Gulf Coast Monitoring and Assessment Portal (GCMAP) Project/Program Information Review

This editable Portable Document Format (PDF) form has been populated with information describing the project/program,

We have included some general instructions as well as a glossary of terms to help complete the review and/or revision of this information. Once completed, the CMAP team will incorporate your edits for the project/program(s) records into the GCMAP database.

Please let us know if you have any questions regarding the process or technical issues with the PDF. We greatly appreciate your participation in the GCMAP effort.

Instructions for review:

- PDF form may be opened and edited in Adobe Acrobat Reader (free download here)
- Review program information and make revisions as necessary
- Provide missing information
- Save your edits (if any)
- If no additions or changes are needed please confirm your review and let us know that no revisions are necessary
- Return modified PDF to <u>Iacob.Howell@noaa.gov</u> or <u>Randy.Clark@noaa.gov</u> along with any additional comments

Reviewer feedback:

Please specify one of the following options in the return email:

- 1. *Return with no changes necessary*Your program information will be considered final.
- 2. Return includes updates
 Your program information will be considered final once comments (if applicable) or edits are addressed.

Note: In the event that we do not receive a response from you after a follow up, then we will consider the current entry for the project/program as final.

If assistance is needed during this review process, please contact our GCMAP project staff at <u>Jacob.Howell@noaa.gov</u> or <u>Randy.Clark@noaa.gov</u>.

Overview

Program title

Provide the name of the program/project. Please spell out any acronyms.

Website URL

Please provide website link(s) relevant to the program/project

Program description

Please provide an abstract or brief description of the program (i.e., who, what, when, where, and how)

| Executing agency(ies) Please provide the name of the leading agency and any partne | r agencies. |
|--|---|
| | |
| | |
| | |
| | |
| | |
| Executing agency type(s) Select all that apply. | |
| □ Federal | \square Non-Governmental Organization (NGO) |
| □ State | Consortium |
| ☐ Regional | ☐ International |
| □ Local □ Private | ☐ Academic ☐ Tribal |
| □ Filivate | Li Ilibai |
| Funding agency(ies) Agency(ies) or organization(s) funding the program. Please list | all. |
| | |
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| | |
| Funding source(s) | |
| Funding source(s) for the program (i.e., Grant, legislation, etc) | |
| | |
| | |
| | |
| Funding amount | |
| Total funds allocated to the program | |

Point of Contact

| Tome of Contact |
|--|
| Please provide or correct the below information for the primary point of contact for this program/project. |
| Name |
| Office name |
| Phone number (XXX-XXXX Ext. XXX) |
| Email address |
| Job title |
| Timeline |
| Status Is the monitoring/data collection currently active or inactive? Please select one. Active Inactive |
| Start date What is the start date of data collection? (YYYY or MM/DD/YYYY if possible) |
| End date What is the end date of data collection? (YYYY or MM/DD/YYYY if possible) |
| |

Program Type

Does this program incorporate volunteer or citizen science? Please select one.

Yes

No

Habitat types—and associated aquatic settings

Please select all habitat type-aquatic setting pairs which fall within the extent of the program/project.

AQUATIC SETTING

| HABITAT TYPE | Upland | Riverine | Palustrine | Lacustrine | Estuarine | Marine nearshore (<30 m) | Marine offshore (30–200 m) | Marine oceanic (>200 m) |
|---|--------|----------|------------|------------|-----------|--------------------------------|----------------------------------|-------------------------------|
| Water column (Groundwater) | | | | | | | | |
| Oyster/bivalve bed (Oysters, mussels) | | | | | | | | |
| Emergent marsh (Fresh marsh, saline marsh) | | | | | | | | |
| Forest (Swamp, upland forest, riverine forest) | | | | | | | | |
| Shrub scrub/Grassland | | | | | | | | |
| Beach/dune | | | | | | | | |
| Barrier island | | | | | | | | |
| Mangrove | | | | | | | | |
| Tidal flat | | | | | | | | |
| Hard/Rock bottom | | | | | | | | |
| Coral reef | | | | | | | | |
| Soft bottom | | | | | | | | |
| SAV (Seagrass bed, benthic macroalgae) | | | | | | | | |
| Sargassum/floating macroalgae | | | | | | | | |
| Deep sea benthic communities | | | | | | | | |
| Artificial reef | | | | | | | | |
| Urban | | | | | | | | |
| Agriculture | | | | | | | | |
| Karst/barren (Cave systems, barren, sinkhole, outcrop communities) | | | | | | | | |

Accessibility Are the data accessible? Please select one. Web accessible Send upon request Not accessible Data URL If data are accessible, please provide the URL or contact info for the data source. Are the data available in a machine-readable format? Please select one. Yes No Is metadata available? Please select one. Yes No Metadata standard What metadata standard format is used? Select all that apply. ☐ FGDC (CSDGM) ☐ Other

Metadata source

If metadata are available on the web, please provide a URL.

Publications

Provide a citation/link to any relevant publication(s) (or a link to publications page)

| P | roc | ced | ures | and | QA |
|---|-----|-----|------|-----|----|
| | | | | | |

Does the program have documented collection procedures for the majority of parameters? Please select one.

Yes

No

Collection procedures URL

If documentation is available on the web, please provide a link to the website. If it is not available on the web, could you share the file with us?

Does the program have documented analytical procedures for the majority of parameters? Please select one.

Yes

No

Analytical procedures URL

If documentation is available on the web, please provide a link to the website. If it is not available on the web, could you share the file with us?

Does the program have a Quality Assurance (QA) protocol? Please select one.

Yes

No

QA protocol URL

If documentation is available on the web, please provide a link to the website. If it is not available on the web, could you share the file with us?

Water Quality

| Please select all parameters from the follo | owing list collected within this program. Se | elect all that apply. |
|---|--|----------------------------------|
| □ Nutrients | □ Pathogens | \square Field parameters |
| ☐ Total nitrogen | ☐ Escherichia coli | \square Conductance (salinity) |
| ☐ Nitrite | ☐ Enterococcus | \square Water temperature |
| ☐ Nitrate | ☐ Total coliforms | ☐ Turbidity |
| ☐ Nitrite + Nitrate | ☐ Giardia | □ рН |
| ☐ Ammonia | ☐ Cryptosporidium | ☐ Dissolved oxygen |
| ☐ Ammonia + organic nitrogen | ☐ Vibrio | ☐ Currents |
| \square Total phosphorus | ☐ Fecal coliforms | ☐ Water level |
| \square Soluble phosphorus | ☐ Sediment | \square Light attenuation |
| ☐ Phosphate | \square Suspended sediment | ☐ Carbon |
| ☐ Orthophosphate | concentration | \square Organic carbon |
| ☐ Silicate | \square Total suspended solids | (Total organic carbon, |
| \square Harmful algal bloom | ☐ Mercury | dissolved organic carbon) |
| indicators | ☐ Total mercury | \square Polycyclic aromatic |
| ☐ Cyanobacteria | ☐ Methylmercury | hydrocarbons (PAHs) |
| \square Algal toxins (Domoic acid, | ☐ Freshwater inflow | ☐ Aquatic primary producers |
| brevetoxins, microcystin, | ☐ Discharge | ☐ Phytoplankton |
| and others) | ☐ Stage | ☐ Chlorophyll |
| Select "Continuous" if data is collected in ☐ Continuous Discrete | real-time. Select all that apply. | |
| Measurement frequency Select all that apply. | | |
| ☐ More frequently than hourly | ☐ Weekly | ☐ Annually |
| ☐ Hourly | \square Twice a month | ☐ Biennially |
| \square More frequently than daily | ☐ Monthly | \square No set frequency |
| ☐ Daily | \square Every two months | ☐ Other |
| ☐ Every two days | ☐ Quarterly | |
| ☐ Twice a week | ☐ Biannually | |
| Medium What medium are the parameters measu | red in? Select all that apply. | |
| ☐ Water column | | |
| Porewater | | |
| ☐ Tissue | | |
| Are the data units clearly labeled? P Yes No | lease select one. | |

Habitat Monitoring Parameters

| Please select all parameters from the following | owing list collected within this program. S | Select all that apply. | |
|---|---|-------------------------------|--|
| ☐ Abiotic | | | |
| ☐ Substrate metrics | ☐ Coastal processes | | |
| \square Substrate composition | ☐ Vertical accretion | | |
| \square Substrate depth | ☐ Subsidence | | |
| \square Substrate geochemistry (Nu | trients, redox, | | |
| metal conc., organic pollutar | nts/content) | | |
| \square Topographic complexity | | | |
| (Rugosity, vertical relief) | | | |
| \square Sediment classification (Bulk | density, grain | | |
| size/texture, moisture levels | , soil type) | | |
| \square Submerged habitat building anim | als | | |
| ☐ Ecological metrics | ☐ Physiology/health | \square Population dynamics | |
| ☐ Abundance | ☐ Disease | ☐ Settlement/ recruitment | |
| ☐ Distribution | ☐ Bleaching | ☐ Survivorship | |
| ☐ Composition | ☐ Size (Animal height, animal | ☐ Mortality | |
| (Species/community | weight, diameter) | ☐ Spawning | |
| composition) | - | ☐ Larval transport | |
| \square Cover (% cover, acreage) | | | |
| ☐ Density | | | |
| ☐ Biomass | | | |
| ☐ Plants/macroalgae | | | |
| ☐ Ecological metrics | ☐ Physiology | ☐ Population dynamics | |
| ☐ Abundance | ☐ Canopy extent/structure | ☐ Recruitment | |
| | | ☐ Survivorship | |
| ☐ Composition | ☐ Litterfall | ☐ Mortality | |
| ☐ Cover (% cover, acreage, | ☐ Size (Height, weight, | ☐ Primary production | |
| basal area) | diameter at breast | ☐ Reproductive effort | |
| ☐ Density | height (DBH)) | (Flowering, fruiting, | |
| ☐ Biomass | | seedling production) | |
| □ bioiliass | | securing production) | |
| Measurement schedule Select "Continuous" if data are collected i ☐ Continuous ☐ Discrete | n real-time. Select all that apply. | | |
| Measurement frequency | | | |
| Select all that apply. | | | |
| ☐ More frequently than hourly | ☐ Weekly | ☐ Annually | |
| ☐ Hourly | ☐ Twice a month | ☐ Biennially | |
| ☐ More frequently than daily | ☐ Monthly | ☐ No set frequency | |
| ☐ Daily | ☐ Every two months | ☐ Other | |
| ☐ Every two days | ☐ Quarterly | | |
| ☐ Twice a week | ☐ Biannually | | |

Mapping Parameters Please select all parameters from the following list collected within this program. Select all that apply. \square Multispectral imagery ☐ Area of habitat types ☐ Sea surface temperature ☐ Sea surface height ☐ Chlorophyll ☐ Reflectivity ☐ Tides ☐ Turbidity ☐ Sediment depth ☐ Land use/land cover ☐ Salinity ☐ Surficial elevation ☐ Subsidence ☐ Backscatter intensity ☐ Vertical accretion ☐ Currents ☐ Sediment grain size ☐ Water column profiling ☐ Soil type ☐ Digital photography ☐ Water temperature ☐ Hyperspectral imagery Technology Technology or tools used to collect data. Select all that apply. ☐ Multibeam sonar (MBES) ☐ Acoustic doppler current ☐ Interferometric synthetic profile (ADCP) aperture radar (IFSAR) ☐ Single beam sonar (VBES) ☐ Light detection and ☐ Real-time kinematic global ☐ Split beam echosounder (SBES) ranging (LIDAR) positioning system (RTK GPS) \square Side scan sonar (SSS) ☐ Total station ☐ Digital photography ☐ Seismic ☐ Radar ☐ Subbottom ☐ Synthetic aperture radar (SAR) Activity Please select the mapping activities which are relevant to the program/project. Select all that apply. ☐ Shoreline ☐ Bathymetry ☐ Hydrocarbon detection ☐ Inundation modeling ☐ Maritime heritage ☐ Topography \square Water column hydrodynamics ☐ Habitat classification ☐ Human use ☐ Beach renourishment ☐ Seafloor characterization ☐ Restoration ☐ Marine debris ☐ Environmental monitoring Platform type If relevant, type of platform technology or tool that was deployed. Select all that apply. ☐ Ship/small boat ☐ Remotely operated vehicle (ROV) ☐ Human (Observation ☐ Unmanned aerial vehicle (UAV) ☐ Airborne or sampling) ☐ Fixed station ☐ Autonomous underwater ☐ Satellite ☐ Mooring/buoy vehicle (AUV) ☐ Tripod ☐ Human occupied vehicle (HOV) Classification scheme If relevant, please select all that apply. Please specify any additional classification schemes used. ☐ National Vegetation ☐ NERRS Comprehensive Habitat ☐ Anderson Land Cover Classification System Classification System (NVCS) and Land Use Classification

☐ Flower Garden Banks Habitat
Classification Scheme

Forms Classification System

☐ Florida Land Use Cover and

☐ Coastal and Marine Ecological

Cowardin 1979

Classification Standard (CMECS)

System

☐ Other:

| Spatial resolution If relevant, please provide the spatial resolution of map products. If produced from scanned analog photography what was scale and dpi (if available)? |
|---|
| Temporal resolution If relevant, what is the temporal resolution of the data? Was it a single mapping event? Have there been any other year(s) mapped? |
| Dates What year(s) correspond to the map(s)? |
| Spatial Information Would you be willing to share the footprint boundary and/or sampling site/station locations (longitude/latitude coordinates) for your program/project? If so, please provide a link or share the files (SHP, KML, CSV formats preferred) via email. Alternatively, if the provided options do not work for you, a team member from our program will contact you to set up a file transfer. Yes Website/download URL: File(s) will be shared via email. |
| Would you be willing to share your program's sampling station/site locations with metadata (i.e., specifying what parameters are collected where and at what frequency)? If yes, a team member from our program will contact you. |

Baseline Assessment (Optional)

Does the program include any assessments of baseline conditions?

Yes

Yes No

No

Baseline assessment documentation

If assessment information or reports are available on the web, please provide a link to the website.

Living Marine Resources *Marine Mammals*

Parameters: Select all that apply.

Population Dynamics **Ecological Metrics** Stressors/Threat Disease Survivorship Demography Environmental Behavior Abundance Reproduction Density Strandings Bycatch/Boat Strike Mortality Movement Distribution

Diet

Survey Type

Species: Select all that apply.

SpermWhale (Physeter macrocephalus)Melon-headed Whale (Peponocephala electra)Pygmy Sperm Whale (Kogia breviceps)Bottlenose Dolphin (Tursiops truncatus)Dwarf Sperm Whale (Kogia sima)Gervais's Beaked Whale (Mesoplodon europaeus)

Short-finned Pilot Whale (*Globicephala macrorhynchus*)

Blainville's Beaked Whale (*Mesoplodon densirostris*)

Pygmy Killer Whale (Feresa attenuata)

Fraser's Dolphin (Lagenodelphis hosei)

Risso's Dolphin (Grampus griseus)

Cuvier's Beaked Whale (Ziphius cavirostris)

Sowerby's Beaked Whale (Mesoplodon bidens)

North Atlantic Right Whale (Eubalaena glacialis)

Clymene Dolphin (Stenella clymene)

Striped Dolphin (Stenella coeruleoalba)

Atlantic Spotted Dolphin (Stenella frontalis)

Pantropical Spotted Dolphin (Stenella attenuata)

Blue Whale (Balaenoptera musculus)

Fin Whale (Balaenoptera physalus)

Bryde's Whale (Balaenoptera brydei)

Sei Whale (Balaenoptera borealis)

Spinner Dolphin (Stenella longirostris)

Common Minke Whale (Balaenoptera acutorostrata)

Rough-toothed Dolphin (Steno bredanensis) Rice's Whale (Balaenoptera ricei)

Orca (Orcinus orca) Humpback Whale (Megaptera novaeangliae)
False Killer Whale (Pseudorca crassidens) West Indian Manatee (Trichechus manatus)

Measurement Schedule: Select "Continuous" if data are collected in real-time. Select all that apply.

Continuous Discrete

Measurement Frequency: Select all that apply.

More frequently than hourly Twice a month Biennially Hourly Monthly No set frequency Daily Every two months Seasonally Every two days Quarterly Decadally Twice a week Biannually Variable Weekly Annually Other

Managed Species: Select all that apply.

State Managed (Recreational/Commercial) Federally Managed (Recreational/Commercial)

Living Marine Resources Sea Turtles

Parameters: Select all that apply.

Stressors/Threat
Disease
Environmental
Strandings
Bycatch/Boat Strike

Population Dynamics
Survivorship
Reproduction/Nesting
Mortality

Ecological Metrics
Demography
Abundance
Density
Movement
Distribution
Diet

Survey Type

Species: Select all that apply.

Loggerhead Sea Turtle (Caretta caretta) Kemp's Ridley Sea Turtle (Lepidochelys kempii) Green Sea Turtle (Chelonia mydas) Hawksbill Sea Turtle (Eretmochelys imbricata) Leatherback Sea Turtle (Dermochelys coriacea)

Measurement Schedule: Select "Continuous" if data are collected in real-time. Select all that apply.

Continuous Discrete

Measurement Frequency: Select all that apply.

More frequently than hourly Twice a month Biennially Hourly Monthly No set frequency Daily Every two months Seasonally Every two days Quarterly Decadally Twice a week Biannually Variable Weekly Annually Other

Managed Species: Select all that apply.

State Managed (Recreational/Commercial) Federally Managed (Recreational/Commercial)

Living Marine Resources *Birds*

Parameters: Select all that apply.

Stressors/Threat
Disease
Environmental
Bycatch

Population Dynamics
Survivorship
Reproduction/Nesting
Mortality

Ecological Metrics
Demography
Abundance
Density
Movement
Distribution
Diet
Biomass

Survey Type

Group: Select all that apply.

Land Birds Wading Birds Marsh Birds Waterfowl Raptors Shore Birds Seabirds

Measurement Schedule: Select "Continuous" if data are collected in real-time. Select all that apply.

Continuous Discrete

Measurement Frequency: Select all that apply.

More frequently than hourly Hourly Daily Every two days Twice a week Weekly Twice a month Monthly Every two months Quarterly Biannually Annually Biennially No set frequency Seasonally Decadally Variable Other

Managed Species: Select all that apply.

State Managed (Recreational/Commercial) Federally Managed (Recreational/Commercial)

Living Marine Resources Fish

Parameters: Select all that apply.

Stressors/Threat Population Dynamics Ecological Metrics

Disease Survivorship Demography Biomass
Environmental Reproduction Abundance Diet
Bycatch Mortality Density
Movement

Distribution

Survey Type

Group: Select all that apply.

Snappers

Groupers

Tuna and Mackerel

Tilefish Billifish Swordfish Elasmobranchs Drums and Sea Trout

Flatfish

Forage Fish

Sturgeon and Paddlefish Demersal - General Reef - General Pelagic - General Estuarine - General

Measurement Schedule: Select "Continuous" if data are collected in real-time. Select all that apply.

Continuous Discrete

Measurement Frequency: Select all that apply.

More frequently than hourly Twice a month Biennially Hourly Monthly No set frequency Daily Every two months Seasonally Every two days Quarterly Decadally Twice a week Biannually Variable Weekly Annually Other

Managed Species: Select all that apply.

State Managed (Recreational/Commercial) Federally Managed (Recreational/Commercial)

Living Marine Resources *Invertebrates*

Parameters: Select all that apply.

Stressors/Threat Population Dynamics Ecological Metrics
Disease Survivorship Demography
Environmental Reproduction Abundance
Bycatch Mortality Density
Movement

Distribution
Diet
Biomass

Survey Type

Group: Select all that apply.

SpongesLobsterCoralsBivalvesJelliesGastropodsNematodesSquid

Polychaetes Sea Stars Sea Urchins Sea Cucumbers

Crabs Shrimp

Measurement Schedule: Select "Continuous" if data are collected in real-time. Select all that apply.

Continuous Discrete

Measurement Frequency. Select all that apply.

Biennially Twice a month More frequently than hourly No set frequency Monthly Hourly Seasonally Every two months Daily Decadally Quarterly Every two days Variable Twice a week Biannually Other Weekly Annually

Managed Species: Select all that apply.

State Managed (Recreational/Commercial) Federally Managed (Recreational/Commercial)

Protected

Thank You!