**Fishing Year 2020**

**Binning Rules**

**Highlighted – not implemented for FY20**

**Assumptions:**

* Binning will occur in the order of the rules defined below.
* These criteria will be applied to sub-trips when a vessel fishes with more than 1 type of gear on a trip.
* These criteria should bin the majority of catch. However, we expect there will be remaining catch assigned to the other sub-component. Remaining trips likely targeted multiple species, and will be difficult to identify as a directed trip in one fishery.
* Exclude swordfish and tuna when calculating highest revenue by species. (at least partially implemented)
* All trips with reported stat areas that are south of Cape Hatteras should be binned and excluded from the other sub-component analysis.

1. **Groundfish Declared Trips**

Activity code is NMS

**Then** trip = **GROUNDFISH**

**OR**

Activity code **is** MNK

Permit **is** MNK-C **or** MNK-D **or** MNK-F **or** MNK-G **or** MNK-H

**AND** permit **is** MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F

**AND** Mult – A-DAS balance **is** > 0 (in AMS)

**AND** Gear Type **is** OTF, gillnet, or hook

**Then** trip = **GROUNDFISH**

Activity code **is** MNK

**AND** program\_code in (NAS, NAC, SAS, SAC, NOC, SOC, NOS, SOS)

**AND** permit **is** MNK-C **or** MNK-D **or** MNK-F **or** MNK-G **or** MNK-H

**AND** permit **is** MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F

**AND** Mult – A-DAS balance **is** <= 0 (in AMS)

**AND** Gear Type **is** OTF, gillnet, or hook

**AND** groundfish landed > 0

**Then** trip = **OTHER2** – trip should be investigated

1. **Non-Groundfish with VMS Declaration**

Activity code is SES

**Then** trip = **SCALLOP**

Activity code is HER

**Then** trip = **HERRING**

Activity code **is** MNK

Permit is MNK-A **or** MNK-B **or** MNK-F **or** MNK-G **or** MNK-H

**AND** Gear Type **is** OTF or gillnet

**Then** trip = **MONKFISH**

**--Should this rule be updated?**

Activity code **is** MNK

Permit **is** MNK-C **or** MNK-D **or** MNK-F **or** MNK-G **or** MNK-H

**AND** permit **is** MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F

**AND** Mult – A-DAS Alloc – Qty **is** < Monk – Open Alloc - Qty

**AND** Mult – A-DAS balance **is** ≤ 0 (in AMS)

**AND** Gear Type is OTF or gillnet

**Then** trip = **MONKFISH**

Activity code **is** MNK

Permit **is** MNK-C **or** MNK-D **or** MNK-F **or** MNK-G **or** MNK-H

**AND** permit **is** SES-A **or** SES-B **or** SES-C **or** SES-2 **or** SES-3 **or** SES-4 **or** SES-5 **or** SES-5 **or** SES-6 **or** SES-7 **or** SES-8 **or** SES-9

**AND** Gear Type is OTF or gillnet

**Then** trip = **MONKFISH**

*Note red crab declarations were no longer required as of ?2014?*

Activity code **is** RCB

Permit **is** RCB-B **or** RCB-C

**AND** Gear Type **is** PTC

**Then** trip = **REDCRAB**

Activity code **is** SCO

Permit **is** SF/QQ-1 **or** SF/QQ-6 **or** SF/QQ-7

Gear Type **is** DRC

**Then** trip = **SURF CLAM**

Activity code **is** TIL

Permit **is** TLF-1

**AND** Gear Type **is** LLB **or** OTF

**Then** trip = **TILEFISH**

*Added 5/8/18*

Activity code is in SMB-MAC, SMB-MAS, SMB-MAH, SMB-MHS

**Then** trip = **MACKEREL**

*Added 5/8/18*

Activity code is in SMB-SQL, SMB-SLM, SMB-SLH, SMB-LHM, SMB-SQI, SMB-SIM,

SMB-SIH, SMB-IHM, SMB-SQC, SMB-SCH, SMB-SCM, SMB-SHM

SMB-SQH, SMB-SQM

**Then** trip = **SQUID**

*Added 4/??/16:*

*Updated 8/30/18, include LLB gear*

1. **Multispecies Handgear B Trips**

Activity code **is** DOF **or** there is no activity code

Permit **is** MUL-HB

**AND** Gear Type is HND or LLB

AND groundfish landings are >5 percent of the total trip landings

**Then** trip = **GROUNDFISH**

*Added 4/??/16:*

1. **Misdeclared DOF Trips**

Activity code **is** DOF

Permit **is** MUL-A

**If** groundfish landings are <5 percent of the total trip landings

**Then** trip = **DOF TRIP**

Activity code **is** DOF

Permit **is** MUL-A (is this right Michael—I think this was only a problem with the mul-a guys)

**If** groundfish landings are >5 percent of the total trip landings

**Then** trip = **MIS-DECLARED GROUNDFISH TRIP ‘OTHER2’**

**\*\*These trips should be investigated and attributed to the common pool sub-ACL or sector ACE.**

1. **Multispecies Party/Charter Trips**

Permit **is** MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F **or** MUL-K [**is not** HA, HB, I, or J]

**AND trip type is party or charter**

**AND number of anglers >0**

**AND** Gear Type **is HND**

**Then trip = ‘PCHARTER’**

**All recreational trips**

Trip Type **is** private recreational use of a commercial vessel (tripcatg = 6)

**Then** trip = **‘RECREATIONAL’**

*Added 5/818. Are there any exceptions to these?*

1. **Carrier VTRs**

Carrier VTRs will be matched to DOF and dealer records, and all trips with carrier VTRs will be binned as “**CARRIER**”

1. **Non-Groundfish without VMS Declaration (or DOF declaration)**

Permit **is** SF/QQ-1 **or** SF/QQ-6 **or** SF/QQ-7

Gear Type **is** DRC

**Then** trip = **SURF CLAM**

Gear Type **is** OTF (‘OT?’) – all trawls starting with “OT”

AND landings of Shrimp (PANDALID) are highest revenue by species

**Then** trip = **SHRIMP**

Gear Type **is** PTL

**AND** landings of lobster **and**/**or** Jonah crab **and/or** rock crab are highest revenue by species

**Then** trip = **LOBSTER/CRAB**

Permit **is** LO [A1, A2, A23, A3, A4, A5, A6, AOC]

**AND** Gear Type **is not** GNS or OTF (‘OT?’) – neither gillnet nor trawl gears

**AND** landings of lobster **and**/**or** Jonah crab **and/or** rock crab are highest revenue by species

**Then** trip = **LOBSTER/CRAB**

Gear Type **is** PTW or PTC

**AND** landings of whelk **and**/**or** conch are highest revenue by species

**Then** trip = **WHELK/CONCH**

Gear Type **is** PTH

**AND** landings of hagfish are highest revenue by species

**Then** trip = **HAGFISH**

--added 5/1/19

Gear Type **is** PTC

**AND** landings of red crab are the highest revenue by species

**Then** trip = **REDCRAB**

Gear Type **is** PUR **or** OTF **or** OTB

**AND** menhaden is highest revenue by species

**Then** trip = **MENHADEN**

Permit **is** FLS-1

**AND** Gear Type **is** OTF

**AND** mesh size **≥ 5.5**”

**AND** summer flounder highest revenue by species

**Then** trip = **FLUKE**

Permit **is** SCP-1

**AND** Gear Type **is** OTF

**AND** mesh size **≥** 5”

**AND** scup is highest revenue by species **or** scup is ≥ 50% of total landings

**Then** trip = **SCUP**

Permit **is** SMB-1; SMB-5

**AND** permit **is not** MUL-A, MUL-C, MUL-D, MUL-E, MUL-F, MUL-K

**AND** Gear Type **is** OTF

**AND** mesh size **≥** 1 7/8”

**AND** squid (*Illex* or *Loligo*) is highest revenue by species

**Then** trip = **SQUID**

Permit **is** MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F **or** MUL-K [**is not** HA, HB, I, or J]

**AND** no SMB-1 or SMB-5 permit

**AND** Gear Type **is** OTF

**AND** mesh size is ≥ 2 but ≤ 3”

**AND** whiting is highest revenue

**Then** trip = **WHITING**

(For future reference: there should be NO regulated groundfish landings on these trips. If we do find landings, these should probably be forwarded to QA/QC and/or OLE)

Permit **is** SMB-1 or SMB-5

**AND** permit is MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F **or** MUL-K [**is not** HA, HB, I, or J]

**AND** Gear Type **is** OTF

**AND** mesh size **≥** 1 7/8”

AND combined revenue of squid (*Illex* and *Loligo*) and whiting is highest by species

**Then** trip = **SQUID/WHITING**

(For future reference: there should be NO regulated groundfish landings on these trips. If we do find landings, these should probably be forwarded to QA/QC and/or OLE)

**OR**

Permit **is** SMB-1 or SMB-5

**AND** permit is MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F **or** MUL-K [**is not** HA, HB, I, or J]

**AND** Gear Type **is** OTF

**AND** mesh size **≥** 1 7/8”

**AND** no hake landed

**AND** squid is highest revenue by species

**Then** trip = **SQUID**

**OR**

Permit **is** MUL-A **or** MUL-C **or** MUL-D **or** MUL-E **or** MUL-F **or** MUL-K [**is not** HA, HB, I, or J]

Permit **is** SMB-1; SMB-5

**AND** Gear Type **is** OTF

**AND** mesh size is ≥ 2 but ≤ 3”

**AND** no squid landed

**AND** hake is highest revenue by species

Then trip = **WHITING**

Permit is SMB-5

AND Gear Type is OTF

AND Illex squid is the highest revenue by species OR Illex squid is ≥50% of total landings

THEN trip = Illex squid

Permit is BSB-1

AND Gear Type is OTF AND mesh size ≥ 5”

OR Gear Type is “Pots and Traps, Black Sea Bass”

AND black sea bass is highest revenue by species OR black sea bass is ≥ 50% of total landings

Then trip = Black Sea Bass

*Added 8/30/18*

Activity code **is** DOF **or** there is no activity code

AND Permit **is** MUL-HB

**AND** Gear Type not in (‘HND’,’LLB’)

AND groundfish landings are >5 percent of the total trip landings

**Then** trip = **OTHER2**

**\*\* add NAFO \*\***

Chart area ≤ 450 = NAFO trip

Trips that do not fall into any of the above groups AND have statistical area >= 700 are categorized as ‘**OUTSIDE**’. dcaless, 11/28/17

Trips that do not fall into any of the above groups are categorized as ‘**UNCATEGORIZED**’.

Added 5/30/17:

Bin from above processing is **‘ UNCATEGORIZED**’

**AND** no federal permits

**Then** trip = ‘**STATE’**

**OR**

Bin from above processing is **‘ UNCATEGORIZED**’

**AND** Activity code **is** DOF **or** there is no activity code

**AND** groundfish is >= 5% of landings (live weight)

**AND** no federal groundfish permits --dcaless, 12/4/17

Other than a category I permit --dcaless, 2/8/18. An I permit does not preclude a vessel

--from selling commercial state groundfish

**Then** trip = ‘**STATE’**

**\*add NAFO declaration rule\***

*(documentation added 11/20/20. Rule has been in place for longer)*

Overriding the above:

**If** Permit **is** NFO\_1

**AND** Area **<=** 450

**Then** trip = ‘**NAFO’**

Overwriting all of the above:

**If** Activity code **is** DOF **or** there is no activity code

**AND** first four characters of dealer VTR serial number is ‘8888’

**Then** trip = **‘RESEARCH’** dcaless, 11/30/17

**DMIS Kept Processing on Dealer Code Exceptions**

Code 1 – Seized for Violations – TBD

Code 2 – Bait – Landings included in BHC fields. Live weight = landed weight? Imputed revenue TBD

Code 3 – NA?

Code 4 – Retained for future sale - TBD

Code 5 – Sold to a non-Federal dealer (non-Federally regulated species only) - TBD

Code 6 – Sub legal catch landed for research – Landings included in BHC fields. Live weight = landed weight. It is imputing revenue – should it?

Code 7 – Legal catch landed for research (EFP trips only) – Landings included in BHC fields. Live weight = landed weight. It is imputing revenue – should it?

Code 8 – Landed, unmarketable catch (LUMF) – Landings included in BHC fields. Live weight = landed weight? Imputed revenue TBD

Code 99998 – Used for home consumption – Landings included in BHC fields. Groundfish (others?) assumed filleted – live weight = three times landed weight if the fishery\_group <> ‘PCHARTER’. If the fishery\_group = ‘PCHARTER’ the live weight = landed weight. Imputed revenue TBD

**VTR Trip Category Rules** (added 7/24/20)

 --Type of trip: 1=Commercial; 2=Party; 3=Charter; 4=RSA or EFP  
    --cat 6 new rec trip categories (should be all 6) added after confirming these reports are commercial only. This is private recreational use of a commercial fishing vessel. 6 is recorded as fish counts, same and 2 and 3.    
    --cat 5 - 5 may be a new research category

**Business Rule Change Log**

Change 4/24/19, implemented fishdisp code = 090 for fish accidentally discarded by the observer on observed trips.

Where any of the fish has a fishdisp code of 090, the entire haul will be excluded from the discard rate calculation

Hauls with a 090 code will still be included in trip discard and so will count as individual trip discard.

This is based on the 090 code in obdbs.obfishdisp@nova.

Applies to FY18 and going forward

Change 4/25/19 implemented new nespp3 code = 270 for undersized pollock. The stock\_id was previously ‘OTHER’, now ‘POKGMASS’ when in the groundfish stock.

This is based on the 270 code in cfdbs.cfspp@sole.

Applies to all years

Change 5/2/19 added new red crab binning rule. An old red crab binning rule based on activity code continues to be applied

Applies to all years

Change 5/2/19 fully implemented recent nespp3 code = 154 for white hake. Previously had not been fully implemented resulting in some cases where white hake was being assigned to stock\_id = ‘OTHER’ instead of ‘HKWGMMA’ and so not being counted in the white hake groundfish landings.

Applies to all years

Change 5/9/19 the default area for trips without any area information is set to the statistical area adjacent to the trip port. The area source = “IMP” when this happens, so it does not differentiate from imputed trips based on past trips. Previously these were set to area 616. This applies when there is no area provided by VTR, AMS, VMS catch reports, or past trip imputations using matching VTR-dealer records.

Applies to all years

Change 5/9/19 implemented new nespp3 codes = 119 for undersized winter flounder and 148 for undersized haddock. The stock\_id was previously ‘OTHER’, now has the appropriate groundfish stock\_id when in the groundfish stock.

This is based on the 119 and 148 codes in cfdbs.cfspp@sole.

Applies to all years

Change 6/20/19 add a criterion to a LOBSTER/CRAB binning rule. For the rule that says if a vessel has a federal lobster permit and lobster and/or crab are the highest revenue species landed (not otherwise assigned based on declaration), add an additional criteria that the trip cannot be a gillnet or trawl trip (secgearfish in (GNS,’OTF’,’OTT’,’OHS’,’OTR’) ).

Applies to all years

This issue has arisen with STATE trips. A vessel with federal lobster permits and no federal mults permits landed groundfish and lobster on gillnet trips. When the lobster was worth more than the groundfish it was binned to LOBSTER/CRAB. He had a VMS requirement and it showed that these trips were in state waters and so should be binned to STATE. This criterion moved these trips from being binned as LOBSTER/CRAB to STATE.

Change 10/28/19 updated valid activity codes. Activity codes are set to Null if the 1st three characters (the “Plan Code”) are not in ('DOF','MNK','HER','SES','NMS','RCB','SCO','TIL','MID','SMB',’HMS’). ‘HMS’ was added on 10/28/19. Applies to all years.

Change 7/8/20 set all assumed discard rates for allocated stocks on trips in the EM3 EFP program equal to zero. Applies to FY20 forward.

Change 11/18/20, for other sub-component discard estimation, state trips should be excluded from the observed trip selection. State trips are identified if they are binned as STATE in DMIS after observed trips are matched to DMIS. Applies to all years.

Change TBD, SMB permit categories 1, 2, and 3 should be binned as category 1 above…

Effective for FY20, any observed trip where no hauls are observed is not included in either the discard rate calculations or actual trip discards. The trips are not included in observed trips used for discard calculations. Applies to FY20 going forward. I am not sure if this applied prior to FY20. 12/22/20

Change 12/23/20, added strata: MREM medium mesh (MM) strata for other\_strata = ‘EFP\_EM3’. For haddock separator and Rhule trawl (secgearfish in (‘OHS’,’OTR’) ) for regular MREM EFP for stocks in inner and outer GB. Also added for bottom otter trawl (OTF) for an addition to the MREM EFP for stocks in GOM, IGB and GB starting in Jan 2021.