

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
20	MIN_FISH	Num	8
21	TOT_LIVE	Num	8
22	FIN_CATCH	Num	8
23	CRUS_CATCH	Num	8
24	OTHR_CATCH	Num	8
25	N_CARCHARHINUS	Num	4
26	N_CARCHARHINUS_ACRONOTUS	Num	4
27	N_CARCHARHINUS_FALCIFORMIS	Num	4
28	N_CARCHARHINUS_LIMBATUS	Num	4
29	N_CARCHARHINUS_BREVIPINNA	Num	4
30	N_CARCHARHINUS_PLUMBEUS	Num	4
31	N_CARCHARHINUS_OBSCURUS	Num	4
32	N_CARCHARHINUS_ISODON	Num	4

33	N_RHIZOPRIONODON_TERRAENOVAE	Num	4
34	N_MUSTELUS	Num	4
35	N_MUSTELUS_CANIS	Num	4
36	N_MUSTELUS_NORRISI	Num	4
37	N_MUSTELUS_SINUSMEXICANUS	Num	4
38	N_SPHYRNA_LEWINI	Num	4
39	N_SPHYRNA_MOKARRAN	Num	4
40	N_SPHYRNA_TIBURO	Num	4
41	N_BREVOORTIA_PATRONUS	Num	4
42	N_ETRUMEUS_TERES	Num	4
43	N_ANCHOA_HEPSETUS	Num	4
44	N_ARIUS_FELIS	Num	4
45	N_BAGRE_MARINUS	Num	4
46	N_EPINEPHELUS	Num	4
47	N_EPINEPHELUS_NIVEATUS	Num	4
48	N_EPINEPHELUS_NIGRITUS	Num	4
49	N_EPINEPHELUS_ADSCENSIONIS	Num	4
50	N_EPINEPHELUS_DRUMMONDHAYI	Num	4
51	N_EPINEPHELUS_FLAVOLIMBATUS	Num	4
52	N_EPINEPHELUS_GUTTATUS	Num	4
53	N_MYCTEROPERCA	Num	4
54	N_MYCTEROPERCA_MICROLEPIS	Num	4
55	N_MYCTEROPERCA_PHENAX	Num	4
56	N_DECAPTERUS_PUNCTATUS	Num	4
57	N_TRACHURUS_LATHAMI	Num	4
58	N_LUTJANUS	Num	4
59	N_LUTJANUS_CAMPECHANUS	Num	4
60	N_LUTJANUS_GRISEUS	Num	4
61	N_LUTJANUS_SYNAGRIS	Num	4
62	N_LUTJANUS_VIVANUS	Num	4
63	N_PRISTIPOMOIDES_AQUILONARIS	Num	4
64	N_RHOMBOPLITES_AURORUBENS	Num	4
65	N_CYNOSCION	Num	4
66	N_CYNOSCION_ARENARIUS	Num	4
67	N_CYNOSCION_NOTHUS	Num	4
68	N_LEIOSTOMUS_XANTHURUS	Num	4
69	N_MENTICIRRHUS_AMERICANUS	Num	4
70	N_MICROPOGONIAS_UNDULATUS	Num	4
71	N_PAGRUS_PAGRUS	Num	4
72	N_STENOTOMUS_CAPRINUS	Num	4

73	N_MULLUS_AURATUS	Num	4
74	N_SCOMBEROMORUS_CAVALLA	Num	4
75	N_SCOMBEROMORUS_MACULATUS	Num	4
76	N_PARALICHTHYS_LETHOSTIGMA	Num	4
77	N_BALISTES_CAPRISCUS	Num	4
78	N_PENAEUS	Num	4
79	N_SHRIMP_BROWN	Num	4
80	N_SHRIMP_PINK	Num	4
81	N_SHRIMP_WHITE	Num	4
82	N_SYNODUS_FOETENS	Num	4
83	N_LOLIGO	Num	4
84	N_LOLIGO_PEALEII	Num	4
85	N_LOLIGO_PLEII	Num	4
86	N_LOLIGO_ROPERI	Num	4
87	N_PEPRIUS_BURTI	Num	4
88	N_CHLOROSCOMBRUS_CHRYSURUS	Num	4
89	N_LAGODON_RHOMBOIDES	Num	4
90	N_TRICHIURUS_LEPTURUS	Num	4
91	N_CALLINECTES_SIMILIS	Num	4
92	N_CENTROPRISTIS_PHILADELPHICUS	Num	4
93	N_PRIONOTUS_LONGISPINOSUS	Num	4
94	N_PRIONOTUS_PARALATUS	Num	4
95	N_UPENEUS_PARVUS	Num	4
96	N_SERRANUS_ATROBRANCHUS	Num	4
97	N_SICYONIA_BREVIROSTRIS	Num	4
98	N_TRACHYPENEUS_SIMILIS	Num	4
99	N_SERIOLA	Num	4
100	N_SERIOLA_DUMERILI	Num	4
101	N_SERIOLA_FASCIATA	Num	4
102	N_SERIOLA_RIVOLIANA	Num	4
103	N_SERIOLA_ZONATA	Num	4
104	N_SCIAENOPS_OCELLATUS	Num	4
105	N_CORYPHAENA_HIPPURUS	Num	4
106	N_ACANTHOCYBIUM_SOLANDERI	Num	4
107	N_AURELIA	Num	4
108	N_AURELIA_AURITA	Num	4
109	N_CARCHARHINUS_LEUCAS	Num	4
110	N_CARCHARHINUS_SIGNATUS	Num	4
111	N_SPHYRNA	Num	4
112	N_BREVOORTIA	Num	4

113	N_BREVOORTIA_GUNTERI	Num	4
114	N_BREVOORTIA_SMITHI	Num	4
115	N_BREVOORTIA_TYRANNUS	Num	4
116	N_EPINEPHELUS_ITAJARA	Num	4
117	N_EPINEPHELUS_MORIO	Num	4
118	N_MYCTEROPERCA_BONACI	Num	4
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123	N_DERMOCHELYS_CORIACEA	Num	4
124	N_CHELONIA_MYDAS	Num	4
125	N_CARETTA_CARETTA	Num	4
126	N_LEPIDOCHELYS_KEMPI	Num	4
127	N_ERETMOCHELYS_IMBRICATA	Num	4
128	N_CALLINECTES_SAPIDUS	Num	4
129	N_AMUSIUM_PAPYRACEUM	Num	4
130	N_SQUILLA	Num	4
131	N_SQUILLA_EMPUSA	Num	4
132	N_SQUILLA_CHYDAEA	Num	4
133	N_RAJA_EGLANTERIA	Num	4
134	N_RAJA_TEXANA	Num	4
135	N_DASYATIS_AMERICANA	Num	4
136	N_DASYATIS_SABINA	Num	4
137	N_DASYATIS_SAY	Num	4
138	N_RHINOPTERA_BONASUS	Num	4
139	N_NARCINE_BRASILIENSIS	Num	4
140	W_CARCHARHINUS	Num	4
141	W_CARCHARHINUS_ACRONOTUS	Num	4
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232	W_EPINEPHELUS_MORIO	Num	4

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234	W_MYCTEROPERCA_INTERSTITIALIS	Num	4
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239	W_CHELONIA_MYDAS	Num	4
240	W_CARETTA_CARETTA	Num	4
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251	W_DASYATIS_SABINA	Num	4
252	W_DASYATIS_SAY	Num	4
253	W_RHINOPTERA_BONASUS	Num	4
254	W_NARCINE_BRASILIENSIS	Num	4
255	N_CARCHARHINUS_ALL	Num	8
256	W_CARCHARHINUS_ALL	Num	8
257	N_MUSTELUS_ALL	Num	8
258	W_MUSTELUS_ALL	Num	8
259	N_SPHYRNA_ALL	Num	8
260	W_SPHYRNA_ALL	Num	8
261	N_GROUPER_ALL	Num	8
262	W_GROUPER_ALL	Num	8
263	N_LUTJANUS_ALL	Num	8
264	W_LUTJANUS_ALL	Num	8
265	N_CYNOSCION_ALL	Num	8
266	W_CYNOSCION_ALL	Num	8
267	N_LOLIGO_ALL	Num	8
268	W_LOLIGO_ALL	Num	8
269	N_SERIOLA_ALL	Num	8
270	W_SERIOLA_ALL	Num	8
271	N_AURELIA_ALL	Num	8
272	W_AURELIA_ALL	Num	8

273	N_BREVOORTIA_ALL	Num	8
274	W_BREVOORTIA_ALL	Num	8
275	N_SEA_TURTLE_ALL	Num	8
276	W_SEA_TURTLE_ALL	Num	8
277	N_CALINECTES_ALL	Num	8
278	W_CALINECTES_ALL	Num	8
279	N_SQUILLA_ALL	Num	8
280	W_SQUILLA_ALL	Num	8
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 sinuomexicanus*

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 sinuasmexicanus*

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 kempfi* 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 kempfi* 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 chydrea*

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 chydrea*

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.