SEAMAP Groundfish Dataset Documentation

This document is meant to serve as a file structure reference for catch and effort data compiled from Gulf of Mexico Southeast Area Monitoring and Assessment Program (SEAMAP) Groundfish Survey. Observations in this dataset are limited to the United States waters of the Gulf of Mexico, collected during the SEAMAP Groundfish surveys from 1987 - 2010. The dataset is compiled from observations obtained from two independent data sources. Butch Pellegrin (NMFS) provided the data collected by NMFS and the Gulf States Marine Fisheries Commission (GSMFC) (dataset dated May 5, 2010) provided data from the state partners. Data users should be aware that the datasets are constantly being re-examined and updated. Therefore, analyses based on previous or subsequent versions of the data may yield different results. This dataset was originally produced in order to build species distribution maps for the Gulf of Mexico in response to the Deepwater Horizon Oil Spill. The dataset is static and will not be updated.

Questions concerning the original data, sampling design and its use may be directed to:

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Dataset

There is one csv file included ‘DWH Baseline SEAMAP Groundfish’ which contains both the information on where and when the operations (stations) took place and the catch at that particular station for a selected number of species.

Notes

This should be considered a derived analytical dataset; meaning that filtering of problem trawl stations, derivation of variables and collapsing of trawl stations has already been performed.

Under the original sampling design, trawl conducted by NFMS vessels were intended to cover a particular depth stratum, however trawls could not last longer than 55 minutes because of the lack of a turtle excluder device. Therefore, if the depth stratum was not covered in the initial 55 minutes, the trawl was brought on deck, emptied and another trawl started. In the original data, each trawl was considered a station, with each having the same SEAMAP station number. For purposes of this dataset, these individual stations have already been collapsed into one SEAMAP station.

In addition, any station that was marked with an operations code indicating a problem with the trawl, i.e. doors crossed, holes in net, hung net, etc., was removed from the final dataset.

This dataset was compiled by:

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STATION Dataset File Structure

 Variable – dataset variable name

 Type – character (Char) or numeric (Num) variable

 Len – variable length

|  |  |  |  |
| --- | --- | --- | --- |
| *#* | Variable | Type | Len |
| *1* | DATE\_GMT | Num | 8 |
| *2* | TIME\_GMT | Num | 8 |
| *3* | CRUISE | Num | 8 |
| *4* | VESSEL | Num | 8 |
| *5* | STATION | Char | 15 |
| *6* | LAT | Num | 8 |
| *7* | LON | Num | 8 |
| *8* | TOD | Char | 15 |
| *9* | SEASON | Char | 150 |
| *10* | DEPTH | Char | 4 |
| *11* | YEAR | Char | 12 |
| *12* | SOURCE | Char | 6 |
| *13* | STAT\_ZONE | Num | 8 |
| *14* | START\_DATE | Num | 8 |
| *15* | GEAR\_SIZE | Num | 8 |
| *16* | GEAR\_TYPE | Char | 6 |
| *17* | MESH\_SIZE | Num | 8 |
| *18* | TOWS | Num | 8 |
| *19* | VESSEL\_SPD | Num | 8 |
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| *281* | TIME\_ZONE | Num | 8 |
| *282* | MONTH | Num | 8 |

Explanation of Variables

DATE\_GMT

 GMT date when the trawl was started.

TIME\_GMT

GMT time when the trawl was started.

CRUISE

 Cruise number assigned to the particular survey.

VESSEL

Numeric code assigned to each ship used to collect the data. Used to link the datasets.

 04 – Oregon II

 17 – Tommy Munro

 23 – Alabama Inshore Vessels

 35 – Lumcon Pelican

 55 – Caretta

 63 – Gordon Gunter

STATION

 SEAMAP station number.

LAT

 Decimal degrees of latitude for the position of the start of the trawl.

LON

Decimal degrees of longitude for the position of the start of the trawl.

TOD

Time of day when the trawl was started, defined by sunrise and sunset:

 D – Day

 N – Night

SEASON

Season during which the trawl was conducted. (Summer, Fall, Spring, Winter)

DEPTH

Depth zone the trawl was conducted in, newer survey data has been post processed to fit into one of the original depth zones. First two digits represent the lower limit of the depth zone (in fathoms) and last two digits represent the upper limit of the depth zone (in fathoms).

YEAR

Year the trawl was conducted.

SOURCE

Code designating the collection agency:

 AL – Alabama

 FL – Florida

 LA – Louisiana

 MS – Mississippi

 US – NMFS

STAT\_ZONE

Shrimp statistical zone that the trawl was started in.

START\_DATE

Starting date and time of the trawl.

GEAR\_SIZE

Size of the gear used for the trawl, 40 stands for 42 foot.

GEAR\_TYPE

Type of gear used for the trawl, ST is shrimp trawl.

MESH\_SIZE

 Size of the mesh on the trawl.

TOWS

Number of tows that it took to complete a SEAMAP station.

VESSEL\_SPD

 Average speed of the vessel, in knots, during the tow.

MIN\_FISH

Total time (in minutes) of the trawl. In instances where multiple trawls were done, this is the total of those individual trawls.

TOT\_LIVE

Total amount of live (fish, invertebrates, etc.) catch (in kilograms) captured during the trawl.

FIN\_CATCH

Total amount of fish catch (in kilograms) captured during the trawl.

CRUS\_CATCH

Total amount of crustacean catch (in kilograms) captured during the trawl.

OTHR\_CATCH

Total amount of ‘other’ live catch (not including fish or crustacean) (in kilograms) captured during the trawl.

ALL VARIABLES STARTING WITH N\_

 Catch rate (CPUE) of the identified species expressed as number per hour

Examples:

N\_CARCHARHINUS – CPUE (number per hour) of individuals identified as *Carcharhinus* sp.

N\_LUTJANUS\_CAMPECHANUS – CPUE (number per hour) of individuals identified as *Lutjanus campechanus*

ALL VARIABLES STARTING WITH W\_

Catch rate (CPUE) of the identified species expressed as weight per hour

Examples:

W\_CARCHARHINUS – CPUE (weight per hour) of individuals identified as *Carcharhinus* sp.

W\_LUTJANUS\_CAMPECHANUS – CPUE (weight per hour) of individuals identified as *Lutjanus campechanus*

N\_CARCHARHINUS\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Carcharhinus* sp.*, Carcharhinus acronotus, Carcharhinus falciformis, Carcharhinus limbatus, Carcharhinus brevipinna, Carcharhinus plumbeus,*

*Carcharhinus obscurus, Carcharhinus isodon, Carcharhinus leucas* and *Carcharhinus signatus*

W\_CARCHARHINUS\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Carcharhinus* sp.*, Carcharhinus acronotus, Carcharhinus falciformis, Carcharhinus limbatus, Carcharhinus brevipinna, Carcharhinus plumbeus,*

*Carcharhinus obscurus, Carcharhinus isodon, Carcharhinus leucas* and *Carcharhinus signatus*

N\_MUSTELUS\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Mustelus* sp.*, Mustelus canis, Mustelus norrisi* and *Mustelus sinusmexicanus*

W\_MUSTELUS\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Mustelus* sp.*, Mustelus canis, Mustelus norrisi* and *Mustelus sinusmexicanus*

N\_SPHYRNA\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Sphyrna* sp.*, Sphyrna lewini, Sphyrna mokarran* and *Sphyrna tiburo*

W\_SPHYRNA\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Sphyrna* sp.*, Sphyrna lewini, Sphyrna mokarran* and *Sphyrna tiburo*

N\_GROUPER\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Epinephelus* sp.*, Epinephelus niveatus, Epinephelus nigritus, Epinephelus adscensionis, Epinephelus drummondhayi, Epinephelus flavolimbatus, Epinephelus guttatus, Epinephelus itajara, Epinephelus morio, Mycteroperca* sp.*, Mycteroperca microlepis, Mycteroperca phenax, Mycteroperca bonaci* and

*Mycteroperca interstitialis*

W\_GROUPER\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Epinephelus* sp.*, Epinephelus niveatus, Epinephelus nigritus, Epinephelus adscensionis, Epinephelus drummondhayi, Epinephelus flavolimbatus, Epinephelus guttatus, Epinephelus itajara, Epinephelus morio, Mycteroperca* sp.*, Mycteroperca microlepis, Mycteroperca phenax, Mycteroperca bonaci* and

*Mycteroperca interstitialis*

N\_LUTJANUS\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Lutjanus* sp.*, Lutjanus campechanus, Lutjanus griseus, Lutjanus synagris, Lutjanus vivanus, Lutjanus apodus* and *Lutjanus buccanella*

W\_LUTJANUS\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Lutjanus* sp.*, Lutjanus campechanus, Lutjanus griseus, Lutjanus synagris, Lutjanus vivanus, Lutjanus apodus* and *Lutjanus buccanella*

N\_CYNOSCION\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Cynoscion* sp.*, Cynoscion arenarius, Cynoscion nothus* and

*Cynoscion nebulosus*

W\_CYNOSCION\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Cynoscion* sp.*, Cynoscion arenarius, Cynoscion nothus* and

*Cynoscion nebulosus*

N\_LOLIGO\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Loligo* sp.*, Loligo pealeii, Loligo pleii* and *Loligo roperi*

W\_LOLIGO\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Loligo* sp.*, Loligo pealeii, Loligo pleii* and *Loligo roperi*

N\_SERIOLA\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Seriola* sp.*, Seriola dumerili, Seriola fasciata, Seriola rivoliana* and *Seriola zonata*

W\_SERIOLA\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Seriola* sp.*, Seriola dumerili, Seriola fasciata, Seriola rivoliana* and *Seriola zonata*

N\_AURELIA\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Aurelia* sp. and *Aurelia aurita*

W\_AURELIA\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Aurelia* sp. and *Aurelia aurita*

N\_BREVOORTIA\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Brevoortia* sp.*, Brevoortia patronus, Brevoortia gunteri,*

*Brevoortia smithi* and *Brevoortia tyrannus*

W\_BREVOORTIA\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Brevoortia* sp.*, Brevoortia patronus, Brevoortia gunteri,*

*Brevoortia smithi* and *Brevoortia tyrannus*

N\_SEA\_TURTLE\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Dermochelys coriacea, Chelonia mydas, Caretta caretta, Lepidochelys kempi* and *Eretmochelys imbricata*

W\_SEA\_TURTLE\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Dermochelys coriacea, Chelonia mydas, Caretta caretta, Lepidochelys kempi* and *Eretmochelys imbricata*

N\_CALINECTES\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Callinectes similis* and *Callinectes sapidus*

W\_CALINECTES\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Callinectes similis* and *Callinectes sapidus*

N\_SQUILLA\_ALL

Catch rate (CPUE) of the identified species expressed as number per hour. Species included in ‘\_ALL’ were: *Squilla* sp.*, Squilla empusa* and *Squilla chydaea*

W\_SQUILLA\_ALL

Catch rate (CPUE) of the identified species expressed as weight per hour. Species included in ‘\_ALL’ were: *Squilla* sp.*, Squilla empusa* and *Squilla chydaea*

TIME\_ZONE

Time zone code. Valid values are:

            2 – Eastern Daylight Savings Time
               3 – Central Standard Time

4 – Central Daylight Savings Time

         8 – Greenwich Mean Time

MONTH

 Numerical value for the month that the trawl was conducted in.