

Appendix A. Completed stock assessments of FSSI stocks for Fiscal Year 2023.
Information is the best available at the time of reporting, and is subject to change.
URLs link to Stock SMART assessment records.

Completed Assessments for FSSI Stocks - FY 2023 Quarter 1 (October - December, 2022)

Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
AFSC	NPFMC	Red king crab - Bristol Bay	5	Operational Stock Assessment	Yes	
AFSC	NPFMC	Snow crab - Bering Sea	5	Operational Stock Assessment	Yes	
AFSC	NPFMC	Southern Tanner crab - Bering Sea	5	Operational Stock Assessment	Yes	
AFSC	NPFMC	Alaska plaice - Bering Sea / Aleutian Islands	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Atka mackerel - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Alaska skate - Bering Sea / Aleutian Islands	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Flathead sole - Bering Sea / Aleutian Islands	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Northern rock sole - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Greenland halibut - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Kamchatka flounder - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Northern rockfish - Bering Sea / Aleutian Islands	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Pacific cod - Aleutian Islands	2	Operational Stock Assessment	No	
AFSC	NPFMC	Pacific cod - Bering Sea	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Pacific ocean perch - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Walleye pollock - Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Walleye pollock - Bogoslof	2	Operational Stock Assessment	No	
AFSC	NPFMC	Walleye pollock - Eastern Bering Sea	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Yellowfin sole - Bering Sea / Aleutian Islands	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Sablefish - Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Arrowtooth flounder - Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Dusky rockfish - Gulf of Alaska	6	Operational Stock Assessment	Yes	

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Completed Assessments for FSSI Stocks - FY 2023 Quarter 1 (October - December, 2022)						
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
AFSC	NPFMC	Flathead sole - Gulf of Alaska	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Gulf of Alaska Blackspotted and Rougheye Rockfish Complex	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Yelloweye rockfish - Gulf of Alaska	2	Operational Stock Assessment	No	
AFSC	NPFMC	Northern rock sole - Central Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Northern rock sole - Western Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Rock sole - Central Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Rock sole - Western Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Shortspine thornyhead - Gulf of Alaska	2	Operational Stock Assessment	No	
AFSC	NPFMC	Northern rockfish - Western / Central Gulf of Alaska	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Pacific cod - Gulf of Alaska	6	Operational Stock Assessment	Yes	
AFSC	NPFMC	Pacific ocean perch - Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Rex sole - Eastern Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Rex sole - Western / Central Gulf of Alaska	6	Stock Monitoring Update	Yes	
AFSC	NPFMC	Walleye pollock - Western / Central / West Yakutat Gulf of Alaska	6	Operational Stock Assessment	Yes	
NEFSC	MAFMC	Bluefish - Atlantic Coast	-	Research Stock Assessment	-	
NEFSC	MAFMC / NEFMC	Spiny dogfish - Atlantic Coast	-	Research Stock Assessment	-	
SEFSC	CFMC	Caribbean spiny lobster - Puerto Rico	6	Stock Monitoring Update	Yes	
SEFSC	CFMC	Caribbean spiny lobster - St. Croix	6	Stock Monitoring Update	Yes	
SEFSC	CFMC	Caribbean spiny lobster - St. Thomas / St. John	6	Stock Monitoring Update	Yes	
Completed Assessments for FSSI Stocks - FY 2023 Quarter 2 (January - March, 2023)						
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
AFSC	NPFMC	Red king crab - Norton Sound	5	Operational Stock Assessment	Yes	

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Completed Assessments for FSSI Stocks - FY 2023 Quarter 2 (January - March, 2023)

Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
PIFSC	WPFMC	American Samoa Bottomfish Multi-species Complex	3	Operational Stock Assessment	Yes	This stock assessment reported early in error, research stock assessment completed for complex
NWFSC / SWFSC	PFMC	Chinook salmon - California Central Valley: Sacramento River Fall	3	Operational Stock Assessment	Yes	
NWFSC / SWFSC	PFMC	Chinook salmon - Northern California Coast: Klamath River Fall	4	Operational Stock Assessment	Yes	
SEFSC	GMFMC	Gray snapper - Gulf of Mexico	6	Operational Stock Assessment	Yes	

Completed Assessments for FSSI Stocks - FY 2023 Quarter 3 (April - June, 2023)

Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
AFSC	NPFMC	Golden king crab - Eastern Aleutian Islands	5	Operational Stock Assessment	Yes	
AFSC	NPFMC	Golden king crab - Western Aleutian Islands	5	Operational Stock Assessment	Yes	
NEFSC	MAFMC	Bluefish - Atlantic Coast	6	Operational Stock Assessment	Yes	
NEFSC	MAFMC	Longfin inshore squid - Georges Bank / Cape Hatteras	2	Operational Stock Assessment	Yes	
NEFSC	MAFMC	Scup - Atlantic Coast	6	Operational Stock Assessment	Yes	
NEFSC	MAFMC	Summer flounder - Mid-Atlantic Coast	6	Operational Stock Assessment	Yes	
PIFSC	WPFMC	American Samoa Bottomfish Multi-species Complex	-	Research Stock Assessment	-	Originally entered in Q2, research assessment completed for complex
PIFSC	WPFMC	Longtail red snapper and Ruby snapper Complex - American Samoa	6	Operational Stock Assessment	Yes	New FSSI stock complex broken out from Bottomfish Complex
SWFSC	PFMC	Pacific chub mackerel - Pacific Coast	6	Operational Stock Assessment	Yes	

Completed Assessments for FSSI Stocks - FY 2023 Quarter 4 (July - September, 2023)

Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
NEFSC	MAFMC	Atlantic mackerel - Gulf of Maine / Cape Hatteras	6	Operational Stock Assessment	Yes	Initially reported in Q3 in error
NEFSC	MAFMC / NEFMC	Spiny dogfish - Atlantic Coast	6	Operational Stock Assessment	Yes	Not on initial schedule
NEFSC	NEFMC	Acadian redfish - Gulf of Maine / Georges Bank	6	Operational Stock Assessment	Yes	

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Completed Assessments for FSSI Stocks - FY 2023 Quarter 4 (July - September, 2023)						
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Adequate?	Notes
NEFSC	NEFMC	Atlantic cod - Georges Bank	-	Research Stock Assessment	-	Not on initial schedule, operational stock assessment delayed to FY24
NEFSC	NEFMC	Atlantic cod - Gulf of Maine	-	Research Stock Assessment	-	Not on initial schedule, operational stock assessment delayed to FY24
NEFSC	NEFMC	Little skate - Georges Bank / Southern New England	2	Operational Stock Assessment	No	
NEFSC	NEFMC	Red hake - Southern Georges Bank / Mid-Atlantic	2	Operational Stock Assessment	No	
NEFSC	NEFMC	Silver hake - Gulf of Maine / Northern Georges Bank	2	Operational Stock Assessment	No	
NEFSC	NEFMC	Silver hake - Southern Georges Bank / Mid-Atlantic	2	Operational Stock Assessment	No	
NEFSC	NEFMC	Winter skate - Georges Bank / Southern New England	2	Operational Stock Assessment	No	
NWFSC / SWFSC	PFMC	Black rockfish - California	6	Operational Stock Assessment	Yes	
NWFSC / SWFSC	PFMC	Black rockfish - Oregon	6	Operational Stock Assessment	Yes	
NWFSC / SWFSC	PFMC	Canary rockfish - Pacific Coast	6	Research & Operational	Yes	Initially planned only as an operational
NWFSC / SWFSC	PFMC	Petrale sole - Pacific Coast	6	Research & Operational	Yes	Initially planned only as an operational
NWFSC / SWFSC	PFMC	Rex sole - Pacific Coast	5	Research & Operational	Yes	
NWFSC / SWFSC	PFMC	Shortspine thornyhead - Pacific Coast	5	Research & Operational	Yes	
NWFSC / SWFSC	PFMC	Widow rockfish - Pacific Coast	6	Stock Monitoring Update	Yes	Initially planned as operational
NWFSC / SWFSC	PFMC	Yelloweye rockfish - Pacific Coast	6	Stock Monitoring Update	Yes	Originally listed as Yellowtail rockfish
SEFSC	GMFMC	Gag - Gulf of Mexico	6	Stock Monitoring Update	Yes	Not on initial schedule
SEFSC	GMFMC	Lane snapper - Gulf of Mexico	6	Stock Monitoring Update	Yes	Not on initial schedule
SEFSC	GMFMC	Vermilion snapper - Gulf of Mexico	6	Stock Monitoring Update	Yes	Not on initial schedule
SEFSC	SAFMC	Scamp - Southern Atlantic Coast	6	Operational Stock Assessment	Yes	Fist-time operational stock assessment
SEFSC	SAFMC / GMFMC	Spanish mackerel - Gulf of Mexico	6	Operational Stock Assessment	Yes	
SEFSC	SAMFC / GMFMC	Spanish mackerel - Southern Atlantic Coast	6	Operational Stock Assessment	Yes	

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Footnotes

1 NOAA Fisheries Science Centers include Alaska Fisheries Science Center (AFSC), Northeast Fisheries Science Center (NEFSC), Northwest Fisheries Science Center (NWFSC), Pacific Islands Fisheries Science Center (PIFSC), Southeast Fisheries Science Center (SEFSC) and Southwest Fisheries Science Center (SWFSC). In some cases, assessments are conducted by multiple science centers (e.g. NW/SW and SW/PI).

2 Jurisdictions include Caribbean Fishery Management Council (CFMC), Gulf of Mexico Fishery Management Council (GMFMC), Atlantic Highly Migratory Species Division (HMS), Mid-Atlantic Fishery Management Council (MAFMC), New England Fishery Management Council (NEFMC), North Pacific Fishery Management Council (NPFMC), Pacific Fishery Management Council (PFMC), South Atlantic Fishery Management Council (SAFMC) and Western Pacific Fishery Management Council (WPFMC).

3 FSSI refers to federally managed stocks and stock complexes included on the Fish Stock Sustainability Index. Non-FSSI refers to federally managed stocks and stock complexes not included on the Fish Stock Sustainability Index. INT refers to international stocks.

4 Assessment Model Category: Category of stock assessment model accepted for use in management, as described in the 2018 Next Generation Stock Assessment Improvement Plan document.

1 = Data-Limited (e.g. DBSRA, DCAC, Surplus Production MSY, Egg-Escapement, Mean Length Estimation)

2 = Index-Based (e.g. AIM, basic linear models and time series analyses)

3 = Aggregate Biomass Dynamics (e.g. Schaefer or Pella-Tomlinson Production Models, ASPIC, delay-difference models)

4 = Virtual Population Update (e.g. ADAPT, VPA-2BOX)

5 = Statistical Catch-at-Length (e.g. SCALE, SS, MultifanCL)

6 = Statistical Catch-at-Age (e.g. SS, ASAP, AMAK, BAM, MultifanCL, CASAL)

5 The National Stock Assessment Program tracks and classifies its activities related to the provision of harvest recommendations based upon guidance established in the 2018 Next Generation Stock Assessment Improvement Plan document.

Research Stock Assessment - Efforts that develop or revise a stock assessment data type or method that are reviewed through the regional assessment review process. These efforts do not produce management advice, though they are occasionally paired with operational stock assessments.

Operational Stock Assessment - Analyses that utilize one or more of the categories of stock assessment models described in the "Model Class" field (Footnote 4). Within the range of Operational Stock Assessments will be first time applications of previously researched methods ("new" or "benchmark" assessments); applications with updated data streams and minor revisions to methods within the scope of previously researched themes; and applications that simply update the model with the most recent data.

Stock Monitoring Update - Activities labeled "Stock Monitoring Analyses" generally include activities that provide stock-level advice to fishery managers between stock assessments. These analyses include the methods described in the "Model Class" field (Footnote 4), but only when they are updated using the most recent catch information to develop new catch advice. These are sometimes called partial updates. Because there are no changes in the methods or data series in stock monitoring updates, just updated catch data, the conduct and review of these analyses does not warrant intense scrutiny.

* Changes in the assessment schedule are indicated by bold, red font.