

OVERVIEW OF THE 2018 BLUE CRAB STOCK ASSESSMENT UPDATE



For the 2017 stock assessment update:

Survey data updated through 2017

WDS, MDNR trawl, VIMS trawl

Landings data updated through 2016

MDNR, VMRC, PRFC

Extensive QA/QC on WDS and MDNR trawl datasets

Same SSCMSA model used

Sex-Specific Catch-Multiple Survey Analysis

Same parameters used

(male & female natural mortality, percent recruited to the fishery,
percent female recruited to the population)

Sensitivity runs

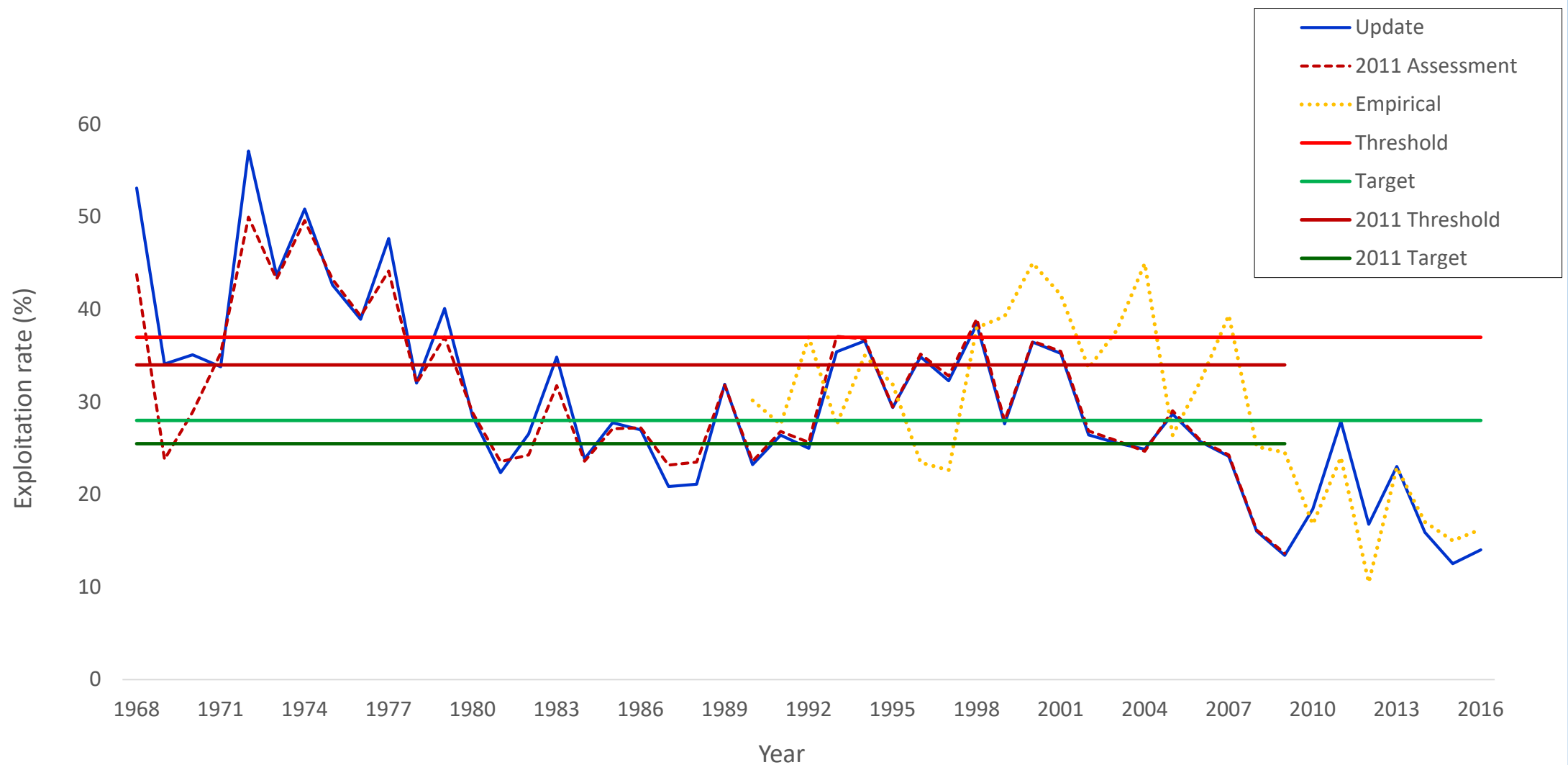
WDS abundance estimates using equal gear efficiency

Data from 1990-2017

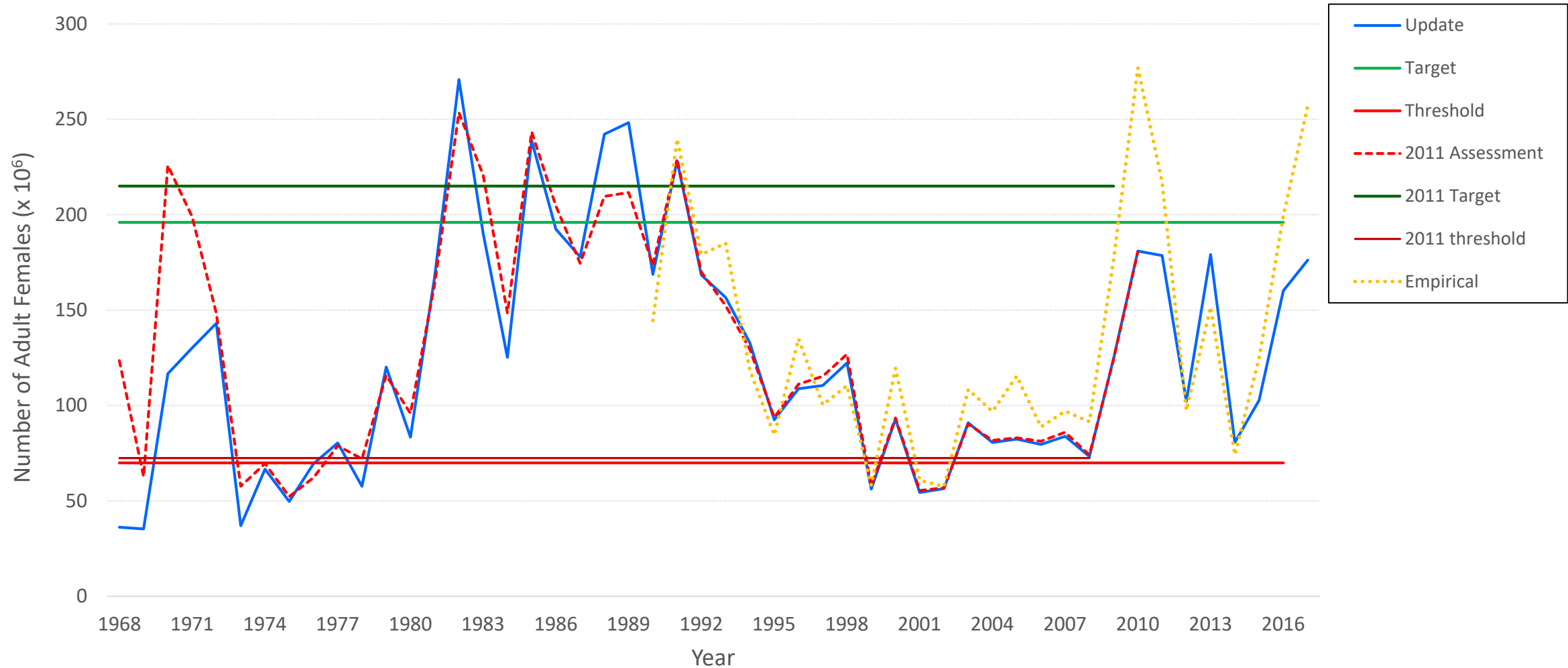
Over-wintering mortality (WDS estimates)

Comparison of biological reference points generated by the 2011 benchmark stock assessment and the 2017 stock assessment update.

	Abundance (age 1+ females)		Exploitation (females)	
	2011	2017	2011	2017
Target	215	196	25.5	28
Threshold	70	72.5	34	37



Female exploitation rate with biological reference points. Presented are updated estimates of exploitation and reference points, estimates and reference points from the 2011 stock assessment, and empirical estimates.



Adult female abundance with biological reference points. Presented are updated estimates of abundance and reference points, estimates and reference points from the 2011 stock assessment, and empirical estimates.

Thank you:

