AMERICA'S UNDERWATER TREASURES

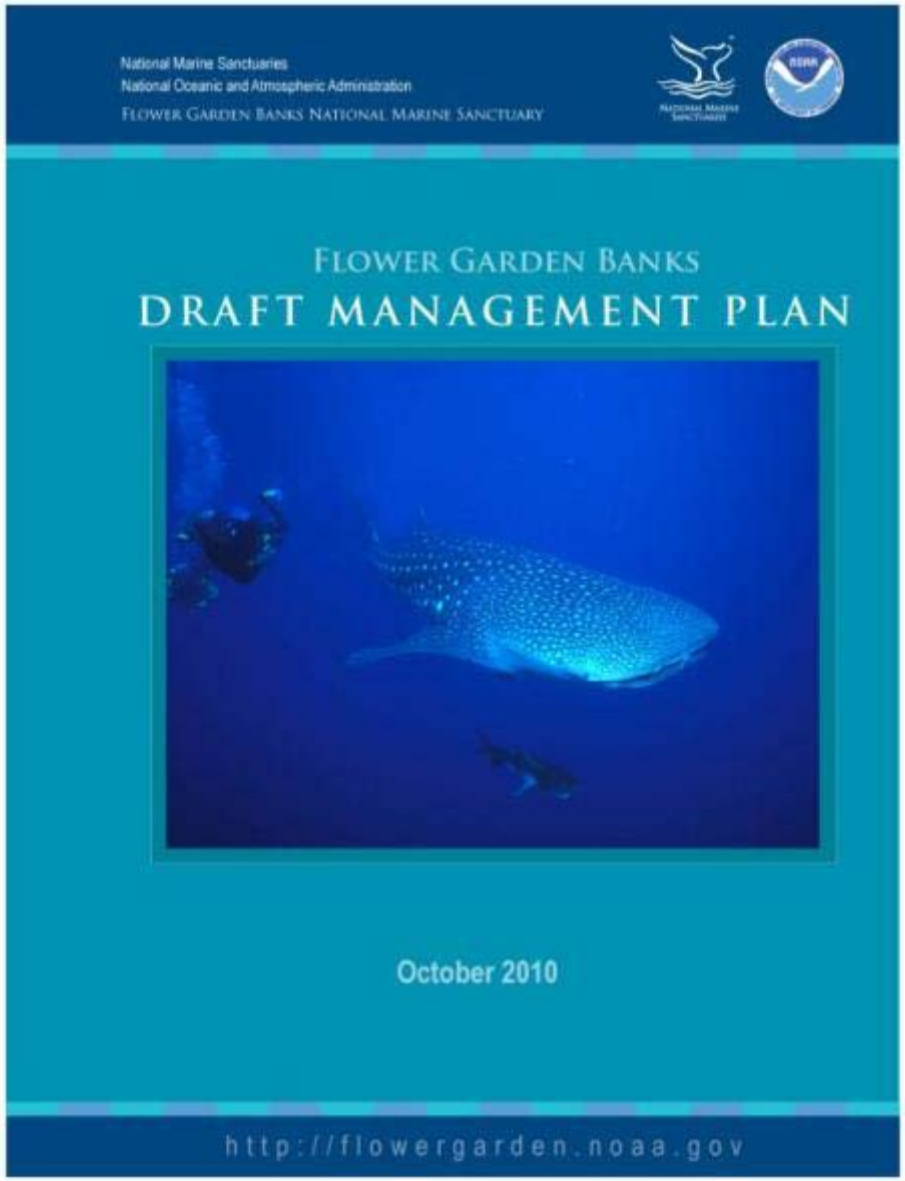
NATIONAL MARINE SANCTUARIES

NOAA

Flower Garden Banks National Marine Sanctuary

Draft Management Plan: Sanctuary Expansion Proposal

Emma L. Hickerson

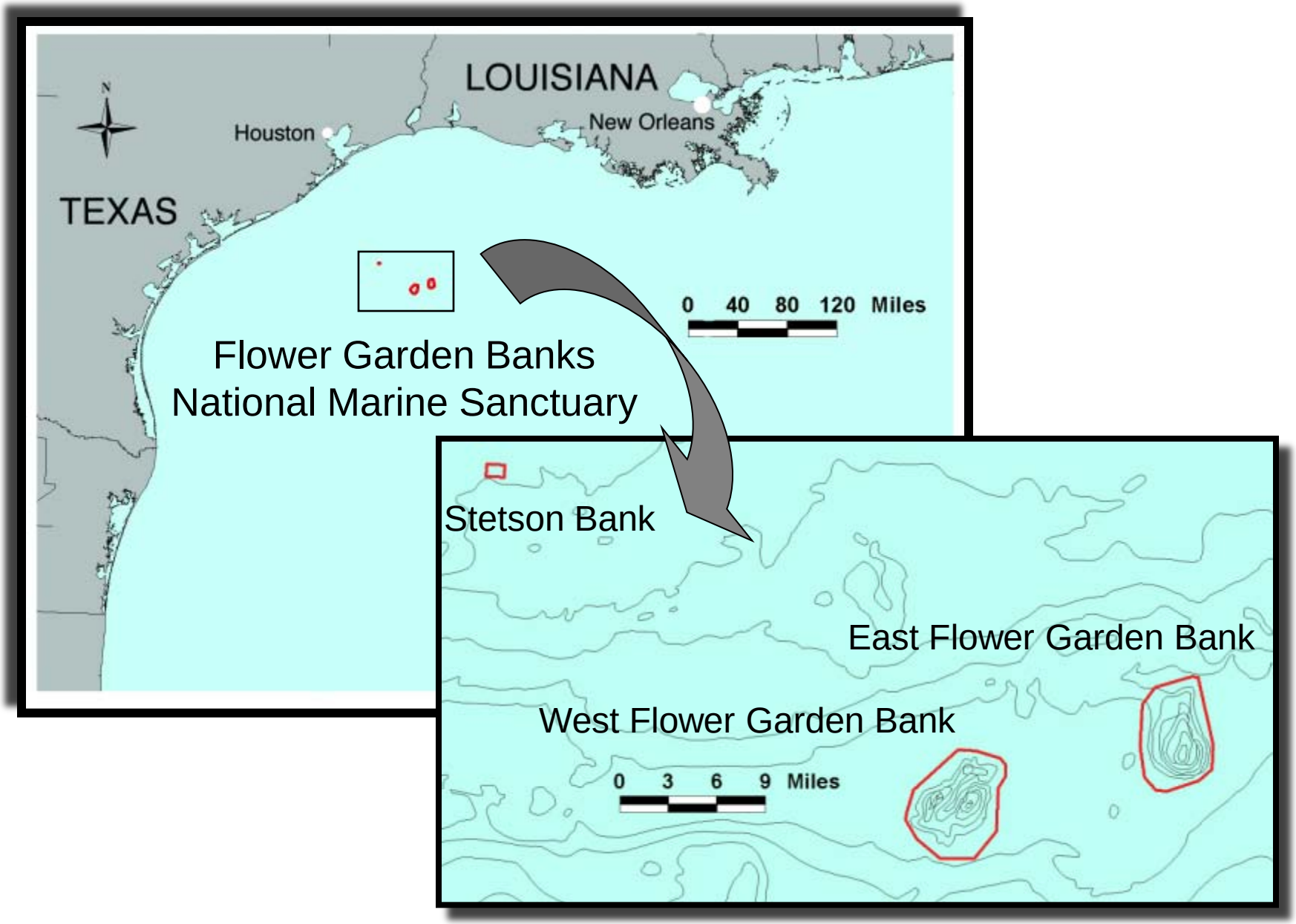


Flower Garden Banks National Marine Sanctuary Draft Management Plan

- Review process initiated 2006
- Released October 22, 2010
- Federal Register Vol. 75, No. 204
- Three Components:
  - Draft Management Plan
  - Proposed Rule (Regulations)
  - Environmental Assessment
- Comment period closed:

  JANUARY 20, 2011

Our National Marine Sanctuaries
Olympic Coast
Cordell Bank
Gulf of the Farallones
Monterey Bay
Channel Islands
Papahānaumokuākea
(Northwestern Hawaiian Islands)
Hawaiian Islands Humpback Whale
Fagatele Bay
American Samoa
Thunder Bay
Stellwagen Bank
Monitor
Gray's Reef
Flower Garden Banks
Florida Keys
Map Source: NASA
National Marine Sanctuary
Marine National Monument


LOUISIANA
New Orleans
Houston
TEXAS
0 40 80 120 Miles
Flower Garden Banks
National Marine Sanctuary
Stetson Bank
East Flower Garden Bank
West Flower Garden Bank
0 3 6 9 Miles

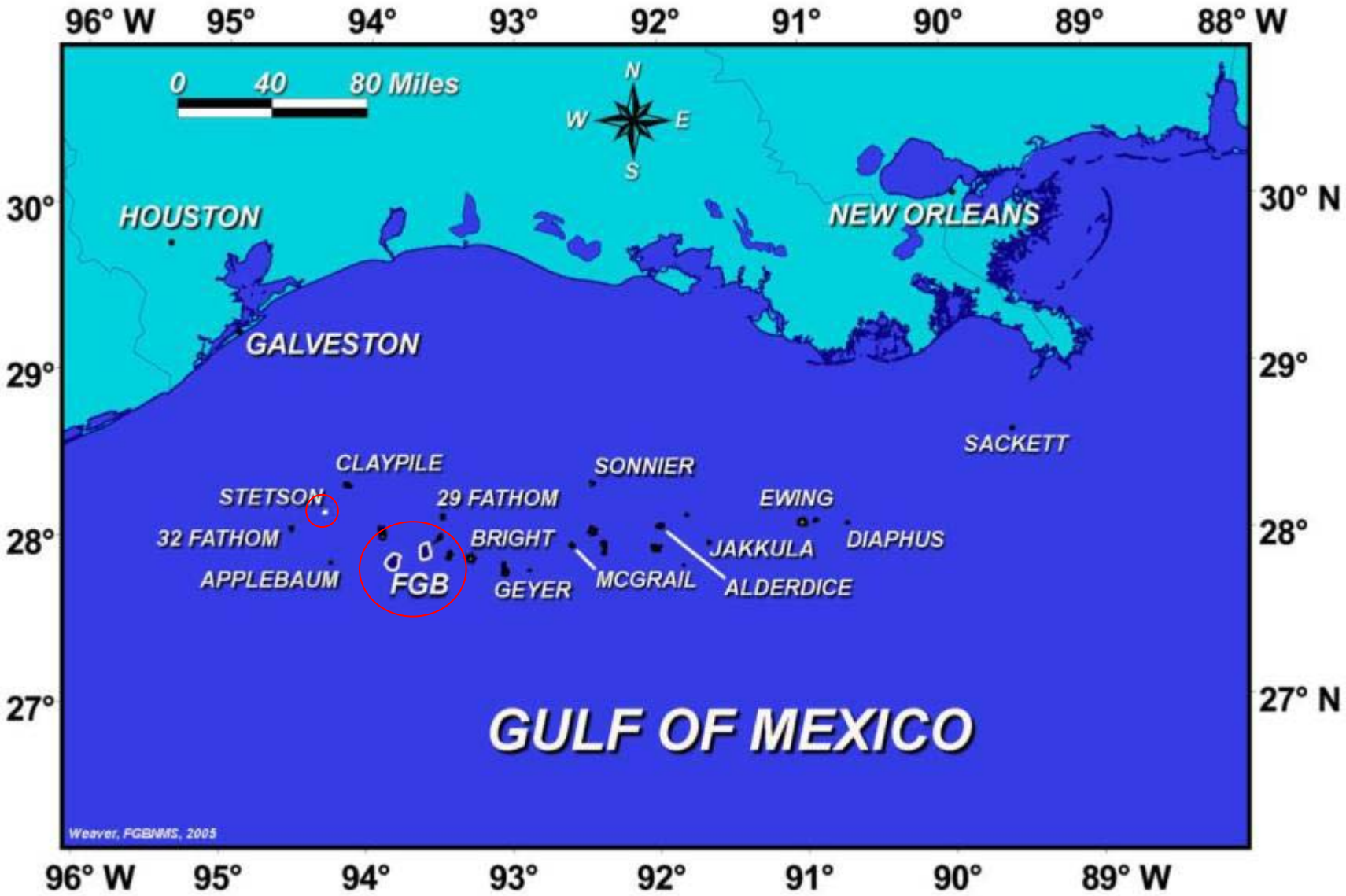
Flower Garden Banks National Marine Sanctuary

Designated in 1992

- Includes: East and West Flower Garden and Stetson Banks
- Stetson Bank added in 1996
- Located 93 to 104 nautical miles offshore in the Gulf of Mexico
- Area: 42.5 square nautical miles (56 square statute miles)
- Water Depth: 55’ to 500’

Regulated Activities

- Anchoring – all anchoring prohibited
  - Mooring buoys provided
    - Vessels over 100’ cannot moor on buoys
- Discharges – prohibited, with some exceptions
- Taking coral or invertebrates – prohibited
- Fishing - only hook and line fishing allowed
  - Spearfishing is prohibited
  - Possession of unauthorized gear prohibited
    - Vessels with unauthorized gear (shrimpboats, longliners) cannot stop or moor within the sanctuary


96° W
95°
94°
93°
92°
91°
90°
89°
88° W
0
40
80 Miles
N
W
E
S
30°
30° N
29°
29°
28°
28°
27°
27° N
HOUSTON
NEW ORLEANS
GALVESTON
SACKETT
CLAYPILE
SONNIER
STETSON
29 FATHOM
EWING
32 FATHOM
BRIGHT
JAKKULA
DIAPHUS
APPLEBAUM
FGB
GEYER
MCGRAIL
ALDERDICE
GULF OF MEXICO
Weaver, FGBNMS, 2005

Management Plan Review: Blueprints For Action

Establish management priorities and performance measures for all site programs

- Five-year time frame
- Community-based public process

Installing mooring buoy anchors at the *Flower Garden Banks NMS*

Sanctuary Advisory Council

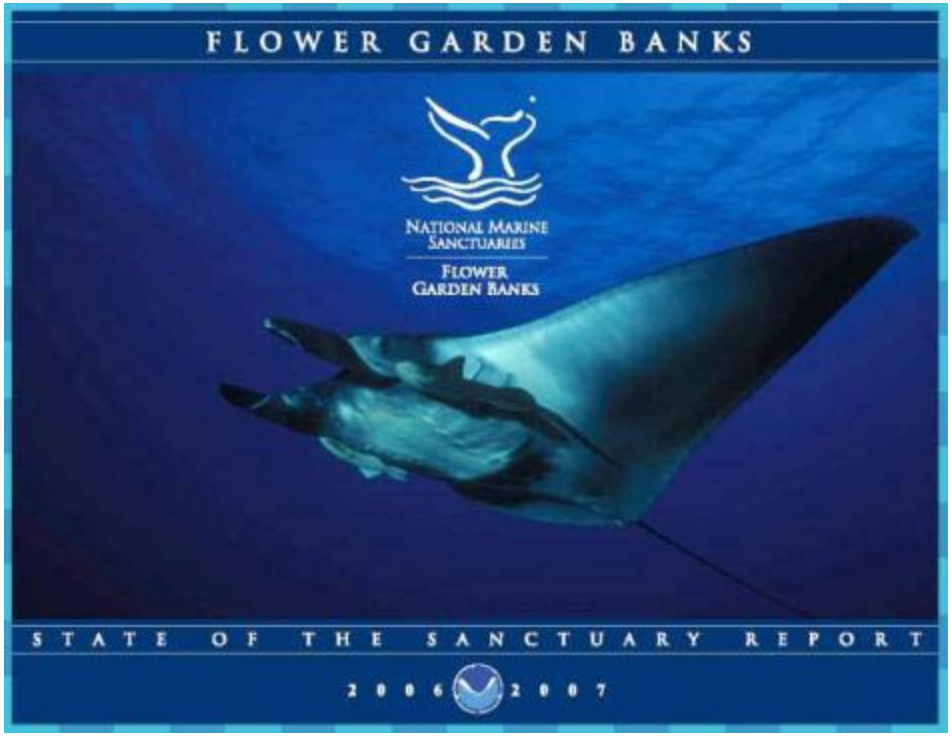
Recreational Diving

- Dive Operators
- Oil and Gas Industry
- Recreational Fishing
- Commercial Fishing
- Education
- Research
- Conservation

AGENCY (NON-VOTING)

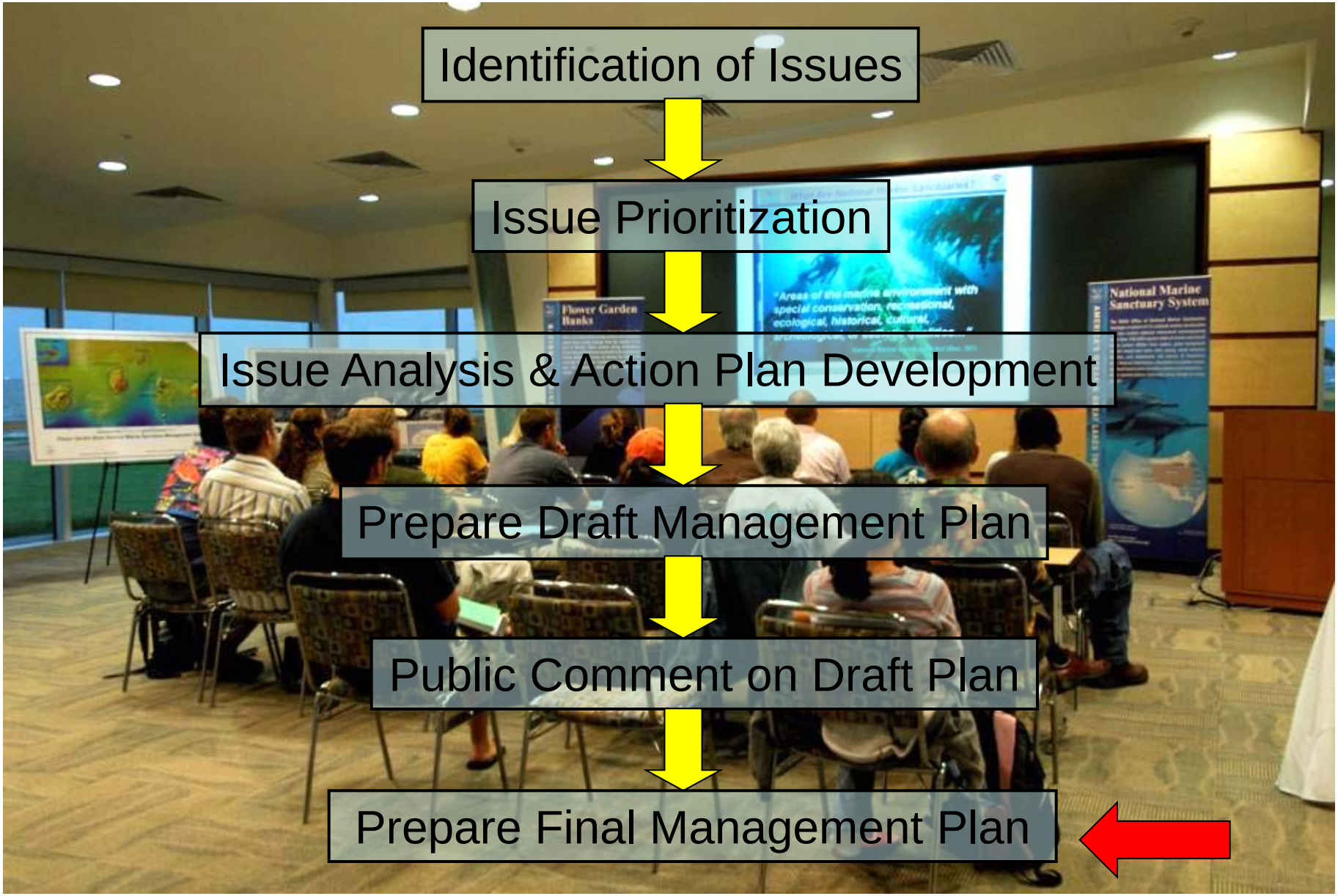
- NOAA Fisheries
- Bureau of Ocean Energy Management, Regulation and Enforcement
- U.S. Coast Guard
- NOAA Law Enforcement

“State of the Sanctuary” Report



Sanctuary status, existing conditions, goals & objectives, management programs, emerging issues, process description

Available from: http://flowergarden.noaa.gov

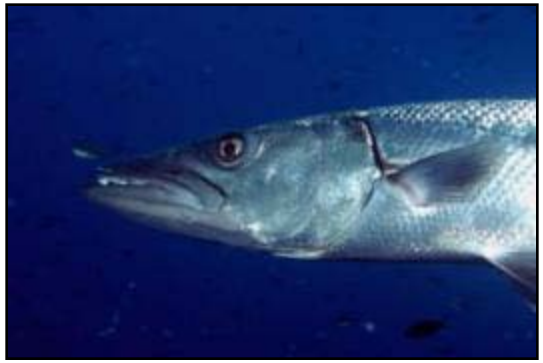

Identification of Issues
Issue Prioritization
Issue Analysis & Action Plan Development
Prepare Draft Management Plan
Public Comment on Draft Plan
Prepare Final Management Plan
Flower Garden Banks
National Marine Sanctuary System

Public Scoping Meetings 2006
Public Scoping Comment Summary

Comment Topic	Number of Comments
Fishing	**51**
Ban	46
Allow	5
Spearfishing	**42**
Ban	40
Allow	2
Pollution	**2**
Oil & Gas Structures and Exploration	**3**
Keep	2
Remove	1
Sound/Light	**3**
Global Warming	**1**
Limit Diving	**4**
Administration	**13**
Public Outreach/Education	**21**
Publicity	10
Education	11
Endangered Species	**5**
Boundary	**39**
Expand	39
Do Not Expand	0
Invasive Species	**7**
Anchoring	**16**
Research	**11**
Enforcement Concerns	**10**

PRIORITY ISSUES
(Sanctuary Advisory Council – 2/07)

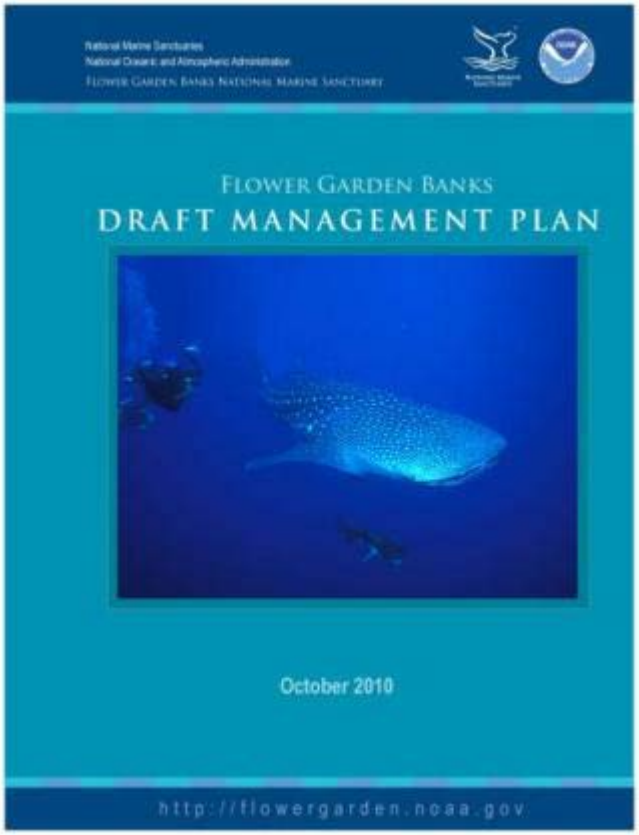
BOUNDARY EXPANSION



- FISHING IMPACTS
- VISITOR USE
- WATER QUALITY

- EDUCATION / OUTREACH
- ENFORCEMENT

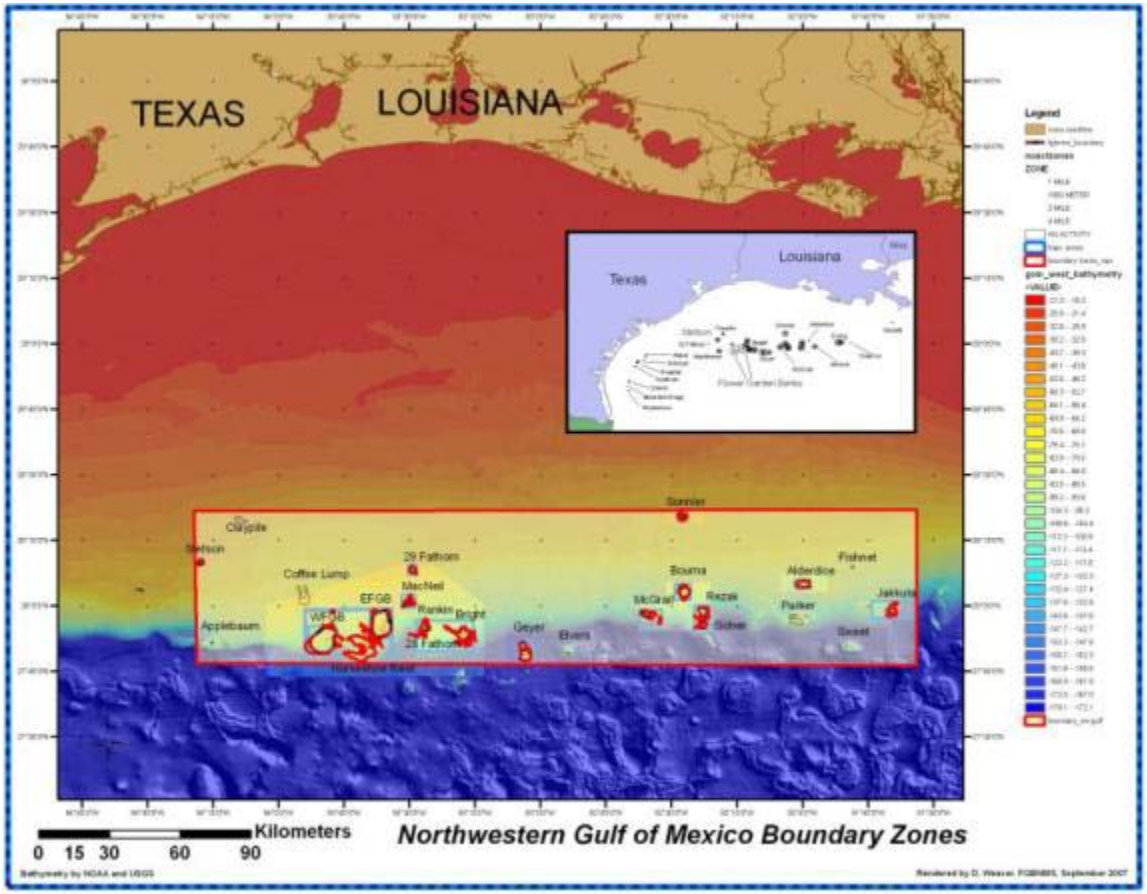
Six Action Plans:



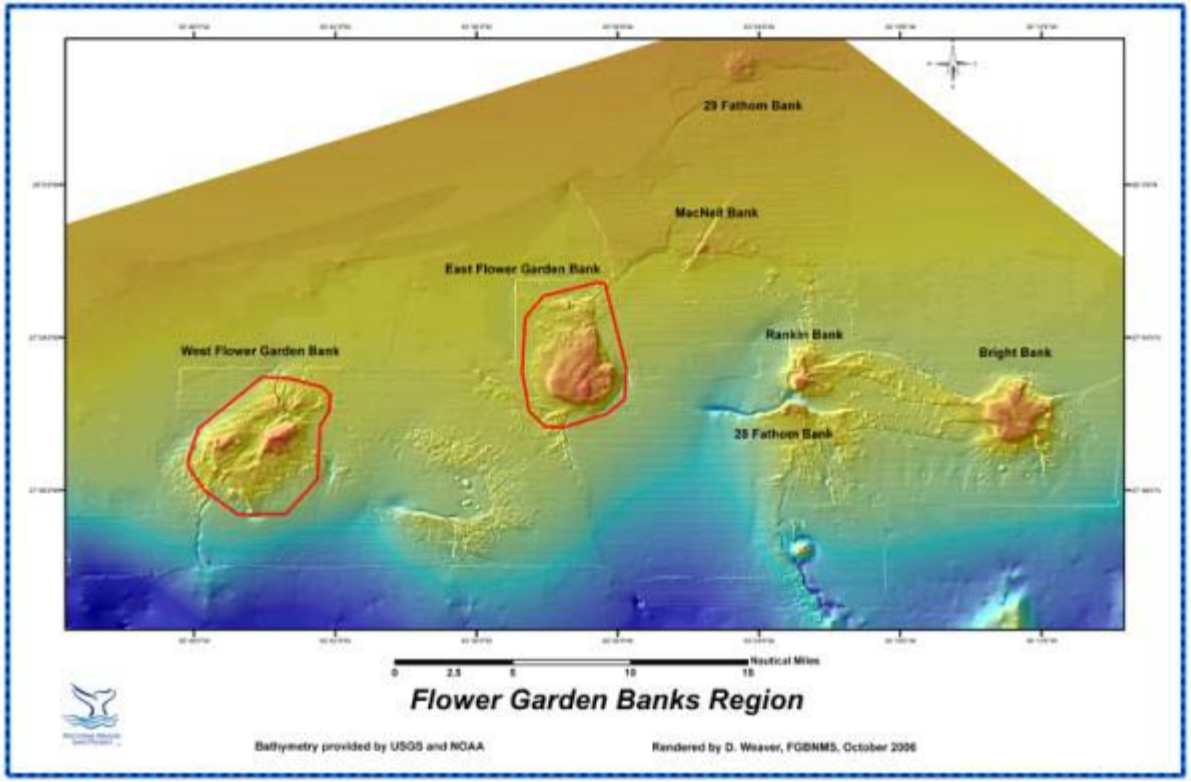
- Sanctuary Expansion
- Education and Outreach
- Research and Monitoring
- Resource Protection
- Visitor Use
- Operations and Administration

Boundary Expansion Working Group Members (created February 1, 2007):

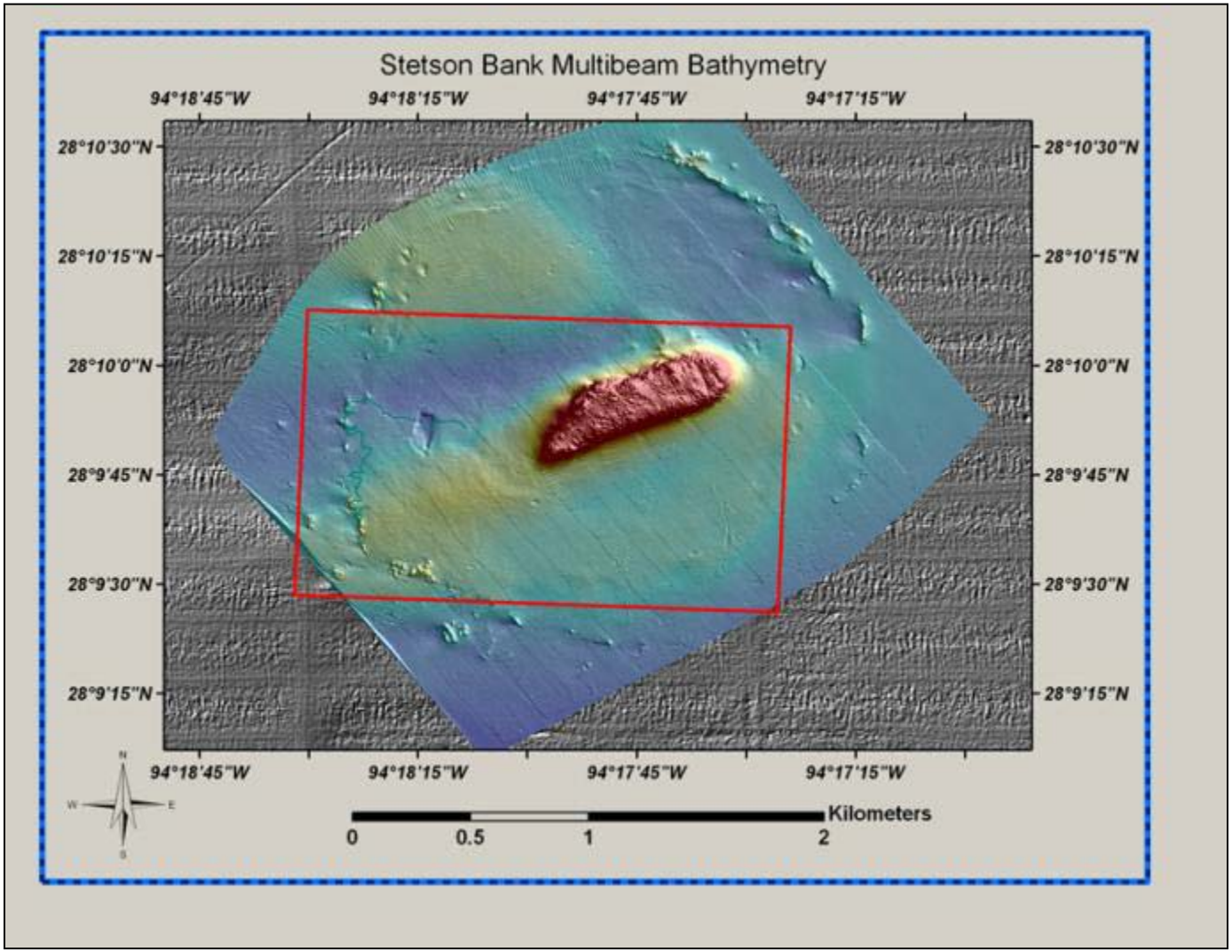
* Clint Moore, Chairperson, Council Oil and Gas Representative
* Emma Hickerson, FGBNMS Research Coordinator
* John Embesi, Council Research Representative
* Ian MacDonald, Council Research Representative
* James Sinclair, Council Minerals Management Service Representative
* Steve Gittings, NMSP National Science Program Coordinator
* Frank Burek, Council Recreational Diving Representative



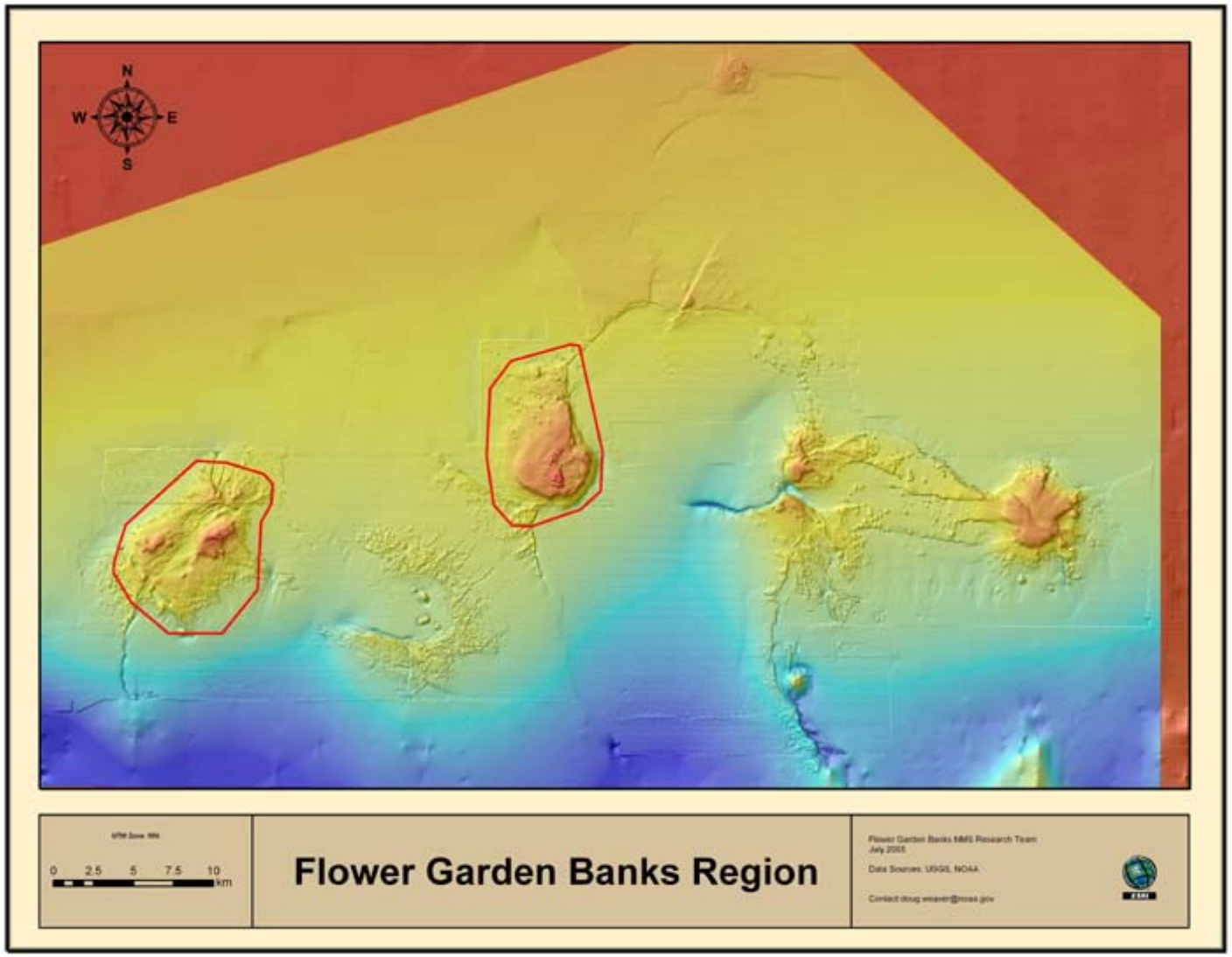
Issue Description: Potentially vulnerable geological and biological features associated with protected areas are outside the current Sanctuary boundaries. Additional features were revealed through the collection of high resolution multibeam bathymetry after the present sanctuary boundaries were established. Numerous banks associated features in the northwestern Gulf of Mexico may be ecologically linked to the Flower Garden Banks National Marine Sanctuary and like the Flower Garden Banks, may be highly vulnerable to certain anthropogenic impacts that alter the physical, chemical, biological, or acoustic environment. It is proposed that selected features be evaluated for inclusion under the management and protection through the Flower Garden Banks National Marine Sanctuary.



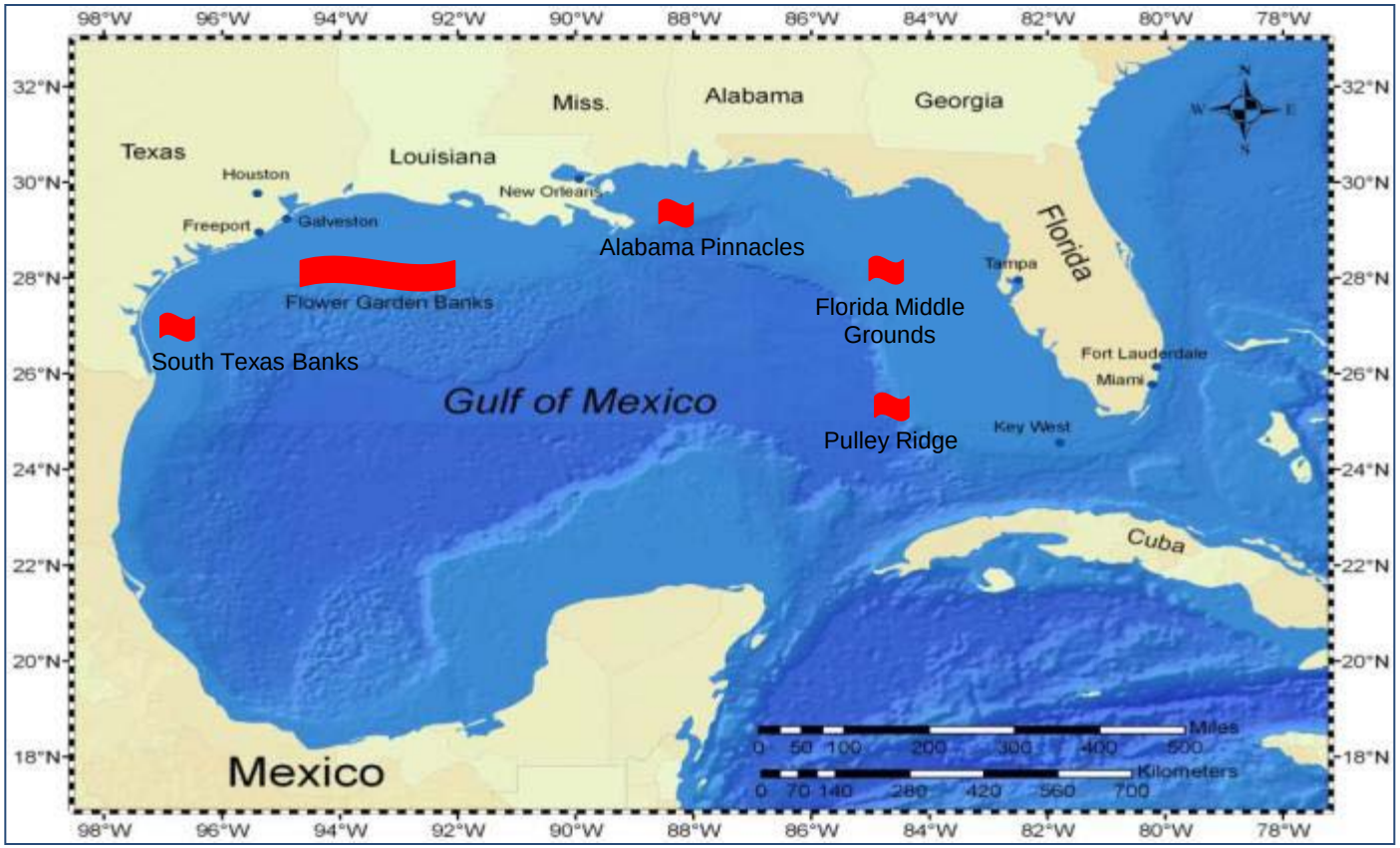
Problem Statement I: Consider expanding Sanctuary boundaries around Stetson Bank to include vulnerable habitat known as the Stetson Bank Ring. This semi-continuous ring of features is structurally and biologically part of the Stetson Bank ecosystem.



Problem Statement II: Consider expanding Sanctuary boundaries to include vulnerable habitats between and adjacent to the Flower Garden Banks that are structurally and biologically linked to the Flower Garden Banks ecosystem.



Problem Statement III: Numerous banks and associated topographic features in the northwestern Gulf of Mexico, like the Flower Garden Banks, have unique or unusual structural features, are populated by potentially vulnerable hard bank assemblages, and may be ecologically linked to each other. These should be assessed for effectiveness of current protection, and evaluated for inclusion under the management and protection of the FGBNMS.



Ranking Criteria

Area or Bank	Area considered for incorporation into the FGBNMS
Zone Priority Index	Biological/Geological Significance/Uniqueness based on MMS criteria and FGBNMS recent acquisition of data
Connectivity Index	Connectivity to current FGBNMS features
Threat Index	Level of known or perceived threat
Public and Sanctuary priority	Level of interest through public scoping and sanctuary knowledge to incorporate site.

Zone Priority Index (Biological/Geological Significance)	High - 3 Med - 2 Low - 1

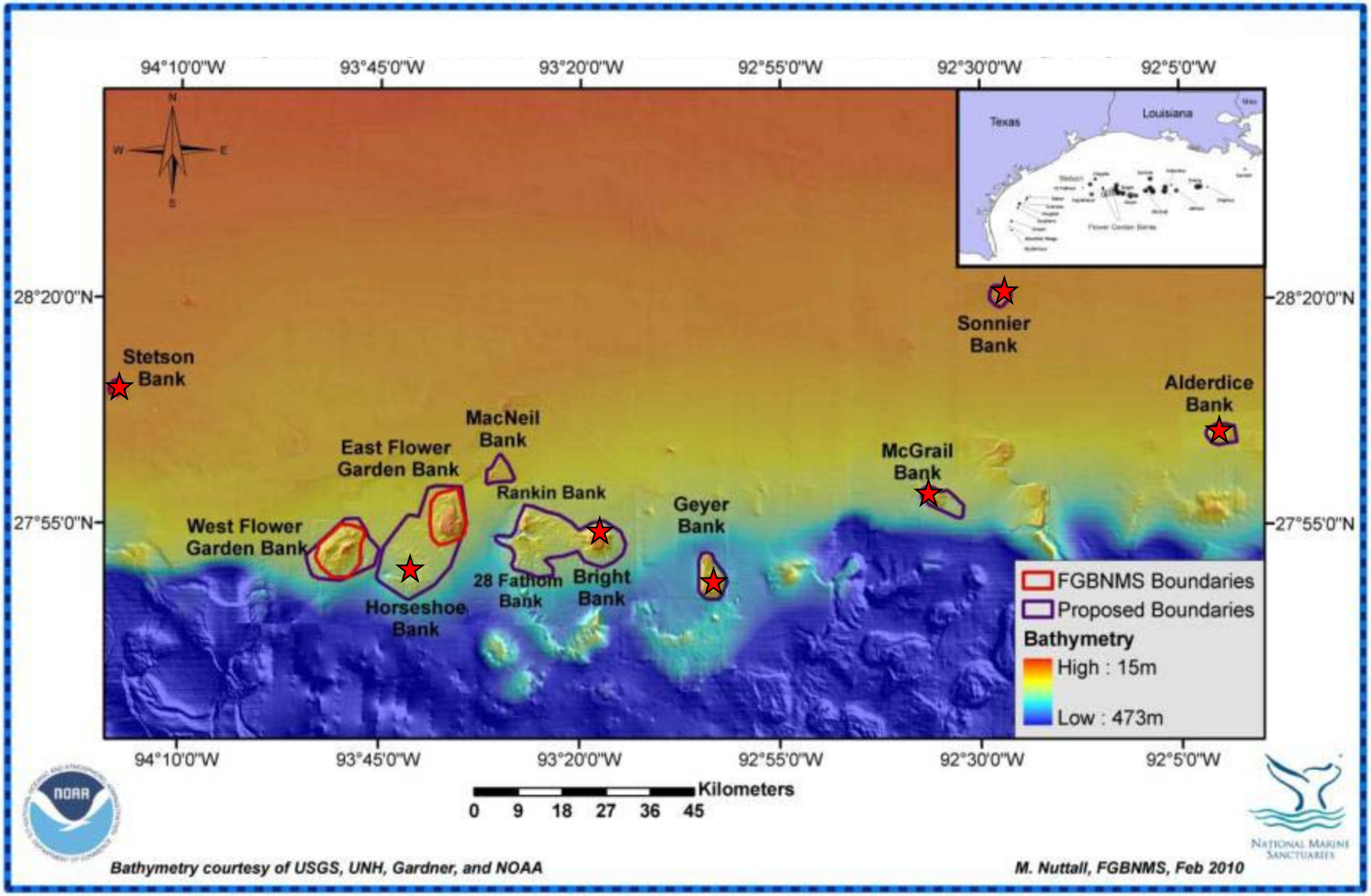
Threat index	High - 3 Med - 2 Low - 1

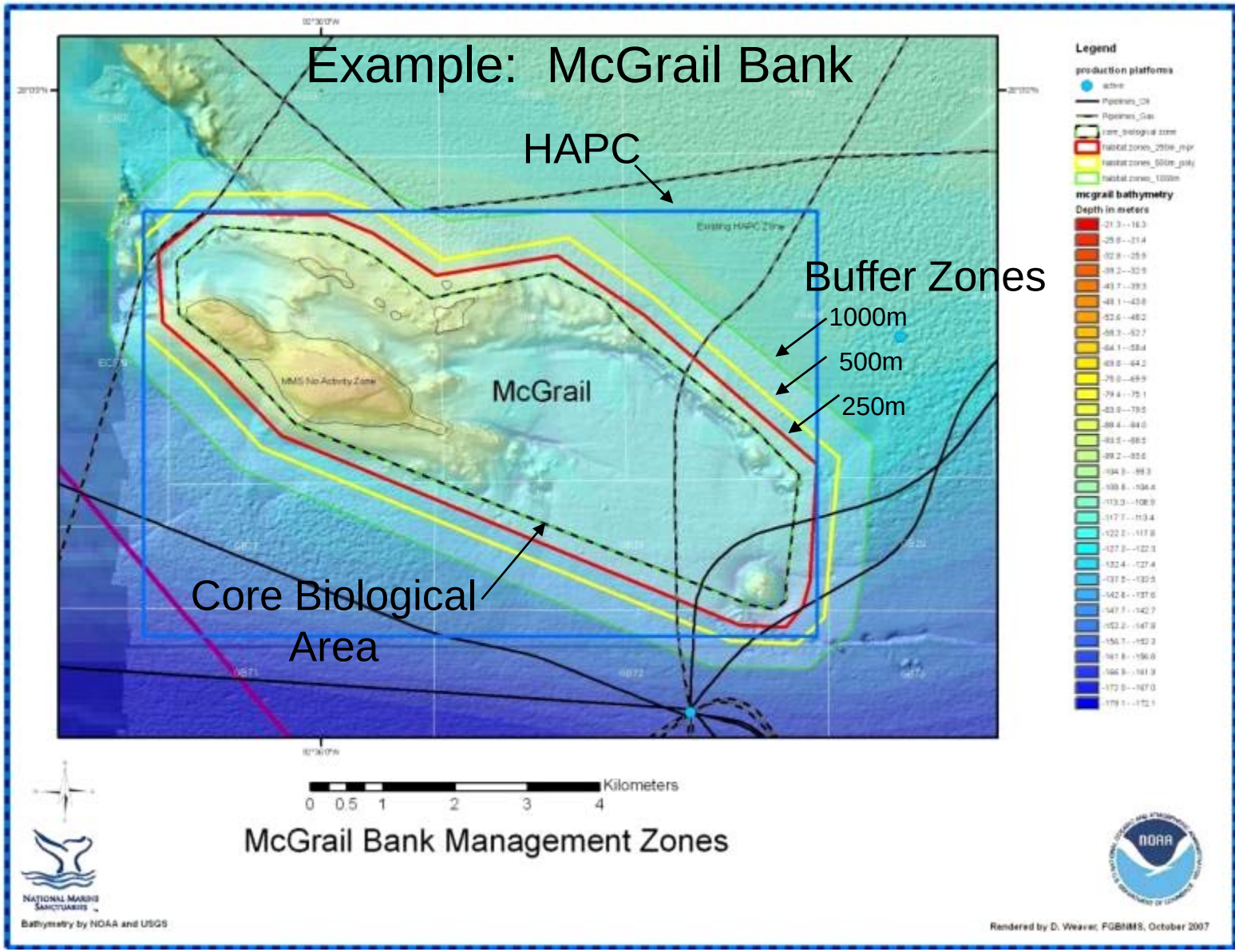
Structural Connectivity	Contiguous - 3 Connected - 2 In geographic region - 1

Biological Connectivity	
0-10 km	3
11-20 km	2
21-30 km	1

Public and Sanctuary Priority Index (level of interest to incorporate site)	High - 3 Med - 2 Low - 1

Area or Bank	Overall ranking
Stetson Ring	12
McGrail	11
Geyer	11
Bright	11
Sonnier	10
Horseshoe reef - b/n banks	10
Alderdice	9.5
Rezak	7
Sidner	7
Rankin	6
28 Fathom	6
MacNeil	6
Bouma	5
Jakkula	4
Florida Middle Grounds	4
Pinnacles	2
Madison/Swanson	2


94°10'0"W
93°45'0"W
93°20'0"W
92°55'0"W
92°30'0"W
92°5'0"W
28°20'0"N
27°55'0"N
N
S
E
W
Texas
Louisiana
Sonnier Bank
Stetson Bank
Alderdice Bank
MacNeil Bank
East Flower Garden Bank
Rankin Bank
McGrail Bank
Geyer Bank
West Flower Garden Bank
28 Fathom Bank
Bright Bank
Horseshoe Bank
FGBNMS Boundaries
Proposed Boundaries
Bathymetry
High : 15m
Low : 473m
Kilometers
0 9 18 27 36 45
NOAA
National Marine Sanctuaries
Bathymetry courtesy of USGS, UNH, Gardner, and NOAA
M. Nuttall, FGBNMS, Feb 2010


Example: McGrail Bank
HAPC
Buffer Zones
1000m
500m
250m
McGrail
Core Biological Area
Legend
production platforms
mcgrail bathymetry
Depth in meters
Kilometers
0 0.5 1 2 3 4
McGrail Bank Management Zones
Bathymetry by NOAA and USGS
Rendered by D. Weaver, FGBNMS, October 2007

FLOWER GARDEN BANKS NATIONAL MARINE SANCTUARY

BOUNDARY EXPANSION WORKING GROUP

PROPOSAL TO SANCTUARY ADVISORY COUNCIL

ALTERNATIVES PACKAGE

THURSDAY, SEPTEMBER 27, 2007

CLINT MOORE, IAN MACDONALD, JOHN EMBESI, FRANK BUREK, JAMES SINCLAIR, STEVE GITTINGS, EMMA HICKERSON

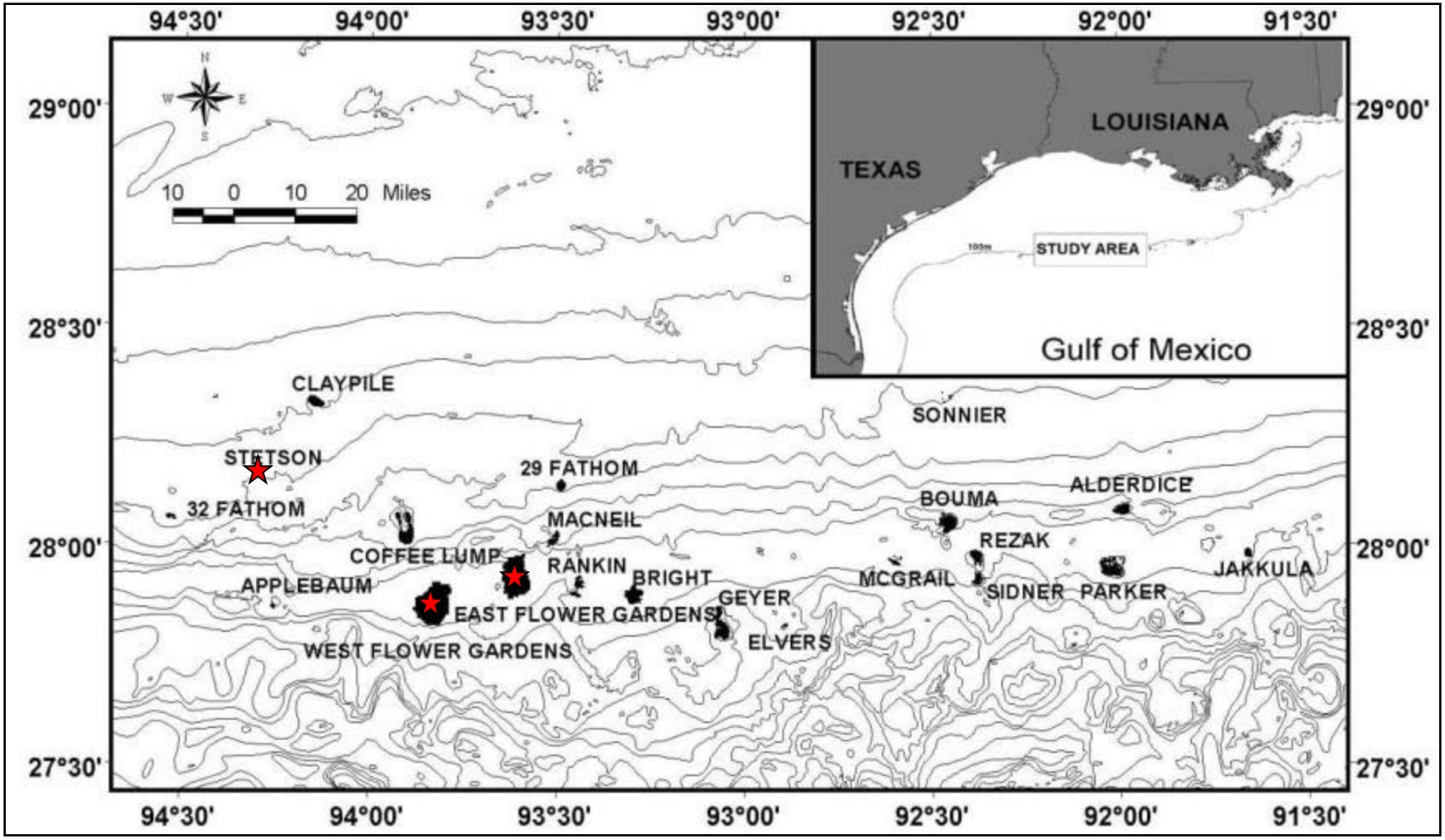
ALTERNATIVE 1

No action

ALTERNATIVE 2

Modify existing boundaries for East and West Flower Garden Banks and Stetson Bank through actions creating boundaries based on:

A. Core Biological Zone
B. HAPC boundary



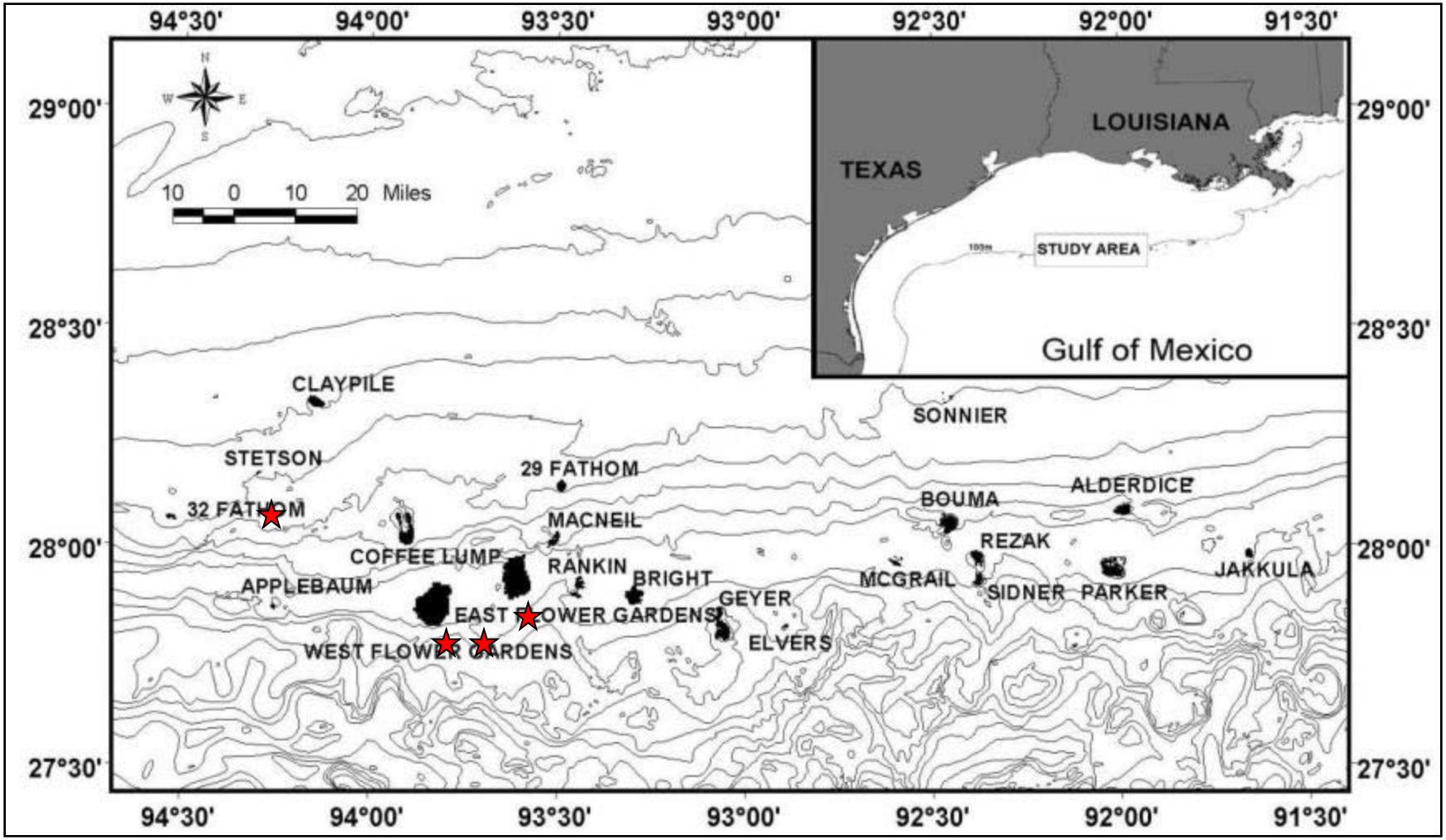
ALTERNATIVE 2

ALTERNATIVE 3

Alternative 2, plus:

Modify existing boundaries to East and West Flower Garden Banks to include Horseshoe Bank, through actions creating boundaries based on either:

A. Core Biological Zone encompassing EFGB, WFGB, and Horseshoe Bank
B. Rectangular boundary encompassing EFGB, WFGB, and Horseshoe Bank



ALTERNATIVE 3

ALTERNATIVE 4

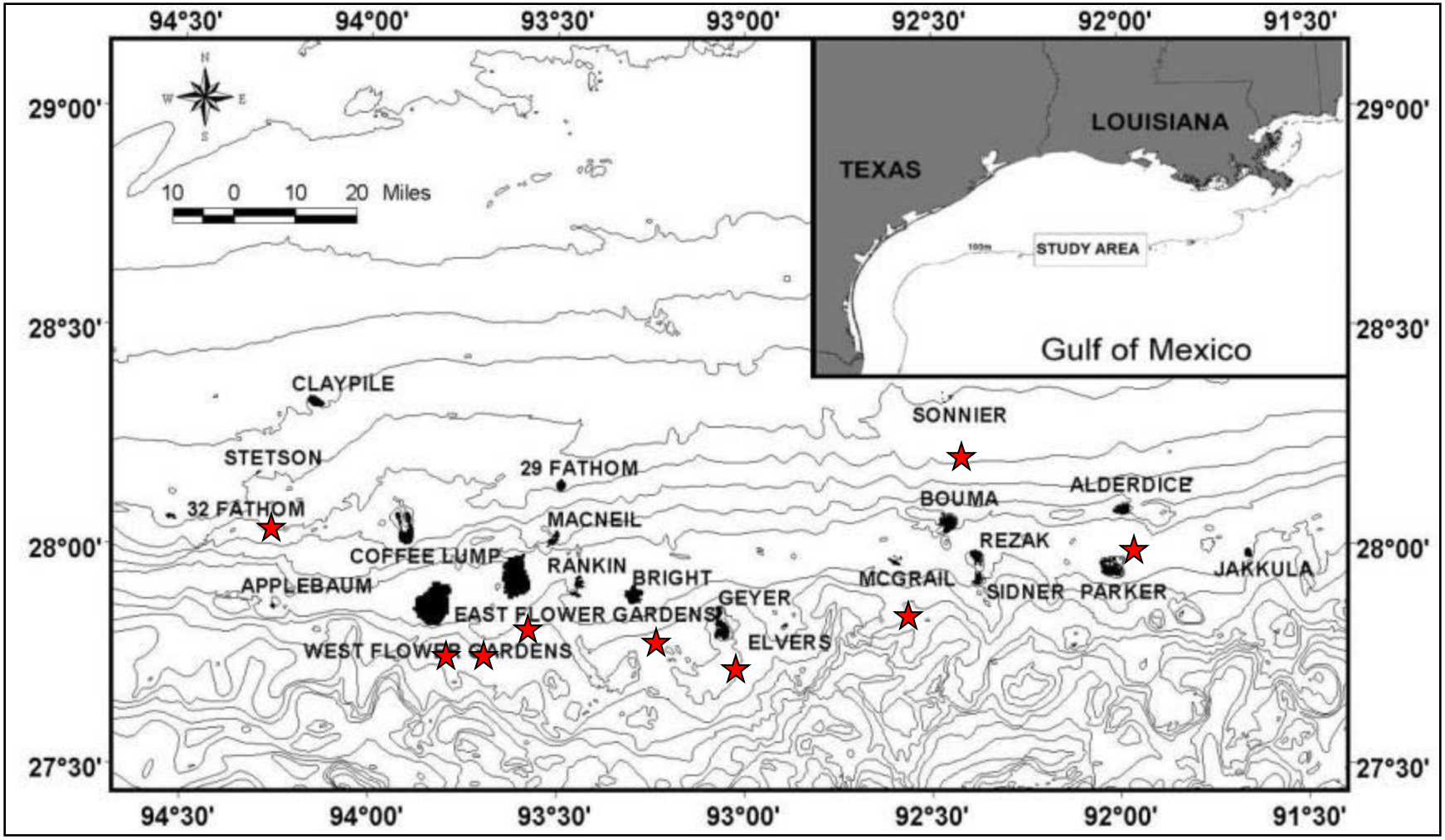
Alternative 3, plus:

Create Sanctuary boundaries to include priority areas:

- McGrail Bank
- Geyer Bank
- Bright Bank
- Sonnier Bank
- Alderdice Bank

Through actions creating boundaries based on either:

A. Core Biological Zone
B. HAPC boundaries, with the exception of Bright Bank; see proposed alternate boundaries.



ALTERNATIVE 4

ALTERNATIVE 5

Alternative 4, plus:

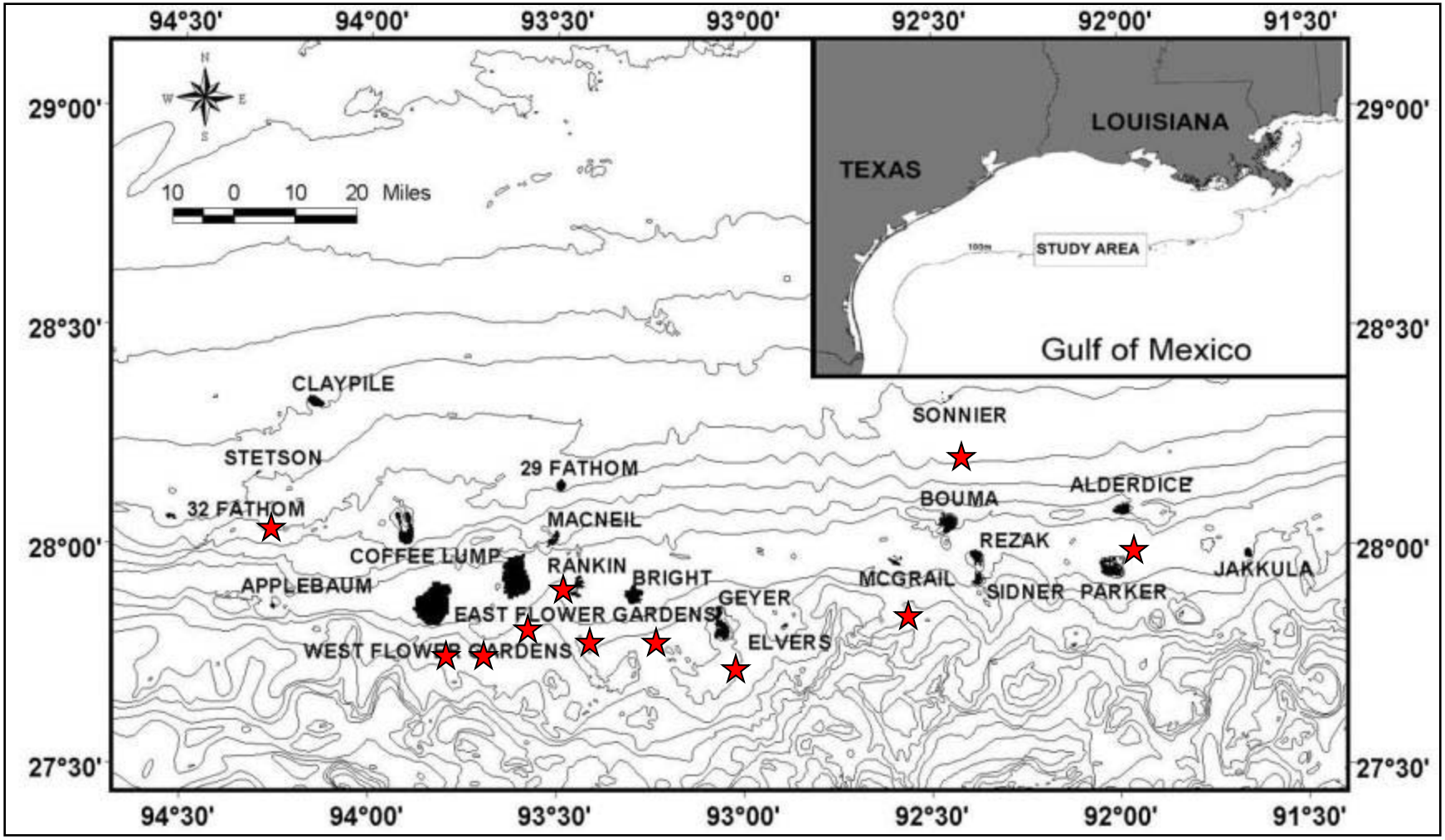
Create Sanctuary boundaries to include:

- MacNeil Bank
- Rankin Bank *
- 28 Fathom Bank *

Through actions creating boundaries based on either:

A. Core Biological Zone
B. HAPC boundaries

* SHZ and HAPC for Rankin and 28 Fathom Bank are connected to Bright Bank.



ALTERNATIVE 5

ALTERNATIVE 6

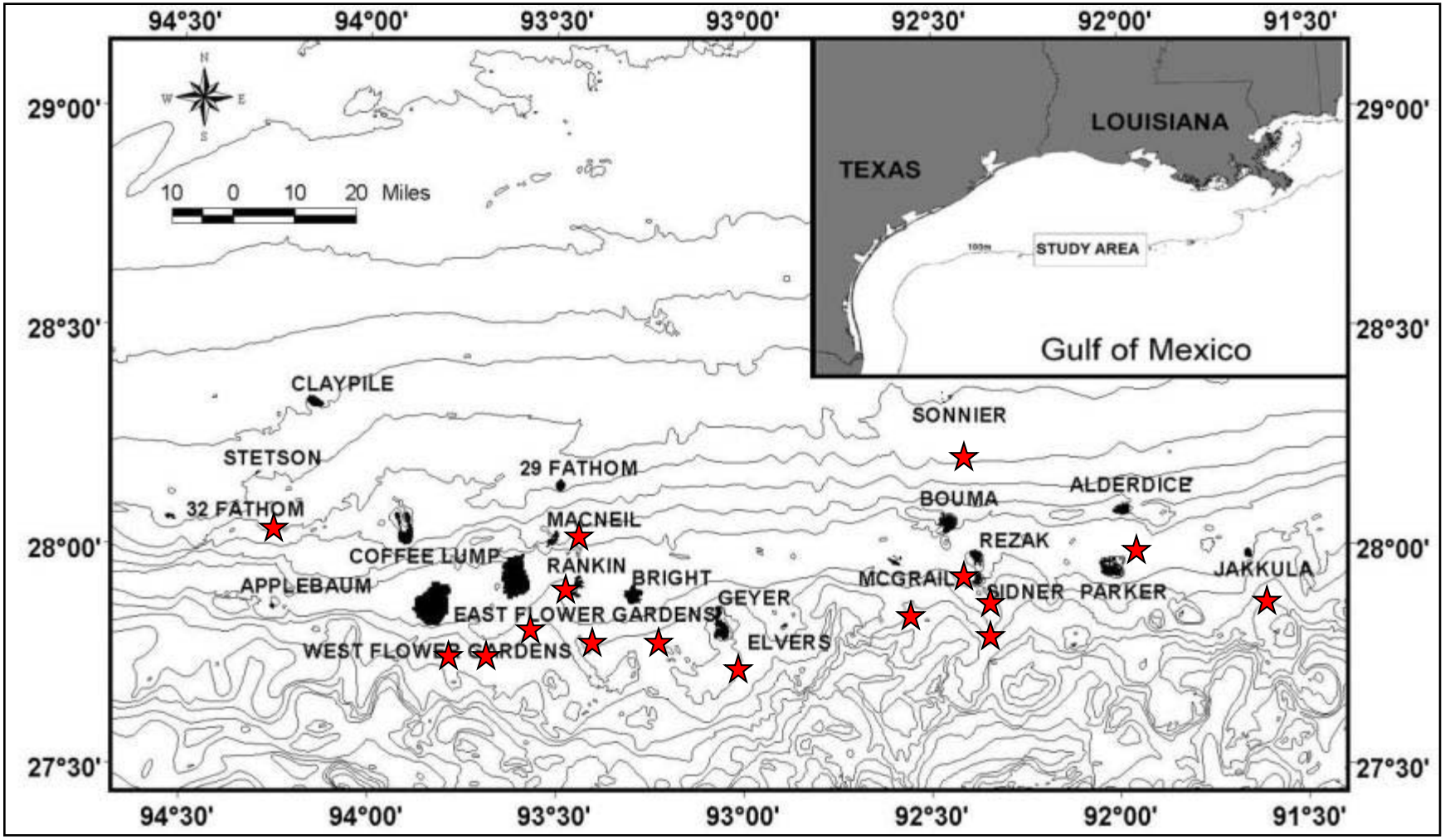
Alternative 5, plus:

Create Sanctuary boundaries to include all HAPC reefs and banks including:

- 29 Fathom Bank
- Bouma Bank
- Rezak Bank
- Sidner Bank
- Jakkula Bank

Through actions creating boundaries based on either:

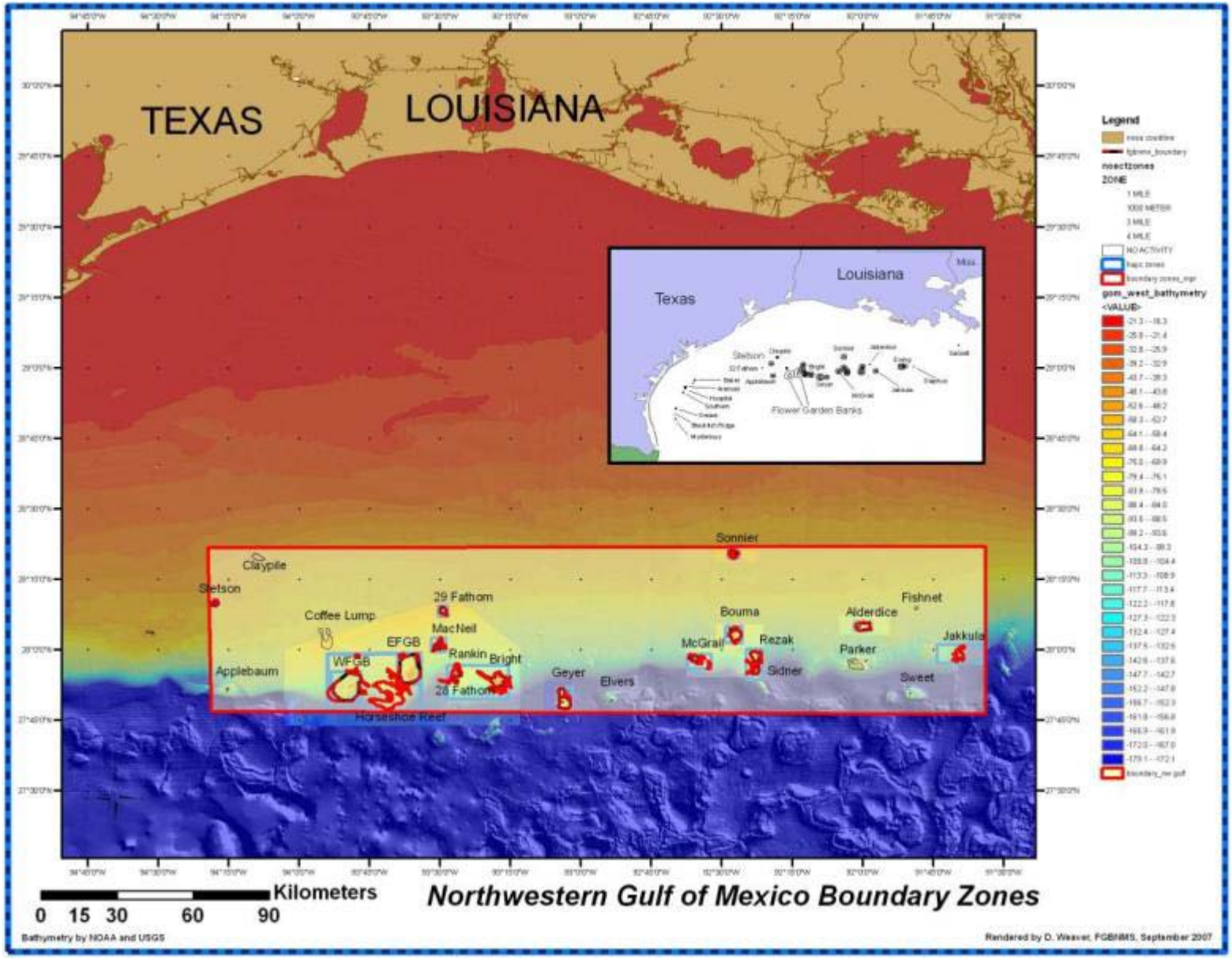
A. Core Biological Zone
B. HAPC boundaries

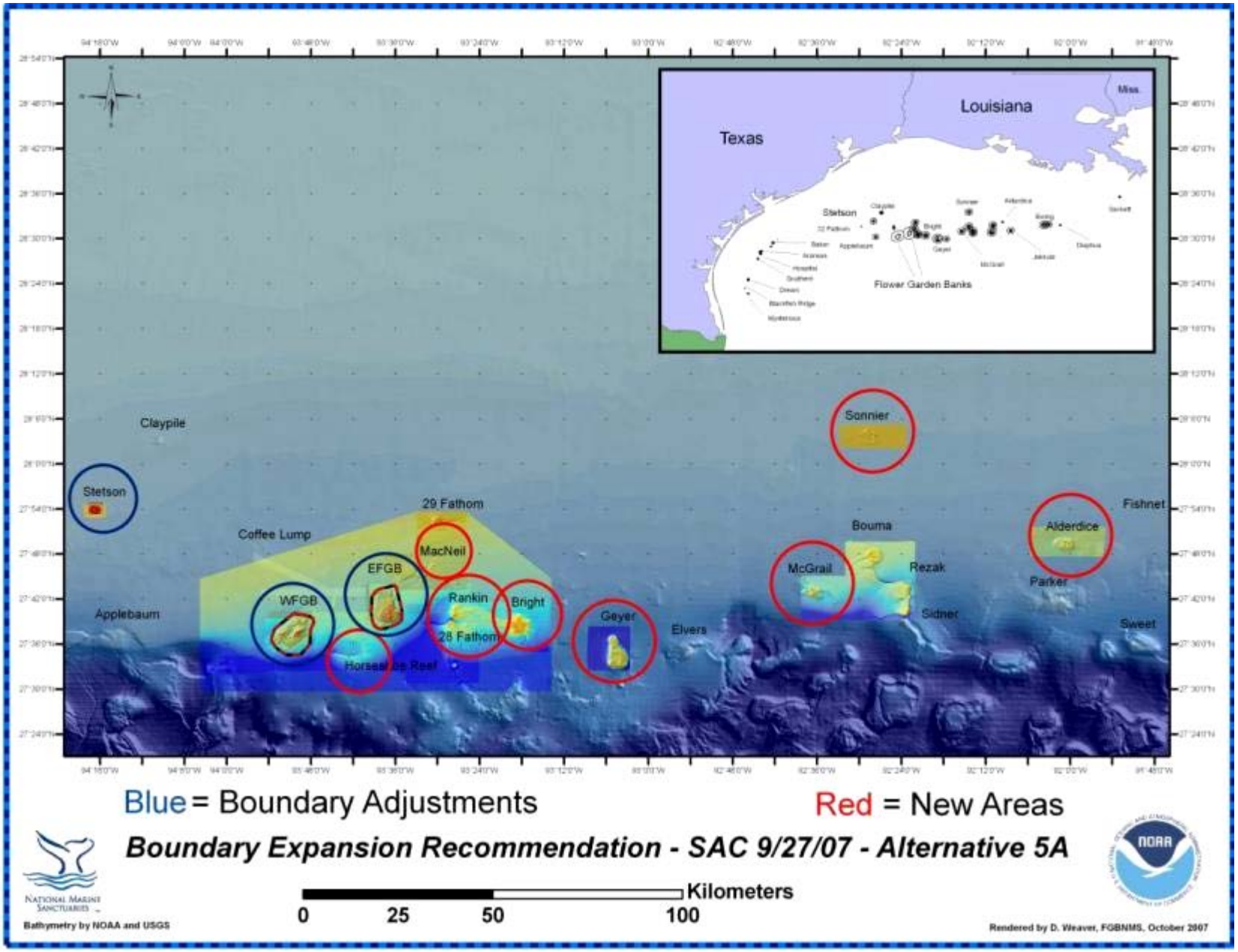


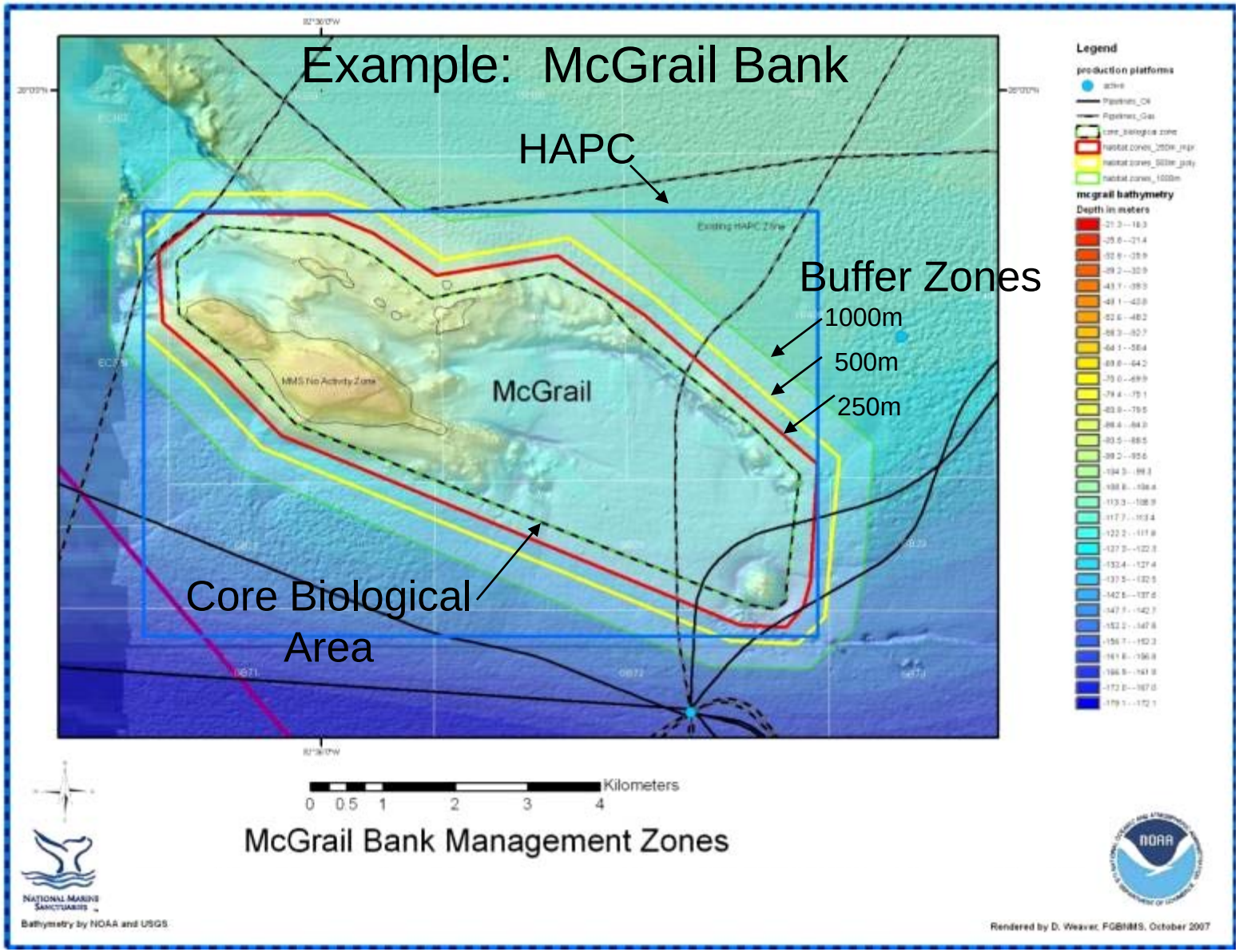
ALTERNATIVE 6

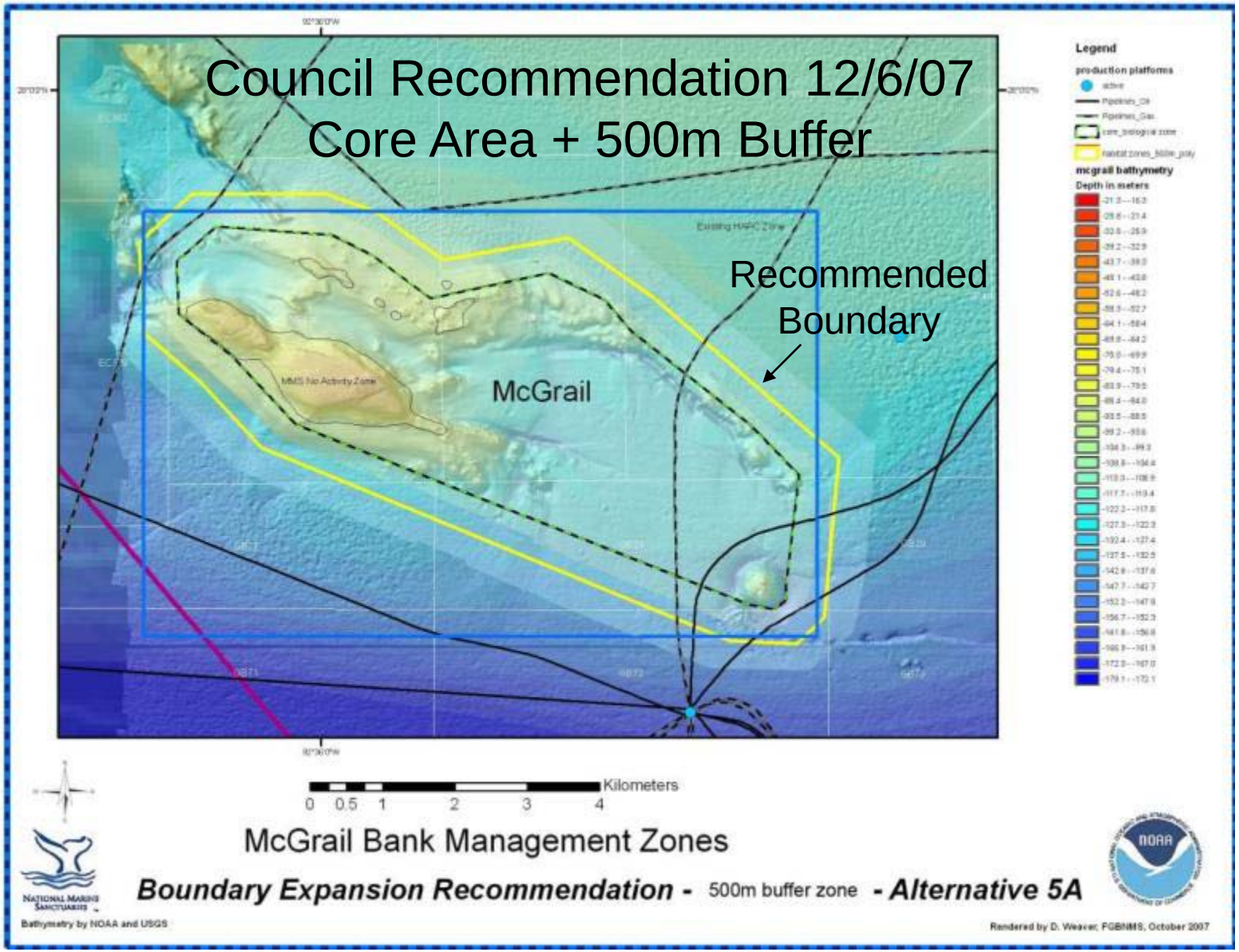
ALTERNATIVE 7

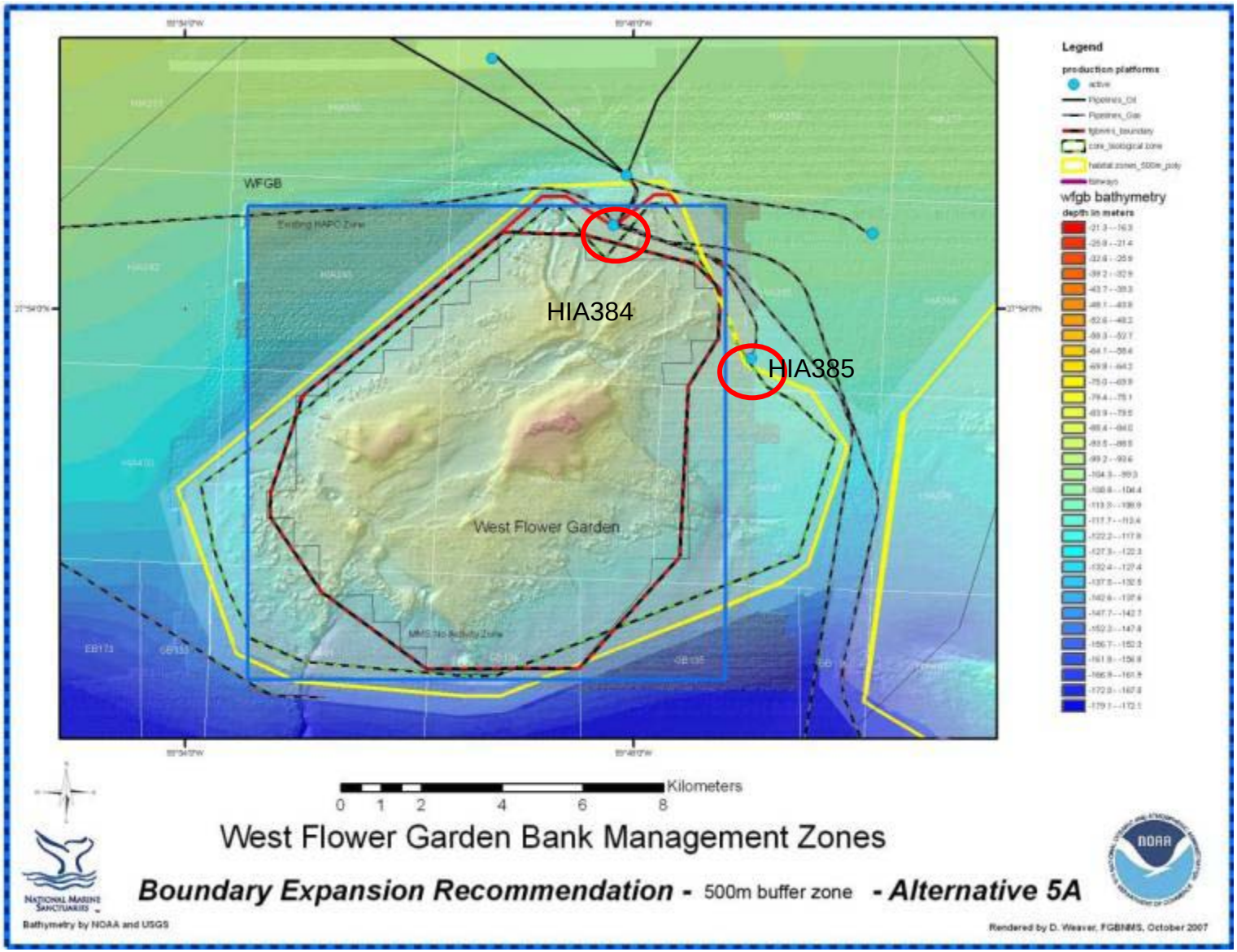
Encompass all Northwestern Gulf of Mexico Reefs and Banks from Stetson Bank to Jakkula Bank, with varying layers of regulations.


TEXAS
LOUISIANA
Texas
Louisiana
Flower Garden Banks
Sonnier
Claypile
Stetson
29 Fathom
Coffee Lump
MacNeil
EFGB
WFGB
Rankin
Bright
Applebaum
26 Fathom
Horseshoe Reef
Geyer
Elvers
McGrail
Bouma
Rezak
Sidner
Alderdice
Fishnet
Parker
Jakkula
Sweet
Legend
noactzones
ZONE
NO ACTIVITY
gom_west_bathymetry
Kilometers
0 15 30 60 90
Northwestern Gulf of Mexico Boundary Zones
Bathymetry by NOAA and USGS
Rendered by D. Weaver, FGBNMS, September 2007

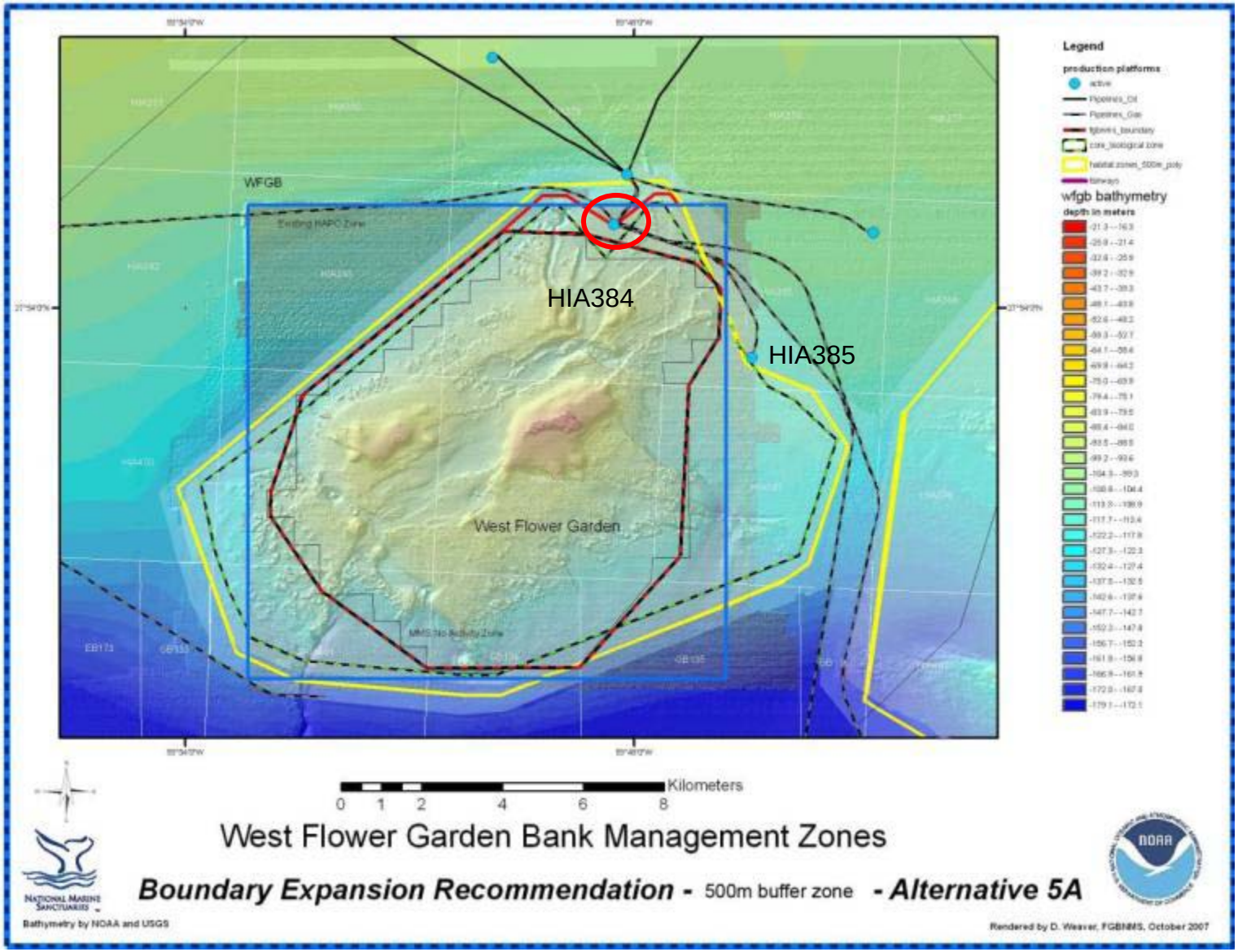

Texas
Louisiana
Miss.
Stetson
Flower Garden Banks
Claypile
Stetson
Coffee Lump
29 Fathom
MacNeil
EFGB
WFGB
Rankin
Bright
28 Fathom
Applebaum
Horseshoe Reef
Geyer
Elvers
Sonnier
Bouma
McGrail
Rezak
Sidner
Alderdice
Fishnet
Parker
Sweet
Blue = Boundary Adjustments
Red = New Areas
Boundary Expansion Recommendation - SAC 9/27/07 - Alternative 5A
Kilometers
0
25
50
100
National Marine Sanctuaries
Bathymetry by NOAA and USGS
Rendered by D. Weaver, FGBNMS, October 2007


Example: McGrail Bank
HAPC
Buffer Zones
1000m
500m
250m
McGrail
Core Biological Area
Legend
production platforms
mcgrail bathymetry
Depth in meters
Kilometers
0 0.5 1 2 3 4
McGrail Bank Management Zones
Bathymetry by NOAA and USGS
Rendered by D. Weaver, FGBNMS, October 2007


Council Recommendation 12/6/07
Core Area + 500m Buffer
Recommended Boundary
McGrail
Legend
production platforms
mcgrail bathymetry
Depth in meters
Kilometers
0 0.5 1 2 3 4
McGrail Bank Management Zones
Boundary Expansion Recommendation - 500m buffer zone - Alternative 5A
NOAA
Bathymetry by NOAA and USGS
Rendered by D. Weaver, FGBNMS, October 2007



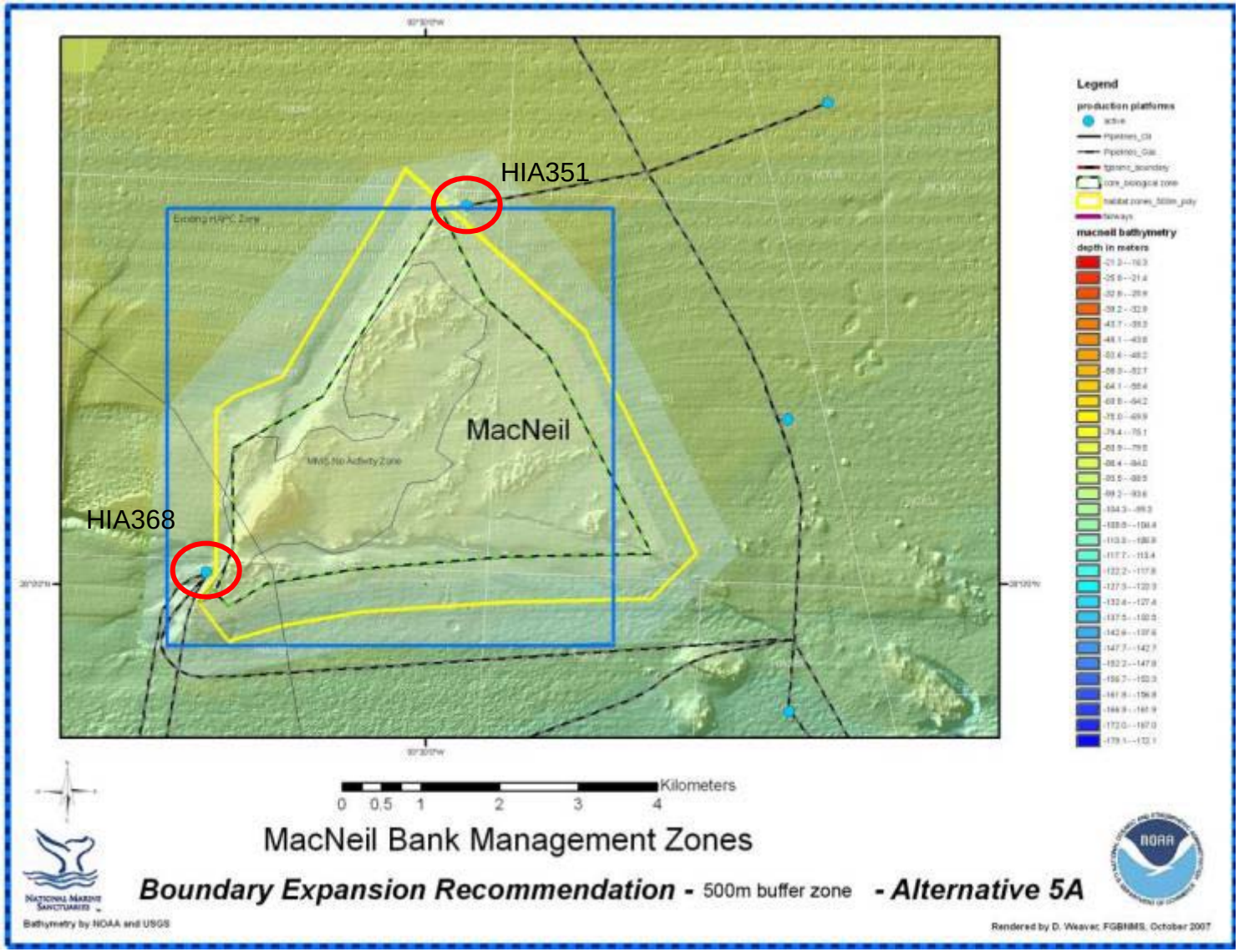
HIA384, HIA385
Offshore Shelf
LLC



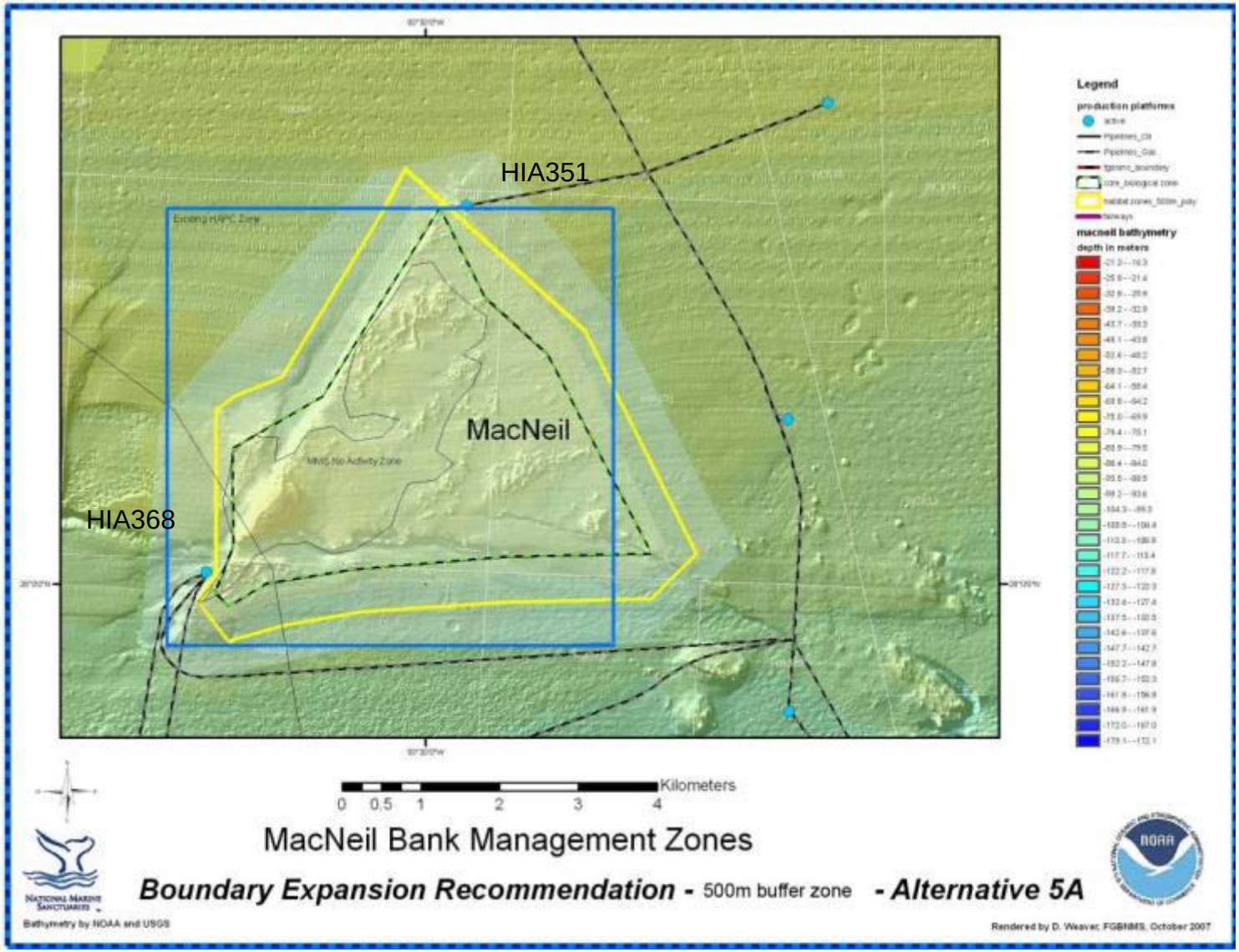
HIA384, HIA385 Offshore Shelf LLC

HIA384 IN

HIA385 OUT

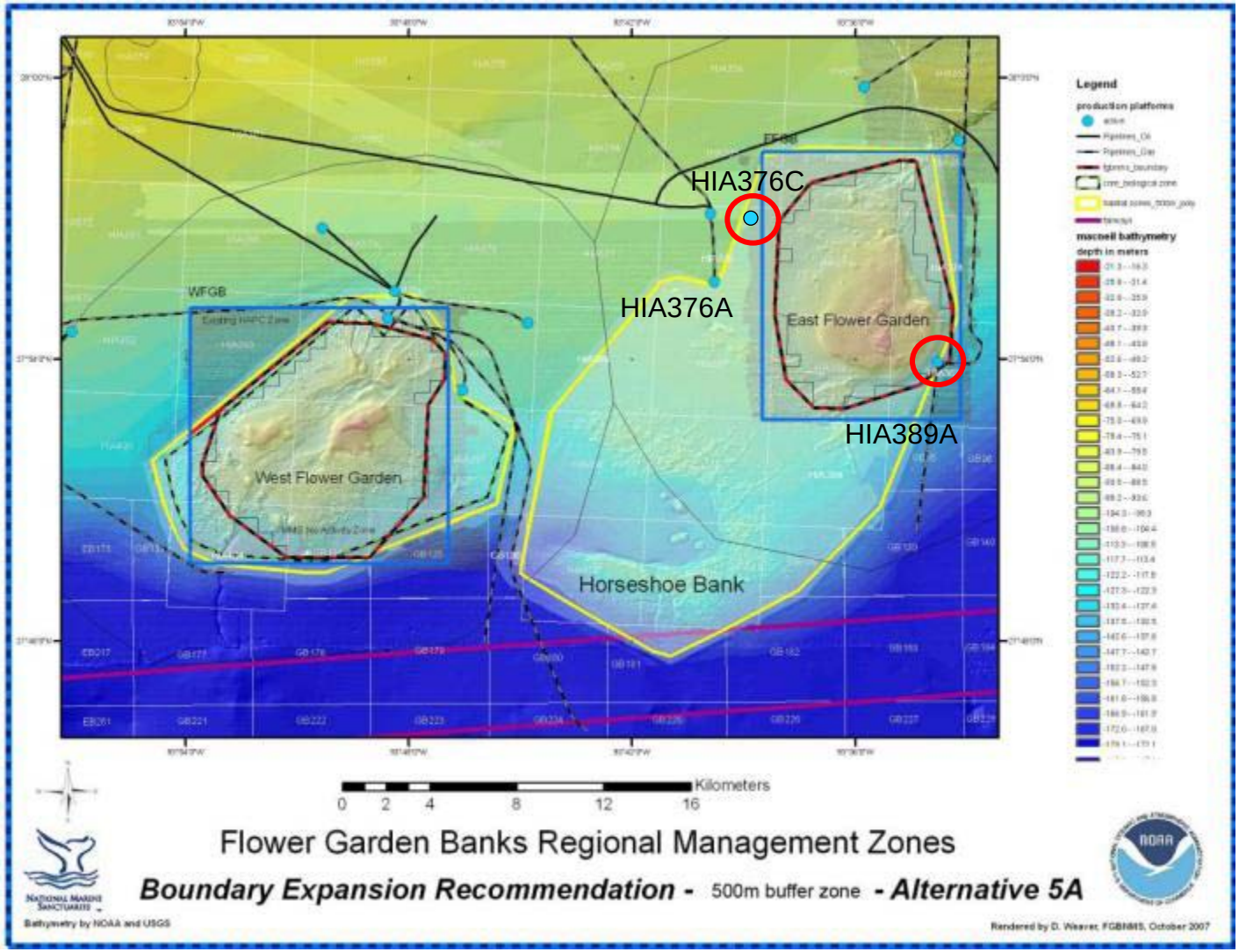


HIA351, HIA368
EL PASO E&P



HIA351, HIA368
EL PASO E&P

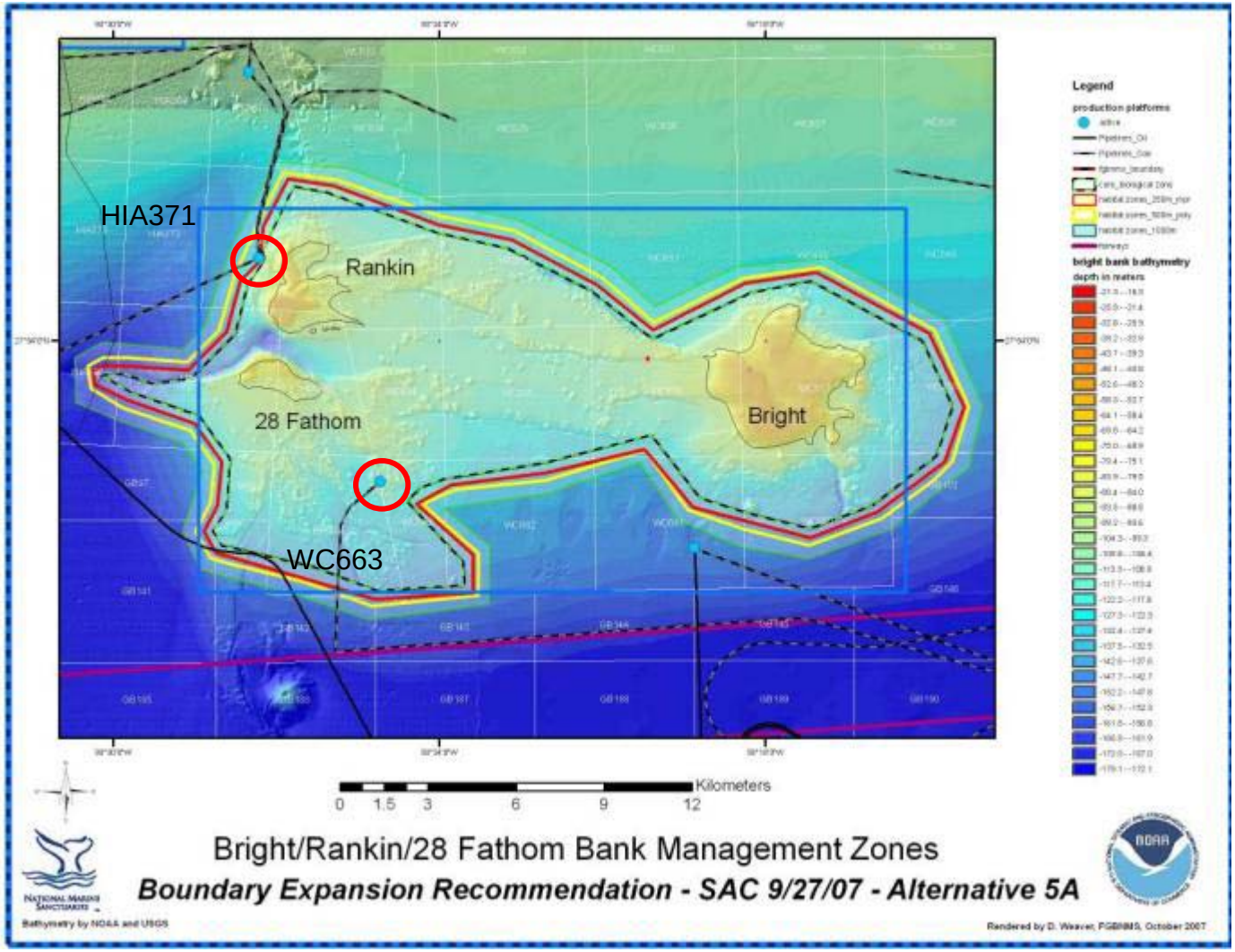
HIA351, HIA368
OUT



HIA376A
APACHE
OUT

HIA376C
APACHE
IN

HIA389A
W&T OFFSHORE
IN



HIA371
TARPON O&D
IN

WC663
ATP A&G
IN

Summary of Oil and Gas Infrastructure Discussions
Boundary Expansion Working Group
October 25, 2007

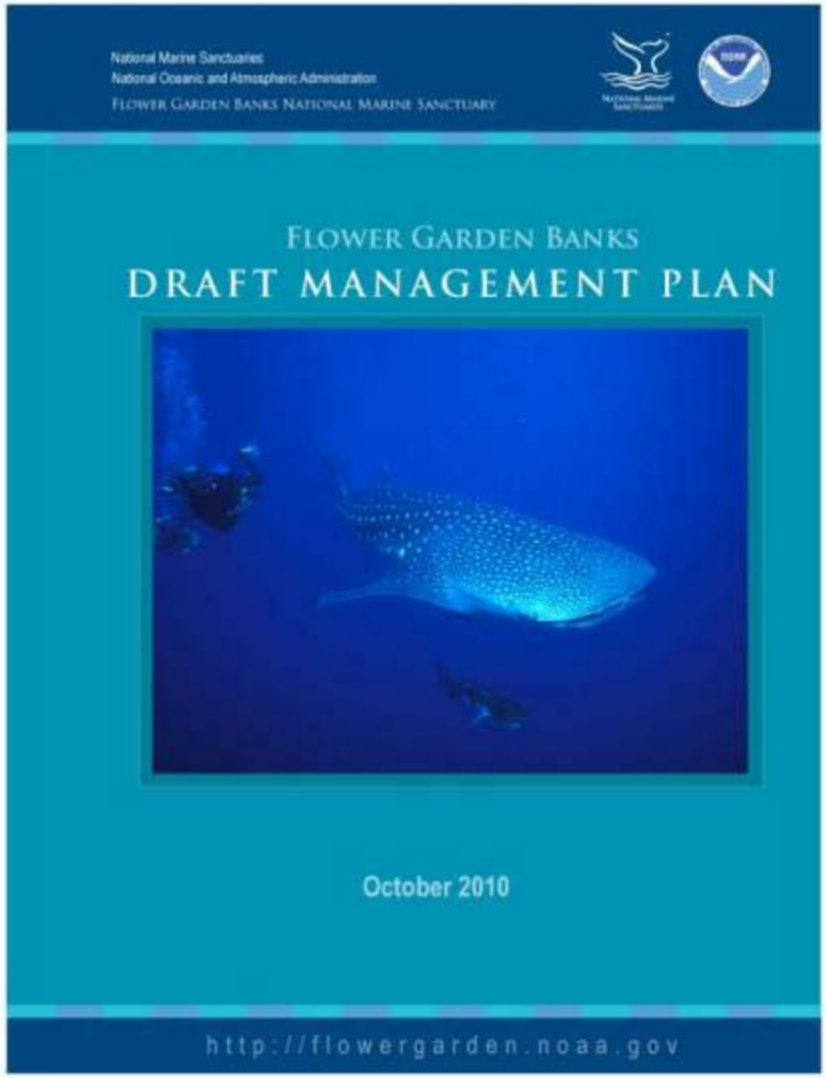
West FGB: HIA384 - Offshore Shelf LLC – included
HIA385 - Offshore Shelf LLC – excluded

East FGB: HIA389A - W&T Offshore – included
HIA376C - Apache – included (installed 2009)

Horseshoe: HIA376 - Apache – excluded

MacNeil: HIA 351 – El Paso E&P – excluded
HIA 368 – El Paso E&P – excluded

Rankin: HIA371 – Tarpon Operating & Development - included
WC663 – ATP A&G – included



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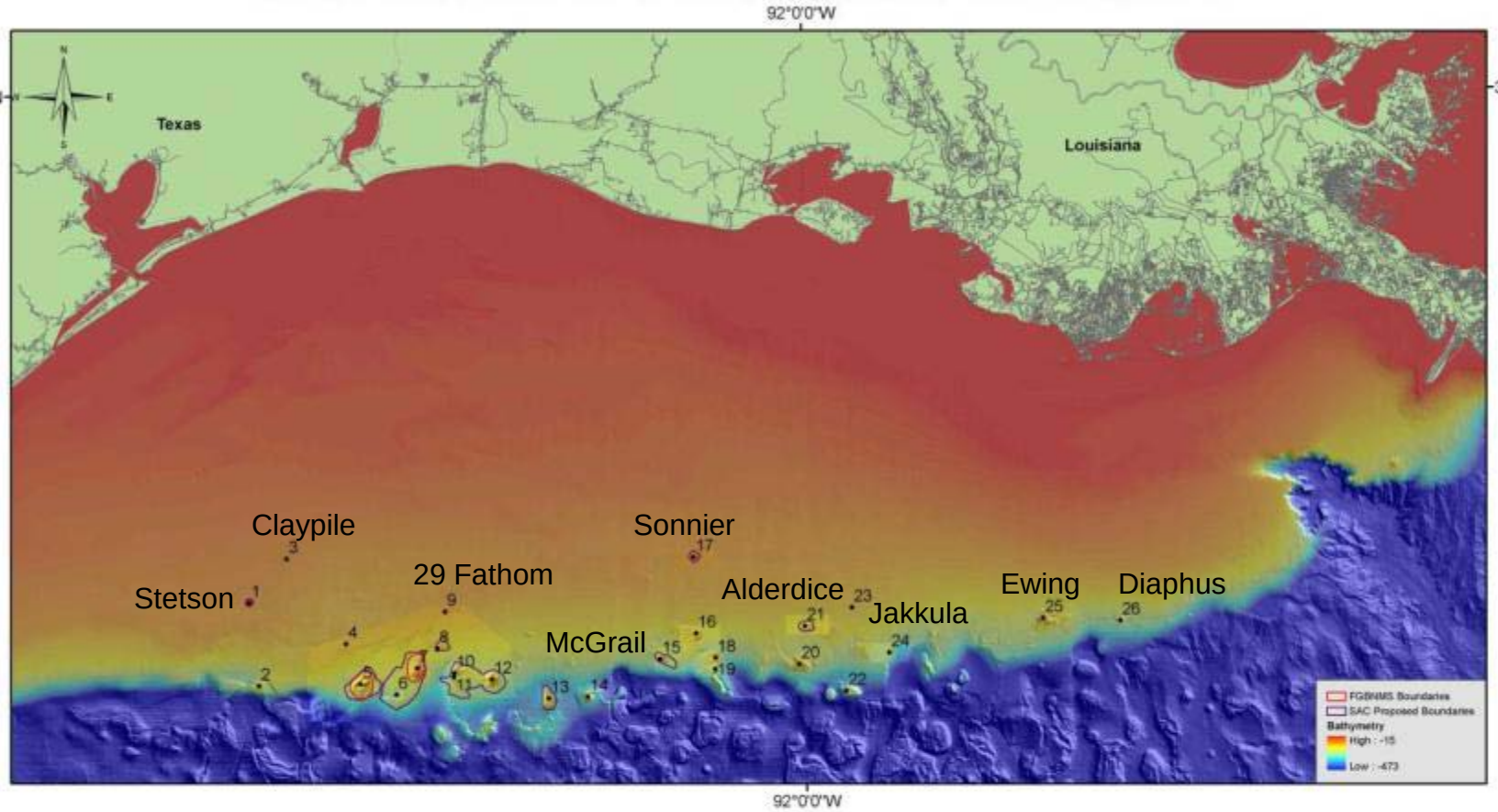
Reefs and Banks in the Northwestern Gulf Of Mexico



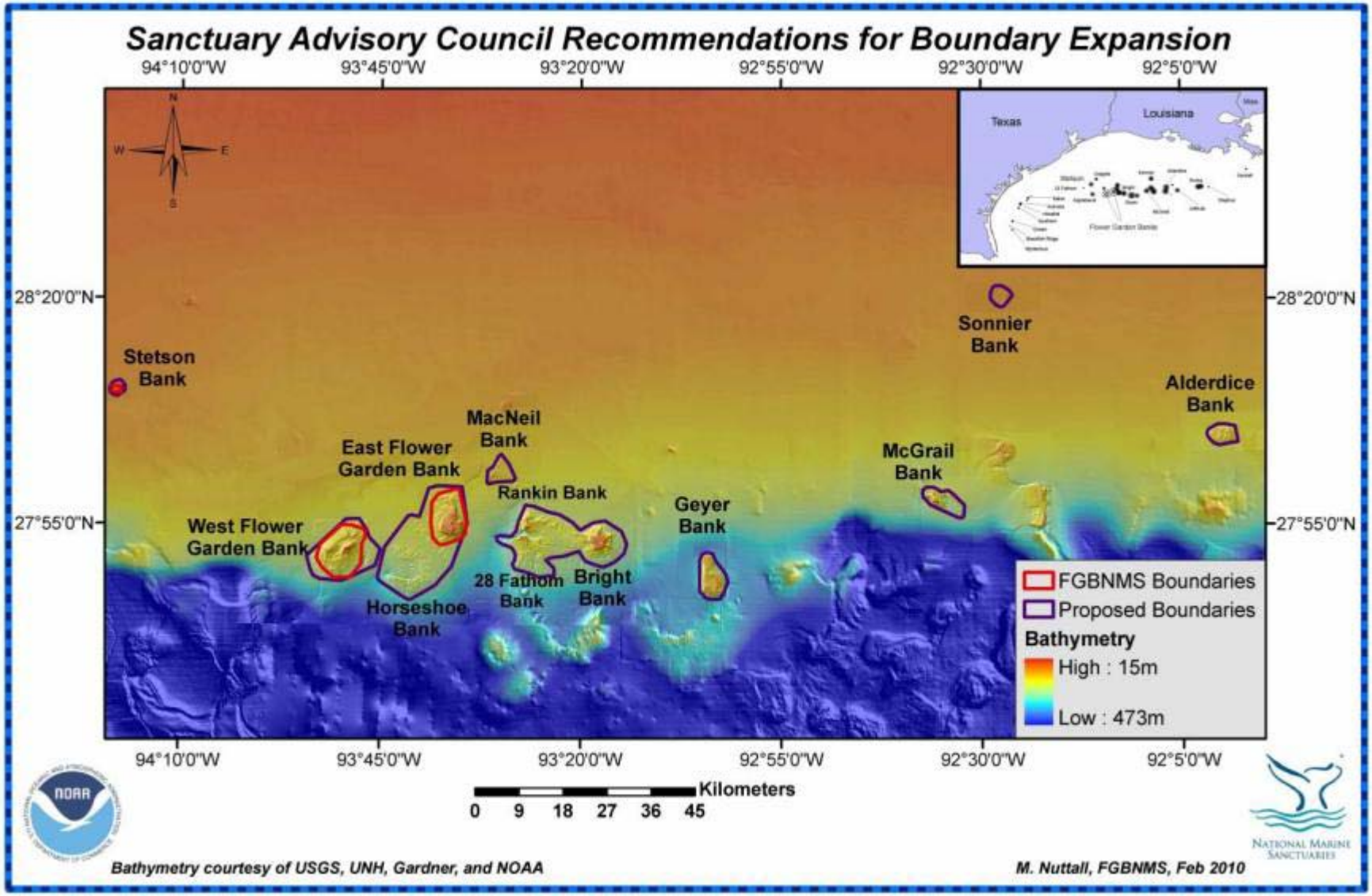
1. Stetson Bank, 2. Applebaum Bank, 3. Claypile Bank, 4. Coffee Lump Bank, 5. West Flower Garden Bank, 6. Horseshoe Bank, 7. East Flower Garden Bank, 8. MacNeil Bank, 9. 29 Fathom Bank, 10. Rankin Bank, 11. 28 Fathom Bank, 12. Bright Bank, 13. Geyer Bank, 14. Elvers Bank, 15. McGrail Bank, 16. Bouma Bank, 17. Sonnier Bank, 18. Rezak Bank, 19. Sidner Bank, 20. Parker Bank, 21. Alderdice Bank, 22. Sweet Bank, 23. Fishnet Bank, 24. Jakkula Bank, 25. Ewing Bank, 26. Diaphus Bank,

0 30 60 90 120 150 Kilometers

Bathymetry courtesy of USGS, UNH, Gardner and NOAA

M. Nuttall, FGBNMS, July 2010

NATIONAL MARINE SANCTUARIES


Sanctuary Advisory Council Recommendations for Boundary Expansion
94°10'0"W
93°45'0"W
93°20'0"W
92°55'0"W
92°30'0"W
92°5'0"W
28°20'0"N
27°55'0"N
N
S
E
W
Texas
Louisiana
Stetson Bank
Sonnier Bank
Alderdice Bank
MacNeil Bank
East Flower Garden Bank
Rankin Bank
McGrail Bank
Geyer Bank
West Flower Garden Bank
28 Fathom Bank
Bright Bank
Horseshoe Bank
FGBNMS Boundaries
Proposed Boundaries
Bathymetry
High : 15m
Low : 473m
Kilometers
0 9 18 27 36 45
NOAA
National Marine Sanctuaries
Bathymetry courtesy of USGS, UNH, Gardner, and NOAA
M. Nuttall, FGBNMS, Feb 2010

Boundary Expansion Working Group Ranking Criteria

Area or Bank	Zone Priority Index	Structural Connectivity Index	Biological Connectivity	Threat Index	Public and Sanctuary priority	Overall ranking	Distance from FGBNMS miles	Nearest Neighbor Distance (km)	Nearest Neighbor
Stetson Ring	3	3	3	3	3	12	0	23.3	Claypile
McGrail	3	1	2	3	3	11	59.4	15.8	Bouma
Geyer	3	1	2	3	3	11	31	18.25	Elvers
Bright	3	2	2	3	3	11	17	14.8	Rankin
Sonnier	3	1	1	3	3	10	74	29.8	Bouma
Horseshoe reef - b/n banks	2	2	3	2	3	10	7	9.5	E&W Bank
Alderdice	3	1	2	2	2.5	9.5	97	15.7	Diaphus
Rezak	1	1	3	1	2	7	73	5.9	Sidner
Sidner	1	1	3	1	2	7	74	5.9	Rezak
Rankin	1	2	3	1	1	6	8.1	3.4	28 Fathom
28 Fathom	1	2	3	1	1	6	8	3.4	Rankin
MacNeil	1	2	3	1	1	6	5.9	8.5	EFGB
Bouma	1	1	2	1	1	5	68	11	Rezak
Jakkula	1	1	1	1	1	4	118	23.1	Sweet
Florida Middle Grounds	2	0	0	2	0	4	808	115	Madison Swanson
Pinnacles	1	0	0	1	0	2	594	219	Madison Swanson
Madison/Swanson	1	0	0	1	0	2	918	115	Florida Middle Grounds

Area or Bank	Distance from FGBNMS miles
Stetson Ring	0
McGrail	59.4
Geyer	31
Bright	17
Sonnier	74
Horseshoe reef - b/n banks	7
Alderdice	97
Rezak	73
Sidner	74
Rankin	8.1
28 Fathom	8
MacNeil	5.9
Bouma	68
Jakkula	118
Florida Middle Grounds	808
Pinnacles	594
Madison/Swanson	918

Sites selected for ranking based on scoping comments, SAC and FGBNMS input, what area to consider?

Area or Bank	Zone Priority Index
Stetson Ring	3
McGrail	3
Geyer	3
Bright	3
Sonnier	3
Horseshoe reef - b/n banks	2
Alderdice	3
Rezak	1
Sidner	1
Rankin	1
28 Fathom	1
MacNeil	1
Bouma	1
Jakkula	1
Florida Middle Grounds	2
Pinnacles	1
Madison/Swanson	1

Biological/Geological Significance/Uniqueness (Zone Priority Index)	high 3 med 2 low 1

Based upon MMS criteria and recent FGBNMS acquisition of data

Ranking Criteria for Topographic Features of the Northwest Gulf of Mexico

Priority Ranking of Biotic Zones

1=lowest priority
8=highest priority

Zone	Ranks: Degree of Reef Building	Biological Diversity	Aesthetics	Rarity	Areal Extent	Zone Priority Index (average rank)
Diploria-Montastrea-Porites	8	8	8	7	6	7.4
Madracis	7	6	6	8	8	7.0
Stephanocoenia	6	5	5	6	7	5.8
Algal-Sponge	5	7	4	5	4	5.0
Millepora	4	4	7	4	5	4.8
Antipatharian	3	3	3	3	3	3.0
Nepheloid	2	1	2	2	2	1.8
Surrounding Mud-bottom	1	2	1	1	1	1.2

Legend

Degree of Reef Building:	Ranking of relative abundance of carbonate substrate produced per unit area (8=greatest)
Biological Diversity:	Ranking of apparent relative biological diversity of zones (8=highest diversity)
Aesthetics:	with concern for "visual appeal" and "quality" of the benthic communities (8=highest value)
Rarity:	Ranking of the apparent rarity of occurrences of zones at comparable latitudes in the Western North Atlantic (8=rarest)
Areal Extent:	Inverse ranking of zones in terms of area of sea bottom occuppied in northwestern Gulf of Mexico (8=least area)
Zone Priority Index:	Average of all ranks for each zone

Priority Ratings For Zones on Each Bank

Banks and Features	Zones and Zone Priority Indices								Ranking Criteria									
									Attributes					Threats		Other Uses		
	DNP	Madracis	Steph	Alg-Sp	Millep	Antipath	Neph	Mud										
East Flower Garden	7.4	7	5.8	5		3	1.8	1.2	31.2	x	x	x	x	x	x	x	x	x
West Flower Garden	7.4	7	5.8	5		3	1.8	1.2	31.2			x	x	x	x	x	x	x
18 Fathom			5.8	5		3	1.8	1.2	16.8									
Bright			5.8	5		3	1.8	1.2	16.8	x		x		x		x		x
Geyer				5	4.8	3	1.8	1.2	15.8									
Elvers				5		3	1.8	1.2	11									
28 Fathom				5		3	1.8	1.2	11									
Alderdice				5		3	1.8	1.2	11	x								
Jakkula				5		3	1.8	1.2	11									
Ewing				5		3	1.8	1.2	11									
Parker				5		3	1.8	1.2	11									
Rezak-Sidner				5		3	1.8	1.2	11									
Bouma				5		3	1.8	1.2	11									
Sonnier					4.8		1.8	1.2	7.8	x	x	x				x	x	x
Stetson					4.8		1.8	1.2	7.8	x	x	x		x	x	x	x	x
Claypile					4.8		1.8	1.2	7.8					x				
Fishnet						3	1.8	1.2	6									
Diaphus						3	1.8	1.2	6									
Sacket						3	1.8	1.2	6									
32 Fathom						3	1.8	1.2	6									
Applebaum						3	1.8	1.2	6									
Coffee Lump						3	1.8	1.2	6									
Southern						3	1.8	1.2	6									
North Hospital						3	1.8	1.2	6									
Hospital Rock						3	1.8	1.2	6									
Baker						3	1.8	1.2	6									
South Baker						3	1.8	1.2	6									
Aransas						3	1.8	1.2	6									
Dream						3	1.8	1.2	6									
Paleoshoreline Rises						3	1.8	1.2	6				?					
Blackfish							1.8	1.2	3									
Mysterious							1.8	1.2	3									
Big Adam							1.8	1.2	3									
South Adam							1.8	1.2	3									
Mud Volcanoes							1.8	1.2	3				x					
Paleoshorelines							1.8	1.2	3				?					

Connectivity to current FGBNMS features

Area or Bank	Structural Connectivity Index
Stetson Ring	3
McGrail	1
Geyer	1
Bright	2
Sonnier	1
Horseshoe reef - b/n banks	2
Alderdice	1
Rezak	1
Sidner	1
Rankin	2
28 Fathom	2
MacNeil	2
Bouma	1
Jakkula	1
Florida Middle Grounds	0
Pinnacles	0
Madison/Swanson	0

Connectivity: Contiguous 3

Connected 2

In geographic region 1

Biological connectivity - e.g. larval dispersal, pelagic movements

Area or Bank	Biological Connectivity	Nearest Neighbor Distance (km)	Nearest Neighbor
Stetson Ring	3	23.3	Claypile
McGrail	2	15.8	Bouma
Geyer	2	18.25	Elvers
Bright	2	14.8	Rankin
Sonnier	1	29.8	Bouma
Horseshoe reef - b/n banks	3	9.5	E&W Bank
Alderdice	2	15.7	Diaphus
Rezak	3	5.9	Sidner
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Rankin	3	3.4	28 Fathom
28 Fathom	3	3.4	Rankin
MacNeil	3	8.5	EFGB
Bouma	2	11	Rezak
Jakkula	1	23.1	Sweet
Florida Middle Grounds	0	115	Madison Swanson
Pinnacles	0	219	Madison Swanson
Madison/Swanson	0	115	Florida Middle Grounds

Biological Connectivity: 0-10km 3

11-20km 2

21-30km 1

Level of threat known or perceived - e.g. users - fishing, excavation, anchoring, scuba diving

Area or Bank	Threat Index
Stetson Ring	3
McGrail	3
Geyer	3
Bright	3
Sonnier	3
Horseshoe reef - b/n banks	2
Alderdice	2
Rezak	1
Sidner	1
Rankin	1
28 Fathom	1
MacNeil	1
Bouma	1
Jakkula	1
Florida Middle Grounds	2
Pinnacles	1
Madison/Swanson	1

Threat Index:	high	3
	med	2
	low	1

Level of interest through public scoping, and sanctuary acquisition of data, to incorporate site.

Area or Bank	Public and Sanctuary priority
Stetson Ring	3
McGrail	3
Geyer	3
Bright	3
Sonnier	3
Horseshoe reef - b/n banks	3
Alderdice	2.5
Rezak	2
Sidner	2
Rankin	1
28 Fathom	1
MacNeil	1
Bouma	1
Jakkula	1
Florida Middle Grounds	0
Pinnacles	0
Madison/Swanson	0

Public and Sanctuary priorities (level of interest to incorporate site)	high 3 med 2 low 1

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