SEDAR DW16-05 Addendum The changes to document 5 as a result of the discussions in the Commercial Statistics Working Group (CSWG)

Issue #1—Depth stratification in the GOM effort data

The initial estimates of bycatch in the GOM were extrapolated using effort treated as uniform across all of the GOM. It was suggested during plenary that I try to get the effort data by depth strata. I requested the data by depth strata from James Nance at the NMFS-Galveston lab. The new effort data stratification is shown in Figure 1.

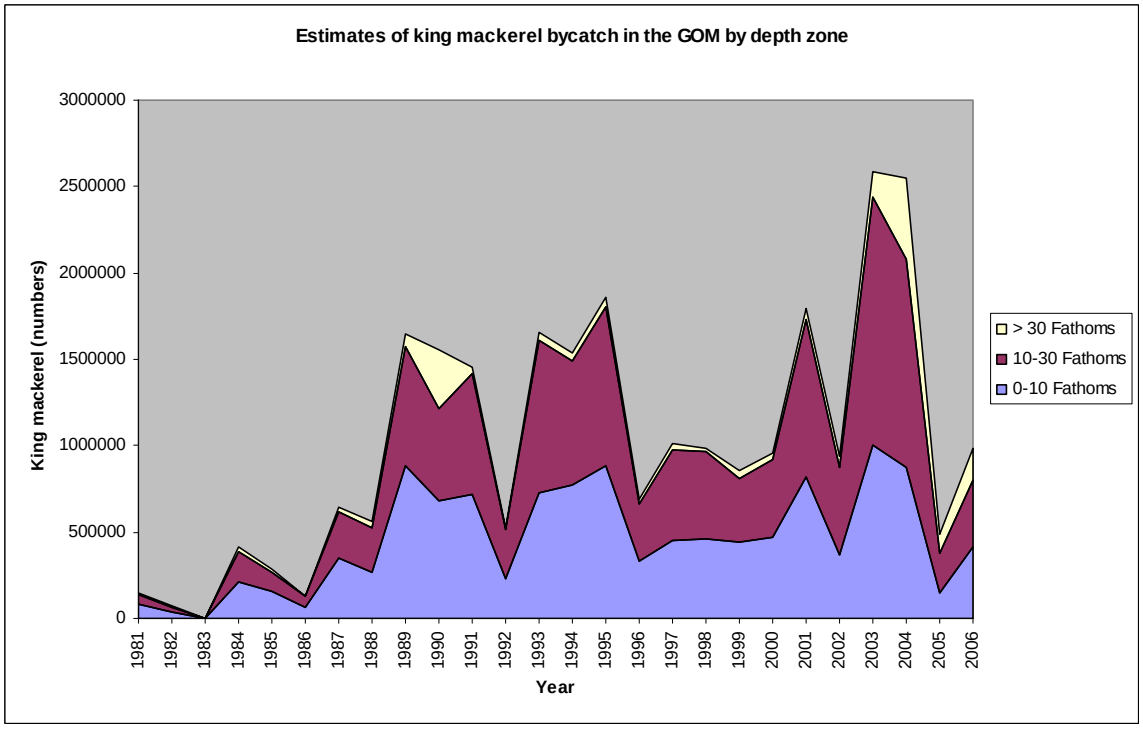

Figure 1. The bycatch estimates differentiated by depth zone. The blue area is the bycatch in the nearer shore (0-10 fathoms), while the yellow area is the bycatch estimate for the farthest depth zone (greater than 30 fathoms).

The results correspond to the points brought up in both plenary and the CSWG. The majority of the shrimping effort is between 0 and 30 fathoms.

Issue #2—Differentiating ocean vs. inshore effort in the SA

Based on discussions and clarifications in the CSWG, the shrimping effort data was re-examined for the SA. The group agreed after conferring with the Life History Working Group that we should use only the ocean effort for the bycatch estimates in the SA. The Pamlico Sound effort was removed from the North Carolina effort data and the other states data were reorganized based on fishing area. The inshore effort was excluded for this analysis. Figures 2-7 are the updated values.

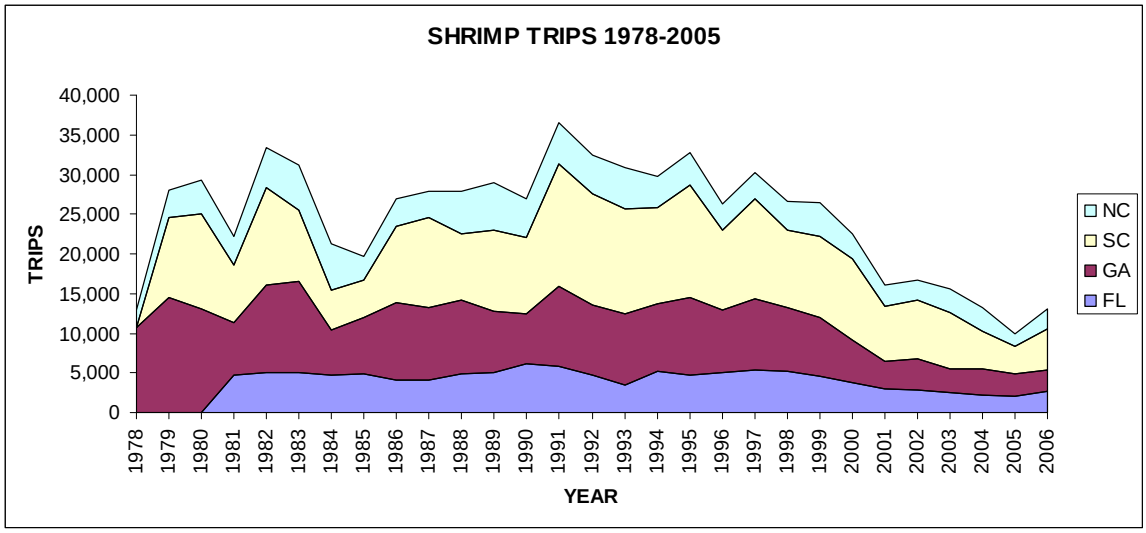

Figure 2. Ocean shrimping effort in the SA by state.

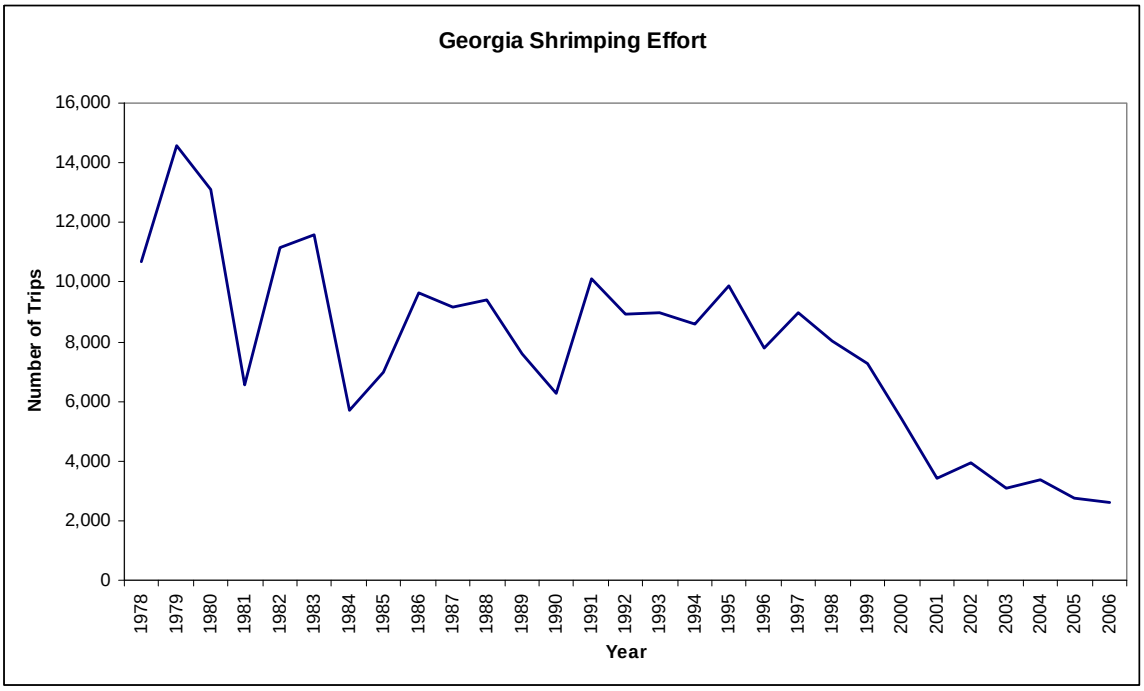

Figure 3. Ocean shrimping effort off the Georgia coast.

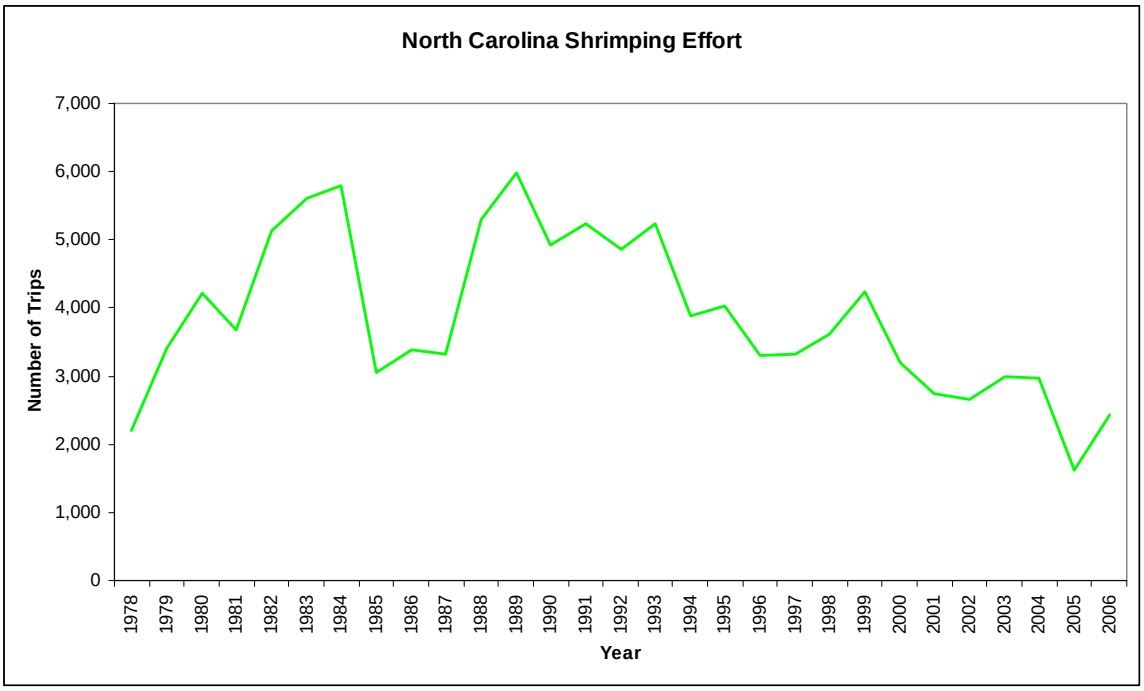

Figure 4. Ocean shrimping effort off the coast of North Carolina.

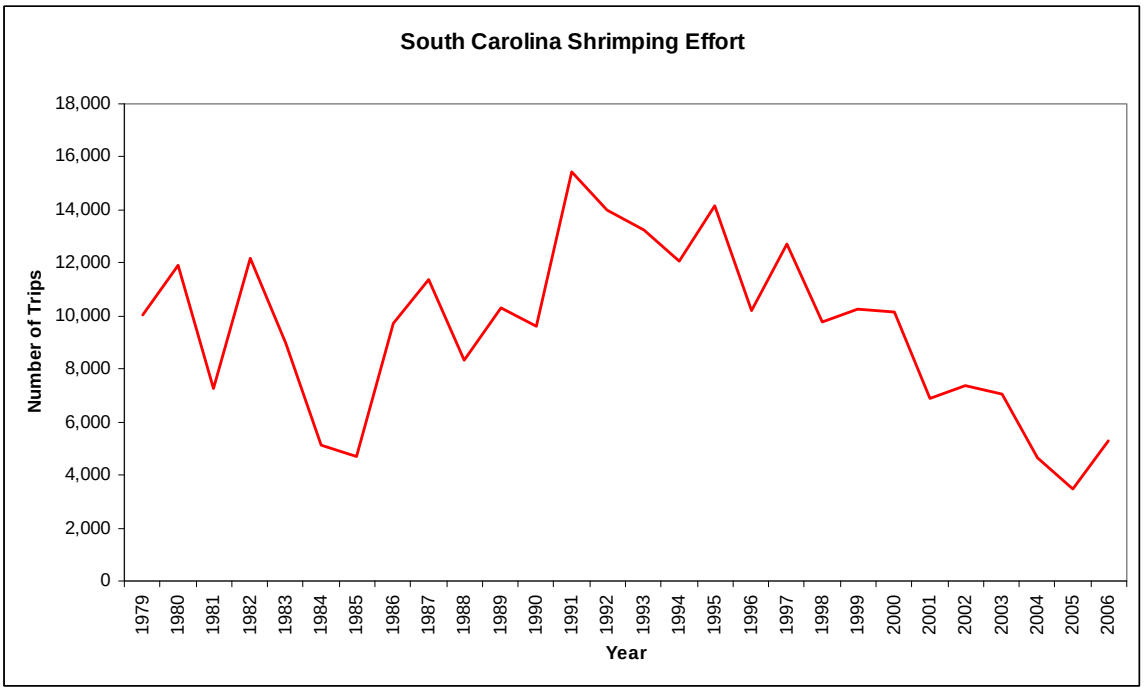

Figure 5. Ocean shrimping effort off the coast of South Carolina.

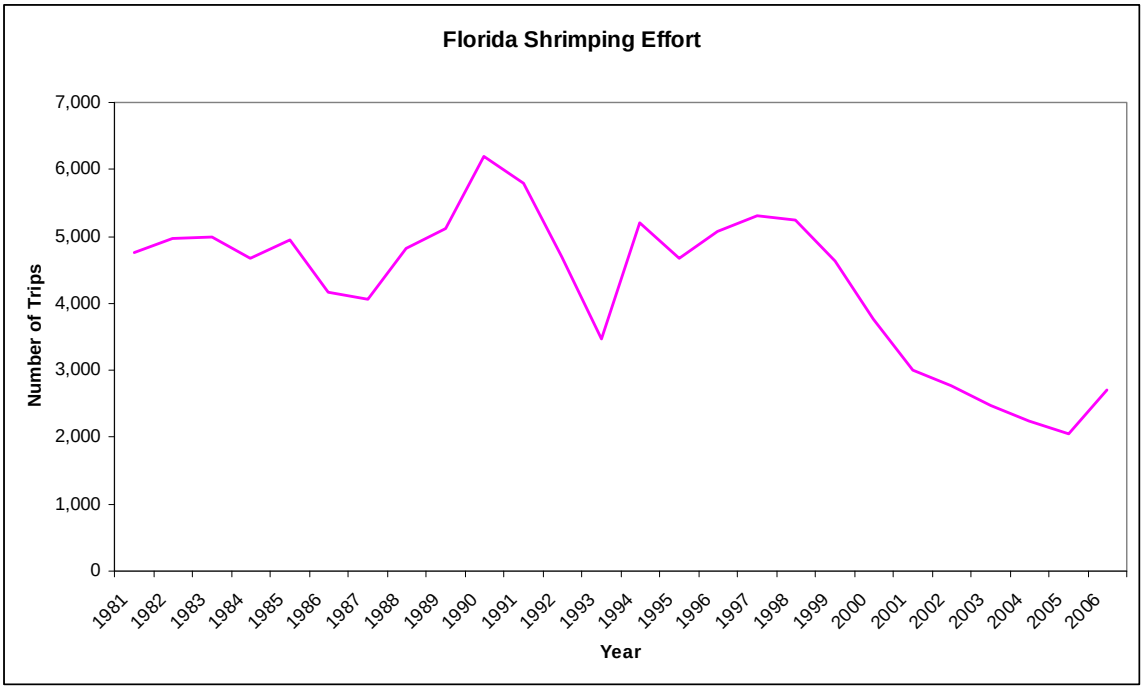

Figure 6. Ocean shrimping effort of the coast of the Florida no-mix zone.

Issue #3—updated effort data from the GOM, post-meeting

James Nance provided updated values for 2006 and 2007. Figure 8 below illustrates the updated values.

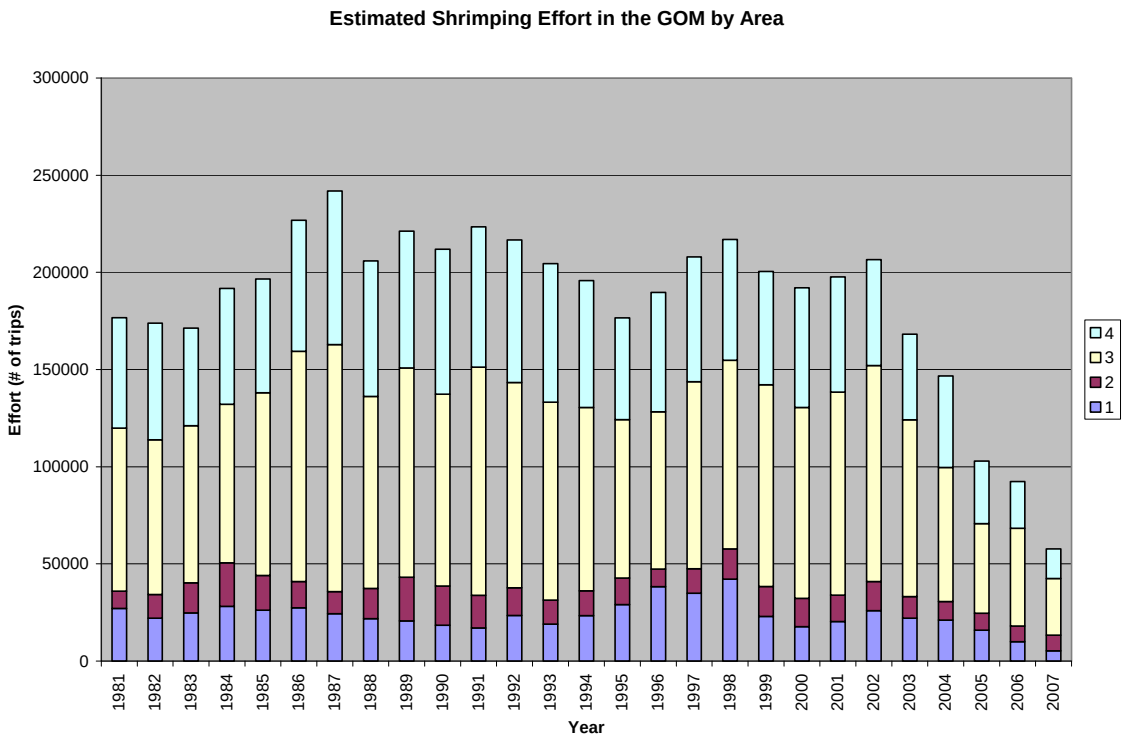

Figure 8. Updated shrimping effort by area in the GOM.

Issue #4—CVs were not included in the initial report of the index calculated from the delta-glm.

The index and the CVs are listed in Table 2 below:

Table 2. The bycatch index used to calculated estimates of king mackerel bycatch in the shrimp fishery in the GOM.

Year	index	cv
1972	0.066553230	0.4301025
1974	0.017384330	0.5274870
1975	0.013524104	0.5500415
1976	0.004416539	0.7127527
1977	0.002012990	0.6671636
1978	0.017956119	0.3935830
1979	0.019436585	0.5164490
1980	0.002709611	0.5300210
1981	0.011326441	0.7877621
1982	0.005642986	0.8594789
1984	0.028725144	0.5105602
1985	0.019567808	0.5093550
1986	0.007844451	0.7532812
1987	0.035841945	0.4675814
1988	0.036505835	0.4312213
1989	0.099862873	0.4062120
1990	0.079363121	0.3659730
1991	0.087475986	0.4051375
1992	0.032584129	0.3281742
1993	0.108671826	0.2404693
1994	0.105685154	0.3090870
1995	0.141439946	0.3122186
1996	0.048672359	0.3962349
1997	0.065264466	0.3548970
1998	0.061269857	0.3766006
1999	0.057232441	0.3411132
2000	0.067112351	0.3539937
2001	0.122083240	0.3483290
2002	0.061340768	0.3835260
2003	0.206568133	0.3374803
2004	0.234011050	0.3378609
2005	0.063825062	0.4307586
2006	0.150109870	0.3381382