

Supplementary Materials for:

**How the collection of fish length data using electronic monitoring video review measures up to fishery-independent survey methods**

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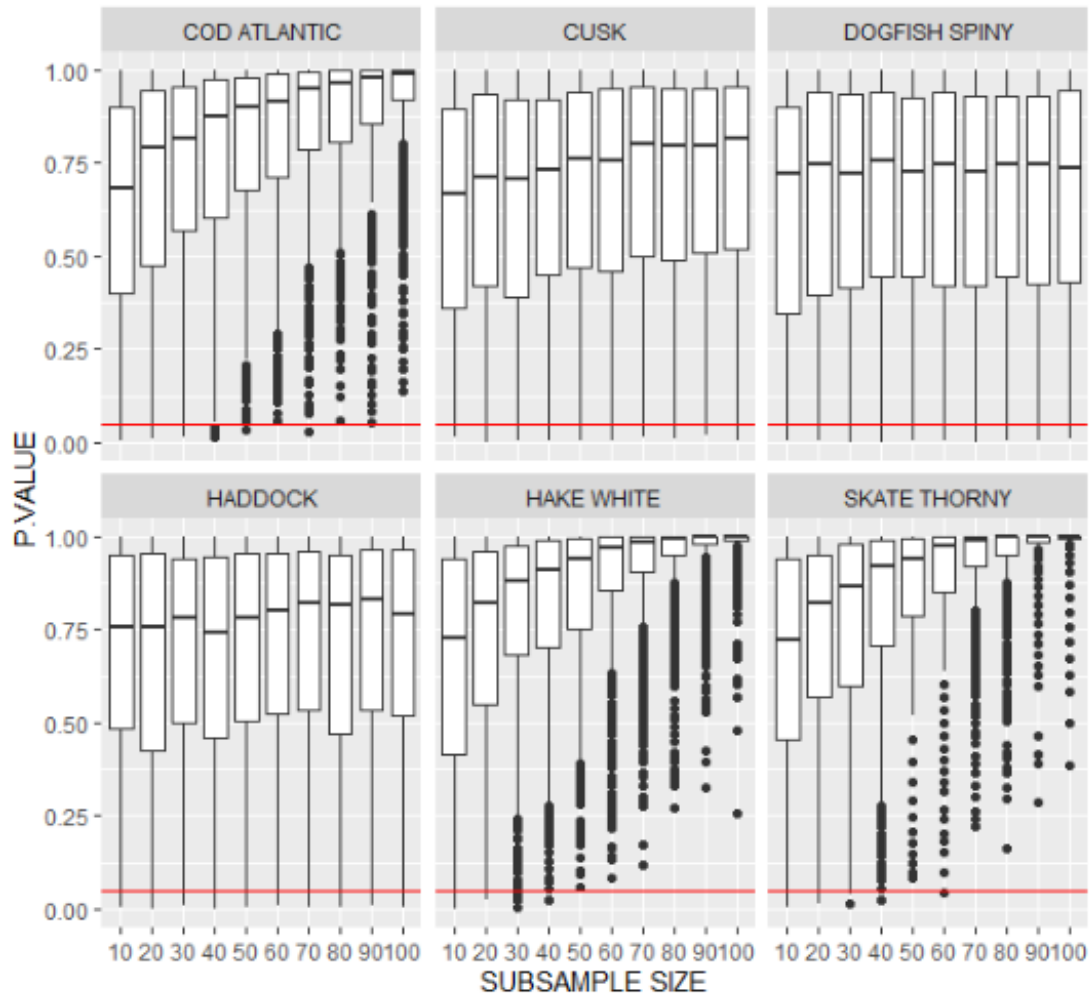
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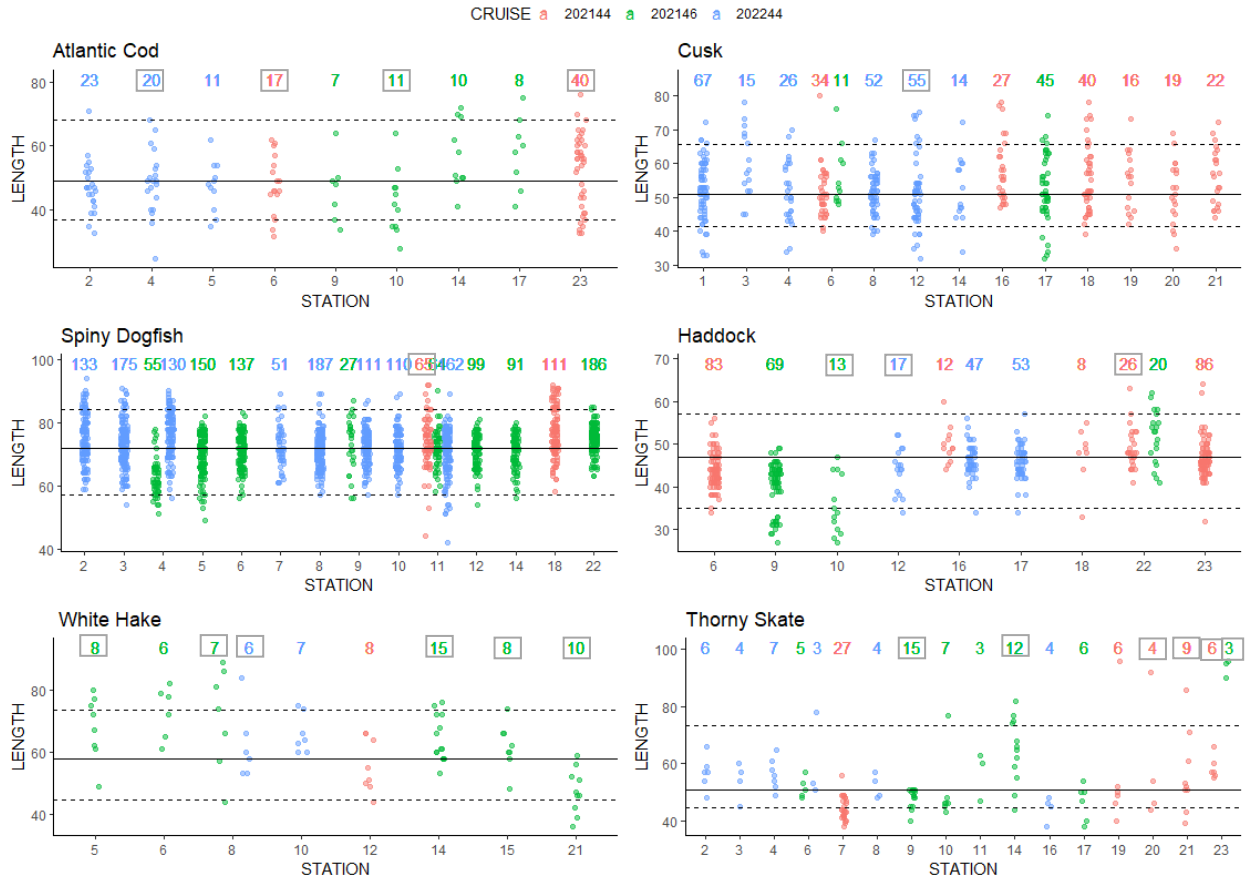
### K-S test p-values across subsamples sizes 10-100



S1: Distributions of  $p$ -values from bootstrapped Kolmogorov-Smirnov tests.

Species	$N$	Target $n$		Station Criteria		Measured $n$
		sampling-book	K-S	Med. Length $\pm$	Individuals per station	
Atlantic Cod	245	<u>72</u>	60	50%	$n > 5$	74
Cusk	981	43	<u>50</u>	50%	$10 < n < 100$	55
Haddock	1507	25	<u>50</u>	50%	$5 < n < 100$	56
Spiny Dogfish	7536	14	<u>50</u>	50%	$20 < n < 200$	65
Thorny Skate	203	<u>87</u>	50	20%	$n > 2$	84
White Hake	196	49	<u>50</u>	50%	$n > 5$	54

S2: Subsample size determination, station subset and selection criteria for each species.  $N$  = number of length records from survey data;  $n$  = subsample size (underline indicates target  $n$ ). Target  $n$  was estimated from two methods. Station selection criteria med = median



S3: Distributions of fish lengths for each cruise and station that met subset criteria: 1) Had at least one individual above or below the length threshold and 2) Had the specified number of individuals per station. Dashed line is species median length. Colors denotes cruise number (202144 = spring 2021, 202146 = fall 2021, 202244 = spring 2022). Values at the top of each distribution indicate the number of individuals in the respective cruise and station while the boxes around select values indicates selected stations and the number of measured individuals. At cruise 202144 station 23 the camera cut out at 15:47:01 which resulted in measurement of only 3 thorny skates and 26 Atlantic cod.