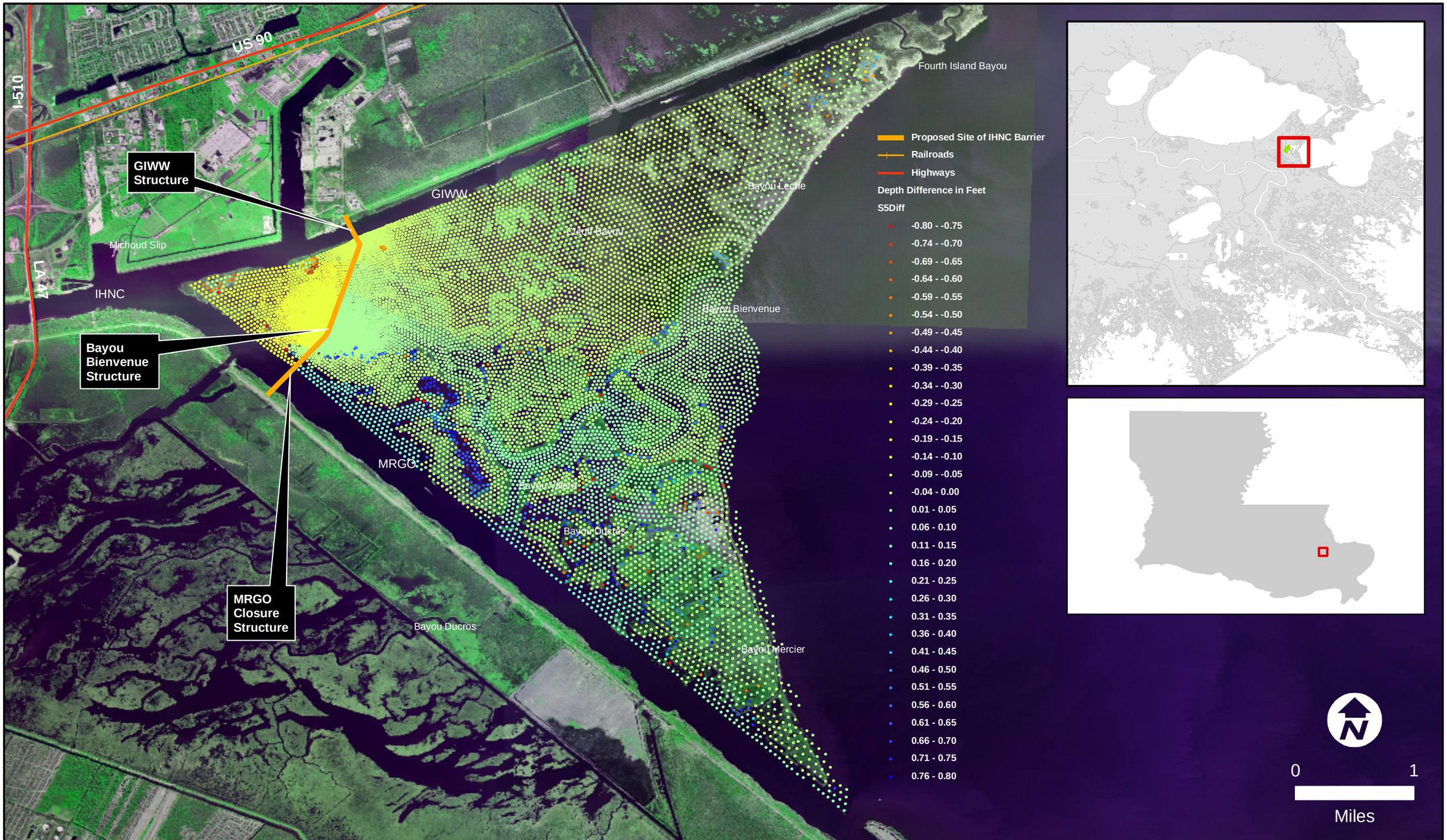


copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS Infrastructure, environment, facilities

Bioengineering GROUP

HNTB

IHNC Hydroperiod Modeling

DRAWN JEC	DATE 6/9/2006	PROJECT MANAGER FRC	DEPARTMENT MANAGER FRC
Tidal Inundation Depth Difference Scenario 5 vs. Scenario 2 Base Conditions		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 32

copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS Infrastructure, environment, facilities

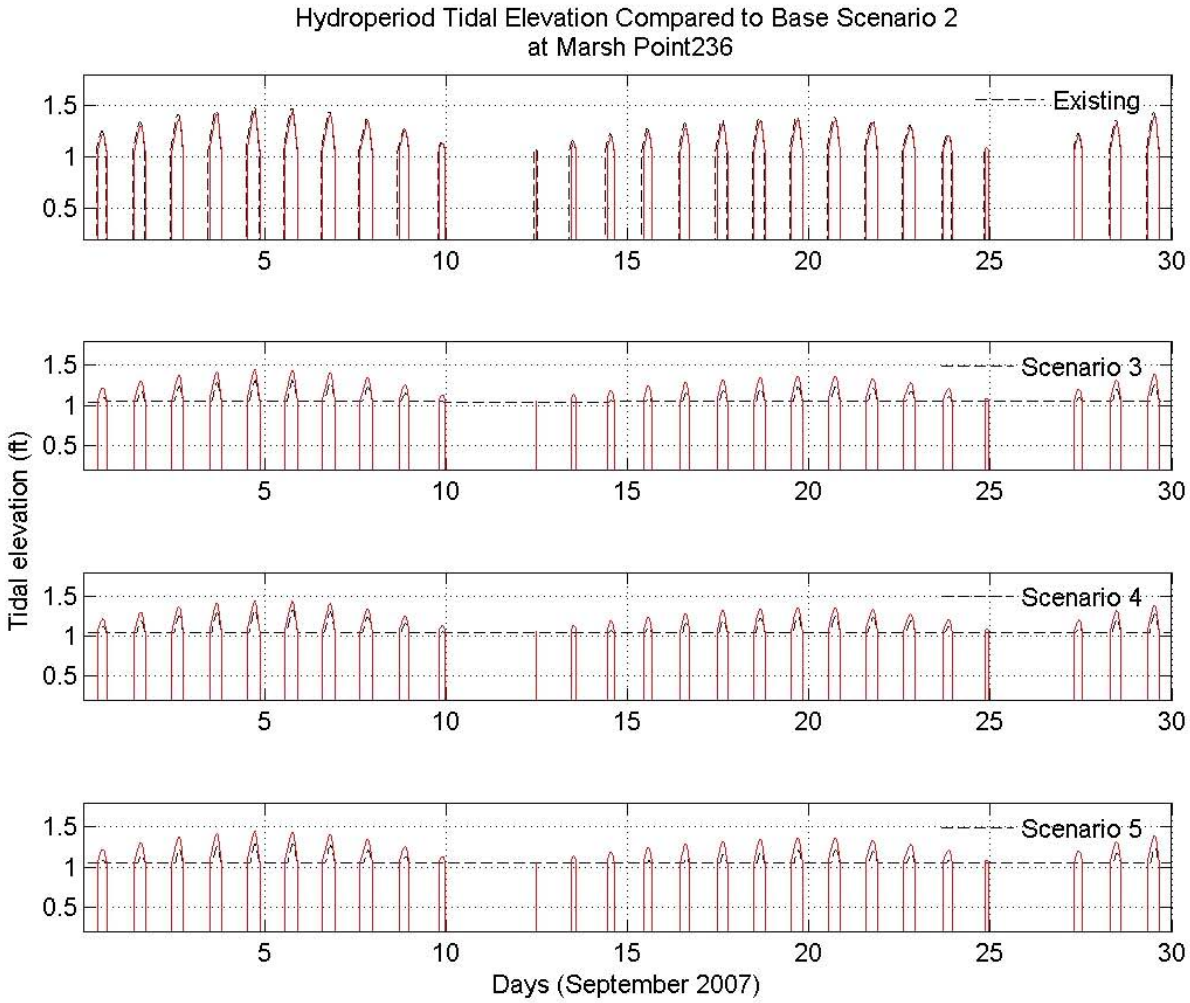
Bioengineering GROUP

HNTB

IHNC Hydroperiod Modeling

Hydrograph Output Points

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
JEC	6/9/2006	FRC	FRC
		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 33



G:\APROJECT\USACE\NL990042.0000\Figures\9942-Modeling-34.dwg

US Army Corps of Engineers ®
New Orleans District

Building Sustainable Communities on an Ecological Foundation
Bioengineering GROUP

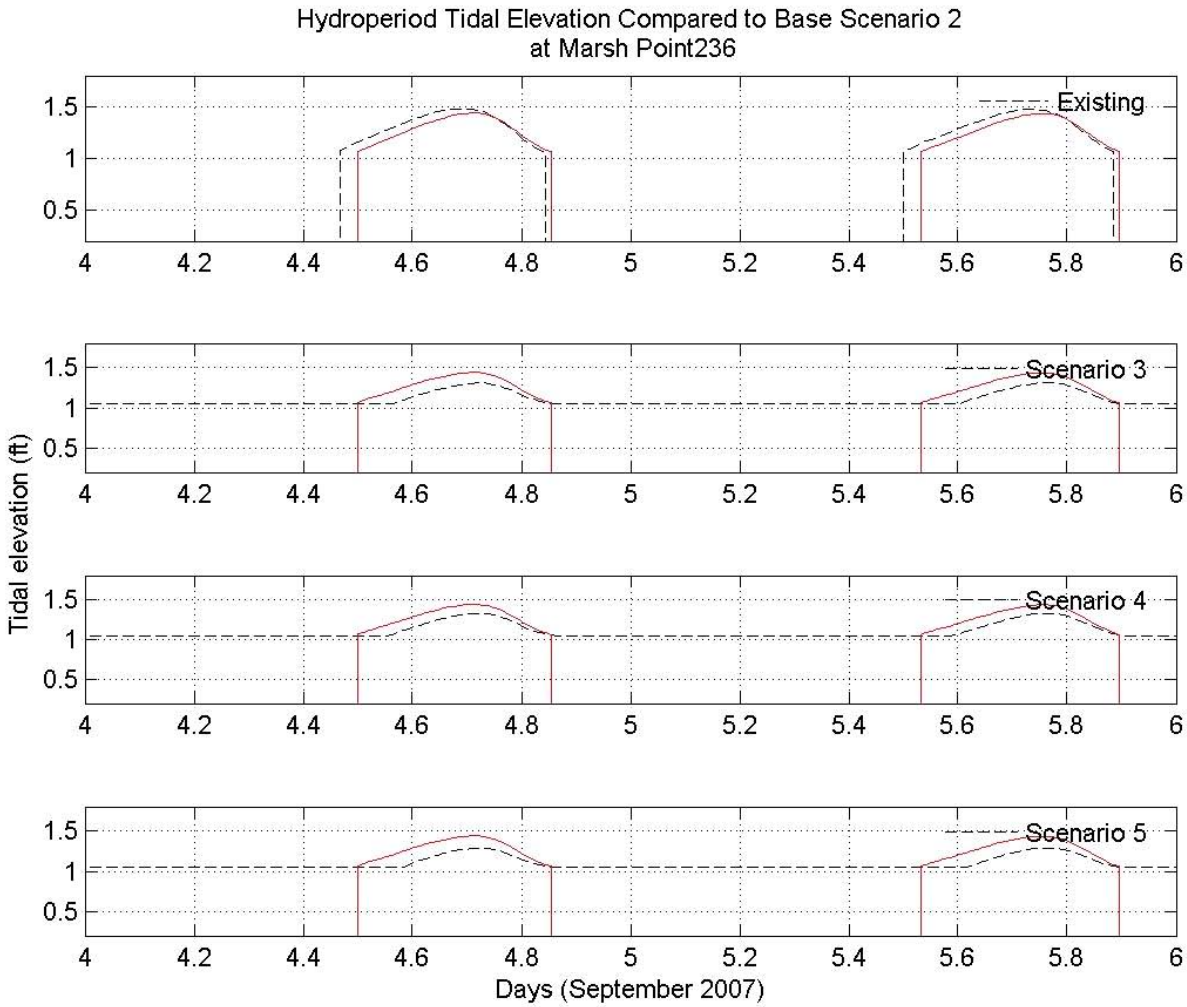
HNTB

US Army Corps of Engineers
New Orleans District
Hydroperiod Modeling Study

Time series of tidal elevations for Scenario 2 compared to the other four scenarios. Scenario 2 is the solid red line in all plots. Point 236 is located west of the proposed barrier, near the GIWW. Exact locations can be found on Figure 33.

ARCADIS

FIGURE
34



G:\APROJECT\USACE\NL990042.0000\Figures\9942-Modeling-35.dwg

US Army Corps of Engineers ®
New Orleans District

Building Sustainable Communities on an Ecological Foundation
Bioengineering GROUP

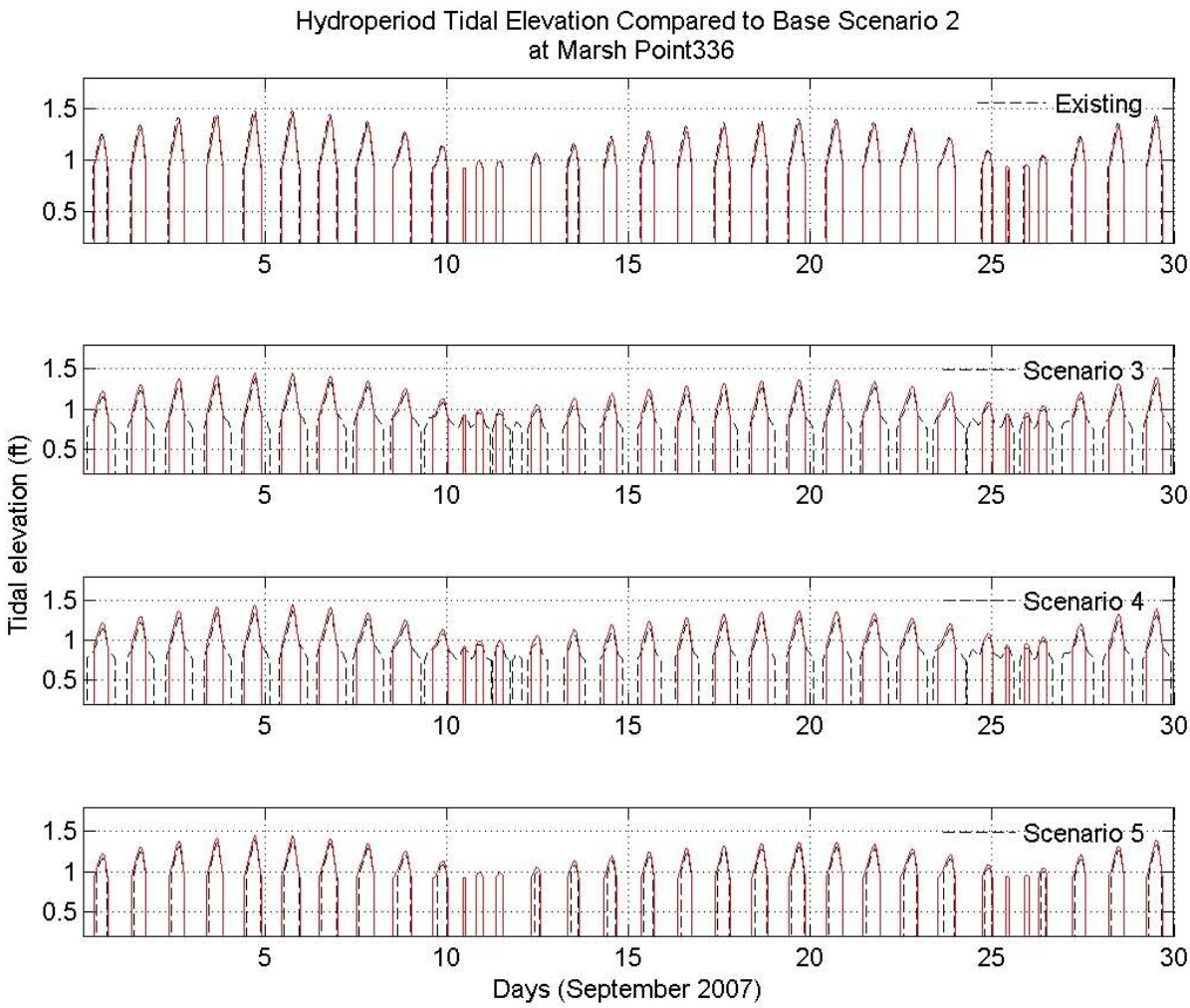
HNTB

US Army Corps of Engineers
New Orleans District
Hydroperiod Modeling Study

Time series of tidal elevations for Scenario 2 compared to the other four scenarios. Scenario 2 is the solid red line in all plots. Point 236 is located west of the proposed barrier, near the GIWW. Exact locations can be found on Figure 33.

ARCADIS

FIGURE
35



G:\APROJECT\USACE\NL990042.0000\Figures\9942-Modeling-36.dwg

US Army Corps of Engineers ®
New Orleans District

Building Sustainable Communities on an Ecological Foundation
Bioengineering GROUP

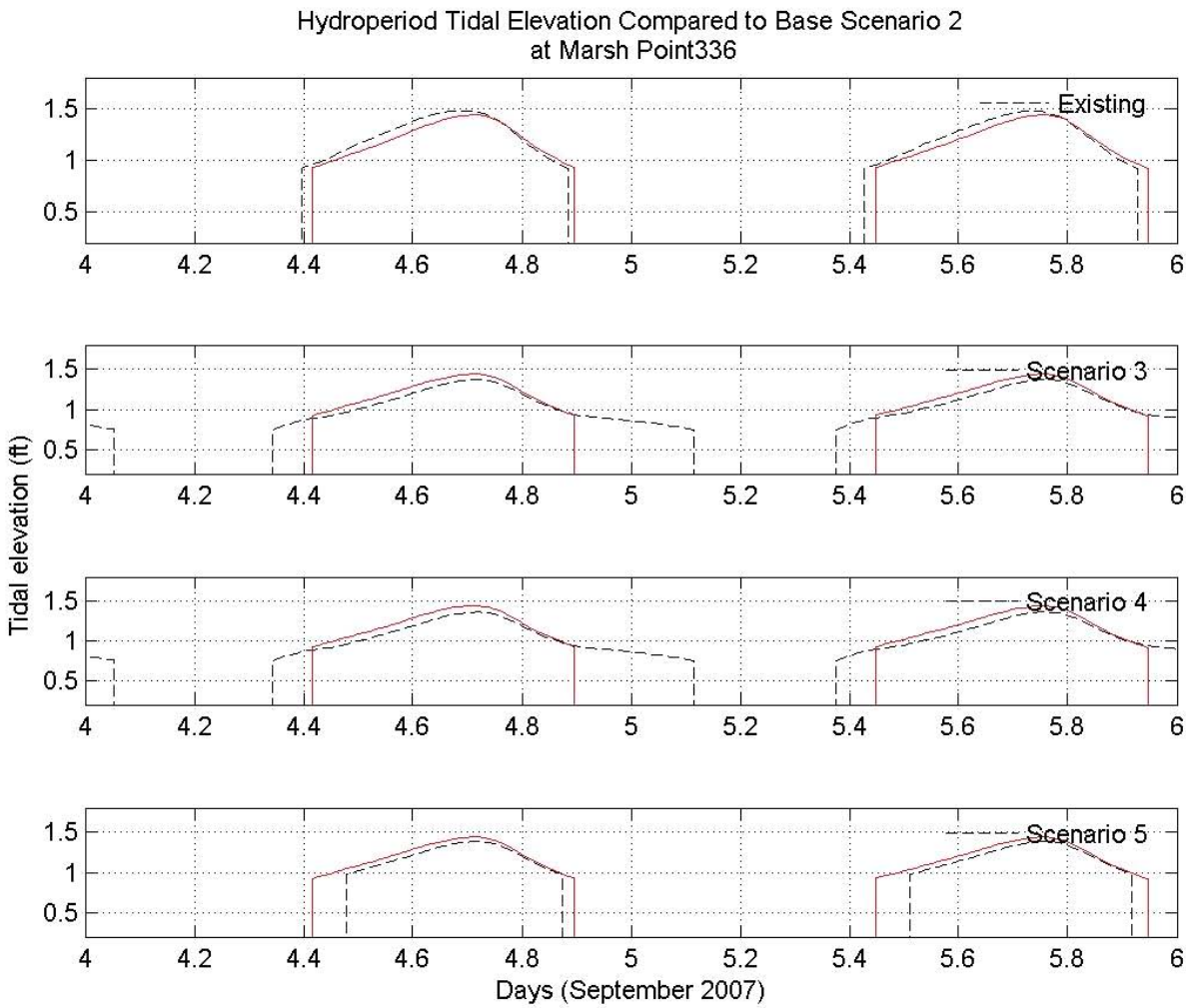
HNTB

US Army Corps of Engineers
New Orleans District
Hydroperiod Modeling Study

Time series of tidal elevations for Scenario 2 compared to the other four scenarios. Scenario 2 is the solid red line in all plots. Point 336 is located east of the proposed barrier, near the GIWW. Exact locations can be found on Figure 33.

ARCADIS

FIGURE
36



G:\APROJECT\USACE\NL990042.0000\Figures\9942-Modeling-37.dwg

US Army Corps of Engineers ®
New Orleans District

Building Sustainable Communities on an Ecological Foundation
Bioengineering GROUP

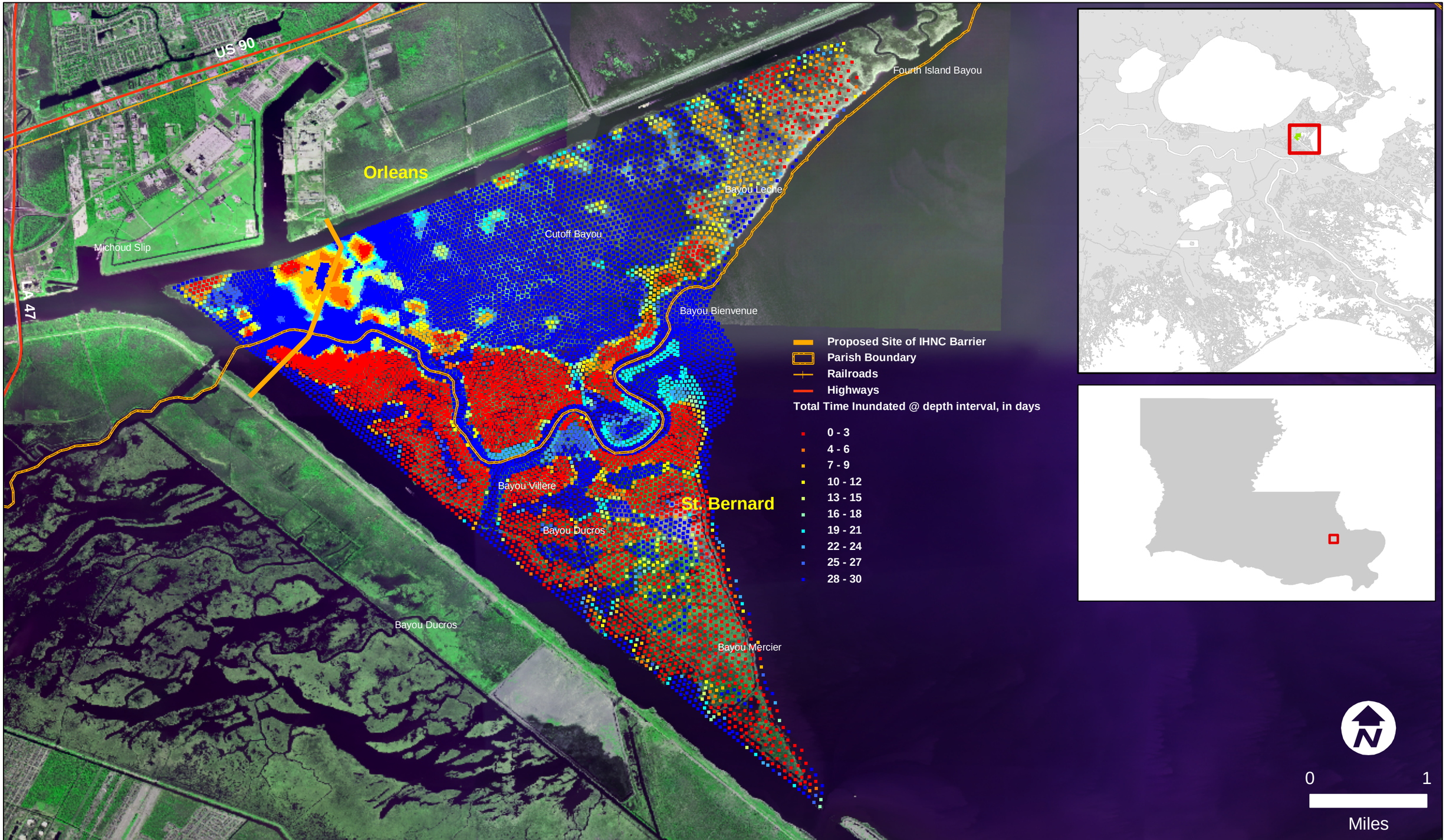
HNTB

US Army Corps of Engineers
New Orleans District
Hydroperiod Modeling Study

Time series of tidal elevations for Scenario 2 compared to the other four scenarios. Scenario 2 is the solid red line in all plots. Point 336 is located east of the proposed barrier, near the GIWW. Exact locations can be found on Figure 33.

ARCADIS

FIGURE
37



copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

NO.	DATE	REVISION DESCRIPTION	BY / CKD

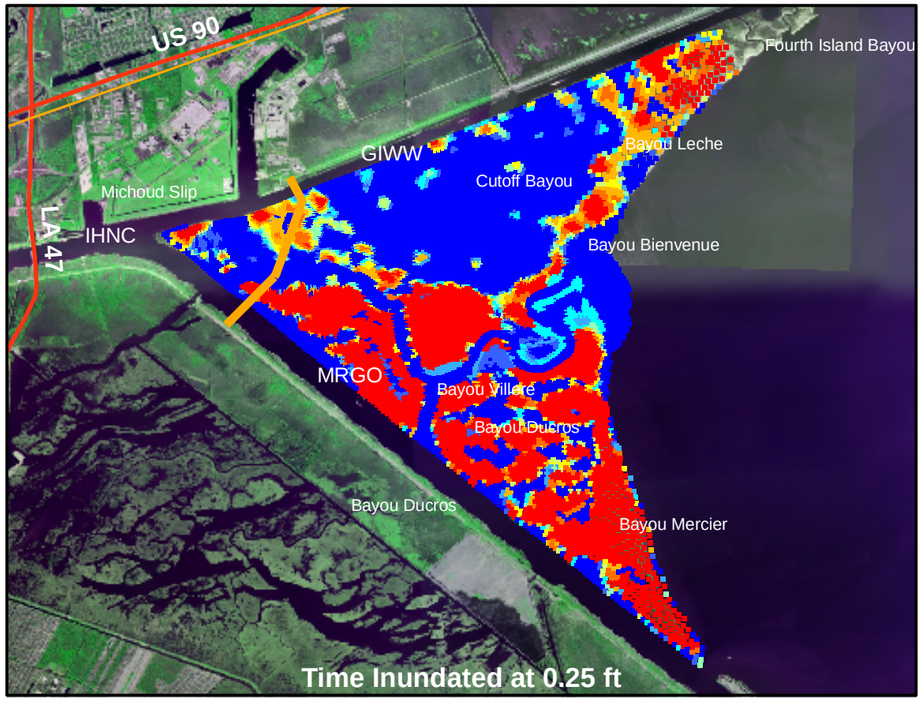
ARCADIS Infrastructure, environment, facilities

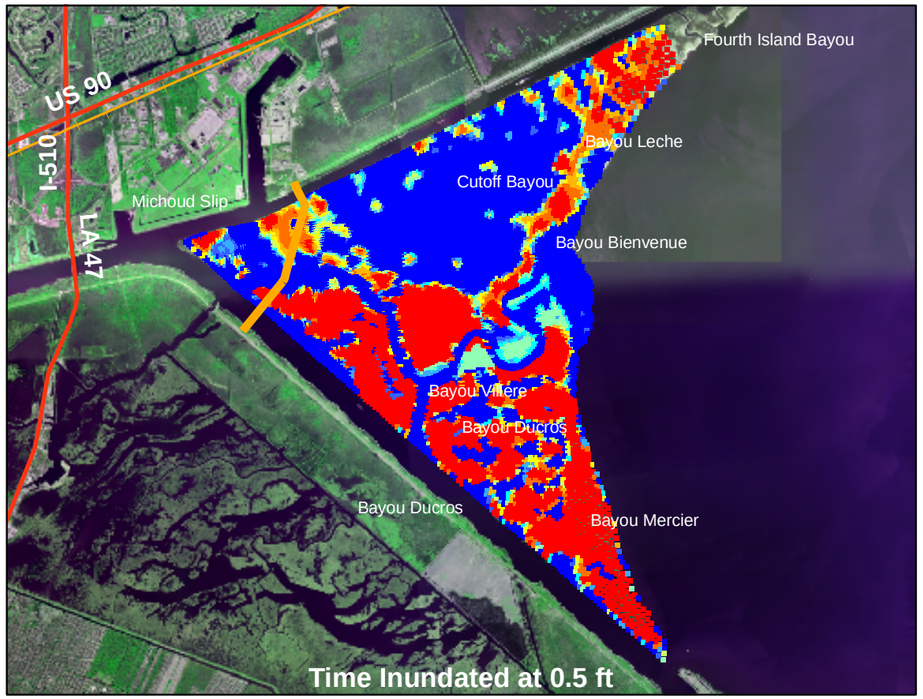
Bioengineering GROUP

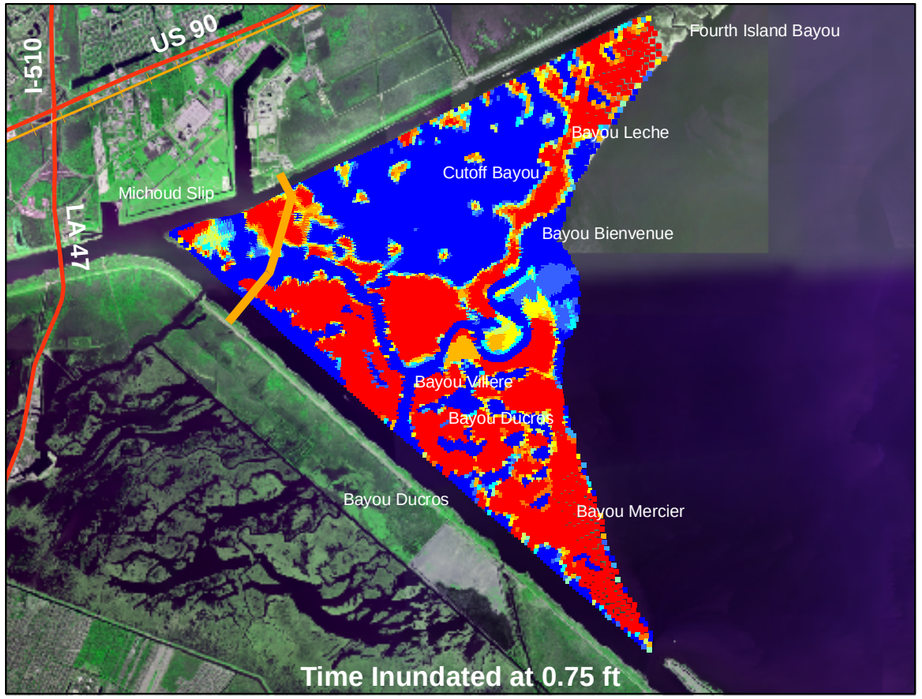
HNTB

IHNC Hydroperiod Modeling

DRAWN JEC	DATE 6/9/2006	PROJECT MANAGER FRC	DEPARTMENT MANAGER FRC
Tidal Inundation Duration Scenario 1 - Existing Conditions		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 38

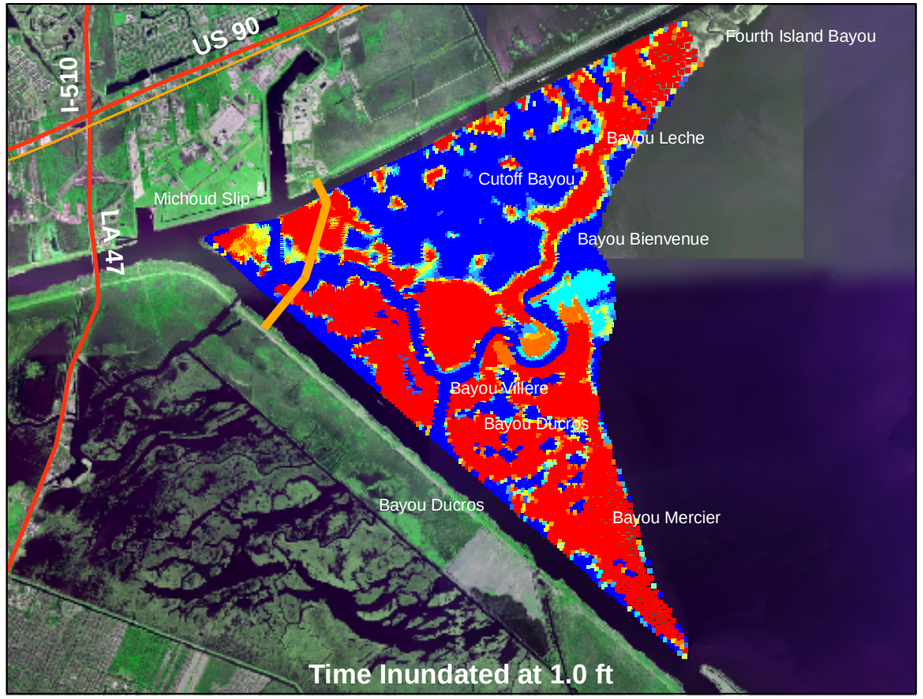






Total Time Inundated @ depth interval, in days

- 0 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 15
- 16 - 18
- 19 - 21
- 22 - 24
- 25 - 27
- 28 - 30
- Proposed Site of IHNC Barrier
- Railroads
- Highways



copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

0 2
Miles

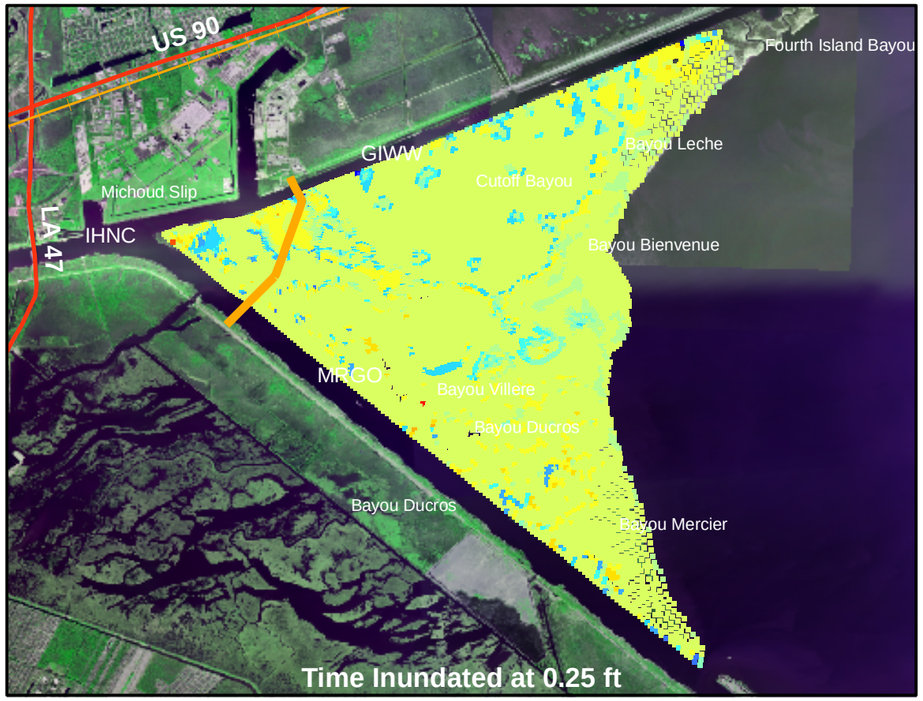
NO.	DATE	REVISION DESCRIPTION	BY / CKD

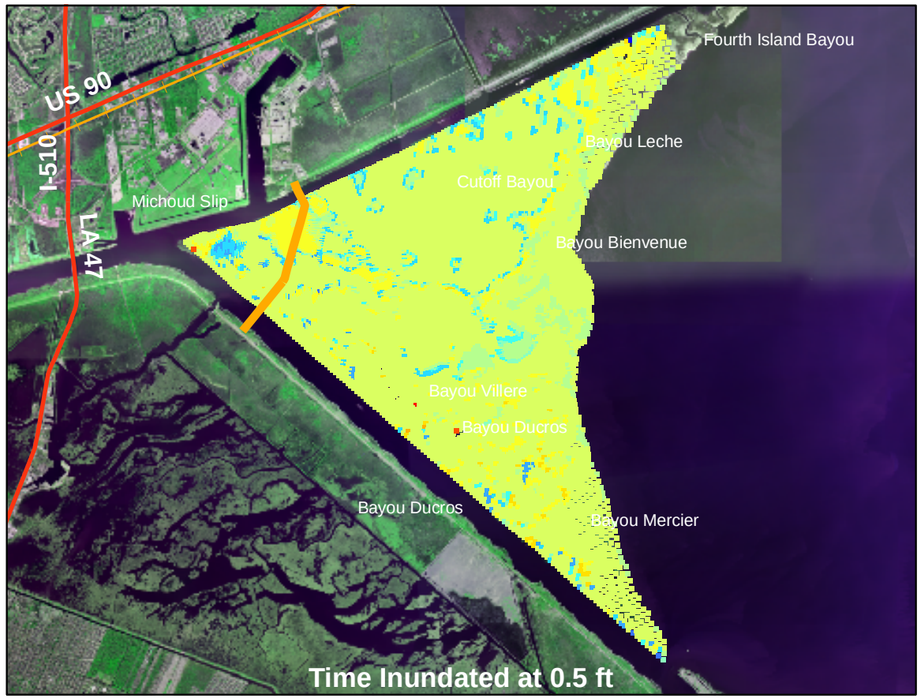
ARCADIS Infrastructure, environment, facilities
Bioengineering GROUP
HNTB

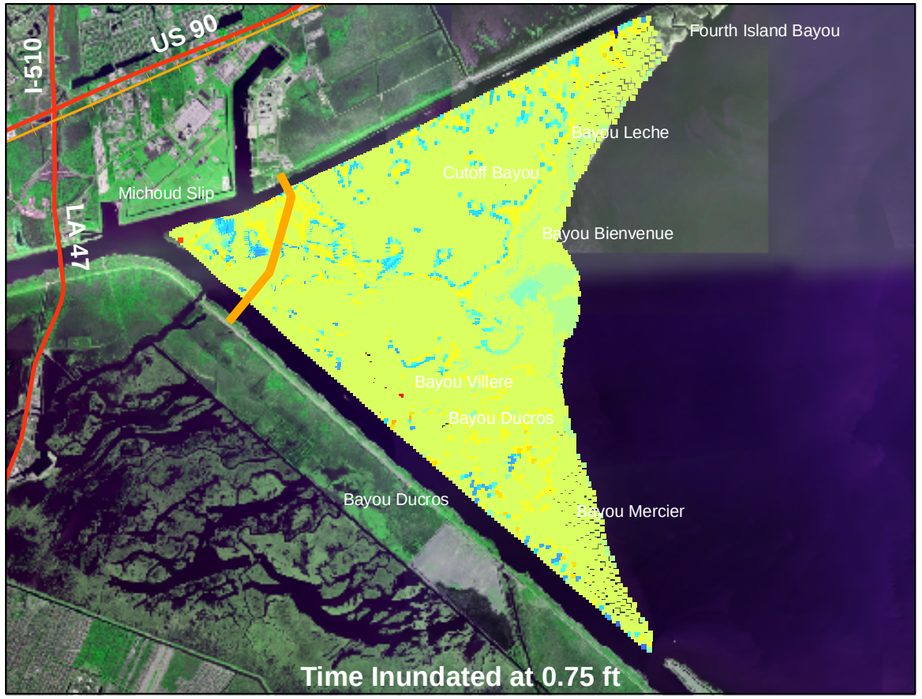
IHNC Hydroperiod Modeling

Tidal Inundation Duration
Scenario 1 - Existing Conditions

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
JEC	6/9/2006	FRC	FRC
		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 39







Inundation Time Difference, days

- -3.4 - -3.0
- -2.9 - -2.5
- -2.4 - -2.0
- -1.9 - -1.5
- -1.4 - -1.0
- -0.9 - -0.5
- -0.4 - 0.0
- 0.1 - 0.5
- 0.6 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- **Proposed Site of IHNC Barrier**
- **Railroads**
- **Highways**

copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

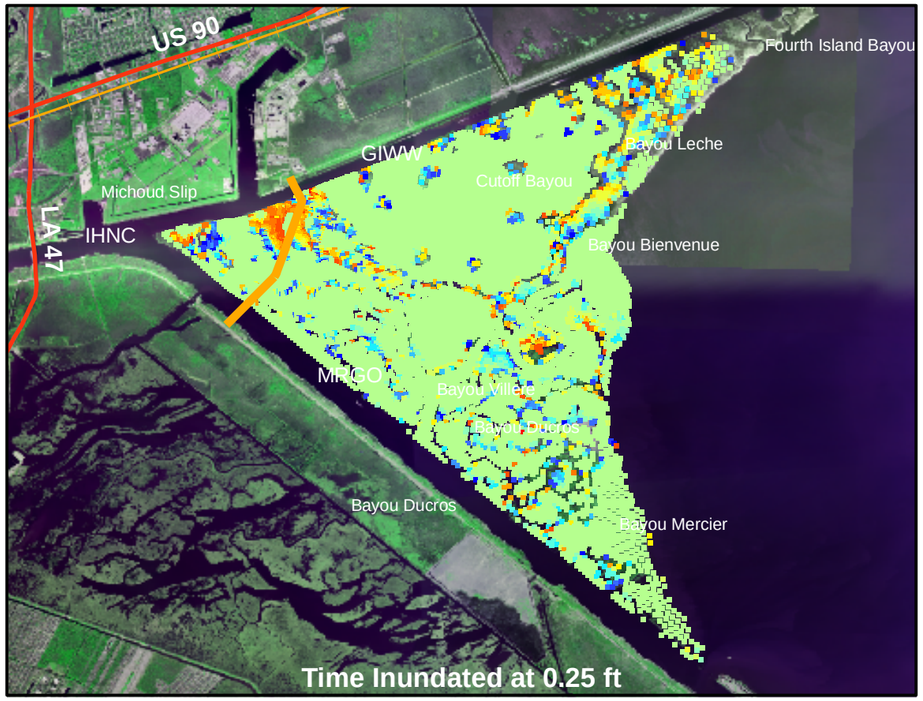
0 2
Miles

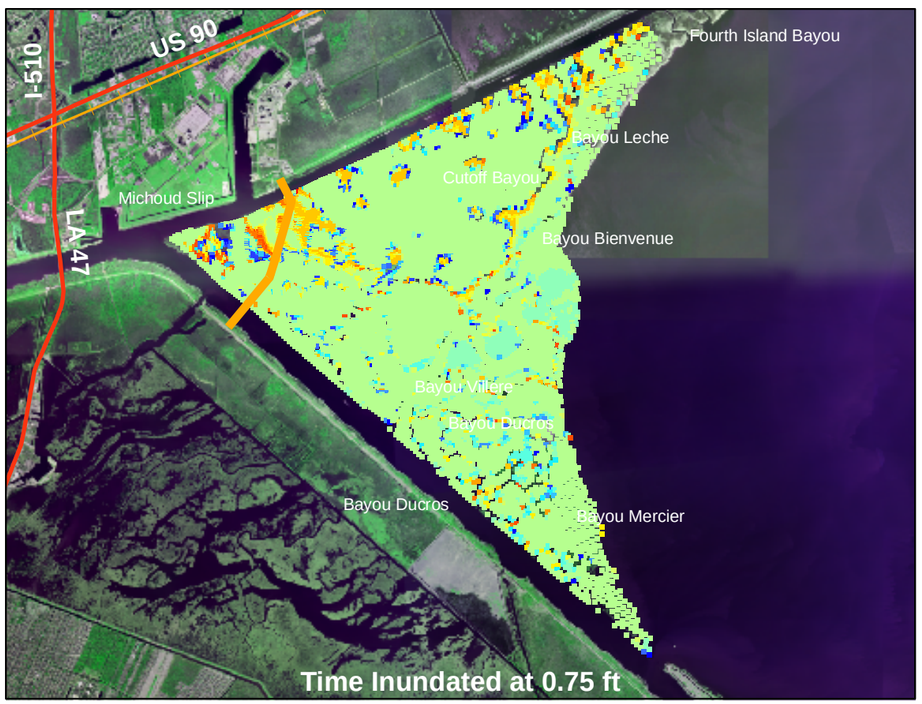
NO.	DATE	REVISION DESCRIPTION	BY CKD

ARCADIS Infrastructure, environment, facilities
Bioengineering GROUP
HNTB

IHNC Hydroperiod Modeling

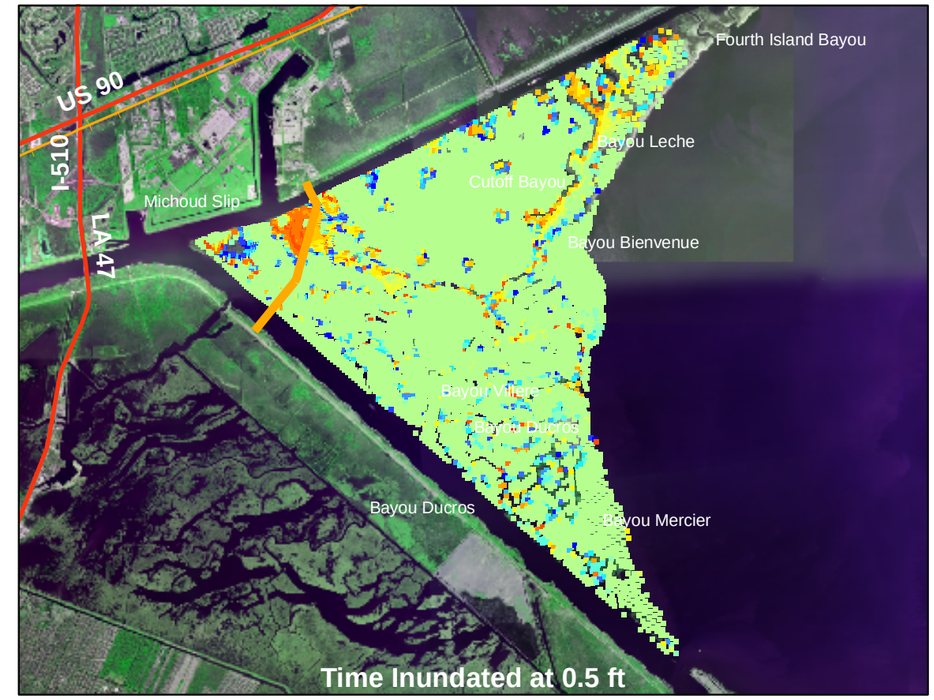
DRAWN JEC	DATE 6/9/2006	PROJECT MANAGER FRC	DEPARTMENT MANAGER FRC
Tidal Inundation Duration Scenario 2 vs. Scenario 1 - Existing Conditions		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 40

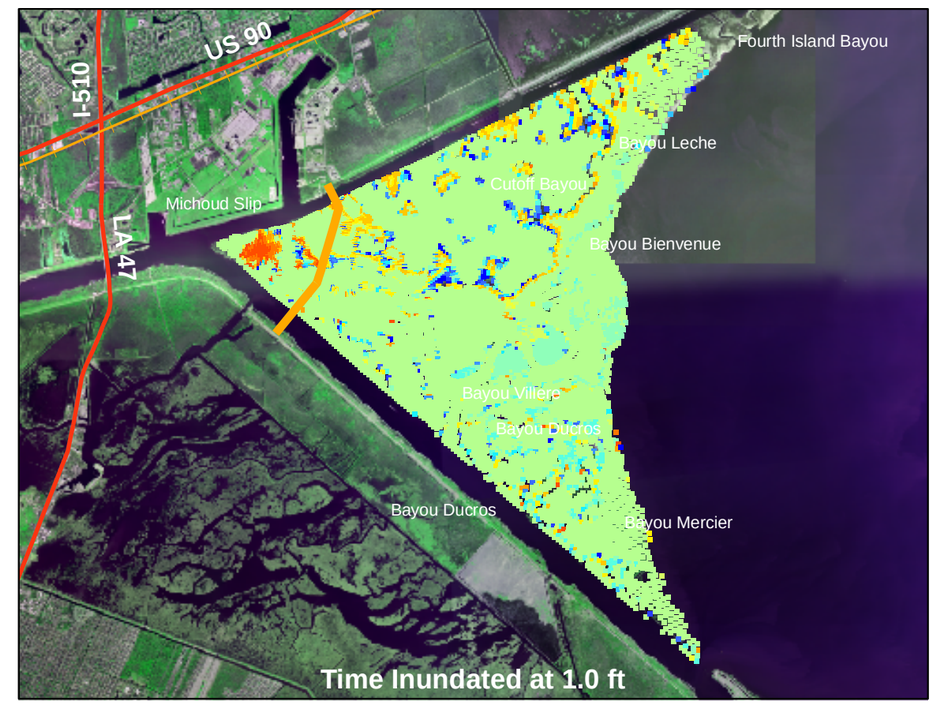




Inundation Time Difference, days

- -4.0
- -3.9 - -3.5
- -3.4 - -3.0
- -2.9 - -2.5
- -2.4 - -2.0
- -1.9 - -1.5
- -1.4 - -1.0
- -0.9 - -0.5
- -0.4 - 0.0
- 0.1 - 0.5
- 0.6 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- **Proposed Site of IHNC Barrier**
- **Railroads**
- **Highways**





copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

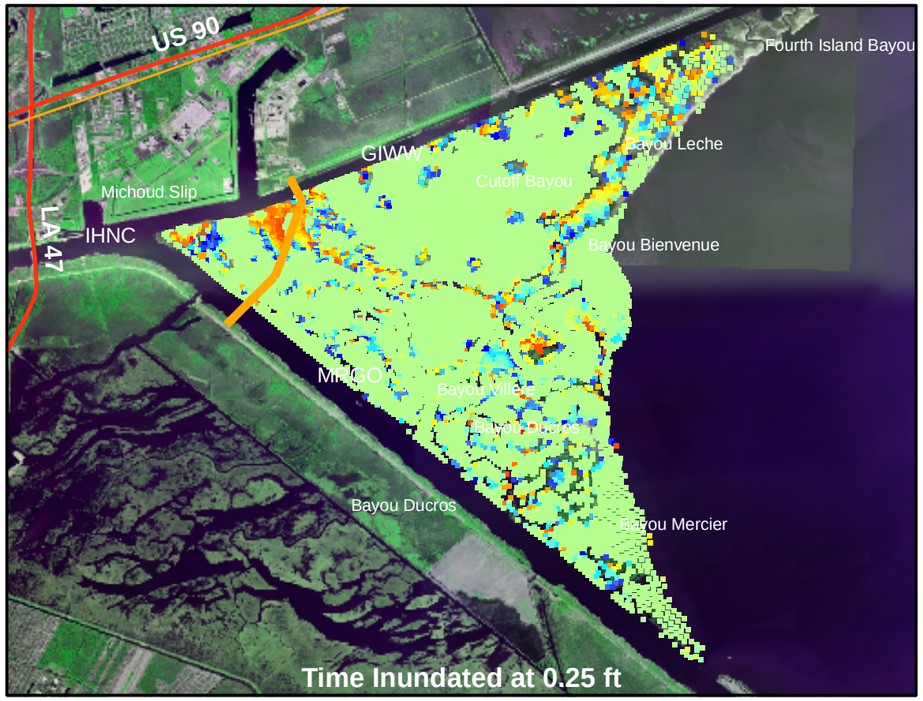
0 2
Miles

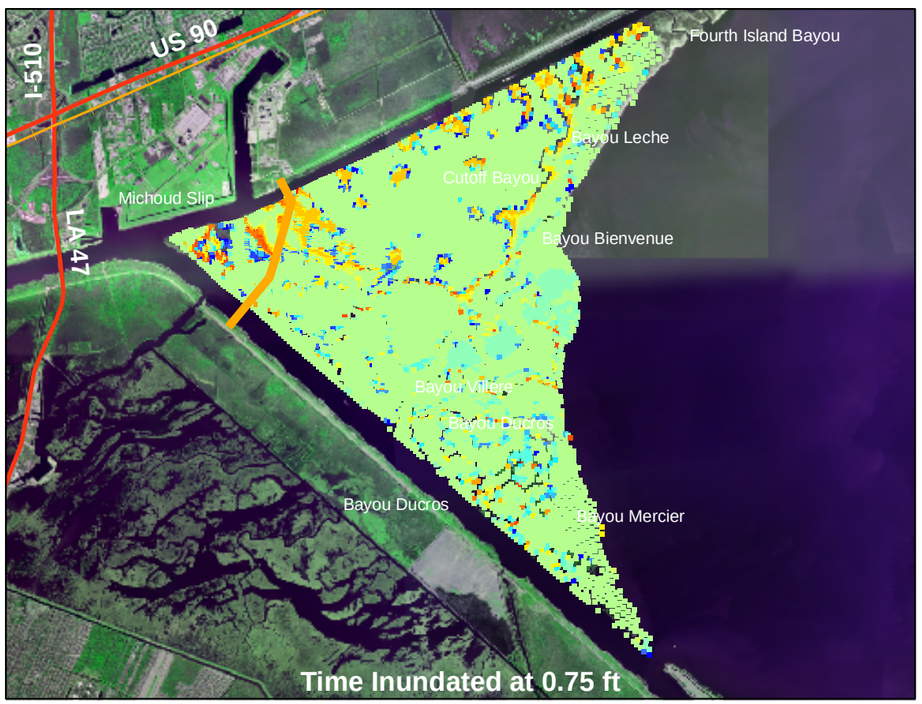
NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS Infrastructure, environment, facilities
Bioengineering GROUP
HNTB

IHNC Hydroperiod Modeling

DRAWN JEC	DATE 6/9/2006	PROJECT MANAGER FRC	DEPARTMENT MANAGER FRC
Tidal Inundation Duration Scenario 3 vs. Scenario 2		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 41





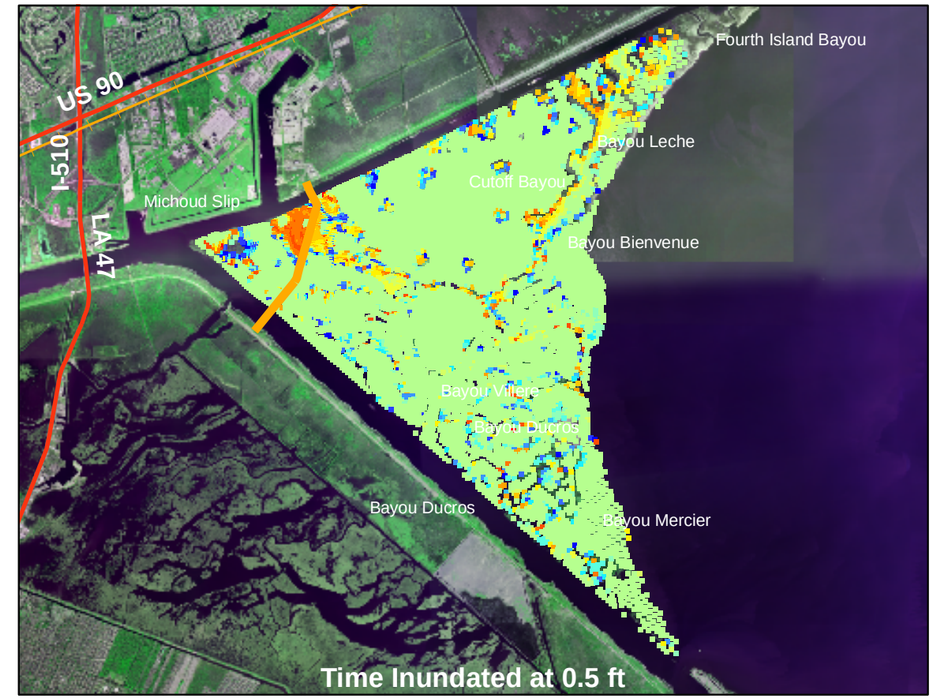
Inundation Time Difference, days

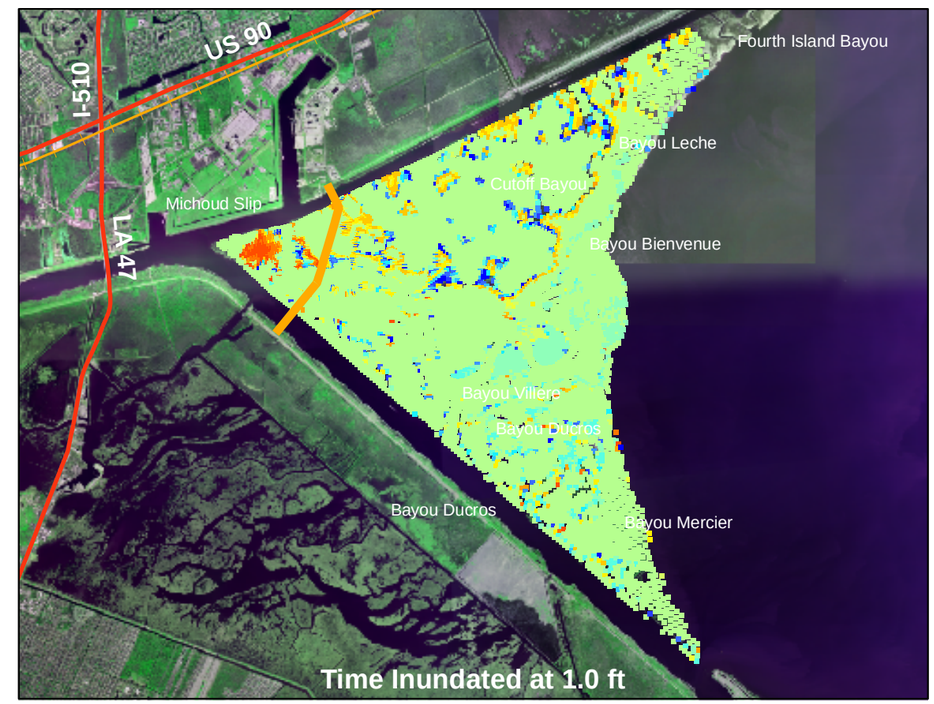
- -4.0
- -3.9 - -3.5
- -3.4 - -3.0
- -2.9 - -2.5
- -2.4 - -2.0
- -1.9 - -1.5
- -1.4 - -1.0
- -0.9 - -0.5
- -0.4 - 0.0
- 0.1 - 0.5
- 0.6 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0

Proposed Site of IHNC Barrier

Railroads

Highways





copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

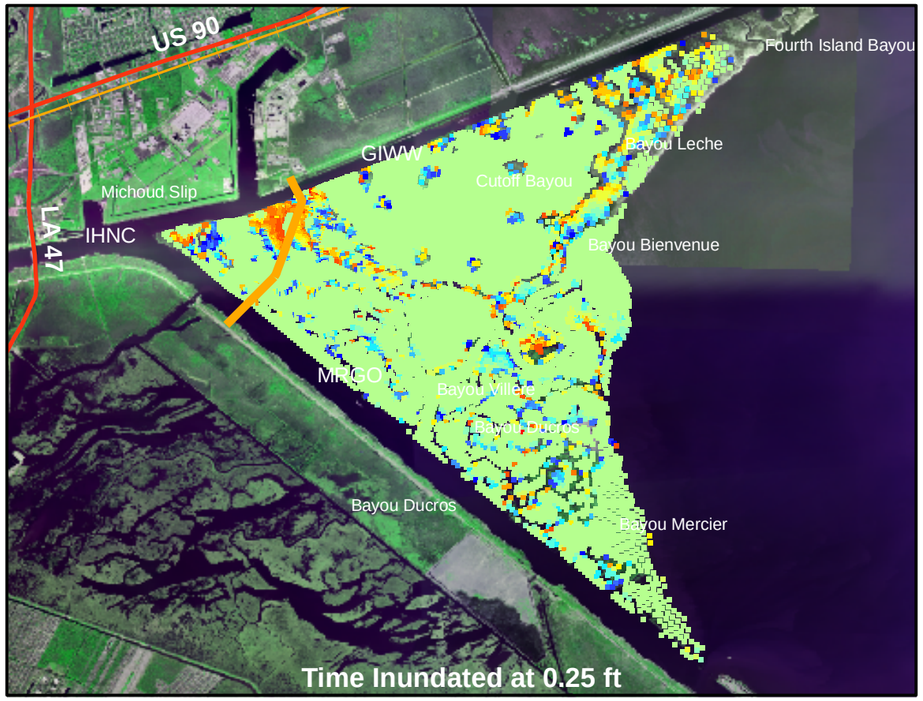
0 2
Miles

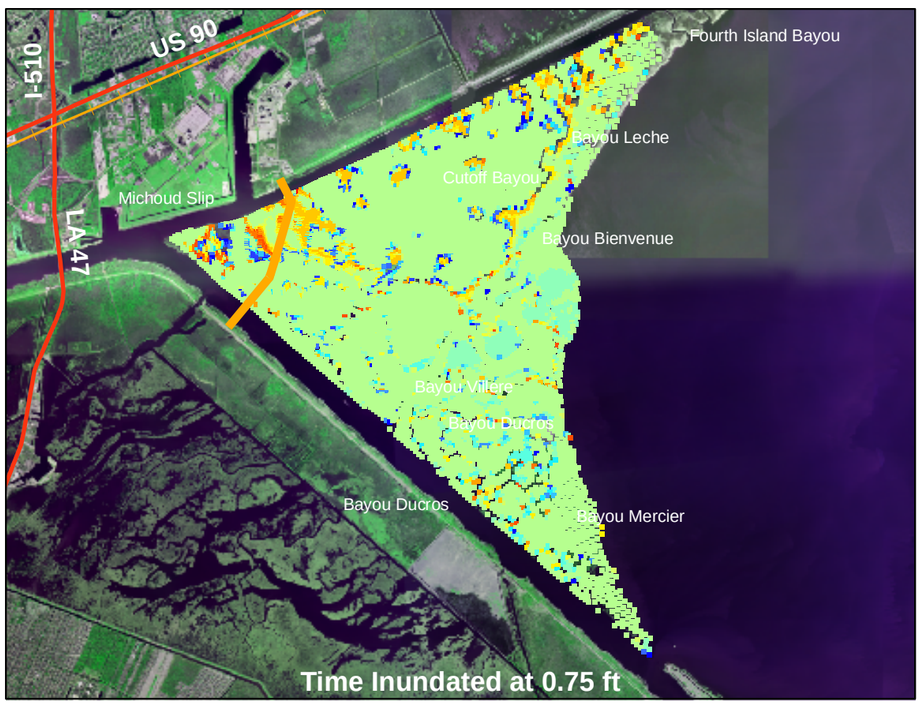
NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS Infrastructure, environment, facilities
Bioengineering GROUP
HNTB

IHNC Hydroperiod Modeling

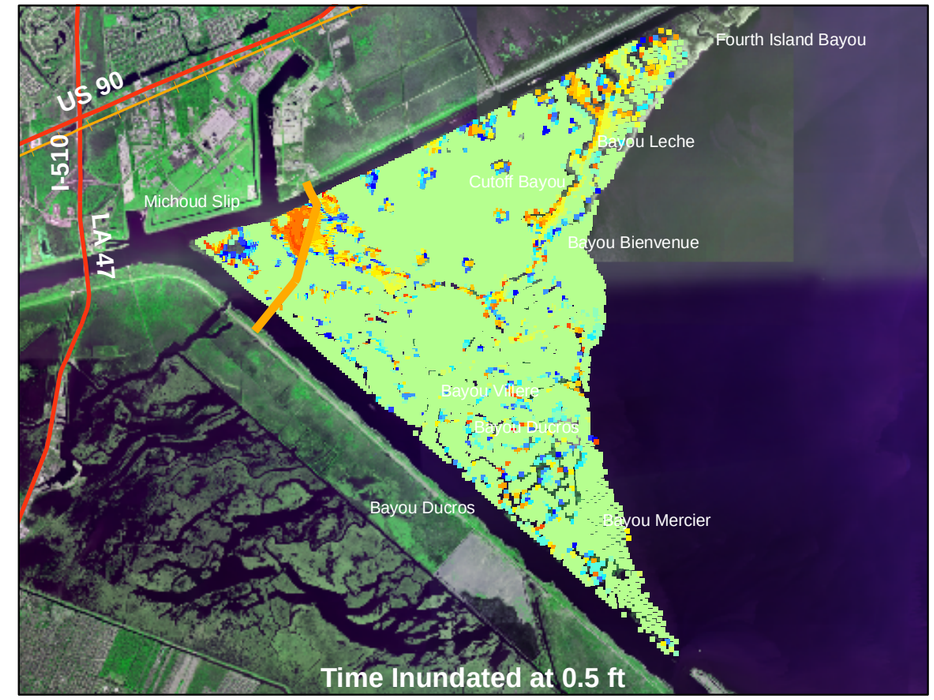
DRAWN JEC	DATE 6/9/2006	PROJECT MANAGER FRC	DEPARTMENT MANAGER FRC
Tidal Inundation Duration Scenario 4 vs. Scenario 2		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 42

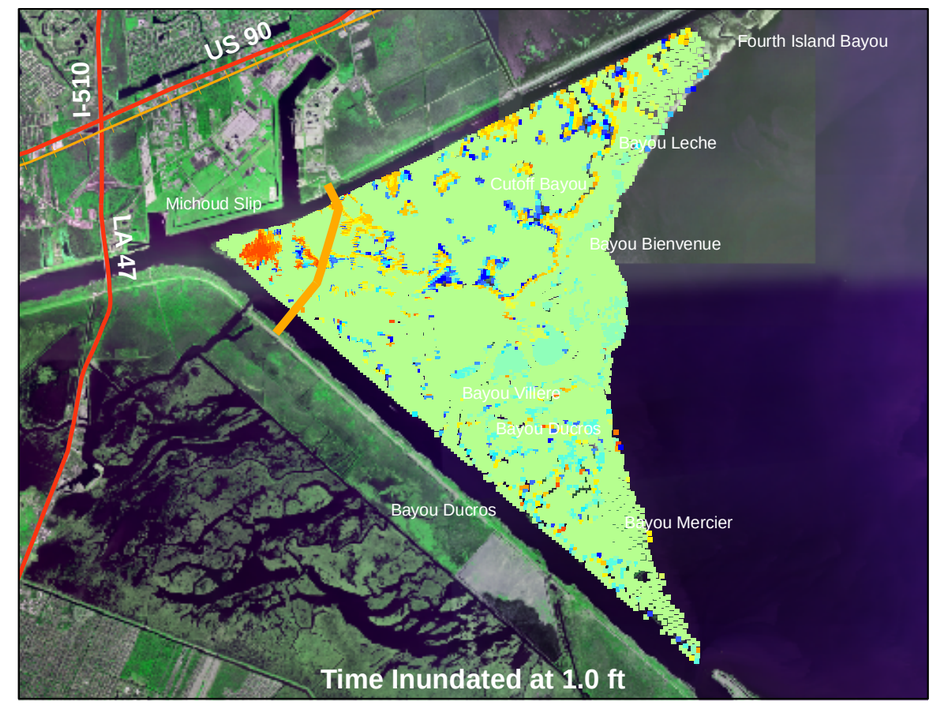




Inundation Time Difference, days

- -4.0
- -3.9 - -3.5
- -3.4 - -3.0
- -2.9 - -2.5
- -2.4 - -2.0
- -1.9 - -1.5
- -1.4 - -1.0
- -0.9 - -0.5
- -0.4 - 0.0
- 0.1 - 0.5
- 0.6 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- **Proposed Site of IHNC Barrier**
- **Railroads**
- **Highways**





copyright © 2008

Landsat Thematic Mapper Satellite Image 2005, UTM Zone 15 NAD83, LOSCO (2007). Using bands 5-7-3 as an RGB composite.

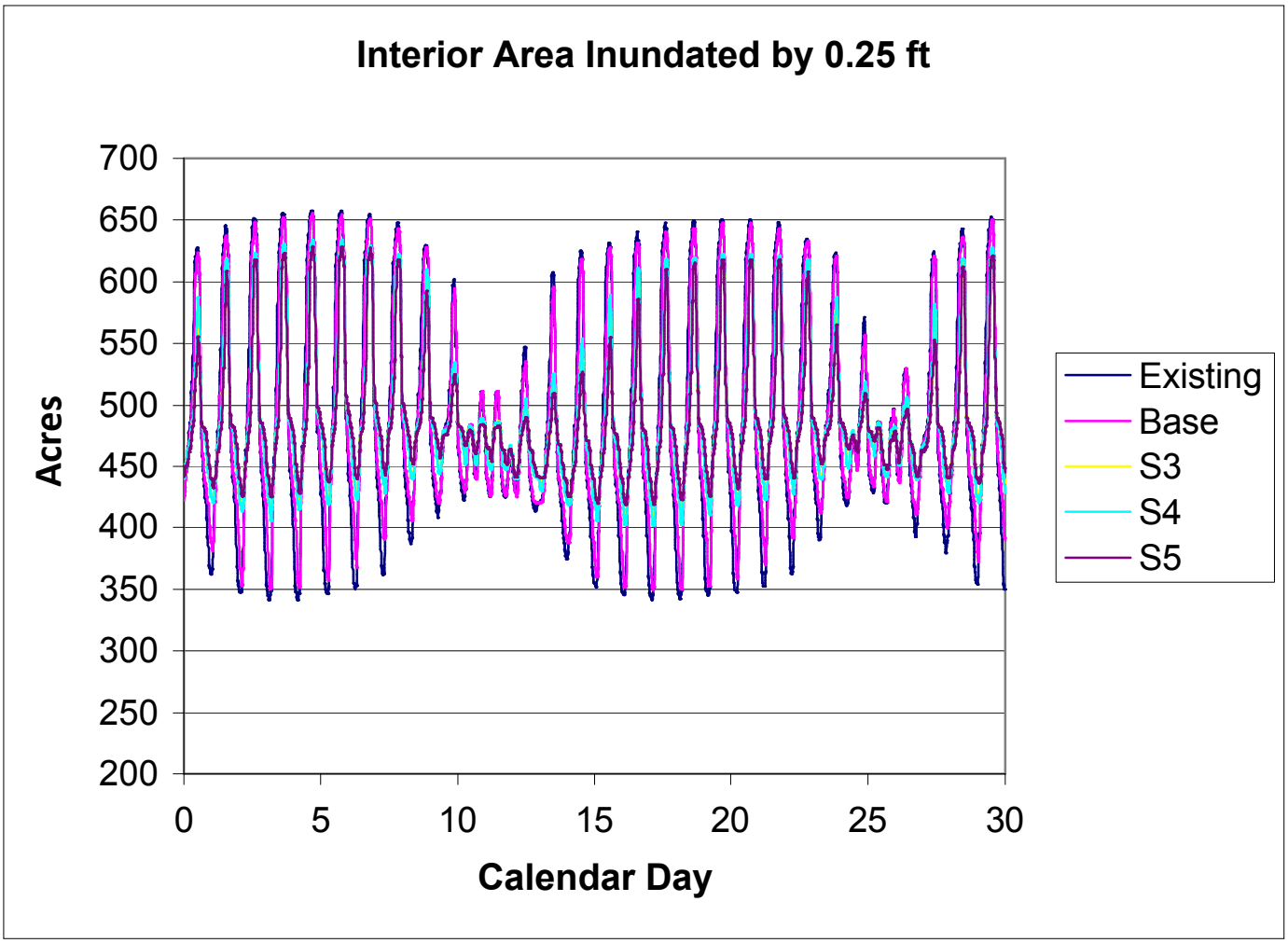
0 2
Miles

NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS Infrastructure, environment, facilities
Bioengineering GROUP
HNTB

IHNC Hydroperiod Modeling

DRAWN JEC	DATE 6/9/2006	PROJECT MANAGER FRC	DEPARTMENT MANAGER FRC
Tidal Inundation Duration Scenario 5 vs. Scenario 2		SCALE AS SHOWN	CHECKED FRC
		PROJECT NUMBER	FIGURE NUMBER 43



G:\APROJECT\USACE\NL990042.0000\Figures\9942-Modeling-44.dwg

US Army Corps of Engineers ®
New Orleans District

Building Sustainable Communities on an Ecological Foundation
Bioengineering GROUP

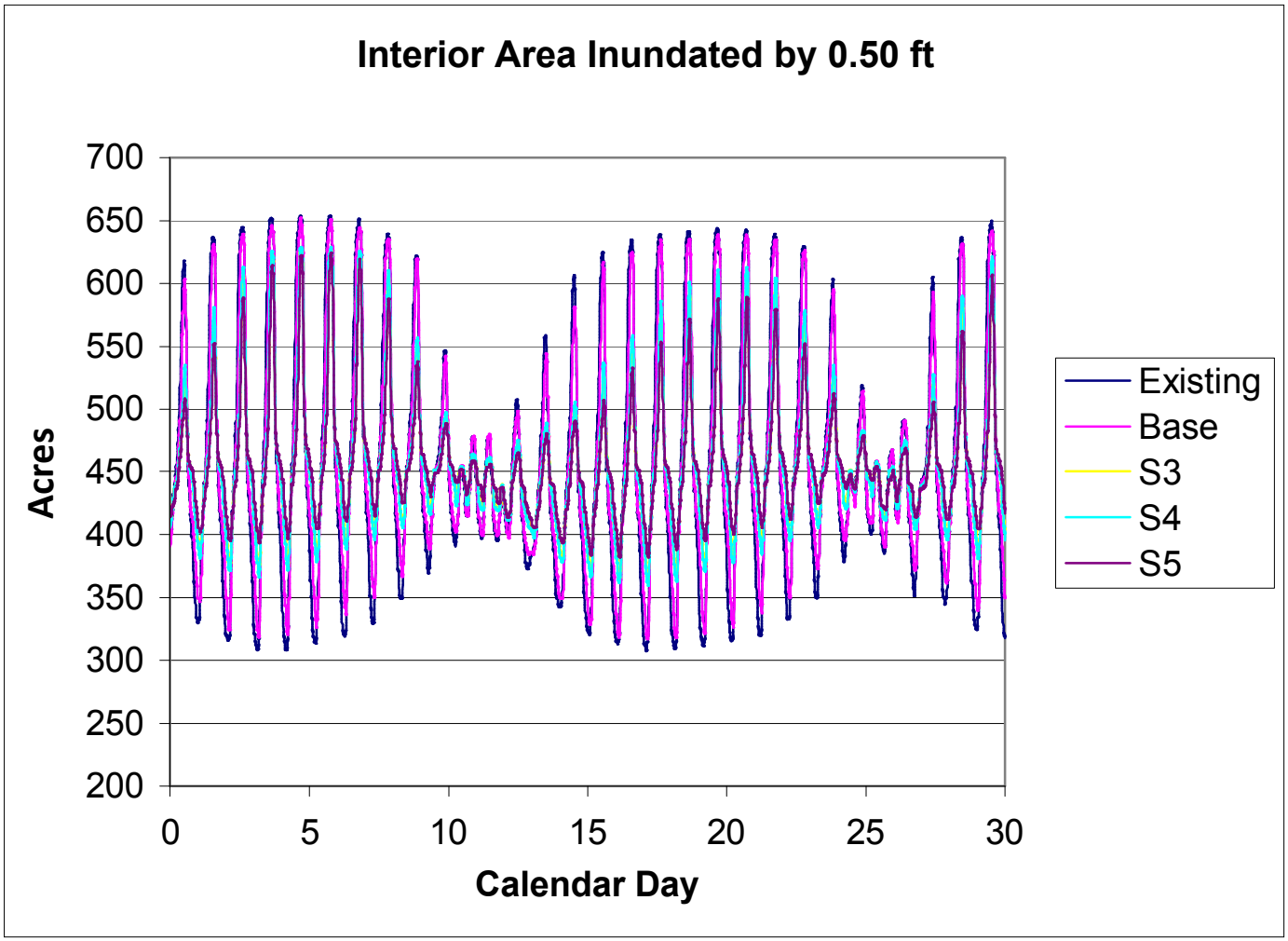
HNTB

US Army Corps of Engineers
New Orleans District
Hydroperiod Modeling Study

Interior Inundation by at least 0.25 foot

ARCADIS

FIGURE
44



G:\APROJECT\USACE\NL990042.0000\Figures\9942-Modeling-45.dwg

US Army Corps of Engineers ®
New Orleans District

Building Sustainable Communities on an Ecological Foundation
Bioengineering GROUP

HNTB

US Army Corps of Engineers
New Orleans District
Hydroperiod Modeling Study

Interior Inundation by at least 0.50 foot

ARCADIS

FIGURE
45