

Section 8. ACCSP Release, Discard, and Protected Species Interactions Monitoring Program

The ACCSP release, discard, and protected species interactions monitoring program will be a coastwide program (Maine through Florida) to include all living marine resources in estuarine, inshore, and offshore waters. Data should be collected from all U.S. fishing vessels leaving from and landing at east coast ports, including shore-based fishing operations. The program should be conducted throughout the year and will include commercial, recreational, and the for-hire fisheries.

The release, discard, and protected species interactions monitoring program will include quantitative and qualitative data collection components. The quantitative component includes an at-sea observer program and collection of release/discard data through the fishermen reporting system. The qualitative release, discard, and protected species interactions monitoring program will include sea turtle and marine mammal stranding networks and beach bird surveys, trend analysis, and add-ons to existing recreational and for-hire intercept and telephone surveys.

Release/discard data collected through the qualitative release/discard monitoring program and the fishermen reporting system will be used to identify and prioritize fisheries requiring collection of additional release, discard and gear configuration data through quantitative methods.

Reporting of protected species interactions and managed species data currently are the highest priorities under the ACCSP release, discard, and protected species interactions monitoring program. A Discard and Release Prioritization Committee will recommend priorities for the commercial, recreational, and the for-hire fisheries on an annual basis.

Required reporting of protected species interactions information is mandatory for the ACCSP commercial reporting system and is mandatory for the for-hire vessels which fall under the Marine Mammal Protection Act (MMPA) requirements. Reporting of protected species interactions is voluntary for recreational fishermen. Under federal statutes, incidental injury or mortality to a marine mammal during commercial fishing activities, including charter boat fisheries, must be reported within 48 hours of the end of a fishing trip, or for non-vessel fisheries, within 48 hours of occurrence.

Reporting of discards or releases through the catch and effort reporting system is strongly encouraged, although voluntary for non-protected discards or releases of other marine organisms. Any ACCSP partner may require mandatory reporting of any marine organism discard and release data, based on jurisdictional assessments or management requirements. All partners should develop outreach and fishermen training programs to improve reporting accuracy by fishermen. The ACCSP should evaluate the quality of the data and any voluntary, mandatory, and at-sea observer collection programs, at least annually.

FIGURE 8.1. Overview of the ACCSP release, discard, and protected species interactions monitoring program for commercial, for-hire, and recreational fisheries. See details on these programs in Sections 8.a through 8.c.

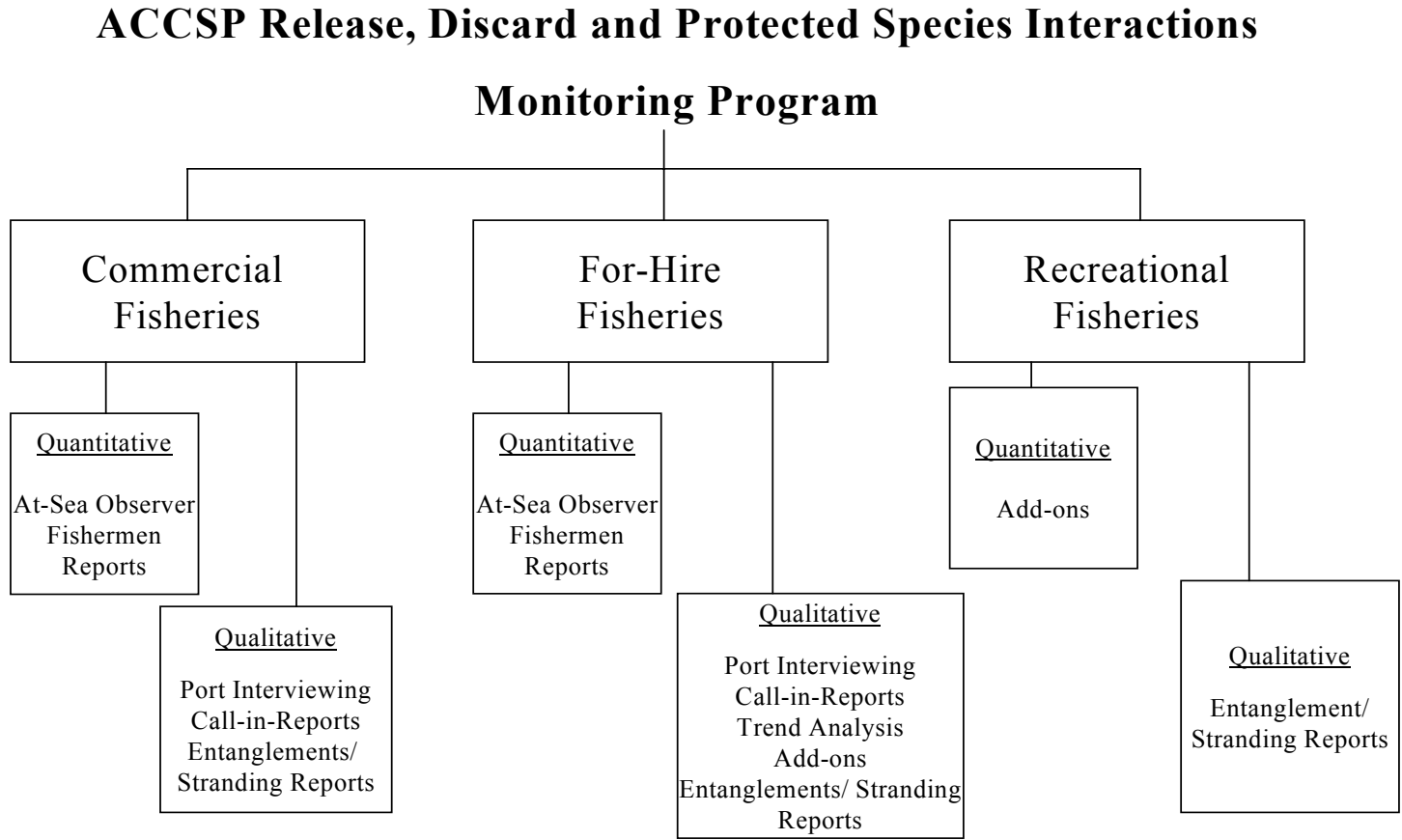
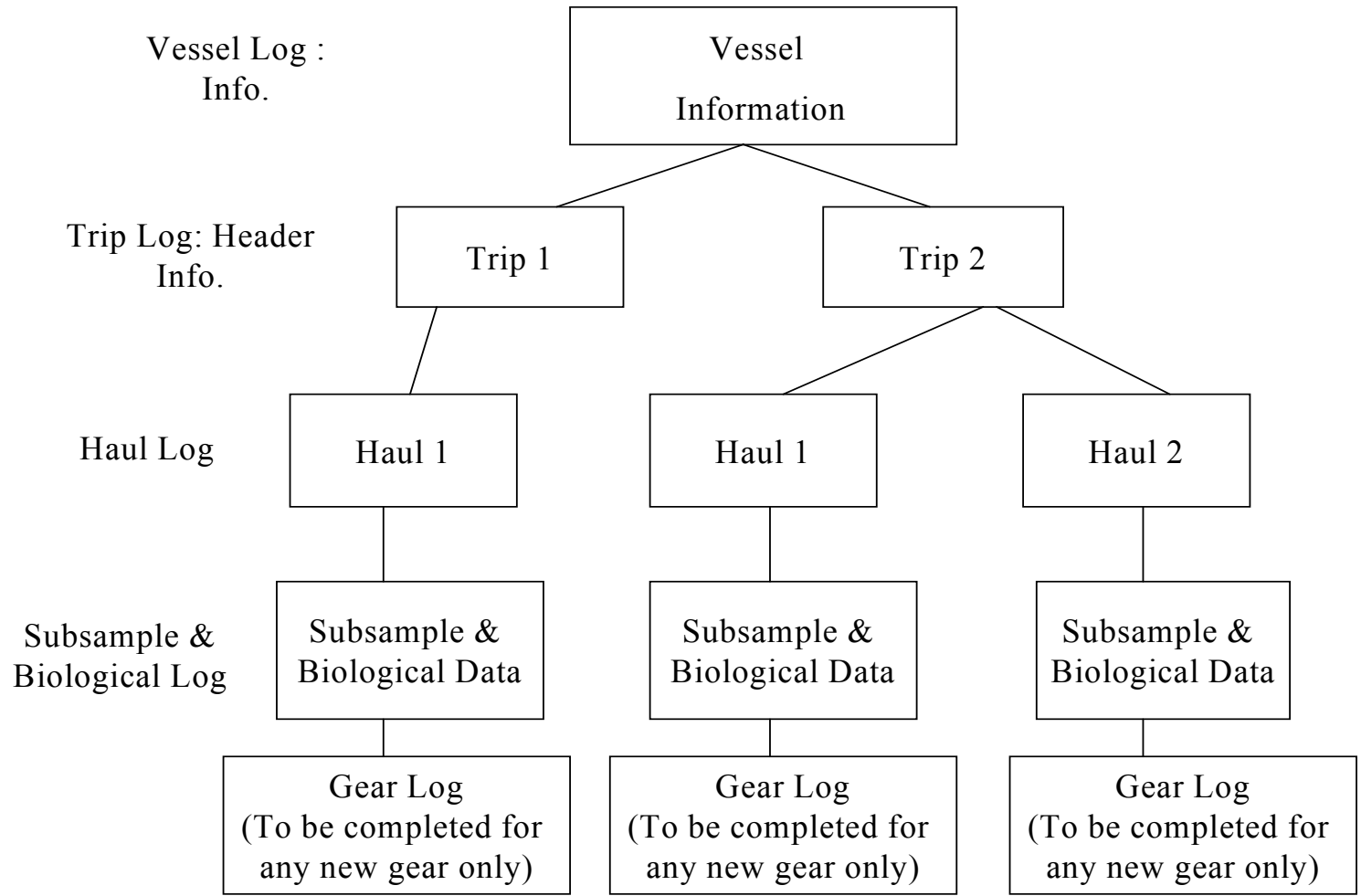


FIGURE 8.2. Flow of data collection forms for At-Sea Observer Program



**Section 8.a Release, Discard, and Protected Species Interactions
Monitoring Program for Commercial Fisheries**

The ACCSP quantitative release, discard, and protected species interactions monitoring program for commercial fisheries will include an at-sea observer program and commercial fishermen reporting.

The ACCSP qualitative release, discard, and protected species interactions monitoring program for commercial fisheries will include port interviewing to verify finfish reporting in the fishermen trip report and strandings and entanglements data.

**Section 8.b. Release, Discard, and Protected Species Interactions
Monitoring Program for the For-Hire Fisheries**

The ACCSP quantitative release, discard, and protected species interactions monitoring program for the for-hire fisheries will include an at-sea observer program and fishermen reporting, through the appropriate methodology as determined by the Discard Prioritization Committee.

The ACCSP qualitative release, discard, and protected species interactions monitoring program for the for-hire fisheries will include port interviewing to verify finfish reporting in the fishermen logbook (if determined appropriate), call-in reporting, trend information provided through the fishermen trip report, and strandings and entanglements data, and an add-on to existing recreational telephone surveys for protected species data.

Development of sampling methodologies specific to collection of observer data from the for-hire fisheries will be accomplished once the catch/effort collection methodology has been determined for that mode.

**Section 8.c. Release, Discard, and Protected Species Interactions
Monitoring Program for Recreational Fisheries
(Private/Rental and Shore Modes)**

The ACCSP will continue to collect quantitative data on the number of released and discarded finfish species through existing recreational intercept surveys. The ACCSP will collect qualitative release/discard information on protected species for recreational fisheries (private/rental and shore modes) through an add-on to existing recreational telephone surveys, strandings, and entanglements data.

Section 8.d. Qualitative Release, Discard, and Protected Species

Interactions Monitoring Program

The qualitative component of the release, discard, and protected species interactions monitoring program should include a combination of the following methods: 1) strandings and entanglements programs, 2) addition of questions and/or samples to existing recreational and for-hire telephone and intercept surveys, 3) commercial fisherman reporting systems, 4) port interviewing programs, and 5) real-time reporting programs.

Add-ons to existing recreational and for-hire surveys should be as follows: 1) additional questions added to telephone surveys for protected species interactions, and 2) additional sampling in the telephone and intercept surveys for finfish species in high incidence areas and/or the addition of special questions to both surveys.

For the purposes of this Module, entanglements are defined as a human interaction between marine species and fishing gear.

The National Stranding Network will serve as the ACCSP standard for the collection of strandings data. As the Stranding Network forms are modified, they should be reviewed by the Discard Prioritization Committee for inclusion in the Program Design.

Stranding and entanglement data collection programs should collect the approved minimum data elements listed in **Tables 8.E. and 8.F.** (pp. 8-26 to 8-37), including formats, descriptions, and reporting forms.

Stranding/entanglements data will include an assessment of human interaction: 1) physical contact between marine species and fishing gear (i.e., entanglements); 2) vessel/boat strikes; or 3) other human-related causes (e.g., ingestion of marine debris, gunshot). Strandings with evidence of an entanglement will be used to qualify interactions between commercial, for-hire, and recreational fisheries when possible.

Protected species interactions, releases, and discards of other marine organisms data collected through the commercial reporting system should be evaluated for trend information, especially for identification of high incidence areas for additional quantitative sampling.

Data collected through port interviewing programs should be used to verify data collected through real-time reporting and anecdotal information. Real-time reporting (i.e., 1-800 call-in systems) should be used for reporting of unusual events (interactions with protected species and possible finfish species).

The data collected through the ACCSP qualitative release, discard, and protected species interactions monitoring program will be used by the Discard, Prioritization Committee to prioritize and modify the quantitative release, discard, and protected species interactions data collection programs. The release/discard prioritization process should be linked closely with the setting of biological data collection priorities by the Biological Review Panel.

Section 8.e. Quantitative At-Sea Observer Program

The ACCSP At-Sea Observer Program is mandatory for the for-hire vessels under the MMPA and vessels participating in commercial fisheries (dependent on their classification category under MMPA). As a condition of permitting, vessels should be required to carry at-sea observers.

Note: The ACCSP Coordinating Council approved the ACCSP observer program as mandatory, at Jekyll Island (October 19, 1998).

Specific fisheries priorities will be determined through the discard prioritization process to be developed by the Discard Prioritization Committee.

All ACCSP at-sea observer programs should be conducted following the sampling protocols in **Table 8.G.** (p. 8-38) The ACCSP At-Sea Observer Program should collect minimum standard data elements at the haul level for commercial fisheries and at the drop level (each time gear is set) in the for-hire fisheries, utilizing adopted ACCSP standards and quality control/assurance procedures. Data on gear configuration should be collected when major changes in gear are made during a trip. Please see **Tables 8.G - 8-S** (pp.8-38 to 8-83) for the reference tables and data elements associated with the quantitative observer program.

All ACCSP at-sea observer programs should be conducted under the overall program goals with regards to protected species interactions, releases, and discards of other marine organisms as follows. The Program should develop and document specific program objectives to meet these goals.

1. To quantify protected species interactions, releases, and discards of other marine organisms from all U.S. commercial and for-hire recreational fishing vessels leaving from or landing at east coast ports.
2. To obtain accurate and representative fisheries release/discard data that may be used for required state and federal programs that:
 - Support the goals and objectives of the Magnuson-Stevens Fishery Conservation and Management Act, Atlantic Coastal Fisheries Cooperative Management Act, Marine Mammal Protection Act, Endangered Species Act, Migratory Bird Treaty Act, Atlantic Striped Bass Conservation Act such as minimizing releases and discards, release and discard mortality, and for marine mammals, reducing interactions to insignificant levels approaching zero mortality;
 - identify and evaluate fishing gear and practices that minimize or eliminate protected species interactions, releases and discards of other marine organisms;
 - provide fishermen with fishing opportunities without impacting the objectives of fishery management plans for species that are fully exploited or overfished;
 - improve contributions to regional fishery management councils and the Atlantic

States Marine Fisheries Commission (ASMFC) through a better understanding of the amount and nature of releases and discards, especially economic and regulatory releases and discards;

- assess abundance of marine resources -- assessments used by the National Marine Fisheries Service, the councils, states, and ASMFC for development and amendment of fisheries regulations/management plans and for conservation and management of marine mammals and protected species; and
 - monitor the effectiveness of regulations, gear modifications, fishing practices, and fishery management plans in achieving conservation objectives.
3. To provide a verification tool for fishermen logbook reporting or other qualitative data collection methods;
 4. To provide all state and federal fisheries agencies with a template for a comprehensive, long-term at-sea observer program, including standardized data elements and program design, sampling strategies, priorities, and data management; and,
 5. To strengthen and verify the flow of information to fishery managers and scientists. The ACCSP and program partners will conduct an approved training program for all new at-sea observers, and will provide certification of qualifications through this program.

Non-verified observer data should be made available for data entry 1-7 days after the trip return date. Finalized data should be provided 45 days after the last day of the month for which data was collected.

The data collected through the ACCSP At-Sea Observer Program for commercial fisheries should be linked to the commercial fishermen reporting system by the unique identifier (trip start date, vessel/participant identifier, and trip number).

Given that longitude and latitude are collected at the haul level, it is not possible to provide this information at the trip level. Therefore, primary area fished will need to be determined by the observer after the completion of the trip. As recommended in **Table 8.H.** (p. 8-39), Area Fished is defined as the statistical area and distance from shore where most fishing occurs.

Pilot surveys will be conducted on a fishery-by-fishery basis to determine the appropriate level of observer coverage required to meet relevant management objectives.

Observer data vessel or individual identifiers will be disguised and the data will be aggregated before release from the ACCSP data management system. Authorized users will have access to individual identifiers. Non-authorized users requesting individual identifiers will be referred to the agency that originally collected the data.

NOTE: Under current NMFS rulings, observed data on a mandatory trip are not considered confidential since the data are observed by an agent of NMFS and not submitted by a reporting entity. Observed data on a voluntary trip is confidential.

Section 8.f. Annual Prioritization Process for the ACCSP Release, Discard, and Protected Species Interactions Monitoring Program

The ACCSP will utilize an annual prioritization process to determine fisheries to be targeted for observer coverage the following year. The process timeline will closely follow the ACCSP's Funding Decision Guidelines and the annual meeting of the ACCSP's Biological Review Panel. It is imperative that all Committee members attend these prioritization meetings. The prioritization process will be enhanced with diversity of opinion..

The evaluation matrix variables (**Table 8.A.**) will be utilized to prioritize Atlantic coast fisheries for observer coverage. Fisheries with the highest point totals after the evaluation should be considered high priority fisheries. The ACCESS fisheries database developed by ASMFC staff should be updated regularly and utilized to identify the fisheries to be evaluated in the matrix.

All available catch/effort data should be utilized to evaluate the Fishery Information variables. The ACCSP data management system should sum the number of records by gear/area strata to calculate the total number of trips.

Observer effort should be allocated across the fishing season for a particular species or group.

Table 8.A. Fishery Evaluation Matrix Variables

Fishery Information

Management Agency (for information only)

Total dollar value of the fishery (for information only)

Is the fishery managed? (national, regional, or inter-jurisdictional fishery management plan?)

Yes = 1

No = 0

Number of trips (general indication of the total number of trips from the prior year)

1 = 1 - 100

2 = 101 - 1000

3 = 1001 - 10,000

4 = 10,001 - 50,000

5 = 50,001 - 100,000

Total Landings (general indication of the total landings of that species by that gear type)

1 = < 33% of the total species landings

2 = > 34% but < 66% of the total species landings

3 = > 67% of the total species landings

Change in Prior Year's Landings

0 = < 50% change

3 = > 50% change

Discard Information

Amount of regulatory discards (dead) of target species (percent total weight of targeted species)

0 = none

1 = low (< 5%)

2 = medium (5-20%)

3 = high (> 20%), or unknown

Protected species interactions (general indication of protected species interactions in the targeted fishery) (MMPA Rating Scale)

0 = does not affect / no interactions

3 = low - interactions not likely to harm protected species stocks

6 = medium - interactions could affect or interactions are unknown but could affect recovery of protected species stocks

9 = high - interactions adversely affect recovery of protected species stocks

Table 8.A. (cont'd)

Amount of regulated species discards (general indication of the weight of discards of other regulated species, relative to total landings)

- 0 = none
- 1 = low < 5%
- 2 = medium 5-20%
- 3 = high > 20%, or unknown

Impact of discards on other regulated species stocks (general indication of the condition and biomass of the regulated species being discarded)

- 0 = no impact
- 1 = low
- 2 = medium
- 3 = high, or unknown

Amount of non-regulated species discards (general indication of the weight of discards of other non-regulated species, relative to total landings)

- 0 = none
- 1 = low < 5%
- 2 = medium 5-20%
- 3 = high > 20%, or unknown

Impact of discards on non-regulated species stocks (general indication of the condition and biomass of the non-regulated species being discarded)

- 0 = none
- 1 = low
- 2 = medium
- 3 = high, or unknown

Figure 8.3. Fisheries Evaluation Table

| Fishery | | | | Species | | | | | | | | | |
|---------|---------------------|----------------------|---------------------------|------------|---------------------------------|---|--|---|---|---|--|--|--|
| Fishery | \$ Value of Fishery | Management Agency? | Fishery managed (y=1/n=0) | # Trips | Total Landings | Change in Prior Year's Landings or Effort | Regulatory discards of target species (dead) | Protected spp interaction | Amount of regulated spp discards | Impact of discards to other regulated spp stock | Amount of non-reg spp discards | Impact of discards on non-reg spp stock | Total points |
| | no points info only | no points; info only | | | | | 0, 1, 2, 3 | 0, 3, 6, 9 | 0, 1, 2, 3 | 0, 1, 2, 3 | 0, 1, 2, 3 | 0, 1, 2, 3 | 0,1, 2, 3 |
| | | | | | 1= <33% 2= 34-66% 3= >67% | 0 = <50% 3 = > 50% | 0 = none 1 = < 5% 2 = 5-20% 3 = > 20% | 0 = none 3 = low 6 = med, 9 = high | 0 = none 1 = < 5% 2 = 5-20% 3 = >20% | 0 = none 1 = low 2 = med 3 = high | 0 = none 1 = < 5% 2 = 5-20% 3 = > 20% | 0 = none 1 = low 2 = med 3 = high | 0 = none 1 = low 2 = med 3 = high |
| | | | | 1-5 points | | | or unknown | or unknown | or unknown | or unknown | or unknown | or unknown | |

Section 8.g.

Commercial Target Sampling Levels

The following target sampling levels are the ACCSP standards for the commercial fisheries portion of the Release, Discard, and Protected Species Interactions Monitoring Program:

A target of 5% of total trips, or achieving a 20-30% PSE for high priority fisheries.

A target of 2% of total trips for all other fisheries.

(in order to begin baseline data collection from non-priority fisheries)

These target sampling levels must be evaluated annually on a fishery by fishery basis to determine where the variance stabilizes and to meet desired goals.

Section 8.h. Recreational Fisheries Priorities

Recreational fisheries priorities should be compiled and evaluated as a portion of the ACCSP fishery prioritization process outlined in Section 8.f.

Until the ACCSP catch/effort and at-sea observer methodologies are determined, no observer targets be established for the for-hire fishery. However, finalization of the for-hire catch-effort protocols should not preclude a Partner proposing an observer pilot study for the for-hire sector.

Section 8.i. Observer Data Tracking System

The ACCSP will utilize a target tracking system, to track the number of observed trips so that observer effort may be reallocated as targets are met. ACCSP Partners should upload the following minimum data elements to the ACCSP tracking system before the 10th of the month following collection. The submission timeline will allow two effort reallocations per calendar quarter.

Partners are encouraged to monitor the tracking system as required to complete targets. The tracking system should reset to zero at the end of each quarter.

Table 8.B. Data Elements Required for the ACCSP Observer Tracking System

State Landed

Port Landed

Target Species (all three, if noted) (**Table 8.H.** p. 8-39)

Primary Area Fished

Primary Gear Used

Number of Protected Species Interactions

Section 8.j. Quality Assurance/Quality Control

Quality assurance/quality control standards for the Discard, Release, and Protected Species

Interactions module may be found in **Appendix F-3** of the ACCSP Program Design.

Table 8.C.

Examples of per Sample Requirements and Annual Sample Targets
Northeast Sampling Requirements, per Sample, by Species, 2001

| <u>SPECIES</u> | <u>LENGTHS</u> | <u>SCALES</u> | <u>OTOLITHS</u> |
|----------------------------|----------------|-----------------------|-----------------------|
| Alewife | 100 | 20 | -- |
| Winter flounder | 100 | 25 | -- |
| small | 50 | 10 | -- |
| Black Sea Bass | 100 | 25 | |
| Blueback herring | 100 | -- | 20 |
| Bluefish | 100 | 25 | -- |
| Butterfish | 100 | -- | 25 or freeze 25+ fish |
| Cod Scrod | 50 | -- | 10 |
| Market | 100 | -- | 20 |
| Large or whale | 100 | -- | 20 |
| Cusk | 100 | -- | 20 |
| American plaice (dab) | 100 | -- | 25 |
| small | 50 | 10 or | 10 |
| Spiny dogfish | 100 sexed | No age | |
| Summer flounder (fluke) | 100 | 25 | |
| small | 50 | 10 | |
| Witch flounder (grey sole) | 100 | -- | 25 |
| small | 50 | 10 | |
| Haddock | 100 | | 50 |
| Scrod (only) | 50 | | 25 |
| Lobster | 100 sexed | no age | |
| Mackerel | 100 | | freeze 25+ fish |
| Monkfish | 100 | no age | |
| Ocean Quahog | 30 | no age | |
| Pollock | 100 | | 20 |
| Redfish | 100 sexed | | 10 male & 10 female |
| Red Crab | 100 sexed | no age | |
| Rock Crab | 100 sexed | no age | |
| Scup | 100 | 25 | |
| Surf Clams | 30 | no age | |
| Sea Herring | | | freeze 50+ fish |
| Sea Scallops | 200 | no age | |
| Shad | 100 | 25 | -- |
| Shrimp | -- | -- | freeze 1 qt. |
| Silver hake | 100 | -- | |
| Juvenile (only) | 30 | -- | |
| Squid <i>Loligo</i> | 100 | -- | |
| <i>Illex</i> | 100 | -- | |
| Striped Bass | 100 | 25 | |
| Tilefish | 100 | -- | 20 |
| Weakfish | 100 | 25 | -- |
| White hake | 100 | -- | 25 |
| Windowpane | 100 | 25 | -- |
| Small | 50 | 10 | -- |
| Yellowtail flounder | 100 sexed | 15 males & 15 females | -- |
| Industrial Species | 1-3 bushels | -- | |

BIOLOGICAL SAMPLING REQUIREMENTS by SPECIES/REGION - FY2000

| Region | Species | Mkt Cat | Gear | Statistical Area | Oct-Dec | Jan-Mar | Apr-Jun | Jul-Sep | TOT |
|---------|----------------|-----------|------|------------------|---------|---------|---------|---------|-----|
| ME | ATL HALIBUT | UNC | ALL | 51 | 0 | 0 | 1 | 0 | 1 |
| MA-N | ATL HALIBUT | UNC | ALL | 51 | 0 | 0 | 1 | 0 | 1 |
| TOTAL | | | | | 0 | 0 | 2 | 0 | 2 |
| | | | | | | | | | |
| NJ | BLACK SEA BASS | JUMBO/LRG | ALL | 6 | 1 | 1 | 2 | 0 | 4 |
| RI | BLACK SEA BASS | JUMBO/LRG | OT | 53-63 | 1 | 1 | 1 | 0 | 3 |
| VA/MD | BLACK SEA BASS | JUMBO/LRG | ALL | 62 | 0 | 0 | 2 | 2 | 4 |
| VA/MD | BLACK SEA BASS | JUMBO/LRG | OT | 61-63 | 0 | 4 | 2 | 0 | 6 |
| NJ | BLACK SEA BASS | MED | ALL | 6 | 1 | 1 | 2 | 0 | 4 |
| RI | BLACK SEA BASS | MED | OT | 53-63 | 1 | 1 | 1 | 0 | 3 |
| VA/MD | BLACK SEA BASS | MED | ALL | 62 | 0 | 0 | 2 | 2 | 4 |
| VA/MD | BLACK SEA BASS | MED | OT | 61-63 | 0 | 4 | 2 | 0 | 6 |
| NJ | BLACK SEA BASS | SM | ALL | 6 | 1 | 2 | 2 | 1 | 6 |
| RI | BLACK SEA BASS | SM | OT | 53-63 | 1 | 1 | 1 | 0 | 3 |
| VA/MD | BLACK SEA BASS | SM | ALL | 62 | 0 | 0 | 2 | 2 | 4 |
| VA/MD | BLACK SEA BASS | SM | OT | 61-63 | 0 | 4 | 2 | 0 | 6 |
| TOTAL | | | | | 6 | 19 | 21 | 7 | 53 |
| | | | | | | | | | |
| MA-S/CC | BLACKBACK | LMNSL | OT | 522,56,525 | 1 | 1 | 1 | 1 | 4 |
| MA-N | BLACKBACK | LRG | OT | 51 | 2 | 1 | 2 | 1 | 6 |
| MA-N | BLACKBACK | LRG | OT | 522,56,525 | 0 | 1 | 1 | 0 | 2 |
| MA-S/CC | BLACKBACK | LRG | OT | 51 | 0 | 0 | 1 | 0 | 1 |
| MA-S/CC | BLACKBACK | LRG | OT | 521,526,53 | 1 | 1 | 1 | 2 | 5 |
| MA-S/CC | BLACKBACK | LRG | OT | 522,56,525 | 1 | 1 | 2 | 2 | 6 |
| RI | BLACKBACK | LRG | OT | 521,526,53,61 | 0 | 1 | 1 | 1 | 3 |
| RI | BLACKBACK | LRG | OT | 62,63 | 0 | 0 | 1 | 0 | 1 |
| MA-N | BLACKBACK | MED | OT | 51 | 0 | 1 | 0 | 0 | 1 |
| MA-N | BLACKBACK | MED | OT | 522,56,525 | 0 | 1 | 1 | 0 | 2 |
| MA-S/CC | BLACKBACK | MED | OT | 51 | 0 | 0 | 1 | 1 | 2 |
| RI | BLACKBACK | MED | OT | 521,526,53,61 | 0 | 1 | 2 | 1 | 4 |
| RI | BLACKBACK | MED | OT | 62,63 | 0 | 1 | 1 | 0 | 2 |
| MA-S/CC | BLACKBACK | PW | OT | 51 | 0 | 1 | 0 | 0 | 1 |
| MA-S/CC | BLACKBACK | PW | OT | 521,526,53 | 1 | 0 | 1 | 1 | 3 |
| MA-S/CC | BLACKBACK | PW | OT | 522,56,525 | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | BLACKBACK | PW | OT | 61-63 | 0 | 1 | 0 | 0 | 1 |
| MA-S/CC | BLACKBACK | SM | OT | 51 | 0 | 1 | 1 | 0 | 2 |
| MA-S/CC | BLACKBACK | SM | OT | 521,526,53 | 1 | 1 | 2 | 3 | 7 |
| MA-S/CC | BLACKBACK | SM | OT | 522,56,525 | 1 | 1 | 2 | 2 | 6 |
| RI | BLACKBACK | SM | OT | 521,526,53,61 | 0 | 0 | 1 | 1 | 2 |
| MA-N | BLACKBACK | UNC | OT | 522,56,525 | 0 | 1 | 1 | 0 | 2 |
| NY/LI | BLACKBACK | UNC | OT | 61-63 | 0 | 2 | 2 | 2 | 6 |
| TOTAL | | | | | 9 | 19 | 26 | 19 | 73 |
| | | | | | | | | | |
| MA-N | BLUEFISH | UNC | ALL | 52,53 | 0 | 0 | 0 | 1 | 1 |
| MA-S/CC | BLUEFISH | UNC | ALL | 52,53 | 1 | 0 | 0 | 1 | 2 |
| ME/NH | BLUEFISH | UNC | ALL | 52,51 | 0 | 0 | 0 | 1 | 1 |
| NJ | BLUEFISH | UNC | ALL | 53,6 | 1 | 0 | 3 | 3 | 7 |
| NY/LI | BLUEFISH | UNC | ALL | 52,53,56,6 | 3 | 0 | 3 | 3 | 9 |
| RI | BLUEFISH | UNC | ALL | 52,53,56,6 | 1 | 0 | 0 | 1 | 2 |

| | | | | | | | | | | |
|---------|------------|-------|-----|------------|-------|----|----|----|----|-----|
| VA/MD | BLUEFISH | UNC | ALL | 6 | | 2 | 0 | 1 | 1 | 4 |
| | | | | | TOTAL | 8 | 0 | 7 | 11 | 26 |
| RI | BUTTERFISH | LRG | OT | 52,53,56,6 | | 2 | 2 | 0 | 0 | 4 |
| RI | BUTTERFISH | MED | OT | 52,53,56,6 | | 1 | 1 | 0 | 0 | 2 |
| RI | BUTTERFISH | SM | OT | 52,53,56,6 | | 2 | 2 | 0 | 0 | 4 |
| NJ | BUTTERFISH | UNC | OT | 53,6 | | 1 | 1 | 1 | 1 | 4 |
| NY/LI | BUTTERFISH | UNC | OT | 51-53,6 | | 0 | 1 | 0 | 0 | 1 |
| RI | BUTTERFISH | UNC | OT | 5 | | 2 | 3 | 2 | 0 | 7 |
| | | | | | TOTAL | 8 | 10 | 3 | 1 | 22 |
| MA-N | COD | LRG | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| MA-N | COD | LRG | GN | 52,53,56 | | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | COD | LRG | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | LRG | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | LRG | GN | 52,53,56 | | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | COD | LRG | LL | 51 | | 1 | 1 | 1 | 1 | 4 |
| MA-N | COD | LRG | OT | 51 | | 2 | 3 | 3 | 2 | 10 |
| MA-N | COD | LRG | OT | 52,53,56 | | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | COD | LRG | OT | 52,53,56 | | 2 | 2 | 3 | 2 | 9 |
| ME/NH | COD | LRG | OT | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | LRG | OT | 52,53,56 | | 1 | 1 | 2 | 1 | 5 |
| MA-N | COD | MKT | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| MA-N | COD | MKT | GN | 52,53,56 | | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | COD | MKT | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | MKT | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | MKT | GN | 52,53,56 | | 1 | 2 | 2 | 2 | 7 |
| MA-S/CC | COD | MKT | LL | 51 | | 1 | 1 | 1 | 1 | 4 |
| MA-N | COD | MKT | OT | 51 | | 1 | 3 | 3 | 1 | 8 |
| MA-N | COD | MKT | OT | 52,53,56 | | 2 | 2 | 3 | 3 | 10 |
| MA-S/CC | COD | MKT | OT | 52,53,56 | | 2 | 2 | 4 | 3 | 11 |
| ME/NH | COD | MKT | OT | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | MKT | OT | 52,53,56 | | 2 | 2 | 2 | 2 | 8 |
| MA-N | COD | SCROD | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| MA-N | COD | SCROD | GN | 52,53,56 | | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | COD | SCROD | GN | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | SCROD | GN | 51 | | 0 | 0 | 1 | 1 | 2 |
| ME/NH | COD | SCROD | GN | 52,53,56 | | 1 | 0 | 1 | 1 | 3 |
| MA-S/CC | COD | SCROD | LL | 51 | | 1 | 1 | 1 | 1 | 4 |
| MA-N | COD | SCROD | OT | 51 | | 2 | 2 | 1 | 1 | 6 |
| MA-N | COD | SCROD | OT | 52,53,56 | | 2 | 2 | 2 | 3 | 9 |
| MA-S/CC | COD | SCROD | OT | 52,53,56 | | 2 | 1 | 2 | 3 | 8 |
| ME/NH | COD | SCROD | OT | 51 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | COD | SCROD | OT | 52,53,56 | | 1 | 1 | 2 | 1 | 5 |
| MA-S/CC | COD | UNC | GN | 52,53,56 | | 3 | 3 | 3 | 3 | 12 |
| MA-S/CC | COD | UNC | LL | 52,53,56 | | 3 | 3 | 3 | 3 | 12 |
| | | | | | TOTAL | 48 | 50 | 58 | 53 | 209 |
| MA-N | CUSK | UNC | OT | 5 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | CUSK | UNC | OT | 5 | | 1 | 2 | 1 | 1 | 5 |
| MA-N | CUSK | UNC | LL | 5 | | 1 | 1 | 1 | 1 | 4 |
| ME/NH | CUSK | UNC | LL | 5 | | 1 | 1 | 1 | 1 | 4 |
| | | | | | TOTAL | 4 | 5 | 4 | 4 | 17 |
| MA-N | DAB | LRG | OT | 51,52,56 | | 1 | 1 | 2 | 2 | 6 |
| MA-S/CC | DAB | LRG | OT | 52,53,56 | | 0 | 0 | 1 | 1 | 2 |
| ME/NH | DAB | LRG | OT | 51,52,56 | | 2 | 2 | 2 | 2 | 8 |

| | | | | | | | | | |
|---------|-----|-----|-----|----------|---|---|---|---|---|
| RI | DAB | LRG | ALL | 5,6 | 0 | 0 | 1 | 0 | 1 |
| MA-N | DAB | MED | OT | 51,52,56 | 2 | 1 | 2 | 2 | 7 |
| MA-S/CC | DAB | MED | OT | 52,53,56 | 0 | 0 | 1 | 1 | 2 |
| ME/NH | DAB | MED | OT | 51,52,56 | 1 | 1 | 2 | 2 | 6 |
| MA-N | DAB | SM | OT | 51,52,56 | 2 | 2 | 2 | 1 | 7 |
| MA-S/CC | DAB | SM | OT | 52,53,56 | 1 | 2 | 2 | 1 | 6 |
| ME/NH | DAB | SM | OT | 51,52,56 | 1 | 1 | 2 | 2 | 6 |

TOTAL 10 10 17 14 51

| | | | | | | | | | |
|---------|---------|-----|-------|------------|---|---|---|---|---|
| MA-N | DOGFISH | UNC | GN | 51,52,56 | 0 | 0 | 2 | 2 | 4 |
| MA-N | DOGFISH | UNC | OT | 51,52 | 1 | 0 | 1 | 1 | 3 |
| MA-N | DOGFISH | UNC | LL/LT | 5,6 | 0 | 0 | 1 | 1 | 2 |
| MA-S/CC | DOGFISH | UNC | GN | 51,52,56 | 1 | 0 | 1 | 1 | 3 |
| MA-S/CC | DOGFISH | UNC | LL/LT | 5,6 | 2 | 0 | 2 | 2 | 6 |
| ME/NH | DOGFISH | UNC | GN | 51,52,56,6 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | DOGFISH | UNC | OT | 51,52,56,6 | 2 | 2 | 2 | 2 | 8 |
| VA/MD | DOGFISH | UNC | ALL | 6 | 2 | 2 | 1 | 0 | 5 |

TOTAL 10 6 12 11 39

| | | | | | | | | | |
|---------|-------|-------|----|------------|---|---|---|---|----|
| MA-S/CC | FLUKE | JUMBO | OT | 52,53,56,6 | 0 | 1 | 1 | 1 | 3 |
| NJ | FLUKE | JUMBO | OT | 53,6 | 1 | 2 | 1 | 1 | 5 |
| NY/LI | FLUKE | JUMBO | OT | 53,6 | 1 | 2 | 1 | 1 | 5 |
| RI | FLUKE | JUMBO | OT | 52,53,56,6 | 1 | 2 | 1 | 1 | 5 |
| VA/MD | FLUKE | JUMBO | OT | 62,63 | 2 | 4 | 1 | 1 | 8 |
| MA-S/CC | FLUKE | LRG | OT | 52,53,56,6 | 0 | 1 | 2 | 2 | 5 |
| NJ | FLUKE | LRG | OT | 53,6 | 1 | 4 | 1 | 2 | 8 |
| NY/LI | FLUKE | LRG | OT | 53,6 | 1 | 2 | 1 | 1 | 5 |
| RI | FLUKE | LRG | OT | 52,53,56,6 | 2 | 4 | 2 | 2 | 10 |
| VA/MD | FLUKE | LRG | OT | 53,6 | 3 | 6 | 1 | 1 | 11 |
| MA-N | FLUKE | MED | OT | 52,53,56,6 | 0 | 0 | 0 | 1 | 1 |
| MA-S/CC | FLUKE | MED | OT | 52,53,56,6 | 0 | 1 | 1 | 1 | 3 |
| NJ | FLUKE | MED | OT | 53,6 | 1 | 4 | 1 | 2 | 8 |
| NY/LI | FLUKE | MED | OT | 53,6 | 1 | 2 | 2 | 1 | 6 |
| RI | FLUKE | MED | OT | 52,53,56,6 | 2 | 4 | 2 | 2 | 10 |
| VA/MD | FLUKE | MED | OT | 53,6 | 3 | 6 | 1 | 1 | 11 |
| NJ | FLUKE | SM | OT | 53,6 | 1 | 1 | 1 | 1 | 4 |
| NY/LI | FLUKE | SM | OT | 53,6 | 1 | 1 | 1 | 1 | 4 |
| RI | FLUKE | SM | OT | 52,53,56,6 | 1 | 1 | 1 | 1 | 4 |
| VA/MD | FLUKE | SM | OT | 53,6 | 1 | 1 | 0 | 0 | 2 |

TOTAL 23 49 22 24 118

| | | | | | | | | | |
|---------|-----------|-----|-----|-----|---|---|---|---|----|
| MA-N | GOOSEFISH | LRG | ALL | 5,6 | 1 | 4 | 3 | 1 | 9 |
| MA-S/CC | GOOSEFISH | LRG | OT | 5,6 | 6 | 8 | 6 | 4 | 24 |
| MA-S/CC | GOOSEFISH | LRG | SD | 5,6 | 7 | 3 | 5 | 6 | 21 |
| ME/NH | GOOSEFISH | LRG | ALL | 5,6 | 3 | 4 | 4 | 3 | 14 |
| NJ | GOOSEFISH | LRG | GN | 5,6 | 0 | 3 | 1 | 0 | 4 |
| NJ | GOOSEFISH | LRG | SD | 5,6 | 1 | 1 | 1 | 1 | 4 |
| NY/LI | GOOSEFISH | LRG | GN | 5,6 | 1 | 0 | 1 | 0 | 2 |
| RI | GOOSEFISH | LRG | GN | 5,6 | 1 | 0 | 1 | 0 | 2 |
| RI | GOOSEFISH | LRG | OT | 5,6 | 2 | 2 | 3 | 2 | 9 |
| RI | GOOSEFISH | LRG | SD | 5,6 | 0 | 0 | 0 | 1 | 1 |
| VA/MD | GOOSEFISH | LRG | SD | 5,6 | 0 | 1 | 2 | 1 | 4 |
| MA-N | GOOSEFISH | PW | ALL | 5,6 | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | GOOSEFISH | PW | ALL | 5,6 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | GOOSEFISH | PW | ALL | 5,6 | 0 | 1 | 1 | 0 | 2 |
| NJ | GOOSEFISH | PW | ALL | 5,6 | 0 | 1 | 0 | 0 | 1 |
| RI | GOOSEFISH | PW | ALL | 5,6 | 1 | 1 | 1 | 1 | 4 |

| | | | | | | | | | |
|---------|-----------|-----|-----|-----|---|----|---|---|----|
| VA/MD | GOOSEFISH | PW | ALL | 5,6 | 0 | 1 | 1 | 1 | 3 |
| MA-N | GOOSEFISH | SM | ALL | 5,6 | 1 | 2 | 1 | 1 | 5 |
| MA-S/CC | GOOSEFISH | SM | OT | 5,6 | 8 | 10 | 8 | 4 | 30 |
| MA-S/CC | GOOSEFISH | SM | SD | 5,6 | 5 | 2 | 5 | 7 | 19 |
| ME/NH | GOOSEFISH | SM | ALL | 5,6 | 2 | 3 | 3 | 3 | 11 |
| NJ | GOOSEFISH | SM | ALL | 5,6 | 1 | 1 | 1 | 1 | 4 |
| RI | GOOSEFISH | SM | OT | 5,6 | 3 | 2 | 2 | 5 | 12 |
| VA/MD | GOOSEFISH | SM | ALL | 5,6 | 0 | 1 | 1 | 0 | 2 |
| MA-N | GOOSEFISH | UNC | ALL | 5,6 | 1 | 0 | 0 | 0 | 1 |
| MA-S/CC | GOOSEFISH | UNC | ALL | 5,6 | 1 | 0 | 1 | 0 | 2 |
| NJ | GOOSEFISH | UNC | ALL | 5,6 | 9 | 2 | 5 | 1 | 17 |
| NJ | GOOSEFISH | UNC | ALL | 5,6 | 9 | 2 | 5 | 1 | 17 |
| NY/LI | GOOSEFISH | UNC | OT | 5,6 | 1 | 1 | 1 | 0 | 3 |
| NY/LI | GOOSEFISH | UNC | GN | 5,6 | 1 | 0 | 2 | 0 | 3 |
| VA/MD | GOOSEFISH | UNC | ALL | 5,6 | 0 | 0 | 2 | 0 | 2 |

TOTAL 67 58 69 46 240

| | | | | | | | | | |
|---------|-----------|-------|----|----------|---|---|---|---|----|
| MA-N | GREY SOLE | LRG | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | GREY SOLE | LRG | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | GREY SOLE | LRG | OT | 51,52,56 | 3 | 3 | 3 | 3 | 12 |
| MA-N | GREY SOLE | MED | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | GREY SOLE | MED | OT | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| MA-N | GREY SOLE | SM/PW | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | GREY SOLE | SM/PW | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | GREY SOLE | SM/PW | OT | 51,52,56 | 2 | 2 | 2 | 2 | 8 |

TOTAL 12 12 12 12 48

| | | | | | | | | | |
|---------|---------|-------|----|-------|---|---|---|---|---|
| MA-N | HADDOCK | LRG | OT | 51 | 1 | 1 | 1 | 1 | 4 |
| MA-N | HADDOCK | LRG | OT | 52,56 | 2 | 1 | 2 | 1 | 6 |
| MA-S/CC | HADDOCK | LRG | OT | 52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | HADDOCK | LRG | OT | 51 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | HADDOCK | LRG | OT | 52,56 | 1 | 1 | 1 | 1 | 4 |
| RI | HADDOCK | LRG | OT | 5,6 | 0 | 0 | 1 | 0 | 1 |
| MA-N | HADDOCK | SCROD | OT | 51 | 1 | 1 | 1 | 1 | 4 |
| MA-N | HADDOCK | SCROD | OT | 52,56 | 2 | 1 | 2 | 1 | 6 |
| MA-S/CC | HADDOCK | SCROD | OT | 52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | HADDOCK | SCROD | OT | 51 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | HADDOCK | SCROD | OT | 52,56 | 1 | 1 | 1 | 1 | 4 |
| RI | HADDOCK | SM | OT | 5 | 0 | 0 | 1 | 0 | 1 |

TOTAL 14 12 16 12 54

| | | | | | | | | | |
|-------|---------|-----|-----|----------|----|----|----|----|----|
| MA-N | HERRING | UNC | ALL | 51,52,56 | 10 | 20 | 10 | 10 | 50 |
| ME/NH | HERRING | UNC | OT | 51 | 25 | 0 | 20 | 35 | 80 |
| NJ | HERRING | UNC | ALL | 6 | 0 | 5 | 0 | 0 | 5 |
| RI | HERRING | UNC | ALL | 5,6 | 0 | 15 | 0 | 0 | 15 |

TOTAL 35 40 30 45 150

| | | | | | | | | | |
|-------------------------------------|--------------|----|-----|-------|----|----|----|----|----|
| RI | <i>Illex</i> | FT | UNC | 5,6 | 6 | 3 | 8 | 12 | 29 |
| NJ | <i>Illex</i> | FT | UNC | 62 | 6 | 4 | 6 | 9 | 25 |
| NJ | <i>Illex</i> | FT | LG | 61-63 | 0 | 0 | 4 | 6 | 10 |
| VA/MD | <i>Illex</i> | OT | UNC | 61-63 | 0 | 3 | 3 | 5 | 11 |
| <i>** See monthly sampling plan</i> | | | | | 12 | 10 | 21 | 32 | 75 |

| | | | | | | | | | |
|---------|---------|-----|----|------------|---|---|---|---|----|
| MA-N | LOBSTER | UNC | LP | 52 | 1 | 0 | 1 | 1 | 3 |
| MA-S/CC | LOBSTER | UNC | LP | 5 | 3 | 2 | 4 | 4 | 13 |
| ME/NH | LOBSTER | UNC | LP | 515 | 1 | 1 | 1 | 1 | 4 |
| RI | LOBSTER | UNC | LP | 52,53,56,6 | 4 | 4 | 4 | 4 | 16 |

TOTAL 9 7 10 10 36

| | | | | | | | | | |
|-------------------------------------|---------------|----|-----|-----|----|----|----|----|-----|
| MA-S/CC | <i>Loligo</i> | OT | UNC | 5 | 0 | 0 | 2 | 0 | 2 |
| MA-S/CC | <i>Loligo</i> | PN | UNC | 5 | 0 | 0 | 5 | 2 | 7 |
| RI | <i>Loligo</i> | OT | UNC | 5,6 | 5 | 9 | 4 | 3 | 21 |
| RI | <i>Loligo</i> | FT | UNC | 5,6 | 6 | 11 | 5 | 4 | 26 |
| NY/LI | <i>Loligo</i> | OT | UNC | 5,6 | 3 | 3 | 3 | 6 | 15 |
| NJ | <i>Loligo</i> | OT | UNC | 6 | 9 | 12 | 5 | 2 | 28 |
| VA/MD | <i>Loligo</i> | OT | UNC | 6 | 0 | 1 | 0 | 0 | 1 |
| <i>** See monthly sampling plan</i> | | | | | 23 | 36 | 24 | 17 | 100 |

| | | | | | | | | | |
|-------|----------|-----|----|-----|---|----|---|---|----|
| ME/NH | MACKEREL | UNC | OT | 51 | 0 | 1 | 1 | 0 | 2 |
| NJ | MACKEREL | UNC | OT | 5,6 | 4 | 4 | 4 | 0 | 12 |
| RI | MACKEREL | UNC | OT | 5,6 | 4 | 4 | 4 | 0 | 12 |
| VA/MD | MACKEREL | UNC | OT | 5,6 | 0 | 1 | 0 | 0 | 1 |
| TOTAL | | | | | 8 | 10 | 9 | 0 | 27 |

| | | | | | | | | | |
|---------|------------|-----|----|----------|---|---|---|---|----|
| MA-S/CC | OCEAN POUT | UNC | OT | 51,52,53 | 0 | 2 | 2 | 0 | 4 |
| RI | OCEAN POUT | UNC | OT | 52,53,6 | 0 | 2 | 2 | 0 | 4 |
| NY/LI | OCEAN POUT | UNC | OT | 53,6 | 0 | 3 | 3 | 0 | 6 |
| TOTAL | | | | | 0 | 7 | 7 | 0 | 14 |

| | | | | | | | | | |
|---------|--------------|-----|----|----------|----|----|----|----|-----|
| MA-S/CC | OCEAN QUAHOG | UNC | CD | 53,61 | 7 | 7 | 7 | 7 | 28 |
| ME/NH | OCEAN QUAHOG | UNC | CD | 51 | 5 | 5 | 5 | 5 | 20 |
| NJ | OCEAN QUAHOG | UNC | CD | 61,62 | 5 | 10 | 10 | 10 | 35 |
| NY/LI | OCEAN QUAHOG | UNC | CD | 53, 61 | 5 | 5 | 5 | 5 | 20 |
| RI | OCEAN QUAHOG | UNC | CD | 52,53,56 | 10 | 10 | 8 | 8 | 36 |
| VA/MD | OCEAN QUAHOG | UNC | CD | 62,63 | 5 | 5 | 5 | 5 | 20 |
| TOTAL | | | | | 37 | 42 | 40 | 40 | 159 |

| | | | | | | | | | |
|-------|---------------|-----|----|-------|---|---|---|---|---|
| NJ | OFFSHORE HAKE | UNC | OT | 53,61 | 0 | 0 | 1 | 0 | 1 |
| RI | OFFSHORE HAKE | UNC | OT | 53,61 | 0 | 0 | 1 | 0 | 1 |
| TOTAL | | | | | 0 | 0 | 2 | 0 | 2 |

| | | | | | | | | | |
|-------|---------|-----|----|----------|----|----|----|----|----|
| MA-N | POLLOCK | LRG | GN | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| MA-N | POLLOCK | LRG | OT | 51,52,56 | 3 | 3 | 3 | 3 | 12 |
| ME/NH | POLLOCK | LRG | GN | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | POLLOCK | LRG | OT | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| MA-N | POLLOCK | MED | OT | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | POLLOCK | MED | GN | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | POLLOCK | SM | GN | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | POLLOCK | SM | OT | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| TOTAL | | | | | 16 | 16 | 16 | 16 | 64 |

| | | | | | | | | | |
|-------|----------|-----|----|------------|---|---|---|---|----|
| MA-N | RED HAKE | UNC | OT | 51,52,56 | 1 | 0 | 1 | 1 | 3 |
| NJ | RED HAKE | UNC | OT | 52,53,56,6 | 1 | 1 | 1 | 1 | 4 |
| NY/LI | RED HAKE | UNC | OT | 52,53,56,6 | 3 | 3 | 1 | 1 | 8 |
| RI | RED HAKE | UNC | OT | 52,53,56,6 | 1 | 1 | 2 | 1 | 5 |
| TOTAL | | | | | 6 | 5 | 5 | 4 | 20 |

| | | | | | | | | | |
|-------|---------|-----|----|----------|---|---|---|---|----|
| MA-N | REDFISH | UNC | OT | 51,52,56 | 2 | 2 | 2 | 2 | 8 |
| ME/NH | REDFISH | UNC | OT | 51,52,56 | 1 | 1 | 2 | 1 | 5 |
| TOTAL | | | | | 3 | 3 | 4 | 3 | 13 |

| | | | | | | | | | |
|---------|------|-----|-----|----------|---|---|---|---|---|
| MA-S/CC | SCUP | JUM | ALL | 52,53,56 | 0 | 0 | 1 | 1 | 2 |
| NJ | SCUP | JUM | ALL | 6 | 0 | 2 | 0 | 0 | 2 |
| RI | SCUP | JUM | ALL | 53,6 | 0 | 0 | 1 | 1 | 2 |
| MA-S/CC | SCUP | LRG | ALL | 52,53,56 | 1 | 0 | 1 | 1 | 3 |
| NJ | SCUP | LRG | OT | 53,6 | 1 | 4 | 1 | 1 | 7 |

| | | | | | | | | | |
|---------|------|---------|-----|------------|----|----|----|----|----|
| NY/LI | SCUP | LRG | ALL | 53,6 | 1 | 1 | 1 | 0 | 3 |
| RI | SCUP | LRG | ALL | 52,53,56,6 | 2 | 1 | 1 | 1 | 5 |
| VA/MD | SCUP | LRG | OT | 6 | 0 | 1 | 0 | 0 | 1 |
| NJ | SCUP | LRG MIX | OT | 52,53,6 | 0 | 2 | 0 | 0 | 2 |
| MA-S/CC | SCUP | MED | ALL | 52,53,56 | 1 | 0 | 1 | 1 | 3 |
| NJ | SCUP | MED | OT | 53,6 | 0 | 1 | 1 | 0 | 2 |
| NY/LI | SCUP | MED | ALL | 53,6 | 1 | 1 | 1 | 0 | 3 |
| RI | SCUP | MED | ALL | 52,53,56,6 | 2 | 1 | 1 | 1 | 5 |
| VA/MD | SCUP | MED | OT | 6 | 0 | 1 | 0 | 0 | 1 |
| NJ | SCUP | PIN | ALL | 6 | 0 | 1 | 0 | 0 | 1 |
| NY/LI | SCUP | PIN | ALL | 6 | 1 | 0 | 0 | 0 | 1 |
| MA-S/CC | SCUP | SM | ALL | 52,53,56 | 1 | 0 | 0 | 0 | 1 |
| NJ | SCUP | SM | OT | 53,6 | 1 | 1 | 1 | 1 | 4 |
| NY/LI | SCUP | SM | ALL | 53,6 | 1 | 0 | 0 | 0 | 1 |
| RI | SCUP | SM | OT | 52,53,56,6 | 1 | 1 | 1 | 1 | 4 |
| VA/MD | SCUP | SM | OT | 6 | 0 | 1 | 1 | 0 | 2 |
| NY/LI | SCUP | UNC | ALL | 53,6 | 2 | 1 | 1 | 1 | 5 |
| TOTAL | | | | | 16 | 20 | 14 | 10 | 60 |

| | | | | | | | | | |
|---------|-------------|-----|------|-----|----|----|-----|----|-----|
| MA-N | SEA SCALLOP | UNC | SD | ANY | 0 | 0 | 1 | 1 | 2 |
| MA-S/CC | SEA SCALLOP | UNC | SD | 5 | 9 | 10 | 28 | 21 | 68 |
| MA-S/CC | SEA SCALLOP | UNC | SD | 6 | 5 | 7 | 19 | 13 | 44 |
| ME/NH | SEA SCALLOP | UNC | SD | ANY | 9 | 7 | 1 | 0 | 17 |
| NJ | SEA SCALLOP | UNC | SD | ANY | 3 | 6 | 17 | 11 | 37 |
| RI | SEA SCALLOP | UNC | SD | ANY | 0 | 0 | 0 | 1 | 1 |
| VA/MD | SEA SCALLOP | UNC | SD | ANY | 6 | 13 | 29 | 19 | 67 |
| VA/MD | SEA SCALLOP | UNC | TRAW | ANY | 1 | 3 | 7 | 5 | 16 |
| TOTAL | | | | | 33 | 46 | 102 | 71 | 252 |

| | | | | | | | | | |
|-------|--------|-----|----|----|---|----|---|---|----|
| MA-N | SHRIMP | UNC | OT | 51 | 0 | 4 | 2 | 0 | 6 |
| ME/NH | SHRIMP | UNC | OT | 51 | 0 | 16 | 6 | 0 | 22 |
| TOTAL | | | | | 0 | 20 | 8 | 0 | 28 |

| | | | | | | | | | |
|---------|-------------|-----|----|---------|----|----|----|----|-----|
| NJ | SILVER HAKE | JUV | OT | ANY | 2 | 2 | 2 | 2 | 8 |
| NY/LI | SILVER HAKE | JUV | OT | ANY | 8 | 8 | 6 | 6 | 28 |
| RI | SILVER HAKE | JUV | OT | ANY | 2 | 3 | 4 | 2 | 11 |
| MA-N | SILVER HAKE | UNC | OT | 5 | 4 | 1 | 1 | 4 | 10 |
| MA-S/CC | SILVER HAKE | UNC | OT | 5 | 4 | 1 | 1 | 4 | 10 |
| NJ | SILVER HAKE | UNC | OT | 6 | 2 | 3 | 3 | 2 | 10 |
| NY/LI | SILVER HAKE | UNC | OT | 52,53,6 | 10 | 14 | 8 | 8 | 40 |
| RI | SILVER HAKE | UNC | OT | 52 | 5 | 3 | 2 | 0 | 10 |
| RI | SILVER HAKE | UNC | OT | 53,6 | 3 | 5 | 10 | 0 | 18 |
| TOTAL | | | | | 40 | 40 | 37 | 28 | 145 |

| | | | | | | | | | |
|-------|----------|-----|----|-------|----|----|----|----|-----|
| NJ | SURFCLAM | UNC | CD | 6 | 10 | 10 | 10 | 10 | 40 |
| NY/LI | SURFCLAM | UNC | CD | 61,53 | 10 | 10 | 10 | 10 | 40 |
| VA/MD | SURFCLAM | UNC | CD | 6 | 10 | 10 | 10 | 10 | 40 |
| TOTAL | | | | | 30 | 30 | 30 | 30 | 120 |

| | | | | | | | | | |
|-------|----------|--------|-----|-------|---|---|---|---|----|
| ME/NH | TILEFISH | LRG | LL | 52-63 | 0 | 1 | 1 | 0 | 2 |
| NJ | TILEFISH | LRG | LL | 52-63 | 0 | 2 | 2 | 0 | 4 |
| NY/LI | TILEFISH | LRG | LL | 52-63 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | TILEFISH | MED | LL | 52-63 | 0 | 1 | 1 | 0 | 2 |
| RI | TILEFISH | MED | ALL | 52-63 | 1 | 0 | 1 | 1 | 3 |
| NY/LI | TILEFISH | MED | LL | 52-63 | 3 | 3 | 2 | 2 | 10 |
| NJ | TILEFISH | MED | LL | 52-63 | 0 | 2 | 2 | 0 | 4 |
| RI | TILEFISH | SM/KIT | ALL | 52-63 | 1 | 1 | 0 | 0 | 2 |

| | | | | | | | | | |
|---------------|------------|--------|-------|-------------|-----|-----|-----|-----|------|
| NY/LI | TILEFISH | SM/KIT | LL | 52-63 | 3 | 2 | 1 | 1 | 7 |
| NJ | TILEFISH | SM/KIT | LL | 52-63 | 1 | 1 | 1 | 0 | 3 |
| TOTAL | | | | | 10 | 14 | 12 | 5 | 41 |
| MA-N | WHITE HAKE | LRG | GN | 5 | 1 | 1 | 1 | 1 | 4 |
| MA-N | WHITE HAKE | LRG | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| MA-N | WHITE HAKE | LRG | OT | 52,53,56 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | LRG | GN | 51,52,56 | 1 | 1 | 2 | 2 | 6 |
| ME/NH | WHITE HAKE | LRG | LL/LT | 5,6 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | LRG | OT | 5 | 2 | 1 | 1 | 3 | 7 |
| ME/NH | WHITE HAKE | LRG | OT | 51,52,6 | 1 | 1 | 1 | 1 | 4 |
| MA-N | WHITE HAKE | MED | OT | 52,53,56 | 1 | 1 | 2 | 2 | 6 |
| ME/NH | WHITE HAKE | MED | GN | 5 | 1 | 1 | 2 | 2 | 6 |
| ME/NH | WHITE HAKE | MED | LL/LT | 5 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | MED | OT | 5 | 1 | 1 | 1 | 1 | 4 |
| MA-N | WHITE HAKE | SM | OT | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| MA-N | WHITE HAKE | SM | OT | 52,53,56 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | SM | GN | 51,52,56 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | SM | OT | 5 | 1 | 1 | 1 | 1 | 4 |
| MA-S/CC | WHITE HAKE | UNC | OT | 5 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | UNC | LL/LT | 5 | 1 | 1 | 1 | 1 | 4 |
| ME/NH | WHITE HAKE | UNC | OT | 5 | 1 | 1 | 1 | 1 | 4 |
| TOTAL | | | | | 19 | 18 | 21 | 23 | 81 |
| MA-S/CC | WINDOWPANE | UNC | OT | 52,56 | 5 | 4 | 3 | 5 | 17 |
| NY/LI | WINDOWPANE | UNC | OT | 53,61 | 2 | 1 | 1 | 1 | 5 |
| RI | WINDOWPANE | UNC | OT | 52,53,61 | 2 | 0 | 0 | 0 | 2 |
| TOTAL | | | | | 9 | 5 | 4 | 6 | 24 |
| MA-N | YELLOWTAIL | LRG | OT | 514,521 | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | YELLOWTAIL | LRG | OT | 514,521 | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | YELLOWTAIL | LRG | OT | 522,56,525 | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | YELLOWTAIL | LRG | OT | 526,53 | 2 | 2 | 2 | 2 | 8 |
| RI | YELLOWTAIL | LRG | OT | 526,537,539 | 2 | 2 | 2 | 2 | 8 |
| RI | YELLOWTAIL | LRG | OT | 522,525,56 | 2 | 2 | 2 | 2 | 8 |
| RI | YELLOWTAIL | LRG | OT | 526,53 | 2 | 2 | 2 | 2 | 8 |
| MA-N | YELLOWTAIL | SM | OT | 514,521 | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | YELLOWTAIL | SM | OT | 514,521 | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | YELLOWTAIL | SM | OT | 522,56,525 | 2 | 2 | 2 | 2 | 8 |
| MA-S/CC | YELLOWTAIL | SM | OT | 526,53 | 2 | 2 | 2 | 2 | 8 |
| RI | YELLOWTAIL | SM | OT | 526,537,539 | 2 | 2 | 2 | 2 | 8 |
| RI | YELLOWTAIL | SM | OT | 522,525,56 | 2 | 2 | 2 | 2 | 8 |
| RI | YELLOWTAIL | SM | OT | 526,53 | 2 | 2 | 2 | 2 | 8 |
| TOTAL | | | | | 28 | 28 | 28 | 28 | 112 |
| OVERALL TOTAL | | | | | 553 | 647 | 693 | 582 | 2475 |

ANNUAL South Atlantic Sampling Targets, by Species, 2001/2002

Samplers should attempt to obtain at least 30 length frequencies of a single species/market category, but no more than 50, from each sampled trip.

Please Note: Non-rounded target numbers are a three-year average of lengths or biological samples taken for that species from that state. Rounded target numbers are state-apportioned portions of the entire South Atlantic target.

| <u>SPECIES</u> | <u>STATE</u> | <u>Lengths</u> | <u>Otoliths</u> | <u>Gonads</u> |
|-----------------------|---------------------|-----------------------|------------------------|----------------------|
| Black Grouper | FL | 1200 | | 960 |
| | GA | | | |
| | NC | 3 | | |
| | SC | 21 | | |
| Black Sea Bass | FL | 136 | 34 | |
| | GA | 600 | 240 | |
| | NC | 1200 | 480 | |
| | SC | 600 | 240 | |
| Gag Grouper | FL | 600 | 240 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |
| Golden Tilefish | FL | 1200 | 480 | |
| | GA | 1200 | 480 | |
| | NC | 79 | | |
| | SC | 1200 | 480 | |
| Grey Snapper | FL | 1200 | 960 | 1200 |
| | GA | 7 | | |
| | NC | 1 | | |
| | SC | 16 | | |
| Gray Triggerfish | FL | 1200 | 480 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |
| Greater Amberjack | FL | 1200 | 480 | 1200 |
| | GA | 600 | 240 | 600 |
| | NC | 600 | 240 | 600 |
| | SC | 600 | 240 | 600 |
| Hogfish | FL | | 1200 | 7 |
| | GA | | | |
| | NC | 36 | | |
| | SC | 241 | | |

| <u>SPECIES</u> | <u>STATE</u> | <u>Lengths</u> | <u>Otoliths</u> | <u>Gonads</u> |
|------------------|--------------|----------------|-----------------|---------------|
| Jolthead Porgy | FL | 600 | 240 | 600 |
| | GA | | | |
| | NC | 6 | | |
| | SC | | | |
| King Mackerel | FL | 1800 | 804 | |
| | GA | 15 | | |
| | NC | 900 | | |
| | SC | 900 | 204 | |
| Spanish Mackerel | FL | 1404 | 1080 | |
| | GA | 60 | | |
| | NC | 696 | | |
| | SC | 1 | 60 | |
| Lane Snapper | FL | 1200 | 960 | |
| | GA | | | |
| | NC | | | |
| | SC | 2 | | |
| Lesser Amberjack | FL | 960 | | |
| | GA | 480 | | |
| | NC | 480 | | |
| | SC | 480 | | |
| Littlehead Porgy | FL | 600 | 240 | 600 |
| | GA | | | |
| | NC | | | |
| | SC | | | |
| Margate | FL | 600 | 240 | 600 |
| | GA | | | |
| | NC | 6 | | |
| | SC | | | |
| Mutton Snapper | FL | 1800 | 1440 | 1800 |
| | GA | 7 | | |
| | NC | 6 | | |
| | SC | 18 | | |
| Red Porgy | FL | 600 | 52 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |
| Red Snapper | FL | 600 | 240 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |

| <u>SPECIES</u> | <u>STATE</u> | <u>Lengths</u> | <u>Otoliths</u> | <u>Gonads</u> |
|--------------------|--------------|----------------|-----------------|---------------|
| Scamp | FL | 600 | 43 | 600 |
| | GA | 600 | 240 | 600 |
| | NC | 600 | 240 | 600 |
| | SC | 600 | 240 | 600 |
| Snowy Grouper | FL | 600 | 240 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |
| Vermilion Snapper | FL | 600 | 240 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |
| White Grunt | FL | 600 | 240 | |
| | GA | 600 | 240 | |
| | NC | 600 | 240 | |
| | SC | 600 | 240 | |
| Wreckfish | FL | 1200 | 480 | |
| | GA | 1200 | 480 | |
| | NC | | | |
| | SC | 1200 | 480 | |
| Yellowtail Snapper | FL | 2400 | 960 | |
| | GA | 13 | | |
| | NC | 4 | | |
| | SC | 10 | | |

NO TARGETS IDENTIFIED FOR THESE SPECIES - 2000-2001

Tautog

Atlantic sturgeon

Atlantic croaker

Red drum

American eel

Horseshoe crab

Northern shrimp

Atlantic menhaden

River herring/Hickory shad

Spot

Spotted seatrout

Winter flounder

Spiny dogfish

Table 8.D. Overview of the ACCSP qualitative release, discard, and protected species interactions monitoring program.

| Program Activity | Description / Criteria |
|--|---|
| Stranding/Entanglement Programs | <ul style="list-style-type: none"> • Use existing infrastructure and framework, including standard forms. • Provide funding to implement procedures for a coordinated coastwide stranding/entanglement network. • Provide stranding/entanglement data to the ACCSP. • Gear taken from stranding/entanglement programs should be retained and stored for future analysis. |
| Add-on to Existing Recreational and for-hire Telephone and Intercept Surveys | <ul style="list-style-type: none"> • Continue collection of release/discard data through existing catch surveys for recreational and for-hire fisheries. • Increase sample size in areas of high incidence of releases and discards. • Add additional questions to the telephone and intercept surveys for protected species interactions. |
| Commercial Reporting System | <ul style="list-style-type: none"> • Evaluate release/discard data collected through commercial catch/effort data collection programs for trend information to identify release/discard problem areas. • If for-hire logbooks are implemented through the ACCSP, evaluate release/discard data for trend information. |
| Port Interviewing | <ul style="list-style-type: none"> • Use of interview data from port interviewing programs to verify information collected through real-time reporting and other anecdotal information. • Use port interviewing programs for dissemination of ACCSP information and materials. • Data elements should include time, area, date, fishery type, release/discard information. |
| Real-Time Reporting | <ul style="list-style-type: none"> • 1-800 call-in system for real-time reporting of rescue needs or unusual event taking of protected species and possible finfish species. The system should accept anonymous information. • Data to be collected should include area, date, time, fishery type (if applicable), releases, and discards. • One number should be provided and maintained by one ACCSP program partner. • All relevant information should be forwarded in a timely manner to the appropriate organization/office for action. • Verification of reports should be made through port interviewing, the commercial fishermen logbook reporting system, U.S. Coast Guard boardings, and the at-sea observer program. |

Table 8.E. Minimum standard data elements to be collected through the sea turtle strandings and salvage network for providing information to the ACCSP qualitative release, discard, and protected species interactions data collection program.

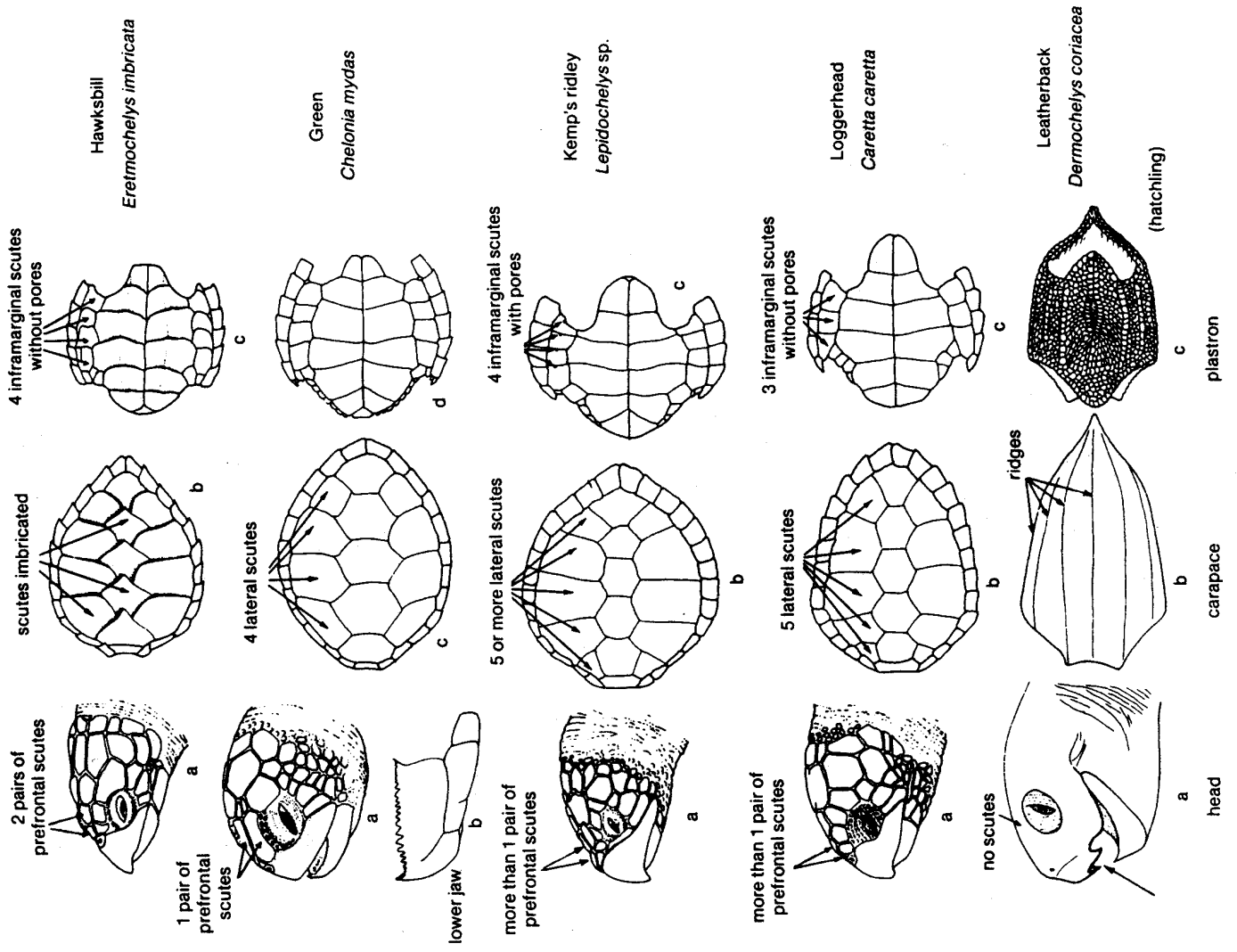
| Data Element | Description / Criteria | Format |
|--|--|--|
| Observer Name | Initials of the person who handled the turtle in the field. | 3 digit character |
| Stranding Date | The date the turtle was first reported or encountered. | MM:DD:YYYY |
| Observer Address/Affiliation | Address where observer can be reached. | 50 digit character |
| Observer Phone Number | Phone number, including area code, where observer can be reached. | 10 digit numeric |
| Species | The species of sea turtle observed. (NOTE: Committee recommends addition of an ITIS Unknown Turtle Species code and delete Reliability of ID field below) | ITIS 11 digit character (Table A.8 Program Design) |
| Turtle Number By Day | Sequential number indicating the number of turtles observed during each day. This data element will default to one when only one turtle was observed. | 2 digit numeric |
| Indication of Verification of Identification | Indication of whether the species identification was verified by a state coordinator (0=no, 1=yes). | 1 digit character |
| Sex | Sex of the sea turtle (1=male, 2=female, 9=undetermined). | 1 digit character |
| Sex Determined | Indication of how sex was determined (1=necropsy; 2=tail length beyond carapace in adults) | 1 digit numeric |
| State | The state in which the sea turtle was stranded. | 2 digit character postal alpha abbreviation (Table A.3, Program Design) |
| County | The county in which the sea turtle was stranded. | 3 digit character FIPS code (Table A.9 Program Design) |
| Latitude | The specific latitude of the stranding. If latitude cannot be provided specific reference information should be provided on the stranding location in the Notes field. | 6 digit numeric, 2 decimal minutes |

| Data Element | Description / Criteria | Format |
|--|---|--|
| Longitude | The specific longitude of the stranding. If longitude cannot be provided specific reference information should be provided on the stranding location in the Notes field. | 7 digit numeric, 2 decimal minutes |
| Condition | An indication of the general condition of the turtle (0=alive, 1=fresh dead, 2=moderately decomposed, 3=severely decomposed, 4=dried carcass, 5=skeletons/bones only). | 1 digit numeric |
| Final Disposition | The final disposition in which the observer left the turtle (1=painted, left on beach; 2= buried, on beach/off beach; 3=salvaged specimen, all/part; 4=pulled up on beach or dune; 5=unpainted, left on beach; 6=released alive, 7=taken alive to holding facility, 9=unknown). | 1 digit numeric |
| Tag Numbers | List of tag numbers and indication of location of tag. | 12 digit character |
| Carapace Length | Length of the carapace over curve. | 5 digit numeric |
| Length Type | Straight length - SCL Curve length - CLL | 3 digit character |
| Units of Measurement (Carapace Length and Width) | Units of length measurement (CM=centimeters, IN=inches). | 2 digit character (Table A.3 Program Design) |
| Carapace Width | Width of the carapace over curve (curved length). | 5 digit numeric |
| Width Method | Straight width - SCW Curve width - CLW | 3 digit character |
| Weight | Weight of turtle | 5 digit numeric |
| Units of Measurement (Weight) | Units of weight measurement (KG=kilograms, LB=pounds). | 2 digit character (Table A.3 Program Design) |
| Notes | General remarks of the observer (i.e., whether turtle was involved with tar or oil, gear or debris entanglement, wounds or mutilations, propeller damage, papillomas, epizoa). | See Table A.12 Program Design, for note codes. |

SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

PICTURE GUIDE TO SPECIES OCCURRING IN THE AREA



BACK OF FORM

Table 8.F.

Minimum standard data elements to be collected through the marine mammal stranding network providing information to the ACCSP qualitative release, discard, and protected species interactions monitoring program.

| Data Element | Description / Criteria | Format |
|--------------------------|---|--|
| Field Number | Assigned by responding organization - used to identify individual stranded animals. | Character |
| NMFS Registration Number | Assigned by NMFS. Used to identify individual stranded animals. | Character |
| National Database Number | Assigned by NMFS. Used to identify individual stranded animals. | Character |
| Common Name | The common name of the marine mammal observed. | 25 digit character |
| Species | The species of the marine mammal observed. | ITIS11 digit character (Table A.8 Program Design) |
| Observer Name | Initials of the person who handled the marine mammal in the field. | 3 digit character |
| Observer Affiliation | Agency/group observer is associated with. | 50 digit character |
| Observer Address | Address where observer can be reached. | 50 digit character |
| Observer Phone Number | Phone number, including area code, where observer can be reached. | 10 digit numeric |
| Sighting Only | 0 = No 1 = Yes - note if a sighting only | 1 digit character |
| Location Found | 1 = beach 2 = floating 3 = swimming 4 = other | 1 digit character |
| State | The state in which the marine mammal was observed. | 2 digit character FIPS (postal code) (Table A.9, Program Design) |
| County | The county in which the marine mammal was observed. | 3 digit character FIPS (Table A.9, Program Design) |
| City | The city in which the marine mammal was observed. | 10 digit character |
| Locality Details | Details on the specific locality where the marine mammal was observed. | 50 digit character |
| Latitude | The specific latitude of the marine mammal observation. | 6 digit numeric, 2 decimal minutes |
| Longitude | The specific longitude of the marine mammal observation. | 7 digit numeric, 2 decimal minutes |
| Mass Stranding | Indication of whether the observation was a mass stranding of marine mammals (0=no, 1=yes). | 1 digit numeric |

Table 8.F. (cont'd)

| Data Element | Description / Criteria | Format |
|------------------------------------|--|--------------------|
| Number of Animals | # of animals involved in the stranding event | 3 digit numeric |
| Human Interaction | Indication of whether a human interaction occurred (0=no, 1=yes, 2= cannot be determined). | 1 digit numeric |
| Type of Human Interaction | Type of human interaction, if applicable (1=boat collision, 2=shot, 3=fishery interaction, 4=other). | 1 digit numeric |
| Determination of Human Interaction | 1 = external exam, 2 = internal exam, 3 = not examined | 3 digit character |
| Other Causes | 0 = no, 1 = yes, 2 = CTBD | 1 digit character |
| Description of Other Causes | Circumstances surrounding the stranding other than, or in addition to, evidence of human interaction. | 50 digit character |
| Date of Initial Observation | Initial observation date of the marine mammal. | MM:DD:YYYY |
| Condition at Initial Observation | An indication of the general condition of the marine mammal at the initial observation (1=alive, 2=fresh dead, 3=moderately decomposed, 4=advanced decomposition, 5=mummified, 9=unknown). | 1 digit numeric |
| Date of Examination | Date of examination of the marine mammal. | MM:DD:YYYY |
| Status | 1 = alive, 2 = dead, 3 = unknown | 1 digit character |
| Condition at Examination | An indication of the general condition of the marine mammal at the time of examination (1=alive, 2=fresh dead, 3=moderately decomposed, 4=advanced decomposition, 5=mummified/skeletal, 9=dead/unknown). | 1 digit numeric |
| Live Animal Condition/Disposition | The final disposition of the marine mammal (1=left at site, 2=immediate release at site, 3=relocated, 4=euthanized at site, 5=died at site, 6=transferred to rehabilitation, 7=died during transport). | 1 digit numeric |
| Transport | Information on where the marine mammal was transported to. | 25 digit character |

Table 8.F. (cont'd)

| Data Element | Description / Criteria | Format |
|---|--|--|
| Final Disposition After Transport | Indication of whether the mammal died or was released during or after transport (0=died, 1=released) | 1 digit numeric |
| Date of Final Disposition | Date that marine mammal died or was released on or after transport. | MM:DD:YYYY |
| Tag(s) Applied | Were tags applied/attached to marine mammal, for identification (0=no, 1=yes) | 1 digit character |
| Tag(s) Present | Were tags present on the marine mammal upon initial identification (0=no, 1=yes) | 1 digit character |
| Tag Number(s) and Description | List tag number(s), description of tag type(s), and tag location(s). | 50 digit character |
| Tag Placement | Location where tag was placed (1=front, 2-rear). | 1 digit numeric |
| Carcass Disposition | The disposition of the carcass (1=left at site, 2=buried, 3=towed, 4=scientific collection, 5=educational collection, 6=other, 9=unknown). | 1 digit numeric |
| Necropsy | Indication of whether the marine mammal was necropsied (0=no, 1=yes). | 1 digit numeric |
| Sex | Sex of the marine mammal (1=male, 2=female, 9=unknown). | 1 digit numeric |
| Length | Straight length of the marine mammal, per standard protocols. | 10 digit numeric |
| Reliability of Length | Indication of whether length was measured or estimated (ME=measured, ES=estimate). | 2 digit character (Table A.3, Program Design) |
| Units of Length Measurement | Units of length measurement (CM=centimeters, IN=inches). | 2 digit character (Table A.3, Program Design) |
| Weight | Weight of marine mammal. | 10 digit numeric |
| Reliability of Weight | Indication of whether weight was measured or estimated (ME=measured, ES=estimate). | 2 digit character (Table A.3, Program Design) |
| Units of Weight Measurement | Units of weight measurement (KG=kilograms, LB=pounds) | 2 digit character (Table A.3, Program Design) |
| Remarks | General remarks. | 50 digit character |
| Tissue/Skeletal Material Taken | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Disposition of Tissue/Skeletal Material | List of any samples collected and their disposition. | 50 digit character |

MARINE MAMMAL STRANDING REPORT - LEVEL A DATA

MARINE MAMMAL, SEA TURTLE, AND DEBRIS SIGHTING LOG

The purpose of this log is to record all marine mammal, sea turtle, and debris sightings. Also, the observer records sighting effort (time spent looking) for transit watches, including time when no sightings are made. This information is critical in determining the temporal and spatial distribution of these animals and debris, and the relative abundance and behavior of animals in the vicinity of fishing operations. Sea bird sightings are not recorded here.

The types of sightings and watches, and the proper procedures for conducting each type of watch are described in the Marine Mammal, Sea Turtle and Debris Watches section of the NEFSC Observer Program Training Manual.

Each time a transit watch is conducted, this effort must be recorded on the log with a "begin" watch and "end" watch record (see EVENT TYPE codes, #3). Begin and end watch times must be at least one minute apart. A sighting of a marine mammal, sea turtle or debris may NOT be recorded in the same record as a "begin" or "end" watch record. For gillnet fisheries, do not record begin and end haul watch information as this information is already recorded on the Gillnet Haul Log.

An animal must not be recorded on both the Marine Mammal, Sea Turtle, and Debris Sighting Log and the Marine Mammal, Sea Turtle, and Sea Bird Incidental Take Log. See the Marine Mammal, Sea Turtle, and Sea Bird Incidental Take Log in the NEFSC Observer Program Manual for more detailed instructions on deciding when an animal is a sighting versus an incidental take. An animal determined to be an incidental take is recorded on the Marine Mammal, Sea Turtle, and Sea Bird Incidental Take Log.

Any debris caught during a haul is recorded on the Haul Log (or the Individual Animal Log in pelagic fisheries) and not on this log.

INSTRUCTIONS

For instructions on completing fields A-C refer to the Common Haul Data section of the NEFSC Observer Program Manual.

- TODAY'S DATE:** Record the month, day, and year that the event being described occurred.
Example: 03/20/01.

EVENT INFORMATION

- TIME:** Record the local time using the 24 hour clock (0000-2359) that the event being described occurred. Example: 20:32.
- TYPE CODE:** Indicate the type of event that occurred by recording the most appropriate two digit code:
For Watches Only - When a marine mammal, sea turtle, and debris watch is conducted, record one of the following begin/end watch event type codes:
01= Begin transit watch. 02 = End transit watch. 03 = Begin set watch. 04 = End set watch.
05= Begin haul watch. 06 = End haul watch.

NOTE: For gill net fisheries, do not record begin and end haul watch information as this information is already recorded on the Gillnet Haul Log.

For Sightings Only - When a marine mammal, sea turtle, or debris sighting is made, record one of the following sighting event type codes to indicate whether the observer is on- or off-effort, and to best describe the vessel activity at the time the sighting was made:

- | | |
|--|--|
| 08 = On-effort, during dedicated watch. | 10 = Off-effort, vessel activity unknown. |
| 11 = Off-effort, vessel stop/anchor/drift. | 12 = Off-effort, sitting on gear. |
| 13 = Off-effort, transiting or searching. | 14 = Off-effort, towing gear. |
| 15 = Off-effort, hauling in gear. | 16 = Off-effort, setting out gear. |
| 17 = Off-effort, waiting for J/V transfer. | 18 = Off-effort, taking J/V transfer. |
| 00 = Unknown. | 99 = Other, describe the event type in COMMENTS. |

NOTE: If the sighting is made during a watch, the sighting event code is always "On-effort, during dedicated watch" (08).

NOTE: Use code 99 to describe dedicated sighting activity outside of the specified watches.

4. POSITION CODE: Indicate the location and position of the observer on the vessel at the time of this event by recording the most appropriate one digit code:

- | | |
|--|-----------------------------------|
| 00 = Unknown. | 01 = Bow, facing forward. |
| 02 = Wheelhouse, facing forward. | 03 = Wheelhouse, facing backward. |
| 04 = Work deck, facing backward. | 05 = Work deck, facing sideways. |
| 06 = Starboard side, facing net. | 07 = Port side, facing net. |
| 99 = Other, describe the position in COMMENTS. | |

NOTE: If the sighting is not seen by the observer, record "Other" (99), and describe in COMMENTS.

5. HAUL NUMBER: Record the haul number assigned to the haul in which any on-effort events or off-effort sightings occurred between the beginning and end of a haul. This number must agree with the number recorded for this haul on the corresponding Haul Log.

NOTE: If the event does not occur during a haul, record a dash (-).

6. LATITUDE/LONGITUDE OR LORAN: Record the latitude and longitude location, to the tenth of a minute, where the event occurred. If the latitude and longitude location is given in seconds, convert them to tenths of minutes. If latitude and longitude positions are not available, record the LORAN stations and bearings.

NOTE: See Appendix Q. Conversion Tables for a list of second ranges and corresponding conversions to tenths of minutes.

NOTE: If neither latitude/longitude or LORAN positions are available, record the statistical area as listed in Appendix E.1. Map of Statistical Areas of the Northeast U.S. or Appendix E.2. Map of Statistical Areas of the Southeast U.S.

ACCSP STATISTICAL AREA MAPS ARE IN DEVELOPMENT.

Example: 35 23.4 75 16.7 or 9960X 27054 9960Y 41824

NOTE: While 9960- loran chains are the most frequently used chains within this program's jurisdiction, in extreme northern and southern areas other chains may be used, such as:

Southern North Carolina: 7980- Canadian: 5930-

7. WEATHER CODE: Indicate the weather at the time the event occurred by recording the appropriate two digit code:

- | | | |
|-----------------------|-----------------------------------|--------------------|
| 00 = Unknown | 01 = Clear | 02 = Partly Cloudy |
| 03 = Layers of Clouds | 04 = Drizzle | 05 = Rain |
| 06 = Showers | 07 = Thunderstorms | 08 = Rain and Fog |
| 09 = Fog/thick haze | 10 = Snow, or rain/snow mix | |
| 11 = Blowing snow | 99 = other (describe in Comments) | |

8. WAVE HEIGHT: Record, in whole feet, the wave height at the time the event occurred. If the wave height is less than six inches, record "0". NOTE: This is not a range.

9. COMMENTS?: Indicate whether there is a comment associated with this event by recording the appropriate code:

0 = No. 1 = Yes.

IF THE EVENT RECORDED IS A MARINE MAMMAL, SEA TURTLE, OR DEBRIS SIGHTING, COMMENTS MUST BE INCLUDED. COMMENTS are recorded on the Marine Mammal, Sea Turtle, and Debris Sighting Comments Log. Each event has an unique EVENT TIME per day. Care should be taken to correctly record the matching EVENT TIME on both logs.

Sighting comments should include all field characteristics actually seen by the observer and used to make an identification of the animal. Any unusual marks, scars or coloration on the animal(s) should be noted. Size of animal(s) should be included if an estimation is possible. Record ranges of the number of animals sighted, including the number of calves. Behaviors of the animal(s) sighted should be included, such as swim speed and direction and any other activities noted while the animal(s) was (were) observed.

Observed associations with other vessels, marine life or oceanographic phenomena (i.e. wind rows, current

lines, flotsam, jetsam or a dramatic change of water color in the immediate area) should also be included. If photographs were taken, record the ROLL NUMBER and FRAME NUMBERS.

It is important to document any marine debris, whether in the area of animals or not. The debris and its approximate size(s) should be described in general terms, e.g., plastic sheeting 1 meter square, trawl webbing 0.5(m) X 3.0(m), etc. If derelict gear is picked up on purpose to be disposed of properly, take photographs and record in COMMENTS any marine life that may be entangled. Debris entanglement and ingestion have been documented as sources of mortality for marine mammals, sea turtles, sea birds, fish, and shellfish (Shomura and Yoshida 1985). Sea turtles often utilize large pieces of debris for shelter.

SIGHTING INFORMATION

NOTE: If the record or event being recorded is not a sighting, leave the following fields (#10-#15) blank.

10. SPECIES NAME: Record the complete common name of each marine mammal, sea turtle, or debris sighted, as listed in **ACCSP Table A.8, Program Design**.

NOTE: If it is not possible to make a positive species identification, identify the animal to the most specific generic group of which you are positive, i.e. baleen whale, unidentified dolphin, seal, sea turtle, etc. **DO NOT GUESS AT SPECIES IDENTIFICATION.**

Examples: Unidentified Whale Harbor Porpoise.

11. SPECIES CODE: Leave this field blank.

12. NUMBER OF ANIMALS: Record the number of animals sighted. Do not record a range.

NOTE: If the sighting is debris, record a dash (-) in this field.

13. SIGHT CUE CODE: Indicate how the sighting was first detected by recording the appropriate code:

- 0 = Unknown.
- 1 = Sighted with naked eye.
- 2 = Sighted with binoculars.
- 3 = First sighted by captain or crew, then by observer.
- 4 = Sighted by captain or crew ONLY.
- 9 = Other, describe the sight cue in COMMENTS.

14. ANIMAL CONDITION CODE: Indicate the condition of the animal(s) sighted by recording the appropriate two digit code:

- 00 = Unknown, explain why you can not identify the animal condition in COMMENTS.
- 01 = Alive, condition unknown.
- 02 = Alive, not injured.
- 03 = Alive, injured, describe how the animal is injured in COMMENTS.
- 04 = Alive, hook/gear in/around mouth, attempt to determine where in the mouth the hook is, etc. and describe in COMMENTS.
- 05 = Alive, hook/gear in/around flipper, i.e. hook in the flipper or gear around the flipper.
- 06 = Alive, hook/gear in/around another single body part, i.e. hook in the neck or plastron; specify which in COMMENTS.
- 07 = Alive, hook/gear in/around several body parts, describe more fully in COMMENTS.
- 08 = Alive, seen by captain and/or crew ONLY.
- 10 = Dead, condition unknown.
- 11 = Dead, fresh.
- 12 = Dead, moderately decomposed.
- 13 = Dead, severely decomposed.
- 14 = Dead, seen by captain and/or crew ONLY.

NOTE: Codes 04-07 exist primarily to improve descriptions of sea turtles. However, these codes may be used, as appropriate, for other animals.

NOTE: If the sighting is debris, leave this field blank.

- 15. ANIMAL BEHAVIOR CODE:** Indicate the initial behavior of the animal(s) when first sighted by recording the most appropriate two digit code:
- 00 = Unknown.
 - 01 = Near gear, physical contact.
 - 02 = Near gear, within 50 meters.
 - 03 = Near gear, within 51 to 150 meters.
 - 04 = Feeding on catch.
 - 05 = Porpoising: the animal(s) is (are) splashing along at the surface, breaking the surface regularly, showing most of the body.
 - 06 = Bow riding: the animal(s) is (are) observed keeping pace with vessel on the bow wave.
 - 07 = Breaching: the animal(s) emerge(s) from the water and crash(es) down on a flank, back or belly.
 - 08 = Swimming at surface: the animal(s) is (are) observed several times surfacing 'normally', each surfacing at some irregular distance from the previous one; it (they) appear(s) to be just moving along.
 - 09 = Milling: the animal(s) is (are) rolling at the surface with no direction, making short dives without moving along. Often a group activity.
 - 10 = Motionless at surface (or dead).
 - 11 = Vessel avoidance: the animal(s) abruptly change(s) its (their) swimming direction or behavior to avoid the vessel; a startling, alarming, fleeing reaction.
 - 12 = Vessel attraction: the animal(s) change(s) its (their) swimming direction to approach the vessel, such as a pod of dolphins purposefully heading toward the vessel to bowride.
 - 99 = Other, describe the animal behavior in COMMENTS.
- NOTE:** If the animal(s) exhibit(s) multiple behaviors, record the code for the initial behavior only, and describe all subsequent behaviors in COMMENTS. If multiple initial animal behaviors exist for one sighting, record the lowest numerical code which applies, and record the other behaviors in COMMENTS.
- NOTE:** If the sighting is debris, leave this field blank.

Table 8.G. Overview of the ACCSP at-sea observer program for collection of quantitative release, discard, and protected species interactions data.

| Reporting Requirement | Description / Criteria |
|--------------------------------|---|
| Sampling Strategies | <p>All release/discard data should be collected at the haul level for commercial fisheries and at the drop level (each time gear is wet) for the for-hire fisheries.</p> <p>All release, discard, and protected species interactions monitoring programs should develop stratified random sampling procedures and a target sampling frame. Sampling strata should be determined on an issue-specific basis, as determined by the release/discard prioritization process (see Table 34). The generated sampling frame should include additional vessels to replace vessels that are not utilized. The general criteria to be used for not selecting a vessel should be when that particular vessel has participated in the program at least four times in one month or once per quarter for longer trips. All programs should indicate in the database the procedure used to select vessels, including reasoning for non-random selection.</p> <p>All ACCSP at-sea observer programs should provide documentation for those vessels that are not included in the sampling frame.</p> <p>Pilot surveys will be conducted to determine the appropriate level of observer coverage on a fishery-by-fishery basis to meet relevant management objectives of all fisheries based upon days at sea or fishing days (trip level for headboats) until such time as data are available for estimation of PSE (percent standard error) values.</p> <p>Recommended PSE values for both protected species and finfish is 20-30%</p> <p>Use of proportional sampling across all gear types and fisheries, recognizing some prioritization as need (statutory requirements) and data (high release/discard areas) dictate.</p> |
| Data Management and Submission | <p>Data submission should be on a trip basis.</p> <p>All release/discard data from commercial fisheries should be linked by the unique identifier to data collected through the commercial fishermen reporting system (Section 5.a.).</p> <p>Non-verified observer data should be made available for data entry 1-7 days after the trip return date, while finalized data should be provided 45 days after the last day of the month for which data was collected.</p> |
| Subsampling Protocols | <p>Subsampling priorities are as follows: 1) collect complete data on every haul; 2) collect partial data on every haul; and 3) collect partial data as often as possible. Specific subsampling procedures should be developed and documented by each collecting agency on a fisheries-specific basis (see the ACCSP Quality Control/Assurance Document and general subsampling guidance).</p> <p>Basic data elements to be collected on all unobserved hauls include: vessel/trip header information, haul number, time set, time retrieved, estimated kept catch, gear number, lat/long begin, and lat/long end.</p> |

Table 8.H. Minimum standard data elements to be collected through the ACCSP at-sea observer program for collection of quantitative release, discard, and protected species interactions data for commercial fisheries.

| Data Element | Description / Criteria | Format |
|-----------------------------------|--|--|
| Vessel Information | | |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number) These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel (if applicable) | 20 digit character |
| Individual Identifier | An identifier unique to an individual (i.e. operator license number), traceable through time and space | 11 digit character |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | <i>To Be Developed</i> |
| Trip Information | | |
| Reporting Form Series Number | Individual number for each reporting form, to be assigned by the collecting agency (i.e., trip ticket number). This data element may be blank in the dual reporting system. | 12 digit alphanumeric |
| Form Type/Version Number | Version identification number for the ACCSP reporting form. | 12 digit alphanumeric |
| Trip start | Date the trip started (this is unique to each trip and can be used to tie multiple unloadings into a trip record). A trip is shore to shore by gear/area combination, or in the case of transfers at sea, an off-loading at sea is a trip. This information should include trips with effort but no catch. | MM/DD/YYYY |
| Target Species or Species Group 1 | The first target species or species group for that trip/haul. | ITIS 11 digit character (Table A.8 Program Design) |
| Target Species or Species Group 2 | The second target species or species group for that trip. | ITIS 11 digit character (Table A.8 Program Design) |
| Target Species or Species Group 3 | The third target species or species group for that trip. | ITIS 11 digit character (Table A.8 Program Design) |
| State Landed | The state where the product was landed or unloaded. | 2 digit character postal code (Table A.9 Program Design) |
| Port Landed | The location within a state where the product was landed/unloaded. | 5-digit FIPS code (Table A.9 Program Design) |

Table 8.H. (cont'd)

| | | |
|-----------------------------------|---|---|
| Trip Number | Sequential number representing the number of trips taken in a single day by either a vessel or individual. The trip number will default to “one” when only a single trip is conducted. | 2 digit numeric |
| Data Element | Description / Criteria | Format |
| Primary Gear | The primary gear used to catch the landed species. | 3-digit numeric (Table A.4 Program Design) |
| Primary Area Fished | Statistical area and distance from shore where most hauls occurred. The distance from shore where fishing occurred [inland (less than 0 nautical miles...nm), nearshore (0-3 nm on Atlantic coast, 0-9 nm on Florida and Texas Gulf coast), EEZ (3-200 nm on Atlantic coast, 9-200 nm on Florida and Texas Gulf coast), territorial seas (in the USVI and Puerto Rico (12 nm), and international (>200 nm)] is embedded in this code. | 3-digit numeric plus 2 decimals (Table A.3 and Tables A1 - A.10 Program Design) and area figures when revised |
| Number of Hauls | Total number of hauls of gear during a trip. | 3 digit numeric (Table A.2, Program Design) |
| Haul Information | | |
| Trip Identifier | Trip start, vessel or individual identifier and trip number (see vessel and trip information) | 21 digit character |
| Gear(s) | The type(s) of gear used to catch the landed species. | 3 digit character (Table A.4, Program Design) |
| Quantity of Gear | The amount of gear employed. | 4-digit numeric (Table 22, Program Design) |
| Haul Number | Sequential number for unique locations where gear was hauled, representing the number of hauls taken in a single trip by either a vessel or individual. | 3 digit numeric |
| Haul Observed | Indication of whether the haul was actually observed (0=haul not observed,, 1=complete catch data collected, 2=complete release/discard data only, 3=partial release/discard data, 4=observed kept portion, not release/discard data). | 1 digit character |
| Target Species or Species Group 1 | The first target species or species group for that haul. | ITIS 11 digit character (Table A.8, Program Design) |
| Target Species or Species Group 2 | The second target species or species group for that haul. | ITIS 11 digit character (Table A.8, Program Design) |

Table 8.H. (cont'd)

| Data Element | Description / Criteria | Format |
|-----------------------------------|---|--|
| Target Species or Species Group 3 | The third target species or species group for that haul. | ITIS 11 digit character (Table A.8, Program Design) |
| Lat Begin | The latitude at the beginning of the haul. | 6 digit numeric plus 1 character (2 decimal minutes) |
| Long Begin | The longitude at the beginning of the haul. | 7digit numeric plus 1 character (2 decimal minutes) |
| Lat End | The latitude at the end of the haul. | 6 digit numeric plus 1 character (2 decimal minutes) |
| Long End | The longitude at the end of the haul. | 7digit numeric plus 1 character (2 decimal minutes) |
| | | |
| Time Set | The time the gear was set. Used with time hauled to derive fishing time | MO:DD:HH:MM |
| Time Retrieved | The time the gear was hauled. Used with time set to derive fishing time | MO:DD:HH:MM |
| Depth Fished | Depth in fathom at which the gear is fished. | 4 digit numeric plus 1 decimal |
| Minimum Bottom Depth | Minimum depth of bottom in fathoms. | 4 digit numeric plus 1 decimal |
| Maximum Bottom Depth | Maximum depth of bottom in fathoms. | 4 digit numeric plus 1 decimal |
| Deterrent Devices Operational | Indication of whether deterrent devices were operational during the haul | 1 digit character (Y/N) |
| Deterrent Device | Indication of whether deterrent devices were used during the haul (0= pinger, 1= tory lines, 2 = deflectors, 3= other). | 1 digit character |
| Deterrent Device 2 | Indication of whether deterrent devices were used during the haul (0= pinger, 1= tory lines, 2 = deflectors, 3= other). | 1 digit character |
| Deterrent Device 3 | Indication of whether deterrent devices were used during the haul (0= pinger, 1= tory lines, 2 = deflectors, 3= other). | 1 digit character |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit numeric |

Table 8.H. (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|--|
| Subsample Log - SEE TABLE 20 FOR PRIORITIES | | |
| Trip Identifier | Trip start, vessel or individual identifier and trip number (see vessel and trip information) | 21 digit character |
| Haul Number | Sequential number for unique locations where gear was hauled, representing the number of hauls taken in a single trip by either a vessel or individual. | 3 digit numeric |
| Subsample Amount or Weight | The total amount, in whole pounds, numbers, or other appropriate unit of measurement of each marine species that is landed, sold, released, discarded, etc. Quantity of protected species should be measured in numbers. This data element is linked to the units of measurement and disposition code for exact characterization of the quantity. For some species, especially protected species, these data are needed on a set basis. | 8 digit numeric plus two decimals |
| Units of Measurement for Subsample Weight | Units of measurement for subsample weight (i.e., each, pounds, numbers, etc.) | 2 digit character (Table A.3, Program Design) |
| Species | The species for each species of marine resources landed, sold, released, discarded, etc. Each species is to be identified separately. Use of market or generalized categories is to be avoided within species code fields or variables. | ITIS 11 digit character (Table A.8, Program Design) |
| Disposition | Fate of the product (i.e. releases, discards, bait, industrial use, personal consumption, marine mammal interactions, etc.). Disposition of releases and discards should be recorded (i.e. regulatory versus other releases and discards, dead or alive). | 3 digit character (Table A.5, Program Design) |
| Grade | Any grade categories that affect price, usually size related. | 2 digit numeric (Table A.7, Program Design) |
| Subsample Quantity | The amount, in whole pounds, numbers, or some other appropriate unit of measurement of each marine species that is landed, sold, released, discarded, etc. Quantity of protected species should be measured in numbers. This data element is linked to the units of measurement and disposition code for exact characterization of the quantity. For some species, especially protected species, these data are needed on a set basis. | 8 digit numeric plus two decimals |
| Units of Measurement | Units of measurement for quantity (i.e. each, pounds, bushels, etc). | 2 digit character (Table A.3, Program Design) |
| Estimated or Actual | How was quantity collected (0=actual, 1=estimated). | 1 digit character |

Table 8.H. (cont'd)

| Data Element | Description / Criteria | Format |
|---|--|-----------------------------------|
| Biological Sample Weight | Weight of subsample for biological sampling | 8 digit numeric plus two decimals |
| Minimum Data Required for Observed Entanglements | | |
| Field Number | Assigned by responding organization. Used to identify individual stranded animals. | |
| Haul Number | Sequential number for unique locations where gear was hauled, representing the number of hauls taken in a single trip by a vessel or individual. | 3 digit numeric |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit numeric |
| Entanglement Situation Code | <p>MUST BE ADDED TO APPENDIX A.5, ACCSP PROGRAM DESIGN</p> <p>00 - unknown 01 - fell from gear, point unknown 02 - fell from gear before exiting water 03 - fell from gear once out of water 04 - fell from gear due to force of roller 05 - removal requires cutting gear or animal 06 - removal does not require cutting gear/animal 99 - other</p> <p>Longline Gear Only</p> <p>07 - foul hooked, cut from gear 08 - foul hooked, removed from gear 10 - bird caught - gangion attached to line 11 - bird caught - gangion not attached to line</p> | 2 digit character |
| Net Number (gillnet only) | Consecutive number assigned to that net where the animal is entangled. | 2 digit numeric |
| Number of Floats (gillnet only) | Number of floats counted from where the animal is entangled to the nearest endline | 3 digit numeric |
| Meters Below Floatline | Indication of where in the gear the animal was captured. | 3 digit numeric |
| Taken on Set or Retrieval | Indication of when the animal was captured (1=set; 2=haul) | 1 digit character |

Table 8.H. (cont'd)

| Data Element | Description / Criteria | Format |
|--|--|---|
| Condition of Animal | Indication of the condition of the animal when released; record most appropriate code (0=unknown; 1=alive, condition unknown; 2=alive, not injured; 3=alive, injured; 4=alive, gear in/around mouth; 5=alive, gear in/around flipper; 6=alive, gear in/around another single body part; 7=alive, gear in/around multiple body parts; 8=alive, seen by captain/crew only; 10=dead, condition unknown; 11=dead, fresh; 12=dead, moderately decomposed; 13=dead, severely decomposed; 14=dead, seen by captain/crew; 99=other | 2 digit numeric |
| Comments | Include information on where gear is on the animal and what part of the gear entangled the animal | 50 digit character |
| Biological Information | | |
| Trip Identifier | Trip start, vessel or individual identifier and trip number (see vessel and trip information) | 21 digit character |
| Haul Number | Sequential number for unique locations where gear was hauled representing the number of hauls taken in a single trip by either a vessel or individual. | 3 digit numeric |
| Species | The species for each species of marine resources landed, sold, released, discarded, etc. Each species is to be identified separately. Use of market or generalized categories is to be avoided within species code fields or variables. | ITIS 11 digit character (Table A.8, Program Design) |
| Disposition | Fate of the product (i.e. releases, discards, bait, industrial use, personal consumption, marine mammal interactions, etc.). Disposition of releases and discards should be recorded (i.e. regulatory versus other releases and discards, dead or alive). | 3 digit character (Table A.5, Program Design) |
| Minimum Data for Marine Mammals | | |
| Species | Species of each marine mammal observed | ITIS 11 digit character (Table A.8, Program Design) |
| Photo(s) | Were photos taken? (0=no; 1=yes) – Photo should include the tag number and trip identifier, where applicable. | 1 digit numeric |
| Tag Code(s) | Indication of whether the tag is pre-existing or newly applied. (0=unknown; 1=taken without tag, then tagged; 2=taken without tag, and not tagged; 3=taken with a tag, and retagged; 4=taken with a tag, and not retagged). | 1 digit character |

Table 8.H. (cont'd)

| Data Element | Description / Criteria | Format |
|-------------------------------------|---|--|
| Length | Straight measurement as per protocols. | 10 digit numeric |
| Units of Measurement | Units of length (i.e., feet, meters, etc.). | 2 digit character (Table A.3, Program Design) |
| Length Type | Indicate whether length was measured or estimated (0=actual; 1=estimated) | 1 digit character |
| Gender | 1=male, 2=female, 3=unknown | 1 digit character |
| Biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Text Field | Comments or uncoded data | Text |
| Tag ID Number(s) | Tag number from pre-existing or newly applied tags. | 12 digit character |
| Minimum Data for Sea Turtles | | |
| Species | Species of each sea turtle observed | ITIS 11 digit character (Table A.8, Program Design) |
| Photo(s) | Were photos taken? (0=no; 1=yes) – Photo should include the tag number and trip identifier, where applicable. | 1 digit character |
| Tag ID Number(s) | All letters and numbers on pre-existing or newly applied tags. | 12 digit character |
| Tag Code(s) | Indication of whether the tag is pre-existing or newly applied. (0=unknown; 1=taken without tag, then tagged; 2=taken without tag, and not tagged; 3=taken with a tag, and re-tagged; 4=taken with a tag, and not re-tagged). | 1 digit character |
| Units of Measurement | Units of length (i.e., feet, meters, etc.). | 2 digit character (Table A.3, Program Design) |
| Length Type | Indicate whether length was measured or estimated (0=actual; 1=estimated) | 1 digit numeric |
| Straight Carapace Length | Straight length of carapace from notch to notch (requires use of calipers) | 5 digit numeric |
| Curved Carapace Length | Curved length of carapace from notch to notch (requires use of flexible measuring tape). | 5 digit numeric |

Table 8.H. (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|---|
| Straight Carapace Width | Straight width of carapace from notch to notch (requires use of calipers) | 5 digit numeric |
| Curved Carapace Width | Curved width of carapace from notch to notch (requires use of flexible measuring tape) | 5 digit numeric |
| Width Type | Indicate whether width was measured or estimated (0=actual; 1=estimated) | 1 digit numeric |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit numeric |
| Text Field | Comments or uncoded data | Text Field |
| Minimum Data for Fish and Crustaceans | | |
| Species | Species of fishes and crustaceans observed | ITIS 11 digit character (Table A.8, Program Design) |
| Photo | Were photos taken? (0=no; 1=yes) – Photo should include the tag number and trip identifier, where applicable. | 1 digit character |
| Length | Length measurement as per protocols. | 10 digit numeric |
| Units of Measurement | Units of length (i.e., feet, meters, etc.). | 2 digit character (Table A.3, Program Design) |
| Length Type | Type of length measurement (centerline, standard, total, etc). | 2 digit character (Table A.3, Program Design) |
| Gender | 1=male, 2=female, 3=unknown. | 1 digit character |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Minimum Data for Birds | | |
| Species | Species of observed birds | ITIS 11 digit character (Table A.8, Program Design) |
| Photo | Were photos taken? (0=no; 1=yes) – Photo should include the tag number and trip identifier, where applicable. | 1 digit character |
| Tag ID Number(s) | All letters and numbers on pre-existing or newly applied tags. | 12 digit character |
| Tag Code(s) | Indication of whether the tag is pre-existing or newly applied. | 1 digit character |

Table 8.H. (cont'd)

| | | |
|--------------------------------|--|-------------------|
| Gender | 1=male, 2=female, 3=unknown. | 1 digit character |
| Age Class | Indication of age class (1=immature, 2=mature, 3=unknown). | 1 digit character |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Text Field | Comments or uncoded data | Text Field |

| | |
|----------|--|
| Gear Log | See Tables 8.I. - 8.R. for specific data elements to be collected on each gear type and linked back to the haul log. |
|----------|--|

Table 22. Standard measurements of quantity of gear, fishing time, number of sets, time set and retrieved, and depth fished for specific gear types. These measurements must be used in the at-sea observer release/discard monitoring program to ensure consistency between programs.

| Type of Gear | Quantity | Fishing Time | Number of Sets | Time Set/retrieved | Depth Fished (REVIEW) |
|------------------------|---|--|------------------------------|--|--|
| Traps and Pots | Number traps pulled | Mean soak time | | Set: when first pot goes over Retrieved: from the moment buoy line is retrieved | Bottom depth |
| Trawls | Number of nets towed | Total tow time | Number of tows | Set: when winch stops Retrieved: when winch starts | Bottom of net |
| Gill Nets Entanglement | Total Net Length, number of sets to number of hauls | Soak time | Number of string (net) hauls | Set: when first buoy goes over Retrieved: when last buoy comes on board | Depth of floatline |
| Longlines | Number gangions/hooks | Soak time | Number of hauls | Set: start of set Retrieved: retrieval of set | Depth of set |
| Dredges | Number pulled | Total tow time | Number of tows | Set: when winch stops Retrieved: when winch starts | Bottom depth |
| Nets | Number of pieces of apparatus | Soak time | | Set: when first net goes over Retrieved: from the moment buoy line is retrieved | Bottom of net |
| Hook and Line | Number of lines (Number of hooks is secondary) | Soak time (not including transit time) | N/A | Set: when first lines are lowered Retrieved: when last lines are pulled up | Bottom fishing - bottom depth Trolling - average depth fished between set and retrieval |
| Purse Seines | Length of floatline | Soak time | Number of sets | Search Start: When nets placed in Search Stop: nets removed | Bottom depth |
| By Hand | N/A | Actively Fishing | N/A | N/A | Bottom depth |
| Spear and Gig | Number | Search time | N/A | N/A | N/A |
| Haul Seines | Length of net | Soak Time | | Set: seine in Retrieved: seine out | |

NOTE: Quantifiers must be assigned for each specific gear

Table 8.I. Specific gear data elements for gill net fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.).

| Data Element | Description / Criteria | Format |
|--------------------------------|---|---|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit numeric (Table A.4 Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit numeric |
| Gear Characteristics | | |
| Number of Net Panels | Total number of net panels used in the gear. | 2 digit numeric |
| Length of Net Panels | Average horizontal distance in feet of the net panel on the gear as measured along the floatline. | 3 digit numeric |
| Mesh Count, Vertical | Average number of vertical meshes for this gear type. | 2 digit numeric |
| Net Height | Average height of net measured in feet at the endline. | 2 digit numeric plus 1 decimal |
| Net Color | Color or combination of colors that best describe individual net panels (00=unknown, 01=clear, 02=white, 03=pink, 04=black, 05=green, 06=blue, 07=multicolor, 08=red, 09=orange, 10=purple, 98=combination, 99=other) | 2 digit character |

Table 8.I. (cont'd)

| Data Element | Description / Criteria | Format |
|----------------------------|--|--|
| Hanging Ratio | Average ratio of the number of meshes to the length of the floatline they are attached to. | 1 digit numeric plus 2 decimals |
| Minimum Mesh Size | Minimum mesh size of the net panels. To be collected only if panel mesh size is not recorded. | 2 digit numeric plus 2 decimals |
| Maximum Mesh Size | Maximum mesh size of the net panels. To be collected only if panel mesh size is not recorded. | 2 digit numeric plus 2 decimals |
| Minimum Twine Size | Minimum twine size of the net panels. To be collected only if panel twine size is not recorded. | 2 digit numeric (Table A.11 Program Design for conversions) |
| Maximum Twine Size | Maximum twine size the net panels. To be collected only if panel twine size is not recorded. | 2 digit numeric (Table A.11 Program Design for conversions) |
| Net Material | Type of material used to construct the majority of the net (0=unknown, 1=mono, 2=multi-mono, 3=multistrand, 9=other) | 1 digit character |
| Floatline Material | Type of material used to construct the majority of the floatline (0=unknown, 1=floating with foam core, 2=twisted poly, 9=other) | 1 digit character |
| Float Distance | Average distance in inches between floats; measured from center to center. | 2 digit numeric |
| Float Type | The material used to construct the majority of floats (0=unknown, 1=plastic, 2=styrofoam, 9=other) | 1 digit character |
| Float Diameter | Average float diameter measured in centimeters. | 2 digit numeric |
| Leadline Weight | Weight of leadline measured in pounds per 100 fathoms. | 3 digit numeric |
| Additional Leadline Weight | Total weight in pounds of additional weights added to leadline, not including the leadline weight. | 3 digit numeric |
| Length of Tiedowns | Average length of tiedown measured in feet | 1 digit numeric plus 1 decimal |

Table 8.I. (cont'd)

| Data Element | Description / Criteria | Format |
|---|---|--|
| Distance Between Tiedowns | Average distance between tiedowns measured in feet | 2 digit numeric plus 1 decimal |
| Length of Buoyline | Average length of buoyline in feet, measured from the floats at the water surface | 2 digit numeric |
| Anchor Weight | Total weight of anchor(s) in pounds holding gear in place | 3 digit numeric |
| # Nets at each Mesh Size | Number of nets and corresponding mesh size (next element), to the nearest 1/10 inch | 2 digit numeric |
| Mesh Size | Mesh size corresponding to # nets element | 2 digit numeric plus 1 decimal |
| Floatline Length | Length of floatline, in feet | 5 digit numeric |
| # Floats | Number of floats used | 5 digit numeric |
| Leadline Length | Length of leadline, in feet | 5 digit numeric |
| Space between Net Panels | Number of spaces used between nets | 3 digit numeric |
| Weighted Width of Spaces between Net Panels | To the nearest foot, the weighted average width of space(s) used between nets | 2 digit numeric |
| Number of Spaces | Total number of spaces between nets | 3 digit numeric |
| Anchor Method | Type of method used to anchor the gear (0=unknown, 1=tied to vessel only, 2=anchored only, 3=tied to vessel and anchored, 9=other). | 1 digit character |
| Net Information | | |
| Mesh Size | The distance between knot to knot of stretched mesh. | 2 digit numeric plus 2 decimals |
| Twine Size | Twine size derived from the diameter of the net webbing. | 2 digit numeric (Table A.11 Program Design for conversions) |
| Text Field | Comments or uncoded data | Text |

Table 8.J. Specific gear data elements for trawl fisheries (to be collected through a gear log and linked to the haul log - Table 8.H).

| Data Element | Description / Criteria | Format |
|--------------------------------|--|--|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit numeric (Table A.4 Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit numeric |
| Gear Characteristics | | |
| Net Name | Common name for net - if no common name, indicate net manufacturer and other relevant information. | 25 digit character |
| Net Position | Net position relative to vessel and other nets (1=out/port, 2=in/port, 3=in/stbd, 4=out/stbd, 5=trytrawl (comments on gear config sheet where fished), 6=stern trawl). | 1 digit numeric |
| Door Type | Common name of door type, include construction material | 25 digit character |
| Door Length | Length of the sled edge in feet | 4 digit numeric plus 2 decimals |
| Door Height | Height of door in feet. | 4 digit numeric plus 2 decimals |
| Door Weight | Weight of door in pounds. | 4 digit numeric |
| Net Construction Material Type | Primary construction material of net body (00=unknown, 01=nylon, 02=poly, 99=other). | 2 digit character |

Table 8.J. (cont'd)

| Data Element | Description / Criteria | Format |
|--|--|---------------------------------|
| Headrope Length | Length of headrope in feet. | 3 digit numeric plus 2 decimals |
| Footrope/Sweep Length | Length of footrope/sweep in feet. | 3 digit numeric plus 2 decimals |
| Ground Cable Length | Length of ground cable in feet. | 3 digit numeric plus 2 decimals |
| Top Bridle Length | Length of top bridle in feet. | 3 digit numeric plus 2 decimals |
| Bottom Bridle Length | Length of bottom bridle in feet. | 3 digit numeric plus 2 decimals |
| Number of Meshes in the Fishing Circle | Number of meshes at the area of largest opening in the net | 4 digit numeric |
| Mesh Size in the Fishing Circle | Size of mesh opening | 3 digit numeric plus 1 decimal |
| Mesh Type in the Fishing Circle | Type of mesh used in fishing circle (1=square, 2=diamond). | 1 digit character |
| Measurement Type in the Fishing Circle | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |
| Codend Hung | Hanging configuration of codend (1=diamond, 2=square, 3= square wrapped, 4=combination, 5=other, 6=unknown). | 1 digit character |
| Codend Twine Type | Twine type (number of strands) in codend of net (1=single, 2=double). | 1 digit character |
| Codend Twine Material | Material used to construct codend (00=unknown, 01=nylon, 02=poly, 99=other). | 2 digit character |
| Codend Twine Diameter | Diameter of twine used in codend in millimeters. | 2 digit numeric |
| Codend Mesh Size | Size of mesh opening in codend. | 3 digit numeric plus 1 decimal |
| Liner Used | Is a liner used in codend? (0=no, 1=yes) | 1 digit character |
| Liner Mesh Size | Size of liner mesh opening. | 3 digit numeric plus 1 decimal |
| Liner Mesh Type | Mesh type used in liner (1=square, 2=diamond). | 1 digit character |
| Codend Strengthened Used | Is a strengthener used on codend? (0=no, 1=yes) | 1 digit character |

Table 8.J (cont'd)

| Data Element | Description / Criteria | Format |
|--------------------------------|--|---------------------------------|
| Codend Chaffing Gear Used | Is chaffing gear used on codend? (0=none, 1=bottom half, 2=all the way around) | 1 digit character |
| Codend Length | Number of meshes in length of codend. | 3 digit numeric |
| Codend Circumference | Number of meshes in widest circumference in codend. | 3 digit numeric |
| Codend Mesh Size | Size of mesh opening in the codend. | 3 digit numeric plus 1 decimal |
| Codend Mesh Type | Mesh type used in codend (1=square, 2=diamond). | 1 digit character |
| Codend Measurement Type | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). This should be consistent for all mesh measurements. | 1 digit character |
| Graduated Mesh in Net Body | Is the mesh size used in the body of the net the same size throughout? (0=no, 1=yes) | 1 digit character |
| Minimum Mesh Size in Net Body | Size of opening of smallest mesh. | 3 digit numeric plus 1 decimal |
| Maximum Mesh in Net Body | Size of opening of largest mesh. | 3 digit numeric plus 1 decimal |
| Net Body Mesh Type | Mesh type used in net body (1=square, 2=diamond). | 1 digit character |
| Net Body Mesh Measurement Type | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). This should be consistent for all mesh measurements. | 1 digit character |
| Cable Type | Type of ground gear used on ground cable (0=none, 1=chain, 2=cable, 3=wrapped cable, 4=rock hopper, 5=roller, 6=rubber cookie, 7=bobbin, 9=other, 10=unknown). | 2 digit character |
| Cable Diameter | Maximum diameter in centimeters of ground gear. | 3 digit numeric plus 2 decimals |
| Leg/Bridle Type | Type of ground gear used on leg/bridle (0=none, 1=chain, 2=cable, 3=wrapped cable, 4=rock hopper, 5=roller, 6=rubber cookie, 7=bobbin, 9=other, 10=unknown). | 2 digit character |
| Leg/Bridle Diameter | Maximum diameter of leg/bridle in millimeters. | 3 digit numeric plus 2 decimals |
| Footrope Type | Type of ground gear used on footrope (0=none, 1=chain, 2=cable, 3=wrapped cable, 4=rock hopper, 5=roller, 6=rubber cookie, 7=bobbin, 9=other, 10=unknown). | 2 digit character |

Table 8.J (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|--|
| Footrope Diameter | Maximum diameter of footrope in millimeters. | 3 digit numeric plus 2 decimals |
| Trawl Extension Mesh Size | Size of mesh opening in the trawl extension. | 3 digit numeric plus 1 decimal |
| Trawl Extension Mesh Type | Mesh type used in the trawl extension (1=square, 2=diamond). | 1 digit character |
| Trawl Extension Mesh Measurement Type | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). This should be consistent for all mesh measurements. | 1 digit character |
| Tickler Chain Length | Length of chain in feet. | 3 digit numeric plus 2 decimals (0.0 = not used) |
| Tickler Chain Size | Stock size of the chain. | 2 digit numeric plus 2 decimals |
| Number of Floats on Headrope | Number of floats on headrope. | 2 digit numeric |
| Floatation Diameter | Maximum diameter of most common float size in centimeters. | 3 digit numeric plus 2 decimals |
| Loop Chain Length | Length of chain in feet. | 3 digit numeric plus 2 decimals (0.0=not used) |
| Data Element | Description / Criteria | Format |
| # of Links Per Loop | Number of chain links between two attachments to the footrope. | 2 digit numeric |
| # of Loops Per Net | Number of chain links between two attachments to the footrope. | 2 digit numeric |
| Type of Release/discard Reduction Device | The type of release/discard reduction device used in the trawl (0=none, 1=TED, 2=finfish excluder 3=finfish deflector, 4=combination 5=other, 6=unknown). | 1 digit character |
| Additional Gear Characteristics for Skimmer Trawls | | |
| Frame Material | Primary construction material of frame (1=aluminum, 2=steel, 9=unknown). | 1 digit character |
| Frame Width | Width of frame in feet. | 2 digit numeric plus 1 decimal |
| Shoe Length | Length of shoe in inches, which is attached to the outer, lower part of the frame. | 2 digit numeric plus 1 decimal |
| Loop Chain Size | Stock size of chain. | 2 digit numeric plus 2 decimal points |

Table 8.J. (cont'd)

| Data Element | Description / Criteria | Format |
|---|---|---|
| Weight of Bullet | Weight of bullet in pounds, which is attached to the inner, lower part of the frame and acts as a counterweight. | 3 digit numeric |
| Attachment Point of Tickler Chain | Distance from the footrope to the point of attachment of the tickler chain in inches. | 3 digit numeric |
| Net Body Material | Primary construction material of net body (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Codend Material | Primary construction material of codend (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Codend Twine Size | Twine size of codend in millimeters. | 2 digit numeric (Table A.11, Program Design for conversions) |
| Additional Gear Characteristics for Raised Footrope Trawls | | |
| Dropper Chain Size | Stock size of dropper chain. | 2 digit numeric plus 2 decimals |
| Dropper Chain Sweep Length | Sweep length of dropper chain in feet. | 3 digit numeric |
| Number of Vertical Dropper Chains | Number of vertical dropper chains. | 2 digit numeric |
| Length of Vertical Dropper Chains | Length of vertical dropper chains in feet. | 3 digit numeric plus 2 decimals |
| Gear Characteristics of Beam Trawls | | |
| Construction Material of Fishing Circle | Primary construction material of fishing circle (00=unknown, 01=nylon, 02=poly, 99=other). | 1 digit character |
| Number of Meshes in the Fishing Circle | Number of meshes at the area of largest opening in the net | 4 digit numeric |
| Mesh Size in the Fishing Circle | Size of mesh opening | 3 digit numeric plus 1 decimal |
| Mesh Type in the Fishing Circle | Type of mesh used in fishing circle (1=square, 2=diamond). | 1 digit character |
| Measurement Type in the Fishing Circle | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |

Table 8.J. (cont'd)

| Data Element | Description / Criteria | Format |
|-------------------------------|--|---------------------------------|
| Codend Material | Primary construction material of codend (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Codend Chaffing Gear Used | Is chaffing gear used on codend? (0=none, 1=bottom half, 2=all the way around) | 1 digit character |
| Codend Length | Number of meshes in length of codend. | 3 digit numeric |
| Codend Circumference | Number of meshes in widest circumference in codend. | 3 digit numeric |
| Codend Mesh Size | Size of mesh opening in the codend. | 3 digit numeric plus 1 decimal |
| Codend Mesh Type | Mesh type used in codend (1=square, 2=diamond). | 1 digit character |
| Codend Measurement Type | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). This should be consistent for all mesh measurements. | 1 digit character |
| Codend Twine Material | Material used to construct codend (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 2 digit character |
| Codend Twine Diameter | Diameter of twine used in codend in millimeters. | 2 digit numeric |
| Codend Liner Mesh Size | Size of mesh opening in codend (0=none used). | 3 digit numeric plus 1 decimal |
| Codend Liner Mesh Type | Mesh type used in codend (1=square, 2=diamond). | 1 digit character |
| Codend Liner Measurement Type | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). This should be consistent for all mesh measurements. | 1 digit character |
| Footrope Length | Length of footrope in feet. | 3 digit numeric plus 2 decimals |
| Footrope Type | Type of ground gear used on footrope (0=none, 1=chain, 2=cable, 3=wrapped cable, 4=rock hopper, 5=roller, 6=rubber cookie, 7=bobbin, 9=other, 10=unknown). | 2 digit character |
| Footrope Diameter | Maximum diameter of footrope in millimeters. | 3 digit numeric plus 2 decimals |

Table 8.J. (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|--|
| Headrope Length | Length of headrope in feet. | 3 digit numeric plus 2 decimals |
| Headrope Attachment Points | Points of attachment of headrope (1=all along length of beam, 2=outside edges of beam, 3=other, 9=unknown). | 1 digit character |
| Number of Floats on Headrope | Number of floats on headrope. | 2 digit numeric |
| Number of Bridles | Number of bridles per beam. | 2 digit numeric |
| Bridle Length | Length of bridle in feet. | 3 digit numeric plus 2 decimals |
| Bridle Attachment Points | Points of attachment of bridle (1=all along length of beam, 2=outside edges of beam, 3=other, 9=unknown). | 1 digit character |
| Location of Additional Weights | Location of additional weights. | 1 digit character |
| Weight of Additional Weights | Total weight of additional weights in pounds. | 3 digit numeric plus 2 decimals |
| Loop Chain Length | Length of chain in feet. | 3 digit numeric plus 2 decimals (0.0=not used) |
| Loop Chain Size | Stock size of chain. | 2 digit numeric plus 2 decimals |
| # of Links Per Loop | Number of chain links between two attachments to the footrope. | 2 digit numeric |
| # of Loops Per Net | Number of chain links between two attachments to the footrope. | 2 digit numeric |
| Type of Release/discard Reduction Device | The type of release/discard reduction device used in the trawl (0=none, 1=TED, 2=finfish excluder 3=finfish deflector, 4=combination 5=other, 6=unknown). | 1 digit character |
| Beam Weight | Weight of beam in pounds. | 3 digit numeric plus 2 decimals |
| Beam Shoe Width | Width of beam shoe in inches. | 2 digit numeric plus 1 decimal |
| Beam Width | Width of beam in feet. | 2 digit numeric plus 1 decimal |
| Beam Maximum Diameter | Maximum diameter of beam in centimeters. | 3 digit numeric plus 2 decimals |
| Beam Height | Height of beam in feet. | 2 digit numeric plus 1 decimal |

Table 8.J. (cont'd)

| Data Element | Description / Criteria | Format |
|--|--|---------------------------------------|
| Beam Fishing Opening Height | Height of beam fishing opening in feet. | 2 digit numeric plus 1 decimal |
| Beam Fishing Opening Width | Width of beam fishing opening in feet. | 2 digit numeric plus 1 decimal |
| Beam Material | Primary construction material of beam (0=unknown, 1=steel, 2=wood, 3=fiberglass, 9=other). | 1 digit character |
| Number of Rock Chains | Number of rock chains used (0=none used). | 2 digit numeric |
| Number of Tickler Chains | Number of tickler chains (0=none used). | 2 digit numeric |
| Chain Bag Used | Indication of whether a chain bag was used (0=no, 1=yes). | 1 digit character |
| Chaffing Gear Used on Chain | Indication of whether chaffing gear was used (0=no, 1=yes). | 1 digit character |
| Average Number of Links Between Rings in Chain | Number of links between rings. | 1 digit numeric |
| Inside Chain Ring Size (top of bag) | Inside diameter of rings in inches. | 2 digit numeric plus 2 decimal points |
| Inside Chain Ring Size (bottom of bag) | Inside diameter of rings in inches. | 2 digit numeric plus 2 decimal points |
| Chain Length | Number of rings from club, stick or terminal end of dredge to dredge frame. | 3 digit numeric |
| Text Field | Comments or uncoded data | Text |

Table 8.K. Specific gear data elements for longline fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.).

| Data Element | Description / Criteria | Format |
|--------------------------------|--|---|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit numeric (Table A.4 Program Design) |
| Gear Characteristics | | |
| Number of Hooks | Average hooks per set (round to nearest whole number) over the entire trip. | 4 digit numeric |
| Mainline Diameter | Diameter of mainline in millimeters. | 3 digit numeric plus 1 decimal |
| Mainline Test | Strength of line in pound strength. | 4 digit numeric |
| Mainline Material | Primary construction material of mainline (1=nylon, 2=cotton, 3=steel wire, 9=other). | 1 digit character |
| Number of Strands in Mainline | Number of strands in mainline. | 2 digit numeric |
| Mainline Color | Predominant colors used in the mainline (1=clear, 2=white, 3=pink, 4=black, 5=green, 6=blue, 7=multi-color, 8=red, 9=other). | 2 digit character |
| Dropline Minimum Length | Shortest dropline length in feet (rounded to nearest whole number). | 3 digit numeric |
| Dropline Maximum Length | Longest dropline length in feet (rounded to nearest whole number). | 3 digit numeric |
| Gangions Diameter | Diameter of gangions in millimeters. | 3 digit numeric plus 1 decimal |
| Gangions Test | Strength of line in pound strength. | 3 digit numeric |

Table 8.K. (cont'd)

| Data Element | Description / Criteria | Format |
|-----------------------------------|--|---|
| Gangions Material | Primary construction material of gangions (1=nylon, 2=cotton, 3=steel wire, 9=other). | 1 digit character |
| Distance Between Gangions | Distance between hooks (round in whole feet). | 4 digit numeric |
| Gangions Color | Predominant colors of gangions (1=clear, 2=white, 3=pink, 4=black, 5=green, 6=blue, 7=multi-color, 8=red, 9=other). | 2 digit character |
| Gangion Minimum Length | Shortest dropline length used in feet (rounded to nearest whole number). | 3 digit numeric |
| Gangion Maximum Length | Longest dropline length used in feet (rounded to nearest whole number). | 3 digit numeric |
| Leader Length | Average total length of leader (rounded to whole inches) (0=none used). | 4 digit numeric |
| Leader Test | Strength of line in pound strength. | 3 digit numeric |
| Leader Material | Type of leader material (1=nylon, 2=cotton, 3=steel wire, 9=other). | 1 digit character |
| Hook Brand | Manufacturer brand name. | 10 digit character |
| Hook Model/Pattern Number | Hook number assigned by manufacturer. | 10 digit character |
| Hook Size | Manufacturer hook size with slash included. | 4 digit character |
| Number of Light Sticks | Average total count of light sticks, calculated based on light sticks per set during trip (0=none used). | 4 digit numeric |
| Light Stick Color(s) | Predominant color of light sticks (1=clear, 2=white, 3=pink, 4=black, 5=green, 6=blue, 7=multi-color, 8=red, 9=other, 10=yellow, 11=purple). | 2 digit character |
| Number of Floats | Average total count of polyballs and/or dobs used per set for the trip (0=none used) | 3 digit numeric |
| Number of Hooks Between Floats | Total count of hooks (round to whole numbers) between floats. | 4 digit numeric |
| Anchor Weight | Total anchor weight in whole pounds (0=none used). | 3 digit numeric |
| Anchor Weight/Actual or Estimated | Indication of how weight was measured (1=actual, 2=estimated). | 1 digit numeric |
| Bait | Predominant species used as bait. | ITIS 11 digit character (Table A.8 Program Design) |
| Text Field | Comments or uncoded data | Limited to Text |

Table 8.L. Specific gear data elements for dredge fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.).

| Data Element | Description / Criteria | Format |
|---|--|---|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4 Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit character |
| Gear Characteristics | | |
| Dredge weight | Estimated weight of dredge frame and bag in pounds. | 5 digit numeric |
| Width of dredge shoe | Width of dredge shoe in inches at widest point. | 3 digit numeric plus 2 decimals |
| Number of Digby/Rock Buckets per dredge | Number of buckets on Digby dredge. | 2 digit numeric |
| Bucket Width | Width of bucket opening in inches. | 3 digit numeric plus 2 decimals |
| Bucket Height | Height of bucket opening in inches. | 3 digit numeric plus 2 decimals |
| Frame Height | Height of dredge frame in inches - bottom of cutting bar to top of pressure plate or top of frame. | 3 digit numeric plus 2 decimal points |
| Frame Width | Width of frame at the widest point in inches. | 3 digit numeric plus 2 decimal points |
| Fishing Opening Height | Height of fishing opening from bottom of cutting bar or shoe to bottom of upper frame in inches. | 3 digit numeric plus 2 decimal points |

Table 8.L. (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|---------------------------------|
| Fishing Opening Width | Inside measure of the widest point in dredge frame in feet. | 3 digit numeric plus 2 decimals |
| Cutting Bar Used | Type of cutting bar used (0=none, 1= bar only, 2 = bar with teeth, 8 = other, 9 = unknown). | 1 digit character |
| Angle of cutting bar/teeth | Angle of teeth or cutting bar in relation to horizontal in degrees. | 2 digit numeric |
| Depth of cutting bar/teeth | Maximum depth bar/teeth cut into sediment in inches. | 2 digit numeric plus 2 decimals |
| Teeth spacing | Space between teeth in inches. | 2 digit numeric plus 2 decimals |
| Pressure Plate Used | Indication of whether a pressure plate was used (0=no, 1=yes). | 1 digit character |
| Club Stick Used | Indication of whether a club stick was used (0=no, 1=yes). | 1 digit character |
| Twine Top Mesh Size | Size of mesh opening (0=no twine top used). | 3 digit numeric plus 1 decimal |
| Twine Top Mesh Type | Type of mesh used in the twine top (1=square, 2=diamond). | 1 digit character |
| Twine Top Measurement Type | Type of mesh measurement (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |
| Twine Top Height in Meshes | Number of meshes in length. | 2 digit numeric |
| Twine Top Width in Meshes | Number of meshes in width. | 2 digit numeric |
| Twine Top Height in Rings | Number of rings in length. | 2 digit numeric |
| Twine Top Width in Rings | Number of rings in width | 2 digit numeric |
| Number of Rock Chains | Number of rock chains used (0=none used). | 2 digit numeric |
| Number of Tickler Chains | Number of tickler chains (0=none used). | 2 digit numeric |
| Chain Bag Used | Indication of whether a chain bag was used (0=no, 1=yes). | 1 digit character |
| Chaffing Gear Used on Chain | Indication of whether chaffing gear was used (0 = no, 1=yes). | 1 digit character |
| Average Number of Links Between Rings in Chain | Number of links between rings. | 1 digit numeric |
| Inside Chain Ring Size (top of bag) | Inside diameter of rings in inches. | 2 digit numeric plus 2 decimals |

Table 8.L. (cont'd)

| Data Element | Description / Criteria | Format |
|--|--|---------------------------------|
| Inside Chain Ring Size (bottom of bag) | Inside diameter of rings in inches. | 2 digit numeric plus 2 decimals |
| Chain Length | Number of rings from clubstick or terminal end of dredge to dredge frame. | 3 digit numeric |
| Mesh Bag Chaffing gear used | Indication of whether chaffing gear was used (0=no, 1=yes). | 1 digit character |
| Mesh Bag Mesh Size | Size of mesh (0=no mesh bag used). | 3 digit numeric plus 2 decimals |
| Mesh Bag Mesh Type | Type of mesh used in the mesh bag (1=square, 2=diamond). | 1 digit character |
| Mesh Bag Measurement Type | Type of mesh measurement (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |
| Mesh Bag Length | Number of meshes in length. | 2 digit numeric |
| Mesh Bag Circumference | Number of meshes in fishing circle. | 3 digit numeric |
| Gear Characteristics for Hydraulic Escalator Dredge | | |
| Pump Capacity | Horsepower of pump. | 3 digit numeric |
| Intake or Suction Hose | Inside diameter of intake or suction hose in millimeters. | 2 digit numeric plus 1 decimal |
| Pressure Hose | Inside diameter of pressure hose in millimeters. | 2 digit numeric plus 1 decimal |
| Pressure Manifold or Head | Width between inside edge of sled runners in inches. | 3 digit numeric |
| Number of Nozzles on Manifold | Number of nozzles on manifold. | 2 digit numeric |
| Diameter of Nozzles | Inside diameter of nozzles in millimeters. | 2 digit numeric plus 1 decimal |
| Length of Nozzles | Length of nozzles in feet from point of attachment on manifold to opening of nozzle. | 2 digit numeric plus 1 decimal |
| Angle of Nozzle Attachment | Angle of nozzle measured from horizontal. | 2 digit numeric |
| Overall Length of Conveyor | Overall length of conveyor in feet measured from manifold to other end of conveyor belt where it reverses direction. | 2 digit numeric plus 1 decimal |
| Text Field | Comments or uncoded data | Text |

Table 8.M. Specific gear data elements for cast net fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.).

| Data Element | Description / Criteria | Format |
|--------------------------------|--|--|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4, Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit character |
| Gear Characteristics | | |
| Mesh size | Size of opening of largest mesh. | 4 digit numeric |
| Mesh Type | Type of mesh used in net (1=square, 2=diamond). | 1 digit character |
| Mesh Measurement Type | Type of mesh measure (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |
| Number of weights | Number of weights on the net. | 2 digit numeric |
| Individual Weight | Individual weight of lead line weights in ounces. | 2 digit numeric plus 2 decimals |

Table 8.M. (cont'd)

| Data Element | Description / Criteria | Format |
|-------------------|--|---------------------------------|
| Twine material | Type of twine material (1=mono, 2=multi). | 1 digit character |
| Breaking strength | Pound test of twine. | 2 digit numeric plus 2 decimals |
| Radius of gear | Radius of gear in feet. | 2 digit numeric plus 2 decimals |
| Modification | Are any modifications made to gear (strengtheners, etc) (0=no, 1=yes). | 1 digit character |
| Description | Description of modifications. | 50 character text |
| Text Field | Comments or uncoded data | Text |

Table 8.N. Specific gear data elements for fixed net (pound nets, weirs, etc.) fisheries (to be collected through a gear log and linked to the haul log - Table 8.H).

| Data Element | Description / Criteria | Format |
|---|---|---|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4, Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit character |
| Gear Characteristics-Bottom Staked Pound/Fyke & Hoop Nets (including floating trap nets) | | |
| Pound/Bowl Shape | Geometric shape of pound/bowl (0=unknown, 1=rectangular, 2=round/oval, 3=1/2 round, 4=cone, 5=trapezoid, 6=square, 7=diamond, 8=triangular, 9=other). | 1 digit character |
| Length/Diameter of Pound/Bowl | Length/diameter of gear in feet. | 2 digit numeric |
| Width | Width of gear in feet. | 2 digit numeric |
| Mesh Size | Predominant mesh size. | 3 digit numeric plus 1 decimal |
| Twine Size | Predominant twine size. | 3 digit numeric (Table A.11, Program Design for conversions) |

Table 8.N. (cont'd)

| Data Element | Description / Criteria | Format |
|---|--|--|
| Pound/Bowl Material | Predominant construction material (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Height of Pound | Height of pound in feet. | 3 digit numeric |
| Number of Pounds | Number of pounds, hoops etc. | 1 digit numeric |
| Bait Used (if applicable) | Bait used in the pound (i.e hoop nets used for shrimp). | ITIS11 digit character (Table A.8, Program Design) |
| Anchoring Method | Method of anchoring the net (1=stakes, 2=anchors) . | 1 digit character |
| Number of Pound Escape Vents | Total number of escape vents. | 2 digit numeric |
| Geometric Shape of Pound Escape Vent | Geometric shape of pound escape vent (0=unknown, 1=rectangular, 2=round/oval, 3=1/2 round, 4=cone, 5=trapezoid, 6=square, 7=diamond, 8=triangular, 9=other). | 1 digit character |
| Pound Escape Vent Length | Total length of pound escape vent in feet. | 2 digit numeric |
| Pound Escape Vent Width | Total width of pound escape vent in feet. | 2 digit numeric |
| Location of Pound Escape Vent | Location of pound escape vent. | 2 digit character |
| Pound Biodegradable Panel Attachment Type | Predominant type of degradable material used (0=none used, 1=iron hogrings, 2=degradable plastic, 3=softwood lathe, 4=uncoated wire). | 1 digit character |
| Leader Inshore Mesh Size | Predominant mesh size at nearshore end of net. | 3 digit numeric plus 1 decimal |
| Leader Trap Mesh Size | Predominant mesh size at trap entrance. | 3 digit numeric plus 1 decimal |
| Leader Inshore Twine Size | Predominant twine size at nearshore end. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Leader Trap Twine Size | Predominant twine size at trap entrance. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Leader Material | Predominant construction material of leader (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Leader Length | Total length of leader in feet. | 4 digit numeric |

Table 8.N. (cont'd)

| Data Element | Description / Criteria | Format |
|---------------------------|---|---|
| Leader Inshore Depth | Depth of leader at nearshore end, in feet. | 2 digit numeric |
| Leader Trap Depth | Depth of leader at trap entrance in feet (also end of leader). | 2 digit numeric |
| Leader Anchoring Material | Method of anchoring the net. | 1 digit character |
| Heart Length/Diameter | Length/diameter of heart in feet. | 2 digit numeric |
| Heart Width | Width of heart in feet. | 2 digit numeric |
| Heart Mesh Size | Predominant mesh size in heart. | 3 digit numeric plus 1 decimal |
| Heart Twine Size | Predominant twine size in heart. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Heart Material | Predominant construction material of heart. | 1 digit character |
| Heart Anchoring Method | Method of anchoring heart. | 2 digit character |
| Wing Inshore Mesh Size | Predominant mesh size at nearshore end of net. | 3 digit numeric plus 1 decimal |
| Wing Trap Mesh Size | Predominant mesh size at trap entrance. | 3 digit numeric plus 1 decimal |
| Wing Inshore Twine Size | Predominant twine size at nearshore end. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Wing Trap Twine Size | Predominant twine size at trap entrance. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Wing Material | Predominant construction material of leader (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Wing Length | Total length of wing in feet. | 4 digit numeric |
| Wing Inshore Depth | Depth of leader at nearshore end of net in feet. | 2 digit numeric |
| Wing Trap Depth | Depth of leader at trap entrance in feet (also end of leader). | 2 digit numeric |
| Number of Wings | Total number of wings in the net. | 2 digit numeric |
| Wing Anchoring Material | Method of anchoring the wings. | 1 digit character |
| Text Field | Comments or uncoded data | Text |

Table 8.O. Specific gear data elements for haul seine fisheries (to be collected through a gear log and linked to the haul log - Table 8.H).

| Data Element | Description / Criteria | Format |
|--|--|---|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4, Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit character |
| Gear Characteristics- Haul nets | | |
| Net Far End Mesh Size | Predominant mesh size at the far end of the net. | 3 digit numeric plus 1 decimal |
| Net Pocket Mesh Size | Predominant mesh size at the pocket. | 3 digit numeric plus 1 decimal |
| Net Far End Twine Size | Predominant twine size at the far end of the net. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Net Pocket Twine Size | Predominant twine size at the pocket. | 3 digit numeric (Table A.11, Program Design for conversions) |

Table 8.O. (cont'd)

| Data Element | Description / Criteria | Format |
|------------------------|---|---|
| Net Material | Predominant construction material of the net (00=unknown, 01=nylon, 02=poly, 03=Kevlar, 04=Spectra, 05=Tenex, 06=Nomex, 98=combination, 99=other). | 1 digit character |
| Net Length | Total length of the leader in feet. | 4 digit numeric |
| Net Depth | Depth at the ends of the wings in feet. | 2 digit numeric |
| Pocket Shape | Geometric shape of pound/bowl (0=unknown, 1=rectangular, 2=round/oval, 3=1/2 round, 4=cone, 5=trapezoid, 6=square, 7=diamond, 8=triangular, 9=other). . | 1 digit character |
| Pocket Length/Diameter | Length/diameter of the pocket in feet. | 4 digit numeric |
| Pocket Width | Width of the pocket in feet. | 2 digit numeric |
| Pocket Depth | Depth of the pocket in feet. | 2 digit numeric |
| Pocket Mesh Size | Predominant mesh size of the pocket. | 3 digit numeric plus 1 decimal |
| Pocket Twine Size | Predominant twine size of the pocket. | 3 digit numeric (Table A.11, Program Design for conversions) |
| Text Field | Comments or uncoded data | Text |

Table 8.P. Specific gear data elements for pot and trap fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.).

| Data Element | Description / Criteria | Format |
|-------------------------------------|---|--|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4, Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit |
| Gear Characteristics | | |
| Number of Pots | Number of pots per haul. | 3 digit numeric |
| Geometric Shape | Geometric shape of pots (0=unknown, 1=rectangular, 2=round/oval, 3=1/2 round, 4=cone, 5=trapezoid, 6=square, 7=diamond, 8=triangular, 9=other). | 2 digit character |
| Frame Primary Construction Material | Primary material (1=wood, 2=wire, 3=plastic, 9=other). | 2 digit character |
| Mesh Size | Mesh size of the pot or trap. | 2 digit numeric plus 2 decimals |
| Top Length | Length of the top of the predominant pot in whole inches. | 2 digit numeric |
| Top Width | Width of the top of the predominant pots in whole inches. | 2 digit numeric |
| Bottom Length | Length of the bottom of the predominant pot in whole inches. | 2 digit numeric |
| Bottom Width | Width of the bottom of the predominant pots in whole inches. | 2 digit numeric |

Table 8.P. (cont'd)

| Data Element | Description / Criteria | Format |
|---------------------------------|---|---|
| Height | Height of the predominant pots in whole inches. | 2 digit numeric |
| Distance Between Pots | Average distance between pots in feet. | 2 digit numeric |
| Number of Entrances | Number of entrances to the pot or trap. | 1 digit numeric |
| Geometric Shape of Entrance | Geometric shape of the entrance (0=unknown, 1=rectangular, 2=round/oval, 3=1/2 round, 4=cone, 5=trapezoid, 6=square, 7=diamond, 8=triangular, 9=other). | 2 digit character |
| Length of Entrance | Length of the entrance in inches. | 2 digit numeric |
| Width of Entrance | Width of the entrance in inches. | 2 digit numeric |
| Location of Entrance | Location of the entrance. | 2 digit character |
| Number of Escape Vents | Number of escape vents. | 1 digit numeric |
| Geometric Shape of Escape Vents | Geometric shape of escape vents (0=unknown, 1=rectangular, 2=round/oval, 3=1/2 round, 4=cone, 5=trapezoid, 6=square, 7=diamond, 8=triangular, 9=other). | 2 digit character |
| Length/Diameter of Escape Vents | Length of escape vents in inches. | 2 digit numeric |
| Width of Escape Vents | Width of escape vents in inches. | 2 digit numeric |
| Location of Escape Vents | Location of escape vents. | 2 digit character |
| Use of Biodegradable Panel | Is a biodegradable panel used (0=no, 1=yes). | 1 digit character |
| Attachment Type | Type of attachment of biodegradable panel. | 1 digit character |
| Bait | Predominant type of bait used. | ITIS11 digit character (Table A.8, Program Design) |
| Buoy Line Material | Predominant type of line material (need to develop list of materials). | 2 digit numeric |
| Buoy Line Diameter | Predominant line diameter in millimeters. | 1 digit numeric plus 2 decimals |
| Trot Line Material | Predominant type of line material (need to develop list of materials). | 2 digit character |
| Trot Line Diameter | Predominant line diameter in millimeters. | 1 digit numeric plus 2 decimals |
| Text Field | Comments or uncoded data | Text |

Table 8.Q. Specific gear data elements for purse seine fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.)

| Data Element | Description / Criteria | Format |
|--------------------------------|--|--|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4, Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit character |
| Gear Characteristics | | |
| Float Line Length | Length of floatline in feet. | 4 digit numeric |
| Float Line Diameter | Diameter of floatline in millimeters. | 2 digit numeric plus 2 decimals |
| Lead Line Length | Length of lead line in feet. | 4 digit numeric |
| Lead Line Diameter | Diameter of lead line in millimeters. | 2 digit numeric plus 2 decimals |
| Lead Line Weight | Total estimated weight of lead line in pounds. | 4 digit numeric plus 2 decimals |
| Type of Hauling Device | Device used to haul the net in (1=power block, 2=triplex, 3=drum, 9=other, 8-unknown). | 1 digit numeric |

Table 8.Q. (cont'd)

| Data Element | Description / Criteria | Format |
|---------------------------|---|---|
| Ring type | Type of ring used to hold purse line (1=round, 2=snap, 3=combo, 9=other). | 1 digit character |
| Ring Material | Material from which rings are constructed (1=steel, 2=iron, 3=alloy, 4=stainless, 5=combo, 9=other). | 1 digit character |
| Net Material | Material used in net, excluding bunt (1=nylon, 2=poly, 3=Kevlar, 4=Spectra, 9=other). | 1 digit character |
| Net Length | Total length of net in feet. | 4 digit numeric |
| Net Depth | Depth of net in feet. | 3 digit numeric |
| Net Twine Size | Diameter of twine in millimeters. | 2 digit numeric plus 1 decimal (Table A.11, Program Design for conversions) |
| Tom Weight | Additional total weight on the purse line in pounds used to control the depth of the purse line. | 4 digit numeric (0=none) |
| Net Mesh Size | Size of mesh in the net. | 3 digit numeric plus 2 decimals |
| Net Mesh Type | Type of mesh used in the net (1=square, 2=diamond). | 1 digit character |
| Net Mesh Measurement Type | Type of mesh measurement (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |
| Sack/Bunt Material | Material used in net, excluding bunt (1=nylon, 2=poly, 3=Kevlar, 4=Spectra, 9=other). | 1 digit character |
| Sack/Bunt Length | Total length of sack/bunt in feet. | 4 digit numeric |
| Sack/Bunt Depth | Depth of sack/bunt in feet. | 3 digit numeric |
| Sack/Bunt Mesh Size | Size of mesh in the sack/bunt. | 3 digit numeric plus 2 decimals |
| Sack/Bunt Mesh Type | Type of mesh used in the sack/bunt (1=square, 2=diamond). | 1 digit character |

Table 8.Q. (cont'd)

| Data Element | Description / Criteria | Format |
|---------------------------------|---|---|
| Sack/Bunt Mesh Measurement Type | Type of mesh measurement (1=stretched center knot to center knot, 2=stretched inside measure, 3=bar). | 1 digit character |
| Sack/Bunt Twine Size | Diameter of twine in sack/bunt in millimeters. | 2 digit numeric plus 1 decimal (Table A.11, Program Design for conversions) |
| Chase Boat Horsepower | Total horsepower of the boat. | 3 digit numeric |
| Chase Boat Gross Tonnage | Gross tonnage of the boat. | 3 digit numeric |
| Chase Boat Length | Total length of the chase boat in feet. | 2 digit numeric |
| Text Field | Comments or uncoded data | Text |

Table 8.R. Specific gear data elements for rake/ho/tong fisheries (to be collected through a gear log and linked to the haul log - Table 8.H.).

| Data Element | Description / Criteria | Format |
|---|--|--|
| Header Information | | |
| Observer Identification Number | Unique certification number provided by the ACCSP at-sea observer training program. | To be developed |
| Trip Unique Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information). | 21 digit character |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Unloading Date | The date of unloading at the dealer (may be more than one unloading date per trip). | MM/DD/YYYY |
| Gear Information | | |
| Gear Code | The type of gear used to catch the marine resource. | 3 digit character (Table A.4, Program Design) |
| Gear Number | Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described. | 2 digit character |
| Gear Characteristics- Rakes/Tongs/Hoes | | |
| Operating Mechanism | Method of operation (1=mechanical, 2=hand, 3=hydraulic, 4 = sail). | 2 digit character |
| Shaft Length | Length of shaft/handle in feet. | 2 digit numeric |
| Width | Width of entire tongs, rakes, hoes in inches. | 2 digit numeric |
| Length of Tines/Teeth | Length of tines/teeth in inches. | 2 digit numeric plus 2 decimals |
| Spacing of Tines/Teeth | Spacing of tines/teeth in inches. | 2 digit numeric plus 2 decimals |
| Bar Spacing | Bar spacing in inches. | 2 digit numeric plus 2 decimals |
| Weight of Tongs | Total weight of tongs in pounds. | 2 digit numeric |
| Text Field | Comments or uncoded data | Text |

Table 8.S. Minimum standard data elements to be collected through the ACCSP at-sea observer program for collection of quantitative release, discard, and protected species interactions data for the for-hire fisheries.

| Data Element | Description / Criteria | Format |
|----------------------------------|--|--|
| Vessel Information | | |
| Vessel Identifier | Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space. | 11 digit character |
| Vessel Name | Name of vessel. | 20 digit character |
| Fishing Party Size | Number of fishermen in the party. | 3 digit numeric |
| Actual Number of Anglers Fishing | Number of anglers actually fishing on the vessel. | 3 digit numeric |
| Individual Identifier | An identifier unique to an individual (i.e. operator license number) traceable through time and space. | 11 digit character |
| Individual Operator | Name of vessel owner/operator | 30 digit character |
| Trip Information | | |
| Form Type/Version Number | Version identification number for the ACCSP reporting form. | 12 digit alphanumeric |
| Trip start | Date the trip started (this is unique to each trip and can be used to tie multiple unloadings into a trip record). A trip is shore to shore by gear/area combination, or in the case of transfers at sea, an off-loading at sea is a trip. This information should include trips with effort but no catch. | MM/DD/YYYY |
| Trip Number | Sequential number representing the number of trips taken in a single day by either a vessel or individual. The trip number will default to "one" when only a single trip is conducted. | 2 digit character |
| Time left dock | The time the vessel left the dock | MO:DD:HH:MM |
| Time returned | The time the vessel returned to the dock. | MO:DD:HH:MM |
| Drop Information | | |
| Trip Identifier | Trip start, vessel or individual identifier, and trip number (see vessel and trip information) | 21 digit character |
| Drop Number | Sequential number for unique location / gear taken in a single trip. | 3 digit character |
| Drop Observed | Indication of whether the drop was actually observed (0=no, 1=yes). | 1 digit character |
| Lat Begin | The latitude at the beginning of the drop. | 6 digit numeric plus 1 character (2 decimal minutes) |

Table 8.S. (cont'd)

| Data Element | Description / Criteria | Format |
|----------------------|---|--|
| Long Begin | The longitude at the beginning of the drop. | 7 digit numeric plus 1 character (2 decimal minutes) |
| Lat End | The latitude at the end of the drop. | 6 digit numeric plus 1 character (2 decimal minutes) |
| Long End | The longitude at the end of the drop. | 7 digit numeric plus 1 character (2 decimal minutes) |
| Fishing Method | Type of fishing method used (i.e., bottom, troll, surface, fly, drift, chumming, midwater). | 3 digit character |
| Distance from Shore | The distance from shore where fishing occurred [inland (less than 0 nautical miles...nm), nearshore (0-3 nm on Atlantic coast, 0-9 nm on Florida and Texas Gulf coast), EEZ (3-200 nm on Atlantic coast, 9-200 nm on Florida and Texas Gulf coast), territorial seas (in the USVI and Puerto Rico (12 nm), and international (>200 nm)] is embedded in this code. (See Table A.3. and area figures when revised). | 1 digit character (Table A.3, Program Design.) |
| Start Time | The time the captain indicates that fishing can begin. Used with time gear retrieved to derive fishing time. | MO:DD:HH:MM |
| Stop Time | The time that the captain indicates to haul in fishing lines. Used with time set to derive fishing time. | MO:DD:HH:MM |
| Depth Fished | Depth at which the gear is fished (fathoms) (1 = surface, 2 = midwater, 3 = bottom). | 1 digit character |
| Minimum Bottom Depth | Minimum depth of bottom in fathoms. | 4 digit numeric plus 1 decimal point |
| Maximum Bottom Depth | Maximum depth of bottom in fathoms. | 4 digit numeric plus 1 decimal point |
| Subsample Log | | |
| Trip Identifier | Trip start, vessel or individual identifier and trip number (see vessel and trip information) | 21 digit character |

Table 8.S. (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|---|
| Drop Number | Sequential number for unique location / gear taken in a single trip. | 3 digit character |
| Species | The species for each species of marine resources landed, sold, released, discarded, etc. Each species is to be identified separately. Use of market or generalized categories is to be avoided within species code fields or variables. | ITIS11 digit character (Table A.8,Program Design) |
| Disposition | Fate of the catch (i.e. releases, discards, bait, industrial use, personal consumption, protected species interactions, etc.). Disposition of releases and discards should be recorded (i.e. regulatory versus other releases and discards, dead or alive). | 3 digit character (Table A.5, Program Design) |
| Quantity Observed (Replaces Quantity Kept) | The amount, in numbers, of each marine species recorded by a trained observer. | 4-digit numeric |
| Quantity Reported (Replaces Quantity Kept) | The amount, in numbers, of each marine species reported by fishermen | 4 digit numeric |
| Estimated or Actual | How was quantity collected (1=actual, 2=estimated). | 1 digit character |
| <i>Biological Data Information</i> | | |
| Trip Identifier | Trip start, vessel or individual identifier and trip number (see vessel and trip information) | 21 digit character |
| Drop Number | Sequential number for unique location / gear taken in a single trip. | 3 digit character |
| Species | The species for each species of marine resources landed, sold, released, discarded, protected species, etc. Each species is to be identified separately. Use of market or generalized categories is to be avoided within species code fields or variables. | ITIS11 digit character (Table A.8,Program Design) |
| Minimum Data for Marine Mammals | | |
| Species | Species of marine mammals observed | ITIS 11 digit character (Table A.8, Program Design) |
| Photo(s) | Were photos taken? (0=no; 1=yes) Photo should include the tag number and trip identifier, where applicable. | 1 character numeric |

Table 8.S. (cont'd)

| Data Element | Description / Criteria | Format |
|-------------------------------------|---|--|
| Tag ID Number(s) | All letters and numbers on pre-existing or newly applied tags. | 12 digit character |
| Tag Code(s) | Indication of whether the tag is pre-existing or newly applied. (0=unknown; 1=taken without tag, then tagged; 2=taken without tag, and not tagged; 3=taken with a tag, and retagged; 4=taken with a tag, and not retagged). | 1 digit character |
| Length | Straight measurement as per protocols. | 10 digit numeric |
| Units of Measurement | Units of length (i.e., feet, meters, etc.). | 2 digit character (Table A.3, Program design) |
| Length Type | Indicate whether length was measured or estimated (0=actual; 1=estimated) | 1 digit character |
| Gender | Gender of the species (1=male, 2=female, 3=unknown). | 1 digit character |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Text Field | Comments or uncoded data | Text |
| Minimum Data for Sea Turtles | | |
| Species | Species of sea turtles observed | ITIS 11 digit character (Table A.8, Program Design) |
| Photo(s) | Were photos taken? (0=no; 1=yes) Photo should include the tag number and trip identifier, where applicable. | 1 digit character |
| Tag ID Number(s) | All letters and numbers on pre-existing or newly applied tags. | 12 digit character |
| Units of Measurement | Units of length (i.e., feet, meters, etc.). | 2 digit character (Table A.3, Program Design) |
| Length Type | Indicate whether length was measured or estimated (0=actual; 1=estimated) | 1 digit character |
| Width Type | Indicate whether width was measured or estimated (0=actual; 1=estimated) | 1 digit character |

Table 8.S. (cont'd)

| Data Element | Description / Criteria | Format |
|--|---|---|
| Straight Carapace Length | Straight length of carapace from notch to notch (requires use of calipers) | 5 digit numeric |
| Curved Carapace Length | Curved length of carapace from notch to notch (requires use of flexible measuring tape) | 5 digit numeric |
| Straight Carapace Width | Straight width of carapace from notch to notch (requires use of calipers) | 5 digit numeric |
| Curved Carapace Width | Curved width of carapace from notch to notch (requires use of flexible measuring tape) | 5 digit numeric |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Text Field | Comments or uncoded data | Text |
| Minimum Data for Fish and Crustaceans | | |
| Species | Species of fish/crustaceans observed | ITIS 11 digit character (Table A.8, Program Design) |
| Trip Identifier | Trip start, vessel or individual identifier and trip number (see vessel and trip information). | 21 digit character |
| Photo | Were photos taken? (0=no; 1=yes) Photo should include the tag number and trip identifier, where applicable. | 1 digit character |
| Length | Length measurement in millimeters as per protocols. | 10 digit numeric |
| Units of Measurement | Units of length (i.e., feet, meters, etc.). | 2 digit character (Table A.3, Program Design) |
| Length Type | Type of length measurement (standard, total, etc). | 2 digit character (Table A.3, Program Design) |
| Gender | Gender of the species (1=male, 2=female, 3=unknown). | 1 digit character |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Trip Identifier | Trip start, vessel, or individual identifier and trip number (see vessel and trip information) | 21 digit character |
| Species | Bird species observed | ITIS 11 digit character (Table A.8, Program Design) |
| Photo | Were photos taken? (0=no; 1=yes) Photo should include the tag number and trip identifier, where applicable. | 1 digit character |
| Tag ID Number(s) | All letters and numbers on pre-existing or newly applied tags. | 12 digit character |
| Tag Code(s) | Indication of whether the tag is pre-existing or newly applied. | 1 digit character |

Table 8.S. (cont'd)

| Minimum Data for Birds | | |
|--------------------------------|--|-------------------|
| Data Element | Description / Criteria | Format |
| Gender | Gender of the species (1=male, 2=female, 3=unknown). | 1 digit character |
| Age Class | Indication of age class (1=immature, 2=mature, 3=unknown). | 1 digit character |
| Were biological samples taken? | Indication of whether biological samples were taken (0=no, 1=yes). | 1 digit character |
| Text Field | Comments or uncoded data | Text |

TABLE 8.T. ACCSP release/discard prioritization process for identifying Atlantic coast commercial, recreational and for-hire fisheries requiring collection of more detailed gear configuration data or collection of release/discard data at a more detailed level of resolution.

| Activity | Specific Task |
|---|--|
| Characterize Atlantic coast fisheries | Compile information on commercial and fisheries, including release/discard activities. Annually update information. |
| Annually review documentation | Fisheries characterization information < qualitative and quantitative data obtained through the at-sea observer, strandings, entanglements, fishermen reporting, and port interviewing programs < target sampling levels for biological sampling based on recommendations from the Biological Review Panel |
| Identify problem areas and make recommendations | Based on annual data review, develop recommendations and modifications which may include: < increase sampling levels < collection of more detailed gear configuration information < collection of data at a more detailed level of resolution (set/tow) < collection of intensive biological samples |
| Implementation | Implement recommended modifications to existing at-sea observer programs and other quantitative release/discard monitoring programs. |