

Figure 1. Comparison of the **2018** and **2020** proportions by weight of each pack category in each month and the sex-disaggregated proportions varFy and the assessment model with a weight of 0.000625 applied to the penalty related to F_y .

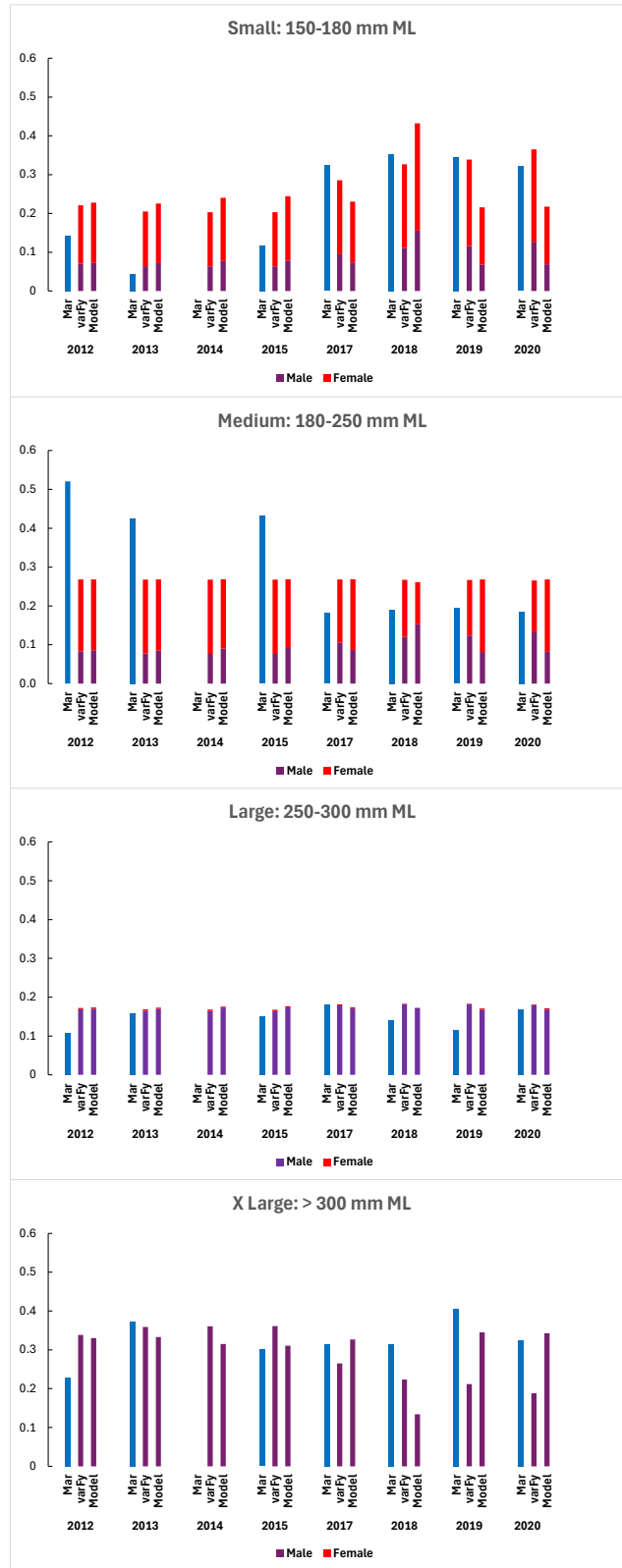


Figure 2. Comparison of the **2012 to 2020** proportions by weight of each pack category for the month of March and the sex-disaggregated proportions generated under the time-variant F_y and the assessment model with a weight of 0.000625 applied to the penalty related to F_y .

Table 4. Contributions to the negative log-likelihood when fitted to the CPUE, survey indices and pack data and when the total recruitments are set to double, and the fishing proportions are fixed to half the values of the estimated values.

Parameter estimates	Model	
	Model	Fixed values
-ln L: pack	-959.1	-945.8
-ln L: CPUE	-11.23	-11.989
-ln L: survey (SC autumn)	-20.08	-19.42
-ln L: survey (WC summer)	19.82	20.34
-ln L: F_y related penalty	0.016	26 628
-ln L: Total	-970.6	25 671