

Scott Raborn

From: Scott Raborn
Sent: Monday, July 3, 2023 10:59 PM
To: Jordan Head
Cc: Michael Link
Subject: PMTF Stock Comp. Estimate #9—samples from July 2, 2023
Attachments: PM genetics inseason 7.2.2023.pdf; CE_ByYearDayDistrict.pdf

Everyone,

Attached is the 9th stock composition estimate from ADF&G and the BBSRI At-Sea Genetics Program for the 2023 Port Moller Test Fishery. Also attached is a figure showing these results weighted by the magnitude of the indices they represent along with catch plus escapement (C+E) for 2023 (Figure 1) and C+E by district and date for 2011-2022 (Figure 2).

Stock Composition (Stations 4-18 from July 2):

Reporting Group	Stock	90%	
	Composition Estimate	Lower	Upper
North Peninsula	5.6%	1.5%	10.6%
Ugashik	14.6%	2.8%	24.0%
Egegik	17.4%	8.7%	29.0%
Naknek	10.4%	5.5%	16.2%
Alagnak	8.7%	3.0%	15.1%
Kvichak	17.1%	10.9%	23.9%
Nushagak	1.1%	0.0%	4.9%
Wood	18.8%	10.8%	26.3%
Igushik	3.4%	0.0%	11.1%
Togiak	0.5%	0.0%	2.2%
Kuskokwim	2.4%	0.0%	6.3%

Scott, Jordan, and Michael

Figure 1. The 2023 Port Moller Daily Catch Index (averaged from Stations 2-22) parsed by district based on genetic stock composition estimates (colored stacked area curves scaled to the left vertical axis). Observed C+E (colored stacked columns) is also parsed by district and scaled to the right vertical axis. Colors are the same for both times series of data (stacked curves and columns).

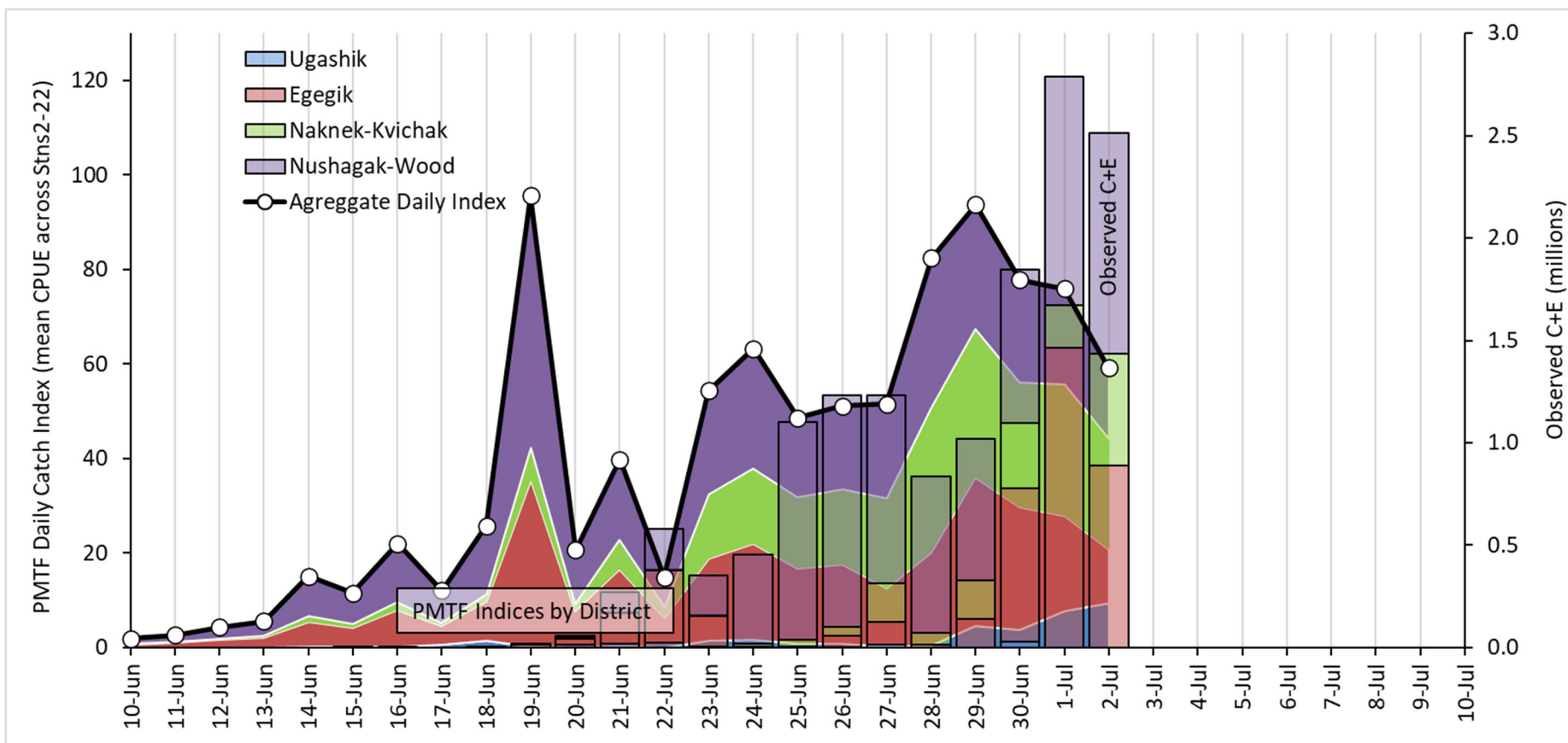
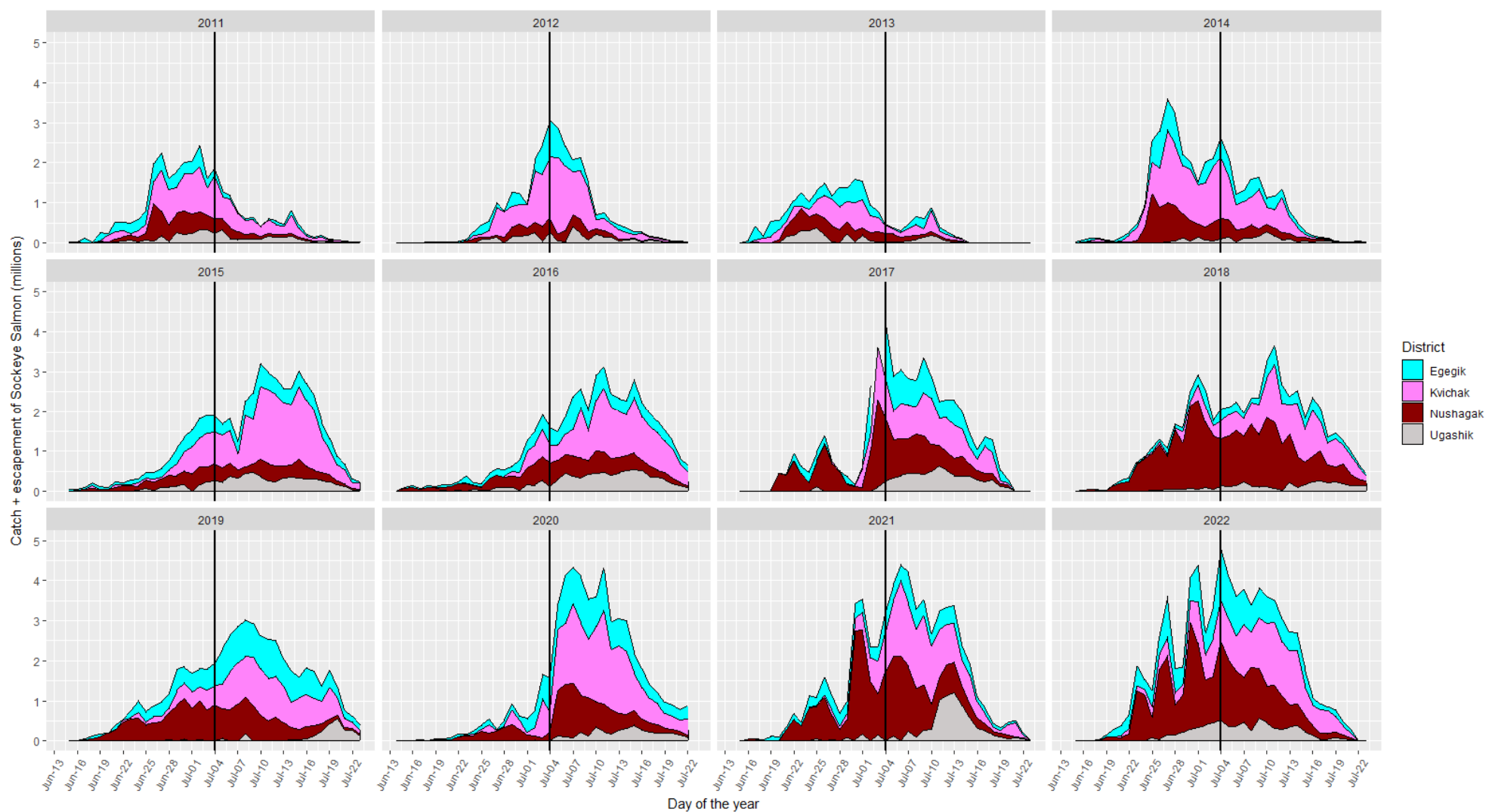


Figure 2. Catch plus escapement by district for 2011-2022. The black vertical line specifies July 4 in each year to facilitate comparisons.



Bristol Bay Sockeye Salmon Fishery

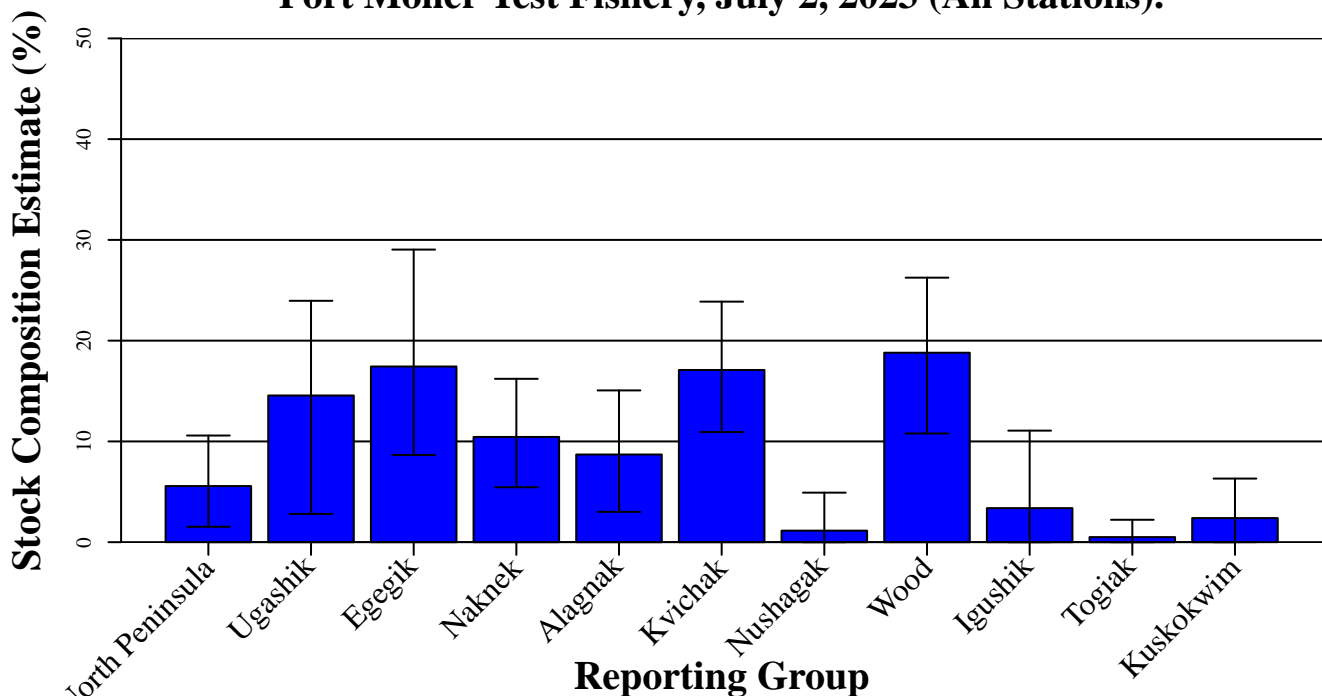
Port Moller Sockeye Salmon Stock Composition Summary

July 2, 2023 – All Stations

Genetic stock composition estimates for sockeye salmon from the Port Moller Test Fishery for July 2, 2023. A total of 284 fish were sampled and 190 were analyzed (188 had adequate data to include in the analysis).

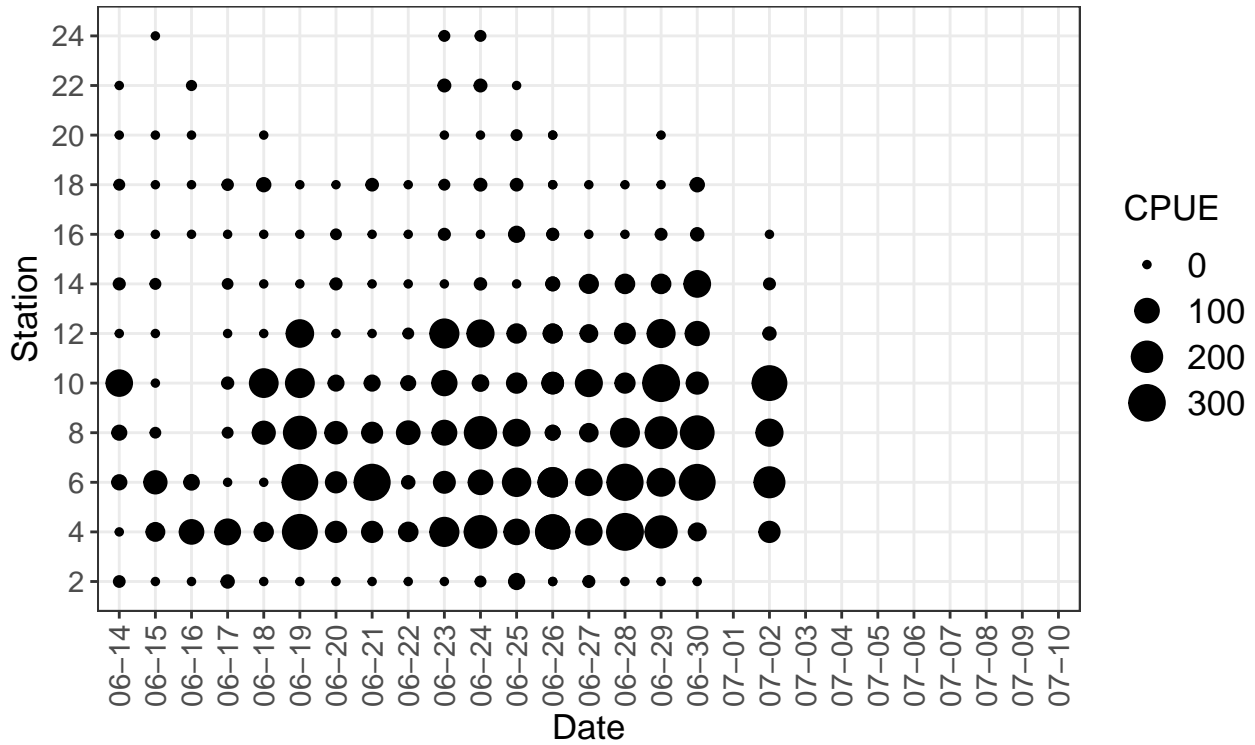
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Genetic Stock Composition Estimates for Sockeye Salmon Captured in the Port Moller Test Fishery, July 2, 2023 (All Stations).

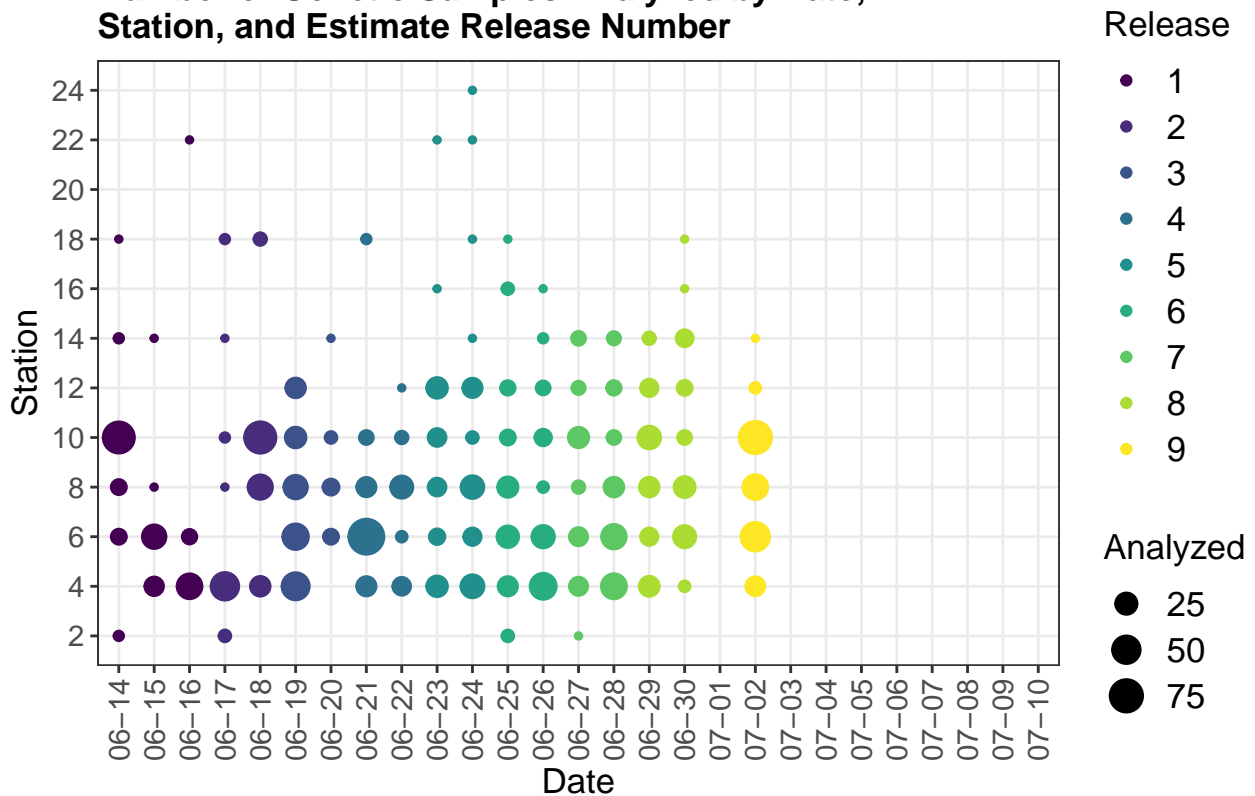


The genetic analysis was completed by the Alaska Department of Fish and Game, Division of Commercial Fisheries, Gene Conservation Laboratory.

Port Moller Test Fishery 2023 Catch Per Unit of Effort by Date and Station

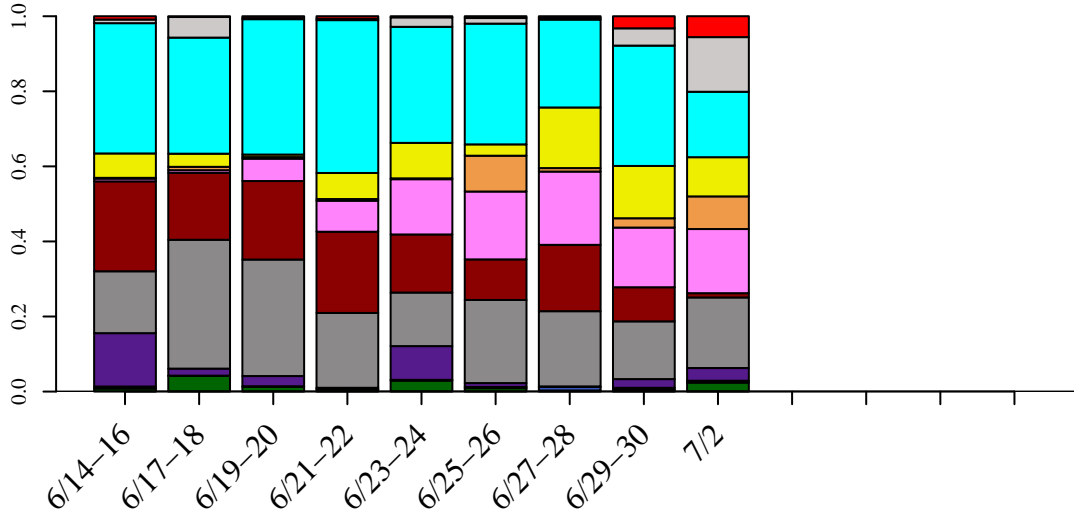


Number of Genetic Samples Analyzed by Date, Station, and Estimate Release Number

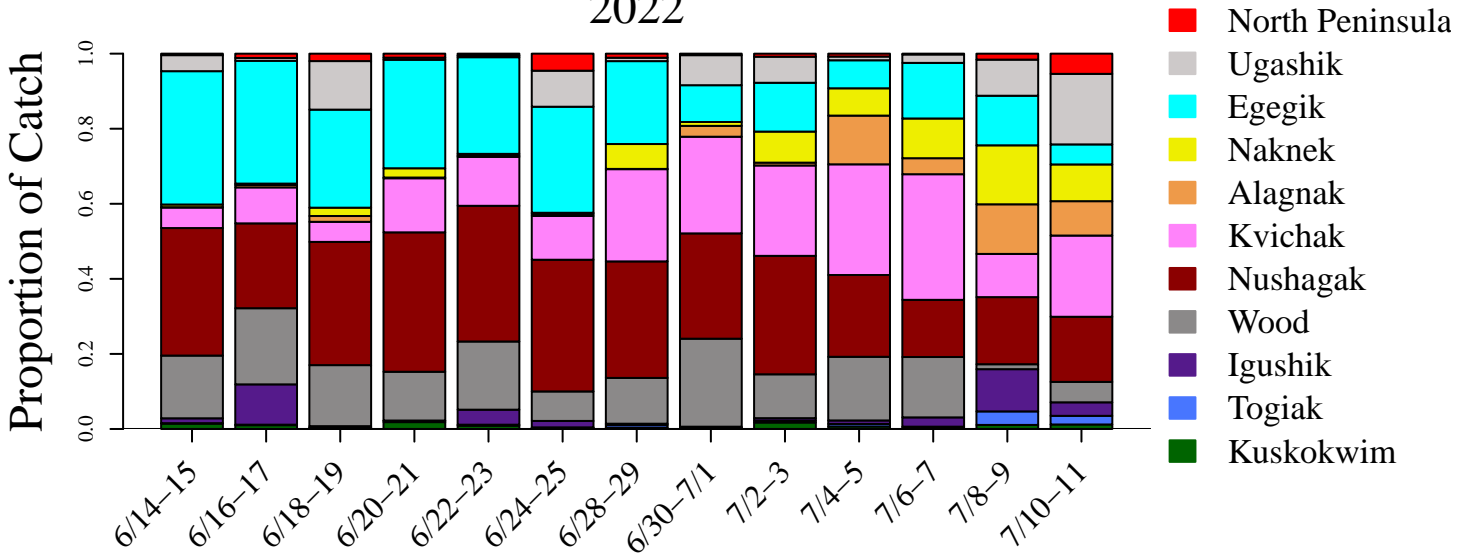


Historical Comparison of Stock Composition Estimates

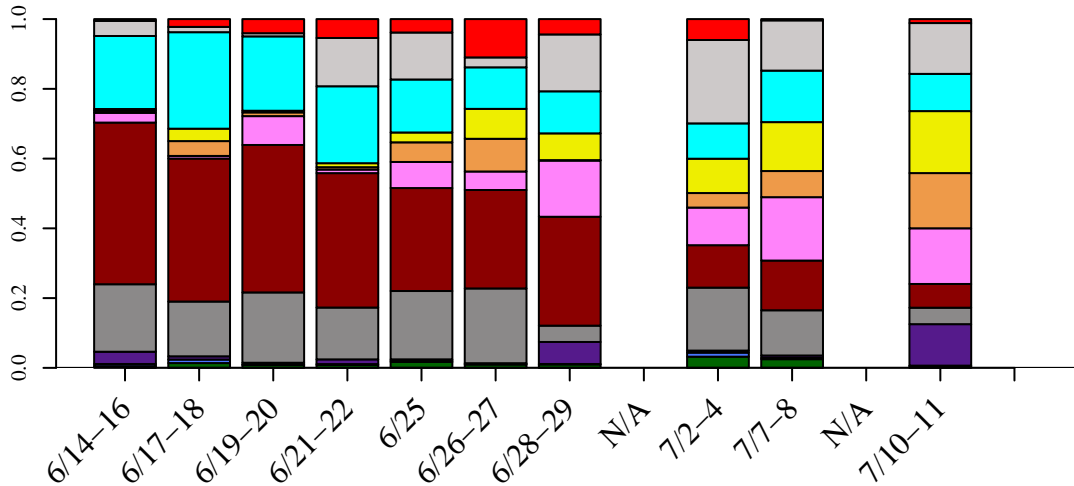
2023



2022



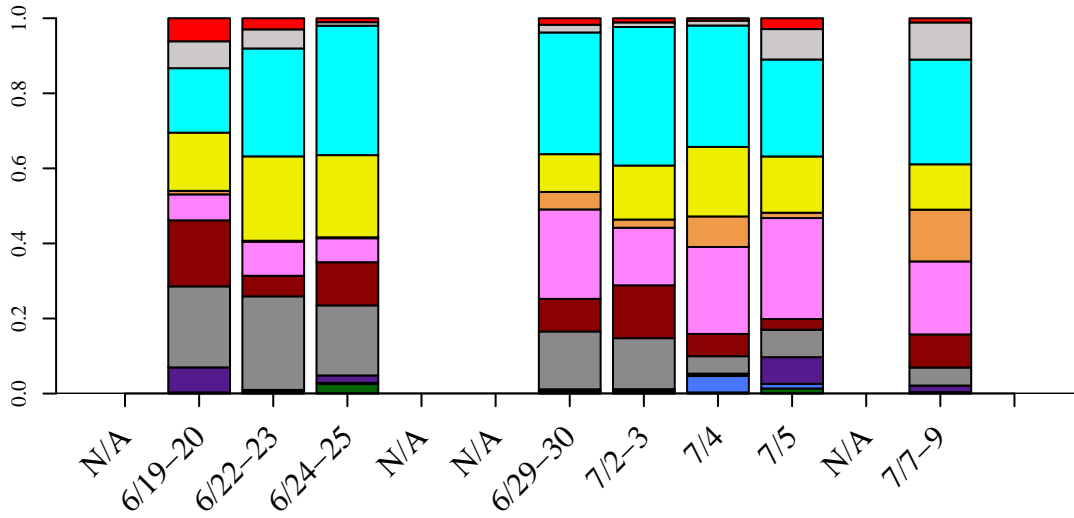
2021



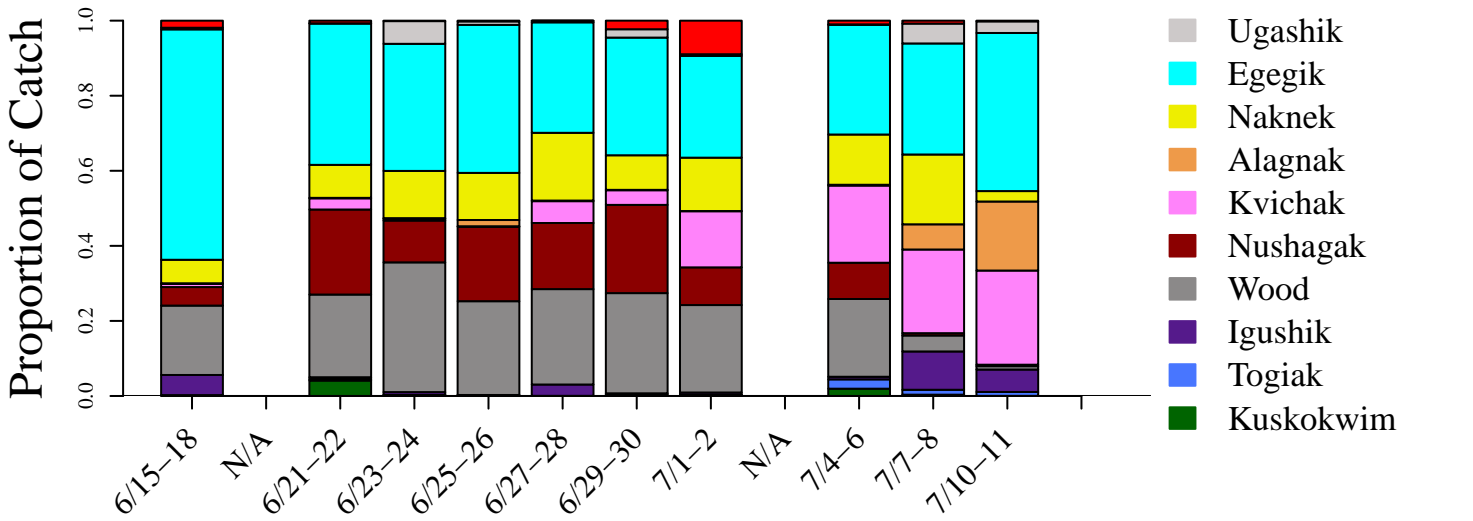
Date

Historical Comparison of Stock Composition Estimates

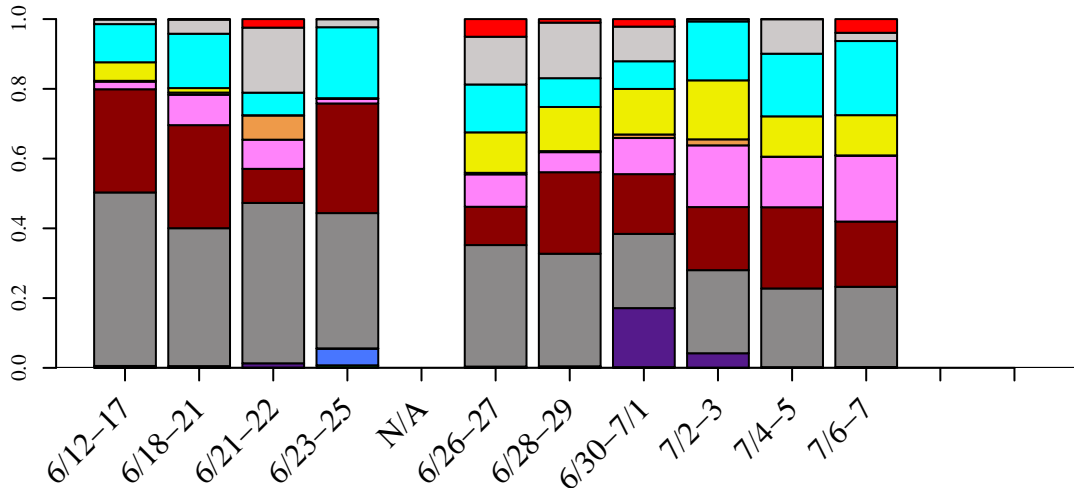
2020



2019



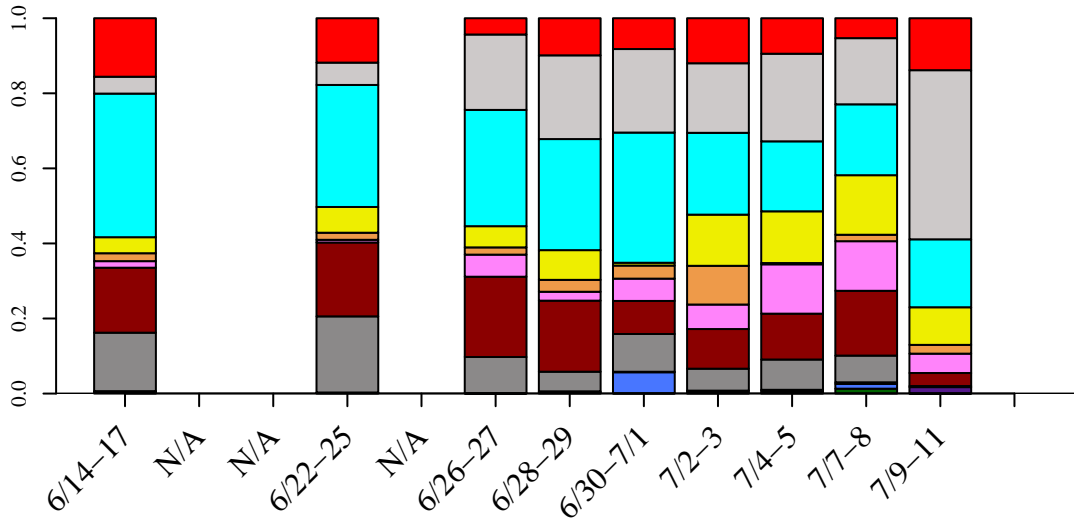
2018



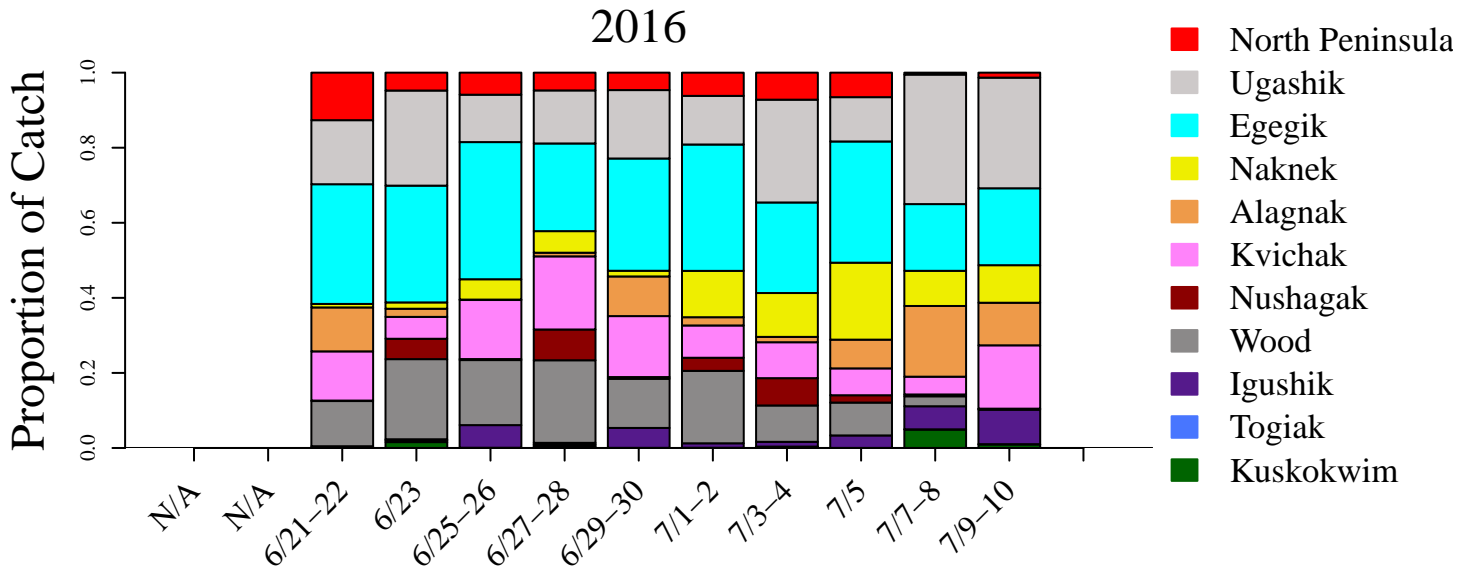
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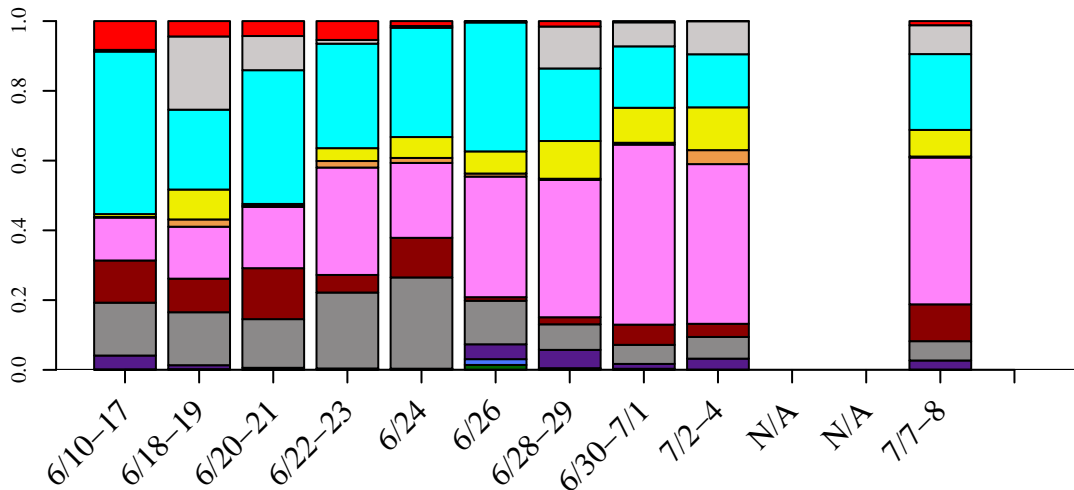
2017



2016



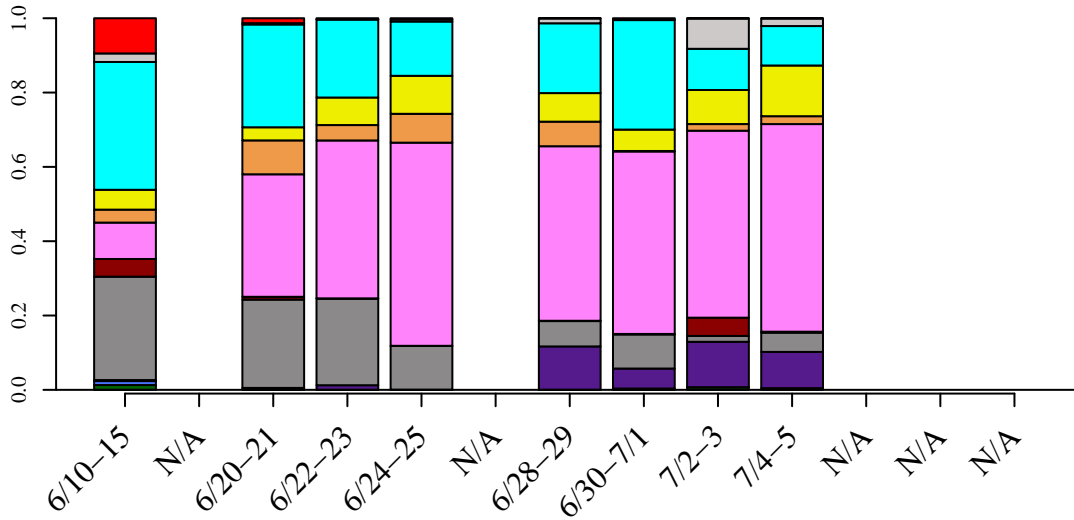
2015



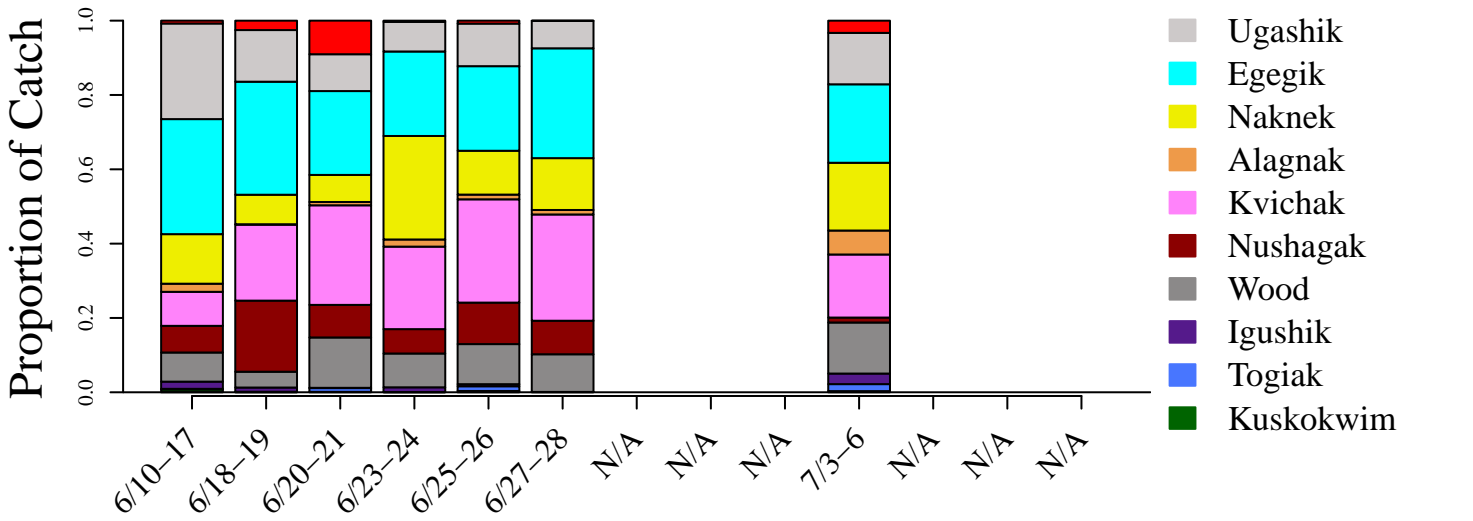
Date

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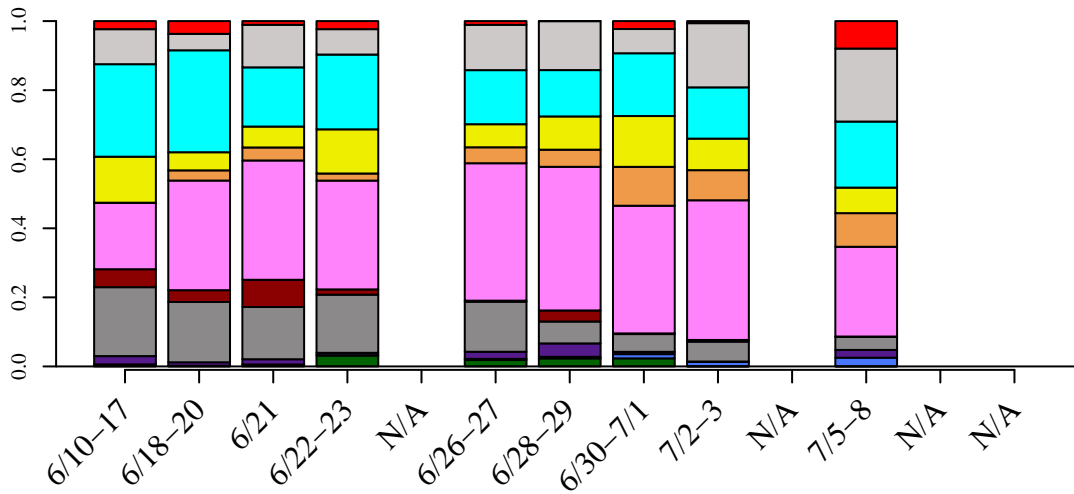
2014



2013



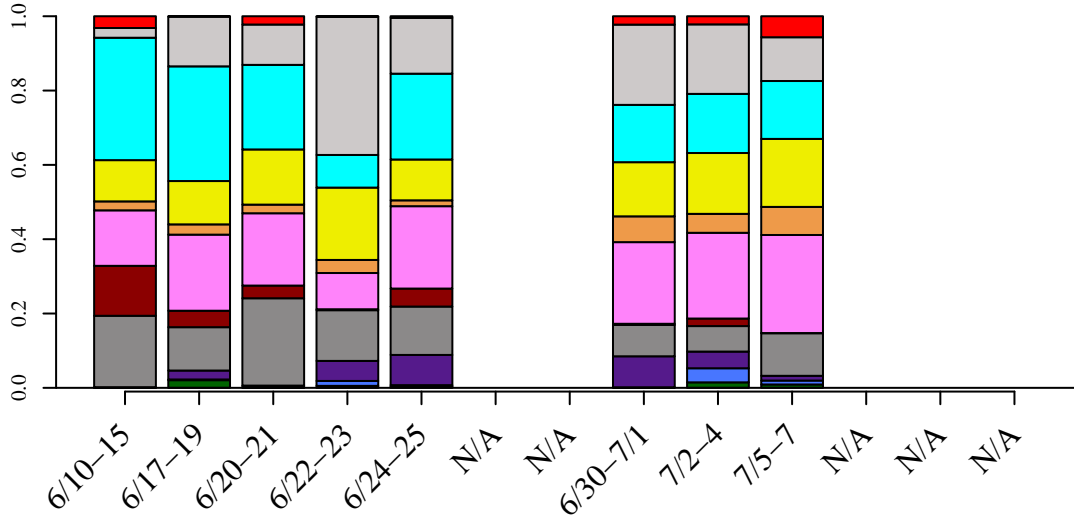
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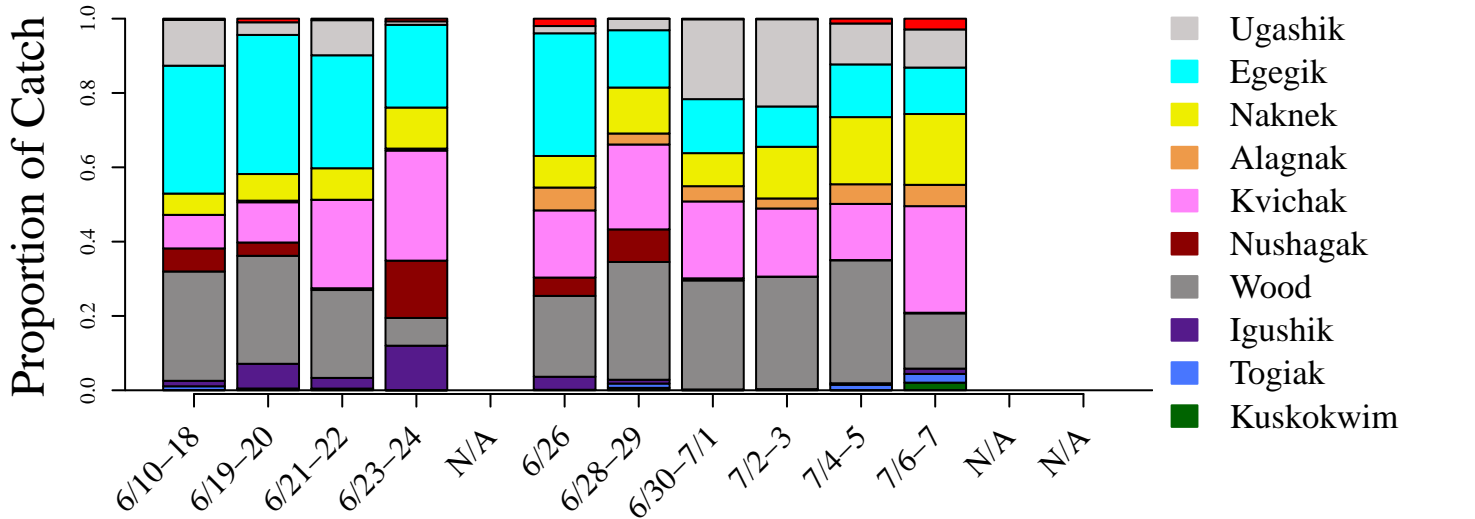
Date

Historical Comparison of Stock Composition Estimates

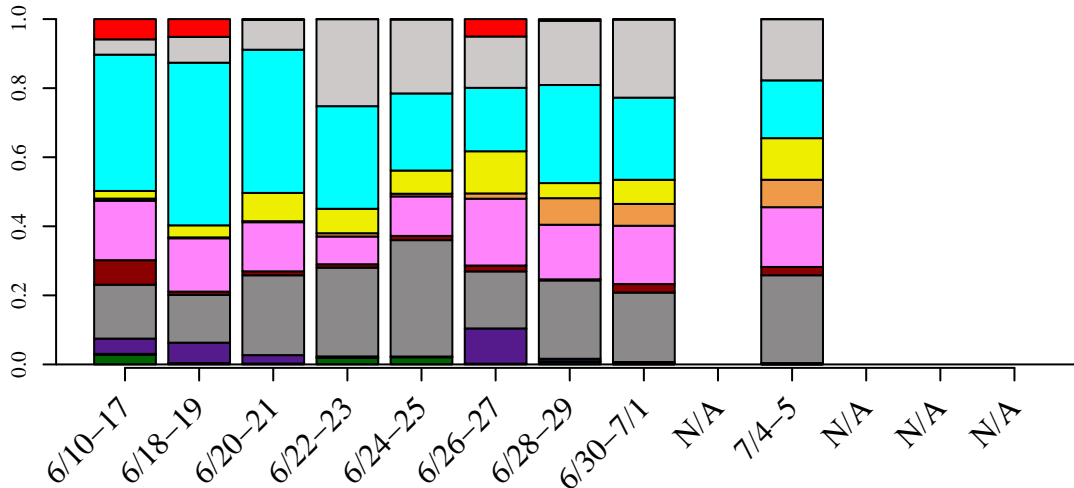
2011



2010



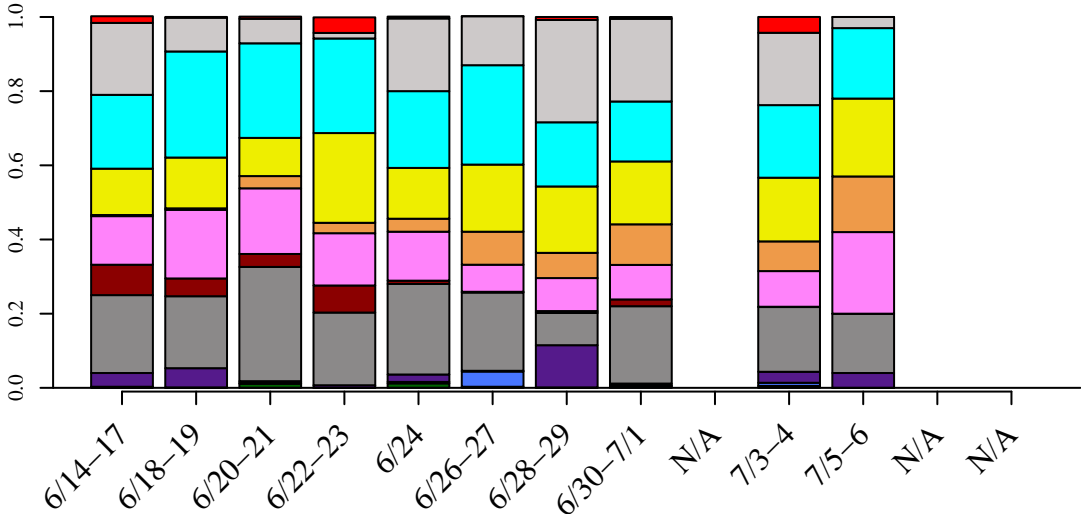
2009



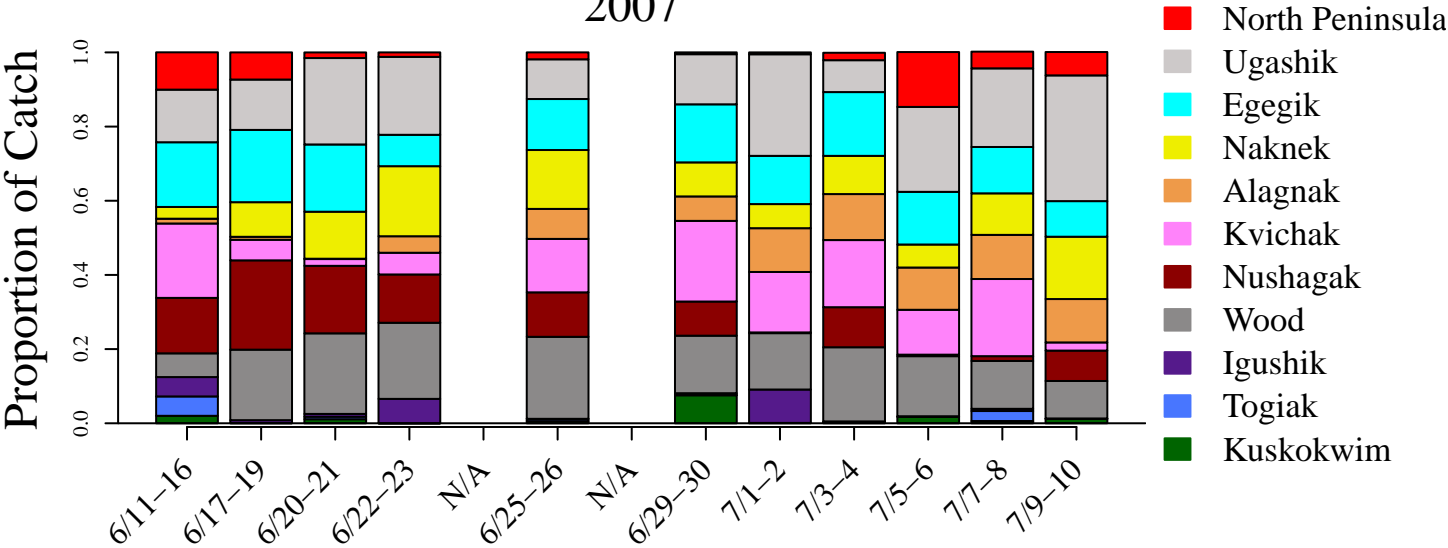
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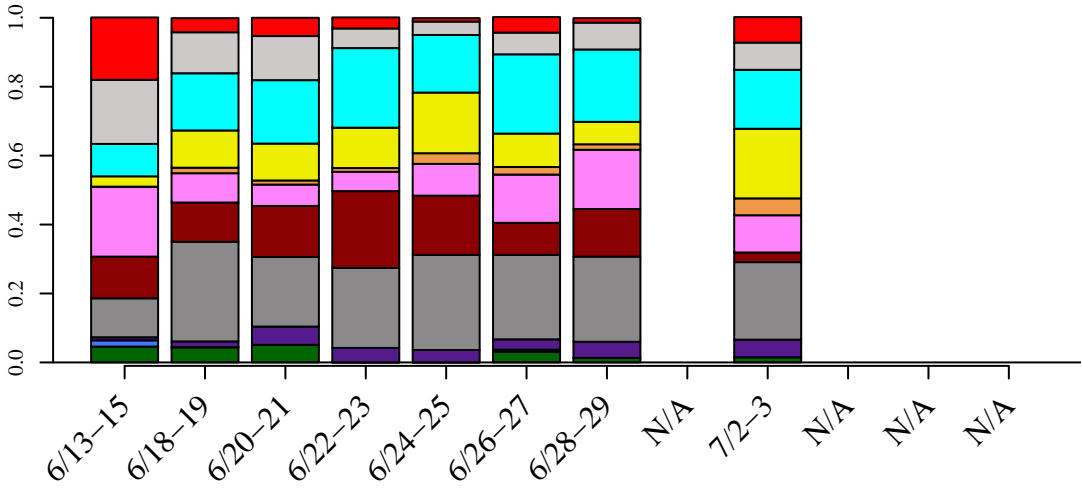
2008



2007



2006



Date