NORPAC Production Table and Column Comments

Table Name ATLAS_MONITOR
Table Comments

Column Name	Column Comments
STAFF	
PERMIT	

Table Name ATL_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
BIRD_AGE_SEQ	Sequence Generated Unique identifier for a bird age record
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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
NUMBER_OF_ANIMALS	Number of birds of this species of this age category

Table Name ATL_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
BIRD_EVENT_SEQ	Sequence generated unique identifier of a bird interaction event.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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
DETERRENT_USED_CODE	Unique code dientifying the reason for the use or absence of a bird deterrence strategy.
BEAUFORT_CODE	International Beaufort Sea State Code
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.
NUMBER_OF_ANIMALS	Number of animals involved with this interaction
LATITUDE_DEGREE	Latitude at which the interaction with a bird occured.
LATITUDE_MINUTES	Latitude at which the interaction with a bird occured.
LATITUDE_SECONDS	Latitude at which the interaction with a bird occured.
LONGITUDE_DEGREE	Longitude at which the interaction with a bird occured.
LONGITUDE_MINUTES	Longitude at which the interaction with a bird occured.
LONGITUDE_SECONDS	Longitude at which the interaction with a bird occured.
LONGITUDE_EW	Identifies the logitude as E(ast) or W(est)
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

Table Name ATL_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
	to a trip the interaction date is mandatory.
COMMENTS	Observer entered comments regarding this interaction.

Table Name ATL_BIRD_INTERAC_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
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
BIRD_EVENT_SEQ	Sequence generated nique identifier of a bird interaction
ANIMAL_TYPE_CODE	Class of animal mammal (M), bird (B) for which the deterrence was utilized. References ATL_LOV_Animal_TYPEClass of animal mammal (M), bird (B) for which the deterrence was utilized
DETERRENCE_CODE	Deterrence code from NORPAC bird or mammal deterance tables
COMMENTS	Problems with deployment of deterrent device or details of type of deterrent.

Table Name ATL_BIRD_INTERAC_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
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
INTERACTION_OUTCOME_SEQ	Sequence generated unique identifier of a bird interaction.
INTERACTION_SPECIES_SEQ	Sequence generated unique identifier for an species interaction record
OUTCOME_CODE	Unique code identifying the condition of the bird after this interaction
INTERACTION_CODE	Unique code identifying a list of the currently valid avian interactions identified with gear, vessels, and offloads.
COMMENTS	Discussion of the interaction type and it's outcome.

Table Name ATL_BIRD_INTERAC_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
INTERACTION_SPECIES_SEQ	Sequence generated unique identifier for an species interaction record
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
BIRD_EVENT_SEQ	Sequence generated unique identifier of a bird interaction event.
COUNT_TYPE_CODE	Unique code describing how the number of animals field is determined. Except for a type

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

Table Name ATL_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_SEQ	sequence generated unique identifier for this tag record.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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.
TAG_NUMBER	If a tag is present and if read this field records the USFWS number or other number.
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 ATL_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
SPECIMEN_SEQ	Sequence generated unique identifier of a bird specimen.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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
COMMENTS	Discussion of bird specimen.

Table Name ATL_BIRD_VESSEL_INTERACT

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.

Table Name ATL_BIRD_VESSEL_INTERACT
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
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
BIRD_EVENT_SEQ	Sequence generated unique identifier of a bird interaction event.
ACTIVITY_CODE	Unique code for bird activity.

Table Name ATL_CRUISE99ERROR_EXISTS_V
Table Comments

Column Name	Column Comments
CRUISE	
PERMIT_TYPE	
CRUISE_PERMIT_REC	
PERMIT	

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

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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.
STATUS	This attribute is the logical foreign key from the CV_Status table owned by Norpac. It represents the current processing phase that a record is in.
STATUS_DATE	Timestamp of when processing status was assigned
STATUS_USER	User who was logged on when the cruise vessel (cruise plant) status was assigned
COMMENTS	Optional Comments Field for a cruise_plant data set. This field is provided for use by the debriefing staff. They are not available to observers in the field for this release

Table Name ATL_CRUISE_VESSEL
Table Comments The intersection of an observer cruise and a vessel

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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.
STATUS	This attribute is the logical foreign key from the CV_Status table owned by Norpac. It represents the current processing phase that a record is in.
STATUS_DATE	Timestamp of when processing status was assigned
STATUS_USER	User who was logged on when the cruise vessel (cruise plant) status was assigned
COMMENTS	Optional Comments Field for a cruise_vessel data set. This field is provided for use by the debriefing staff. They are not available to observers in the field for this release.

Table Name ATL_DO_NOT_LOAD_CRUISE

Table Comments If an observer has more than one cruise in the same contract. Data from the field ought to be loaded for only the active cruise. This table provides the list of cruises for which data is currently static. The table is referenced by the atl_load_norpac.load_atl_tables procedure.

Column Name	Column Comments
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record. In this table a listed cruise is held static to automated data loading.
COMMENTS	Optional discussion - particularly useful in the case loading data with known errors or when the data for a cruise is frozen for a reason other than multiple cruises in a contract.

Table Name ATL_ERROR

Table Comments This entity represents the list of data and loading errors for the Atlas, Inseason, and Domestic Data sets. Errors are logged by a call to a custom utility which compiles and writes to the Error Log table. Oracle RAISE_APPLICATION_ERROR must not be used because it is not desirable to stop processing when creating a log.

Column Name	Column Comments
ERROR_NUMBER	Unique user defined error number between -20000 and -21000
ERROR_FORM_TYPE	Error script run for every specific form type. This column groups errors according to the respective subsystem tested. For example: Trip errors relate to the Atlas Trip and related table data.
ERROR_NAME	Unique name of error
ERROR_TEXT	Text to be returned with error
ERROR_DISCUSSION	Optional discussion of history, and remedies relating to this error. Including usage by table and program. It is anticipated that complilation of this metadata will generate an error handbook which will be available to inseason staff
ERROR_LEVEL	Level of severity
OLD_ERROR_NUMBER	

Table Name ATL_ERROR_LOG

Table Comments This entity provides inseason managers with a record of of load and edit errors which require review and correction. This provides a permanent record of data transmission errors and timestamps their resolution.

Column Name	Column Comments
ERROR_LOG_ID	Sequence generated unique identifier for an error log entry
ERROR_NUMBER	Unique user defined error number between -20000 and -21000
CRUISE	Cruise number from Atlas which generated error.
YEAR	Year extracted from sysdate when error was recorded to facilitate reporting.
TABLE_NAME	Name of the table for which loading or editing error was recorded.
PK1_COLUMN_NAME	Name of the first primary key column.
PK1_VALUE	Atlas Norpac unique record identifier of record that generated the error. Usually this is numeric but it may be Alpha in the case of a compound primary key.
PK2_COLUMN_NAME	Name of the second primary key column.
PK2_VALUE	Atlas Norpac unique record identifier of record that generated the error. Usually this is numeric but it may be Alpha in the case of a compound primary key.
LOADING_LEVEL	This attribute identifies the loading process where the error occured ATL - atlas production tables, INS - Inseason ETL, DOM - Domestic ETL.
RESOLVED_CODE	Identifying code which indicates that the error was addressed Y, an overide was requested R, Defaults to N.
RESOLVED_BY	Inseason advisor who addressed and resolved the error. Mandatory when resolved flag set to Y.

Table Name ATL_ERROR_LOG

Table Comments This entity provides inseason managers with a record of of load and edit errors which require review and correction. This provides a permanent record of data transmission errors and timestamps their resolution.

Column Name	Column Comments
RESOLVED_DATE	Timestamp when resolved flag was set to Y
ADMIN_OVERRIDE_FLAG	Error Scripts will not allow the loading of data to Inseason or Domestic Tables if errors (99, 50) are logged. If an administrator desires, unresolved errors may be ignored and records moved by setting this flag to Yes.
COMMENTS	Optional discussion - particularly useful in the case of management setting the admin_overide_flag to Yes and loading data with known errors.
CREATED_DATE	
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
ACTIVE_FLAG	When a new error is logged it defaults to active. Whe data is validated all the logged errors are set to inactive(N). If found again the flag is reset to active(Y) or if not present the error log record is added.

Table Name ATL_EXFIXED_SPECIES_COMP

Table Comments This entity provides the repository for extrapolated fixed gear species composition data. This table object was created in Jan 2009 to during the extension of the norpac extrapolation algorithms to unidentified species in particular crab.

Column Name	Column Comments
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
EXFIXED_SPCOMP_SEQ	Sequence Generated unique identifier of a species composition record
HAUL_SEQ	Sequence generated unique identifier for a haul record
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).
SPECIES_CODE	Unique identifier for a species imported from Norpac
EXTRAPOLATED_WEIGHT	Weight of each species in the sample in kg. Either the species number or the species weight may be null, but not both.
EXTRAPOLATED_NUMBER	Number of individual animals in the sample. Either the species number or the species weight may be null, but not both.
SEX_CODE	Sex if so identified.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau

Table Name ATL_EXTRAWL_SPECIES_COMP

Table Comments This entity provides the repository for extrapolated trawl data.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
EXTRAWL_SPCOMP_SEQ	Sequence Generated unique identifier of a species composition record
HAUL_SEQ	Sequence generated unique identifier for a haul record
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).
SPECIES_CODE	Unique identifier for a species imported from Norpac
EXTRAPOLATED_WEIGHT	Weight of each species in the sample in kg. Either the species number or the species weight may be null, but not both.

Table Name ATL_EXTRAWL_SPECIES_COMP
Table Comments This entity provides the repository for extrapolated trawl data.

Column Name	Column Comments
EXTRAPOLATED_NUMBER	Number of individual animals in the sample. Either the species number or the species weight may be null, but not both.
SEX_CODE	Sex if so identified.

Table Name ATL_FISHING_TIME_LOST
Table Comments Fishing time lost contains a record of the number of hours and reasons for periods where no fishing occured during a trip.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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.
TIME_LOST_CODE	Reason code for lost fishing time.
HOURS	Number of hours lost rounded to the nearest hour.

Table Name ATL_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
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
SPECIMEN_SEQ	Sequence generated unique identifier of a specimen record.
SPECIES_CODE	Unique identifier for a species imported from Norpac, and the FK value from species_maturity.
MATURITY_SEQ	Sequence generated unique identifier of a maturity record.
LENGTH_SEQ	Sequence generated unique identifier for a length record
SPECIMEN_TYPE	Unique numeric value for a specimen type record.
SPECIMEN_NUMBER	A specimen number is unique within a length, user defined identifier. 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.
AGE	Age of the animal (Specimen) in years. Populated by Age and Growth Staff without system validation.
SPECIAL_PROJECT_CODE	Identifier of a special project record. Project to be a three character acronym unique to the project for a cruise. Populated by Debriefing Staff without System Validation.

Table Name ATL_FISH_TICKET
Table Comments This entity represents the preprinted state fish ticket preprared from an offload event.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
FISH_TICKET_SEQ	Sequence within offload parent
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
FISHTICKET_NUMBER	

Table Name ATL_FMA_TRIP

Table Comments **A 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
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
TRIP_SEQ	Sequence generated unique identifier of a trip within each observer instance of Atlas
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel.
TRIP_NUMBER	Number which is entered by the observer which must be unique within a cruise - vessel combination.
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
BAIT_USED_SEQ	Sequence generated unique identifier of a bait used record
START_DATE	Date of embarkation.
START_LATITUDE_DEGREE	Latitude of embarkation in degrees.
START_LATITUDE_MIN	Latitude of embarkation in minutes.
START_LATITUDE_SEC	Latitude of embarkation in seconds.
START_LONGITUDE_DEGREE	Longitude of embarkation in degrees.
START_LONGITUDE_MIN	Longitude of embarkation in minutes.
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.
ATLAS_VERSION_NUMBER	Current Version of Atlas Program. This is stored in both Trip and Offload and inherited by the rest of the system.
COMMENTS	Any specific comments an observer might make in regards to this trip. In particular comments are required to documented lost fishing time.

Table Name ATL_FOR_CRUISE_ERR_REPORT

Table Comments **ATL_FOR_CRUISE_ERR_REPORT is a global temporary table populated on a per session basis when staff click 'RUN REPORT' from the NORPAC EDIT main screen. Data generated from a package call populate the table. Each user sees only the data pertaining to their session. There is language in the package that truncates the table for each session. A simple select statement in ORACLE Forms calling from this table provides data for the cruise/vessel error report.**

Column Name	Column Comments

Table Name ATL_FOR_CRUISE_ERR_REPORT

Table Comments ATL_FOR_CRUISE_ERR_REPORT is a global temporary table populated on a per session basis when staff click 'RUN REPORT' from the NORPAC EDIT main screen. Data generated from a package call populate the table. Each user sees only the data pertaining to their session. There is language in the package that truncates the table for each session. A simple select statement in ORACLE Forms calling from this table provides data for the cruise/vessel error report.

Column Name	Column Comments
CRUISE	
PERMIT	
TABLE_NAME	
NUMBER_OF_INSTANCES	
PK1_VALUE	
CRUISE_DATE	
TRIP_NUMBER	
OFFLOAD_NUMBER	
HAUL	
SAMPLE_NUMBER	
SPECIES_CODE	
LENGTH	
SEX	
SPECIMEN_NUMBER	
ERROR_LEVEL	
ERROR_TEXT	

Table Name ATL_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
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
VOLUME	Estimate of volume of catch
DATE_OF_ENTRY	When a haul record is inserted or updated the system date is recorded here. This value is not used for catch or quota purposes, but is useful for identifying errors or ommissions at the haul level by both the Alaska Region and Inseason Advising.
SAMPLE_SYSTEM_CODE	Unique numeric identifier of a sample coding system.
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.
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_HAULBACK_CODE	Portion of the haulback that was monitored by the observer for bird interactions.
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. The purpose of this flag differs from the gear performance code in that interactions between birds and the warps or third wire transducer cable may occur during periods where the cod end is being towed while fish on deck are possessed or in other instances outside of shortwiring for turns or known obstacles.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
HAUL_SEQ	Sequence generated unique identifier for a haul record

Table Name ATL_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_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).
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.
TRIP_SEQ	Sequence generated unique identifier of a trip
VESSEL_TYPE	Unique identifier of a vessel type
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.
GEAR_TYPE_CODE	Numeric value from Norpac Domestic Gear that combined with the Form defines the unique identifier for a gear record
RBT_CODE	Random Break Table identifier Currently limted to Y (es) or N(o)
RST_CODE	Random Sample Reference Table code reference.
DETERRENCE_CODE	Deterrence code from NORPAC bird or mammal deterance tables
ANIMAL_TYPE_CODE	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 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.
RETRV_LONGITUDE_MINUTES	Location of gear retrieval.
RETRV_LONGITUDE_SECONDS	Location of gear retrieval.
NMFS_AREA	This is a calculated value from retrieval lat-long. It is stored for the convenience of the user community.
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 kgs.
OBSVR_EST_METHOD	Method used to determine the observer estimated catch

Table Name ATL_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
OBSVR_EST_DISCARDS	Observer estimate of total discards in kgs.
DENSITY	Density used by the observer to determine the total catch weights. Recorded in kgs per m3.
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. The observer of a haul is not necessarily the primary observer recorded for a cruise.
NUMBER_OF_SKATES	Number of skates for longline fishing.
NUMBER_OF_HOOKS_PER_SKATE	Number of hooks per skate for longline fishing.
TOTAL_HOOKS	Total number of hooks deployed for this haul
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.

Table Name ATL_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.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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 ATL_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.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
SET_SEQ	Sequence generated unique identifier of a hook spacing set.
SEGMENT_NUMBER	This attribute represents a user defined integer identifying a unit of line for counting and

Table Name ATL_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
	spacing hooks. It must be unique within a hook_count_set.
NUMBER_OF_HOOKS	Number of hooks as determined by the observer for this segment, contained within a counted 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 ATL_HOOK_COUNT_SET

Table Comments Twice a week an observer is required to measure hook spacing and total hooks for twenty percent of the segments (skates/racks) of a typical haul. These measurements may be taken all at once or over a period of time and accumulated into a set. This entity represents that collection of hook and spacing data.

Column Name	Column Comments
SET_SEQ	Sequence generated unique identifier of a hook spacing set.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
COLLECTION_NUMBER	User Defined Hook Count Sent number unique for a cruise permit.
CRUISE_VESSEL_SEQ	Sequence generated unique identifier for a cruise vessel.
COLLECTION_DATE	Date and Time count taken.

Table Name ATL_LENGTH_WEIGHT_FLATHEAD

Table Comments

Column Name	Column Comments
YEAR	
HAUL_DELIV_DATE	
NMFS_AREA	
SPECIMEN_TYPE	
SPECIES	
SEX	
AGE	
LENGTH	
WEIGHT	
HAUL_JOIN	

Table Name ATL_LENGTH_WEIGHT_PCOD

Table Comments

Column Name	Column Comments
YEAR	
HAUL_DELIV_DATE	
NMFS_AREA	

Table Name ATL_LENGTH_WEIGHT_PCOD
Table Comments

Column Name	Column Comments
SPECIMEN_TYPE	
SPECIES	
SEX	
AGE	
LENGTH	
WEIGHT	

Table Name ATL_LENGTH_WEIGHT_TANNER
Table Comments

Column Name	Column Comments
YEAR	
HAUL_DELIV_DATE	
NMFS_AREA	
SPECIMEN_TYPE	
SPECIES	
SEX	
AGE	
LENGTH	
FREQUENCY	
WEIGHT	

Table Name ATL_LOV_ANIMAL_TYPE
Table Comments Identifies the class of incidental catch for deterrence and condition. Currently (M)ammal, (H)alibut, (B)ird

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

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

Column Name	Column Comments
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
NAME	Descriptive name of a code.

Table Name ATL_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 ATL_LOV_BIRD_AGE_CATEGORY

Table Name ATL_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 ATL_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.
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.
DESCRIPTION	Discriptive text of the meaning and usage of the count type code.

Table Name ATL_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
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.
DESCRIPTION	Brief descriptive text of the purpose and use of the deterrent_use_code

Table Name ATL_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_CODE	Unique code identifying the location of the bird at the first observation
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.
DESCRIPTION	Discriptive text identifying the meaning and usage of the code

Table Name ATL_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
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.
DESCRIPTION	Descriptive text of an interaction outcome.

Table Name ATL_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 ATL_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_CODE	Unique Abbreviated code for a fishery as defined by the observer.
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.
DESCRIPTION	Descriptive Text of the Fishery

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

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

Table Name ATL_LOV_BIRD_LEG_BAND_COLOR
Table Comments This entity represents the list of colors currently used by fish and wildlife for leg bands available to be mapped to a bird interaction species record.

Column Name	Column Comments
COLOR_CODE	Color Code
DESCRIPTION	Color Description

Table Name ATL_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 ATL_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 ATL_LOV_BIRD_TAG_TYPE
Table Comments This entity represents the list of valid types of tags/leg bands.

Table Name ATL_LOV_BIRD_TAG_TYPE
Table Comments This entity represents the list of valid types of tags/leg bands.

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

Table Name ATL_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_CODE	Unique code for an activity.
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

Table Name ATL_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 ATL_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
ANIMAL_TYPE_CODE	Refers the the class of animal for example M - mammal H-halibut. Referencing atl_lov_animal_type.
CONDITION_CODE	Numeric code identifying the injury
DESCRIPTION	Descriptive text of a condition resulting from an injury that may have been incurred during fishing operations.

Table Name ATL_LOV_DETERRENCE
Table Comments This entity maps to both the Norpac Domestic Bird_Deterrence and the Domestic Mammal_Deterrence tables. It is a list of ezuipment and actions used to deter gear interactions with birds or mammals. 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
ANIMAL_TYPE_CODE	Class of animal mammal (M), bird (B) for which the deterrence was utilized. References ATL_LOV_Animal_TYPEClass of animal mammal (M), bird (B) for which the deterrence was utilized
DESCRIPTION	Descriptive text of deterrence method used.

Table Name ATL_LOV_GEAR_PERFORMANCE
Table Comments This entity maps to the Norpac Domestic Gear_Performance Table. It is a list of descriptions identifying the causes of problems, if identified, with fishing gear for a haul.

Column Name	Column Comments

Table Name ATL_LOV_GEAR_PERFORMANCE

Table Comments This entity maps to the Norpac Domestic Gear_Performance Table. It is a list of descriptions identifying the causes of problems, if identified, with fishing gear for a haul.

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

Table Name ATL_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 ATL_LOV_HAUL_PURPOSE

Table Comments Data from hauls may be collected for purposes other than estimates of catch and discards. Special projects are funded from time to time which require their own data sets and which may be analyzed independently of NORPAC data. This table validates the observer entered project identifier which is not validated by the deployed version of ATLAS.

Column Name	Column Comments
HAUL_PURPOSE_CODE	Max two character code describing the function of this haul - defaults to CA (catch accounting) but may contain codes specifying any special project. Path for loading into new schema structure has not been discussed.
DESCRIPTION	Description of the Special Project or other purpose for the collection of these data.

Table Name ATL_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 ATL_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 ATL_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

Table Name ATL_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
VALUE_REQUIRED_FLAG	Identifies whether a value is required or prohibited in the resusting specimen table. If for example the presence or absence is of a specimen is the value e.g Specimen Type = "Blubber Sample" then the value required flag = 'N' and the existence of the specimen record of that type is the indicator.
DESCRIPTION	Descriptive text identifying the sample.

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

Table Name ATL_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
PLANT_SEQ	Sequence generated unique identifier for a processing plant.
PLANT_CODE	VessPlnt code from old NORPAC system. This code may ultimately be retired, but is essential to the transitional ETL from Atlas to Inseason and Domestic.
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.
LOCATION	This attribute represents the city or other identifying location for a plant. The value is not currently validate.

Table Name ATL_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 ATL_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 ATL_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
RBT_CODE	Currently limted to Y (es) or N(o)
DESCRIPTION	Descriptive text

Table Name ATL_LOV_RST_CODE

Table Comments Random Sample Reference Table

Column Name	Column Comments
RST_CODE	
DESCRIPTION	

Table Name ATL_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
NO_LONGER_VALID_DATE	Date after which a code is no longer to be available for use by a user. This in enforced by a BIUR Trigger on the salmon table.
RELIABILITY_CODE	Unique Numeric Value
DESCRIPTION	Descriptive text currently limited to Whole Haul and Other

Table Name ATL_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 ATL_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 ATL_LOV_SPECIES_CODE

Table Comments This entity maps to the Norpac domestic_species table

Table Name ATL_LOV_SPECIES_CODE
Table Comments This entity maps to the Norpac domestic_species table

Column Name	Column Comments
AVIAN_SPECIES_CODE	Bird identification - species code from fish and wildlife Used to limit species presented in the bird interaction table.
SPECIES_CODE	Unique identifier for a species imported from Norpac
PROHIB_SPECIES_GROUP_CODE	Alpha code identifying the group that a species may belong to.
EGGS_REQUIRED_FLAG	For prohibited crab species where sex = F. The flag identifies whether the observer must record the presence or absence of eggs.
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.
WEIGHT_AND_NUMBER_REQD	Indicates whether the weight and number of animals are required for a subsequent species composition record.
COMMON_NAME	Common or Management name for a species.
SCIENTIFIC_NAME	Scientific Name (genus-species)
LENGTH_ACCEPTED_FLAG	Length data is not collected for all species. This flag identifies those for whom legth and specimen data may be collected.

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

Table Name ATL_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
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 ATL_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 ATL_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.
VESSEL_CODE	VessPlnt code from old NORPAC system. This code may ultimately be retired, but is essential to the transitional ETL from Atlas to Inseason and Domestic.

Table Name ATL_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
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.
COAST_GUARD_NUMBER	USCG Registration Number.
LENGTH	Mandatory length of a vessel from the regional office LOA.

Table Name ATL_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. Vessel type catagorizes vessels by processor type or catcher vessel.

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

Table Name ATL_LOV_WEATHER_CODE
Table Comments This entity contains the Beaufort sea state codes.

Column Name	Column Comments
WEATHER_CODE	Unique 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.
DESCRIPTION	Descriptive text of weather code

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

Column Name	Column Comments
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
MAMMAL_SEQ	Sequence generated unique identifier for a mammal record
MAMMAL_SPECIES_CODE	Unique identifier for a species imported from Norpac
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
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau

Table Name ATL_MAMMAL_HAUL_JOIN
Table Comments

Column Name	Column Comments
CRUISE	
MAMMAL_SEQ	
MAMMAL_SPECIES_CODE	
OFFLOAD_SEQ	

Table Name ATL_MAMMAL_HAUL_JOIN
Table Comments

Column Name	Column Comments
TRIP_SEQ	
HAUL_SEQ	
NUMBER_OF_ANIMALS	
HAUL_JOIN	

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

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
INTERACTION_SEQ	Sequence within Mammal Parent record
MAMMAL_SEQ	Sequence generated unique identifier for a mammal record
SPECIES_CODE	Unique identifier for a species imported from Norpac
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.
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
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.

Table Name ATL_MAMMAL_SPECIMEN
Table Comments This entity maps to the Norpac Domestic_Mammal_Specimen Table, and records sampling information for marine mammal tissue and measurements recorded for hauls, offloads, or trips.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau

Table Name ATL_MAMMAL_SPECIMEN

Table Comments This entity maps to the Norpac Domestic_Mammal_Specimen Table, and records sampling information for marine mammal tissue and measurements recorded for hauls, offloads, or trips.

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

Table Name ATL_MESSAGE

Table Comments This entity captures messages transmitted from the atlas client to FMA. The functionality will be expanded to full duplex recording in 2009.

Column Name	Column Comments
MESSAGE_ID	Unique sequence generated number - PK
MESSAGE_TYPE	Identifies a record as In (I) Out (O)
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
FROM_ADDRESS	Intended to identify the sending clent. Currently a defaulted value.
TO_ADDRESS	Intended to identify the sending clent. Currently a defaulted value.
MESSAGE_TEXT	Observer message text.
CREATE_DATE	Timestamp for record entry into table.
VESSEL_NAME	Name of vessel.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
TRANSMITTED	Defaults to 0 becomes 1 when message is forwarded to the inseason advisor.
OBSERVER_LNAME	Last name of the observer who originated the transmission.
OBSERVER_FNAME	First name of the observer who originated the transmission.

Table Name ATL_MESSAGE_PERMIT

Table Comments

Column Name	Column Comments
PERMIT	Column contains vessel permit. Only those vessels with an installation of the ATLAS client are included.
STAFF_ID	Column contains three character STAFF_ID. Only those staff with current inseason advising duties are included.
CURRENT_ADVISOR_FLAG	Column contains 'Y' or 'N' to indicate if the staff member is currently advising the vessel.
PRIMARY_ADVISOR_FLAG	Column contains 'Y' or 'N' to indicate if the staff member is the primary advisor for the vessel. Primary advisors are responsible for the vessel a majority of the time, but may on occassion need to have another staff cover the inseason communications duties (during vacation or field assignments for e.g.). If the staff in question has the primary advisor flag set to 'Y' and current advisor flag set to 'N', another staff is currently monitoring messages for the vessel.

Table Name ATL_MESSAGE_TEMP
Table Comments

Column Name	Column Comments
MESSAGE_ID	
MESSAGE_TYPE	
PERMIT	
FROM_ADDRESS	
TO_ADDRESS	
MESSAGE_TEXT	
CREATE_DATE	
VESSEL_NAME	
CRUISE	
TRANSMITTED	
OBSERVER_LNAME	
OBSERVER_FNAME	

Table Name ATL_NON_FISHING_DAY
Table Comments This entitity represents the date and location of every day during a trip where fishing did not occur. For 2009 this concept was expanded to days wth no observer activity at a processing plant. To impliment this change all non PK fields sans date bacame optional.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE_PLANT_SEQ	
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
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.
NONFISH_DATE	Date on which no fishing activity occured
LATITUDE_DEGREES	Latitude of non fishing day (not time specfic) in degrees.
LATITUDE_MINUTES	Latitude of non fishing day (not time specfic) in minutes
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)
LONGITUDE_EW	East West Longitude indicator for a non fishing day locaton.

Table Name ATL_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

Table Name ATL_OFFLOAD
Table Comments

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

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
OFFLOAD_NUMBER	Unique offload for an observer cruise entered by the observer.
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.
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.
DELIVERY_END_DATE	Date the delivery was complete.
NMFS_AREA	NMFS Reporting Area
DELIVERED_WEIGHT	Total weight of the delivery recorded in kilograms.
TOTAL_POLLOCK_WEIGHT	Identifies the total weight of pollock delivered recorded in kilograms.
LB_KG	Pounds or Kilogram identifier of weight.
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.
OFFLOAD_TO_TENDER_FLAG	Identifies if a tender was used to make this delivery.

Table Name ATL_OLD_ERROR
Table Comments

Column Name	Column Comments
ERROR_NUMBER	
ERROR_FORM_TYPE	
ERROR_NAME	
ERROR_TEXT	
ERROR_DISCUSSION	
ERROR_LEVEL	
OLD_ERROR_NUMBER	

Table Name ATL_OUT_MESSAGES
Table Comments Created for the convenience of loading data into the local version of atlas.

Column Name	Column Comments
OUT_MESSAGE_ID	Sequence generated
OBSERVER_LNAME	
OBSERVER_FNAME	
VESSEL_NAME	

Table Name ATL_OUT_MESSAGES
Table Comments Created for the convenience of loading data into the local version of atlas.

Column Name	Column Comments
PERMIT	
CRUISE	
CREATE_DATE	
TRANSMITTED	
MESSAGE_TEXT	
MESSAGE_TYPE	

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

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
HAUL_SEQ	Sequence generated unique identifier for a haul record
SPECIES_CODE	Unique identifier for a species imported from Norpac
TOTAL_PERCENT_RETAINED	Percent retained value for that species for this haul.

Table Name ATL_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
RECORD_STATUS_SEQ	Sequence Generated Unique Identifier for records that are currently queued for loading.
RECORD_SET_STATUS_SEQ	Sequence generated unique identifier of a record set header
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	Table name from which a record is inserted, updated or deleted.
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.
STATUS_CODE	This attribute identifies the action taken on this record. Valid Values I = Insert, U = Update, D = delete
LOADED_TO_ATLAS_FLAG	This attribute defaults to N when loaded from the field. Successful transfer to the production ATL tables, sets the value to 'Y'.
DEBRIEFED_FLAG	This attribute defaults to N when loaded from the field. Validation of the record during the debriefing process, sets the value to 'Y'.
EDITOR	Current user when record was changed.
CREATION_DATE	Load date from working to production tables.
MODIFIED_DATE	Date of last edit to any value in the record.
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau

Table Name ATL_SALMON
Table Comments This entity records the number of prohibited pacific salmon recorded as bycatch ,by

Table Name ATL_SALMON

Table Comments This entity records the number of prohibited pacific salmon recorded as bycatch ,by species, for an offload or a haul.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
NUMBER_CHUM	Number of Chum salmon tallied for this offload.
NUMBER_COHO	Number of Coho salmon tallied for this offload.
NUMBER_SOCKEYE	Number of Sockeye salmon tallied for this offload.
NUMBER_PINK	Number of Pink salmon tallied for this offload.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
SALMON_SEQ	Sequence generated unique identifier of a salmon record
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
SCALE	Whether the temperature was recorded in degrees farenheit or celsius.
SURFACE_TEMP	Surface temperature of the water. Applicable only to hauls.
FISHING_TEMP	Temperature recorded at fishing depth
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.

Table Name ATL_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
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
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.
SAMPLE_DESIGN_FLAG	Identifies this sample as complying (Y) or differing (N) from the protocol declared at the haul level.
NUMBER_OF_SEGMENTS_SAMPLED	The number of segments (skates, racks) of hooks which went into this sample. This number may be fractional.
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.
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
SAMPLE_SEQ	Sequence generated unique identifier of a sample
PARENT_SAMPLE_SEQ	Sequence generated unique identifier of a sample
SAMPLE_NUMBER	Sequence within either haul or offload parent. This value is auto-generated but not necessarily unique.
OFFLOAD_SEQ	Sequence generated unique identifier for an offload record
HAUL_SEQ	Sequence generated unique identifier for a haul record
COMBINED_SAMPLE_FLAG	Identifies whether unique samples within a haul have been aggregated together.
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

Table Name ATL_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
	not available for inclusion in any random sample
TOTAL_SAMPLE_WEIGHT	Total weight in kg of this sample.
SAMPLE_HOOKS_POTS	Number of hooks or pots sampled.

Table Name ATL_SCANNED_AGE

Table Comments This entity exists as a confirmation that an otolith recorded as taken and entered in the ATL Fish Inv Specimen Table matches. If there is a mismatch the event is captured by a trigger and an error is written. The data is not preserved for independent reference.

Column Name	Column Comments
SPECIMEN_NUMBER	Unique identifier in combination with a cruise for an otolith specimen. This is the same value as the specimen number entered in the ATL Fish Inv Specimen Table
CRUISE	Cruise is a new column for this table, and required to guarantee uniqueness between trips.
PERMIT	This is the Federal Fishery Permit for the vessel or processing plant from which the specimen was extracted.
SPECIES_CODE	Species from which otolith was taken. Must match corresponding specimen species for this cruise and specimen number.

Table Name ATL_SPECIES_COMPOSITION

Table Comments This entity maps to the old Norpac Species_Comp_Detail Table. It contains records of each species which is identified within an observer sampling frame. The count of animals must be positive, zero count records are not permitted. Species composition records always come from a sample.

Column Name	Column Comments
PERMIT	Unique Code identifying a vessel or Processor - inherited from the NORPAC data set and created by the RAM division in Juneau
CRUISE	Sequence generated by Norpac and supplied to the observer as an unique identifier for an observer cruise record.
SPECIES_COMPOSITION_SEQ	Sequence Generated unique identifier of a species composition record
SAMPLE_SEQ	Sequence generated unique identifier of a sample
SPECIES_CODE	Unique identifier for a species imported from Norpac
SPECIES_WEIGHT	Weight of each species in the sample in kg. Either the species number or the species weight may be null, but not both.
SPECIES_NUMBER	Number of individual animals in the sample. Either the species number or the species weight may be null, but not both.
SEX_CODE	Sex if so identified.