

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: DOMESTIC\_SPECIES

A table which provides all of the three-digit numeric codes assigned by the NMFS Observer Program, complete with their common name, scientific name, associated RACE Division species code, and the maximum and minimum weights and lengths typically reported by observers.

Column Name	Column Comments
SPECIES_NO	A three-digit numeric code assigned by the NMFS Observer Program to each different marine organism expected to be seen in the Bering Sea and northeast Pacific Ocean. Each number is uniquely associated with a SPECIES_NAME and a SCIENTIFIC_NAME.
SPECIES_NAME	The common name of the marine organism.
PROHIB	A one-digit alpha code indicating whether the species is allowed to be retained in the Alaska groundfish fishery and the West Coast Pacific whiting fishery, where: Y = Yes; N = No.
GENKEY	The prohibited species grouping associated with the SPECIES_NAME. This field is NULL unless PROHIB = "Y". The groupings are: HALIBUT, KINGCRAB, OTHCRAB, SALMON.
RACE_SPECIE_NUM	A 5-digit numeric code assigned by the RACE division that is associated with the SPECIES_NAME
SCIENTIFIC_NAME	The scientific name associated with the common SPECIES_NAME.
MAX_WT	The maximum weight expected for an individual of this species. This value comes from several sources, the primary one being the NORPAC.DOMESTIC_SPCOMP_DETAIL table.
MIN_WT	The minimum weight expected for an individual of this species. This value comes from several sources, the primary one being the NORPAC.DOMESTIC_SPCOMP_DETAIL table.
MAX_LEN	The maximum length expected for an individual of this species. This value comes from several sources, the primary one being the NORPAC_DOMESTIC_LENGTH table.
MIN_LEN	The minimum length expected for an individual of this species. This value comes from several sources, the primary one being the NORPAC.DOMESTIC_LENGTH table.
NICKNAME	Nickname is the same as the common SPECIES_NAME.
AGGREGATION	Indicates species aggregation and possible species_no in the aggregation.
AGE_TRAY	For internal use by Age Determination Unit.
AGE_TRAY_X	For internal use by Age Determination Unit.
AGE_TRAY_Y	For internal use by Age Determination Unit.
AGE_TRAY_GOA	For internal use by Age Determination Unit.
AGE_TRAY_GOA_X	For internal use by Age Determination Unit.
AGE_TRAY_GOA_Y	For internal use by Age Determination Unit.

## Table Name: FOREIGN\_AGE

This table contains age and biological data (and some maturity data) of individual specimens of commercially-important groundfish and Pacific salmon caught in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_AGE.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SPECIMEN_NUMBER	A unique number assigned a single specimen within a collection.

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**Table Name:** FOREIGN\_AGE

This table contains age and biological data (and some maturity data) of individual specimens of commercially-important groundfish and Pacific salmon caught in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
LENGTH	The fork length in centimeters.
AGE	The age of the fish, recorded in years. Recorded by age readers following examination of the specimens in the age determination laboratory.
INDIV_WEIGHT	The weight (to one-hundredth of a kilogram) of the individual fish from which the age structure (or maturity information) was taken.
SPECIAL_HANDLING	A one-digit numeric code associated with additional information related to the fish. NORPAC.FOREIGN_SPECIAL_HANDLING provides a description of the codes.
TOTAL_AGE	Unknown definition. Likely to have been a field used by the REFM Age Unit. A single numeric digit 0-9. Recorded for years 1975, 1976, 1977, 1983, and 1986, and only for salmon species 221, 222, and 223.
MATURITY_CODE	A one-digit numeric code used to identify the developmental stage of gonads. The meaning of the maturity code depends on the species for which the information is being collected. NORPAC.FOREIGN_MATURITY_CODE uses SPECIES and MATURITY_CODE to provide a description of the codes.
FILENAME	The original filename on the Burroughs computer system from which this data record came.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.

**Table Name:** FOREIGN\_BLEND

Total groundfish catch information from the foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1977-90. Information is summed by week, nation, area, vessel class, and species (also by company for joint venture operations in the years 1987-90). Provided information includes number of vessels processing fish (for years 1978 and 1982-90), number of days the vessels were on the fishing grounds, number of days observers were monitoring catches, the percentage of the days that were monitored, the foreign estimate of the catch, the observer estimate of the catch expanded to the number of days the vessels were on the grounds), and the official estimate (blend estimate) of the catch.

Column Name	Column Comments
WEEKENDING_DATE	The foreign_blend data are a weekly summation of catch (except for 1977, when the data were summed on a monthly basis). The weekending_date is the date (YYMMDD) of the last day associated with the summation period.
NATION	The name of the nation(s) associated with each fishing operation. These nations are: BULGARIA, JAPAN, MEXICO, POLAND, PORTUGAL, PRC (People's Republic of China), ROK (Republic of Korea), TAIWAN, USSR (United Soviet Socialist Republic), WEST GERMANY, US-BULGARIA, US-ICELAND, US-JAPAN, US-POLAND, US-PORTUGAL, US-PRC, US-ROK, US-SPAIN, US-TAIWAN, US-USSR, US-W.GERMANY. All nation names beginning with US- are joint venture operations between the United States and a foreign nation.
AREA_NAME	The name of the International North Pacific Fish Commission area in which the catch was made. These areas are: BERING SEA 1, BERING SEA 2, BERING SEA 3, ALEUTIANS, SHUMAGIN, CHIRIKOF, SHELKOF STR. (1986 only), KODIAK, YAKUTAT, S. E. ALASKA, VANCOUVER, COLUMBIA, EUREKA, MONTEREY.
SPECIES_NAME	The name of the species group. In the Bering Sea/Aleutians, the species groups are: ALL FLOUNDERS (1977 Japan only), ARROWTOOTH FL (1986-90), ATKA MACKEREL, FLOUNDER WO YFS, GREENLAND TURBOT (1986 only), HERRING, OTHER FISH, PACIFIC COD, POLLOCK, POP, ROCKFISH WO POP, ROCK SOLE (1989-90), SABLEFISH, SNAILS, SQUID, TURBOTS, YELLOWFIN SOLE. In the Gulf of Alaska, the species groups are: ALL FLOUNDERS, ATKA MACKEREL, DEMERSAL RF (1988 only), HERRING, OTHER FISH, PACIFIC COD, PELAGIC RF (1988 only), POLLOCK, POP, RATTAILS, ROCKFISH WO POP, SABLEFISH, SLOPE ROCKFISH (1988 only), SQUID, SS THORNYHEAD. In Washington-Oregon-California, the species groups are: ALL FLOUNDERS, ALL ROCKFISH (1977-79), FLATFISH DISC, JACK DISCARD, JACK

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**Table Name:** FOREIGN\_BLEND  
**Total groundfish catch information from the foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1977-90. Information is summed by week, nation, area, vessel class, and species (also by company for joint venture operations in the years 1987-90). Provided information includes number of vessels processing fish (for years 1978 and 1982-90), number of days the vessels were on the fishing grounds, number of days observers were monitoring catches, the percentage of the days that were monitored, the foreign estimate of the catch, the observer estimate of the catch expanded to the number of days the vessels were on the grounds), and the official estimate (blend estimate) of the catch.**

Column Name	Column Comments
VESSEL_CLASS	MACKEREL, OTHER DISCARD, OTHER FISH, OTHER RF DISC, PACIFIC WHITING, POP, POP DISCARDS, ROCKFISH WO POP, SABLEFISH, SABLEFISH DIS, SHORTBELLY RF (1982 only). Refer to NOAA TECH.MEM. NMFS F/NWC-99 for changes that occurred within the species groups for years 1977-84. After 1984, very few changes occurred and are all noted here. The vessel type used in the fishing operations. In 1977-79, larger trawlers were separated by size into MED TRAWLER and LG TRAWLER. From 1980 on, larger trawlers were separated based on their ability to make surimi. If they could make surimi, they were SURIMI TRAWL; if not, they were LG FRZ TRAWL. Longliners were all listed as LONGLINER in 1977-79. From 1980 on, they were separated by target into LONGLINE COD (targeting Pacific cod) and LONGLINE SAB (targeting sablefish). From 1977-79, all surimi motherships were combined into SURIMI MSHIP. From 1980 on, each surimi mothership was classified separately (SURIMI MSHIP1, SURIMI MSHIP2, SURIMI MSHIP3, SURIMI MSHIP4, SURIMI MSHIP5). From 1977-85, all joint venture motherships were listed as a single vessel type (JV MSHIP). From 1986 on, joint venture motherships were separated by target and surimi capability (OTHER FREEZER JV, OTHER SURIMI JV, YELL/FLAT FRZ JV, YELL/FLAT SUR JV, POLL-BOT FRZ JV (1989 only), POLL-BOT SUR JV (1989 only), POLL-MID FRZ JV (1989 only), POLL-MID SUR JV (1989 only) [No joint ventures targeted pollock in 1990]). Three additional vessel types, JV/LG FRZ TRAWL, JV/SURIMI TRAWL, AND LL COD/JV MSHIP identified the portion of fish caught by a fishing vessel itself, in the same week that it was processing another vessel's catch in a joint venture operation. The other vessel types were: FREEZER MSHIP (no surimi capability), SNAILPOT, SMALL TRAWL.
COMPANY	A code initiated in 1987 to differentiate between the different companies involved in joint venture operations. The first two digits identified the nationality of the processing vessel, and the second two digits identified different companies within that nationality. IJ designated Iceland, JA designated Japan, KS designated the Republic of Korea (ROK), PC designated the People's Republic of China (PRC), PL designated Poland, and UR designated the USSR. A list associating company name with company code is not currently available.
AREA_NUMBER	The number associated with the International North Pacific Fish Commission area_name. From 1977-85, the numbers (and areas) were: 51 (BERING SEA 1), 52 (BERING SEA 2), 53 (BERING SEA 3), 54 (ALEUTIANS), 61 (SHUMAGIN), 62 (CHIRIKOF), 63 (KODIAK), 64 (YAKUTAT), 65 (S.E. ALASKA), 67 (VANCOUVER), 71 (COLUMBIA), 72 (EUREKA), 73 (MONTEREY). In 1986, the numbers (and areas) were: 510 (BERING SEA 1), 520 (BERING SEA 2), 530 (BERING SEA 3), 540 (ALEUTIANS), 610 (SHUMAGIN), 620 (CHIRIKOF), 621 (SHELKOF STR.), 630 (KODIAK), 640 (YAKUTAT), 650 (S.E. ALASKA), 670 (VANCOUVER), 710 (COLUMBIA), 720 (EUREKA), 730 (MONTEREY). Also, in 1986, in BERING SEA 1, joint venture operations were recorded by sub-areas and had area_numbers of 511, 513 and 514. In 1987-90, all fishing operations in BERING SEA 1 and BERING SEA 2 were recorded by sub-areas. Within BERING SEA 1, the sub-areas were: 511, 513, 514, 515, 516, 517. Within BERING SEA 2, the sub-areas were: 521, 522. All other areas had the same area numbers as in 1986. SHELKOF STR (621) was only listed as a separate area in 1986.
WEEK_NUMBER	The week number of the year (i.e., the first calendar week of each year [whether a full week or not] was week number 1, the second calendar week was week number 2, etc.).
NO_OF_VESSELS	The number of foreign vessels involved in fishing operations for the weekending_date, nation, area_number, vessel_class, and company (where applicable).
NO_OF_FOREIGN_DAYS	The combined number of days that foreign vessels involved in fishing operations were on the grounds for the weekending_date, nation, area_number, vessel_class, and company

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Total groundfish catch information from the foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1977-90. Information is summed by week, nation, area, vessel class, and species (also by company for joint venture operations in the years 1987-90). Provided information includes number of vessels processing fish (for years 1978 and 1982-90), number of days the vessels were on the fishing grounds, number of days observers were monitoring catches, the percentage of the days that were monitored, the foreign estimate of the catch, the observer estimate of the catch expanded to the number of days the vessels were on the grounds), and the official estimate (blend estimate) of the catch.

Column Name	Column Comments
	(where applicable).
NO_OF_OBSERVER_DAYS	The combined number of days that observers were available to sample aboard foreign vessels for the weekending_date, nation, area_number, vessel_class, and company (where applicable).
PERCENT_COVERAGE	The no_of_observer_days divided by the no_of_foreign_days multiplied by 100 and rounded to the nearest whole number.
FOREIGN_TONNAGE	The number of tons of the species group caught by the foreign vessels for the weekending_date, nation, area_number, vessel_class, and company (where applicable) as reported by the foreign nation.
OBSERVER_TONNAGE	The number of tons of the species group caught by the foreign vessels for the weekending_date, nation, area_number, vessel_class, and company (where applicable) as estimated and reported by the observers.
BLEND_TONNAGE	The best estimate of the number of tons of the species group caught by the foreign vessels for the weekending_date, nation, area_number, vessel_class, and company (where applicable). This value is either the foreign_tonnage or the observer_tonnage and which value is selected depends on the following algorithm. If the percent_coverage is less than 20.0% (not rounded), the foreign_tonnage is selected. If the result of the foreign_tonnage divided by the observer_tonnage is between 0.9 and 1.1 (not rounded), the foreign_tonnage is selected. If neither of these conditions are met, the observer_tonnage is selected.
YR	The four digits of the year in which fishing occurred.
WEEK_DATE	The week_date is the weekending_date converted into a date format (MM/DD/YYYY HH:MM:SS). Hours, minutes, and seconds are all 0.

## Table Name: FOREIGN\_CATCHER\_BOAT

This table links the ADFG\_number in the NORPAC.FOREIGN\_HAUL table with the catcher\_boat\_name.

Column Name	Column Comments
ADFG_NUMBER	The Alaska Department of Fish and Game (ADF&G) vessel code number of the delivering US vessel.
COAST_GUARD_NUMBER	The US Coast Guard vessel code number of the delivering US vessel.
CATCHER_BOAT_NAME	The name of the delivering US vessel.

## Table Name: FOREIGN\_CATCHER\_BOAT\_GEAR

This table links the catcher\_boat\_gear code in the NORPAC.FOREIGN\_DETAIL\_MOTHERSHIP table with the catcher\_boat\_gear descriptions.

Column Name	Column Comments
CATCHER_BOAT_GEAR	A one-digit numeric code associated with the catcher_boat_gear.
CATCHER_BOAT_GEAR_NAME	A definition of the gear associated with this code: 1 - Pair trawl; 2 - Danish seine; 3 - Otter trawl; 4 - Danish seine and Otter trawl combined; 5 - Danish seine and Pair trawl combined; 6 - Danish seine, Pair Trawl, and Otter trawl combined; 7 - Pair trawl and Otter trawl combined.

## Table Name: FOREIGN\_CONTRACTOR

This table links the contractor code in the NORPAC.FOREIGN\_OBSERVER table with a description of the code.

Column Name	Column Comments
CONTRACTOR	Abbreviation of the name of the organization that provided the observer.

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**Table Name:** FOREIGN\_CONTRACTOR  
This table links the contractor code in the NORPAC.FOREIGN\_OBSERVER table with a description of the code.

Column Name	Column Comments
CONTRACTOR_NAME	Name of the organization that provided the observer.

**Table Name:** FOREIGN\_CRAB\_MATURITY  
This table contains golden king crab maturity data collected aboard 3 Japanese stern trawlers in 1981.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
CARAPACE_LENGTH	Observed length (cm) of the carapace of the specimen.
CHELA_HEIGHT	Height (mm) of the cheliped (portion of the crab that makes up the pincher), measured from between the anterior two pairs of spines on the dorsal surface of the right chela to the closest point on the ventral surface.
FEMALE_CRAB_MATURITY	A one-digit numeric code to identify the maturity of the female crab. These codes are defined in the NORPAC.FOREIGN_CRAB_MATURITY_CODE table. 1 - no eggs; 2 - eggs; 3 - egg cases.
FILENAME	The original filename on the Burroughs computer system from which this data record came.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FCM	For internal use only.

**Table Name:** FOREIGN\_CRAB\_MATURITY\_CODE  
This table links the Golden king crab female\_crab\_maturity codes in the NORPAC.FOREIGN\_CRAB\_MATURITY table with the female\_crab\_maturity definitions.

Column Name	Column Comments
FEMALE_CRAB_MATURITY	A one-digit numeric code to identify the maturity of the female crab.
FEMALE_CRAB_MATURITY_DEF	A definition of the maturity associated with this code. 1 - no eggs; 2 - eggs; 3 - egg cases.

**Table Name:** FOREIGN\_DETAIL\_HAUL  
For the years 1985-1990, both the set position and retrieval position were often recorded for each haul. This table provides whatever set position, retrieval position, delivery position, and noon position information that was recorded for each haul for those years.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).

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**Table Name:** FOREIGN\_DETAIL\_HAUL  
For the years 1985-1990, both the set position and retrieval position were often recorded for each haul. This table provides whatever set position, retrieval position, delivery position, and noon position information that was recorded for each haul for those years.

Column Name	Column Comments
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
LOCATION_ID	A one-digit alpha code that indicates what type of fishing activity occurred at the latitude and longitude recorded. R = the position of the vessel when the retrieval of the haul/set was begun, D = the position of the vessel when a delivery was completed to a mothership, N = the position of the vessel at noon (Greenwich Mean Time) on a day when no fishing took place and the vessel was not in port, S = the position of the vessel when gear began being set.
LATITUDE	A four-digit number recorded in degrees and minutes north. The geographical position associated with the LOCATION_ID.
E_W	Direction of longitude, E = east and W = west of the 180th meridian.
LONGITUDE	A five-digit number recorded in degrees and minutes west of 0 degrees. Any position west of 180 degrees is stored as a value greater than 18000, e.g., 170 degrees east longitude = 19000. The geographical position associated with the LOCATION_ID.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FDH	For internal use only.

**Table Name:** FOREIGN\_DETAIL\_MOTHERSHIP  
This table contains much the same information as NORPAC.FOREIGN\_HAUL but only for non-joint venture motherships. It contains only the fields that are pertinent to motherships. It contains an additional field, CATCHER\_BOAT\_GEAR, which is used to subdivide daily mothership data by gear type code. The NORPAC.FOREIGN\_CATCHER\_BOAT\_GEAR table provides a description of the codes.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
CATCHER_BOAT_GEAR	A one-digit numeric code to identify the gear used by the catcher boat(s) delivering to a mothership.
LOCATION_ID	A one-digit alpha code that indicates what type of fishing activity occurred at the latitude and longitude recorded. R = the position of the vessel when the retrieval of the haul/set was begun, D = the position of the vessel when a delivery was completed to a mothership, N = the position of the vessel at noon (Greenwich Mean Time) on a day when no fishing took place and the vessel was not in port, S = the position of the vessel when gear began being set.
LATITUDE	A four-digit number recorded in degrees and minutes north. The geographical position associated with the LOCATION_ID.
E_W	Direction of longitude, E = east and W = west of the 180th meridian.
LONGITUDE	A five-digit number recorded in degrees and minutes west of 0 degrees. Any position west of 180 degrees is stored as a value greater than 18000, e.g., 170 degrees east longitude = 19000. The geographical position associated with the LOCATION_ID.
FISHING_DEPTH	The average fishing depth at which fishing took place, in meters.
DURATION	Average duration (minutes) of the tows delivered.
NUMBER_OF_TOWS	Number of tows delivered during that day. Is null where individual hauls are identified separately.

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**Table Name:** FOREIGN\_DETAIL\_MOTHERSHIP

This table contains much the same information as NORPAC.FOREIGN\_HAUL but only for non-joint venture motherships. It contains only the fields that are pertinent to motherships. It contains an additional field, CATCHER\_BOAT\_GEAR, which is used to subdivide daily mothership data by gear type code. The NORPAC.FOREIGN\_CATCHER\_BOAT\_GEAR table provides a description of the codes.

Column Name	Column Comments
OFFICIAL_TOTAL_CATCH	Final estimate of catch weight (MT) for the set or haul, made by vessel personnel, includes both retained and discarded species, and is recorded to the nearest one-hundredth of a metric ton. If original_ships_estimate is not null, official_total_catch is the original_ships_estimate adjusted by the observer to include prohibited species and non-allocated species. If NUMBER_OF_TOWS>0, then OFFICIAL_TOTAL_CATCH is the total catch for the day.
WEATHER	A one-digit numeric code identifying the weather conditions during the fishing operation. NORPAC.FOREIGN_WEATHER provides a description of the codes.
SEA	A one-digit numeric code identifying the sea conditions during the fishing operation. NORPAC.FOREIGN_SEA provides a description of the codes.
SURFACE_WATER_TEMP	The temperature of the surface water in degrees Celsius.
BOTTOM_WATER_TEMP	The temperature of the water at fishing depth in degrees Celsius.
FILENAME	The original filename on the Burroughs computer system from which this data record came.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.

**Table Name:** FOREIGN\_DETAIL\_PROHIBS

This table contains the original (corrected) observer data for foreign trawlers, motherships, snail pot vessels, and joint venture operations. No data have been extrapolated in this database. These data are from all species of king crab (species 2), Tanner crab (species 3), Pacific halibut (species 101), and Pacific salmon (species 220 and 226) that were found in the prohibited species samples.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SAMPLE_NUMBER	In sampling a longline set or a day's mothership operation or a day's joint venture operation, each portion of the set or delivery that was sampled received a unique sample_number within the set (usually, a 1, 2, or 3).
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.
WEIGHT_IN_SAMPLE	The total weight in kilograms of the specified species which occurred within the sample.
NUMBER_OF_SKATES_SAMPLED	The number of hachi (skates) that were sampled for prohibited species.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
WEIGHT_SAMPLED	The total weight in kilograms of all of the sampled species in the sample.
PK_FDP	For internal use only.

**Table Name:** FOREIGN\_DETAIL\_PRO\_SEX\_COMP

This table contains species composition data for the prohibited species found within the haul

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## Table Name: FOREIGN\_DETAIL\_PRO\_SEX\_COMP

This table contains species composition data for the prohibited species found within the haul samples.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SAMPLE_NUMBER	In sampling a longline set or a day's mothership operation or a day's joint venture operation, each portion of the set or delivery that was sampled received a unique sample_number within the set, (usually 1, 2, or 3).
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.
WEIGHT_IN_SAMPLE	The total weight in kilograms of the specified species which occurred within the sample.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FDPSC	For internal use only.

## Table Name: FOREIGN\_DETAIL\_SPCOMP

This table contains the original (corrected) observer data for foreign trawlers, motherships, snail pot vessels, and joint venture operations. No data have been extrapolated in this database. These data are from all species (including prohibited species) that were found in the species composition samples.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
DT	Similar to NORPAC.DOMESTIC_SPCOMP.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SAMPLE_NUMBER	In sampling a longline set or a day's mothership operation or a day's joint venture operation, each portion of the set or delivery that was sampled received a unique sample_number within the set (usually, a 1, 2, or 3).
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
WEIGHT_SAMPLED	The total weight in kilograms of all of the sampled species in the sample.
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.
WEIGHT_IN_SAMPLE	The total weight in kilograms of the specified species which occurred within the sample.
NUMBER_OF_POTS_SAMPLED	The number of pots in the set that were sampled for species composition.
NUMBER_OF_SKATES_SAMPLED	The number of hachi (skates) that were sampled for species composition.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_DETAIL\_SPCOMP

This table contains the original (corrected) observer data for foreign trawlers, motherships, snail pot vessels, and joint venture operations. No data have been extrapolated in this database. These data are from all species (including prohibited species) that were found in the species composition samples.

Column Name	Column Comments
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FDSP	For internal use only.

## Table Name: FOREIGN\_EXTRAPOLATION

This table links the extrapolation\_type code in the NORPAC.FOREIGN\_SPCOMP table with a description of the code.

Column Name	Column Comments
EXTRAPOLATION_TYPE	A one-digit numeric extrapolation code.
EXTRAPOLATION_TYPE_DEFINITON	A definition associated with the extrapolation code. 0 - non-prohibited species. Are extrapolated up to an official_total_catch adjusted by subtracting out the expanded weight of extrapolation_type 2 species. 1 - prohibited species not separated out prior to species composition sampling. Are extrapolated up to an official_total_catch adjusted by subtracting out the expanded weight of extrapolation_type 2 species. 2 - prohibited species separated out before species composition sampling occurred. Are extrapolated up to official_total_catch.

## Table Name: FOREIGN\_FISHING\_OPERATION

This table links the cruise and vessel in several of the major foreign tables (HAUL, SPCOMP, LENGTH, AGE) with pertinent information associated with the cruise and vessel.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
JV_Y_N	A one-digit alpha code which identifies whether the data associated with this cruise and vessel are joint venture data or not. Y = Yes; N = No.
VESSEL_TYPE_CODE	A one-digit numeric code associated with vessel type. NORPAC.FOREIGN_VESSEL_TYPE provides a description of the codes.
PROCESSING_TYPE_CODE	A one-digit numeric code associated with processing type. NORPAC.FOREIGN_PROCESSING_TYPE provides a description of the codes.
OLD_CRUISE	The original cruise number associated with this cruise and vessel. The original cruise number is the cruise number that is recorded on the paper forms.
OLD_VESSEL	The original vessel code associated with this cruise and vessel. The original vessel code is the vessel code that is recorded on the paper forms.
COMMENTS	This field is usually empty. It contains additional information about the cruise and vessel.
FILENAME_HAUL	The original filename on the Burroughs computer system from which the haul data for this record came.
FILENAME_LENGTH	The original filename on the Burroughs computer system from which the length data for this record came.
FILENAME_SPCOMP	The original filename on the Burroughs computer system from which the species composition data for this record came.
FILENAME_AGE	The original filename on the Burroughs computer system from which the age data for this record came.

## Table Name: FOREIGN\_HAUL

This table contains haul-by-haul vessel data, fishing effort, and total catch in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
SPEED	Average towing speed of the vessel during the tow, recorded to the tenth of a knot. Recorded from the vessel logbook.
WEATHER	A one-digit numeric code identifying the weather conditions during the fishing operation. NORPAC.FOREIGN_WEATHER provides a description of the codes.
SEA	A one-digit numeric code identifying the sea conditions during the fishing operation.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_HAUL

This table contains haul-by-haul vessel data, fishing effort, and total catch in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
	NORPAC.FOREIGN_SEA provides a description of the codes.
SURFACE_WATER_TEMP	The temperature of the surface water in degrees Celsius.
BOTTOM_WATER_TEMP	The temperature of the water at fishing depth in degrees Celsius.
DELIVERY_TIME	The time (Greenwich Mean Time) when the tow was delivered to the joint venture mothership. Recorded from vessel logs or observer observation.
NUMBER_OF_SKATES	The number of hachi (skates) for a single set.
HOOKS_PER_SKATE	The average number of hooks in a hachi (skate).
OBSERVER_CATCH_ESTIMATE	Estimate of total catch for the set or haul made by the observer, recorded to the nearest one-hundredth of a metric ton. See observer instruction manuals for specific information on possible estimation methods.
ORIGINAL_SHIPS_ESTIMATE	Similar to NORPAC.DOMESTIC_HAUL.VESSEL_ESTIMATE, this is the initial estimate of the catch made by the vessel, recorded to one-hundredth of a metric ton.
ADFG_NUMBER	If a U. S. vessel delivered the haul to a vessel carrying an observer, this field contains the Alaska Department of Fish and Game (ADF&G) vessel code number of the delivering vessel. NORPAC.FOREIGN_CATCHER_BOAT provides the names of the catcher boats and the coast guard numbers associated with the codes.
NUMBER_OF_POTS	For pot vessels, the total number of pots in a set, i.e., the number of pots or group of pots in the set that were retrieved.
MM_MONITORED_RANDOM_HAUL_JOIN	This field is null.
GENERIC_AREA	An assigned, unique number (up to 6 digits) that uniquely identifies each haul/set associated with vessel data. NORPAC.FOREIGN_HAUL.HAUL_JOIN links a single haul record to records in many of the foreign tables.
HAUL_SAMPLED_BY	A three-digit number representing NORPAC database management subareas which, in most cases, are similar to NPFMC management areas. NORPAC.AREA links latitude and longitude to GENERIC_AREA (called GENERIC).
CRUISE	A one-digit numeric code indicating whether or not a haul was sampled for species composition: 0 = not sampled, 9 = sampled. If more than one observer was onboard the vessel, there is no way of knowing which observer sampled the haul.
VESSEL	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
YEAR	A unique four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	A four-digit number identifying the year in which the gear retrieval of the haul began or in which the noon position occurred.
HAUL	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
LOCATION_ID	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. Additionally, a day in which a vessel was on grounds is occasionally recorded with a haul number of 0 (zero) if no codend, longline set, or pot group retrievals were begun.
LATITUDE	A one-digit alpha code that indicates what type of fishing activity occurred at the latitude and longitude recorded. R = the position of the vessel when the retrieval of the haul/set was begun, D = the position of the vessel when a delivery was completed to a mothership, N = the position of the vessel at noon (Greenwich Mean Time) on a day when no fishing took place and the vessel was not in port, S = the position of the vessel when gear began being set.
E_W	A four-digit number recorded in degrees and minutes north. The geographical position associated with the LOCATION_ID.
LONGITUDE	Direction of longitude, E = east and W = west of the 180th meridian.
FISHING_DEPTH	A five-digit number recorded in degrees and minutes west of 0 degrees. Any position west of 180 degrees is stored as a value greater than 18000, e.g., 170 degrees east longitude = 19000. The geographical position associated with the LOCATION_ID.
BOTTOM_DEPTH	The average fishing depth at which fishing took place, in meters.
	The average of the lowest points on the ocean floor where fishing took place (in meters). This is only recorded for joint venture vessels.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_HAUL

This table contains haul-by-haul vessel data, fishing effort, and total catch in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
NETS_ON_BOTTOM	The time when the net reached fishing depth (in Greenwich Mean Time). Use DURATION and NETS_OFF_BOTTOM and subtract to determine the date.
NETS_OFF_BOTTOM	The time when the net began to be retrieved from fishing depth (in Greenwich Mean Time). The date is the same date as DT.
DURATION	For longline or pot vessels, the time interval from the time that the first part of the line/pot-group was set until the time that the last of the line/pot-group was retrieved (also known as soak time). For trawlers, duration is the length of time during which the net was at fishing level. Duration is the difference between the NETS_ON_BOTTOM and the NETS_OFF_BOTTOM. Recorded in minutes.
NUMBER_OF_TOWS	Is only not null for vessels where fishing information is recorded as a daily event. Prior to 1977, all data were compiled as a daily event and are associated with a Noon Position. When HAUL=0, then NUMBER_OF_TOWS is the number of tows that occurred that day. After 1976, only true motherships and, through 1983, joint venture motherships were combined on a daily basis. In 1988, two cruises (2943 B002 and 2977 B002) were the exception to this rule. The observers made a mistake and the data were combined by day. For an unknown reason, there are also 17 records where HAUL=0, NUMBER_OF_TOWS>0, and OFFICIAL_TOTAL_CATCH is null.
OFFICIAL_TOTAL_CATCH	Final estimate of catch weight (MT) for the set or haul, made by vessel personnel, includes both retained and discarded species, and is recorded to the nearest one-hundredth of a metric ton. If original_ships_estimate is not null, official_total_catch is the original_ships_estimate adjusted by the observer to include prohibited species and non-allocated species. If NUMBER_OF_TOWS>0, then OFFICIAL_TOTAL_CATCH is the total catch for the day.

## Table Name: FOREIGN\_LENGTH

This table contains length-frequency data of prohibited species and commercially-important groundfish caught in the foreign and joint venture groundfish fishery. Also contains viability condition data for Pacific halibut.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
DT	Similar to NORPAC.DOMESTIC_LENGTH.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
SIZE_GROUP	Similar to NORPAC.DOMESTIC_LENGTH.LENGTH, this is the length measurement group for a species and sex. For fish, the fork length in centimeters. For crabs, the carapace width (Tanner crab) or carapace length (king crab) to the nearest 5 mm interval, ending in a 3 or an 8.
FREQUENCY	The number of individuals in the species, sex, and size group for the haul/set.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.

## Table Name: FOREIGN\_LOONGLINE\_PROHIB\_SAMPLE

This table contains the original (corrected) observer data for foreign longliners from all species of king crab (species 2), Tanner crab (species 3), Pacific halibut (species 101), and Pacific salmon (species 220 and 226) that were found in the prohibited species samples. No data have

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_LONGLINE\_PROHIB\_SAMPLE

This table contains the original (corrected) observer data for foreign longliners from all species of king crab (species 2), Tanner crab (species 3), Pacific halibut (species 101), and Pacific salmon (species 220 and 226) that were found in the prohibited species samples. No data have been extrapolated in this database.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
YEAR	A four-digit number identifying the year in which the gear retrieval of the set began.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SAMPLE_NUMBER	In sampling a longline set or a day's mothership operation or a day's joint venture operation, each portion of the set or delivery that was sampled received a unique sample_number within the set (usually, a 1, 2, or 3).
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
WEIGHT_SAMPLED	The total weight in kilograms of all of the sampled species in the sample.
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.
WEIGHT_IN_SAMPLE	The total weight in kilograms of the specified species which occurred within the sample.
NUMBER_OF_SKATES_SAMPLED	The number of hachi (skates) that were sampled for prohibited species.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FLPS	For internal use only.

## Table Name: FOREIGN\_LONGLINE\_SPCOMP\_SAMPLE

This table contains the original (corrected) observer data for foreign longliners and contains data from all species (including prohibited species) that were found in the species composition samples. No data have been extrapolated in this database.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
YEAR	A four-digit number identifying the year in which the gear retrieval of the set began.
DT	Similar to NORPAC.DOMESTIC_SPCOMP.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SAMPLE_NUMBER	In sampling a longline set or a day's mothership operation or a day's joint venture operation, each portion of the set or delivery that was sampled received a unique sample_number within the set (usually, a 1, 2, or 3).
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
WEIGHT_SAMPLED	The total weight in kilograms of all of the sampled species in the sample.
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.
WEIGHT_IN_SAMPLE	The total weight in kilograms of the specified species which occurred within the sample.
NUMBER_OF_SKATES_SAMPLED	The number of hachi (skates) that were sampled for species composition.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_LONGLINE\_SPCOMP\_SAMPLE

This table contains the original (corrected) observer data for foreign longliners and contains data from all species (including prohibited species) that were found in the species composition samples. No data have been extrapolated in this database.

Column Name	Column Comments
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PK_FLSS	single haul record in the NORPAC.FOREIGN_HAUL table.
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PK_FLSS	For internal use only.
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**Table Name:** FOREIGN\_MAMMAL

This table contains data collected for each haul (trawl vessels) or day (joint venture operations) monitored for marine mammals. Data from 1989 and 1990 only. Contains only records from joint venture operations except for 68 entries for a single Polish stern trawler fishing in the donut hole.

Column Name	Column Comments
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CRUISE	A unique number representing the number of different times that an observer had been assigned to a vessel from that specific country. Each time an observer was assigned to a different vessel, a new cruise number was assigned. Each country had its own set of cruise numbers starting with "1". The cruise number is associated with all of the data collected by the observer aboard the vessel. The combination of cruise number and vessel code creates a unique index of observer, vessel, country and year. Corresponds to OLD_CRUISE in the NORPAC.FOREIGN_FISHING_OPERATION table.
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VESSEL	A unique four-digit alpha-numeric code assigned to each fishing vessel, indicating specific vessel, gear type or activity (for a specific data set), and country of registry. The first letter gives the country of registry (J,A,N - Japan, R - U.S.S.R., P - Poland, K - Republic of Korea (ROK), M - Mexico, G - West Germany, B - Bulgaria, T - Taiwan, H - Portugal, C - People's Republic of China (PROC), W - U.S./Japan Joint Venture, Z - U.S./U.S.S.R. Joint Venture, X - U.S./Poland Joint Venture, Y - U.S./ROK Joint Venture, V - U.S./Bulgaria Joint Venture, U - U.S./Greece Joint Venture, O - U.S./West Germany Joint Venture, I - U.S./Spain Joint Venture, L - U.S./Taiwan Joint Venture, Q - U.S./PROC Joint Venture, S - U.S./Portugal Joint Venture, E - U.S./Iceland Joint Venture). The second letter gives the vessel gear type or activity (M - mothership or joint venture operation, S - stern trawler, L - longliner, P - snail pots). The last 2 characters are a code for the name of the specific vessel. Corresponds to OLD_VESSEL in the NORPAC.FOREIGN_FISHING_OPERATION table.
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YEAR	The last two digits of the year in which the haul or set was retrieved. Year is part of the day's date, which is recorded on all forms and used along with haul as a cross reference between data forms to link related sets of information.
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MONTH_DAY	A four-digit number representing the month and day in which a monitored haul retrieval began for trawl vessels.
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ENTRY_NUMBER	A number that corresponds to the record number in this table for a cruise, vessel combination. This is simply a sequential number that does not correspond to a haul_join value. Recorded for trips from 1989 forward.
--------------	--

HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
------	--

MOTHERSHIP_TONNAGE	An estimate of the day's catch delivered to a mothership vessel for the day that the catch of a marine mammal occurred. (Is currently a null field.)
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MOTHERSHIP_MONTH	The month in which hauls were monitored for marine mammals on a vessel acting as a mothership. (Is currently a null field.)
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MOTHERSHIP_DAY	The day in which hauls were monitored for marine mammals on a vessel acting as a mothership. (Is currently a null field.)
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NO_ANIMALS_CAUGHT	The number of marine mammals recorded in the catch for a haul.
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NO_ALIVE_RELEASED	The number of marine mammals released alive from a haul.
-------------------	--

NO_KILLED_BY_CREW	The number of marine mammals in the haul killed by the crew.
-------------------	--

NO_DEAD_IN_CATCH	The number of marine mammals that died prior to the catch being retrieved.
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NO_DECOMPOSED	The number of marine mammals found decomposed in a haul.
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**Table Name:** FOREIGN\_MATURITY\_CODE

This table links the maturity code in the NORPAC.FOREIGN\_AGE table with a description of the code.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_MATURITY\_CODE

This table links the maturity code in the NORPAC.FOREIGN\_AGE table with a description of the code.

Column Name	Column Comments
MATURITY_CODE	A one-digit numeric code used to identify the developmental stage of gonads. The meaning of the maturity code depends on the species for which the information is being collected.
MATURITY_CODE_DEFINITION	A definition of the maturity level associated with this code.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).

## Table Name: FOREIGN\_NATION

This table links the nation\_code in the NORPAC.FOREIGN\_VESSEL table with a description of the code.

Column Name	Column Comments
NATION_CODE	A one-digit alpha code associated with the vessel's country of registry.
NATION_NAME	Country of registry associated with the nation code.

## Table Name: FOREIGN\_OBSERVER

This table provides the observer name and contractor code associated with each cruise and vessel.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
CONTRACTOR	Abbreviation of the name of the organization that provided the observer. The NORPAC.FOREIGN_CONTRACTOR table contains a description of each abbreviation.
LAST_NAME	Last name of the observer who collected the sample data.
FIRST_NAME	First name of the observer who collected the sample data.
MIDDLE_NAME	Middle name of the observer who collected the sample data.
DOMESTIC_OBSERVER_LINK	For internal use only (is currently null).

## Table Name: FOREIGN\_POT\_SNAILS

This table contains snail meat catch information for years 1984, 1985, 1986, 1987, and 1989.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
OBSERVER_EST_WHOLE_SNAILS	The observer estimate of the whole weight of the catch of snails in metric tons (including shells).
VESSEL_EST_WHOLE_SNAILS	The vessel estimate of the whole weight of the catch of snails in metric tons (including shells).
OBSERVER_EST_RAW_SNAIL_MEAT	The observer estimate of the weight of the snail meat (metric tons).
AT	
VESSEL_EST_RAW_SNAIL_MEAT	The vessel estimate of the weight of the snail meat (metric tons).
OBSERVER_EST_COOKED_SNAIL_MEAT	The observer estimate of the weight of the cooked snail meat (metric tons).
FILENAME	The original filename on the Burroughs computer system from which this data record

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_POT\_SNAILS  
This table contains snail meat catch information for years 1984, 1985, 1986, 1987, and 1989.

Column Name	Column Comments
HAUL_JOIN	came. An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.

**Table Name:** FOREIGN\_PREDATION\_CODE  
This table links the sea\_lion\_predation\_code in the NORPAC.FOREIGN\_VIABILITY table with a description of the code (how many sea lions were preying on the catch).

Column Name	Column Comments
SEA_LION_PREDATION_CODE	A one-digit numeric code associated with sea lion predation.
SEA_LION_PREDATION_DEFINITI ON	The definition associated with the code (1: 0 sea lions, 2: 1-3 sea lions, 3: >3 sea lions).

**Table Name:** FOREIGN\_PROCESSING\_TYPE  
This table links the processing\_type\_code in the NORPAC.FOREIGN\_FISHING\_OPERATION table with a description of the code.

Column Name	Column Comments
PROCESSING_TYPE_CODE	A one-digit numeric code to identify the type of processing that occurs aboard the vessel.
PROCESSING_TYPE_DEFINITION	A definition associated with the processing_type_code (1 - surimi, 2 - freezer).

**Table Name:** FOREIGN\_PRODUCT  
This table provides product information for a wide range of species and products, 1980-1990. Some information was provided by ship's personnel. Other information was collected by observers' monitoring and weighing the products as they were being processed. The product codes can be found in the Observer Program's collection of Manuals for Biologists Aboard Foreign Groundfish Vessels.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
MONTH	A two-digit number representing the month in which the haul or set gear retrieval began. Month is part of the day's date, which is recorded on all forms and used along with haul as a cross reference between data forms to link related sets of information.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
INPFC_REGION	A two-digit numeric code representing the International North Pacific Fisheries Commission (INPFC) area or region in which the data were collected: 50 - Bering Sea/Aleutian Islands Region; 51 - Eastern Bering Sea Area; 52 - Central Bering Sea Area; 53 - Western Bering Sea Area; 54 - Aleutian Islands Area; 55 - Donut Hole Area; 60 - Gulf of Alaska Region; 61 - Shumagin Area; 62 - Chirikof Area; 63 - Kodiak Area; 64 - Yakutat/SE Alaska Area; 67 - Vancouver Area; 70 - Washington-Oregon-California Region; 71 - Columbia Area; 72 - Eureka Area; 73 - Monterey Area.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
PRODUCT_CODE	A two-digit numeric code identifying the type of product associated with the recovery rate. NORPAC.FOREIGN_PRODUCT_CODE provides a description of the codes.
H_M	A one-digit alpha code to identify whether the product was obtained by processing the fish by hand (H) or by machine (M).
VESSEL_PERCT_RECOVERY	The product recovery percentage used by vessel personnel to back-calculate to total weight.
VESSEL_UNIT_WEIGHT	The weight (in kg) of the standard sized packaging of the product as reported by the vessel (before freezing or addition of water).
OBSERVER_PERCT_RECOVERY	The product recovery percentage obtained by the observer by first weighing the fish before processing and then weighing the resultant product. If two product recovery percentages exist for the same vessel, date, area, species, and product, they represent a range of percentages for the product.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_PRODUCT

This table provides product information for a wide range of species and products, 1980-1990. Some information was provided by ship's personnel. Other information was collected by observers' monitoring and weighing the products as they were being processed. The product codes can be found in the Observer Program's collection of Manuals for Biologists Aboard Foreign Groundfish Vessels.

Column Name	Column Comments
OBSERVER_UNIT_WEIGHT	The weight (in kg) of the standard sized packaging of the product as weighed by the observer (before freezing or addition of water).
FILENAME	The original filename on the Burroughs computer system from which this data record came.
PK_FPRD	For internal use only.

## Table Name: FOREIGN\_PRODUCT\_CODE

This table links the product code in the NORPAC.FOREIGN\_PRODUCT table with a description of the code.

Column Name	Column Comments
PRODUCT_CODE	A two-digit numeric code to identify the type of product associated with the recovery rate.
PRODUCT_CODE_DEFINITION	A definition associated with the product code.

## Table Name: FOREIGN\_PROHIB7886

Prohibited species catch information from foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1978-86. These are monthly compilations separated by nation, area, vessel class and species. The information are provided for Pacific halibut, all king crab (combined), all Tanner crab (combined), all salmon (combined), and steelhead. The official groundfish catch estimate (blend estimate) is given as well as average weight per individual, number of individuals per ton of groundfish, total number of individuals, and total tons of individuals. A source code is listed, to identify whether the information came from data collected that month or from some other source.

Column Name	Column Comments
KINGCRAB_EST_NOS	The estimated total number of king crab caught for the year, month, nation, vessel_class, and area_number.
KINGCRAB_EST_TONS	The estimated tonnage of king crab caught for the year, month, nation, vessel_class, and area_number.
KINGCRAB_SOURCE	A one-digit number that indicates where the king crab information came from. 4 - the king crab information came from sampling from that year, month, nation, vessel_class, area_number. 5 - no king crab sample data was collected for that cell (year, nation, vessel_class, area_number) for that month, so the information on king crab average weight and numbers per ton came from sampling from that cell for the same quarter. 6 - no king crab sample data was collected for that cell for that month or quarter, so the information on king crab average weight and numbers per ton came from sampling from that cell from the other quarters of the year. 7 - no king crab sample data was collected for that cell for that month, quarter, or year, so the information on king crab average weight and numbers per ton came from sampling from that year, but from a different cell that was judged to give results similar to what would have been found for that cell.
TANNERCRAB_KG_PER_IND	The average weight (kg) of the individual Tanner crab found in the observers' samples.
TANNERCRAB_NOS_PER_TON	The number of Tanner crab caught per ton of allocated groundfish sampled for the presence of Tanner crab.
TANNERCRAB_EST_NOS	The estimated total number of Tanner crab caught for the year, month, nation, vessel_class, and area_number.
TANNERCRAB_EST_TONS	The estimated tonnage of Tanner crab caught for the year, month, nation, vessel_class, and area_number.
TANNERCRAB_SOURCE	A one-digit number that indicates where the Tanner crab information came from. 4 - the Tanner crab information came from sampling from that year, month, nation, vessel_class, area_number. 5 - no Tanner crab sample data was collected for that cell (year, nation, vessel_class, area_number) for that month, so the information on Tanner crab average weight and numbers per ton came from sampling from that cell for the same quarter. 6 - no Tanner crab sample data was collected for that cell for that month or quarter, so the

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_PROHIB7886  
**Prohibited species catch information from foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1978-86. These are monthly compilations separated by nation, area, vessel class and species. The information are provided for Pacific halibut, all king crab (combined), all Tanner crab (combined), all salmon (combined), and steelhead. The official groundfish catch estimate (blend estimate) is given as well as average weight per individual, number of individuals per ton of groundfish, total number of individuals, and total tons of individuals. A source code is listed, to identify whether the information came from data collected that month or from some other source.**

Column Name	Column Comments
	information on Tanner crab average weight and numbers per ton came from sampling from that cell from the other quarters of the year. 7 - no Tanner crab sample data was collected for that cell for that month, quarter, or year, so the information on Tanner crab average weight and numbers per ton came from sampling from that year, but from a different cell that was judged to give results similar to what would have been found for that cell.
SALMON_KG_PER_IND	The average weight (kg) of the individual salmon found in the observers' samples.
SALMON_NOS_PER_TON	The number of salmon caught per ton of allocated groundfish sampled for the presence of salmon.
SALMON_EST_NOS	The estimated total number of salmon caught for the year, month, nation, vessel_class, and area_number.
SALMON_EST_TONS	The estimated tonnage of salmon caught for the year, month, nation, vessel_class, and area_number.
SALMON_SOURCE	A one-digit number that indicates where the salmon information came from. 4 - the salmon information came from sampling from that year, month, nation, vessel_class, area_number. 5 - no salmon sample data was collected for that cell (year, nation, vessel_class, area_number) for that month, so the information on salmon average weight and numbers per ton came from sampling from that cell for the same quarter. 6 - no salmon sample data was collected for that cell for that month or quarter, so the information on salmon average weight and numbers per ton came from sampling from that cell from the other quarters of the year. 7 - no salmon sample data was collected for that cell for that month, quarter, or year, so the information on salmon average weight and numbers per ton came from sampling from that year, but from a different cell that was judged to give results similar to what would have been found for that cell.
STEELHEAD_KG_PER_IND	The average weight (kg) of the individual steelhead found in the observers' samples.
STEELHEAD_NOS_PER_TON	The number of steelhead caught per ton of allocated groundfish sampled for the presence of steelhead.
STEELHEAD_EST_NOS	The estimated total number of steelhead caught for the year, month, nation, vessel_class, and area_number.
STEELHEAD_EST_TONS	The estimated tonnage of steelhead caught for the year, month, nation, vessel_class, and area_number.
STEELHEAD_SOURCE	A one-digit number that indicates where the steelhead information came from. 4 - the steelhead information came from sampling from that year, month, nation, vessel_class, area_number. 5 - no steelhead sample data was collected for that cell (year, nation, vessel_class, area_number) for that month, so the information on steelhead average weight and numbers per ton came from sampling from that cell for the same quarter. 6 - no steelhead sample data was collected for that cell for that month or quarter, so the information on steelhead average weight and numbers per ton came from sampling from that cell from the other quarters of the year. 7 - no steelhead sample data was collected for that cell for that month, quarter, or year, so the information on steelhead average weight and numbers per ton came from sampling from that year, but from a different cell that was judged to give results similar to what would have been found for that cell. 0 - no steelhead were caught in that region (Bering Sea/Aleutians, or Gulf of Alaska, or Washington-Oregon-California) and year for any nation or vessel_class.
YEAR	The last two digits of the year in which the fishing occurred.
MONTH	The two digit numerical representation of the month in which the fishing occurred.
NATION	The name of the nation(s) associated with each fishing operation. These nations are: BULGARIA, JAPAN, MEXICO, POLAND, PORTUGAL, PRC (People's Republic of China), ROK (Republic of Korea), TAIWAN, USSR (United Soviet Socialist Republic), WEST

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_PROHIB7886  
 Prohibited species catch information from foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1978-86. These are monthly compilations separated by nation, area, vessel class and species. The information are provided for Pacific halibut, all king crab (combined), all Tanner crab (combined), all salmon (combined), and steelhead. The official groundfish catch estimate (blend estimate) is given as well as average weight per individual, number of individuals per ton of groundfish, total number of individuals, and total tons of individuals. A source code is listed, to identify whether the information came from data collected that month or from some other source.

Column Name	Column Comments
AREA_NAME	GERMANY, US-BULGARIA, US-GREECE, US-JAPAN, US-POLAND, US-PORTUGAL, US-PRC, US-ROK, US-SPAIN, US-TAIWAN, US-USSR, US-W. GERMANY. All nation names beginning with US- are joint venture operations between the United States and a foreign nation. The name of the International North Pacific Fish Commission area in which the catch was made. These areas are: BERING SEA 1, BERING SEA 2, BERING SEA 3, ALEUTIANS, SHUMAGIN, CHIRIKOF, KODIAK, YAKUTAT, S. E. ALASKA, VANCOUVER, COLUMBIA, EUREKA, MONTEREY.
VESSEL_CLASS	The vessel type used in the fishing operations. In 1978 and 1979, larger trawlers were separated by size into MED TRAWLER and LG TRAWLER. From 1980 on, larger trawlers were separated based on their ability to make surimi. If they could make surimi, they were called SURIMI TRAWL; if not, they were called LG FRZ TRAWL. Longliners were listed as a single vessel type (LONGLINER) in 1978-81. From 1982 on, they were separated by target into LONGLINE COD (targeting Pacific cod) and LONGLINE SAB (targeting sablefish). Two additional vessel types, JV/SURIMI TRAWL and LL COD/JV MSHIP, identified the portion of the catch caught by a fishing vessel itself, in the same week that it was processing another vessel's catch in a joint venture operation; JV MSHIP identified the portion of the catch delivered to the fishing vessel for processing. The other vessel types were: FREEZER MSHIP (no surimi capability), SNAIL POT, and SMALL TRAWL.
AREA_NUMBER	The number associated with the International North Pacific Fish Commission area_name. These numbers are: 51 (BERING SEA 1), 52 (BERING SEA 2), 53 (BERING SEA 3), 54 (ALEUTIANS), 61 (SHUMAGIN), 62 (CHIRIKOF), 63 (KODIAK), 64 (YAKUTAT), 65 (S. E. ALASKA), 67 (VANCOUVER), 71 (COLUMBIA), 72 (EUREKA), 73 (MONTEREY).
BLEND_TONNAGE	The best estimate of the allocated tonnage caught (i.e., combined tonnage caught of those species groups that had catch allocations) for the year, month, nation, vessel_class, and area_number.
HALIBUT_KG_PER_IND	The average weight (kg) of the individual halibut found in the observers' samples.
HALIBUT_NOS_PER_TON	The number of halibut caught per ton of allocated groundfish sampled for the presence of halibut.
HALIBUT_EST_NOS	The estimated total number of halibut caught for the year, month, nation, vessel_class, and area_number.
HALIBUT_EST_TONS	The estimated tonnage of halibut caught for the year, month, nation, vessel_class, and area_number.
HALIBUT_SOURCE	A one-digit number that indicates where the halibut information came from. 4 - the halibut information came from sampling from that year, month, nation, vessel_class, area_number. 5 - no halibut sample data was collected for that cell (year, nation, vessel_class, area_number) for that month, so the information on halibut average weight and numbers per ton came from sampling from that cell for the same quarter. 6 - no halibut sample data was collected for that cell for that month or quarter, so the information on halibut average weight and numbers per ton came from sampling from that cell from the other quarters of the year. 7 - no halibut sample data was collected for that cell for that month, quarter, or year, so the information on halibut average weight and numbers per ton came from sampling from that year, but from a different cell that was judged to give results similar to what would have been found for that cell.
KINGCRAB_KG_PER_IND	The average weight (kg) of the individual king crab found in the observers' samples.
KINGCRAB_NOS_PER_TON	The number of king crab caught per ton of allocated groundfish sampled for the presence of king crab.

**Table Name:** FOREIGN\_PROHIB8790  
 Prohibited species catch information from foreign and joint venture fishing operations in the

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_PROHIB8790  
**Prohibited species catch information from foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1987-90. These are weekly compilations separated by nation, area, vessel class, company (for joint venture operations), and species. The information are provided for Pacific halibut, red king crab, blue king crab, other king crab (combined), bairdi Tanner crab, other Tanner crab (combined), Chinook salmon, and other salmon (combined). The official groundfish catch estimate (blend estimate) is given as well as average weight per individual (Pacific halibut only), number of individuals per ton of groundfish, total number of individuals, and total tons of individuals (Pacific halibut only). A source code is listed, to identify whether the information came from data collected that week or from some other source.**

Column Name	Column Comments
WEEKENDING_DATE	These data are a weekly compilation. The weekending_date is the date (YYMMDD) of the last day associated with the compilation period.
NATION	The name of the nation(s) associated with each fishing operation. These nations are: JAPAN, POLAND, PRC (People's Republic of China), ROK (Republic of Korea), US-ICELAND, US-JAPAN, US-POLAND, US-PRC, US-ROK, US-USSR (United Soviet Socialist Republic). All nation names beginning with US- are joint venture operations between the United States and a foreign nation.
AREA_NAME	The name of the International North Pacific Fish Commission area in which the catch was made. These areas are: BERING SEA 1, BERING SEA 2, BERING SEA 3, ALEUTIANS, SHUMAGIN, CHIRIKOF, KODIAK, VANCOUVER, COLUMBIA, EUREKA, MONTEREY.
SPECIES_NAME	The name of the prohibited species group. The species groups are: BAIRDI TANNER CRAB, OTHER TANNER CRAB, RED KING CRAB, BLUE KING CRAB, OTHER KING CRAB, CHINOOK SALMON, OTHER SALMON, PACIFIC HALIBUT.
VESSEL_CLASS	The vessel type used in the fishing operations. The larger trawlers were separated based on their ability to make surimi. If they could make surimi, they were called SURIMI TRAWL; if not, they were called LG FRZ TRAWL. The smaller trawlers were called SMALL TRAWL. In 1987-90, longliners only targeted Pacific cod and so were called LONGLINE COD. Joint venture motherships were separated by target and surimi capability (OTHER FREEZER JV, OTHER SURIMI JV, YELL/FLAT FRZ JV, YELL/FLAT SUR JV, POLL-BOT FRZ JV (1989 only), POLL-BOT SUR JV (1989 only), POLL-MID FRZ JV (1989 only), POLL-MID SUR JV (1989 only) [No joint ventures targeted pollock in 1990]).
COMPANY	A code used to differentiate between the different companies involved in joint venture operations. The first two digits identified the nationality of the processing vessel, and the second two digits identified different companies within that nationality. IJ designated Iceland, JA designated Japan, KS designated the Republic of Korea (ROK), PC designated the Peoples Republic of China (PRC), PL designated Poland, and UR designated the USSR. A list associating company name with company code is not currently available.
AREA_NUMBER	The number associated with the International North Pacific Fish Commission area_name. Within BERING SEA 1, the sub-areas were: 511, 513, 514, 515, 516, 517. Within BERING SEA 2, the sub-areas were: 521, 522. The other areas were: 530 (BERING SEA 3), 540 (ALEUTIANS), 610 (SHUMAGIN), 620 (CHIRIKOF), 630 (KODIAK), 670 (VANCOUVER), 710 (COLUMBIA), 720 (EUREKA), 730 (MONTEREY).
BLEND_TONNAGE	The best estimate of the allocated tonnage caught (i.e., combined tonnage caught of those species groups that had catch allocations) for the year, month, nation, vessel_class, and area_number.
KG_PER_IND	The average weight (kg) of the individuals of that species found in the observers' samples (only collected for Pacific halibut).
NOS_PER_TON	The number of individuals caught per ton of allocated groundfish sampled for the presence of that species.
EST_NOS	The estimated total number of individuals of that species caught for the weekending_date, nation, vessel_class, area_number, and company (if applicable).
EST_TONS	The estimated tonnage of that species caught for the weekending_date, nation, vessel_class, area_number, and company (if applicable) (only collected for Pacific halibut).
SOURCE	A one-digit alpha code that indicates where the prohibited species information came from. If the field is null, the information came directly from sampling that occurred for that weekending_date and cell (nation, vessel_class, area_number, and company [company can be null]). If the field contains an M, no sampling occurred for that weekending_date

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_PROHIB8790  
**Prohibited species catch information from foreign and joint venture fishing operations in the Bering Sea and Aleutian Islands, Gulf of Alaska, and Washington-Oregon-California Regions for the years 1987-90. These are weekly compilations separated by nation, area, vessel class, company (for joint venture operations), and species. The information are provided for Pacific halibut, red king crab, blue king crab, other king crab (combined), bairdi Tanner crab, other Tanner crab (combined), Chinook salmon, and other salmon (combined). The official groundfish catch estimate (blend estimate) is given as well as average weight per individual (Pacific halibut only), number of individuals per ton of groundfish, total number of individuals, and total tons of individuals (Pacific halibut only). A source code is listed, to identify whether the information came from data collected that week or from some other source.**

Column Name	Column Comments
YR	and cell, so the information came from sampling that occurred from the same month for that cell. If the field contains a Q, no sampling occurred for that weekending_date or month for that cell, so the information came from sampling that occurred from the same quarter for that cell. If the field contains a Y, no sampling occurred for that weekending_date, month, or quarter for that cell, so the information came from sampling that occurred from the same year for that cell. If the field contains a C, there was no sampling data at all for that cell [company can't be null], so the sampling information came from the same weekending_date, nation, and vessel_class, but for all companies combined. If the field contains a D, there was no sampling data at all for that cell [company can't be null], so the sampling information came from the same month, nation, and vessel_class but for all companies combined. If the field contains an E, there was no sampling data for that cell [company can't be null], so the sampling information came from the same quarter, nation, and vessel_class but for all companies combined. If the field contains an F, there was no sampling data for that cell [company can't be null], so the sampling information came from the same year, nation, and vessel_class but for all companies combined. The last two digits of the year in which the fishing occurred.

**Table Name:** FOREIGN\_SEA  
**This table links the sea code in the NORPAC.FOREIGN\_HAUL table with a description of the code.**

Column Name	Column Comments
SEA	A one-digit numeric sea code (0 - 9) to identify the average wave height of the larger well-formed waves being observed.
SEA_DEFINITION	A definition associated with the sea code.

**Table Name:** FOREIGN\_SHELL\_CONDITION  
**This table contains the shell condition of crabs caught during 1988-1990. These are the original (corrected) observer data. No data have been extrapolated in this database.**

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_SHELL\_CONDITION

This table contains the shell condition of crabs caught during 1988-1990. These are the original (corrected) observer data. No data have been extrapolated in this database.

Column Name	Column Comments
SHELL_CONDITION	H - hard. S - soft.
FILENAME	The original filename on the Burroughs computer system from which this data record came.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FSC	For internal use only.

## Table Name: FOREIGN\_SPAWN

This table provides information on the percentage of pollock spawners encountered for selected cruises in 1984-88.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL_HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
LENGTH_TAKEN	A one-digit numeric code. 1 - Yes, lengths were taken. 2 - No, lengths were not taken. (Other responses in this field are 3, 4, and null. The meaning of these responses are unknown and are likely erroneous.)
PERCENT_SPAWN_FEMALES	The percentage of female pollock observed that were spawners.
AGE_STRUCTURE_TAKEN	A one-digit numeric code. 1 - Yes, age structures were taken. 2 - No, age structures were not taken. (The other response in this field was a null value. Likely, the observer neglected to fill in this field.)
FEEDING_OBSERVED	A one-digit numeric code. 1 - Yes, feeding was observed. 2 - No, feeding was not observed. (The other responses are 3 and null. The meaning of these responses are unknown and are likely erroneous.)
FILENAME	The original filename on the Burroughs computer system from which this data record came.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.

## Table Name: FOREIGN\_SPCOMP

This table contains species composition sampling data from catch made in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_SPCOMP_HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

## Table Name: FOREIGN\_SPCOMP

This table contains species composition sampling data from catch made in the foreign and joint venture groundfish fishery.

Column Name	Column Comments
SPECIES	A three-digit numeric code representing a marine species. This code is associated with species name in NORPAC.DOMESTIC_SPECIES (using the column name SPECIES_NO in place of SPECIES).
SEX	A one-digit alpha code indicating the sex of the organism. F = female, M = male, U = unknown.
WEIGHT_SAMPLED	The total weight in kilograms of all of the sampled species in the sample.
NUMBER_IN_SAMPLE	The number (count) of the specified species which occurred within the sample.
WEIGHT_IN_SAMPLE	The total weight in kilograms of the specified species which occurred within the sample.
NUMBER_OF_POTS_SAMPLED	The number of pots in the set that were sampled for species composition.
NUMBER_OF_SKATES_SAMPLED	The number of hachi (skates) that were sampled for species composition.
SPECIES_HAUL_NUMBER	The estimated number of the specified species in the entire haul extrapolated from the sample.
SPECIES_HAUL_WEIGHT	The estimated weight in kilograms of the specified species in the entire haul extrapolated from the sample.
EXTRAPOLATION_TYPE	A one-digit code associated with the procedure used to extrapolate the NUMBER_IN_SAMPLE and WEIGHT_IN_SAMPLE to SPECIES_HAUL_NUMBER and SPECIES_HAUL_WEIGHT. NORPAC.FOREIGN_EXTRAPOLATION provides a description of the codes.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.

## Table Name: FOREIGN\_SPECIAL\_HANDLING

This table links the special\_handling code in the NORPAC.FOREIGN\_AGE table with a description of the code.

Column Name	Column Comments
SPECIAL_HANDLING	A one-digit numeric special_handling code added by the age reader.
SPECIAL_HANDLING_DEFINITION	A definition associated with the special_handling code.

## Table Name: FOREIGN\_VESSEL

This table links the vessel code in several of the major foreign tables (HAUL, SPCOMP, LENGTH, AGE) with the name of the vessel and other features of the vessel.

Column Name	Column Comments
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
VESSEL_NAME	The name of the vessel.
NATION_CODE	A one-digit alpha code associated with the vessel's country of registry. The NORPAC.FOREIGN_NATION table provides a description of the codes.
PERMIT_NUMBER	A seven-digit value assigned to each distinct foreign fishing vessel upon receiving a permit to fish in U.S. waters.
VESSEL_LENGTH	The total length (in meters) of the vessel.
GRT	The Gross Registered Tons of the vessel.
COMMENTS	Name changes and permit number changes of the vessel.

## Table Name: FOREIGN\_VESSEL\_TYPE

This table links the vessel\_type\_code in the NORPAC.FOREIGN\_FISHING\_OPERATION table with a description of the code.

Column Name	Column Comments
VESSEL_TYPE_CODE	A one-digit numeric code to identify the type of fishing operation performed by the vessel.
VESSEL_TYPE_DEFINITION	A description of the fishing operation associated with the vessel_type_code.

## Table Name: FOREIGN\_VIABILITY

This table links viability data for Pacific halibut caught in the foreign and joint venture groundfish fishery with the length data from the same cruise, vessel, dt, year, and haul. Observers use a viability key developed by the International Pacific Halibut Commission (IPHC)

# Foreign Fishery Table and Column Comments Guide; AFSC - NORPAC Data Dictionary

**Table Name:** FOREIGN\_VIABILITY

This table links viability data for Pacific halibut caught in the foreign and joint venture groundfish fishery with the length data from the same cruise, vessel, dt, year, and haul. Observers use a viability key developed by the International Pacific Halibut Commission (IPHC) to judge viability.

Column Name	Column Comments
CRUISE	A unique four-digit number to represent each occasion that an observer was aboard a different fishing vessel during deployment. Cruise number is associated with all of the data collected by the observer aboard the vessel.
VESSEL	A unique, four-digit, alpha-numeric code identifying each vessel that contracts for observer coverage. All vessel codes begin with the alpha code B, followed by a three-digit number.
DT	Similar to NORPAC.DOMESTIC_HAUL.HAUL_DATE, this is the date in Greenwich Mean Time. Format is stored in the database as DD-MON-YY format (i.e., 15-MAR-86), and displayed as MM/DD/YYYY HH:MI:SS (i.e., 3/15/86 00:00:00).
YEAR	A four-digit number identifying the year in which the gear retrieval of the haul began.
HAUL	A unique number which identifies a specific occurrence of net, pot, or longline fishing effort. This table does not include "no fishing" days.
SPECIES	Species code 101, the code for Pacific halibut.
NUMBER_EXCELLENT	The number of Pacific halibut examined and determined to be in excellent condition.
NUMBER_POOR	The number of Pacific halibut examined and determined to be in poor condition.
NUMBER_DEAD	The number of Pacific halibut examined and determined to be dead or soon to be dead.
SEA_LION_PREDATION_CODE	A one-digit numeric code associated with the amount of sea lion predation. NORPAC.FOREIGN_PREDATION_CODE provides a description of the codes.
FILENAME	The original filename on the Burroughs computer system from which this data record came.
HAUL_JOIN	An assigned, unique number (up to 6 digits) used to link records in this table back to a single haul record in the NORPAC.FOREIGN_HAUL table.
PK_FVIA	For internal use only.

**Table Name:** FOREIGN\_WEATHER

This table links the weather code in the NORPAC.FOREIGN\_HAUL table with a description of the code.

Column Name	Column Comments
WEATHER	A one-digit numeric weather code (0 - 9).
WEATHER_DEFINITION	A definition associated with the weather code.