Scott Raborn

From: Scott Raborn
Sent: Sunday, July 9, 2023 2:42 PM
To: Jordan Head
Cc: Michael Link
Subject: PMTF Stock Comp. Estimate #11—samples from July 6-7, 2023
Attachments: PM genetics inseason 7.6-7.2023.pdf; CE_ByYearDayDistrict.pdf

Everyone,

Attached is the 11th 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 2-22 from July 6-7):

	Stock Composition	90% Confidence Intervals	
Reporting Group	Estimate	Lower	Upper
North Peninsula	0.6%	0.0%	3.0%
Ugashik	0.6%	0.0%	4.3%
Egegik	33.4%	24.7%	41.9%
Naknek	12.0%	6.2%	18.3%
Alagnak	5.1%	0.0%	11.1%
Kvichak	18.9%	11.6%	26.6%
Nushagak	15.9%	8.9%	23.2%
Wood	12.0%	6.8%	17.8%
Igushik	0.6%	0.0%	4.9%
Togiak	0.1%	0.0%	0.9%
Kuskokwim	0.6%	0.0%	3.2%

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).

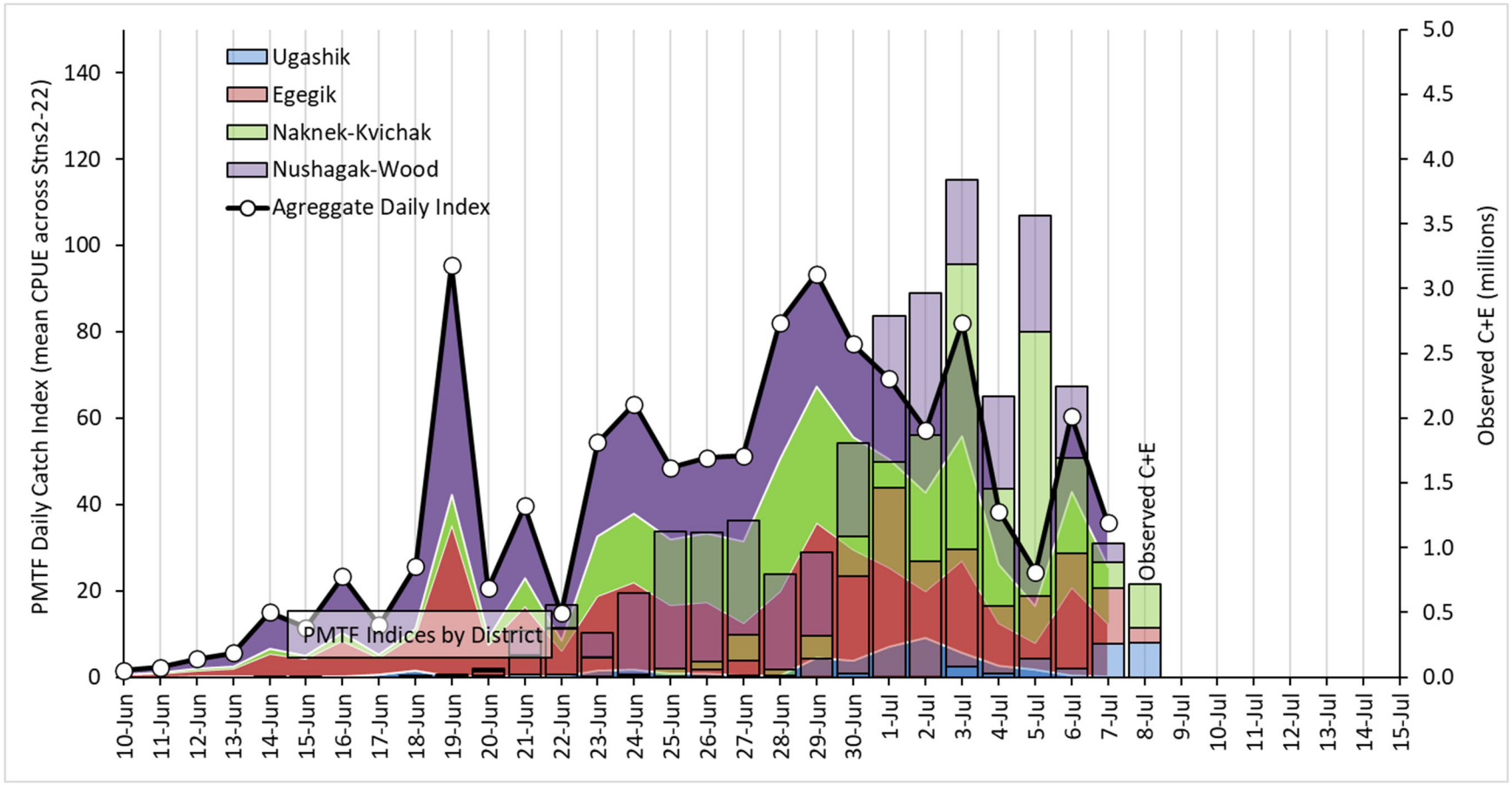
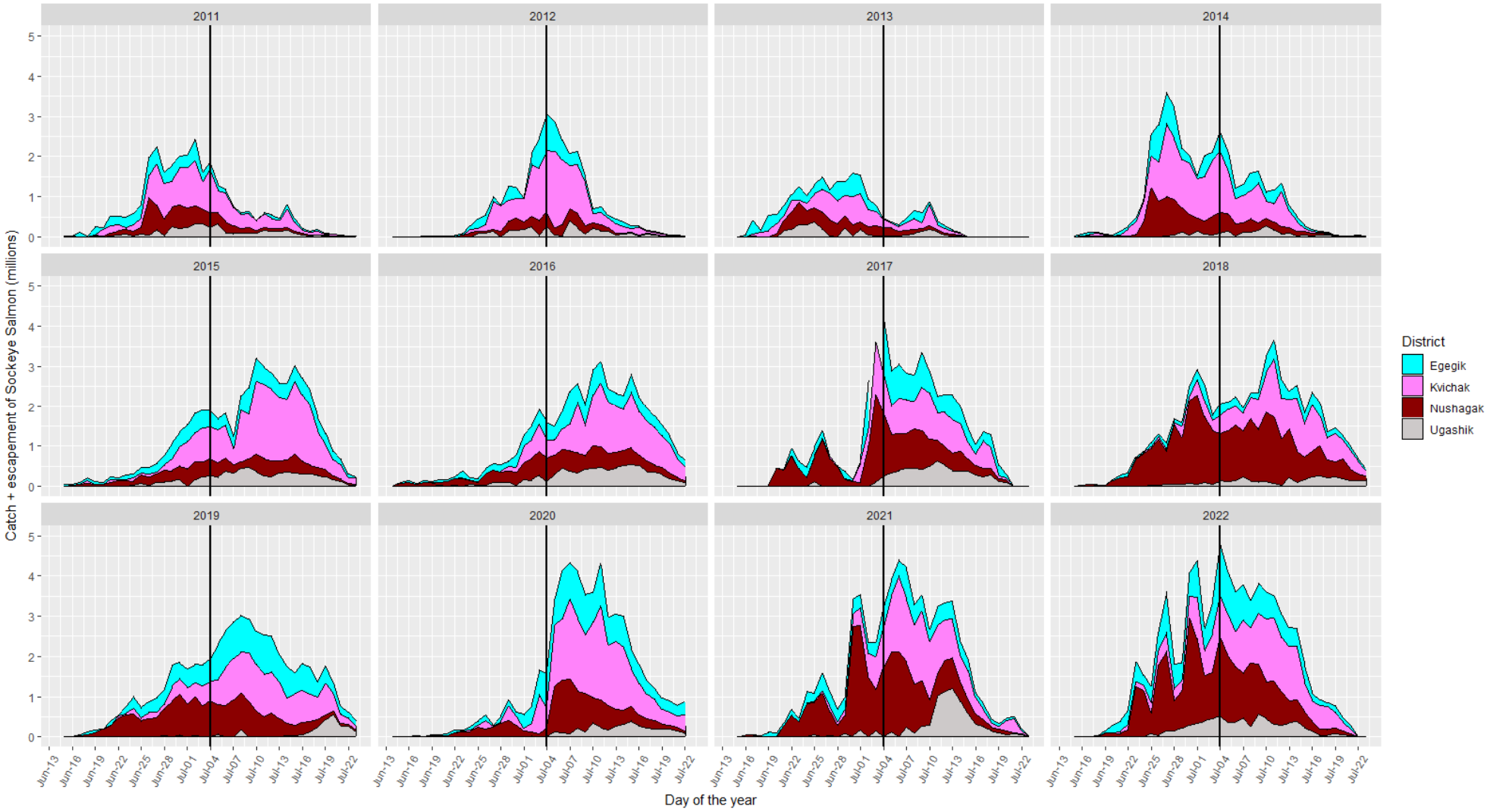


Figure 2. Catch plus escapement by district for 2011-2022. The black vertical line specifies July 4 in each year to facilitate comparisons.



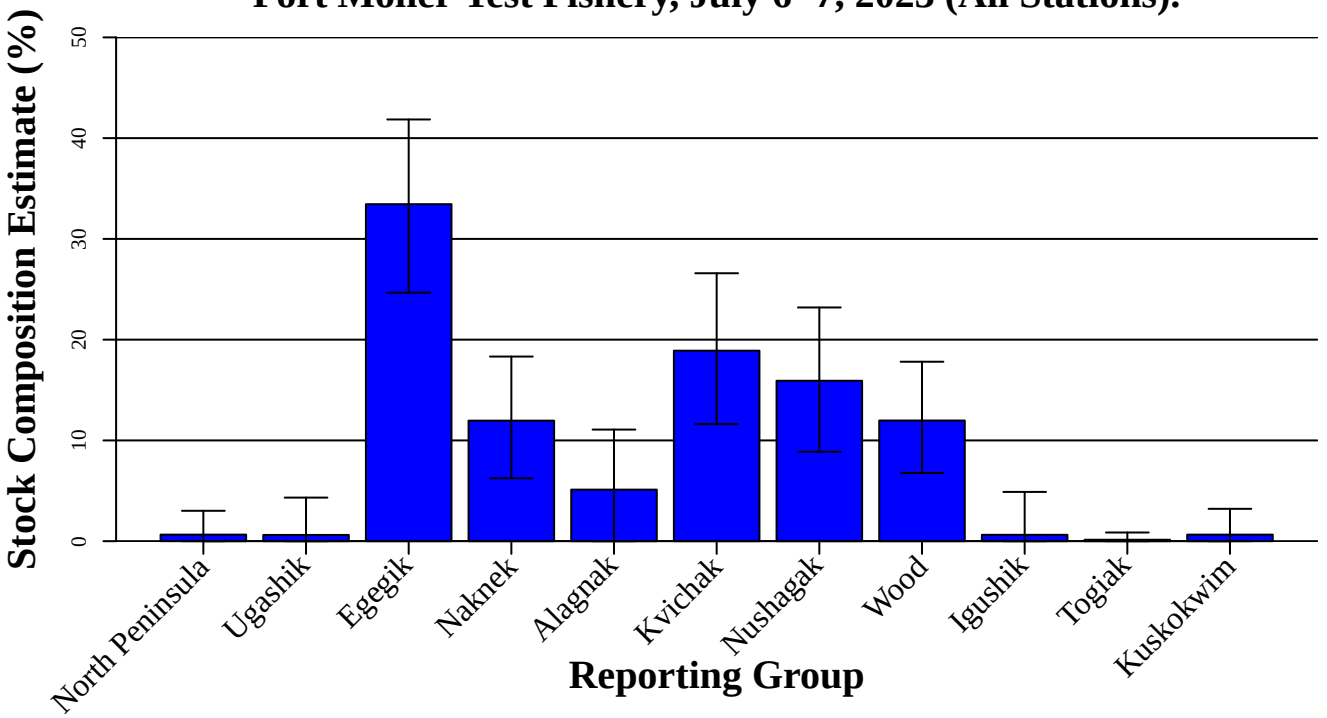
Bristol Bay Sockeye Salmon Fishery

Port Moller Sockeye Salmon Stock Composition Summary
July 6−7, 2023 − All Stations

Genetic stock composition estimates for sockeye salmon from the Port Moller Test Fishery for July 6−7, 2023. A total of 528 fish were sampled and 190 were analyzed (190 had adequate data to include in the analysis).

Reporting Group	Stock Composition Estimate	90% Confidence Intervals Lower	Upper
North Peninsula	0.6%	0.0%	3.0%
Ugashik	0.6%	0.0%	4.3%
Egegik	33.4%	24.7%	41.9%
Naknek	12.0%	6.2%	18.3%
Alagnak	5.1%	0.0%	11.1%
Kvichak	18.9%	11.6%	26.6%
Nushagak	15.9%	8.9%	23.2%
Wood	12.0%	6.8%	17.8%
Igushik	0.6%	0.0%	4.9%
Togiak	0.1%	0.0%	0.9%
Kuskokwim	0.6%	0.0%	3.2%

Genetic Stock Composition Estimates for Sockeye Salmon Captured in the Port Moller Test Fishery, July 6−7, 2023 (All Stations).



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

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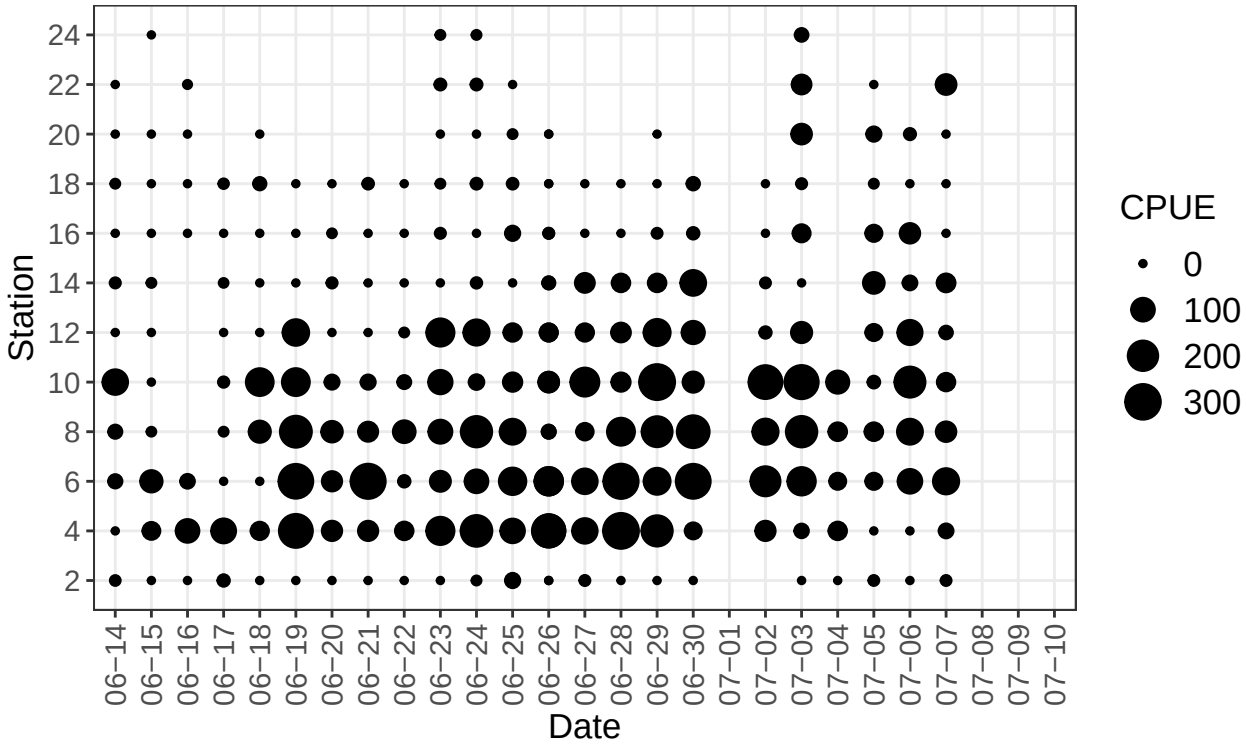
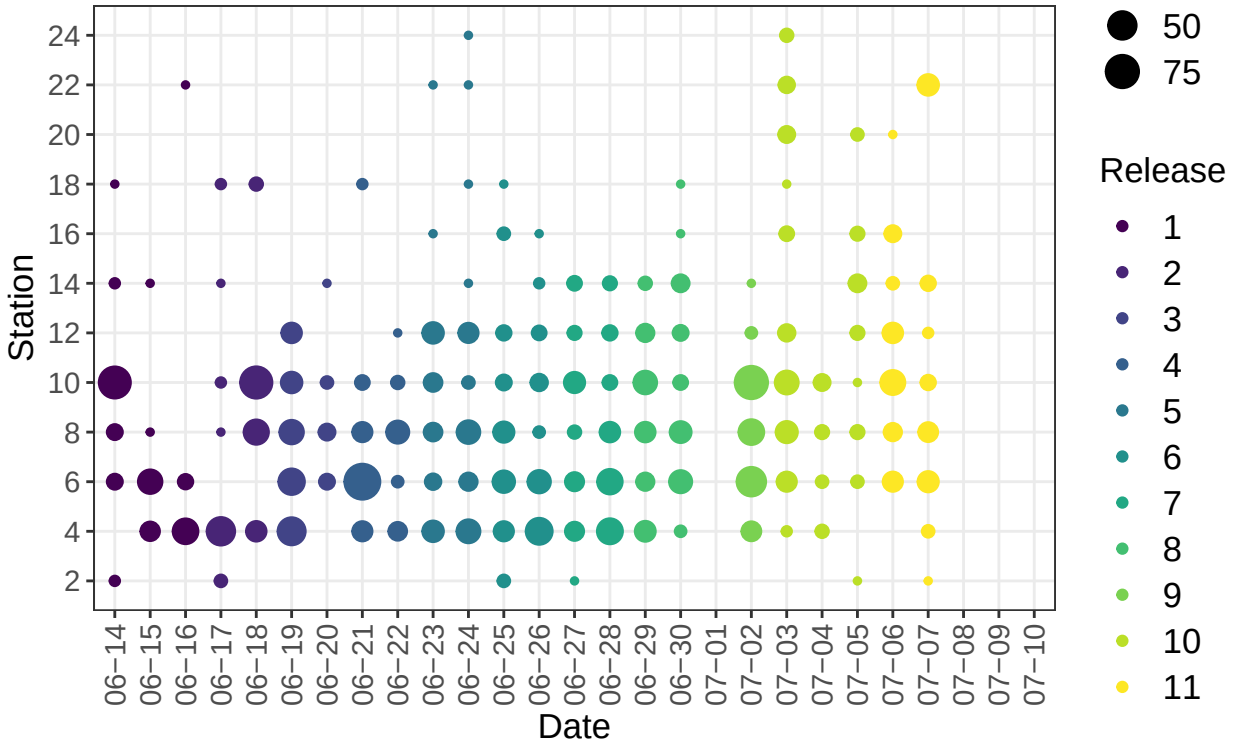
Port Moller Test Fishery 2023
Catch Per Unit of Effort by Date and Station



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



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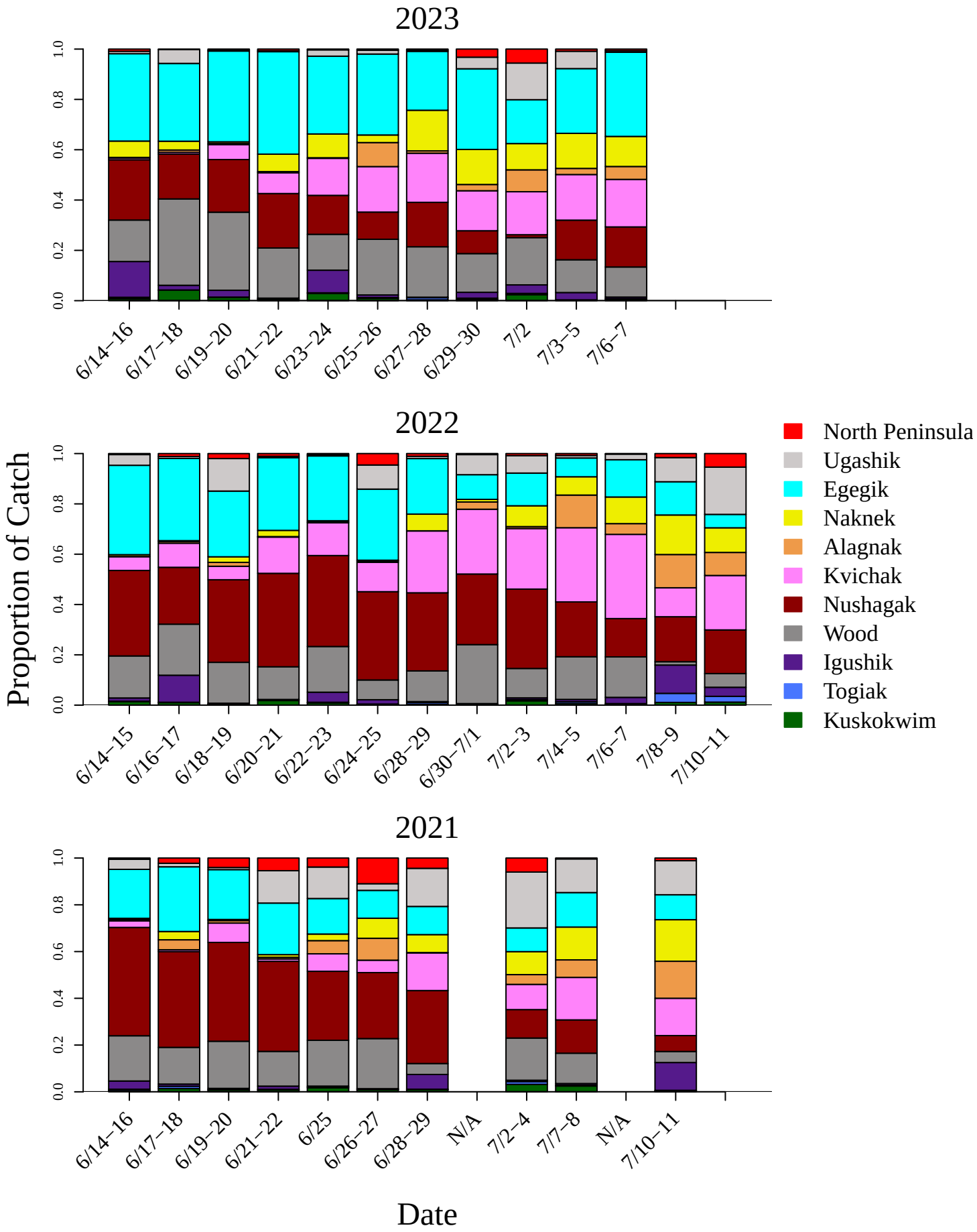
Historical Comparison of Stock Composition Estimates



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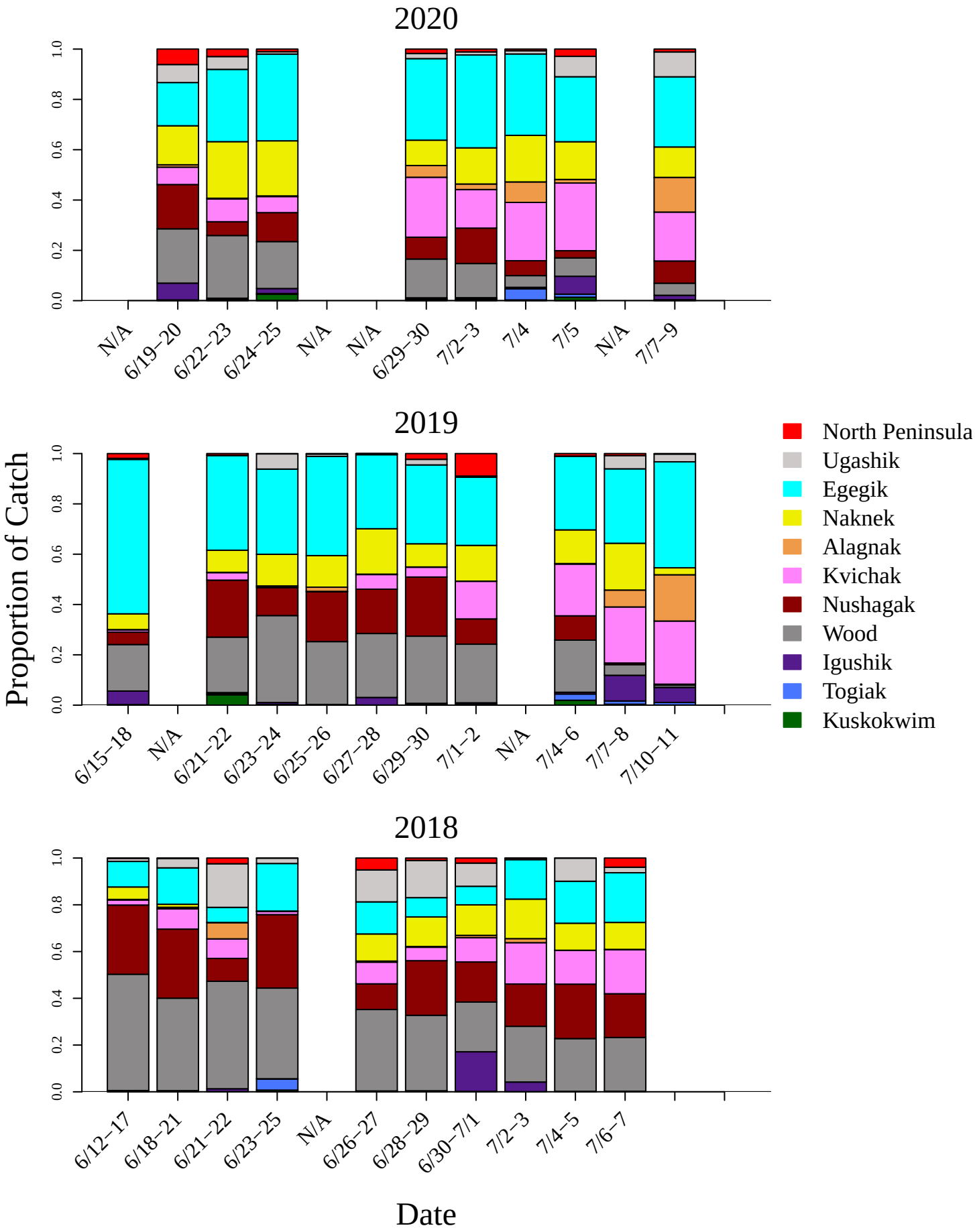

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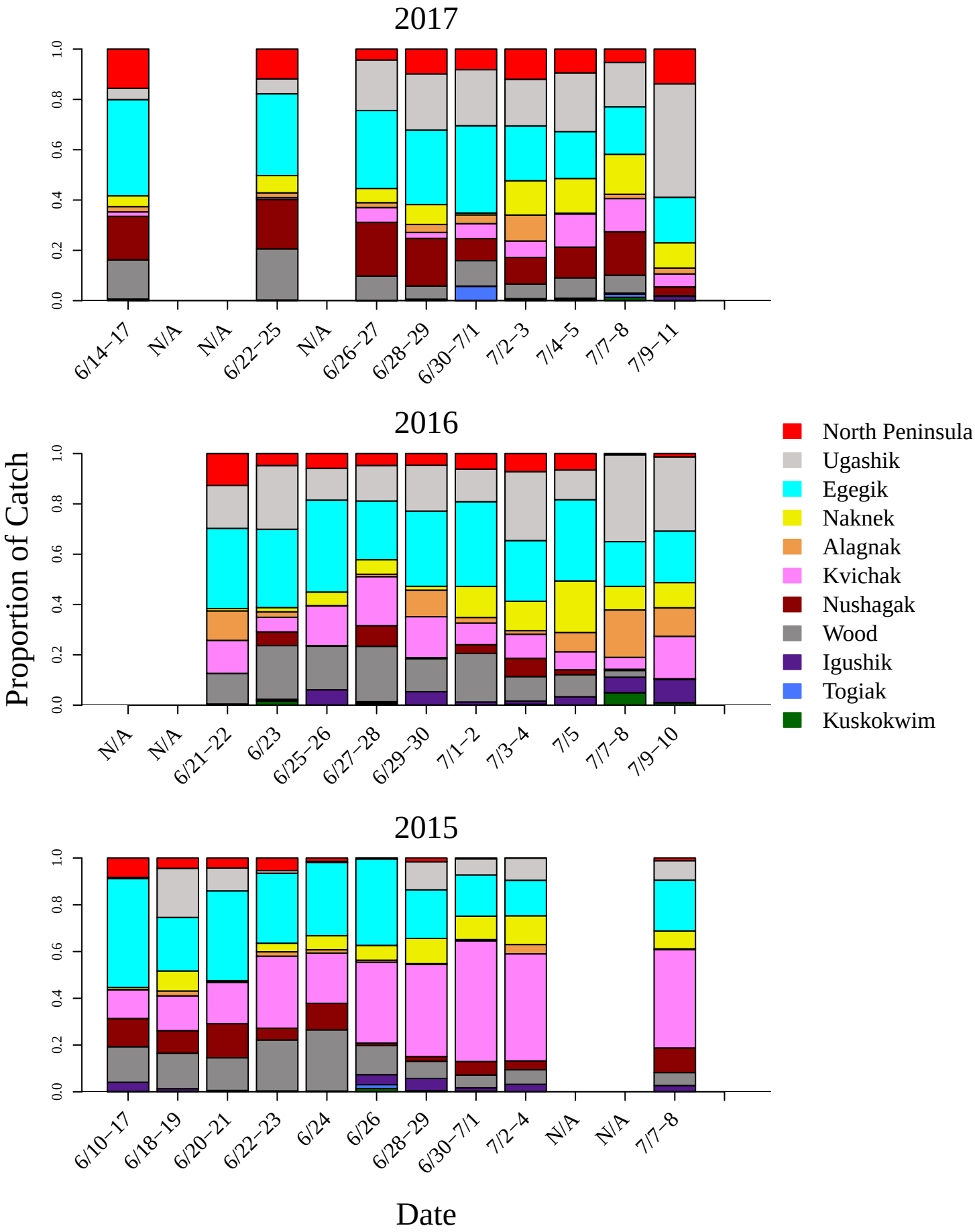

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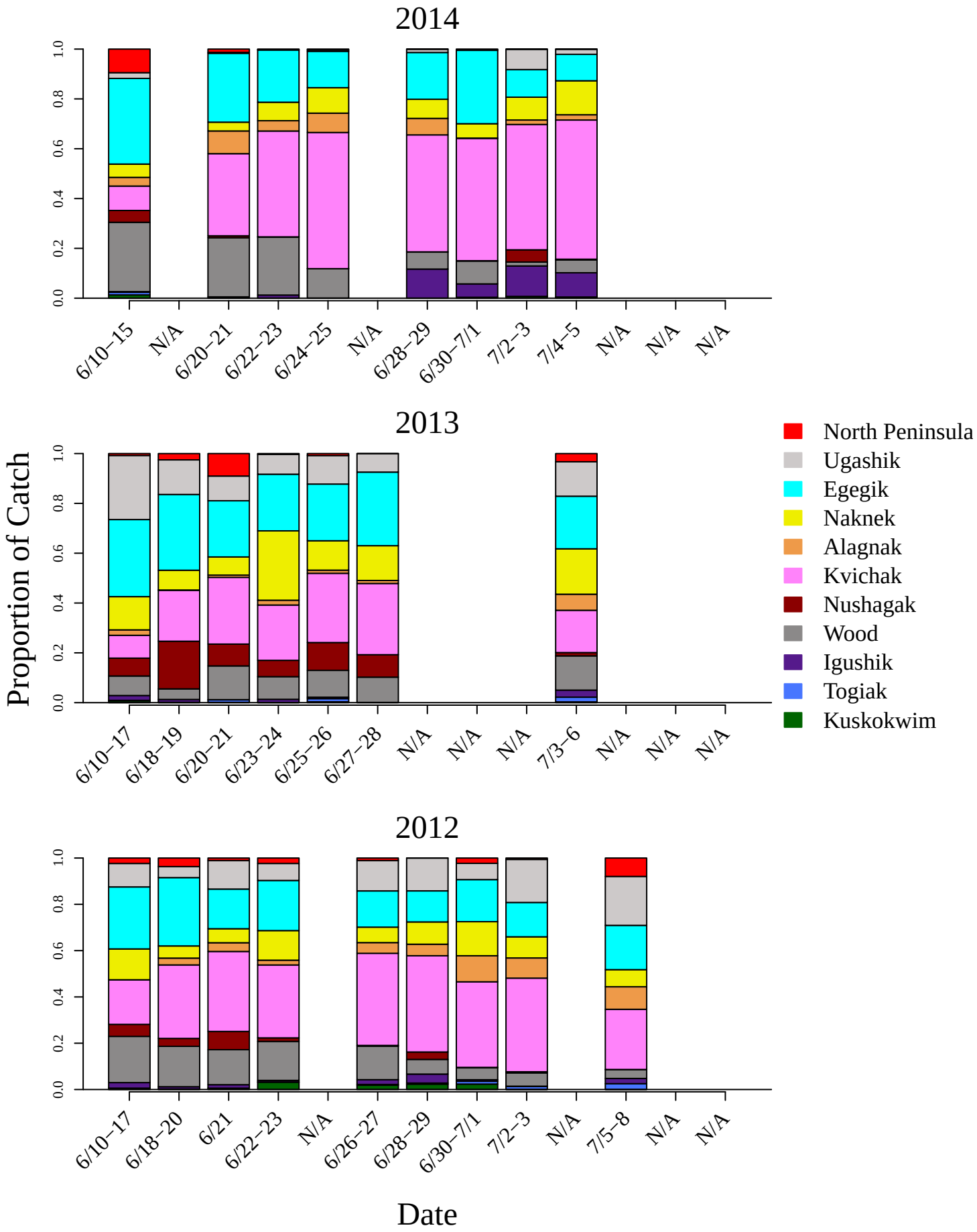

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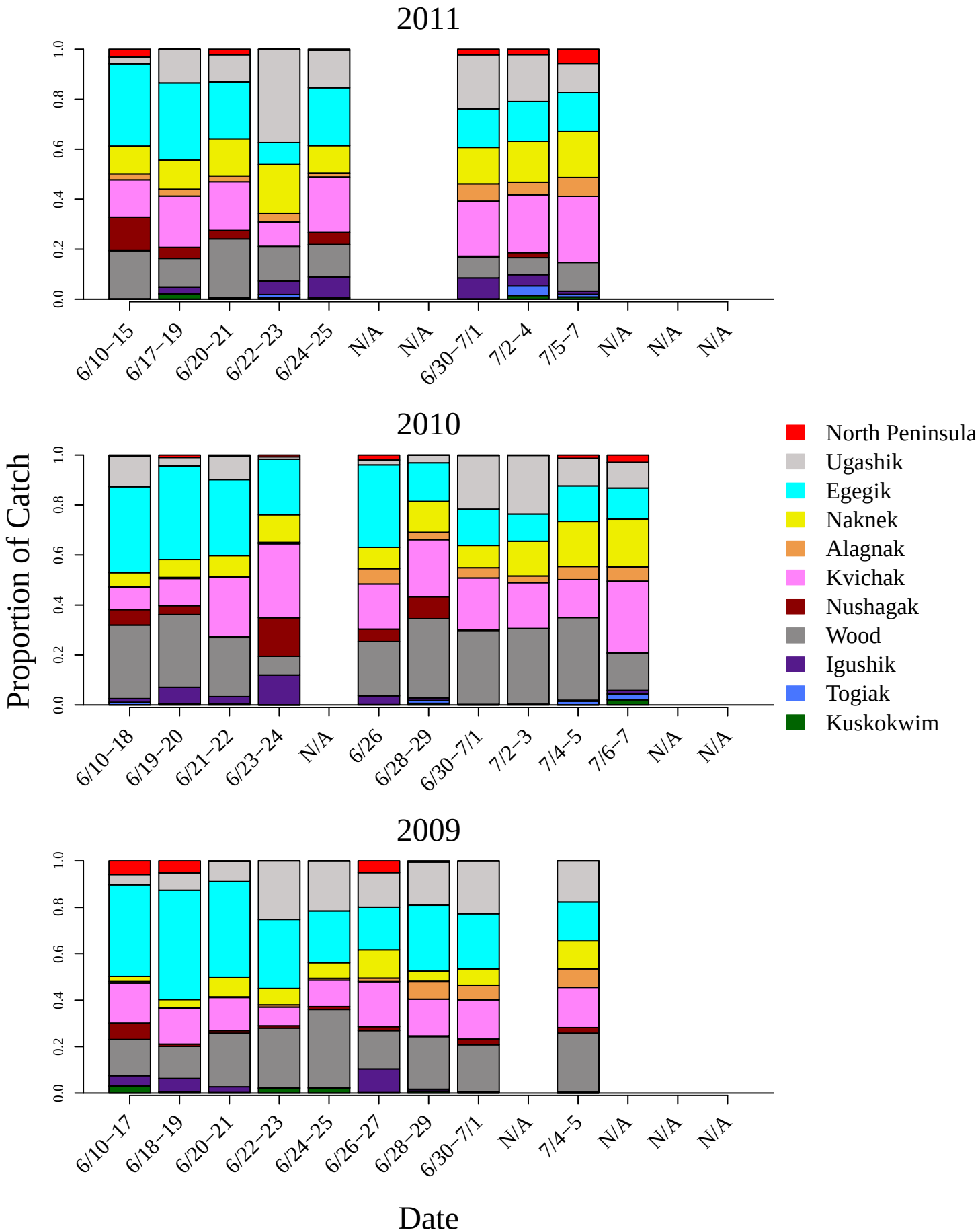

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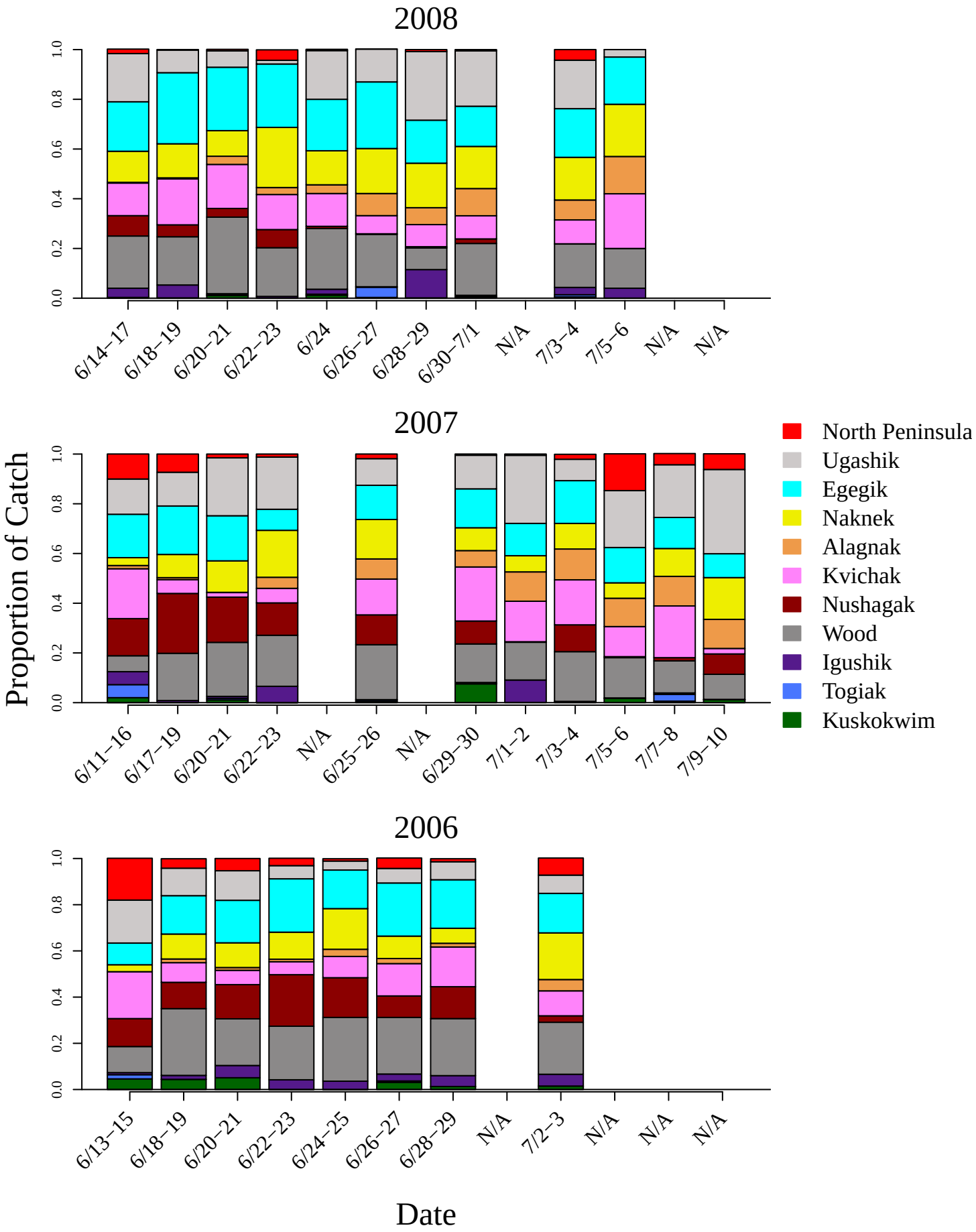

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