



Gulf States Marine Fisheries Commission 2026 Request for Contractor Support

The Gulf States Marine Fisheries Commission in collaboration with the Florida Fish and Wildlife Conservation Commission (FWC) and Alabama Department of Conservation and Natural Resources (ALDCNR) is seeking contractor support on the development of two electronic data applications for the Florida State Reef Fish Survey (SRFS) and Alabama Creel (AL Creel) dockside surveys. The purpose of this project is to improve the efficiency, accuracy, and consistency of dockside data collected with the AL Creel and the SRFS. The application will modernize field data collection processes, reduce reliance on paper forms, minimize transcription errors, and streamline the flow of data from collection through final analysis and reporting.

The objective of this project is to transition AL Creel and SRFS dockside interview data collection from paper-based methods to a fully electronic tablet-based platform, with full implementation targeted by December 2027. The application will support standardized data collection, improve data quality through built-in validation and quality assurance checks, reduce manual data entry requirements, increase operational efficiency, and provide a faster turnaround for data processing, reporting, and fisheries management analyses. This application will need to be made in duplicate, one version to be used for regular data collection and one to be used for training and testing purposes. This second training and testing version should be available during the testing of the application during development, but also available in the long term to train new staff.

SCOPE OF WORK

In Scope

The contractor shall develop and implement a tablet-based dockside data collection application that includes, but is not limited to, the following components:

- Electronic collection of dockside interview data for the ADCNR/MRD AL Creel (Creel) Program and the FWC State Reef Fish Survey (SRFS). Example screenshots of the proposed SRFS tablet application and the existing AL Creel survey form are provided in Appendices A and B for reference.
- Communication with the GSMFC Assignment Tracking Application to support sampler assignment downloading to tablet application.
- Data entry, editing, and validation functionality compatible with Android operating system on Samsung tablets.
- Built-in quality assurance and quality control (QA/QC) checks to improve data accuracy and completeness during field collection.
- Completed assignment data upload via JSON to GSMFC API
- Data storage, synchronization, and export functionality that maintains compatibility with existing ADCNR/MRD and GSMFC data management processes.
- Integration with applicable GSMFC Oracle databases and data warehouse infrastructure to facilitate efficient data transfer and reporting.
- Offline data collection capabilities with synchronization functionality when internet connectivity becomes available.
- Support secure multi-user authentication and account management.
- Enabled location-based analysis and operational insights for administrative management.

- User authentication, security controls, and administrative tools necessary for application management and support.
- Development, testing, deployment, documentation, and user training necessary for successful implementation of the application.

Out of Scope

The following items are outside the scope of this project:

- Changes to existing AL Creel or SRFS survey designs.
- Modifications to the current sampling framework or assignment selection procedures.
- Redesign or modification of existing estimation methodologies, weighting procedures, or statistical analyses.
- Changes to fisheries management regulations, reporting requirements, or program objectives unrelated to electronic data collection.

DATA REQUIREMENTS

The application shall support the collection, storage, editing, validation, and export of all data elements currently required for ADCNR/MRD AL Creel and FWC SRFS dockside interviews. The application shall maintain compatibility with existing data standards utilized by both programs.

Required data elements are summarized in Tables 4.1 through 4.6 and include, but are not limited to, assignment information, interview details, site information, vessel and angler characteristics, fishing activity, catch and release data, biological measurements, and quality assurance/quality control fields necessary for survey administration and data analysis.

4.1 Dockside Summary Data (AL Creel)

Name	Type	Length	Format	Description
id	Long Integer	4		Access assigned ID upon entry into database
sampler_id	Long Integer	4		Identification code of sampler
year1	Short Text	4\$		Year of Interview
month1	Short Text	2\$		Month of Interview
day1	Short Text	2\$		Day of Interview
control	Short Text	4\$		A unique 4-digit number issued with each drawn assignment
time_block	Short Text	2\$		Time period assignment is to be conducted (8am-2pm is considered A.M. and 1400-sunset is considered P.M.)
site	Short Text	4\$		Four-character code of site where interviews were collected (matches APAIS site codes)
status	Short Text	2\$		Assignment status indicating complete or incomplete (1 or 2).
comment	Short Text	2\$		Two-digit code associated with the reason for leaving the sampling site before the end of the six-hour assignment time block, or the end of sampling time.
start1	Long Integer	4		Military time when sampler leaves assigned site.
end1	Long Integer	4		Military time when sampler returns to assigned site.
start2	Long Integer	4		Military time when sampler leaves assigned site.
end2	Long Integer	4		Military time when sampler returns to assigned site.
start3	Long Integer	4		Military time when sampler leaves assigned site.
end3	Long Integer	4		Military time when sampler returns to assigned site.
start4	Long Integer	4		Military time when sampler leaves assigned site.
end4	Long Integer	4		Military time when sampler returns to assigned site.
vsl_int	Long Integer	4		Total number of recreational finfishing vessels interviewed.
vsl_miss	Long Integer	4		The total number of vessels, believed to be eligible (recreationally finfishing), that left the site without being interviewed.

vsl_ref	Long Integer	4		Total number of recreational finfishing vessels interviewed who refused to participate in the survey.
vsl_non_fin	Long Integer	4		Total number of fishing vessels interviewed that were determined not to be saltwater finfishing but finfishing for freshwater finfish or shellfish.
vsl_com	Long Integer	4		Total number of fishing vessels interviewed that were used for commercial fishing purposes.
vsl_non_fish	Long Integer	4		Total number of vessels interviewed that were determined not to be fishing.
shore_int	Long Integer	4		Total number of recreational shore finfishing parties interviewed.
shore_miss	Long Integer	4		Total number of recreational shore fishing parties who are determined to have been saltwater fishing but were not interviewed.
shore_ref	Long Integer	4		Total number of recreational shore fishing parties interviewed who refused to participate in the survey.
shore_non_fin	Long Integer	4		Total number of shore fishing parties interviewed that were determined not to be saltwater finfishing but fishing for shellfish.
shore_com	Long Integer	4		Total number of shore fishing parties interviewed that were fishing for commercial purposes.
shore_non_fish	Long Integer	4		No longer collected. Total number of shore fishing parties interviewed that were determined not to be fishing.
Time Stamp	Short Text	30	\$	Time stamp assigned to records entered in database

4.2 Dockside Interview Data (AL Creel)

Name	Type	Length	Format	Description
obs_record	Long Integer	4		Access auto assigned obs_record upon entry into database
year1	Short Text	4		\$Year of Interview
month1	Short Text	2		\$Month of Interview
day1	Short Text	2		\$Day of Interview
sampler_id	Long Integer	4		Identification code of sampler
control	Short Text	4		\$Four-digit control number
site	Short Text	4		Four-character code of site where interviews were collected (matches APAIS site codes)
time	Double	8		Military time
anglers	Long Integer	4		Number of anglers on reporting vessel
mode	Short Text	1		\$Indicates the fishing activity (1= Private, 3=Shore, 4=Charter)
rec_lic	Long Integer	4		The total number of anglers who report holding a current recreational Alabama saltwater fishing license (includes lifetime license holders).
rec_grfe	Long Integer	4		The total number of anglers in the interview party that claim to have a valid GRFE.
vessel	Short Text	8		\$Vessel registration number of charter vessel.
ch_lic	Short Text	1		\$Yes or No if the captain has a license (1=Yes or 2=No)
ch_grfe	Short Text	1		\$Yes or No if the captain has a GRFE (1=Yes or 2=No)
tournament	Short Text	1		Yes or No if the party was or is participating in a tournament that day (Y=Yes or N=No)

effort	Short Text	2		Area where the majority of fishing effort was conducted (0=Inshore, or Gulf: \$15=0-3 miles, 39=3-9 miles, 99=greater than 9 miles)
bottom	Short Text	1		Structure or bottom type where most of the fishing occurred (A=artificial, P=Oil/Natural Gas Platform, N=Natural Hard Bottom, F=Flat Bottom, D=Don't \$Know)
target_1	Short Text	6		\$Primary target species (Six-digit ITIS fish identification code)
target_2	Short Text	6		\$Secondary target species (Six-digit ITIS fish identification code)
u_species (1-10)	Short Text	6		Unavailable catch reported, identified and counted by angler. Recorded by six-digit ITIS fish identification code
u_fish (1-10)	Long Integer	4		Number of fish reported caught by the party
u_type (1-10)	Short Text	1		Type code describes disposition of unavailable catch (4=used for bait/plan to use for bait, 5=other, 6=Thrown back alive/legal, 7=Thrown back dead/plan to throw, \$8=Eaten/plan to eat), 9= Eaten by predator
a_species (1-25)	Short Text	6		Available harvest of finfish that are identified and counted by the sampler. \$Recorded by six-digit ITIS fish identification code
a_fish (1-25)	Long Integer	4		Number of fish counted by sampler
Length (1-25)	Long Integer	4		Length of first measured fish matching ITIS code in field 'a_speceis1'
Weight (1-25)	Double	8		Weight of first measured fish in 'length1'
a_type (1-25)	Short Text	1		Type code describes disposition of available catch (4=used for bait/plan to use for \$bait, 5=other, 7=Thrown back dead/plan to throw, 8=Eaten/plan to eat)
Time Stamp	Short Text	32		\$Time stamp assigned to records entered in database

FWC Dockside Variables

4.3 Assignment Summary Data (SRFS)

Variable Name	Type	Format	Description	Default Value	Field Type	Visible in app?
SUMMARY_ID	Integer	1, 2, 3, etc.	Primary key		NA	No
DATE	Date	2015-05-13	Assignment date		Read only text box - prepopulated	Yes
ASSIGN_NO	Numeric(8,0)	94005	Control number (not unique)		Read only numeric - prepopulated	Yes
SITELUID	Integer	209	Internal ID for site, links to Biostat_LU_Site's ID variable		None. Backend field - prepopulated	No
SITE	Character(6)	0305	MRIP site code. 4 digit codes from MRIP sites.		Read only text box - prepopulated	Yes
SITE_NAME	Character(50)	MY BOAT RAMP	Site Name		Read only text box - prepopulated	Yes

SAMPLER_NUMBER	Numeric(1,0)	1, 2,3, 4	Number of samplers working assignment (1,2,3,4)		None. Backend Field - prepopulated	No
SAMPLER_ID1	Character(4)	5500	4-digit sampler identification number		Prepopulated text box – editable	Yes
SAMPLER_ID2	Character(4)	5500	4-digit sampler identification number		Prepopulated text box – editable	Yes
SAMPLER_ID3	Character(4)	5500	4-digit sampler identification number		Prepopulated text box – editable	Yes
SAMPLER_ID4	Character(4)	5500	4-digit sampler identification number		Prepopulated text box – editable	Yes
ARRIVAL_TIME	DateTime	2015-05-13 14:00:00.000	Time the sampler arrived	DATE	TIME ONLY input	Yes
START_TIME	DateTime	2015-05-13 14:00:00.000	Time the sampler started sampling	DATE	TIME ONLY input; Autofilled by assign_time, but editable	Yes
END_TIME	DateTime	2015-05-13 20:00:00.000	Time the sampler finished sampling	DATE	TIME ONLY input; Autofilled by assign_time, but editable	Yes
BREAK_START1	DateTime	2015-05-13 16:00:00.000	Time the first break started	DATE	TIME ONLY input	Yes
BREAK_END1	DateTime	2015-05-13 16:10:00.000	Time the first break ended	DATE	TIME ONLY input	Yes
BREAK_START2	DateTime	2015-05-13 18:30:00.000	Time the second break started	DATE	TIME ONLY input	Yes
BREAK_END2	DateTime	2015-05-13 18:35:00.000	Time the second break ended	DATE	TIME ONLY input	Yes
BREAK_START3	DateTime	2015-05-13 18:30:00.000	Time the second break started	DATE	TIME ONLY input	Yes
BREAK_END3	DateTime	2015-05-13 18:35:00.000	Time the second break ended	DATE	TIME ONLY input	Yes

NO_BREAKS	Bit	0, 1	True if no breaks were taken by sampler		Checkbox	Yes
Weather	Numeric or int	1,2 ,3,4	Sun to rain scale (1=sunny, 2=partially sunny, 3=cloudy, 4=rain) - Labels will be shown in app, numbers will be stored		Dropdown	Yes
Weather	Numeric or int	1,2 ,3,4	Wind type (1=Still, 2=light breeze, 3=windy, 4=heavy winds)		Dropdown	Yes
Reason_late_arrival	Char(1)	C, S, P, T, V, O, I	C=Closed site, S=Safety, P=Personal reasons, T=Traffic, V=Vehicle problems, O=Other, I=Interval overlap		Dropdown	Yes
Reason_early_departure	Char(1)	C, S, P, O, I, N	C=Closed site, S=Safety, P=Personal reasons, O=Other, I=Interval overlap, N=No pressure		Dropdown	Yes
ASSIGN_COMMENTS	Character(250)		Comments about the assignment		Text box/area.	Yes
SAMPLERNUMLUID	Integer	190	Internal ID used to link sampler number 1's sampler number to Biostats database's SampID variable		None. Backend field.	No
SAMPLERNUMLUID2	Integer	50	Internal ID used to link sampler number 2's sampler number to Biostats database's SampID variable		None. Backend field.	No

SAMPLERNUMLUID3	Integer	190	Internal ID used to link sampler number 1's sampler number to Biostats database's SampID variable		None. Backend field.	No
SAMPLERNUMLUID4	Integer	190	Internal ID used to link sampler number 1's sampler number to Biostats database's SampID variable		None. Backend field.	No
INT_SAMPLER_NUMBER	Numeric(1,0)	1, 2	Sampler number of sampler conducting interviews (1,2,3,4)		Read only text box - prepopulated	No
TOT_TRIP_INT	Numeric(3,0)	1, 2, 3, etc.	Number of trip interviews	0	Prepopulated text box – not editable	Yes
TOT_CATCH_INT	Numeric(3,0)	1, 2, 3, etc.	Number of catch interviews	0	Prepopulated text box – not editable	Yes
TOT_BIOSAMPLES	Numeric(3,0)	1, 2, 3, etc.	Number of biosample interviews	0	Prepopulated text box – not editable	Yes
TOT_CATCH_CARD	Numeric(3,0)	1, 2, 3, etc.	Number of catch cards handed out by samplers	0	Text box	Yes
SUPERVISOR_REGION	Character(50)	TAMPA BAY_CEDAR KEY	Region associated with supervisor		None. Backend field.	No
STAT_REGION	int	1, 2, 3...	MRIP region		None. Backend field	No

4.4 Interview Data (SRFS)

Variable Name	Type	Format	Description	Default Value	Field Type	Visible in app?
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INTERVIEW_ID	Integer	1, 2, 3, etc.	Primary key		NA	No
SUMMARY_ID	Integer	1, 2, 3, etc.	Foreign key referencing AssignmentSummary.SUMMARY_ID		NA	No
INT_NO	Integer	1, 2, 3, etc.	Interview number (unique only during an assignment)		Prepopulated increasing numeric value	Yes
INT_TIME	DateTime	2015-05-15 15:46:00.000	Interview time	Date portion should default to DATE	TIME ONLY autofill to current time, but editable, date portion should be set to SAMPLE_DATE	Yes
CONFIRM	Character(1)	C, U, R	Fishing in saltwater in private boat? C=Confirm, U=Unconfirmed, R=Refusal		Dropdown or radio button	Yes
MODE	Character(1)	P, C	Fishing mode of boat. C=Charter, P=Private		Dropdown or radio button	Yes
ANGLERS	Numeric(2,0)	1, 2, 3, etc.	Number of people fishing on boat		Numeric input	Yes
WHY_MISSED	Character(1)	W, P, L, I, O	Summary of why a boat was missed. W=Weather, P=Pressure, L=Law enforcement, I=Interview in progress, O=Other		Dropdown	Yes
GULF_ATLANTIC	Character(1)	A, G, N, U, R	Fishing in Gulf or Atlantic? G=Gulf, A=Atlantic,		Dropdown	Yes

			U=Unsure, N=No (fished inland) , R=Refuse			
EEZ	Numeric(3,0)	0 to 100	Percentage of time fishing 10 miles or more (Gulf) or 3 miles of more (Atlantic) from shore		Numeric input	Yes
CATCH_DATA	Character(1)	Y, N, R	Is there catch data? Y=Yes, N=No, or R=Refusal, values for every interview, even if terminated	No when 'Refuse & End' button is clicked before the Int-Sp page (see appendix A)	Dropdown or radio buttons	Yes
REFUSE_LO CATION	Character(15)	HARV, DISCARD, ALL, CATCH, EEZ, HARV/DISCARD	What field was refused on interview? EEZ, Catch, Discard, Harv, Harv/Discard, All above		None. Backend field	No
PRIM1	Character(50)	RED SNAPPER	Common Species Name for targeted fish		Dropdown	Yes
PRIM1	Character(50)	RED SNAPPER	Common Species Name for targeted fish		Dropdown	Yes
NO_TARGET	Bit	0, 1	No species were targeted		Checkbox	Yes
RS	Bit	0, 1	Were red snapper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
VS	Bit	0, 1	Were vermilion snapper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes

GT	Bit	0, 1	Were gray triggerfish harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
AJ	Bit	0, 1	Were amberjack harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
GAG	Bit	0, 1	Were gag grouper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
BG	Bit	0, 1	Were black grouper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
RG	Bit	0, 1	Were red grouper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
NO_SP_HAR V	Bit	0, 1	Were no SRFS species harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
YS	Bit	0, 1	Were yellowtail snapper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
MS	Bit	0, 1	Were mutton snapper harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
HOG	Bit	0, 1	Were hogfish harvested or released? 1=Yes, 0=No.	FALSE/0	Checkbox	Yes
REFUSED_S PECIES	Bit	0, 1	Angler refused to answer targeted/caug	FALSE/0	Checkbox	Yes

			ht species question			
INT_COMM ENTS	Character(250)		Comments on interview		Text box/area	Yes
ASSIGN_NO	Numeric(8,0)	93008	Control number (not unique)		None. Backend field.	No
SITE	Character(6)	0030	MRIP site code. 4 digit codes from MRIP sites.		None. Backend field.	No
INT_SAMPLER_NUMBE R	Numeric(1,0)	1, 2	Sampler number of sampler conducting interviews (1,2,3,4)		None. Backend field.	No
GEAR	Character(2)	HL, SP	Gear used (Hook and line = HL or Spearfishing = SP)		Dropdown	Yes
DESCENDING_DEVICE	Character(25)	Descender, Vent, Both, None, Refused, Unsure	Did the angler use a descending device? Descender, Vent, Both, None, Refused, Unsure		Dropdown	Yes
HR_FISH	Numeric(10,2)	5.0	Hours Fished (time between first drop and last stop) - to the nearest 1/2 hour		Numeric input	Yes
MIN_DEPTH	Numeric(5,1)	6.0	Minimum depth vessel fished (feet)		Numeric input	Yes
MAX_DEPTH	Numeric(5,1)	12.0	Maximum depth vessel fished (feet)		Numeric input	Yes
MAJ_DEPTH	Numeric(5,1)	6.0	Depth vessel fished majority of the time (feet)		Numeric input	Yes
UNDER16	Numeric(2,0)	1, 2, 3, etc.	Number of unregistered under 16		Numeric input	Yes

			anglers (all anglers under 16)			
ADULTS	Numeric(2,0)	1, 2, 3, etc.	Number of unregistered adult anglers (no SRFS designation or no saltwater license)		Numeric input	Yes
REGISTERED	Numeric(2,0)	1, 2, 3, etc.	Number of registered anglers (anglers 16 and over with the SRFS designation on their saltwater license OR over 65 and recall registering for the SRFS designation this year)		Numeric input	Yes
NOT_VERIFIED	Numeric(3,0)	1, 2, 3, etc.	Number of anglers whose registration could not be verified (have a license but it's not available or they refuse to look)		Numeric input	Yes
REFUSED	Numeric(3,0)	1, 2, 3, etc.	Number of anglers who refused to respond to the question entirely		Numeric input	Yes
MAP_AREA1	Numeric(4,0)	2782	First map area fished. Degrees in latitude and longitude (27 latitude, 82 longitude = 2782) * allow anglers to		Numeric input	Yes

			report up to 4 areas			
MAP_AREA 2	Numeric(4,0)	2782	Second map area fished. Degrees in latitude and longitude (27 latitude, 82 longitude = 2782)		Numeric input	Yes
MAP_AREA 3	Numeric(4,0)	2782	Third map area fished. Degrees in latitude and longitude (27 latitude, 82 longitude = 2782)		Numeric input	Yes
MAP_AREA 4	Numeric(4,0)	2782	Fourth map area fished. Degrees in latitude and longitude (27 latitude, 82 longitude = 2782)		Numeric input	Yes
MAP_SUBA REA1	Numeric(2,0)	44	First map area fished. Latitude and longitude minutes (rounded to nearest 10 minutes).		Numeric input	Yes
MAP_SUBA REA2	Numeric(2,0)	44	Second map area fished. Latitude and longitude minutes (rounded to nearest 10 minutes).		Numeric input	Yes
MAP_SUBA REA3	Numeric(2,0)	44	Third map area fished. Latitude and longitude minutes (rounded to nearest 10 minutes).		Numeric input	Yes

MAP_SUBAREA4	Numeric(2,0)	44	Fourth map area fished. Latitude and longitude minutes (rounded to nearest 10 minutes).		Numeric input	Yes
AREA1_TIME	Numeric(3,0)	0 to 100	Percentage of time fished in Map Area 1		Numeric input	Yes
AREA2_TIME	Numeric(3,0)	0 to 100	Percentage of time fished in Map Area 2		Numeric input	Yes
AREA3_TIME	Numeric(3,0)	0 to 100	Percentage of time fished in Map Area 3		Numeric input	Yes
AREA4_TIME	Numeric(3,0)	0 to 100	Percentage of time fished in Map Area 4		Numeric input	Yes
UNKNOWN_MAP_AREA1	Character(2)	U, R	Map area unknown? NA=Not Applicable, R=Refused, U=Unknown		Dropdown or radio buttons	Yes
ALL_ANG_4_DISCARDS	Character(1)	Y, N	All anglers interviewed for discards? Y= Yes or N=No, no values if interview is stopped		Dropdown or radio buttons	Yes
ANG_NOT_INT_4_DISCARDS	Numeric(3,0)	1, 2, 3, etc.	Number of anglers not interviewed for discards		Numeric input	Yes
NO_HARV_CATCH_TABLE	Bit	0, 1	Was there harvest on catch interview paperwork? 1=Yes, 0=No.		Checkbox	Yes
NO_DIS_CATCH_TABLE	Bit	0, 1	Were there discards on catch interview paperwork? 1=Yes, 0=No.		Checkbox	Yes

4.5 Harvest Data (SRFS)

Variable Name	Type	Format	Description	Default Value	Field Type	Visible in app?
HARVEST_ID	Integer	1, 2, 3, etc.	Primary key		NA	No
INTERVIEW_ID	Integer	1, 2, 3, etc.	Foreign key referencing InterviewData.INTERVIEW_ID		NA	No
INT_NO	Integer	1, 2, 3, etc.	Interview number for each separate sampler on assignment		Read only for sampler tracking	Yes
SAMPLE_NO	Integer	1, 2, 3, etc.	Number of harvested fish sample for each interview (Fish #)		Prepopulated. Read only.	Yes
SPECIES	Character(50)	RED SNAPPER	Common Species Name for harvested fish		Dropdown.	Yes
NO_OBS	Numeric(3,0)	1, 2, 3, etc.	Number of harvested observed fish		Numeric input	Yes
NO_REP	Numeric(3,0)	1, 2, 3, etc.	Number of harvested reported fish (unobserved)		Numeric input	Yes
ML_LENGTH	Numeric(4,0)	352	Midline length in MM		Numeric input	Yes
MAX_TL	Numeric(4,0)	372	Max total length in MM		Numeric input	Yes
WGT_KG	Numeric(5,2)	222.22	Numeric weight in kg of sampled fish		Numeric input	Yes
NO_WGT	Character(10)	GUTTED/BLED	If no weight was taken, indicate if fish was gutted or bled		Dropdown or radio buttons	Yes
OTOLITH	Character(1)	Y, N, R	Otolith collected? Y=Yes, N=No, R=Refusal		Dropdown or radio buttons	Yes
SEX	Character(1)	F, M, U, R	F=Female, M=Male, U=Undetermined, R=Refused		Dropdown or radio buttons	Yes
HARV_COMMENTS	Character(250)		Notes about the harvested fish		Text box/area	Yes
SCIENTIFIC	Character(45)	lutjanus campechanus	Scientific name of harvested fish		Automatically populated from species table. Backend Field	No
TSN	Character(6)	168853	6-digit ITIS code corresponding to species		If species dropdown is used this can be	No

					automaticall y populated from species table	
REFUSED_SAMPLING	Bit	0,1	0=Angler did not refuse sampling, 1=Angler refused any sampling		Checkbox	Yes

4.6 Discard Data (SRFS)

Variable Name	Type	Format	Description	Default Value	Field Type	Visible in app?
DISCARD_ID	Integer	1, 2, 3, etc.	Primary key		None. Backend field for table relationship	No
INTERVIEW_ID	Integer	1, 2, 3, etc.	Foreign key referencing InterviewData.INTERVIEW_ID		None. Backend field for table relationship	No
INT_NO	Integer	1, 2, 3, etc.	Interview number for each separate sampler on assignment		Read only for sampler tracking. Prepopulated from interview table.	Yes
ANGLER_NO	Integer	1, 2, 3, etc.	Number of each angler for each interview		Numeric input	Yes
SPECIES	Character(50)	RED SNAPPER	Common Species Name for discarded fish		Dropdown .	Yes
NO_REL_ALIVE	Numeric(3,0)	1, 2, 3, etc.	Number of fish released alive		Numeric input	Yes
NO_REL_MORT	Numeric(3,0)	1, 2, 3, etc.	Number of fish released dead/preyed		Numeric input	Yes
NO_BAIT	Numeric(3,0)	1, 2, 3, etc.	Number of fish used as bait		Numeric input	Yes
DISCARD_COMMENTS	Character(250)		Notes about the discards		Text box/area	Yes
TSN	Character(6)	168853	6-digit ITIS code corresponding to species		None. Backend field.	No

SCIENTIFIC	Character(45)	lutjanus campechanus	Scientific name of discarded fish		None. Backend field.	No
NO_VENTED	Integer	1, 2, 3, etc.	Estimated number of vented fish released		Numeric input	Yes
NO_DESC_DEV	Integer	1, 2, 3, etc.	Estimated number of fish released with a descending device.		Numeric input	Yes
NO_BOTH	Integer	0,1,2,3,etc.	Estimated number of fish released using venting and descending.		Numeric input	Yes
FORGOT_VENT_DESC_QUESTION	Bit	0,1	True if sampler forgot to ask if a venting/descending device was used		Checkbox	Yes

4.7 Lookup Tables & Dropdown values (SRFS)

Application will include dropdown objects that populate multiple fields at once using lookup tables:

- Species (common name, scientific name, TSN, BIOID)
- Sites (Site ID, Site Name, Region, SITELUID)
- Samplers (Sampler ID, Sampler Name, SAMPLERLUID)

The species field in the Harvest and the Discard table should display a dropdown of the species common names, which should then populate the TSN, BIOID, and scientific name on the backend. The full species list should be available on the home page of the application where a user can “favorite” commonly used species, which will show up first in the dropdown as priority species.

The sampler field in the Assignment Summary should display a dropdown of sampler IDs and names, populating the SAMPLERLUID on the backend.

The sites field should be prepopulated via the Site Assignment table with the Site ID, Site name and region.

4.8 Interactive Map (SRFS)

While not a required component of the proposed solution, an optimized application would include an interactive map that displays predefined, clickable geographic regions (e.g., polygons or designated areas). Selecting a region should automatically record the corresponding survey response for the following survey variables:

- MAP_AREA1
- MAP_AREA2
- MAP_AREA3
- MAP_AREA4
- MAP_SUBAREA1
- MAP_SUBAREA2
- MAP_SUBAREA3
- MAP_SUBAREA4

Vendors are encouraged to describe available mapping functionality and how it could be incorporated into the application.

4.9 Data Standards

- Data must be stored in a consistent format for analysis
- Species must be identified using ITIS codes
- Fishing modes must be standardized (AL only)
- Required fields must not be missing
- Validations and business rules must be applied upon save and/or assignment lock.

5. FUNCTIONAL REQUIREMENTS

5.1 Data Collection

- Application should allow user to input and save survey data without internet connection
- Data should automatically save when navigating to another page or every 30 seconds.
- Record interviews electronically using a tablet-based application
- Include built in validations and business rules executed either upon save and/or upon lock (required fields and dropdown selections)
- All dropdown fields should allow for a NULL or undo option to revert inadvertent data additions to the original settings. All checkboxes should be able to be unchecked (reverted to false).
- Automatically assign timestamps to all records

5.2 Data Validation

The system must support validations based on values stored in related tables. Cross-table validations should be executed on assignment lock.

The system must include checks for:

- Missing values
- Invalid species codes
- Out of range values
- Invalid value types (character / numeric)

Suggested validations for the SRFS are included below. The number of validations can be scaled back if they impede the processing time of the application. All validations should occur either when the data is saved or locked, based on FWRI specifications that are subject to change during testing. Data is saved incrementally in real time throughout the survey and interview process, while the assignment is “locked” by the sampler after the assignment is completed and prior to uploading data to the ATA.

Assignment Summary Data (SRFS)

FIELD	LOGIC
DATE	Required
SAMPLER_ID1	Required
SAMPLER_ID2	Required if SAMPLER_NUMBER = 2
SAMPLER_ID3	Required if SAMPLER_NUMBER = 3
SAMPLER_ID4	Required if SAMPLER_NUMBER = 4
BREAK_END1	Required if BREAK_START1 != " "
BREAK_END2	Required if BREAK_START2 != " "
BREAK_END3	Required if BREAK_START3 != " "
NO_BREAKS	Must be TRUE if no breaks are recorded

Interview Data (SRFS)

FIELD	LOGIC
INT_TIME	Required if MODE = "P"

CONFIRM	Required
MODE	Required
ANGLERS	Required
WHY_MISSED	Required
GULF_ATLANTIC	Required if MODE = "P"
EEZ	Max value of 100, Whole number, Required if GULF_ATLANTIC = "G" or "A". Required empty if GULF_ATLANTIC= "N" or "U".
PRIM1	Required if NO_TARGET is false
CATCH_DATA	Required; if N or R and a SRFS species is checked then the comment box should pop up and a comment is required.
HR_FISH	Rounded to nearest whole or half hour (end in .5 or .0), Must be </=24
MAJ_DEPTH	Whole number, must be > 0 and </=MAX_DEPTH and >/=MIN_DEPTH
MIN_DEPTH	Whole number, must be > 0 and </= MAX_DEPTH
MAX_DEPTH	Whole number, must be > 0 and >/=MIN_DEPTH
REGISTERED + UNDER16 + ADULTS + NOT_VERIFIED + REFUSED	Sum of numeric values must equal the value of ANGLERS1
MAP_AREA1, MAP_AREA2, MAP_AREA3, MAP_AREA4	Must be 4 digits (Min: 1000 Max: 9999) Change min and max values for FL areas
MAP_SUBAREA1, MAP_SUBAREA2, MAP_SUBAREA3, MAP_SUBAREA4	Must be 2 digits (Min: 10 Max: 99) Change min and max values for FL areas
AREA1_TIME + AREA2_TIME + AREA3_TIME + AREA4_TIME	Sum of numeric values must equal 100, Area_TIME values should be whole numbers.
UNKNOWN_MAP_AREA	Required if Map Areas are blank
ALL_ANG_4_DISCARDS	Required
ANG_NOT_INT_4_DISCARDS	Required if ALL_ANG_4_DISCARDS != "Y" Cannot be greater than ANGLERS
NO_HARV_CATCH_TABLE	Do not show/allow addition of HARVEST data if true***If FALSE and no Harvest records exist, prompt warning
NO_DIS_CATCH_TABLE	Do not show/allow addition of DISCARD data if true***If FALSE and no Discards records exist, prompt warning
REFUSE_LOCATION	This field should be populated based on when a user clicks the "REFUSE & END" button in the interview process and what information has not yet been entered. I.e. if "REFUSE & END" is clicked after entering Discards but before entering Harvest, REFUSE_LOCATION should be "HARV"
COMMENTS	Required if WHY_MISSED="Other"

Discard Data (SRFS)

FIELD	LOGIC
INT_NO	Automatically set by INTERVIEWID foreign key
ANGLER_NO	Required. Cannot exceed value of ANGLERS1

SPECIES	Required.
TSN, BIOID, SCIENTIFIC	Automatically set by SPECIES field via BIOSTAT_LU_TSN table
NO_REL_ALIVE	Required
NO_REL_MORT	Required
NO_BAIT	Required
NO_VENTED	Required if DESCENDING_DEVICE = “Vent” or “Both” & SPECIES field is a SRFS Species & FORGOT_VENT_DESC_QUESTION != true
NO_DES_DEV	Required if DESCENDING_DEVICE = “Descender” or “Both” & SPECIES field is a SRFS Species & FORGOT_VENT_DESC_QUESTION != true
NO_BOTH	Required if DESCENDING_DEVICE = “Both” & SPECIES field is a SRFS Species & FORGOT_VENT_DESC_QUESTION != true

Harvest Data (SRFS)

FIELD	LOGIC
INT_NO	Automatically set by INTERVIEWID foreign key
TSN, BIOID, SCIENTIFIC	Automatically set by SPECIES field via BIOSTAT_LU_TSN table
MAX_TL	Must be greater than or equal to ML_LENGTH
WGT_KG, NO_WGT	Both fields should NOT be populated
OTOLITH, SEX	Required if ML_LENGTH is not NULL
HARV_COMMENTS	Required if SPECIES is SRFS species, ML_LENGTH is NULL, AND WGT_KG and NO_WGT is NULL AND REFUSED_SAMPLING is false.

5.3 Data Integration

- Allow data in the assignment tables be automatically transferred to the application if the sampler is connected to wifi.
- Allow samplers to upload all the data collected during the assignments directly to the GSMFC server when connected to wifi.
- If a sampler is removed from an assignment in the GSMFC server, the assignment should automatically delete from the application if the sampler is connected to wifi.

6. WORKFLOW

1. Samplers download assigned schedules from GSMFC Assignment Tracking Application
2. Dockside interviews are conducted electronically
3. Validation checks are applied
4. Data are uploaded to the GSMFC Oracle cloud server
5. Managers access and download data
6. Clean dockside data are processed and uploaded by states to the recreational fisheries data warehouse

7. EXPECTED OUTPUTS

- Clean dockside dataset ready for analysis
- Reduced data cleaning time
- Less staff time dedicated to data entry and cleaning
- More staff time available for sampling or other tasks to support the SRFS survey.

8. BENEFITS

- Increased data accuracy
- Reduced data entry time
- Reduced processing time
- Improved support for reporting and decision making

9. TIMELINE

[illegible]

General Proposal Information

All proposals must be submitted to the GSMFC GulfFIN Program Manager in the following standard format:

- Applicant Name(s): Identify the name(s) of the applicant.
- Project Title: A brief statement to identify the project.
- Proposed Development Cost: Provide the total requested amount of proposal.
- Approach: List all procedures necessary to accomplish the desired tasks.
- Cost Summary (Budget): Detail all costs to be incurred in this project, including, but not limited to: personnel, equipment, supplies, indirect costs.
- Development Team: List the development team and their experience in conducting the proposed sampling

Applicants should be willing to work closely with the GSMFC and state partners. Proposals will be reviewed by a technical team with representatives from each state partner and the Commission. The technical team will make final decisions on selecting a contractor. If selected this project must comply with all federal government audit principles/procedures and the Department of Commerce Financial Assistance Standard Terms and Conditions.

The following criteria will be used to evaluate proposals:

- Qualifications of development team
- Range of similar activities performed by applicant
- Cost of proposal

All proposals must be submitted by Friday September 11, 2026. Proposals must be submitted in electronic format (.pdf preferred) and delivered to gbray@gsmfc.org. We encourage all submitters to confirm submission with a separate email. If you have any questions please contact:

Gregg Bray, GulfFIN Program Manager
Gulf States Marine Fisheries Commission
2404 Government Street
Ocean Springs, Mississippi 39564
Phone: (228) 875-5912 FAX: (228) 875-6604
E-mail: gbray@gsmfc.org

Appendix A: FWRI Application Mockup

Assignments

Date	Site Name	Site ID	Start Time	End Time	Edit
Sampler 1	Sampler 2	Sampler 3	Sampler 4		Lock
					Upload

Date	Site Name	Site ID	Start Time	End Time	Edit
Sampler 1	Sampler 2	Sampler 3	Sampler 4		Lock
					Upload

Add Assignment +

Image 1: Assignments home table to allow samplers to see all their assignments. If an assignment is not started the edit button should read “Start” instead of “Edit”. The edit button allows for free editing of the assignment. The lock button applies all the validations at lock and upload can only be completed after assignments have been locked and have no validation issues. Once the navigation pane is available (left-hand side of image 3), the “home” button should navigate here.

Assignment Summary Form

Assign Date: 09/07/2026Assign # 94073

Site # 0231Site Name: The Biggest Fish Boat Ramp

Sampler ID 16660▼Sampler ID 26661▼Sampler ID 36662▼Sampler ID 46663▼

Arrival TimeStart TimeReason Late Start▼

Totals

Catch CardsEnd TimeReason Left Early▼

InterviewsBreaks

Catch Int.BiosamplesSun▼Wind▼

Comment:

Add Intercept +

Image 2: Assignment summary data. Samplers assigned to this assignment should auto populate here. Start time will auto populate, but editable by sampler along with weather information (Sun, Wind). If a sampler

clicks ‘add assignment’ in image 1 then they should be brought to this page, but the prefilled data should be blank and editable. This is what this form should look like if a sampler starts an assignment for the first time.

Home

ASF

Int

Catch

Disc

Harv

Breaks

+ cc

Basic

EEZ

Sp

Hrs

Dep

Lic

Area

Desc

Disc

Unint

Sp

Bio

Interview - Basic

Int. #

1

Int. Time

14:32

Did you fish recreationally in saltwater for finfish today?

Was this a private fishing trip or a charter trip?

How many people on the boat fished today?

Add Missed +

Refuse & End

Add Comment +

Save & Next

Image 3: Basic interview questions. This should be the first sheet that pops up when starting an interview. If an interview ends for any reason, it should automatically start a new interview at this page. If the “Refuse & End” button is clicked at any point, there should be a popup to confirm that this button was clicked on purpose. If a sampler clicks on the “basic” button in the navigation panel, it should navigate back to this page.

Home

ASF

Int

Catch

Disc

Harv

Breaks

+ cc

Basic

EEZ

Sp

Hrs

Dep

Lic

Area

Desc

Disc

Unint

Sp

Bio

Interview - Basic

Int. #

1

Int. Time

14:32

Comments: If samplers hit the ‘add comment +’ button at any point in the interview and comment box like this one should pop up and allow for text to be entered.

Add Missed +

Refuse & End

Add Comment +

Save & Next

Image 4: An example of the comment popup box when samplers click ‘add comment +’ at any point in the interview.

Home		Int- EEZ	Int. #1
ASF	+ cc		
Int	Basic	Were you fishing in the Gulf / Atlantic Ocean today ?	
	EEZ		
	Sp		
Catch	Hrs	What percentage of your time fishing, if any, was spent more than 3/10 miles or more from shore?	
	Dep		
	Lic		
	Area		
Disc	Desc		
	Disc		
	Unint		
Harv	Sp		
	Bio		
Breaks		Add Missed + Refuse & End Add Comment + Save & Next	

Image 5: Continued interview questions. If a sampler clicks on the “EEZ” button in the navigation panel, it should navigate back to this page. If data is entered in previous pages, the associated navigation boxes should turn green.

Home		Int- <u>Sp</u>	Int. #1																												
ASF	+ cc																														
Int	Basic	What fish were you trying to catch? Primary Target Secondary Target No target ☐																													
	EEZ																														
	Sp																														
Catch	Hrs	Did anyone on the boat catch or try to catch any of the following species? <table border="0"> <tr> <td>Red Snapper</td> <td>Vermilion Snapper</td> <td>Yellowtail Snapper</td> <td>Mutton Snapper</td> <td>Hogfish</td> <td>Gray Triggerfish</td> <td>Amberjacks</td> </tr> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td></td> <td>Gag</td> <td>Black Grouper</td> <td>Red Grouper</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>☐</td> <td>☐</td> <td>☐</td> <td></td> <td></td> <td></td> </tr> </table>	Red Snapper	Vermilion Snapper	Yellowtail Snapper	Mutton Snapper	Hogfish	Gray Triggerfish	Amberjacks	☐	☐	☐	☐	☐	☐	☐		Gag	Black Grouper	Red Grouper					☐	☐	☐				
	Red Snapper		Vermilion Snapper	Yellowtail Snapper	Mutton Snapper	Hogfish	Gray Triggerfish	Amberjacks																							
	☐		☐	☐	☐	☐	☐	☐																							
			Gag	Black Grouper	Red Grouper																										
	☐	☐	☐																												
Dep																															
Lic																															
Area																															
Disc	Desc	No SRFS species caught or targeted ☐																													
	Disc																														
	Unint																														
Harv	Sp	Refuse / Language Barrier ☐	Continue to Catch Interview?																												
	Bio																														
Breaks		Add Missed + Add Comment + Save & Next																													

Image 6: Continued interview questions. If a sampler clicks on the “Sp” button in the navigation panel, it should navigate back to this page. If “N” is selected in the “Continue to Catch Interview?” dropdown, this interview is complete and the survey should start a new interview (i.e. start again at image 3).

Home		Catch - Hrs		Int. #1
ASF	+ cc			
Int	Basic	What type of fishing gear did you primarily use today – hook and line or spearguns?		
	EEZ			
	Sp			
Catch	Hrs	To the nearest half-hour, how many hours did you fish today from when your fishing gear was first dropped into the water at the first stop until gear was removed at the last fishing stop?		
	Dep			
	Lic			
	Area			
Disc	Desc			
	Disc			
	Unint			
Harv	Sp			
	Bio			
Breaks		Add Missed + Refuse & End Add Comment + Save & Next		

Image 6:

Start of the catch questions. If a sampler clicks on the “Hrs” button in the navigation panel, it should navigate back to this page.

Home		Catch - Dep		Int. #1	
ASF	+ cc				
Int	Basic	At what depth (in feet) did the majority of your fishing take place today?			
	EEZ				
	Sp				
Catch	Hrs	What was the minimum depth (in feet) where you fished today?	Min		
	Dep		What was the maximum depth (in feet) where you fished today?	Max	
	Lic				
	Area				
Disc	Desc				
	Disc				
	Unint				
Harv	Sp				
	Bio				
Breaks		Add Missed + Refuse & End Add Comment + Save & Next			

Image 7: Continuation of the catch questions. If a sampler clicks on the “Dep” button in the navigation panel, it should navigate back to this page.

Home						Int. #1
ASF	+ cc	Catch - Lic				
Int	Basic					
	EEZ					
	Sp					
Catch	Hrs	Do you have a current State Reef Fish Angler designation?				
	Dep	Not Registered				
	Lic	Registered	Youth (under 16)	Adults (over 15)	Could not Verify	Refused
	Area					
Disc	Desc					
	Disc					
	Unint					
Harv	Sp					
	Bio					
Breaks	Add Missed +		Refuse & End	Add Comment +	Save & Next	

Image 8: Continuation of the catch questions. If a sampler clicks on the “Lic” button in the navigation panel, it should navigate back to this page. In the above image “Dep” is marked as red. This is what should happen if the navigation page is used to skip sections of the interview. In this example, the sampler clicked on the “Lic” button to navigate to this page without entering any information on the “Dep” page first.

Home						Int. #1
ASF	+ cc	Catch - Area				
Int	Basic					
	EEZ					
	Sp					
Catch	Hrs					
	Dep					
	Lic					
Disc	Desc					
	Disc					
	Unint					
Harv	Sp					
	Bio					
Breaks	Add Missed +		Refuse & End	Add Comment +	Save & Next	

Please use the map to point to the area(s) where fishing took place during your trip, and please tell me, of the total time spent fishing today, what percent of time you fished in each area?

% Time 1

% Time 2

% Time 3

% Time 4

Unknown

Image 9: Continuation of the catch questions. If a sampler clicks on the “Area” button in the navigation panel, it should navigate back to this page. A navigable map, that initially focuses on the area around the sampling site, with the ability to zoom and the ability to click up to 4 fishing area boxes is preferred for this question series. Manual entry of 4 map areas and 4 map subareas as numeric values is also acceptable if a map option is not available or deemed too complicated to use in a field setting during the testing process.

Home		Disc – Disc (OPTION 2)										Int. #1
ASF	+ cc											
Int	Basic	Red Snapper	Angler	Dead	Alive	Bait	Vented	Desc	Both		Comment	
	EEZ										Comment	
	Sp											
Catch	Hrs	+										
	Dep											
	Lic											
	Area											
Disc	Desc											
	Disc											
	Unint											
Harv	Sp	Gag Grouper		Hogfish		Add Species +		By Angler				
	Bio											
Breaks		Add Missed +			Refuse Discards				Save & Next			

Image 12: Continuation of the discarding questions. This is the second data entry option for discarded species. In this option data is entered by species, with the ability to add new anglers using the green plus box. Vent, Desc, and Both boxes should only be available for data entry as described in image 10. The sampler should be able to navigate easily between species or add species using the “Add Species +” buttons. The sampler should be able to navigate back to adding discarded species by clicking the “By Angler” button, which navigates to image 11. The Comment box for both data entry options (by species or angler), should feature an “Apply to All Species” button that appends the comment to each record of the associated species.

Home		Disc – Disc (OPTION 2)										Int. #1
ASF	+ cc											
Int	Basic	Red Snapper	Angler	Dead	Alive	Bait	Vented	Desc	Both		Comment	
	EEZ										Comment	
	Sp											
Catch	Hrs	+										
	Dep											
	Lic											
	Area											
Disc	Desc											
	Disc											
	Unint											
Harv	Sp	Gag Grouper		Hogfish		Add Species +		By Angler				
	Bio											
Breaks		Add Missed +			Refuse Discards				Save & Next			

Did you forget to ask the venting and descending questions for Angler 1's Red Snapper ☐

Image 13: If a sampler tries to click “Save & Next”, the Vented, Desc, and Both data entry boxes are available (as described in image 10), and they are blank, then this popup with a checkbox entry should occur.

Home		Disc – Unint		Int. #1
ASF	+ cc			
Int	Basic	All anglers interviewed for discards? ☐		
	EEZ			
	Sp			
Catch	Hrs	If no, how many interviewed?		
	Dep			
	Lic			
	Area			
Disc	Desc			
	Disc			
	Unint			
Harv	Sp			
	Bio			
Breaks		Add Missed +	Add Comment +	Save & Next

Image 14:

Continuation of the discarding questions. If a sampler clicks on the “Unint” button in the navigation panel, it should navigate back to this page.

Home		Harvest - Sp				Int. #1																																				
ASF	+ cc																																									
Int	Basic	<table border="1"> <thead> <tr> <th>Species</th> <th>Obs</th> <th>Rep</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td>Comment</td> <td>Bio +</td> <td>Bio R</td> </tr> <tr> <td>Red Snapper</td> <td>3</td> <td>5</td> <td>Comment</td> <td>Bio +</td> <td>Bio R</td> </tr> <tr> <td>Red Grouper</td> <td>27</td> <td>325</td> <td>Comment</td> <td>Bio +</td> <td>Bio R</td> </tr> <tr> <td>Vermilion</td> <td>0</td> <td>7</td> <td>Comment</td> <td>Bio +</td> <td>Bio R</td> </tr> <tr> <td colspan="2">+</td> <td colspan="4"></td> </tr> </tbody> </table>					Species	Obs	Rep							Comment	Bio +	Bio R	Red Snapper	3	5	Comment	Bio +	Bio R	Red Grouper	27	325	Comment	Bio +	Bio R	Vermilion	0	7	Comment	Bio +	Bio R	+					
	Species						Obs	Rep																																		
									Comment	Bio +	Bio R																															
Red Snapper	3	5	Comment	Bio +	Bio R																																					
Red Grouper	27	325	Comment	Bio +	Bio R																																					
Vermilion	0	7	Comment	Bio +	Bio R																																					
+																																										
EEZ																																										
Sp																																										
Catch	Hrs																																									
	Dep																																									
	Lic																																									
	Area																																									
Disc	Desc																																									
	Disc																																									
	Unint																																									
Harv	Sp																																									
	Bio																																									
Breaks		Add Missed +	Refuse Harvest	Save & Next																																						

Image 15:

Start of the harvest questions. If a sampler clicks on the “Sp” button in the navigation panel, it should navigate back to this page. Table should autofill with new species rows when clicking the green plus button. Ideally blank rows would populate at the top of the table, as depicted. The Bio + buttons should navigate to image 16. Comment box should feature an “Apply to All Species” button that appends the comment to each record of the associated species.

Home		Harvest - Bio						Int. #1
ASF	+ cc							
Int	Basic	Species	Red Snapper	Obs	3	Rep	5	
	EEZ							
	Sp							
Catch	Hrs	#	Length (mm) ML	Max TL	Weight (kg)	Bled or Gutted?	Otolith	Sex
	Dep	1						
	Lic	2						
	Area	+						
Disc	Desc							
	Disc							
	Unint							
Harv	Sp							
	Bio							
Breaks		Add Missed +		Refuse Harvest		Save & Next		

Image 16: Continuation of the harvest questions. If a sampler clicks on the “Bio” button in the navigation panel, it should navigate back to this page. Table should autofill with new biological data rows when clicking the green plus button. Comment box should feature an “Apply to All Species” button that appends the comment to each record of the associated species. The species indicated in on the “Sp” page (image 15) should populate as buttons across the bottom so that biological data can be added for each species. If another species is clicked it should loop back to this page, but for the species in question. If the “Add Species +” button is clicked, it should navigate back to the “Sp” page (image 15) to allow for entry of additional species. The # column should auto populate with individual numbers for each fish. It should continue numbering even across species (i.e., **not** start over at one when entering data for a new species).

Home		Harvest - Bio						Int. #1
ASF	+ cc							
Int	Basic	Species	Red Snapper	Obs	3	Rep	5	
	EEZ							
	Sp							
Catch	Hrs	#	Length (mm) ML	Weight	Bled or			
	Dep	1						
	Lic	2						
	Area	+						
Disc	Desc							
	Disc							
	Unint							
Harv	Sp							
	Bio							
Breaks		Add Missed +		Refuse Harvest		Save & Next		

Image 17: Continuation of the harvest questions. If a sampler clicks the “Save & Next” button at the end of the harvest data, this question should popup before the sampler can move on.

Home					
ASF	+ cc	Breaks			
Int	Basic	Break Start 1		Break End 1	
	EEZ				
	Sp				
Catch	Hrs	Break Start 2		Break End 2	
	Dep				
	Lic				
	Area				
Disc	Desc	Break Start 3		Break End 3	
	Disc				
	Unint				
Harv	Sp	No Breaks ☐			
	Bio				
Breaks		Add Missed +	Add Comment +	Add Interview +	

Image 18: The page that should be available if a sampler clicks the “Breaks” button in the left navigation panel or the “Add Breaks+” button on the assignment summary form (shown in image 19).

Assignment Summary Form					
Assign Date: 09/07/2026		Assign # 94073			
Site # 0231		Site Name: The Biggest Fish Boat Ramp			
Sampler ID 1	6660 ▼	Sampler ID 2	6661 ▼	Sampler ID 3	6662 ▼
		Sampler ID 4	6663 ▼		
Arrival Time		10:50	Start Time	11:00	Reason Late Start ▼
Totals					
Catch Cards	10	End Time	2:00	Reason Left Early	▼
Interviews 100	Breaks 3				
Catch Int. 50	Biosamples 20	Sun	Sunny ▼	Wind	Light Breeze ▼
Comment: Very busy day, kingfish tournament, 100+ trailers			Add Intercept +	Add Break +	Save & End

Image 19: What the assignment summary form should look like after the assignment is started. The totals should auto populate using the interview data. The “Catch Cards” total should be editable but should populate as the total number of times the sampler clicked the “+ cc” button in the left navigation pane during the assignment. This page should be available if the sampler clicks on the “ASF” button at any point after the assignment has started.

Home

ASF

Int

Catch

Disc

Harv

Breaks

+ cc

Basic

EEZ

Sp

Hrs

Dep

Lic

Area

Desc

Disc

Unint

Sp

Bio

Int- EEZ

Int. #1

Int. # 2

Int. Time 14:32

Private or Charter? ☒ P ☐ C

Number of People - +

Why missed?

Save & Exit

Were you fishing in the

What percentage of you

3/10 miles or more from

Add Missed +

Refuse & End

Add Comment +

Save & Next

Image 20:

What should popup if a sampler clicks on the “Add Missed+” button at any point in the survey. If “other” is selected in why missed, a comment box should popup before the sampler can “Save & Exit”.

Interview Edits									
Int #	Time	Confirm	Mode	Anglers	Gulf Atl	EEZ	SRFS?	Catch	
1	12:21	C	P	2	N	0	Y	Y	EDIT DELETE
2	12:21	N	P	1	N	10	N	N	EDIT DELETE
3	12:22	N	P	4	N	25	Y	Y	EDIT DELETE
4	12:30	U	C	3	U	10	Y	N	EDIT DELETE
5	12:31	C	P	2	G	100	N	N	EDIT DELETE

Image 21:

This table will allow samplers to quickly navigate through interviews within an assignment. This page should be visible if samplers click the larger “Int” button in the navigation pane. The all the data collected in the “Int” section of the survey should be shown here. The edit button should navigate into the first page of the interview data for the selected interview (i.e. image 3). The delete button should delete all the data for that interview. A popup should allow the samplers to confirm that they want to delete the data before it is deleted.

Catch Edits

Interview #	
1	EDIT DELETE
5	EDIT DELETE
10	EDIT DELETE
15	EDIT DELETE
20	EDIT DELETE

Image 22:

This table will allow samplers to quickly navigate through interviews within an assignment. This page should be visible if samplers click the larger “Catch” button in the navigation pane. The interview numbers of all interviews with catch data (i.e. Continue to Catch Interview = “Y”; Image 6) should be shown here. The edit button should navigate into the first page of the catch data for the selected interview (i.e. image 6). The delete button should delete all the data for that interview after the “Continue to Catch Interview” question (including all harvest and discard data). It should also clear the data out of the “Continue to Catch Interview” question (i.e. revert this question to blank). A popup should allow the samplers to confirm that they want to delete the data before it is deleted.

Appendix B: ADCNR/MRD AL Creel Survey Forms

AL Creel Dockside Summary Form

AL Creel Assignment Summary Form

Sampler ID

Name:

Year

Month

Day

Site

Start Time

End Time

Control #

Assignment Status

(1=Complete 2=Incomplete)

Comment

A.M. = 0800-1400
P.M. = 1400-Sunset

Assignment Returning Vessel Activity Summary:

of Interviewed
Rec Fishing Vessels

of Missed Rec
Fishing Vessels

of Rec Fishing
Vessel Refusals

of Rec
Non-Finfish
Vessels

of Commercial
Fishing Vessels

of
Non-Fishing
Vessels

Assignment Shore Party Activity Summary:

of Interviewed
Rec Shore Parties

of Missed Rec
Shore Parties

of Rec Shore
Party Refusals

of Rec
Non-Finfish
Shore Parties

of Commercial
Shore Parties

of Non-Fishing
Shore Parties

Trip Tally Notes:

Comment Codes:

06 - Couldn't Find Site
08 - Asked to Leave
12 - Site Closed After Hours (time in comments)
13 - Site Closed Other (specify in comments)
14 - Site Unsafe During Sampling Period
15 - No Activity, Darkness
16 - Departed Early (severe illness, injury, other)
17 - Inclement Weather

Comments: _____

AL Creel Dockside Interview Form

Comments: