



The Louisiana Artificial Reef Program

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National Fishing Enhancement Act of 1984



National Fishing Enhancement Act of 1984

- Directed the Secretary of Commerce to develop:
 - National Artificial Reef Plan
 - NOAA Technical Memorandum, NMFS OF-6, 1985, Amended in 2007
 - Promotes responsible effective artificial reefs
 - Designed to be a dynamic working document
 - Iterates the importance of artificial reefs as:
 - Fisheries management tool
 - Involvement of state natural resource agencies
 - In state and federal waters
 - Ensure compatibility with fishery management
 - Ability to assume long-term liability



Louisiana Fishing Enhancement Act-
Act 100 of the 1986 Louisiana Legislature



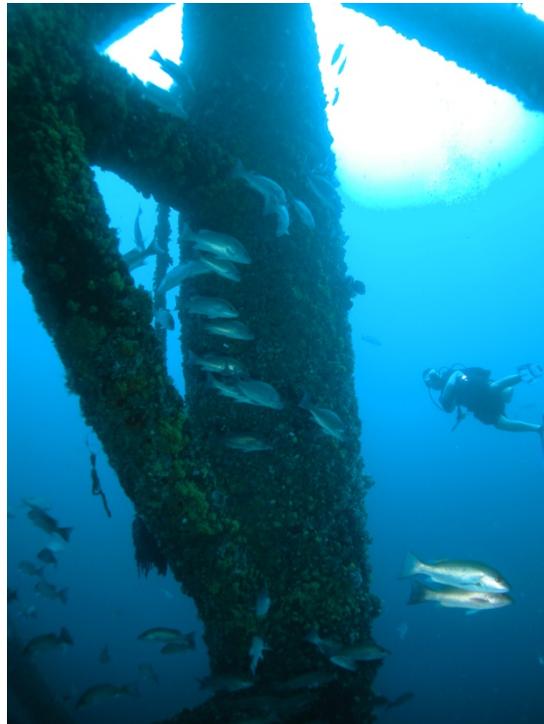
The Louisiana Fishing Enhancement Act

- Created the Artificial Reef Program within the Department of Wildlife and Fisheries
- Required an Artificial Reef Plan to be written
- Established the Artificial Reef Trust Fund
- Formed the Artificial Reef Council
 - Department of Wildlife and Fisheries
 - School of the Coast and Environment
 - Louisiana Sea Grant Program



Artificial Reef Council

- Oversees the Artificial Reef Development Program
- Charged with providing guidance on:
 - Policy
 - Site selection
 - Procedures
 - Allocation of funds



Department of Wildlife & Fisheries

- Administers and Manages the program in accordance with:
 - National Artificial Reef Plan
 - Louisiana Artificial Reef Development Plan
 - Pertinent regulations and laws
 - Budget allocation



Louisiana Artificial Reef Development Program
(Rigs-to-Reef Offshore Program)



Platform Types



Active Federal Platforms Offshore Louisiana

Gulf State		LA
Federal Water Platforms (Nov2013)		
Platform Type	Active	
0-100 ft	1594	
Caissons	584	
Well Protectors	187	
Fixed Platforms	823	
101-150 ft	257	
Caissons	17	
Well Protectors	15	
Fixed Platforms	225	
151-200 ft	185	
Caissons	3	
Well Protectors	10	
Fixed Platforms	172	
>200 ft	334	
Well Protectors	7	
Fixed Platforms	287	
Compliant Tower	3	
Mobile Production Unit	1	
Mini Tension Leg Platform	5	
Semi Submersible	9	
SPAR Platform	12	
Tension Leg Platform	10	
Grand Total	2370	



Rigs to Reef Conversions

Louisiana Only 1987-2012	
Depth Range	% Reefed
0-100 ft	0.49%
101-150 ft	21.11%
151-200 ft	35.48%
>200 ft	63.32%
Overall	9.84%



Louisiana Only 1987-2013
Total Reefed
335
Total to Shore
3165
Total Active Platforms
2370
Does not include 25 state water platforms



All Gulf States 1987-2012	
Depth Range	% Reefed
0-100 ft	1.11%
101-150 ft	18.58%
151-200 ft	39.02%
>200 ft	63.84%
Overall	11.32%

All Gulf States 1987-2012
Total Reefed
421
Total to Shore
3697
Total Active Platforms
2864
Does not include state water platforms

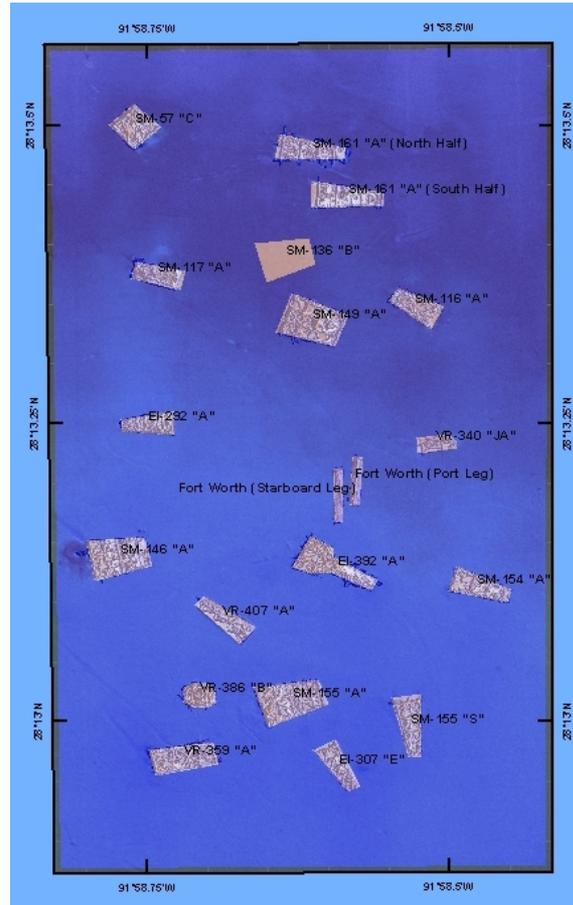


Offshore Artificial Reefs

- **72 Established Offshore Artificial Reef Sites**
 - 46 Planning Area Reefs
 - 18 Special Artificial Reef Sites
 - 8 Deepwater Reefs
 - **Structures Converted**
 - 335 platform jackets &
 - 8 drill rig legs
 - 17 oil & gas structures deployed in 2013



South Marsh Island 146 Reef

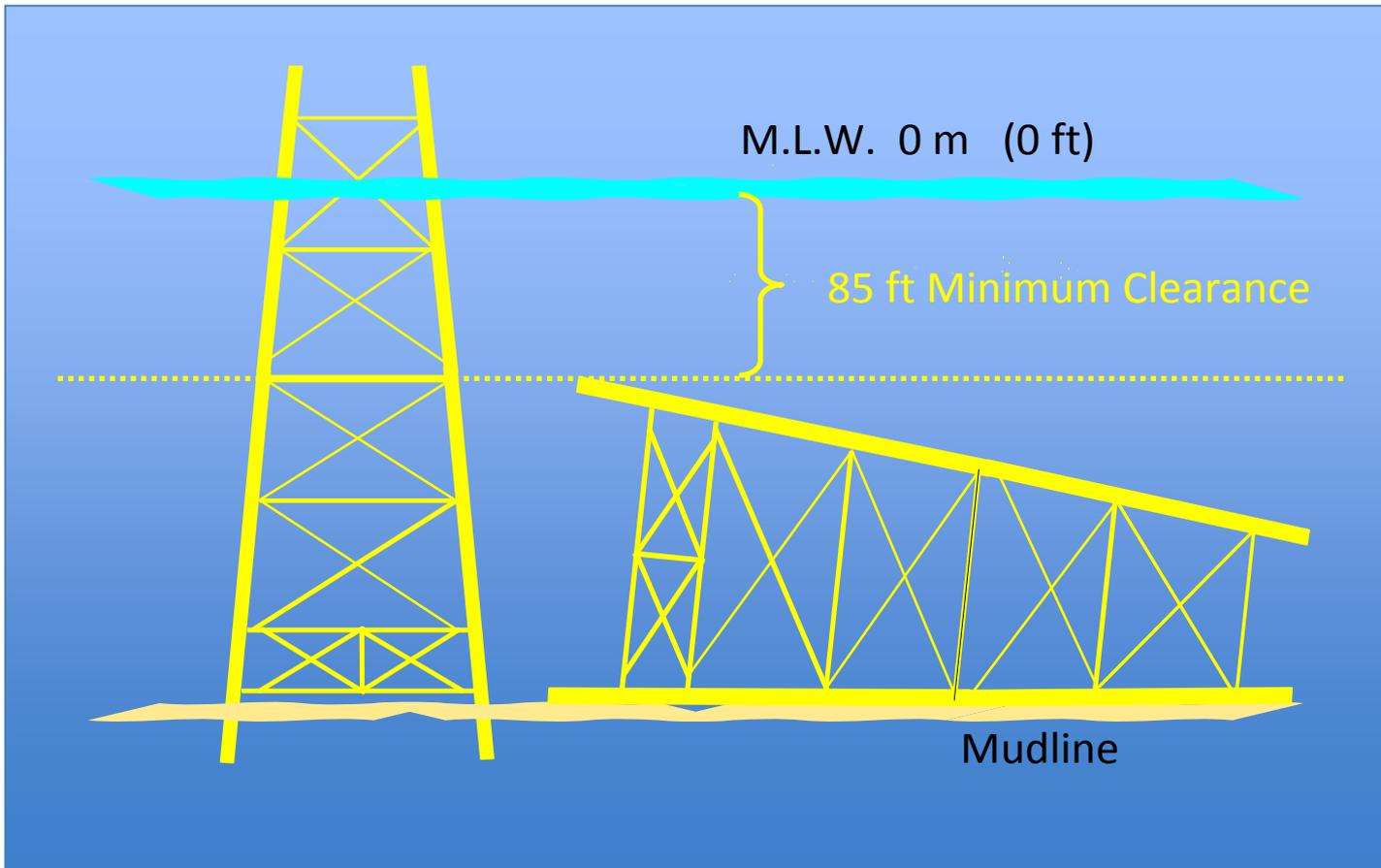


Offshore Projects

- Offshore Reefs
 - Permitted: 7
 - 2- Planning Area
 - 1- Deepwater
 - 4- SARS
- Platforms for R2R
 - Total 74
 - 48 permitted
 - 26 in permit process



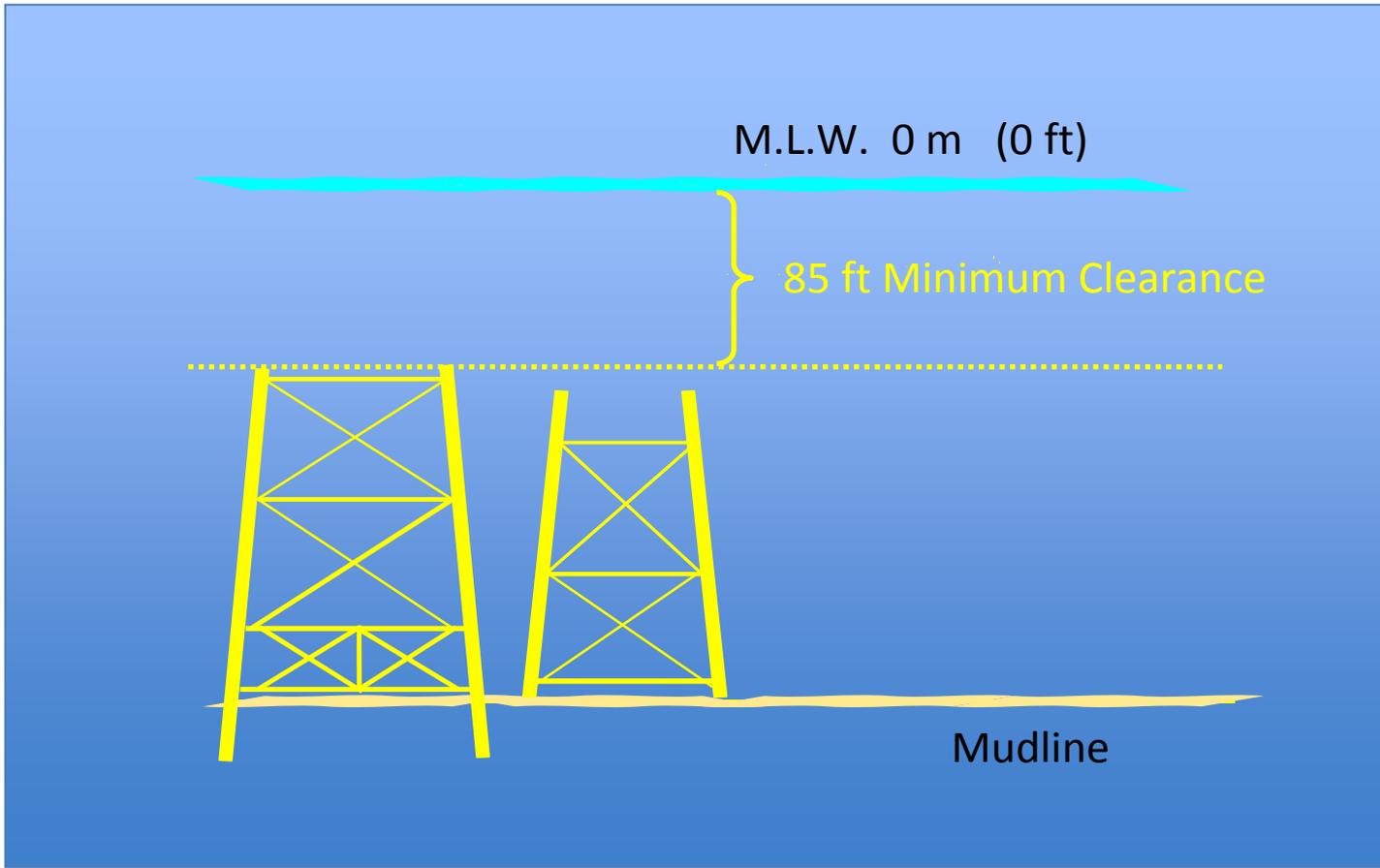
Tow or Topple in place



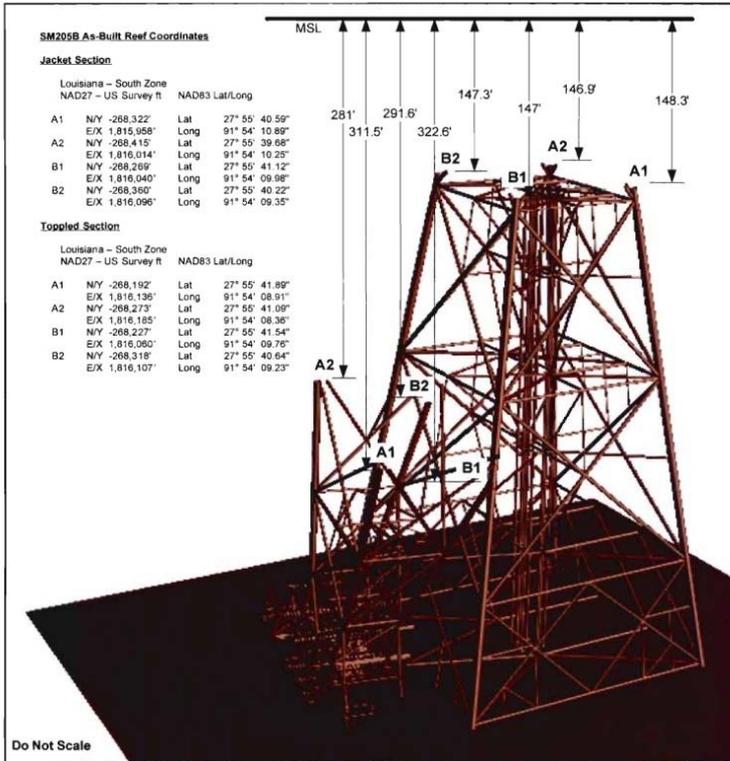
MC-63 "B" toppled at South Pass 89 Reef



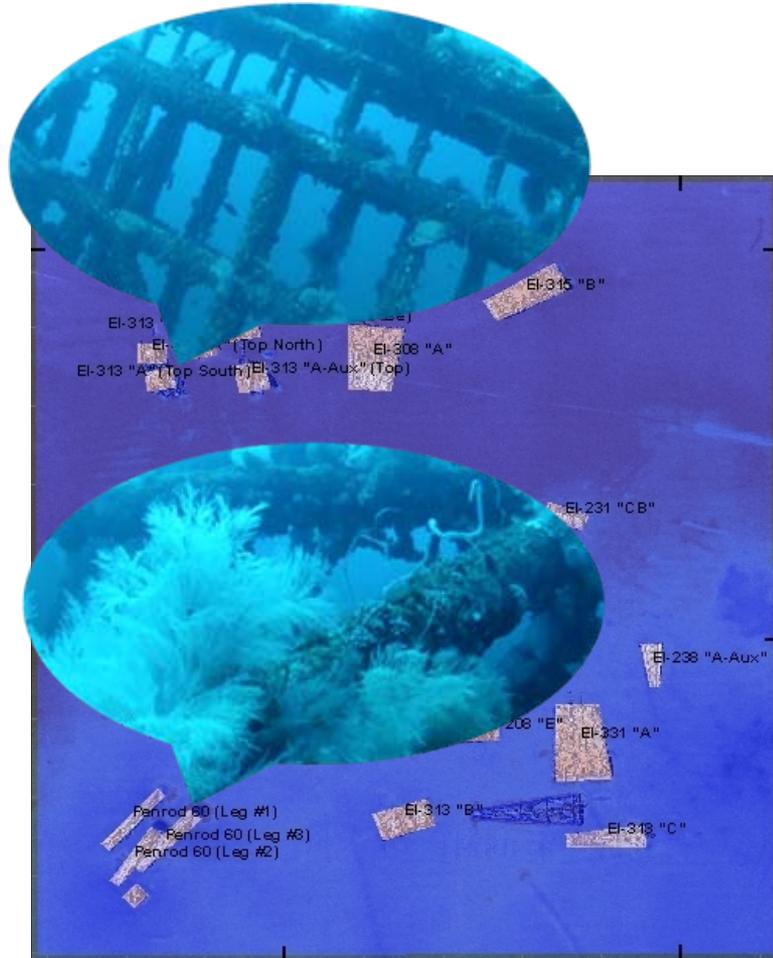
Partial Removal



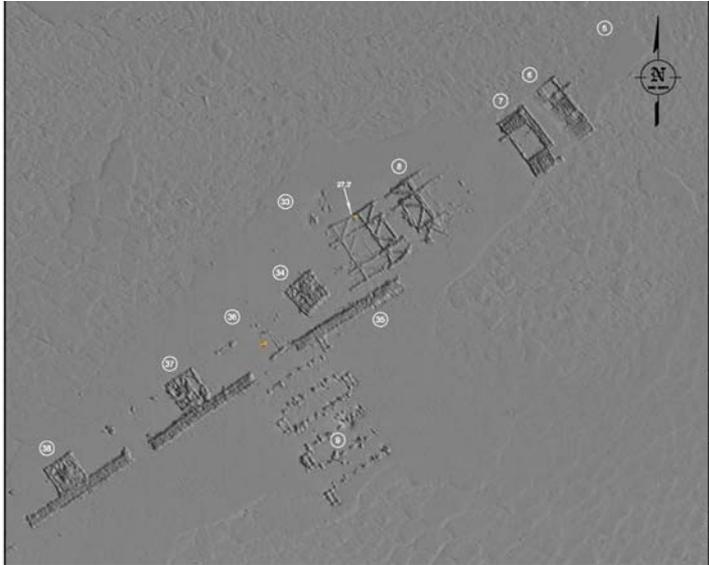
Rigs to Reefs



Eugene Island 313 Reef

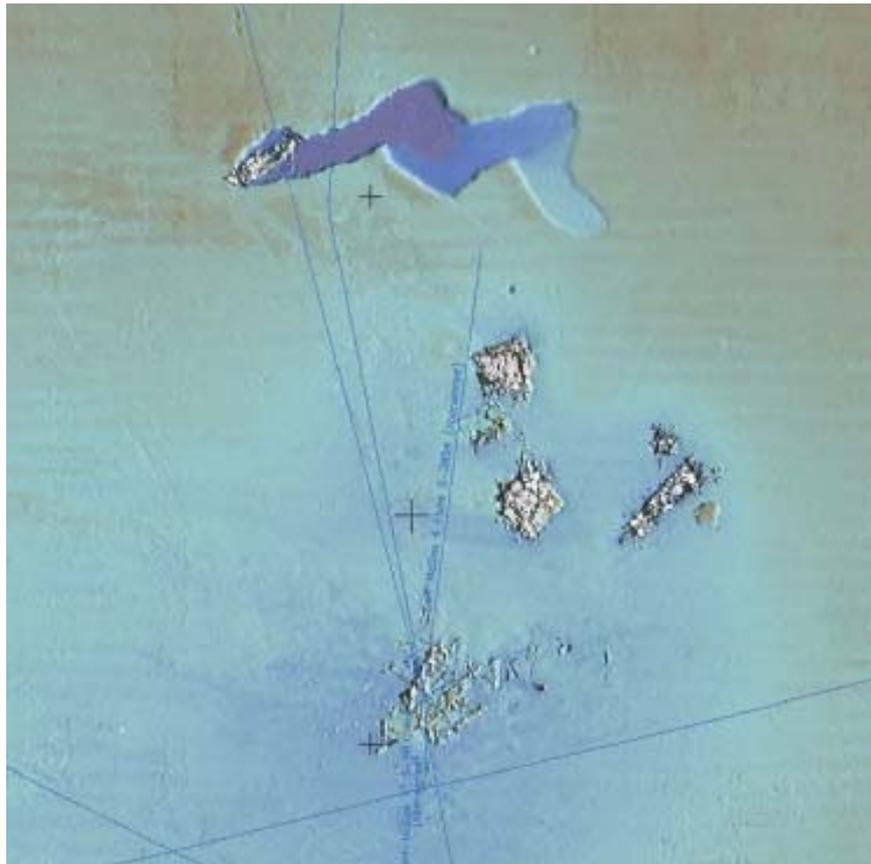


Grand Isle Sulphur Mine



Ship Shoal 230 Reef

- Multibeam image:
 - Platform Jackets
 - SS-230 "A"
 - SS-225 "C"
 - SS-242 "C"
 - Offshore Tug
 - M/V Hercules



Louisiana Artificial Reef Development Program (Inshore Reef Program)



Inshore Artificial Reefs

- 31 inshore reefs
- Low-profile reefs
- Materials
 - Shell
 - Limestone
 - Reef Balls
 - Bridge Rubble



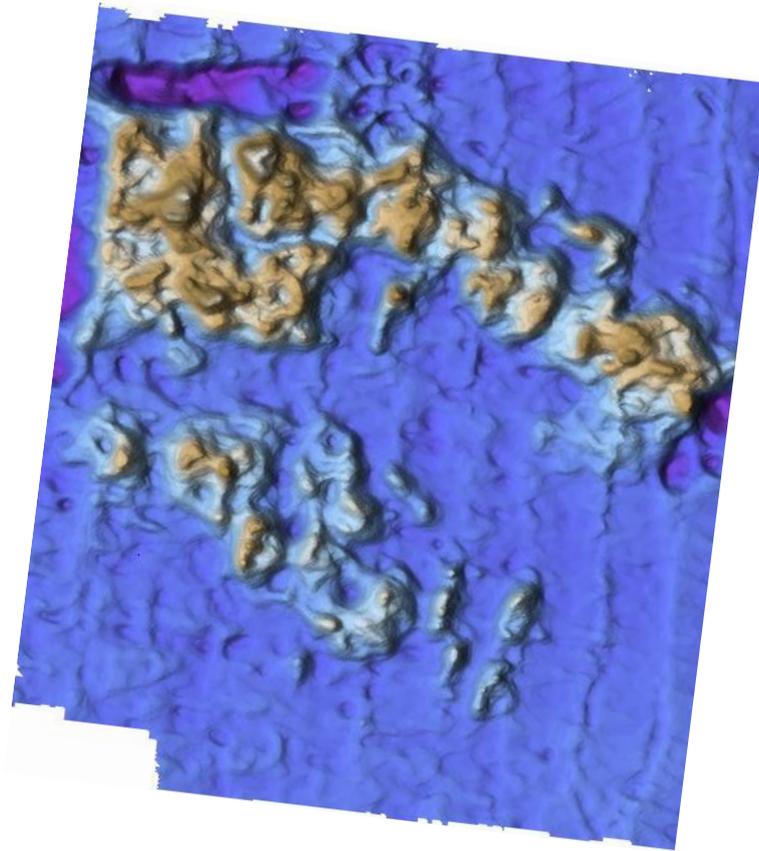
Twin Spans Project



Twin Spans Project

South Twin Span Reef

- Multi-beam imagery of completed reef
- I-10 Bridge Rubble



Independence Island Project





The Louisiana Artificial Reef Program

Existing SARS Criteria

- Qualifying criteria (must meet one or more of the following):
 - Historical or biological significance
 - Cooperative effort with LARP
 - Contains ship wrecks and other derelicts
 - Integral part of LARP or demonstration project



Existing SARS Criteria

- Mandatory criteria (must meet all of the following):
 - Benefit commercial or recreational fishing or provide fish habitat
 - Removing material would have negative impact on fish
 - Does not pose a threat to navigation
 - Does not occupy trawlable bottom
 - Overall positive impact on other user groups
 - For every SARS created, an equal area of Planning Area will be removed (Blocks: MP-145, MP-272, MP-273, SS-228)
 - Free of hazardous material



SARS Habitat Matrix

OPERATOR	REEF SITE #PLATFORMS	WATER DEPTH (FT)	HABITAT VALUE (HV) PLATFORM EQUIVALENT	MI. TO AVAILAB LE REEF SITE		MI. TO SHORE*		CLEARANCE	TOTAL (RPI)
				1-2	3-10	11 +	1		
REEF PRIORITY INDEX (RPI)			(HV) * SUM (A + B + C) = RPI						
1. Oil & Gas, USA, Inc.	XY-123 4-8 PILES 1-4PILE	214 FT	5	2 5 mi	3 34 mi	3 115 ft	3	40	



