

# Assessment data

Gregory Britten

```
library(here)
```

```
## here() starts at /Users/gregorybritten/Dropbox/Working/nest_synchrony
```

Load RAM legacy stock assessment database

```
load('data/RAMLDB v4.495/R Data/DBdata[asmt][v4.495].RData')
ls()
```

```
## [1] "area" "assessment"
## [3] "assessmethod" "assessor"
## [5] "biometrics" "bioparams"
## [7] "bioparams_assessments_views" "bioparams_ids_views"
## [9] "bioparams_notes_views" "bioparams_sources_views"
## [11] "bioparams_units_views" "bioparams_values_views"
## [13] "cadv.data" "cddivmean.data"
## [15] "cddivmsy.data" "cpair.data"
## [17] "cpue.data" "divbpref.data"
## [19] "divbpref.mgt.data" "diver.data"
## [21] "diver.mgt.data" "divf.data"
## [23] "divf.mgt.data" "divssb.data"
## [25] "divssb.mgt.data" "divtb.data"
## [27] "divtb.mgt.data" "divtn.data"
## [29] "divtn.mgt.data" "divupref.data"
## [31] "divupref.mgt.data" "effort.data"
## [33] "er.data" "erbest.data"
## [35] "f.data" "management"
## [37] "metadata" "r.data"
## [39] "recc.data" "ssb.data"
## [41] "stock" "survb.data"
## [43] "tac.data" "taxonomy"
## [45] "tb.data" "tbbest.data"
## [47] "tc.data" "tcbest.data"
## [49] "timeseries" "timeseries_assessments_views"
## [51] "timeseries_ids_views" "timeseries_notes_views"
## [53] "timeseries_sources_views" "timeseries_units_views"
## [55] "timeseries_values_views" "timeseries_years_views"
## [57] "tl.data" "tn.data"
## [59] "tsmetrics"
```

```
head(stock[,c(1,3,4,7)])
```

##	stockid	scientificname	commonname	region
## 1	ACADRED2J3K	Sebastes fasciatus	Acadian redfish	Canada East Coast
## 2	ACADRED3LNO-UT12	Sebastes fasciatus	Acadian redfish	Canada East Coast
## 3	ACADREDGOMGB	Sebastes fasciatus	Acadian redfish	US East Coast
## 4	ACADREDUT3	Sebastes fasciatus	Acadian redfish	Canada East Coast
## 5	ACMACKSARG	Scomber colias	Argentine chub mackerel	South America
## 6	AFLONCH	Beryx splendens	Alfonsino	South America

```
stock[stock$region%in%c('Canada East Coast','US East Coast'),]
```

##	stockid	tsn	scientificname
## 1	ACADRED2J3K	166774	Sebastes fasciatus
## 2	ACADRED3LNO-UT12	166774	Sebastes fasciatus
## 3	ACADREDGOMGB	166774	Sebastes fasciatus
## 4	ACADREDUT3	166774	Sebastes fasciatus
## 15	AMPL23K	172877	Hippoglossoides platessoides
## 16	AMPL3LNO	172877	Hippoglossoides platessoides
## 17	AMPL3M	172877	Hippoglossoides platessoides
## 18	AMPL3Ps	172877	Hippoglossoides platessoides
## 19	AMPL4T	172877	Hippoglossoides platessoides
## 20	AMPL4VWX	172877	Hippoglossoides platessoides
## 21	AMPL5YZ	172877	Hippoglossoides platessoides
## 51	ARCSURF4RST	80983	Mactromeris polynyma
## 52	ARCSURFBANQ	80983	Mactromeris polynyma
## 53	ARCSURFGB	80983	Mactromeris polynyma
## 54	ARCSURFQCW	80983	Mactromeris polynyma
## 69	ATHAL3NOPs4VWX5Zc	172933	Hippoglossus hippoglossus
## 70	ATHAL4RST	172933	Hippoglossus hippoglossus
## 71	ATHAL5YZ	172933	Hippoglossus hippoglossus
## 74	ATLCROAKMATLC	169283	Micropogonias undulatus
## 78	AWOLF5YZ	171341	Anarhichas lupus
## 79	BCRABCHESB	98696	Callinectes sapidus
## 122	BLUEFISHATLC	168559	Pomatomus saltatrix
## 147	BSBASSMATLC	167687	Centropristis striata
## 150	BSKAT5YZSNE	564139	Dipturus laevis
## 151	BSKATCANATL	564139	Dipturus laevis
## 159	BUTTERGOMCHATT	172567	Peprilus triacanthus
## 170	CAPE2J3KL	162035	Mallotus villosus
## 171	CAPE4RST	162035	Mallotus villosus
## 199	COD1ABCDE	164712	Gadus morhua
## 201	COD1IN	164712	Gadus morhua
## 202	COD2J3KL	164712	Gadus morhua
## 203	COD3M	164712	Gadus morhua
## 204	COD3NO	164712	Gadus morhua
## 205	COD3Pn4RS	164712	Gadus morhua
## 206	COD3Ps	164712	Gadus morhua
## 207	COD4TVn	164712	Gadus morhua
## 208	COD4VsW	164712	Gadus morhua
## 209	COD4X	164712	Gadus morhua
## 210	COD4X5Yb	164712	Gadus morhua
## 211	COD5Zjm	164712	Gadus morhua
## 216	CODGB	164712	Gadus morhua
## 217	CODGOM	164712	Gadus morhua
## 342	CSKATMATLC	160855	Raja eglanteria

## 344	CUSK4X	164740	Brosme brosme
## 398	GHAL01ABCDEF	172930	Reinhardtius hippoglossoides
## 399	GHAL23KLMNO	172930	Reinhardtius hippoglossoides
## 400	GHAL4RST	172930	Reinhardtius hippoglossoides
## 435	GURCH4RST	157969	Strongylocentrotus droebachiensis
## 436	HAD3LNO	164744	Melanogrammus aeglefinus
## 437	HAD3Ps	164744	Melanogrammus aeglefinus
## 438	HAD4X5Y	164744	Melanogrammus aeglefinus
## 439	HAD5Y	164744	Melanogrammus aeglefinus
## 441	HADGB	164744	Melanogrammus aeglefinus
## 469	HERR4RFA	161722	Clupea harengus
## 470	HERR4RSP	161722	Clupea harengus
## 471	HERR4S	161722	Clupea harengus
## 472	HERR4SFS	161722	Clupea harengus
## 473	HERR4SSS	161722	Clupea harengus
## 474	HERR4TFA	161722	Clupea harengus
## 475	HERR4TSP	161722	Clupea harengus
## 476	HERR4VWX	161722	Clupea harengus
## 480	HERRNFLDESC	161722	Clupea harengus
## 484	HERRNWATLC	161722	Clupea harengus
## 505	ILLEXNWATLC	82521	Illex illecebrosus
## 545	LOBSTERGB	97314	Homarus americanus
## 546	LOBSTERGOM	97314	Homarus americanus
## 547	LOBSTERLFA15-18	97314	Homarus americanus
## 548	LOBSTERLFA19-21	97314	Homarus americanus
## 549	LOBSTERLFA22	97314	Homarus americanus
## 550	LOBSTERLFA23-26AB	97314	Homarus americanus
## 551	LOBSTERLFA27-33	97314	Homarus americanus
## 552	LOBSTERLFA3-14	97314	Homarus americanus
## 553	LOBSTERLFA34	97314	Homarus americanus
## 554	LOBSTERLFA35-38	97314	Homarus americanus
## 555	LOBSTERLFA41	97314	Homarus americanus
## 556	LOBSTERSNE	97314	Homarus americanus
## 561	LSKAT5YCHATT	564130	Leucoraja erinacea
## 564	LUMP3Pn4RS	167612	Cyclopterus lumpus
## 565	MACK5YCHATT	172414	Scomber scombrus
## 567	MACKNWATLSA3-4	172414	Scomber scombrus
## 573	MENATLAN	161732	Brevoortia tyrannus
## 575	MONK2J3KLNOs	164499	Lophius americanus
## 576	MONK3LNOPs	164499	Lophius americanus
## 577	MONKGOMNGB	164499	Lophius americanus
## 578	MONKSGBMATL	164499	Lophius americanus
## 649	OPOUTNWATLC	630979	Zoarces americanus
## 667	PANDAL2G-3K	96967	Pandalus borealis
## 668	PANDAL4RST	96967	Pandalus borealis
## 669	PANDALGOM	96967	Pandalus borealis
## 674	PANDALSFA13-15	96967	Pandalus borealis
## 675	PANDALSFA2-3	96967	Pandalus borealis
## 676	PANDALSFA4	96967	Pandalus borealis
## 677	PANDALSFA5	96967	Pandalus borealis
## 678	PANDALSFA6	96967	Pandalus borealis
## 731	POLL3Ps	164727	Pollachius virens
## 732	POLL4VWX	164727	Pollachius virens
## 733	POLL4VWX5	164727	Pollachius virens

## 734	POLL5YZ	164727	Pollachius virens
## 741	PORSHARATL	159911	Lamna nasus
## 924	QUAHATLC	81343	Arctica islandica
## 932	RDEEPCRABNWATL	620992	Chaceon quinquedens
## 937	REDDEEP2J3K-3LNO	166756	Sebastes mentella
## 941	REDDEEPUT12	166756	Sebastes mentella
## 945	REDFISHSPP1	166705	Sebastes spp
## 946	REDFISHSPP23K	166705	Sebastes spp
## 947	REDFISHSPP3LN	166705	Sebastes spp
## 948	REDFISHSPP3M	166705	Sebastes spp
## 949	REDFISHSPP3Pn4RSTVn	166705	Sebastes spp
## 950	REDFISHSPPUT1	166705	Sebastes spp
## 951	REDFISHSPPUT2	166705	Sebastes spp
## 959	RHAKEGOMNGB	164730	Urophycis chuss
## 960	RHAKESGBMATL	164730	Urophycis chuss
## 984	ROCKCRABLFA23-26	98679	Cancer irroratus
## 985	ROCKCRABQCW	98679	Cancer irroratus
## 1009	RSKATMATLC	564136	Leucoraja garmani
## 1060	SCALL3Ps	79718	Placoepecten magellanicus
## 1061	SCALL4T	79718	Placoepecten magellanicus
## 1062	SCALL5ZMAB	79718	Placoepecten magellanicus
## 1063	SCALLGB	79718	Placoepecten magellanicus
## 1064	SCALLNBB	79718	Placoepecten magellanicus
## 1065	SCALLSFA16-20	79718	Placoepecten magellanicus
## 1066	SCALLSPA1-6	79718	Placoepecten magellanicus
## 1067	SCALLWSFA29	79718	Placoepecten magellanicus
## 1068	SCHHEADATL	160508	Sphyrna lewini
## 1072	SCUPNWATLC	169182	Stenotomus chrysops
## 1073	SDOG4VWX5	160617	Squalus acanthias
## 1074	SDOGATLC	160617	Squalus acanthias
## 1087	SFLOUNMATLC	172735	Paralichthys dentatus
## 1091	SHAKE4VWX	164791	Merluccius bilinearis
## 1092	SHAKEGOMNGB	164791	Merluccius bilinearis
## 1093	SHAKESGBMATL	164791	Merluccius bilinearis
## 1104	SMDOGATL	160230	Mustelus canis
## 1110	SMOOTHSKA2J3K	564151	Malacoraja senta
## 1111	SMOOTHSKA4T	564151	Malacoraja senta
## 1123	SNOWCRAB2HJ	98428	Chionoecetes opilio
## 1124	SNOWCRAB2HJ3KLNOP4R	98428	Chionoecetes opilio
## 1125	SNOWCRAB2J	98428	Chionoecetes opilio
## 1126	SNOWCRAB3K	98428	Chionoecetes opilio
## 1127	SNOWCRAB3LNO	98428	Chionoecetes opilio
## 1128	SNOWCRAB3NO	98428	Chionoecetes opilio
## 1129	SNOWCRAB3Ps	98428	Chionoecetes opilio
## 1130	SNOWCRAB4R3Pn	98428	Chionoecetes opilio
## 1136	SNOWCRABSCMA12-17	98428	Chionoecetes opilio
## 1137	SNOWCRABSGSL	98428	Chionoecetes opilio
## 1292	SSCLAMQCW	81692	Mya arenaria
## 1295	SSKAT5YZSNE	564151	Malacoraja senta
## 1312	STRIPEDBASSGOMCHATT	167680	Morone saxatilis
## 1316	STRSHRIMPSFA2-3	96971	Pandalus montagui
## 1319	SURFMATLC	80944	Spisula solidissima
## 1343	TILEMATLC	168546	Lopholatilus chamaeleonticeps
## 1348	TSKA3LNOPs	564149	Amblyraja radiata

## 1349	TSKA4T	564149	Amblyraja radiata
## 1350	TSKAT5YZSNE	564149	Amblyraja radiata
## 1364	WEAKFISHATLC	169241	Cynoscion regalis
## 1365	WHAKE3NOPs	164732	Urophycis tenuis
## 1366	WHAKE3Ps	164732	Urophycis tenuis
## 1367	WHAKE4RS	164732	Urophycis tenuis
## 1368	WHAKE4T	164732	Urophycis tenuis
## 1369	WHAKE4VWX5	164732	Urophycis tenuis
## 1370	WHAKEGBGOM	164732	Urophycis tenuis
## 1379	WINDOWGOMGB	172746	Scophthalmus aquosus
## 1380	WINDOWSNEATL	172746	Scophthalmus aquosus
## 1381	WINFLOUN4T	172905	Pseudopleuronectes americanus
## 1382	WINFLOUN5Z	172905	Pseudopleuronectes americanus
## 1383	WINFLOUND5Y	172905	Pseudopleuronectes americanus
## 1384	WINFLOUNSNEMATL	172905	Pseudopleuronectes americanus
## 1385	WITFLOUN2J3KL	172873	Glyptocephalus cynoglossus
## 1386	WITFLOUN3Ps	172873	Glyptocephalus cynoglossus
## 1387	WITFLOUN4RST	172873	Glyptocephalus cynoglossus
## 1388	WITFLOUN5Y	172873	Glyptocephalus cynoglossus
## 1406	WSKAT5YCHATT	564145	Leucoraja ocellata
## 1408	WWHELKQCW	73795	Buccinum undatum
## 1410	YELL3LNO	172909	Limanda ferruginea
## 1411	YELL4T	172909	Limanda ferruginea
## 1412	YELLCCODGOM	172909	Limanda ferruginea
## 1413	YELLGB	172909	Limanda ferruginea
## 1414	YELLSNEATL	172909	Limanda ferruginea
##	commonname		areaid
## 1	Acadian redfish		Canada-DF0-2J3K
## 2	Acadian redfish		Canada-DF0-3LNO-UT12
## 3	Acadian redfish		USA-NMFS-5YZ
## 4	Acadian redfish		Canada-DF0-UT3
## 15	American plaice		Canada-DF0-23K
## 16	American plaice	multinational-NAFO-3LNO	
## 17	American plaice	multinational-NAFO-3M	
## 18	American plaice		Canada-DF0-3Ps
## 19	American plaice		Canada-DF0-4T
## 20	American plaice		Canada-DF0-4VWX
## 21	American plaice		USA-NMFS-5YZ
## 51	Arctic surfclam		Canada-DF0-Q4RST
## 52	Arctic surfclam		Canada-DF0-BANQ
## 53	Arctic surfclam		Canada-DF0-3LNO
## 54	Arctic surfclam		Canada-DF0-QCW
## 69	Atlantic halibut	Canada-DF0-3NOPs4VWX5Zc	
## 70	Atlantic halibut		Canada-DF0-4RST
## 71	Atlantic halibut		USA-NMFS-5YZ
## 74	Atlantic croaker		USA-NMFS-MATLC
## 78	Atlantic wolffish		USA-NMFS-5YZ
## 79	Blue crab		USA-MDSTATE-CHESB
## 122	Bluefish		USA-NMFS-ATLC
## 147	Black sea bass		USA-NMFS-MATLC
## 150	Barndoor skate		USA-NMFS-5YZSNE
## 151	Barndoor skate		Canada-DF0-ATL
## 159	Atlantic butterflyfish		USA-NMFS-5YCHATT
## 170	Capelin		Canada-DF0-2J3KL

## 171	Capelin	Canada-DF0-4RST
## 199	Atlantic cod	multinational-ICES-1ABCDE
## 201	Atlantic cod	multinational-ICES-1IN
## 202	Atlantic cod	Canada-DF0-2J3KL
## 203	Atlantic cod	multinational-NAFO-3M
## 204	Atlantic cod	multinational-NAFO-3NO
## 205	Atlantic cod	Canada-DF0-3Pn4RS
## 206	Atlantic cod	Canada-DF0-3Ps
## 207	Atlantic cod	Canada-DF0-4T
## 208	Atlantic cod	Canada-DF0-4VsW
## 209	Atlantic cod	Canada-DF0-4X
## 210	Atlantic cod	Canada-DF0-4X5Yb
## 211	Atlantic cod	multinational-TRAC-5Zjm
## 216	Atlantic cod	USA-NMFS-5Z
## 217	Atlantic cod	USA-NMFS-5Y
## 342	Clearnose skate	USA-NMFS-MATLC
## 344	Cusk	Canada-DF0-4X
## 398	Greenland halibut	multinational-NAFO-01ABCDEFGF
## 399	Greenland halibut	multinational-NAFO-23KLMNO
## 400	Greenland halibut	Canada-DF0-4RST
## 435	Green sea urchin	Canada-DF0-4RST
## 436	Haddock	multinational-NAFO-3LNO
## 437	Haddock	Canada-DF0-3Ps
## 438	Haddock	Canada-DF0-4X5Y
## 439	Haddock	USA-NMFS-5Y
## 441	Haddock	USA-NMFS-GB
## 469	Herring	Canada-DF0-4RFS
## 470	Herring	Canada-DF0-4RSS
## 471	Herring	Canada-DF0-4S
## 472	Herring	Canada-DF0-4SFS
## 473	Herring	Canada-DF0-4SSS
## 474	Herring	Canada-DF0-4TFS
## 475	Herring	Canada-DF0-4TSS
## 476	Herring	Canada-DF0-4VWX
## 480	Herring	Canada-DF0-NFLDESC
## 484	Herring	USA-NMFS-NWATLC
## 505	Northern shortfin squid	USA-NMFS-NWATLC
## 545	American lobster	USA-NMFS-5Z
## 546	American lobster	USA-NMFS-5Y
## 547	American lobster	Canada-DF0-LFA15-18
## 548	American lobster	Canada-DF0-LFA19-21
## 549	American lobster	Canada-DF0-LFA22
## 550	American lobster	Canada-DF0-LFA23-26AB
## 551	American lobster	Canada-DF0-LFA27-33
## 552	American lobster	Canada-DF0-LFA3-14
## 553	American lobster	Canada-DF0-LFA34
## 554	American lobster	Canada-DF0-LFA35-38
## 555	American lobster	Canada-DF0-LFA41
## 556	American lobster	USA-NMFS-SNE
## 561	Little skate	USA-NMFS-5YCHATT
## 564	Lumpfish	Canada-DF0-3Pn4RS
## 565	Atlantic mackerel	USA-NMFS-5YCHATT
## 567	Mackerel	Canada-DF0-NWATLSA3-4
## 573	Atlantic menhaden	USA-NMFS-ATL

## 575	Monkfish	Canada-DF0-2J3KLNOPs
## 576	Monkfish	Canada-DF0-3LNOPs
## 577	Monkfish	USA-NMFS-GOMNGB
## 578	Monkfish	USA-NMFS-SGBMATL
## 649	Ocean pout	USA-NMFS-NWATLC
## 667	Northern shrimp	Canada-DF0-2G-3K
## 668	Northern shrimp	Canada-DF0-4RST
## 669	Northern shrimp	USA-NMFS-5Y
## 674	Northern shrimp	Canada-DF0-SFA13-15
## 675	Northern shrimp	Canada-DF0-SFA2-3
## 676	Northern shrimp	Canada-DF0-SFA4
## 677	Northern shrimp	Canada-DF0-SFA5
## 678	Northern shrimp	Canada-DF0-SFA6
## 731	Pollock	Canada-DF0-3Ps
## 732	Pollock	Canada-DF0-4VWX
## 733	Pollock	Canada-DF0-4VWX5
## 734	Pollock	USA-NMFS-5YZ
## 741	Porbeagle shark	Canada-DF0-ATL
## 924	Ocean quahog	USA-NMFS-ATLC
## 932	Red deepsea crab	USA-NMFS-NWATL
## 937	Deepwater redfish	Canada-DF0-2J3K-3LNO
## 941	Deepwater redfish	Canada-DF0-UT12
## 945	Redfish species	multinational-NAFO-1
## 946	Redfish species	Canada-DF0-23K
## 947	Redfish species	multinational-NAFO-3LN
## 948	Redfish species	multinational-NAFO-3M
## 949	Redfish species	Canada-DF0-3Pn4RSTVn
## 950	Redfish species	Canada-DF0-UT1
## 951	Redfish species	Canada-DF0-UT2
## 959	Red hake	USA-NMFS-GOMNGB
## 960	Red hake	USA-NMFS-SGBMATL
## 984	Rock crab	Canada-DF0-4T
## 985	Rock crab	Canada-DF0-QCW
## 1009	Rosette skate	USA-NMFS-MATLC
## 1060	Sea scallop	Canada-DF0-3Ps
## 1061	Sea scallop	Canada-DF0-4T
## 1062	Sea scallop	USA-NMFS-5ZMAB
## 1063	Sea scallop	Canada-DF0-5Z
## 1064	Sea scallop	Canada-DF0-NBB
## 1065	Sea scallop	Canada-DF0-SCFA16-20
## 1066	Sea scallop	Canada-DF0-SPA1-6
## 1067	Sea scallop	Canada-DF0-WSFA29
## 1068	Scalloped hammerhead	USA-NMFS-ATL
## 1072	Scup	USA-NMFS-NWATLC
## 1073	Spiny dogfish	Canada-DF0-4VWX5
## 1074	Spiny dogfish	USA-NMFS-ATLC
## 1087	Summer flounder	USA-NMFS-MATLC
## 1091	Silver hake	Canada-DF0-4VWX
## 1092	Silver hake	USA-NMFS-5YZ
## 1093	Silver hake	USA-NMFS-SGBMATL
## 1104	Smooth dogfish	USA-NMFS-ATL
## 1110	Smooth skate	Canada-DF0-2J3K
## 1111	Smooth skate	Canada-DF0-4T
## 1123	Snow crab	Canada-DF0-2HJ

## 1124	Snow crab	Canada-DF0-2HJ3KLNOP4R
## 1125	Snow crab	Canada-DF0-2J
## 1126	Snow crab	Canada-DF0-3K
## 1127	Snow crab	Canada-DF0-3LNO
## 1128	Snow crab	Canada-DF0-3NO
## 1129	Snow crab	Canada-DF0-3Ps
## 1130	Snow crab	Canada-DF0-4R3Pn
## 1136	Snow crab	Canada-DF0-SCMA12-17
## 1137	Snow crab	Canada-DF0-4T
## 1292	Softshell clam	Canada-DF0-QCW
## 1295	Smooth skate	USA-NMFS-5YZSNE
## 1312	Striped bass	USA-NMFS-5YCHATT
## 1316	Aesop shrimp	Canada-DF0-SFA2-3
## 1319	Atlantic surfclam	USA-NMFS-MATLC
## 1343	Tilefish	USA-NMFS-MATLC
## 1348	Thorny skate	multinational-NAFO-3LNOPs
## 1349	Thorny skate	Canada-DF0-4T
## 1350	Thorny skate	USA-NMFS-5YZSNE
## 1364	Weakfish	USA-NMFS-ATLC
## 1365	White hake	multinational-NAFO-3NOPs
## 1366	White hake	multinational-NAFO-3Ps
## 1367	White hake	Canada-DF0-4RS
## 1368	White hake	Canada-DF0-4T
## 1369	White hake	Canada-DF0-4VWX5
## 1370	White hake	USA-NMFS-5YZ
## 1379	Windowpane flounder	USA-NMFS-5YZ
## 1380	Windowpane flounder	USA-NMFS-SNEMATL
## 1381	Winter flounder	Canada-DF0-4T
## 1382	Winter flounder	USA-NMFS-5Z
## 1383	Winter flounder	USA-NMFS-5Y
## 1384	Winter flounder	USA-NMFS-SNEMATL
## 1385	Witch flounder	Canada-DF0-2J3KL
## 1386	Witch flounder	Canada-DF0-3Ps
## 1387	Witch flounder	Canada-DF0-4RST
## 1388	Witch flounder	USA-NMFS-5Y
## 1406	Winter skate	USA-NMFS-5YCHATT
## 1408	Waved whelk	Canada-DF0-QCW
## 1410	Yellowtail flounder	multinational-NAFO-3LNO
## 1411	Yellowtail flounder	Canada-DF0-4T
## 1412	Yellowtail flounder	USA-NMFS-CCOD5Y
## 1413	Yellowtail flounder	USA-NMFS-GB
## 1414	Yellowtail flounder	USA-NMFS-SNEMATL
##		stocklong
## 1		Acadian redfish NAFO Division 2J3K
## 2		Acadian redfish NAFO Division 3LNO and Units 1 and 2
## 3		Acadian redfish Gulf of Maine / Georges Bank
## 4		Acadian redfish Unit 3
## 15		American plaice Labrador - NE Newfoundland
## 16		American plaice Grand Banks
## 17		American plaice Flemish Cap
## 18		American plaice St. Pierre Bank
## 19		American plaice Southern Gulf of St. Lawrence
## 20		American plaice Scotian Shelf and Bay of Fundy
## 21		American plaice Gulf of Maine / Georges Bank



## 51 Arctic surfclam Quebec and Gulf of St. Lawrence  
 ## 52 Arctic surfclam Banquereau  
 ## 53 Arctic surfclam Division 3LNO  
 ## 54 Arctic surfclam Quebec Coastal Waters  
 ## 69 Atlantic halibut Scotian Shelf and Southern Grand Banks  
 ## 70 Atlantic halibut Gulf of St. Lawrence  
 ## 71 Atlantic halibut Gulf of Maine / Georges Bank  
 ## 74 Atlantic croaker Mid-Atlantic Coast  
 ## 78 Atlantic wolffish Gulf of Maine / Georges Bank  
 ## 79 Blue crab Chesapeake Bay  
 ## 122 Bluefish Atlantic Coast  
 ## 147 Black sea bass Mid-Atlantic Coast  
 ## 150 Barndoor skate Gulf of Maine / Georges Bank-Southern New England  
 ## 151 Barndoor skate Canadian Atlantic Ocean  
 ## 159 Atlantic butterflyfish Gulf of Maine / Cape Hatteras  
 ## 170 Capelin Southern Labrador-Eastern Newfoundland  
 ## 171 Capelin Gulf of St. Lawrence  
 ## 199 Atlantic cod NAFO 1ABCDE  
 ## 201 Atlantic cod NAFO Subarea 1 (inshore)  
 ## 202 Atlantic cod Southern Labrador-Eastern Newfoundland  
 ## 203 Atlantic cod Flemish Cap  
 ## 204 Atlantic cod Southern Grand Banks  
 ## 205 Atlantic cod Northern Gulf of St. Lawrence  
 ## 206 Atlantic cod St. Pierre Bank  
 ## 207 Atlantic cod Southern Gulf of St. Lawrence  
 ## 208 Atlantic cod Eastern Scotian Shelf  
 ## 209 Atlantic cod Western Scotian Shelf  
 ## 210 Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine  
 ## 211 Atlantic cod NAFO 5Zjm  
 ## 216 Atlantic cod Georges Bank  
 ## 217 Atlantic cod Gulf of Maine  
 ## 342 Clearence skate Mid-Atlantic Coast  
 ## 344 Cusk Western Scotian Shelf  
 ## 398 Greenland halibut NAFO divisions 01ABCDEF  
 ## 399 Greenland halibut Labrador Shelf - Grand Banks  
 ## 400 Greenland halibut Gulf of St. Lawrence  
 ## 435 Green sea urchin Gulf of St. Lawrence  
 ## 436 Haddock Grand Banks  
 ## 437 Haddock St. Pierre Bank  
 ## 438 Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine  
 ## 439 Haddock Gulf of Maine  
 ## 441 Haddock Georges Bank  
 ## 469 Herring NAFO division 4R (Fall spawners)  
 ## 470 Herring NAFO division 4R (Spring spawners)  
 ## 471 Herring Quebec North Shore  
 ## 472 Herring Quebec North Shore (Fall spawners)  
 ## 473 Herring Quebec North Shore (Spring spawners)  
 ## 474 Herring Southern Gulf of St. Lawrence (Fall spawners)  
 ## 475 Herring Southern Gulf of St. Lawrence (Spring spawners)  
 ## 476 Herring Scotian Shelf and Bay of Fundy  
 ## 480 Herring Newfoundland East and South Coast  
 ## 484 Herring Northwestern Atlantic Coast  
 ## 505 Northern shortfin squid Northwestern Atlantic Coast  
 ## 545 American lobster Georges Bank

## 546 American lobster Gulf of Maine  
 ## 547 American lobster Quebec North Shore and Anticosti Island (LFA 15-18)  
 ## 548 American lobster Gaspe (LFA 19-21)  
 ## 549 American lobster Magdalen Islands (LFA 22)  
 ## 550 American lobster Southern Gulf of St. Lawrence  
 ## 551 American lobster Atlantic Coast of Nova Scotia (LFA 27-33)  
 ## 552 American lobster Lobster Fishing Areas 3-14  
 ## 553 American lobster Lobster Fishing Area 34  
 ## 554 American lobster Lobster Fishing Areas 35-38  
 ## 555 American lobster Lobster Fishing Area 41  
 ## 556 American lobster Southern New England  
 ## 561 Little skate Gulf of Maine / Cape Hatteras  
 ## 564 Lumpfish Northern Gulf of St. Lawrence  
 ## 565 Atlantic mackerel Gulf of Maine / Cape Hatteras  
 ## 567 Mackerel Northwest Atlantic (NAFO Subareas 3 and 4)  
 ## 573 Atlantic menhaden Atlantic  
 ## 575 Monkfish Labrador Shelf-Grand Banks-St. Pierre Bank  
 ## 576 Monkfish NAFO Divisions 3LNOPs  
 ## 577 Monkfish Gulf of Maine / Northern Georges Bank  
 ## 578 Monkfish Southern Georges Bank / Mid-Atlantic  
 ## 649 Ocean pout Northwestern Atlantic Coast  
 ## 667 Northern shrimp NAFO Divisions 2G-3K  
 ## 668 Northern shrimp Gulf of St. Lawrence  
 ## 669 Northern shrimp Gulf of Maine  
 ## 674 Northern shrimp Eastern Scotian Shelf (SFA 13-15)  
 ## 675 Northern shrimp Shrimp Fishing Areas 2-3  
 ## 676 Northern shrimp Shrimp Fishing Area 4  
 ## 677 Northern shrimp Shrimp Fishing Area 5  
 ## 678 Northern shrimp Shrimp Fishing Area 6  
 ## 731 Pollock St. Pierre Bank  
 ## 732 Pollock Scotian Shelf and Bay of Fundy  
 ## 733 Pollock Scotian Shelf, Bay of Fundy and Georges Bank  
 ## 734 Pollock Gulf of Maine / Georges Bank  
 ## 741 Porbeagle shark Canadian Atlantic Ocean  
 ## 924 Ocean quahog Atlantic Coast  
 ## 932 Red deepsea crab Northwestern Atlantic  
 ## 937 Deepwater redfish NAFO Divisions 2J3K-3LNO  
 ## 941 Deepwater redfish Units 1 and 2  
 ## 945 Redfish species West Greenland  
 ## 946 Redfish species Labrador - NE Newfoundland  
 ## 947 Redfish species N and SW Grand Banks  
 ## 948 Redfish species Flemish Cap  
 ## 949 Redfish species Gulf of St. Lawrence and Cabot Strait  
 ## 950 Redfish species Unit 1  
 ## 951 Redfish species Unit 2  
 ## 959 Red hake Gulf of Maine / Northern Georges Bank  
 ## 960 Red hake Southern Georges Bank / Mid-Atlantic  
 ## 984 Rock crab Southern Gulf of St. Lawrence  
 ## 985 Rock crab Quebec Coastal Waters  
 ## 1009 Rosette skate Mid-Atlantic Coast  
 ## 1060 Sea scallop St. Pierre Bank  
 ## 1061 Sea scallop Southern Gulf of St. Lawrence  
 ## 1062 Sea scallop Georges Bank and Mid-Atlantic Bight  
 ## 1063 Sea scallop Georges Bank

## 1064	Sea scallop North Brown Bank
## 1065	Sea scallop Scallop Fishing Areas 16-20
## 1066	Sea scallop Bay of Fundy (SPA 1-6)
## 1067	Sea scallop West Scallop Fishing Area 29
## 1068	Scalloped hammerhead Atlantic
## 1072	Scup Northwestern Atlantic Coast
## 1073	Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank
## 1074	Spiny dogfish Atlantic Coast
## 1087	Summer flounder Mid-Atlantic Coast
## 1091	Silver hake Scotian Shelf and Bay of Fundy
## 1092	Silver hake Gulf of Maine / Georges Bank
## 1093	Silver hake Southern Georges Bank / Mid-Atlantic
## 1104	Smooth dogfish Atlantic
## 1110	Smooth skate NAFO Division 2J3K
## 1111	Smooth skate Southern Gulf of St. Lawrence
## 1123	Snow crab Division 2HJ
## 1124	Snow crab Division 2HJ3KLNOP4R
## 1125	Snow crab Division 2J
## 1126	Snow crab Division 3K
## 1127	Snow crab Division 3LNO
## 1128	Snow crab Division 3NO
## 1129	Snow crab St. Pierre Bank
## 1130	Snow crab Division 4R3Pn
## 1136	Snow crab Northern Gulf of St. Lawrence
## 1137	Snow crab Southern Gulf of St. Lawrence
## 1292	Softshell clam Quebec Coastal Waters
## 1295	Smooth skate Gulf of Maine / Georges Bank-Southern New England
## 1312	Striped bass Gulf of Maine / Cape Hatteras
## 1316	Aesop shrimp Shrimp Fishing Areas 2-3
## 1319	Atlantic surfclam Mid-Atlantic Coast
## 1343	Tilefish Mid-Atlantic Coast
## 1348	Thorny skate Grand Bank and St Pierre Bank
## 1349	Thorny skate Southern Gulf of St. Lawrence
## 1350	Thorny skate Gulf of Maine / Georges Bank-Southern New England
## 1364	Weakfish Atlantic Coast
## 1365	White hake Grand Bank and St. Pierre Bank
## 1366	White hake St. Pierre Bank
## 1367	White hake Northern Gulf of St. Lawrence
## 1368	White hake Southern Gulf of St. Lawrence
## 1369	White hake Scotian Shelf, Bay of Fundy and Georges Bank
## 1370	White hake Gulf of Maine / Georges Bank
## 1379	Windowpane flounder Gulf of Maine / Georges Bank
## 1380	Windowpane flounder Southern New England /Mid Atlantic
## 1381	Winter flounder Southern Gulf of St. Lawrence
## 1382	Winter flounder Georges Bank
## 1383	Winter flounder Gulf of Maine
## 1384	Winter flounder Southern New England /Mid Atlantic
## 1385	Witch flounder Southern Labrador-Eastern Newfoundland
## 1386	Witch flounder St. Pierre Bank
## 1387	Witch flounder Gulf of St. Lawrence
## 1388	Witch flounder Gulf of Maine
## 1406	Winter skate Gulf of Maine / Cape Hatteras
## 1408	Waved whelk Quebec Coastal Waters
## 1410	Yellowtail flounder Grand Banks

## 1411			Yellowtail flounder Southern Gulf of St. Lawrence		
## 1412			Yellowtail flounder Cape Cod / Gulf of Maine		
## 1413			Yellowtail flounder Georges Bank		
## 1414			Yellowtail flounder Southern New England /Mid Atlantic		
##		region	primary_country	primary_FA0area	IS03_code
## 1	Canada	East Coast	Canada	21	CAN
## 2	Canada	East Coast	Canada	21	CAN
## 3	US	East Coast	USA	21	USA
## 4	Canada	East Coast	Canada	21	CAN
## 15	Canada	East Coast	Canada	21	CAN
## 16	Canada	East Coast	Canada	21	CAN
## 17	Canada	East Coast	Spain	21	ESP
## 18	Canada	East Coast	Canada	21	CAN
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## 20	Canada	East Coast	Canada	21	CAN
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## 199	Canada	East Coast	Greenland	21	GRL
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## 204	Canada	East Coast	Canada	21	CAN
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## 945	Canada East Coast	Greenland	21	GRL
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## 1067	Canada East Coast	Canada	21	CAN
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## 1073	Canada East Coast	Canada	21	CAN
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## 17	3f7a35e5-4a9f-370c-98b8-9c093a078912	1	AMPL3M	Current	
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## 21	f6342402-b5fb-3457-9b49-c0a018f2ce72	1	AMPL5YZ	Current	
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## 79	b1f30d06-3a1a-38d6-bb99-302769b0e959	0		Current	
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## 151		0	<NA>	Current	
## 159	061d9bdf-5b69-325c-b486-e904ab4de7ca	1	BUTTER56	Current	
## 170		0	<NA>	Current	
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## 199		0	<NA>	Current	
## 201	16dfb08d-d970-33f6-b495-f78ef0a0b79c	0	<NA>	Current	
## 202	c9055c35-a306-3a63-83b5-525d9f484840	1	COD2J3KL	Current	
## 203	ad76fd62-8f75-33d0-82cd-380f9c9f2533	1	COD3M	Current	
## 204	f8bd5149-f25b-3377-850a-0de697a9bfb9	1	COD3NO	Current	

## 205	5a19ce3d-ecba-3ee1-9f81-c766b3d18d52	1	COD3Pn4RS	Current
## 206	44bdf775-5ab2-36dc-9781-1c5d774d92bd	1	COD3Ps	Current
## 207	f0b7a32d-ba51-3028-941d-e18008450d12	1	COD4TVn	Current
## 208	4e12fcb9-141a-3eef-af10-23f19f4e4f11	1	COD4VsW	Current
## 209	0464895b-495c-3aac-a1e7-95ccd4dc4766	1	COD4X	Deprecated
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## 216	71c5f2e5-beaf-3b36-afc7-baf16f0080b7	1	COD5Z	Current
## 217	0fab3985-c6c0-3851-a1c0-12945c1c18aa	0	<NA>	Current
## 342	92872a3c-6292-3c6d-b2e6-e7b43a13ab23	0		Current
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## 505	901efde3-889b-3c7a-ac27-441663b28ee2	0	<NA>	Current
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## 546	d8ba0af8-9f30-3dd2-9bed-edef23ce4802	0		Current
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## 675	6f772623-7ed3-37c5-b8fd-820cd4f3b807	0	<NA>	Current
## 676	4abc1595-5d3d-35e5-a71e-4c1518587865	0	<NA>	Current
## 677	1972e4a1-3796-356f-b4f8-d8f5de26ec31	0	<NA>	Current
## 678	26873791-f497-3b7e-959e-8e1e392f676b	0	<NA>	Current
## 731		0	<NA>	Current
## 732	d84fb571-8fd6-309e-a5da-5d7d95c77a43	0	<NA>	Current
## 733	6e163131-caed-3452-ae04-58d3f2c2767a	1	POLL4VWX5	Deprecated
## 734	e475fd3c-e342-3e1f-9171-cedabe8022b3	0	<NA>	Current
## 741		0	<NA>	Current
## 924	2a636ae3-b8f8-3b6f-ac92-0abe6bfa3993	0	<NA>	Current
## 932	2dad2b45-26a0-3727-9f3b-2b3e13912bdd	0	<NA>	Current
## 937		0	<NA>	Deprecated
## 941		0	<NA>	Deprecated
## 945		0	<NA>	Deprecated
## 946	b138cd4b-4bb4-3f34-8ec2-abc6e5790f09	0	<NA>	Deprecated
## 947	28a5d24c-cf5a-36b9-8a84-cda1fd3f16e8	0	<NA>	Current
## 948	587d5f12-9357-31f2-80cb-c2ec84232c5c	1	RED3M	Current
## 949		0	<NA>	Deprecated
## 950		0	<NA>	Current
## 951		0	<NA>	Current
## 959		0	<NA>	Current
## 960		0	<NA>	Current
## 984	8d7442ef-cadf-35ee-9cf3-eaa008abc5bc	0	<NA>	Current
## 985	08dfd7fc-e61d-3a12-b910-b2ccd07ff5c4	0	<NA>	Current
## 1009	001e7089-f89d-3e4b-9e20-3fac7bcf48b7	0		Current
## 1060		0	<NA>	Current
## 1061		0	<NA>	Current
## 1062		0	<NA>	Current
## 1063		0		Current
## 1064		0	<NA>	Current
## 1065		0	<NA>	Current
## 1066	0e8f4a69-32db-3d77-a1b6-65967adccf2a	0	<NA>	Current
## 1067		0	<NA>	Current
## 1068		0	<NA>	Current
## 1072	944d5133-9217-368b-aea3-fb5dc8312b20	1	SCUP	Current
## 1073		0	<NA>	Current
## 1074		1	SDOGNWATL	Current
## 1087	ad5d13f4-f035-3def-9a80-c551bb6b7a61	1	SFLOUNDMAB	Current
## 1091		0	<NA>	Current
## 1092	3f7ed3b7-a1c4-332d-bbfb-39b118b48dbe	0	<NA>	Current
## 1093		1	SHAKEMAB	Current
## 1104	457445fc-f0b6-3a61-9da7-b98f96f07729	0	<NA>	Current
## 1110	8f55a65c-2426-3b7a-9609-f238dd899c64	0	<NA>	Current
## 1111		0	<NA>	Current
## 1123	e9c01341-7d65-3214-a98e-daa59ef2ccdf	0	<NA>	Current
## 1124	915cfb52-8f5e-3886-a40c-424ba2c98dba	0		Deprecated
## 1125	6a597323-cfc2-30a0-97fb-117b1d867d8a	0		Deprecated
## 1126	974019bd-99ea-3667-8bab-54c9f77b2f5f	0		Current
## 1127	58c35001-8f73-3336-94e0-de9edd434550	0	<NA>	Current
## 1128	d3eb58eb-1ce2-3c7c-9ef4-e58be754dde9	0		Deprecated
## 1129	0cddf03e-4e04-3f54-83bd-648eace2ca3b	0		Current

## 1130	b5bec544-5af1-31d7-b308-f397dd7a4674	0	<NA>	Current
## 1136	8f181ece-a831-3ad7-aae8-8069c4d09371	0	<NA>	Current
## 1137	891fee13-b266-36c8-a417-3df3239d0c43	0		Current
## 1292	e8e9d8d7-f629-371f-a733-a9aca82dfdb7	0	<NA>	Current
## 1295	6b7dbc44-0775-3525-9206-e53eb576d0fc	0		Current
## 1312	bbf6db34-f352-3aa5-b16f-deb3fa8d49b3	1	STRIPEDBASSUSA	Current
## 1316		0	<NA>	Current
## 1319	e67062b8-8721-3eac-8cd0-28e21931ad1e	0	<NA>	Current
## 1343	1a87eddf-086d-3b97-9cc4-423a89585cd9	0	<NA>	Current
## 1348	3ce1db75-ac65-3ea2-8a94-83d5357bb153	0	<NA>	Current
## 1349	79ac07e5-b316-3c63-9fe2-dcdd7af2faff	0	<NA>	Current
## 1350	8e5a5a0b-f9a3-3e35-ace2-e24ba36ae6ec	0		Current
## 1364	746e4c53-a53c-31a2-8068-e5c11237116e	0		Current
## 1365	439bf0f6-9e0e-33c9-8539-0436d70e7fb2	0	<NA>	Deprecated
## 1366		0	<NA>	Current
## 1367	c6a00535-4858-3ca0-acb5-c4cf44ea7ac8	0	<NA>	Current
## 1368		0	<NA>	Current
## 1369		0	<NA>	Current
## 1370	91f92b72-76e7-3156-9fc9-89fbdc5a3f2	0	<NA>	Current
## 1379		0	<NA>	Current
## 1380	51e3748d-0159-3444-a89b-b25b52bc0cb4	0	<NA>	Current
## 1381	d869b971-5ead-3102-abd8-387fdb0614aa	0	<NA>	Current
## 1382	07c7732c-43a7-3909-a776-fbd5b0d57612	0	<NA>	Current
## 1383		0	<NA>	Current
## 1384	1e9389b4-5ab1-3a8e-addd-88cb292a6718	0	<NA>	Current
## 1385		0	<NA>	Current
## 1386		0	<NA>	Current
## 1387		0	<NA>	Current
## 1388	51bbbe8b-e797-3e38-bae8-a486de82741d	0	<NA>	Current
## 1406		0		Current
## 1408	a3489390-ffa3-3e31-9770-30694b6f2e70	0	<NA>	Current
## 1410	a34d9d47-58ff-3451-9147-e13604e6cb32	1	YELL3LNO	Current
## 1411		0	<NA>	Current
## 1412		0	<NA>	Current
## 1413	d38776b9-e02d-376a-a753-792ad1108db9	1	YELL5Z	Current
## 1414	33943aae-ee58-3256-b707-b5066359addc	1	YELLSNE	Current