Table and Column Comments
Deployed at sea Atlas Data Dictionary

****

Table Name   CRUISE_PLANT

The intersection of an observer cruise and a processing plant.

Column Name	Column Comments
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.
PLANT_SEQ	Sequence generated unique identifier for a processing plant.

****

Table Name   CRUISE_VESSEL

The intersection of an observer cruise and a vessel

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

****

Table Name   FISHING_TIME_LOST

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

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

****

Table Name   FISH_INV_SPECIMEN

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
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.
SPECIMEN_SEQ	Sequence generated unique identifier of a specimen record.
LENGTH_SEQ	Sequence generated unique identifier for a length record
SPECIMEN_TYPE	Unique numeric value for a specimen type record.
MATURITY_SEQ	Sequence generated unique identifier of a maturity record.
WEIGHT	Weight in kg of the specimen.
SPECIES_CODE	Unique identifier for a species imported from Norpac, and the FK value from species_maturity.

****

Table Name   FISH_TICKET

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

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_DATE	Date of embarkation.
START_LATITUDE_DEGREE	Latitude of embarkation in degrees.
START_LONGITUDE_DEGREE	Longitude of embarkation in degrees.
END_LATITUDE_DEGREE	Latitude of disembarkation in degrees.
END_LATITUDE_SEC	Latitude of disembarkation in seconds
END_LONGITUDE_DEGREE	Longitude of disembarkation in degrees.
TRIP_SEQ	Sequence generated unique identifier of a trip
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).
BAIT_USED_SEQ	Sequence generated unique identifier of a bait used record
START_LATITUDE_MIN	Latitude of embarkation in minutes.
FISH_IN_HOLD_AT_START_FLAG	Identifies whether there were fish present in the hold at the start of a fishing trip.
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel.
START_EW	East West longitude identifier for Embarkation.
END_LATITUDE_MIN	Latitude of disembarkation in minutes
END_LONGITUDE_SEC	Longitude of disembarkation in seconds
END_LONGITUDE_MIN	Longitude of disembarkation in minutes
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_SEC	Latitude of embarkation in seconds.
START_LONGITUDE_SEC	Longitude of embarkation in seconds.
END_EW	East West longitude identifier for Disembarkation.
DID_FISHING_OCCUR_FLAG	Idetifies whether fishing took place or not.
EMBARKED_PORT_CODE	User defined unique identifier of a port currently limited to 1 - 12
DISEMBARKED_PORT_CODE	User defined unique identifier of a port currently limited to 1 - 12
START_LONGITUDE_MIN	Longitude of embarkation in minutes.
END_DATE	Date of landing, tying up to a mothership, transfer of fish between codends or other interaction signifying the ending of a trip.
CREW_SIZE	Number of personnel on the vessel.

`*************************************************************************************************************`

Table Name HAUL

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
DELIVERY_VESSEL_ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table.
RBT_CODE	Currently limted to Y (es) or N(o)
VESSEL_TYPE	Unique identifier of a vessel type
RETRV_LONGITUDE_MINUTES	Location of gear retrieval.
RETRV_LONGITUDE_SECONDS	Location of gear retrieval.
FISHING_DEPTH	Average fishing depth recorded by the observer from the vessel log.

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name **HAUL**

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
OBSVR_EST_DISCARDS	Observer estimate of total discards
NUMBER_OF_HOOKS_PER_SKATE	Number of hooks per skate for longline fishing.
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.
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
DETERRENCE_CODE	Deterrence code from NORPAC bird or mammal deterance tables
RETRV_EW	Location of gear retrieval.
RETRV_LONGITUDE_DEGREES	Location of gear retrieval.
DEPLOY_DATE_TIME	Date and time recorded by the observer from the vessel log.
DENSITY	Density used by the observer to determine the total catch weights.
RST_CODE	
RETRV_LATITUDE_MINUTES	Location of gear retrieval.
RETRV_LATITUDE_SECONDS	Location of gear retrieval.
DEPLOY_LATITUDE_MINUTES	Location of gear deployment.
OBSVR_EST_CATCH	Total catch weight as estimated by the observer in metric tons.
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).
RETRV_LATITUDE_DEGREES	Location of gear retrieval.
DEPTH_METER_FATHOM	Identifies whether depth is recorded in meters or fathoms.
NUMBER_OF_SKATES	Number of skates for longline fishing.
HAUL_SEQ	Sequence generated unique identifier for a haul record
TRIP_SEQ	Sequence generated unique identifier of a trip
DEPLOY_LONGITUDE_SECONDS	Location of gear deployment.
OBSVR_EST_METHOD	Method used to determine the observer estimated catch
SAMPLED_BY	Identifies where a haul is sampled by an observer and in some cases by which observer.
TOTAL_HOOKS	Total number of hooks deployed for this haul
TOTAL_POTS	Total number of pots deployed for this haul.
DEPLOY_LONGITUDE_DEGREES	Location of gear deployment.
INDIV_FISHING_QUOTA_FLAG	Identifies whether fishing is on an IFQ quota with the subsequent application of IFQ rules.
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.
DETERRENCE_ANIMAL_TYPE	Optional FK from LOV_Deterrence. Class of animal mammal (M), bird (B) for which the deterrence (if it exists) was utilized
DEPLOY_LATITUDE_SECONDS	Location of gear deployment.
DEPLOY_EW	Location of gear deployment.
BOTTOM_DEPTH	Average bottom depth recorded by the observer from the vessel log.
CDQ_CODE	Unique AlphaNumeric code representing a CDQ or research group
GEAR_PERFORMANCE_CODE	Unique performance code for a gear 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.
LOCATION_CODE	Identifies whether the information in a haul is based on retrieval or delivery (as in a mother ship)

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name HAUL

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_DATE_TIME	Date and time recorded by the observer from the vessel log.
DEPLOY_LATITUDE_DEGREES	Location of gear deployment.
DEPLOY_LONGITUDE_MINUTES	Location of gear deployment.
VESSEL_EST_CATCH	Total catch weight in metric tons as recorded in the vessel log.

****

Table Name IN_MESSAGES

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

****

Table Name LENGTH

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

Column Name	Column Comments
LENGTH_SEQ	Sequence generated unique identifier for a length record
HAUL_SEQ	Sequence generated unique identifier for a haul record
VIABILITY	Identifies the viability status for halibut
EGGS_IND	Identifies the presence or absence of egg for crabs.
SPECIES_COMPOSITION_SEQ	Sequence Generated unique identifier of a species composition record
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.
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.
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
FREQUENCY	The total number of animals within this size group
SEX_CODE	The sex of this animal
LENGTH_SIZE	The length of this animal

****

Table Name LOV_ANIMAL_TYPE

Column Name	Column Comments
DESCRIPTION	Description of type and usage.

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name LOV_ANIMAL_TYPE

Column Name	Column Comments
ANIMAL_TYPE_CODE	Animal type identifier for deterrence and condition

Table Name LOV_BAIT_USED

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_CDQ

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

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
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.
DESCRIPTION	Descriptive text of a condition resulting from an injury that may have been incurred during fishing operations.

Table Name LOV_DETERRENCE

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

Table Name LOV_GEAR_PERFORMANCE

This entity maps to the Norpac Gear_Performance Table.

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

Table and Column Comments
Deployed at sea Atlas Data Dictionary

****

Table Name LOV_GEAR_TYPE

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
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
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record

****

Table Name LOV_MAMMAL_INTERACTION

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

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

****

Table Name LOV_MAMMAL_SPECIMEN_TYPE

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

****

Table Name LOV_MATURITY

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 Name LOV_PLANT

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
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.
NAME	Name of a processing plant - inherited from the NORPAC data set

Table Name LOV_PORT_CODE

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

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

Table Name LOV_PROHIB_SPECIES_GROUP

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

Table Name LOV_RBT_CODE

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

Random Sample Reference Table

Column Name	Column Comments
DESCRIPTION	
RST_CODE	

Table Name LOV_SALMON_RELIABILITY

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

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

****

Table Name LOV_SPECIES_CODE

This entity maps to the Norpac domestic_species table

Column Name	Column Comments
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)
PROHIB_SPECIES_GROUP_CODE	Alpha code identifying the group that a species may belong to.
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.
WEIGHT_AND_NUMBER_REQD	Indicates whether the weight and number of animals are required for a subsequent species composition record.

****

Table Name LOV_SPECIES_MATURITY

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

****

Table Name LOV_SPECIMEN_TYPE

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

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

****

Table Name LOV_TIME_LOST_REASON

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

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

****

Table Name LOV_VESSEL

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name LOV_VESSEL

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
LENGTH	Mandatory length of a vessel from the regional office LOA.
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.
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

****

Table Name LOV_VESSEL_TYPE

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

****

Table Name MAMMAL

This entity contains the mammal data specific to a haul or a trip.

Column Name	Column Comments
TRIP_SEQ	Sequence generated unique identifier of a trip
HAUL_SEQ	Sequence generated unique identifier for a haul record
MAMMAL_SPECIES_CODE	Unique identifier for a species imported from Norpac
MAMMAL_SEQ	Sequence generated unique identifier for a mammal record
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
NUMBER_OF_ANIMALS	Number of animals involved with this interaction

****

Table Name MAMMAL_INTERACTION

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

Column Name	Column Comments
OBSERVATION_FLAG	Did the observer physically witness the interaction.
COMMENTS	Observer entered comments regarding this interaction.
CONDITION_CODE	FK from the LOV_Condition_Table. Numeric code identifying the injury
MAMMAL_SEQ	Sequence generated unique identifier for a mammal record
LATITUDE_MINUTES	Latitude at which the interaction with a mammal occured.
LONGITUDE_DEGREES	Longitude at which the interaction with a mammal occured.
LATITUDE_DEGREES	Latitude at which the interaction with a mammal occured.
LONGITUDE_MINUTES	Longitude at which the interaction with a mammal occured.
SPECIES_CODE	Unique identifier for a species imported from Norpac
NUMBER_OF_ANIMALS	Number of animals involved with this interaction
LATITUDE_SECONDS	Latitude at which the interaction with a mammal occured.
INTERACTION_SEQ	Sequence within Mammal Parent record

Table Name MAMMAL_INTERACTION

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

Column Name	Column Comments
DETERRENCE_ANIMAL_TYPE	Optional FK from LOV_Deterrence. Class of animal mammal (M), bird (B) for which the deterrence (if it exists) was utilized
DETERRENCE_CODE	Optional FK from LOV_Deterrence combined with deterrence_animal type. Deterrence codes are from NORPAC bird or mammal deterance tables.
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.
DETERRENCE_SUCCESS_FLAG	Identifies whether or not the deterence measures applied were successful
MAMMAL_INTERACT_CODE	Numeric code uniquely identifying a mammal interaction. The value is suppllied at data load from Norpac
LONGITUDE_EW	Identifies the logitude as E(ast) or W(est)
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.
LONGITUDE_SECONDS	Longitude at which the interaction with a mammal occured.

****

Table Name MAMMAL_SPECIMEN

This entity maps to the Norpac Domestic_Mammal_Specimen Table

Column Name	Column Comments
ANIMAL_NUMBER	User Entered identifier or a particular animal within a mammal interaction. This number is unique in combination with a specimen type.
INTERACTION_SEQ	Sequence within Mammal Parent record
SEX	Sex of a mammal speciem (M)ale, (F)emale, (U)nknown or undertermined.
MAMMAL_SPECIMEN_SEQ	Sequence generated unique identifier of a mammal specimen record.
VALUE	If the Specimen Type requires a value to be entered this attribute is the data store.
SPECIMEN_TYPE_SEQ	Foreign Key value identifying the type of speciment collected.
SPECIMEN_NUMBER	A specimen number is unique with a mammal record. It is auser defined identifier.
COMMENTS	Observer entered comments

****

Table Name NON_FISHING_DAY

This entity represents the date and location of every day during a trip where fishing did not occur.

Column Name	Column Comments
LATITUDE_SEC	Latitude of non fishing day (not time specfic) in seconds
LONGITUDE_MINUTES	Longitude of non fishing day (not time specfic) in minutes
LATITUDE_MINUTES	Latitude of non fishing day (not time specfic) in minutes
LONGITUDE_DEGREES	Longitude of of non fishing day (not time specfic) in degrees.
NONFISH_DATE	Date on which no fishing activity occured
LONGITUDE_SEC	Longitude of non fishing day (not time specfic)
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.
LONGITUDE_EW	East West Longitude indicator for a non fishing day locaton.
LATITUDE_DEGREES	Latitude of non fishing day (not time specfic) in degrees.

****

Table Name OBSERVER_CRUISE

Table and Column Comments
Deployed at sea Atlas Data Dictionary

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

Column Name	Column Comments
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.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
FIRST_NAME	Observer First Name

****

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

Column Name	Column Comments
OFFLOAD_NUMBER	Unique offload for an observer cruise entered by the observer.
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.
DELIVERED_WEIGHT	Total weight of the delivery
GROUNDFISH_WEIGHED_FLAG	Identifies whether or not all the groundfish were weighed.
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.
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
NMFS_AREA	NMFS Reporting Area
DELIVERY_END_DATE	Date the delivery was complete.
OFFLOAD_TO_TENDER_FLAG	Identifies if a tender was used to make this delivery.
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
TRIP_SEQ	Sequence generated unique identifier of a trip
CRUISE_PLANT_SEQ	Sequence generated unique value for a cruise plant record.
TOTAL_POLLOCK_WEIGHT	Identifies the total weight of pollock delivered
SORTED_AT_SEA_FLAG	Identifies catch sorted by the catcher vessel at sea.
DELIVERY_VESSEL_ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table.
LB_MT	Pounds (LB) or Metric Tons (MT) identifier of weight.

****

Table Name OUT_MESSAGES

Column Name	Column Comments
OBSERVER_FNAME	
PERMIT	
CRUISE	
MESSAGE_TYPE	
OBSERVER_LNAME	
VESSEL_NAME	
TRANSMITTED	
MESSAGE_TEST	

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name OUT_MESSAGES

Column Name	Column Comments
CREATE_DATE	
OUT_MESSAGE_ID	Sequence generated

****

Table Name PERCENT_RETAINED

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

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

****

Table Name RECORD_SET_STATUS

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

****

Table Name RECORD_STATUS

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_VALUE	Compound primary key column value for the referenced table.
STATUS_CODE	This attribute identifies the action taken on this record. Valid Values I = Insert, U = Update, D = delete
RECORD_STATUS_SEQ	Sequence Generated Unique Identifier for records that are currently queued for loading.
TABLE_NAME	Table name from which a record is inserted, updated or deleted.
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.
PK2_COLUMN_NAME	Compound primary key column name for the referenced table.
RECORD_SET_STATUS_SEQ	Sequence generated unique identifier of a record set header

****

Table Name REPORTHAUL_V

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name REPORTHAUL_V

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
RETRV_LONGITUDE_SECONDS	Location of gear retrieval.
BOTTOM_DEPTH	Average bottom depth recorded by the observer from the vessel log.
VESSEL_EST_CATCH	Total catch weight in metric tons as recorded in the vessel log.
OBSVR_EST_METHOD	Method used to determine the observer estimated catch
TOTAL_HOOKS	Total number of hooks deployed for this haul
RETRV_DATE_TIME	Date and time recorded by the observer from the vessel log.
RETRV_LONGITUDE_MINUTES	Location of gear retrieval.
DEPLOY_LONGITUDE_SECONDS	Location of gear deployment.
DEPTH_METER_FATHOM	Identifies whether depth is recorded in meters or fathoms.
OBSVR_EST_CATCH	
RST_CODE	
LOCATION_CODE	Identifies whether the information in a haul is based on retrieval or delivery (as in a mother ship)
DEPLOY_DATE_TIME	Date and time recorded by the observer from the vessel log.
DEPLOY_LATITUDE_SECONDS	Location of gear deployment.
RETRV_LATITUDE_DEGREES	Location of gear retrieval.
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.
GEAR_PERFORMANCE_CODE	Unique performance code for a gear type.
VESSEL_TYPE	Unique identifier of a vessel type
RETRV_LATITUDE_SECONDS	Location of gear retrieval.
RETRV_LONGITUDE_DEGREES	Location of gear retrieval.
DEPLOY_EW	Location of gear deployment.
FISHING_DEPTH	Average fishing depth recorded by the observer from the vessel log.
OBSVR_EST_DISCARDS	Observer estimate of total discards
DENSITY	Density used by the observer to determine the total catch weights.
INDIV_FISHING_QUOTA_FLAG	Identifies whether fishing is on an IFQ quota with the subsequent application of IFQ rules.
NUMBER_OF_SKATES	Number of skates for longline fishing.
CDQ_CODE	Unique AlphaNumeric code representing a CDQ or research group
TRIP_SEQ	Sequence generated unique identifier of a trip
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.
DETERRENCE_ANIMAL_TYPE	Optional FK from LOV_Deterrence. Class of animal mammal (M), bird (B) for which the deterrence (if it exists) was utilized
DEPLOY_LATITUDE_MINUTES	Location of gear deployment.
NUMBER_OF_HOOKS_PER_SKATE	Number of hooks per skate for longline fishing.
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_SEQ	Sequence generated unique identifier for a haul record
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
RETRV_LATITUDE_MINUTES	Location of gear retrieval.

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name REPORTHAUL_V

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
RETRV_EW	Location of gear retrieval.
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).
DELIVERY_VESSEL_ADFG	ADFG number entered by the observer if the delivering vessel does not exist in the vessel lookup table.
RBT_CODE	Currently limted to Y (es) or N(o)
DETERRENCE_CODE	Deterrence code from NORPAC bird or mammal deterance tables
DEPLOY_LATITUDE_DEGREES	Location of gear deployment.
DEPLOY_LONGITUDE_DEGREES	Location of gear deployment.
DEPLOY_LONGITUDE_MINUTES	Location of gear deployment.
SAMPLED_BY	Identifies where a haul is sampled by an observer and in some cases by which observer.
TOTAL_POTS	Total number of pots deployed for this haul.

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Table Name SALMON

Retrofitted from table SALMON_TABLE

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

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Table Name SAMPLE

This entity represents the individual samples of a type that may be collected from an observed haul. It does not currently map to any Norpac table, but 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.
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.
TOTAL_SAMPLE_WEIGHT	Total weight in kg of this sample.
PARENT_SAMPLE_SEQ	Sequence generated unique identifier of a sample

Table and Column Comments
Deployed at sea Atlas Data Dictionary

Table Name **SAMPLE**

This entity represents the individual samples of a type that may be collected from an observed haul. It does not currently map to any Norpac table, but 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_NUMBER	Sequence within either haul or offload parent. This value is auto-generated but not necessarily unique.
SAMPLE_SEQ	Sequence generated unique identifier of a sample
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
HAUL_SEQ	Sequence generated unique identifier for a haul record

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Table Name **SPECIES_COMPOSITION**

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