Atlas Client Table and Column Comments

Table Name BIRD_AGE

Table Comments This entity resolves the intersection of a bird interaction species and the age categories. An interaction may include multiple age classes of that species.

Column Name	Column Comments
NUMBER_OF_ANIMALS	Number of birds of this species of this age category
BIRD_AGE_SEQ	Sequence Generated Unique identifier for a bird age record
AGE_CATEGORY_CODE	Unique code for classifying bird age
SPECIMEN_SEQ	Sequence generated unique identifier of a bird specimen.
INTERACTION_SPECIES_SEQ	Sequence generated unique identifier for an species interaction record

Table Name BIRD_EVENT

Table Comments This entity records bird interactions characterized by type, that may occur at either the haul, offload or at the trip level. Each interaction is recorded separately and may be for multiple animals.

Column Name	Column Comments
LONGITUDE_EW	Identifies the logitude as E(ast) or W(est)
LONGITUDE_SECONDS	Longitude at which the interaction with a bird occured.
LONGITUDE_MINUTES	Longitude at which the interaction with a bird occured.
LONGITUDE_DEGREE	Longitude at which the interaction with a bird occured.
BIRD_EVENT_SEQ	Sequence generated unique identifier of a bird interaction event.
EVENT_NUMBER	User defined event reference number which is unique within a cruise.
TRIP_SEQ	Sequence generated unique identifier of a trip
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
HAUL_SEQ	Sequence generated unique identifier for a haul record
BEAUFORT_CODE	International Beaufort Sea State Code
DETERRENT_USED_CODE	Unique code dientifying the reason for the use or absence of a bird deterrence strategy.
LOCATION_CODE	Unique code identifying the location of the bird at the first observation
WEATHER_CODE	Unique weather code
FISHERY_CODE	Unique Abbreviated code for a fishery as defined by the observer.
INTERACTION_DATE_TIME	Date the interaction was observed. If an interaction record is related to an offload or a haul this date is inferred as the haul date or offload end date. If the interaction is related to a trip the interaction date is mandatory.
COMMENTS	Observer entered comments regarding this interaction.
LATITUDE_DEGREE	Latitude at which the interaction with a bird occured.
NUMBER_OF_ANIMALS	Number of animals involved with this interaction
LATITUDE_SECONDS	Latitude at which the interaction with a bird occured.
LATITUDE_MINUTES	Latitude at which the interaction with a bird occured.

Table Name BIRD_INTERACTION_DETERRENT

Table Comments This entity resolves the intersection of a bird deterrent code and a bird interaction. Multiple deterrents are allowed none are mandatory.

Column Name	Column Comments
COMMENTS	Problems with deployment of deterrent device or details of type of deterrent.
BIRD_EVENT_SEQ	Sequence generated nique identifier of a bird interaction
DETERRENCE_CODE	Unique code identifying a bird deterrent.
ANIMAL_TYPE_CODE	Class of animal mammal (M), bird (B) for which the deterrence was utilized

Table Name BIRD_INTERACTION_OUTCOME

Table Comments This entity represents the intersection of an interaction type, and the outcome of that interaction to the general interaction, for an identified species. Outcomes are strictly optional and may not be recorded for every interaction.

Column Name	Column Comments
INTERACTION_CODE	Unique code identifying a list of the currently valid avian interactions identified with gear, vessels, and offloads.
OUTCOME_CODE	Unique code identifying the condition of the bird after this interaction
INTERACTION_SPECIES_SEQ	Sequence generated unique identifier for an species interaction record
INTERACTION_OUTCOME_SEQ	Sequence generated unique identifier of a bird event interaction.
COMMENTS	Discussion of the interaction type and it's outcome at the event or specimen level.

Table Name BIRD_INTERACTION_SPECIES

Table Comments This entity represents the intersections of a bird interaction with one or more species which may be identified through mutually exclusive foreign keys with lov_species or species_composition.

Column Name	Column Comments
SPECIES_CONFIDENCE_CODE	Code (Domain) identifying level of observer confidence in his-her species identification.
GOOD_LOOK_CODE	Code (Domain) which describes how the level of the observation of this bird.
NUMBER_OF_ANIMALS	Numbers of animals of this species
SPECIES_CODE	Unique identifier for a species imported from Norpac
SPECIES_COMPOSITION_SEQ	Sequence Generated unique identifier of a species composition record
COUNT_TYPE_CODE	Unique code describing how the number of animals field is determined. Except for a type of specific the grouping is an estimate and number is not required.
BIRD_EVENT_SEQ	Sequence generated unique identifier of a bird interaction event.
INTERACTION_SPECIES_SEQ	Sequence generated unique identifier for an species interaction record
COMMENTS	Colors on head, eye erea, bill, legs, back, wings, bill size etc.

Table Name BIRD_SPECIES_TAG

Table Comments This entity represents the tag or leg band(s) observed on an individual animal. It requires that a specimen record be created even if the band(s) are only noted and described.

Column Name	Column Comments
TAG_NUMBER	If a tag is present and if read this field records the USFWS number or other number.
TAG_SEQ	sequence generated unique identifier for this tag record.
TYPE_CODE	Unique code identifying the type of recovered tag.
LOCATION_CODE	Unique Code for the found location of a bird tag. For example rtleg;
COLOR_CODE	Color Code
SPECIMEN_SEQ	Sequence generated unique identifier of a bird specimen.
POSITION_CODE	Position on the leg of a bird reletive to other bands 1 = Only Band, 2 = Top, 3 = 2nd, 4 = 3rd, 5 = 4th.

Table Name BIRD_SPECIMEN

Table Comments This entity represents the avian specimen which has been chosen for additional biota sampling, preservation, tag recording, or may be representative of a larger group of birds of the same species. A specimen need not be a fatality. It may be an animal that was captured for tag examination and released alive and unharmed. The key is it is a single animal.

Column Name	Column Comments

Table Name BIRD_SPECIMEN

Table Comments This entity represents the avian specimen which has been chosen for additional biota sampling, preservation, tag recording, or may be representative of a larger group of birds of the same species. A specimen need not be a fatality. It may be an animal that was captured for tag examination and released alive and unharmed. The key is it is a single animal.

Column Name	Column Comments
COMMENTS	Discussion of bird specimen.
SPECIMEN_SEQ	Sequence generated unique identifier of a bird specimen.
SPECIMEN_NUMBER	User defined uniqe within a specime type identifier. May be a bar code tag.
SPECIMEN_TYPE_CODE	The list of unique type codes associated with a bird specimen.
INTERACTION_SPECIES_SEQ	Sequence generated unique identifier for an species interaction record

Table Name BIRD_VESSEL_INTERACT_ACTIVITY

Table Comments This entity resolves the intersection between the list of valid events (interactions) that may be observed with a vessel, and the bird event (interaction) record.

Column Name	Column Comments
BIRD_EVENT_SEQ	Sequence generated unique identifier of a bird interaction event.
ACTIVITY_CODE	Unique code for bird activity.

Table Name CRUISE_PLANT

Table Comments The intersection of an observer cruise and a processing plant.

Column Name	Column Comments
PLANT_SEQ	Sequence generated unique identifier for a processing plant.
CRUISE_PLANT_SEQ	Sequence generated unique value for a cruise plant record.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.

Table Name CRUISE_VESSEL

Table Comments The intersection of an observer cruise and a vessel

Column Name	Column Comments
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel.
VESSEL_SEQ	Unique Code identifying a vessel - inherited from the NORPAC data set. Generated by logistics staff.

Table Name FISHING_TIME_LOST

Table Comments Fishing time lost contains the number of hours and reasons for lost fishing time during a trip.

Column Name	Column Comments
TRIP_SEQ	Sequence generated unique identifier of a trip
HOURS	Number of hours lost rounded to the nearest hour.
TIME_LOST_CODE	Reason code for lost fishing time.

Table Name FISH_INV_SPECIMEN

Table Comments This entity represents the finfish or invertebrate specimen which has been chosen for additional biota sampling from the length sample of animals.

Table Name FISH_INV_SPECIMEN

Table Comments This entity represents the finfish or invertebrate specimen which has been chosen for additional biota sampling from the length sample of animals.

Column Name	Column Comments
SPECIES_CODE	Unique identifier for a species imported from Norpac, and the FK value from species_maturity.
SPECIMEN_TYPE	Unique numeric value for a specimen type record.
SPECIMEN_SEQ	Sequence generated unique identifier of a specimen record.
MATURITY_SEQ	Sequence generated unique identifier of a maturity record.
SPECIMEN_NUMBER	A specimen number is unique within a length, species, specimen type and cruise permit. It is auser defined identifier, and In the case of an otolith it is the bar coded sample identifier attached to the collection vial.
WEIGHT	Weight in kg of the specimen.
LENGTH_SEQ	Sequence generated unique identifier for a length record

Table Name FISH_TICKET

Table Comments This entity represents the fish ticket preprared from an offload event.

Column Name	Column Comments
FISHTICKET_NUMBER	
FISH_TICKET_SEQ	Sequence within offload parent
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record

Table Name FMA_TRIP

Table Comments An FMA trip is defined as the time between when a vessel casts off lines and ties up. There may be times where a vessel trip doesn't consist of any fishing. Even though no fishing took place a trip record still musy be created when a transit, offload or observer transfer takes place.

Column Name	Column Comments
START_LONGITUDE_DEGREE	Longitude of embarkation in degrees.
START_LATITUDE_SEC	Latitude of embarkation in seconds.
START_LONGITUDE_SEC	Longitude of embarkation in seconds.
START_EW	East West longitude identifier for Embarkation.
END_DATE	Date of landing, tying up to a mothership, transfer of fish between codends or other interaction signifying the ending of a trip.
END_LATITUDE_DEGREE	Latitude of disembarkation in degrees.
END_LATITUDE_MIN	Latitude of disembarkation in minutes
END_LATITUDE_SEC	Latitude of disembarkation in seconds
END_LONGITUDE_DEGREE	Longitude of disembarkation in degrees.
END_LONGITUDE_MIN	Longitude of disembarkation in minutes
END_LONGITUDE_SEC	Longitude of disembarkation in seconds
END_EW	East West longitude identifier for Disembarkation.
CREW_SIZE	Number of personnel on the vessel.
DID_FISHING_OCCUR_FLAG	Idetifies whether fishing took place or not.
FISH_IN_HOLD_AT_START_FLAG	Identifies whether there were fish present in the hold at the start of a fishing trip.
COMMENTS	Any specific comments an observer might make in regards to this trip. In particular comments are required to documented lost fishing time.
START_LATITUDE_MIN	Latitude of embarkation in minutes.
START_LATITUDE_DEGREE	Latitude of embarkation in degrees.
START_DATE	Date of embarkation.

Atlas Client Table and Column Comments

Table Name FMA_TRIP

Table Comments An FMA trip is defined as the time between when a vessel casts off lines and ties up. There may be times where a vessel trip doesn't consist of any fishing. Even though no fishing took place a trip record still musy be created when a transit, offload or observer transfer takes place.

Column Name	Column Comments
BAIT_USED_SEQ	Sequence generated unique identifier of a bait used record
DISEMBARKED_PORT_CODE	User defined unique identifier of a port currently limited to 1 - 12
EMBARKED_PORT_CODE	User defined unique identifier of a port currently limited to 1 - 12
TRIP_NUMBER	Number which is entered by the observer identifying a unique within a cruise - vessel combination. Since records are not physically deleted, trigger code preserves uniqueness by allowing only a single active record to exist (delete_marker IS NOT NULL).
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel.
TRIP_SEQ	Sequence generated unique identifier of a trip
START_LONGITUDE_MIN	Longitude of embarkation in minutes.

Table Name HAUL

Table Comments Hauls are unique fishing events of gear deployment and retrieval and may also contain information unique to a day where no fishing occured.

Column Name	Column Comments
HAUL_SEQ	Sequence generated unique identifier for a haul record
BIRD_HAULBACK_CODE	Portion of the haulback that was monitored by the observer for bird interactions.
TRIP_SEQ	Sequence generated unique identifier of a trip
SAMPLE_UNIT_CODE	Unique code identifying the unit of measure for a sampling design. Sample Design and units are mandatory at the haul level and optional at the sample level.
SAMPLE_SYSTEM_CODE	Unique numeric identifier of a sample coding system.
HAUL_PURPOSE_CODE	Haul data may be utilized for catch accounting, stock assessment, or for various special projects. This field is entered by the observer and not validated by ATLAS. Validation is performed when loaded into the production NORPAC data set.
CDQ_CODE	Unique AlphaNumeric code representing a CDQ or research group
DELIVERY_VESSEL_ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table.
GEAR_PERFORMANCE_CODE	Unique performance code for a gear type.
RBT_CODE	Currently limted to Y (es) or N(o)
VESSEL_TYPE	Unique identifier of a vessel type
GEARTYPE_FORM	Form that the gear is valid for. For example the gear may be Unknown for a delivery but will always be determined for a haul.
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
RST_CODE	
DETERRENCE_CODE	Deterrence code from NORPAC bird or mammal deterance tables
DETERRENCE_ANIMAL_TYPE	Optional FK from LOV_Deterrence. Class of animal mammal (M), bird (B) for which the deterrence (if it exists) was utilized
LOCATION_CODE	Identifies whether the information in a haul is based on retrieval or delivery (as in a mother ship)
RETRV_DATE_TIME	Date and time recorded by the observer from the vessel log.
RETRV_LATITUDE_DEGREES	Location of gear retrieval.
RETRV_LATITUDE_MINUTES	Location of gear retrieval.
RETRV_LATITUDE_SECONDS	Location of gear retrieval.
RETRV_EW	Location of gear retrieval.
RETRV_LONGITUDE_DEGREES	Location of gear retrieval.

Table Name HAUL

Table Comments Hauls are unique fishing events of gear deployment and retrieval and may also contain information unique to a day where no fishing occured.

Column Name	Column Comments
RETRV_LONGITUDE_MINUTES	Location of gear retrieval.
RETRV_LONGITUDE_SECONDS	Location of gear retrieval.
DEPLOY_DATE_TIME	Date and time recorded by the observer from the vessel log.
DEPLOY_LATITUDE_DEGREES	Location of gear deployment.
DEPLOY_LATITUDE_MINUTES	Location of gear deployment.
DEPLOY_LATITUDE_SECONDS	Location of gear deployment.
DEPLOY_EW	Location of gear deployment.
DEPLOY_LONGITUDE_DEGREES	Location of gear deployment.
DEPLOY_LONGITUDE_MINUTES	Location of gear deployment.
DEPLOY_LONGITUDE_SECONDS	Location of gear deployment.
BOTTOM_DEPTH	Average bottom depth recorded by the observer from the vessel log.
FISHING_DEPTH	Average fishing depth recorded by the observer from the vessel log.
DEPTH_METER_FATHOM	Identifies whether depth is recorded in meters or fathoms.
VESSEL_EST_CATCH	Total catch weight in metric tons as recorded in the vessel log.
OBSVR_EST_CATCH	Total catch weight as estimated by the observer in KG.
OBSVR_EST_METHOD	Method used to determine the observer estimated catch
OBSVR_EST_DISCARDS	Observer estimate of total discards in KG
DENSITY	Density used by the observer to determine the total catch weights computed in KG per M3.
VOLUME	Estimate of volume of catch in cubic meters.
INDIV_FISHING_QUOTA_FLAG	Identifies whether fishing is on an IFQ quota with the subsequent application of IFQ rules.
SAMPLED_BY	Identifies where a haul is sampled by an observer and in some cases by which observer.
NUMBER_OF_SEGMENTS	Number of skates or segments for longline fishing.
NUMBER_OF_HOOKS_PER_SEGMENT	Number of hooks per skate for longline fishing.
TOTAL_HOOKS	Total number of hooks deployed for this haul. Beginning 2010 the value is computed as the average hooks per segment from the selected haul hook count set * the observer entered number of segments. User entry of a value in this field sets the total hooks overide flag to 'Y' and prevents the automatic recalculation of total hooks on subsequent data loads.
TOTAL_POTS	Total number of pots deployed for this haul.
MMAMMAL_MONITR_PCT	Percentage of time for this haul where marine mammal monitoring occured. For fixed gear deployments the valid values are anywhere in the range. For mobile gear deployments the values may be either 0 or 100.
HAUL_DELIVERY_VESSEL_ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table
HAUL_OBSVR_EST_DISCARDS	Observer estimate of total discards
HAUL_VOLUME	Observer Estimate of volume of catch (Cod End)
TOTAL_HOOKS_OVERIDE_FLAG	If an observer believes that the calculated value of total hooks is not correct. It is allowed that the value is overridden. If that is the case then this flag will be set to Y by trigger code, and total-hooks will be protected from automatic recalculateion.
BIRD_SHORTWIRED_FLAG	Denoting whether the net was shortwired during the haulback. Do not record a Y when the net is shortwired during the tow but then returned to fishing depth.
HAUL_NUMBER	Number which is entered by the observer identifying a unique haul within a trip. Since records are not physically deleted, trigger code preserves uniqueness by allowing only a single active record to exist (delete_marker IS NOT NULL).

Table Name HAUL_HOOK_COUNT

Table Name HAUL_HOOK_COUNT

Table Comments This entity represents the observer matching of hauls by haul number to hook count sets by set number. That value is used to compute and populate the haul total hooks, and sample sample hooks-pots. Both total hooks and sample hooks may be overwritten by the observer, however as a general rule will be computed by the average hooks per segment computed for a hook count set * number of segments in the haul or number of segments sampled in the sample.

Column Name	Column Comments
HAUL_SEQ	Sequence generated unique identifier for a haul record
SET_SEQ	Sequence generated unique identifier of a hook spacing set.
HAUL_NUMBER	Unique haul for an observer vessel cruise, defaulted to an incremented sequence by the GUI. May be entered and defined by the observer.
COLLECTION_NUMBER	User Defined Hook Count Sent number unique for a cruise permit.

Table Name HOOKS_PER_SEGMENT

Table Comments Stock assessment authors for sablefish (and potentially for P.cod) use catch-per-unit-effort information in their models. A key component of this is the spacing of the hooks on the gear. Every year, we issue a special project where the observers measure the spacing of the hooks on a few segments of gear. That special project has been absorbed into the standard data set for 2010. This entity represent the hook count and hook spacing measurements for a segment of gear.

Column Name	Column Comments
HOOKS_PER_SEGMENT_SEQ	Sequence generated unique identifier of a hook count and measure for a segment of longline gear.
NUMBER_OF_HOOKS	Number of hooks per segment
SEGMENT_NUMBER	This attribute represents a user defined integer identifying a unit of line for counting and spacing hooks. It must be unique within a hook_count_set.
SET_SEQ	Sequence generated unique identifier of a hook spacing set.
HOOK_SPACING_IN_CM	Spacing between hooks on a segment. This value is optional for any specific segment except the first set of spacing-count on a trip

Table Name HOOK_COUNT_SET

Table Comments

Column Name	Column Comments
COLLECTION_DATE	Date and Time count taken.
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel.
COLLECTION_NUMBER	User Defined Hook Count Sent number unique for a cruise permit.
SET_SEQ	Sequence generated unique identifier of a hook spacing set.

Table Name IN_MESSAGES

Table Comments

Column Name	Column Comments
IN_MESSAGES_ID	Sequence Generated Text Mesage Record unique identifier.
MESSAGE_NAME	
DATE_RECEIVED	
PERMIT	
MESSAGE_TEXT	
MESSAGE_TYPE	
CRUISE	

Table Name IN_MESSAGES
Table Comments

Column Name	Column Comments
READ	

Table Name LENGTH
Table Comments This entity is mapped to the Norpac length tables. It contains header information about sampled animals.

Column Name	Column Comments
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
CONDITION_CODE	Numeric code identifying the injury
VIABILITY	Identifies the viability status for halibut
EGGS_IND	Identifies the presence or absence of egg for crabs.
FREQUENCY	The total number of animals within this size group
LENGTH_SIZE	The length of this animal
SEX_CODE	The sex of this animal
LENGTH_SEQ	Sequence generated unique identifier for a length record
HAUL_SEQ	Sequence generated unique identifier for a haul record
SPECIES_COMPOSITION_SEQ	Sequence Generated unique identifier of a species composition record
SPECIES_CODE	In the case of a length record which is not a child of species composition. This is the species identifier attribute.
SAMPLE_SYSTEM_CODE	Unique numeric identifier of a sample coding system.
ANIMAL_TYPE_CODE	Refers the the class of animal for example M - mammal H-halibut. Enforced by the Domain Animal Type.

Table Name LOV_ANIMAL_TYPE
Table Comments

Column Name	Column Comments
DESCRIPTION	Description of type and usage.
ANIMAL_TYPE_CODE	Animal type identifier for deterrence and condition

Table Name LOV_BAIT_USED
Table Comments Type of bait used for fixed gear vessels only.

Column Name	Column Comments
NAME	Descriptive name of a code.
BAIT_USED_SEQ	Sequence generated unique identifier of a bait used record
CODE	Identifies the type of bait used and the value is generated by FMA staff

Table Name LOV_BEAUFORT_SCALE
Table Comments The Beaufort scale in an international set of descriptive sea states and wind conditions. It may be recorded for a bird interaction event.

Column Name	Column Comments
BEAUFORT_CODE	International Beaufort Sea State Code
DESCRIPTION	Descriptive text for sea state.

Table Name LOV_BIRD_AGE_CATEGORY
Table Comments This entity represents the possible values of the age of a bird by general category. e.g.

Table Name LOV_BIRD_AGE_CATEGORY

Table Comments This entity represents the possible values of the age of a bird by general category. e.g. mature, immature, possibly immature, unknown.

Column Name	Column Comments
AGE_CATEGORY_CODE	Unique code for classifying bird age
DESCRIPTION	Description of age category.

Table Name LOV_BIRD_COUNT_TYPE

Table Comments This entity describes how the of number or estimate of animals in species or event was determined. (How were birds counted?)

Column Name	Column Comments
COUNT_TYPE_CODE	Unique code describing how the number of animals field is determined. Except for a type of specific the grouping is an estimate and number is not required.
DESCRIPTION	Discriptive text of the meaning and usage of the count type code.
COUNT_CODE	Numeric value for use as a data entry aid. The alpha code is necessary to port the data to fish and wildlife without transformation. There is a unique key on this column.

Table Name LOV_BIRD_DETERERENT_USED

Table Comments This entity records the list of reasons for the use or absence of deterrent measures for this particular bird event. While most probably limited to haul events it is not structually bound to hauls.

Column Name	Column Comments
DESCRIPTION	Brief descriptive text of the purpose and use of the deterrent_use_code
DETERRENT_USED_CODE	Unique code dientifying the reason for the use or absence of a bird deterrence strategy.
DETERRENT_CODE	Numeric value for use as a data entry aid. The alpha code is necessary to port the data to fish and wildlife without transformation. There is a unique key on this column.

Table Name LOV_BIRD_EVENT_LOCATION

Table Comments This entity represents the list of valid locations available for recording the first observation of a bird or birds - recorded in a bird interaction.

Column Name	Column Comments
LOCATION_NUMBER_CODE	Numeric value for use as a data entry aid. The alpha code is necessary to port the data to fish and wildlife without transformation. There is a unique key on this column.
LOCATION_CODE	Unique code identifying the location of the bird at the first observation
DESCRIPTION	Discriptive text identifying the meaning and usage of the code

Table Name LOV_BIRD_EVENT_OUTCOME

Table Comments This entity represent the list of valid outcomes which may be associated with a bird event (interaction). It is here that mortality and/or incidental event types are defined.

Column Name	Column Comments
DESCRIPTION	Descriptive text of an interaction outcome.
OUTCOME_CODE	Unique code identifying the condition of the bird after this interaction. This code is the optional foreign key to the bird_interaction_outcome table. It is important to note that interactions may not be associated or defined by an outcome. Or another way, outcomes are not mandatory.

Table Name LOV_BIRD_FISHERY

Table Comments This entity identifies the current fishery a vessel in engaged in during a bird interaction. These values are not matched to AKR target fishery as computed by the catch accounting system.

Table Name LOV_BIRD_FISHERY

Table Comments This entity identifies the current fishery a vessel in engaged in during a bird interaction. These values are not matched to AKR target fishery as computed by the catch accounting system.

Column Name	Column Comments
FISHERY_NUMBER_CODE	Numeric value for use as a data entry aid. The alpha code is necessary to port the data to fish and wildlife without transformation. There is a unique key on this column.
FISHERY_CODE	Unique Abbreviated code for a fishery as defined by the observer.
DESCRIPTION	Descriptive Text of the Fishery

Table Name LOV_BIRD_HAULBACK

Table Comments This entity contains the list of valid codes from the Fish and Wildlife service which describe bird event observations during the haulback of gear.

Column Name	Column Comments
DESCRIPTION	Descriptive text of the portion of the haulback that was monitored by the observer for bird interactions.
BIRD_HAULBACK_CODE	Portion of the haulback that was monitored by the observer for bird interactions.

Table Name LOV_BIRD_INTERACTION

Table Comments This entity maps to the Norpac Bird_Interaction table and is a list of the currently valid avian interactions identified with gear, vessels, and offloads.

Column Name	Column Comments
DESCRIPTION	Descriptive text regardint the use and meaning of an interaction code.
INTERACTION_CODE	This attribute is the list of unique valid codes for a bird - vessel,trip,offload interaction event outcomes.

Table Name LOV_BIRD_LEG_BAND_COLOR

Table Comments This entity represents the list of material and color of leg bands available to be mapped to a bird interaction species record.

Column Name	Column Comments
DESCRIPTION	Color Description
COLOR_CODE	Color Code

Table Name LOV_BIRD_SPECIMEN_TYPE

Table Comments This entity represents the list of currently identified avian specimen types.

Column Name	Column Comments
SPECIMEN_TYPE_CODE	The list of unique type codes associated with a bird specimen.
DESCRIPTION	

Table Name LOV_BIRD_TAG_LOCATION

Table Comments This entity is the list of possible locations on a specimen where a tag or leg band may be found.

Column Name	Column Comments
LOCATION_CODE	Unique Code for the found location of a bird tag. For example rtleg;
DESCRIPTION	Description of the use and meaning of the location code.

Table Name LOV_BIRD_TAG_TYPE

Table Comments This entity represents the list of valid materials that a tag may be made of.

Table Name LOV_BIRD_TAG_TYPE
Table Comments This entity represents the list of valid materials that a tag may be made of.

Column Name	Column Comments
DESCRIPTION	Descriptive text describing the use and location of this tag
TYPE_CODE	Unique code identifying the type of recovered tag.

Table Name LOV_BIRD_VESSEL_ACTIVITY
Table Comments This entity describes the current vessel activity. Codes are interaction parent specific. For example Setting gear is only pertinent when the interaction is associated with a haul.

Column Name	Column Comments
ACTIVITY_NUMBER_CODE	Numeric value for use as a data entry aid. The alpha code is necessary to port the data to fish and wildlife without transformation. There is a unique key on this column.
DESCRIPTION	Descriptive Text for an activity
ACTIVITY_CODE	Unique code for an activity.

Table Name LOV_CDQ
Table Comments This entity maps to the Norpac CDQ_Codes table and contains unique CDQ organization and research codes and their descriptive names and descriptions.

Column Name	Column Comments
CDQ_CODE	Unique AlphaNumeric code representing a CDQ or research group
DESCRIPTION	Descriptive text or full CDQ Group name.

Table Name LOV_CONDITION
Table Comments Condition of prohibited species at time of examination. Animal type included to allow expansion into the description of birds as well as mammals. Derived from the NORPAC Mammal_Condition table

Column Name	Column Comments
DESCRIPTION	Descriptive text of a condition resulting from an injury that may have been incurred during fishing operations.
CONDITION_CODE	Numeric code identifying the injury
ANIMAL_TYPE_CODE	Refers the the class of animal for example M - mammal H-halibut. Enforced by the Domain Animal Type.

Table Name LOV_DETERRENCE
Table Comments This entity maps to both the Norpac Bird_Deterrence and the Mammal_Deterrence tables. In Atlas the animal_type column was added to allow this.

Column Name	Column Comments
DESCRIPTION	Descriptive text of deterrence method used.
DETERRENCE_CODE	Deterrence code from NORPAC bird or mammal deterance tables
ANIMAL_TYPE_CODE	Class of animal mammal (M), bird (B) for which the deterrence was utilized

Table Name LOV_GEAR_PERFORMANCE
Table Comments This entity maps to the Norpac Gear_Performance Table.

Column Name	Column Comments
GEAR_PERFORMANCE_CODE	Unique performance code for a gear type.
DESCRIPTION	Descriptive text for a performance code

Table Name LOV_GEAR_TYPE

Table Comments This table maps to the Norpac Domestic_Gear table and contains the valid gear types for both observed hauls and observed offloads.

Column Name	Column Comments
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
GEARTYPE_FORM	Form that the gear is valid for. For example the gear may be Unknown for a delivery but will always be determined for a haul.
DESCRIPTION	Descriptive text for a gear

Table Name LOV_MAMMAL_INTERACTION

Table Comments This entity maps to the Norpac Mammal_Interaction table and is a list of the currently defined and recorded marine mammal interactions.

Column Name	Column Comments
MAMMAL_INTERACT_CODE	Numeric code uniquely identifying a mammal interaction. The value is suppllied at data load from Norpac
DESCRIPTION	Descriptive text of an interaction. The data is supplied from Norpac.

Table Name LOV_MAMMAL_SPECIES_CODE

Table Comments This entity represents the species of a marine mammal. It includes the unique NORPAC species code as well as common and scientific names.

Column Name	Column Comments
MAMMAL_SPECIES_CODE	Unique identifier for a species imported from Norpac
COMMON_NAME	Common or Management name for a species.
SCIENTIFIC_NAME	Scientific Name (genus-species)

Table Name LOV_MAMMAL_SPECIMEN_TYPE

Table Comments This entity represents the type of biota sample taken. For example: Tooth; Tissue. And any comments about the sample or the process. The specimen type table applies to mammal specimens. It allows the growth of sample types to be collected over time without interative changes to the structure of the specimen tables. The description provides what is to be collected and the value is recorded in the specimen table.

Column Name	Column Comments
SPECIMEN_TYPE_SEQ	Unique identifier of a specimen type
DESCRIPTION	Descriptive text identifying the sample.
VALUE_REQUIRED_FLAG	Identifies whether a value is required or prohibited in the resusting specimen table.

Table Name LOV_MATURITY

Table Comments This entity represents the valid maturity values which may be applied to a species and recorded in the Fish_Inv_Specimen table

Column Name	Column Comments
CODE	Alpha-Numeric code identifying the level of maturity.
DESCRIPTION	Descriptive text of the maturity level.
MATURITY_SEQ	Sequence generated unique identifier of a maturity record.

Table Name LOV_PLANT

Table Comments The lov_plant table is populated from the vessplant table in Norpac. In Norpac a plant is identified by a leading P in the vessel code field.

Table Name LOV_PLANT
Table Comments The lov_plant table is populated from the vessplant table in Norpac. In Norpac a plant is identified by a leading P in the vessel code field.

Column Name	Column Comments
NAME	Name of a processing plant - inherited from the NORPAC data set
PERMIT	Unique Permit identifying a processing plant - inherited from the NORPAC data set. It is assigned by RAM division at the regional office in Juneau.
PLANT_SEQ	Sequence generated unique identifier for a processing plant.

Table Name LOV_PORT_CODE
Table Comments List of Plants and Processors locations generated by FMA staff. Reference observer manual trip data instructions.

Column Name	Column Comments
PORT_CODE	User defined unique identifier of a port currently limited to 1 - 12
NAME	Descriptive name of a Port of embarkation or destination.

Table Name LOV_PROHIB_SPECIES_GROUP
Table Comments This entity represents the groups of species that an individual species may belong to. Specifically it denotes the class of prohibited species and contains a code for all non-prohibited animals.

Column Name	Column Comments
PROHIB_SPECIES_GROUP_CODE	Alpha code identifying the group that a species may belong to.
NAME	Descriptive name of prohibited species group

Table Name LOV_RBT_CODE
Table Comments Random Break Table is not associated with a Norpac source table. This table contains only two rows Yes and No. The descriptive text is used as an explainatory field for the observers in the field. The implimentation as a table rather than as a domain was for the convenience of the GUI.

Column Name	Column Comments
DESCRIPTION	Descriptive text
RBT_CODE	Currently limted to Y (es) or N(o)

Table Name LOV_RST_CODE
Table Comments Random Sample Reference Table

Column Name	Column Comments
RST_CODE	
DESCRIPTION	

Table Name LOV_SALMON_RELIABILITY
Table Comments This entity describes whether the numbers of salmon recorded in the salmon table were determined from a Whole Haul or some Other grouping.

Column Name	Column Comments
RELIABILITY_CODE	Unique Numeric Value
DESCRIPTION	Descriptive text currently limited to Whole Haul and Other

Table Name LOV_SAMPLE_SYSTEM_CODE

Table Name LOV_SAMPLE_SYSTEM_CODE

Table Comments This entity maps to the Norpac age_collection_codes table. Norpac source includes all sample system codes. In Atlas ony includes codes form norpac source where collection code = 1,2, 3

Column Name	Column Comments
SAMPLE_SYSTEM_CODE	Unique numeric identifier of a sample coding system.
DESCRIPTION	Descriptive text.

Table Name LOV_SAMPLE_UNIT

Table Comments The type of sample unit describes how the target population is divided to form the sample frame. In most cases, the sample frame is based on units of gear or targeted weights of fish, however, other sample unit types are possible. This is information is necessary for the observer to identify the sample unit type when they define their sample frame and the observer would have it readily available for each haul. Note that a spatial-temporal frame generally uses a spatial sample frame and sample unit type (gear segments, flow-scale weights). The temporal component is used to estimate the appropriate time to arrive at the sample station.Unit Code indictes the type of sample unit (time, weight, etc.)

Column Name	Column Comments
SAMPLE_UNIT_CODE	Unique code identifying the unit of measure for a sampling design. Sample Design and units are mandatory at the haul level and optional at the sample level.
DESCRIPTION	Descriptive test of a sample unit code

Table Name LOV_SPECIES_CODE

Table Comments This entity maps to the Norpac domestic_species table

Column Name	Column Comments
SCIENTIFIC_NAME	Scientific Name (genus-species)
COMMON_NAME	Common or Management name for a species.
WEIGHT_AND_NUMBER_REQD	Indicates whether the weight and number of animals are required for a subsequent species composition record.
SPECIES_COMP_SEX_REQUIRED_FLAG	For species with this flag set to yes, the user interface will require that the sex of the species composition record be recorded.
EGGS_REQUIRED_FLAG	For prohibited crab species where sex = F. The flag identifies whether the observer must record the presence or absence of eggs.
PROHIB_SPECIES_GROUP_CODE	Alpha code identifying the group that a species may belong to.
SPECIES_CODE	Unique identifier for a species imported from Norpac
AVIAN_SPECIES_CODE	Four character SON bird code.

Table Name LOV_SPECIES_MATURITY

Table Comments This entity represents the intersection of species and maturity. The resulting species maturity may be applied to an individual specimen of known species, sex, and length

Column Name	Column Comments
SPECIES_CODE	Unique identifier for a species imported from Norpac
MATURITY_SEQ	Sequence generated unique identifier of a maturity record.

Table Name LOV_SPECIMEN_TYPE

Table Comments This entity maps to the Norpac age_structure_codes table. Atlas contains only currently valid codes.

Column Name	Column Comments
DESCRIPTION	Descriptive text for this specimen type. This is where what is being measured or

Table Name LOV_SPECIMEN_TYPE
Table Comments This entity maps to the Norpac age_structure_codes table. Atlas contains only currently valid codes.

Column Name	Column Comments
	commented about is described.
SPECIMEN_TYPE	Unique numeric value for a specimen type record.
VALUE_REQUIRED_FLAG	Values may or may not be required for a specific specimen type. Biometric measurements require them. Descriptive elements may not.

Table Name LOV_TIME_LOST_REASON
Table Comments This Entity contains the valid codes for which time may be recorded as lost for a vessel trip.

Column Name	Column Comments
TIME_LOST_CODE	Unique Reason code for lost fishing time.
NAME	Descriptive Name of a time lost reason

Table Name LOV_VESSEL
Table Comments The lov_vessel table is populated from the VessPlnt table in Norpac. A vessel is identified by a leading A in the vessel_code field.

Column Name	Column Comments
VESSEL_SEQ	Sequence Generated unique identifier of an Atlas vessel record. The lov vessel table combines the vessplant and catcher boat code tables.
NAME	Name a vessel - inherited from the NORPAC data set
PERMIT	Unique Code identifying a vessel - inherited from the NORPAC data set and created by the RAM division in Juneau
ADFG_NUMBER	Alaska Dept of Fish and Game unique vessel identifier.
LENGTH	Mandatory length of a vessel from the regional office LOA.

Table Name LOV_VESSEL_TYPE
Table Comments This entity maps to the Norpac Domestic_Vessel_Type table. Note that the Alpha code does not carry over into the Atlas application.

Column Name	Column Comments
DESCRIPTION	Descriptive text of a vessel type code.
VESSEL_TYPE	Unique identifier of a vessel type

Table Name LOV_WEATHER_CODE
Table Comments

Column Name	Column Comments
DESCRIPTION	Descriptive text of weather code
WEATHER_NUMBER_CODE	Numeric value for use as a data entry aid. The alpha code is necessary to port the data to fish and wildlife without transformation. There is a unique key on this column.
WEATHER_CODE	Unique weather code

Table Name MAMMAL
Table Comments This entity contains the mammal data specific to a haul or a trip.

Column Name	Column Comments
MAMMAL_SEQ	Sequence generated unique identifier for a mammal record
MAMMAL_SPECIES_CODE	Unique identifier for a species imported from Norpac

Table Name MAMMAL
Table Comments This entity contains the mammal data specific to a haul or a trip.

Column Name	Column Comments
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
TRIP_SEQ	Sequence generated unique identifier of a trip
HAUL_SEQ	Sequence generated unique identifier for a haul record
NUMBER_OF_ANIMALS	Number of animals involved with this interaction

Table Name MAMMAL_INTERACTION
Table Comments This entity records marine mammal interactions that coud occur at the haul level or the trip level.

Column Name	Column Comments
CONDITION_CODE	FK from the LOV_Condition_Table. Numeric code identifying the injury
CONDITION_ANIMAL_TYPE	FK from the LOV_Condition_Table. Refers the the class of animal for example M - mammal H-halibut. Enforced by the Domain Animal Type.
INTERACTION_DATE	Date the mammal interaction was observed. If an interaction record is related to an offload or a haul this date is inferred as the haul date or offload end date. If the interaction is related to a trip the interaction date is mandatory.
OBSERVATION_FLAG	Did the observer physically witness the interaction.
NUMBER_OF_ANIMALS	Number of animals involved with this interaction
LATITUDE_DEGREES	Latitude at which the interaction with a mammal occured.
LATITUDE_MINUTES	Latitude at which the interaction with a mammal occured.
LATITUDE_SECONDS	Latitude at which the interaction with a mammal occured.
LONGITUDE_DEGREES	Longitude at which the interaction with a mammal occured.
LONGITUDE_MINUTES	Longitude at which the interaction with a mammal occured.
LONGITUDE_SECONDS	Longitude at which the interaction with a mammal occured.
LONGITUDE_EW	Identifies the logitude as E(ast) or W(est)
COMMENTS	Observer entered comments regarding this interaction.
MAMMAL_INTERACT_CODE	Numeric code uniquely identifying a mammal interaction. The value is suppllied at data load from Norpac
DETERRENCE_SUCCESS_FLAG	Identifies whether or not the deterence measures applied were successful
DETERRENCE_CODE	Optional FK from LOV_Deterrence combined with deterrence_animal type. Deterrence codes are from NORPAC bird or mammal deterance tables.
DETERRENCE_ANIMAL_TYPE	Optional FK from LOV_Deterrence. Class of animal mammal (M), bird (B) for which the deterrence (if it exists) was utilized
SPECIES_CODE	Unique identifier for a species imported from Norpac
INTERACTION_SEQ	Sequence within Mammal Parent record
MAMMAL_SEQ	Sequence generated unique identifier for a mammal record

Table Name MAMMAL_SPECIMEN
Table Comments This entity maps to the Norpac Domestic_Mammal_Specimen Table

Column Name	Column Comments
VALUE	If the Specimen Type requires a value to be entered this attribute is the data store.
COMMENTS	Observer entered comments
SPECIMEN_NUMBER	A specimen number is unique with a mammal record. It is auser defined identifier.
INTERACTION_SEQ	Sequence within Mammal Parent record
SPECIMEN_TYPE_SEQ	Foreign Key value identifying the type of speciment collected.
ANIMAL_NUMBER	User Entered identifier or a particular animal within a mammal interaction. This number is unique in combination with a specimen type.

Table Name MAMMAL_SPECIMEN
Table Comments This entity maps to the Norpac Domestic_Mammal_Specimen Table

Column Name	Column Comments
MAMMAL_SPECIMEN_SEQ	Sequence generated unique identifier of a mammal specimen record.
SEX	Sex of a mammal speciem (M)ale, (F)emale, (U)nknown or undertermined.

Table Name NON_FISHING_DAY
Table Comments This entitity represents the date and location of every day during a trip where fishing did not occur.

Column Name	Column Comments
NO_FISHING_DAY_SEQ	Sequence generated unique identifier of a non-fishing day record
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel. FK value to support no fishing port days.
CRUISE_PLANT_SEQ	
NONFISH_DATE	Date on which no fishing activity occured
LATITUDE_DEGREES	Latitude of non fishing day (not time specfic) in degrees.
LONGITUDE_EW	East West Longitude indicator for a non fishing day locaton.
LATITUDE_SEC	Latitude of non fishing day (not time specfic) in seconds
LONGITUDE_DEGREES	Longitude of of non fishing day (not time specfic) in degrees.
LONGITUDE_MINUTES	Longitude of non fishing day (not time specfic) in minutes
LONGITUDE_SEC	Longitude of non fishing day (not time specfic)
LATITUDE_MINUTES	Latitude of non fishing day (not time specfic) in minutes

Table Name OBSERVER_CRUISE
Table Comments Records within Atlas the essentials of an observer contract.

Column Name	Column Comments
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
FIRST_NAME	Observer First Name
LAST_NAME	Observer Last Name
CREATE_DATE	Timestamp that record was created
PASSWORD	Password entered by the lead observer for use by all observers on a cruise.

Table Name OFFLOAD
Table Comments This entity represents an offload event at a processing plant or mothership.

Column Name	Column Comments
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
SORTED_AT_SEA_FLAG	Identifies catch sorted by the catcher vessel at sea.
GROUNDFISH_WEIGHED_FLAG	Identifies whether or not all the groundfish were weighed.
LB_KG	Pounds (LB) or Metric Tons (KG identifier of weight.
TOTAL_POLLOCK_WEIGHT	Identifies the total weight of pollock delivered in kgs or lbs
DELIVERED_WEIGHT	Total weight of the delivery In KG or LB
NMFS_AREA	NMFS Reporting Area
DELIVERY_END_DATE	Date the delivery was complete.
GEARTYPE_FORM	Form that the gear is valid for. For example the gear may be Unknown for a delivery but will always be determined for a haul.
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record

Table Name OFFLOAD
Table Comments This entity represents an offload event at a processing plant or mothership.

Column Name	Column Comments
OFFLOAD_TO_TENDER_FLAG	Identifies if a tender was used to make this delivery.
OFFLOAD_NUMBER	Unique offload for an observer cruise entered by the observer.
LANDING_REPORT_ID	The region uses the landing report id off the electronic fish ticket as a join column for the catch accounting system. The value is printed on the lower quadrant of every ER fish ticket. Landing_Report_ID is unique to an offload.
TRIP_SEQ	Sequence generated unique identifier of a trip
PLANT_SEQ	Optional FK to Plant. Part of arc involving catcher vessel, haul, and cruise plant. Code identifying a processing plant - inherited from the NORPAC data set. The plant seq is an autogenerated unique identifier.
CRUISE_PLANT_SEQ	Sequence generated unique value for a cruise plant record.
DELIVERY_VESSEL_ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table.

Table Name OUT_MESSAGES
Table Comments

Column Name	Column Comments
MESSAGE_TYPE	
MESSAGE_TEST	
TRANSMITTED	
CREATE_DATE	
OUT_MESSAGE_ID	Sequence generated
PERMIT	
VESSEL_NAME	
OBSERVER_FNAME	
OBSERVER_LNAME	
CRUISE	

Table Name PERCENT_RETAINED
Table Comments This entity records the amount of each species retained, for that species in a haul.

Column Name	Column Comments
HAUL_SEQ	Sequence generated unique identifier for a haul record
TOTAL_PERCENT_RETAINED	Percent retained value for that species for this haul.
SPECIES_CODE	Unique identifier for a species imported from Norpac

Table Name RECORD_SET_STATUS
Table Comments This entity represents the header information for the list of records which will or has been trasmitted to AFSC. It identifies the cruise which owns the records to be transmitted, the status of the transmission, and the version of atlas which created the transmission.

Column Name	Column Comments
PREPARED_DATE_TIME	Timestamp posted by the iinitiating program. When a record set is prepared for transmission this attribute contains the system time. This need not necessiarily be accurate, but must be sequentially consistent.
ATLAS_VERSION	Version of atlas. This is initialized at each new installation.
TRANSMIT_CODE	This code identifies the transmission state of this record. Valid Values N = New, P = Prepared, T = Transmitted, R = Resent)
RECORD_SET_STATUS_SEQ	Sequence generated unique identifier of a record set header

Table Name RECORD_SET_STATUS

Table Comments This entity represents the header information for the list of records which will or has been trasmitted to AFSC. It identifies the cruise which owns the records to be transmitted, the status of the transmission, and the version of atlas which created the transmission.

Column Name	Column Comments
TEST_DATA_FLAG	Identifies a record set as test or production data. Defaults to (N)o - Data is Production

Table Name RECORD_STATUS

Table Comments This entity represents the list of records which will or has been trasmitted to AFSC. It identifies the table, unique identifier, action status (CRUD), and transmission status of each record.

Column Name	Column Comments
PK1_COLUMN_NAME	Primary key column name for the referenced table.
PK1_VALUE	Primary key column value for the referenced table.
PK2_COLUMN_NAME	Compound primary key column name for the referenced table.
PK2_VALUE	Compound primary key column value for the referenced table.
TABLE_NAME	Table name from which a record is inserted, updated or deleted.
PERMIT	Unique Permit identifying a processing plant - inherited from the NORPAC data set. It is assigned by RAM division at the regional office in Juneau.
STATUS_CODE	This attribute identifies the action taken on this record. Valid Values I = Insert, U = Update, D = delete
RECORD_SET_STATUS_SEQ	Sequence generated unique identifier of a record set header
RECORD_STATUS_SEQ	Sequence Generated Unique Identifier for records that are currently queued for loading.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record. Here it identifies which cruise this element in the recordset belongs to.

Table Name REPORTHAUL_V

Table Comments This view was created for on vessel reporting. It mirrors the haul table, however calculates a proxy of the observer estimate of catch for longline and pot vessels if one is not porvided by the observer. This allows real time review by the captain of the vessel for fishing management.

Column Name	Column Comments
OBSESTMTD	Method used to determine the observer estimated catch
OBSDSCD	Observer estimate of total discards in KG
DNSTY	Density used by the observer to determine the total catch weights computed in KG per M3.
IDVFSHGQ	Identifies whether fishing is on an IFQ quota with the subsequent application of IFQ rules.
SMPLYBY	Identifies where a haul is sampled by an observer and in some cases by which observer.
SKATE	Number of skates or segments for longline fishing.
HOOK_SKT	Number of hooks per skate for longline fishing.
HKS	
PTS	Total number of pots deployed for this haul.
MMPNT	Percentage of time for this haul where marine mammal monitoring occured. For fixed gear deployments the valid values are anywhere in the range. For mobile gear deployments the values may be either 0 or 100.
VOL	Estimate of volume of catch in cubic meters.
SAMPUN	Unique code identifying the unit of measure for a sampling design. Sample Design and units are mandatory at the haul level and optional at the sample level.
SAMSYS	Unique numeric identifier of a sample coding system.

Table Name REPORTHAUL_V

Table Comments This view was created for on vessel reporting. It mirrors the haul table, however calculates a proxy of the observer estimate of catch for longline and pot vessels if one is not porvided by the observer. This allows real time review by the captain of the vessel for fishing management.

Column Name	Column Comments
HOOKCOLL	retrieved hook collection number from haul_hook_count
TOTAL_HOOKS_OVERIDE_FLAG	If an observer believes that the calculated value of total hooks is not correct. It is allowed that the value is overridden. If that is the case then this flag will be set to Y by trigger code, and total-hooks will be protected from automatic recalculateion.
BIRD_SHORTWIRED_FLAG	Denoting whether the net was shortwired during the haulback. Do not record a Y when the net is shortwired during the tow but then returned to fishing depth.
BIRD_HAULBACK_CODE	Portion of the haulback that was monitored by the observer for bird interactions.
TRIP_SEQ	Sequence generated unique identifier of a trip
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
VSL_PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
HNUM	Number which is entered by the observer identifying a unique haul within a trip. Since records are not physically deleted, trigger code preserves uniqueness by allowing only a single active record to exist (delete_marker IS NOT NULL).
HSEQ	Sequence generated unique identifier for a haul record
PURPOSE	Haul data may be utilized for catch accounting, stock assessment, or for various special projects. This field is entered by the observer and not validated by ATLAS. Validation is performed when loaded into the production NORPAC data set.
CDQ	Unique AlphaNumeric code representing a CDQ or research group
ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table.
GEARP	Unique performance code for a gear type.
RBT	Currently limted to Y (es) or N(o)
VTYP	Unique identifier of a vessel type
GTYPF	Form that the gear is valid for. For example the gear may be Unknown for a delivery but will always be determined for a haul.
GTYP	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
RST	
DTER	Deterrence code from NORPAC bird or mammal deterance tables
DTRA	Optional FK from LOV_Deterrence. Class of animal mammal (M), bird (B) for which the deterrence (if it exists) was utilized
LOC	Identifies whether the information in a haul is based on retrieval or delivery (as in a mother ship)
RTRV	Date and time recorded by the observer from the vessel log.
RLADG	Location of gear retrieval.
RLAMN	Location of gear retrieval.
RLASC	Location of gear retrieval.
REW	Location of gear retrieval.
RLODG	Location of gear retrieval.
RLOMN	Location of gear retrieval.
RLOSC	Location of gear retrieval.
DPLY	Date and time recorded by the observer from the vessel log.
DLADG	Location of gear deployment.
DLAMN	Location of gear deployment.
DLASC	Location of gear deployment.

Table Name REPORTHAUL_V

Table Comments This view was created for on vessel reporting. It mirrors the haul table, however calculates a proxy of the observer estimate of catch for longline and pot vessels if one is not porvided by the observer. This allows real time review by the captain of the vessel for fishing management.

Column Name	Column Comments
DEW	Location of gear deployment.
DLODG	Location of gear deployment.
DLOMN	Location of gear deployment.
DLOSC	Location of gear deployment.
BTMDEP	Average bottom depth recorded by the observer from the vessel log.
FSHGDEP	Average fishing depth recorded by the observer from the vessel log.
DEPMTR	Identifies whether depth is recorded in meters or fathoms.
VSLEST	Total catch weight in metric tons as recorded in the vessel log.
OBSEST	

Table Name SALMON

Table Comments Retrofitted from table SALMON_TABLE

Column Name	Column Comments
FISHING_TEMP	Temperature recorded at fishing depth
SURFACE_TEMP	Surface temperature of the water. Applicable only to hauls.
SCALE	Whether the temperature was recorded in degrees farenheight or celcisus.
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
HAUL_SEQ	Sequence generated unique identifier for a haul record
RELIABILITY_CODE	Unique Numeric Value
NUMBER_PINK	Number of Pink salmon tallied for this offload.
NUMBER_CHINOOK	Number of Chinook salmon tallied for this offload.
NUMBER_CHUM	Number of Chum salmon tallied for this offload.
NUMBER_UNIDENTIFIED	Number of Salmon which could not be identified by species.
NUMBER_COHO	Number of Coho salmon tallied for this offload.
NUMBER_SOCKEYE	Number of Sockeye salmon tallied for this offload.
NUMBER_OTHER	Number of Other salmon species recorded
SALMON_SEQ	Sequence generated unique identifier of a salmon record

Table Name SAMPLE

Table Comments This entity represents the individual samples of a type that may be collected from an observed haul. It is header information for species composition.If there are rare species present in sample and there exist multiple predominant species, a recursive subsample or subsamples may be created. The sum of the weights of the subsamples must be less than or equal to the parent sample.

Column Name	Column Comments
SAMPLE_DESIGN_FLAG	Identifies this sample as complying (Y) or differing (N) from the protocol declared at the haul level.
SAMPLE_HOOKS_OVERIDE_FLAG	This flag identifies an observer overide of the computed sample hooks - pots variable. The setting of the flag to Y will prohibit the automatic computation of sample hooks-pots from haul-hook-count * number-of-segments-sampled.
SPECIES_COMP_IN_SAMPLE	This flag indicates that fish were found or were absent in this sample - in the latter case composition records are not permitted and the sample is ignored for extrapolations.

Table Name SAMPLE

Table Comments This entity represents the individual samples of a type that may be collected from an observed haul. It is header information for species composition.If there are rare species present in sample and there exist multiple predominant species, a recursive subsample or subsamples may be created. The sum of the weights of the subsamples must be less than or equal to the parent sample.

Column Name	Column Comments
SAMPLE_HOOKS_POTS	Number of hooks or pots sampled.
TOTAL_SAMPLE_WEIGHT	Total weight in kg of this sample.
PRESORTED_FLAG	This flag indicates that child species composition records did not come from and unsorted catch. Generally if a single large animal was removed before sampling began and so was not available for inclusion in any random sample
COMBINED_SAMPLE_FLAG	Identifies whether unique samples within a haul have been aggregated together.
HAUL_SEQ	Sequence generated unique identifier for a haul record
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
SAMPLE_NUMBER	Sequence within either haul or offload parent. This value is auto-generated but not necessarily unique.
PARENT_SAMPLE_SEQ	Sequence generated unique identifier of a sample
SAMPLE_SEQ	Sequence generated unique identifier of a sample
NUMBER_OF_SEGMENTS_SAMPLED	The number of segments (skates, racks) of hooks which went into this sample. This number may be fractional.

Table Name SPECIES_COMPOSITION

Table Comments This entity maps to the Norpac Species_Comp_Detail Table.

Column Name	Column Comments
SPECIES_NUMBER	Number of individual animals in the sample. Either the species number or the species weight may be null, but not both.
SPECIES_WEIGHT	Weight of each species in the sample. Either the species number or the species weight may be null, but not both.
SPECIES_CODE	Unique identifier for a species imported from Norpac
SAMPLE_SEQ	Sequence generated unique identifier of a sample
SPECIES_COMPOSITION_SEQ	Sequence Generated unique identifier of a species composition record
SEX_CODE	Sex if so identified.