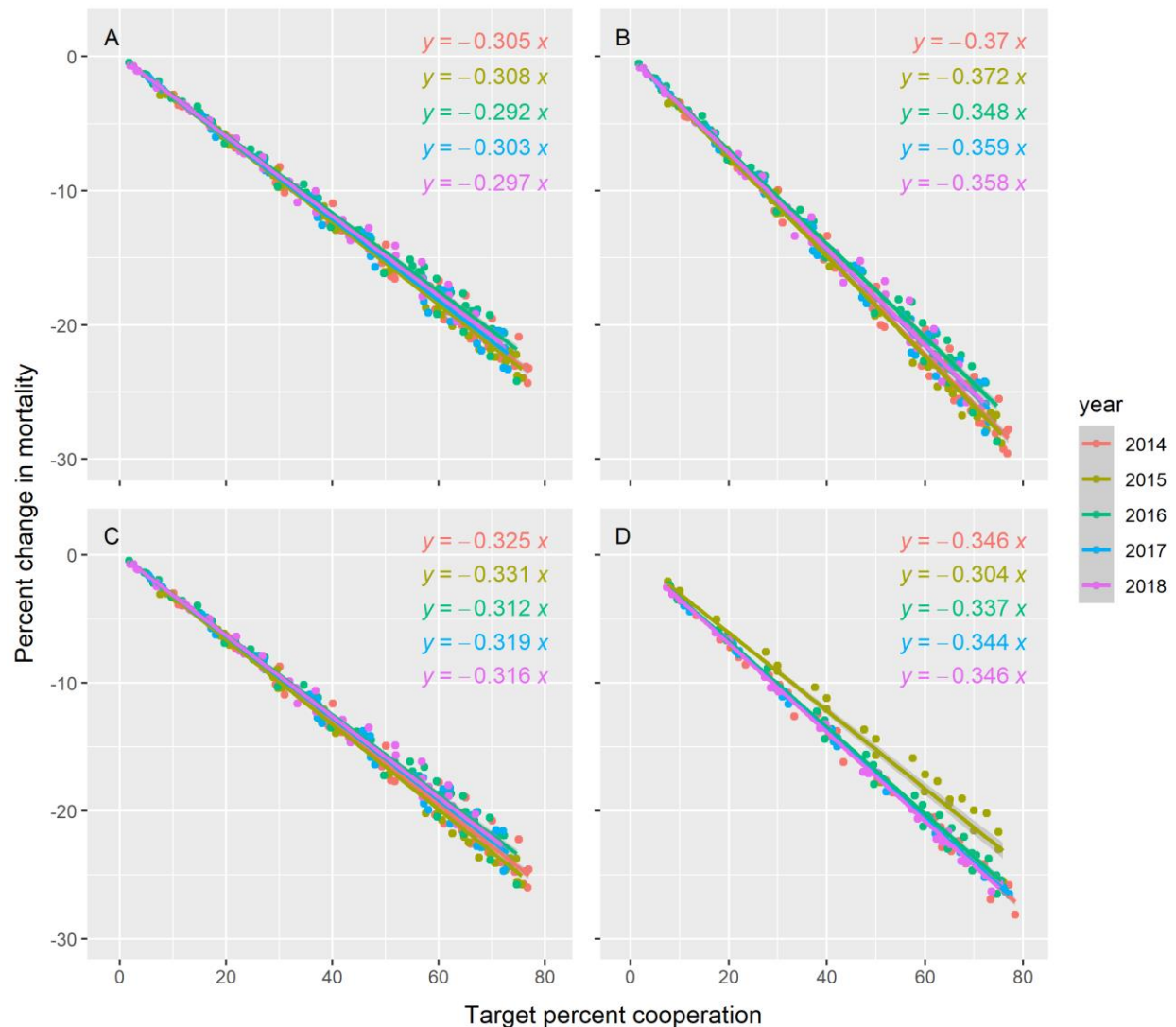
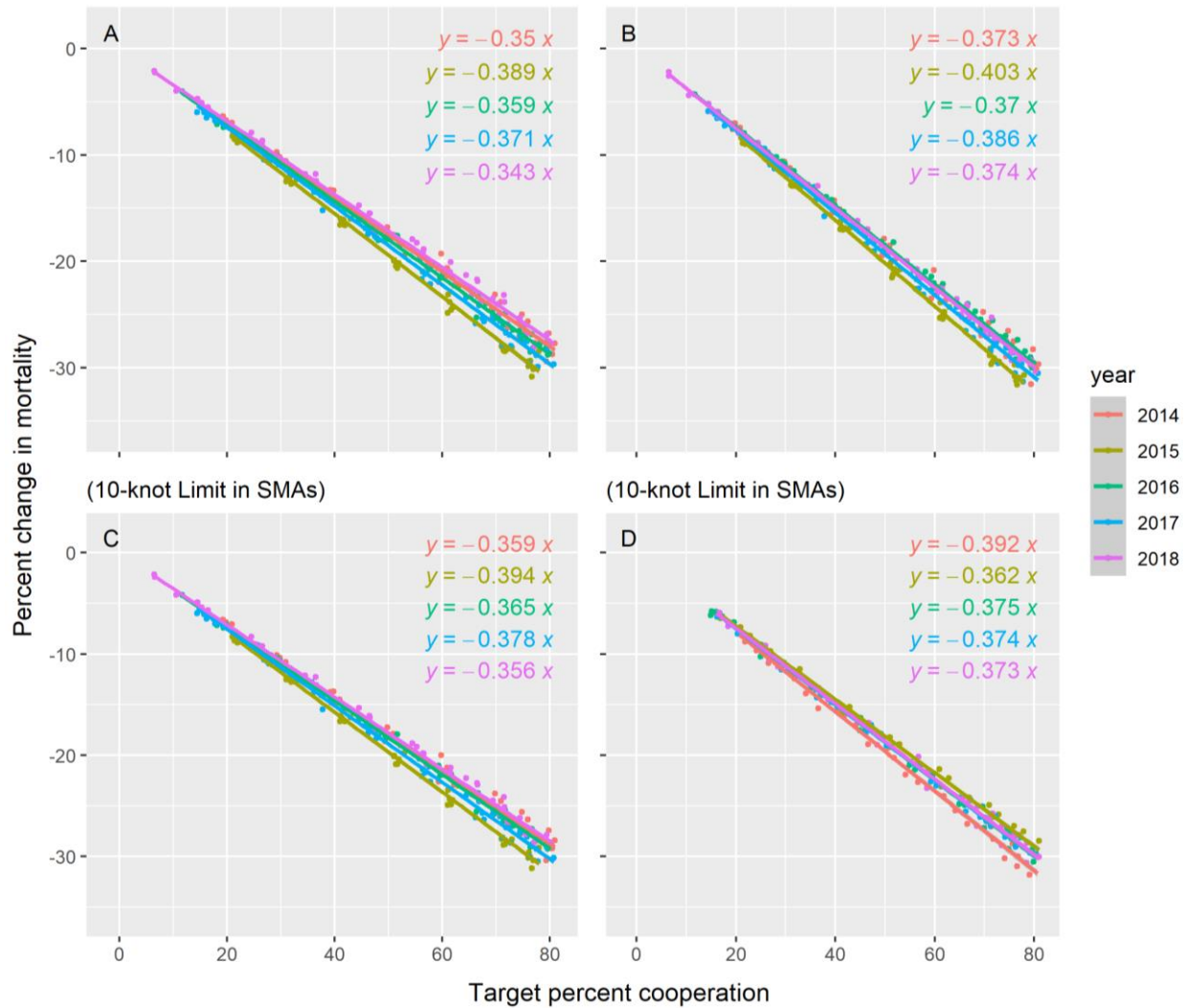


Supplementary Material

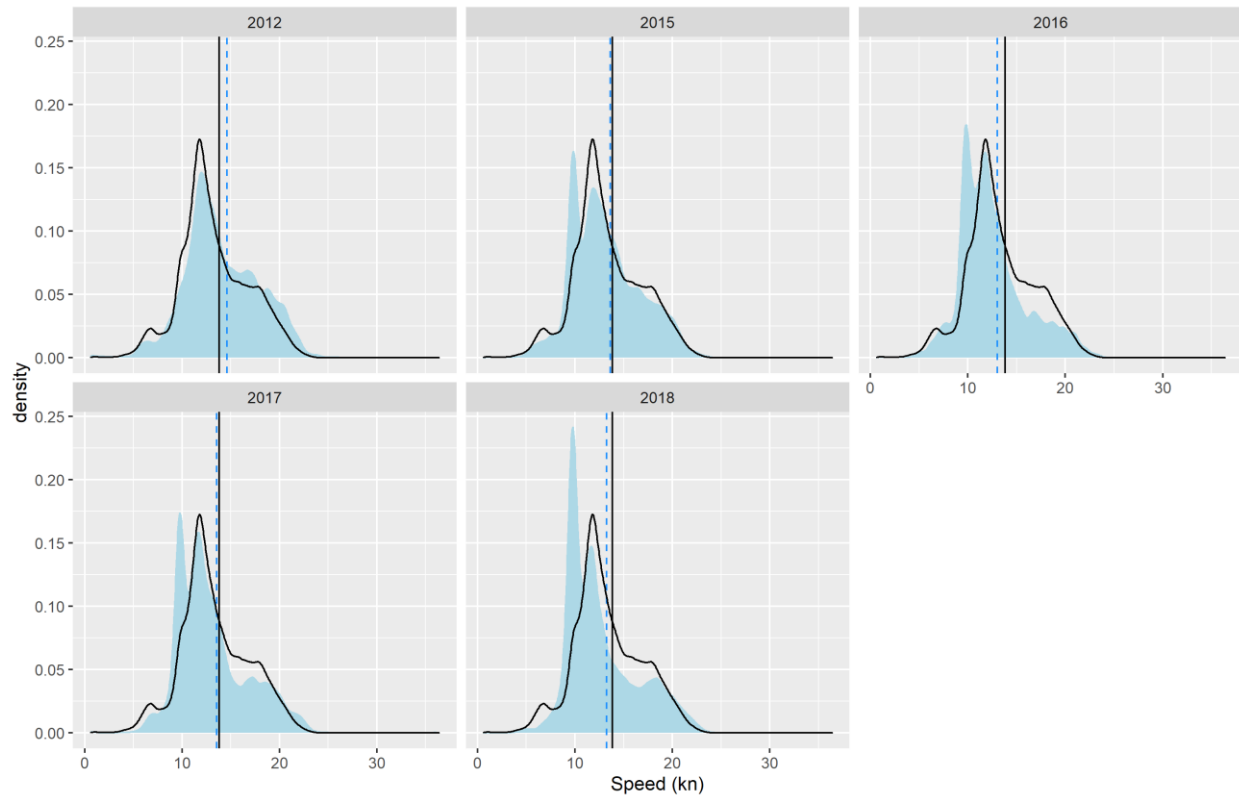
1 Supplementary Figures



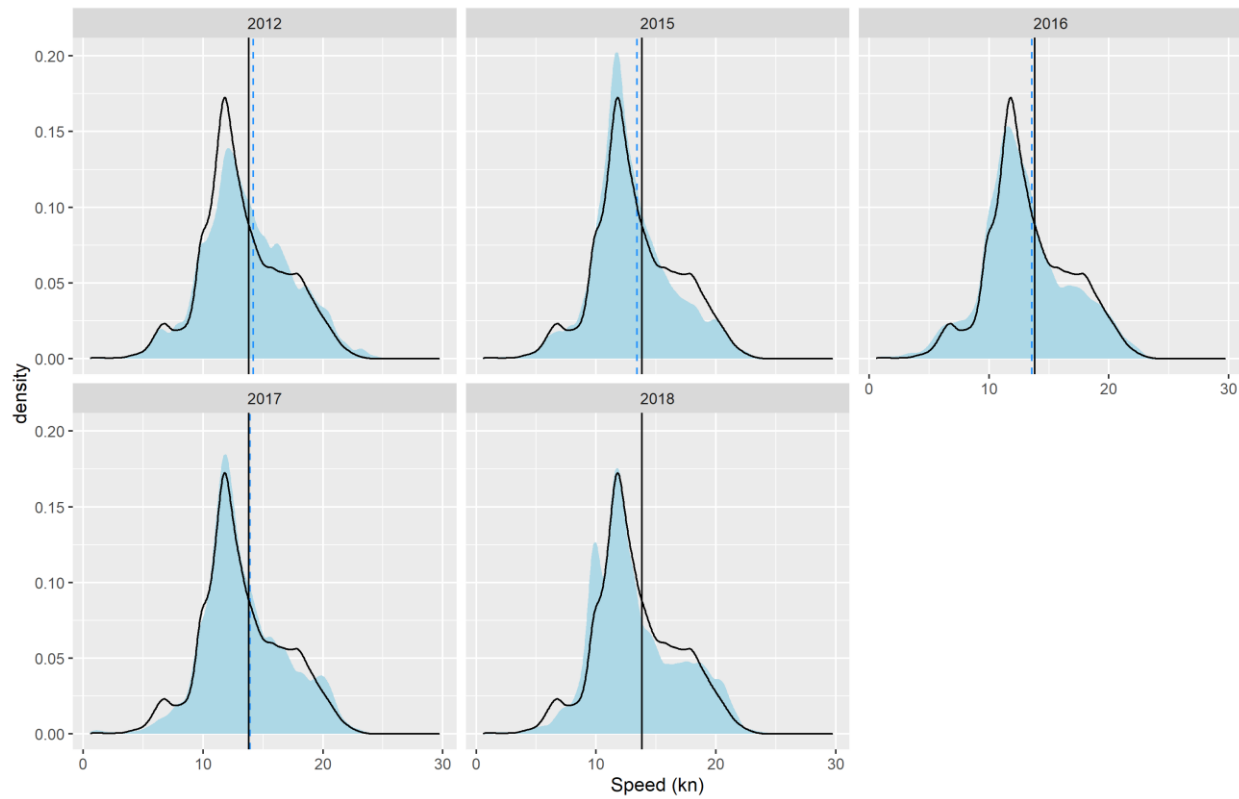
Supplementary Figure 1. Linear relationships between the simulated percent increase in cooperation and the percent reduction in mortality in the TSS for blue whales (A), humpback whales during June-November (B), fin whales (C) and humpback whales during January-April (D). Each point represents a simulation for a particular month and target compliance level. Equations for each linear fit are displayed in the top right of each panel.



Supplementary Figure 2. Linear relationships between the simulated percent increase in cooperation and the percent reduction in mortality in the SMAs for blue whales (A), humpback whales during June-November (B), fin whales (C) and humpback whales during January-April (D). Each point represents a simulation for a particular month and target compliance level. Equations for each linear fit are displayed in the top right of each panel.



Supplementary Figure 3. Density plots of ship speeds for the 2013-2014 non-VSR reference period (black curve) and the density during each active-VSR period (blue curves) for 2012-18. The vertical black line indicates the mean of non-VSR (2013-14) ship speeds and the dashed blue line is the mean of the active-VSR mean for each year.



Supplementary Figure 4. Density plots of ship speeds for the 2013-2014 non-VSR reference period (black curve) and the density during each inactive-VSR period (blue curves) for 2012-18. The vertical black line indicates the mean of non-VSR (2013-14) ship speeds and the dashed blue line is the mean of the inactive-VSR mean for each year.