Scup Data Update for 2014

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Fishery and Survey Data

Reported 2013 landings in the commercial fishery were 8,108 mt = 17.875 million lbs, about 73% of the commercial quota including the RSA (11,106 mt = 24.484 million lbs). Estimated 2013 landings in the recreational fishery were 2,424 mt = 5.344 million lbs, about 71% of the recreational harvest limit (3,425 mt = 7.551 million lbs). Total commercial and recreational landings in 2013 were 10,532 mt = 23.219 million lbs and total commercial and recreational discards were 1,703 mt = 3.754 million lbs, for a total catch in 2013 of 12,235 mt = 26.974 million lbs (Table 1, Figure 1).

State and Federal survey biomass index trends were variable, but most indices decreased from 2012 to 2013 (Figures 2-12). Indices of recruitment (age 0 fish) were generally lower over the last 3 years than in the previous decade (Figure 13).

Table 1. Total catch (metric tons) of scup from Maine through North Carolina. Landings include revised Massachusetts landings for 1986-1997. Commercial discards for 1981-1988 calculated as the geometric mean ratio of discards to landings numbers at age for 1989-1993. Commercial discard estimate for 1998 is the mean of 1997 and 1999 estimates. Recreational catch from MRIP (2004-2013) and MRFSS (1981-2003) adjusted by MRFSS to MRIP 2004-2011 ratio.

| Year	Commercial Landings	Commercial Discards	Recreational Landings	Recreational Discards	Total Catch
1981	9,856	4,964	3,116	59	17,995
1982	8,704	4,383	2,791	53	15,931
1983	7,794	3,925	3,353	63	15,135
1984	7,769	2,158	1,296	33	11,256
1985	6,727	4,184	3,268	60	14,239
1986	7,176	2,005	6,223	97	15,501
1987	6,276	2,537	3,323	42	12,178
1988	5,943	1,657	2,289	35	9,923
1989	3,984	2,229	2,980	43	9,237
1990	4,571	3,909	2,220	42	10,742
1991	7,081	3,530	4,336	87	15,034
1992	6,259	5,668	2,366	52	14,345
1993	4,726	1,436	1,714	31	7,907
1994	4,392	807	1,409	41	6,649
1995	3,073	2,057	720	14	5,864
1996	2,945	1,522	1,156	22	5,645
1997	2,188	1,843	642	9	4,682
1998	1,896	3,331	469	16	5,712
1999	1,505	4,819	1,012	7	7,343
2000	1,207	2,352	2,919	61	6,539
2001	1,729	1,499	2,285	184	5,697
2002	3,173	5,636	1,944	152	10,905
2003	4,405	2,153	4,549	176	11,283
2004	4,231	893	3,278	182	8,584
2005	4,266	662	1,215	270	6,413
2006	4,062	1,387	1,681	426	7,556
2007	4,196	1,859	2,085	346	8,486
2008	2,351	2,879	1,713	287	7,229
2009	3,717	1,675	1,462	211	7,065
2010	4,855	2,108	2,715	318	9,996
2011	6,819	1,913	1,632	173	10,537
2012	6,751	2,152	1,842	231	10,976
2013	8,108	1,477	2,424	226	12,235
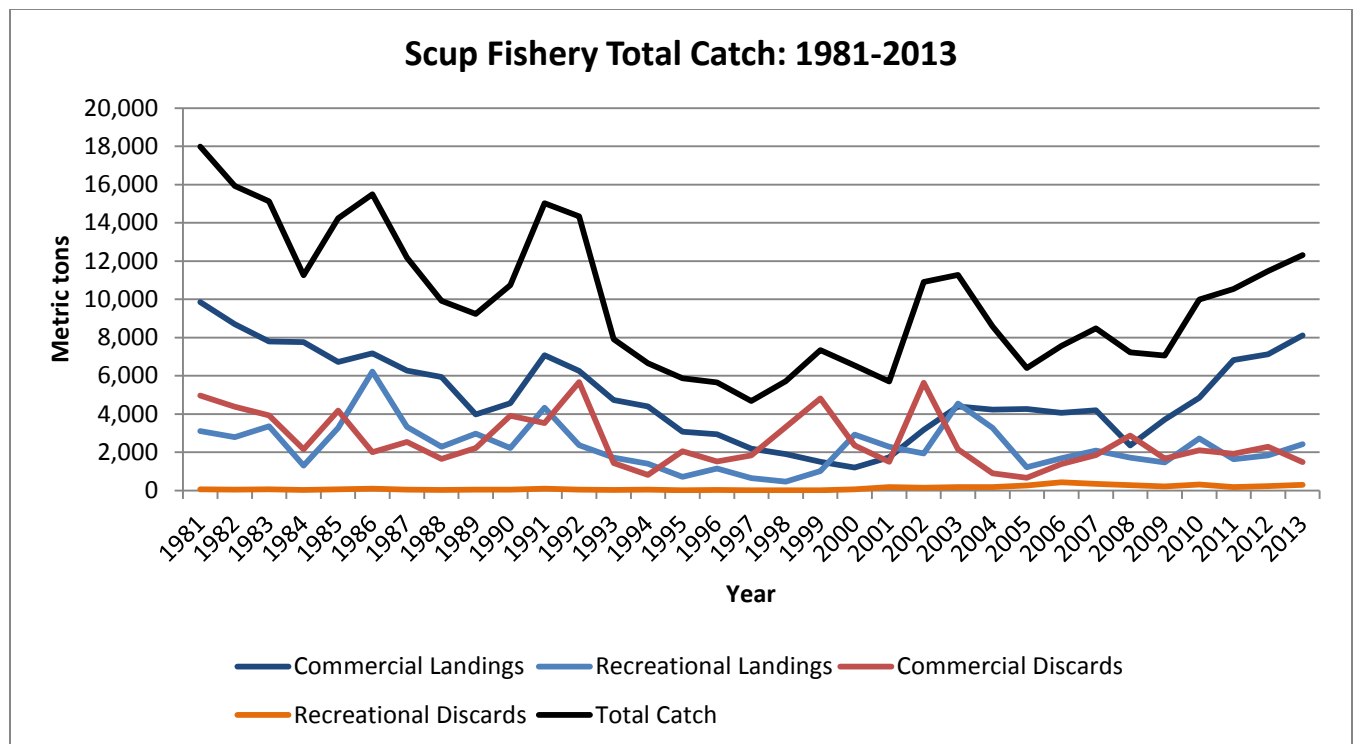
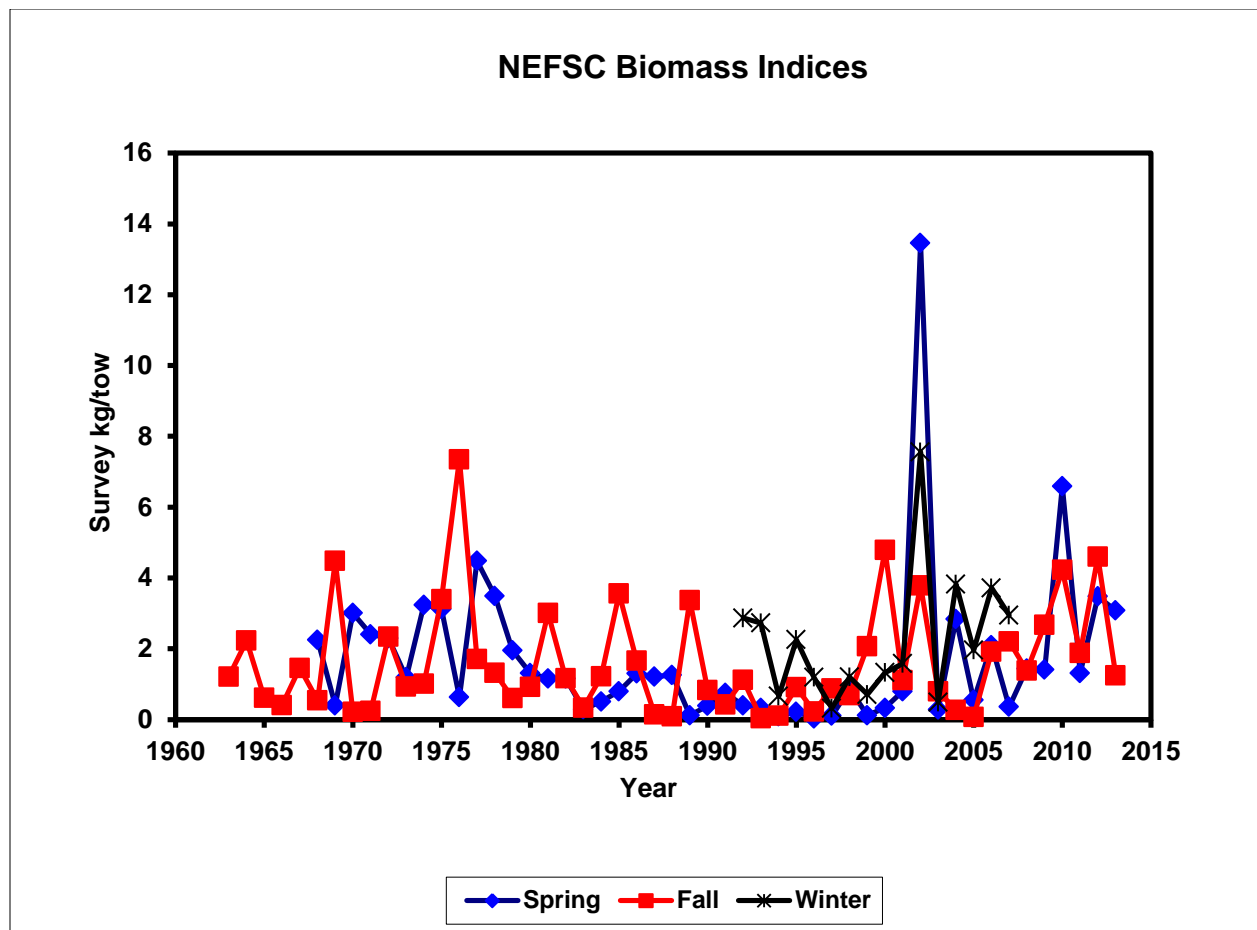Figure 1. Scup fishery total catch.

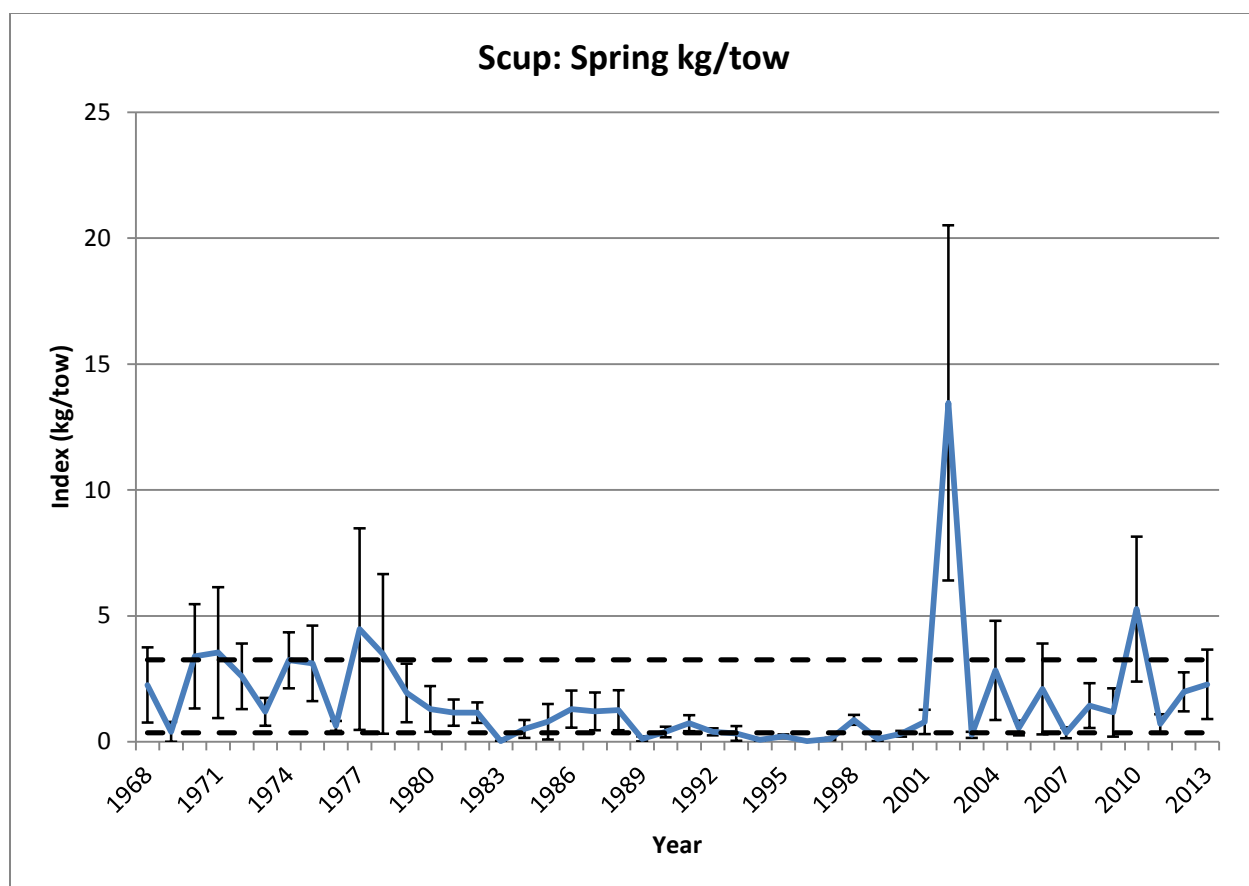Figure 2. NEFSC trawl survey biomass indices for scup.

Figure 3. NEFSC spring trawl survey biomass indices for scup. Whiskers around each annual index represent +/- one standard deviation. Dashed lines represent 65% confidence intervals around the 2004-2011 mean, a period when the stock was estimated to be at or above SSBMSY and not experiencing overfishing.
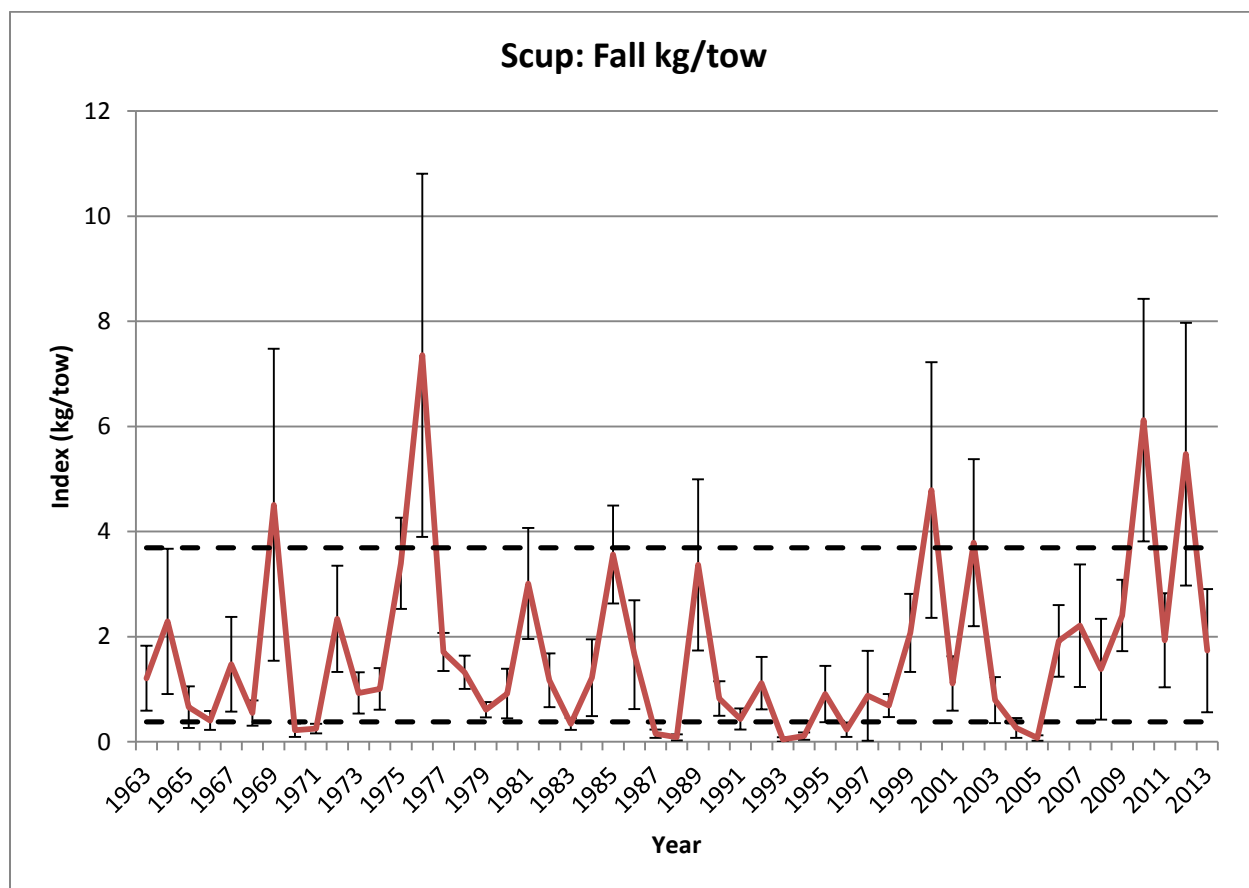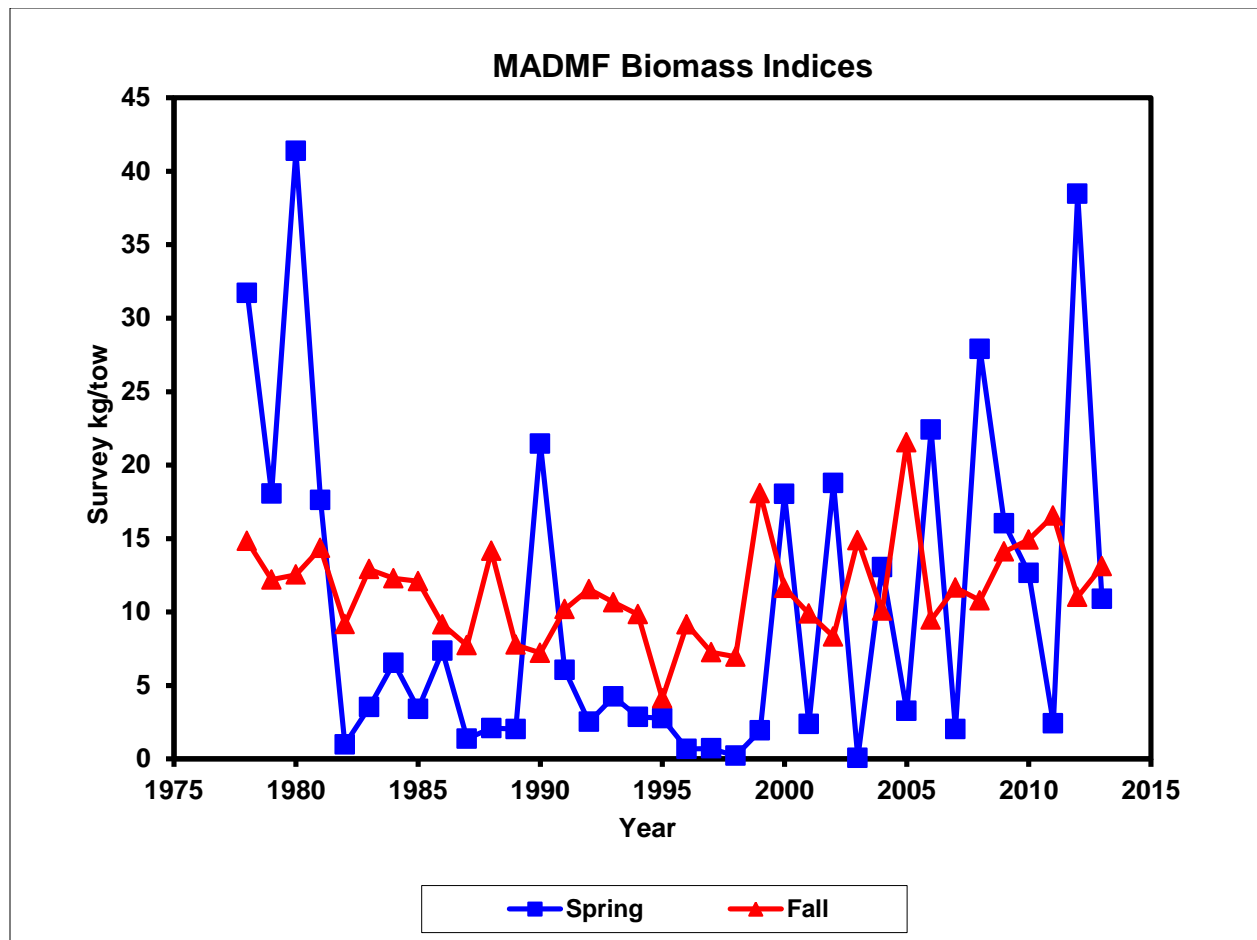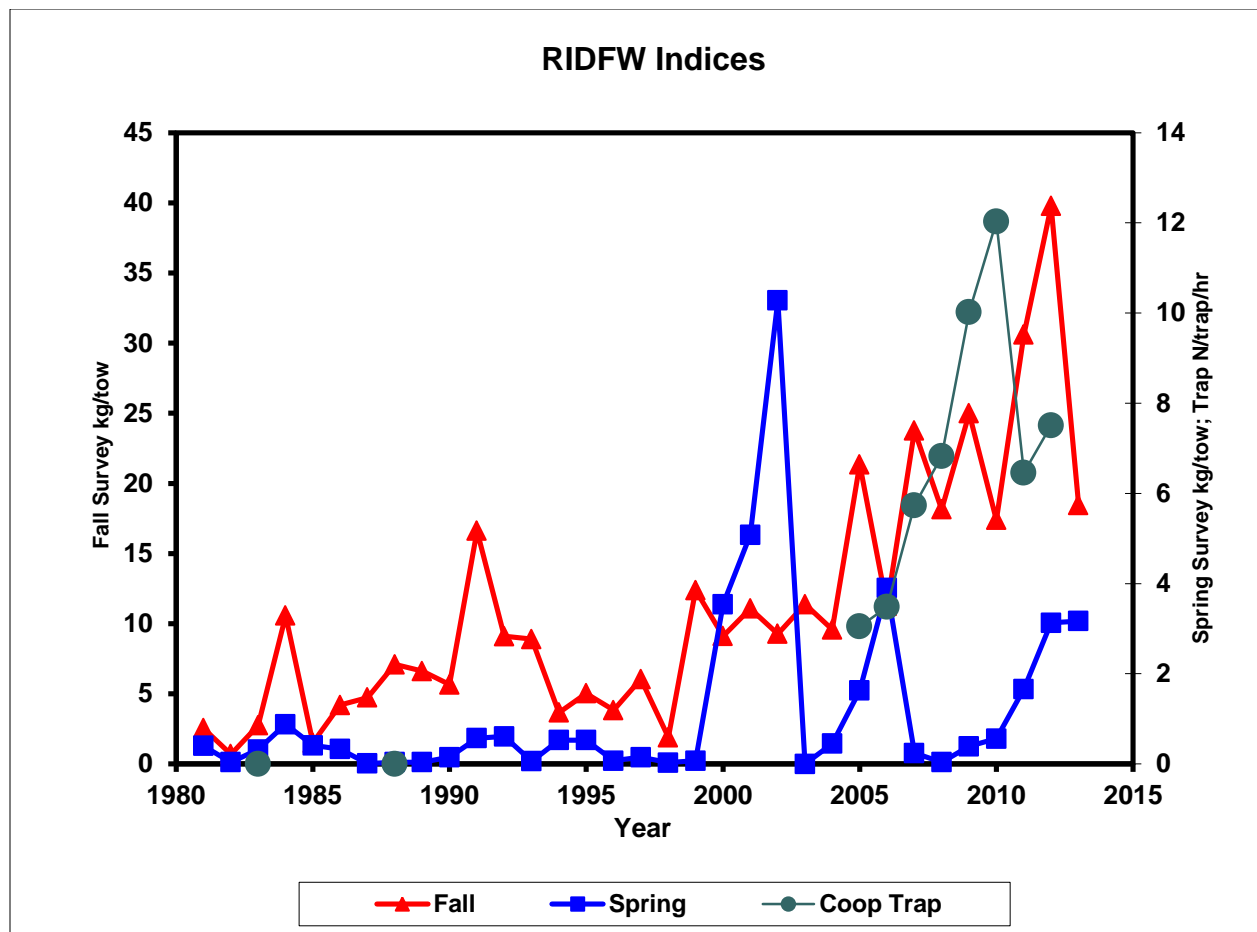
Figure 4. NEFSC fall trawl survey biomass indices for scup. Whiskers around each annual index represent +/- one standard deviation. Dashed lines represent 65% confidence intervals around the 2004-2011 mean, a period when the stock was estimated to be at or above SSBMSY and not experiencing overfishing.

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Figure 5. MADMF trawl survey indices for scup.

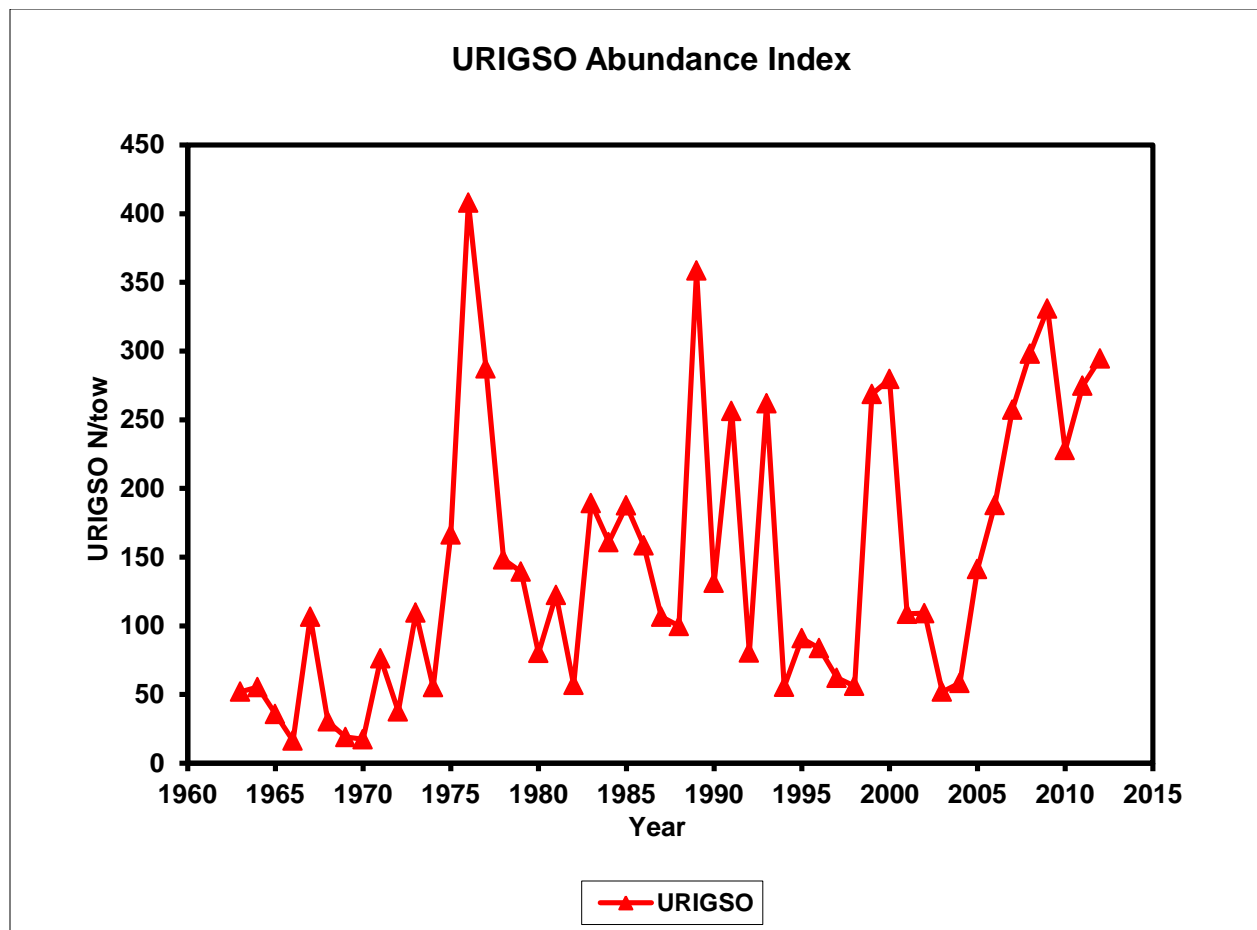Figure 6. RIDFW trawl and trap survey indices for scup. The Cooperative trap survey ended in 2012.

Figure 7. URIGSO trawl survey indices for scup. 2013 indices not available.
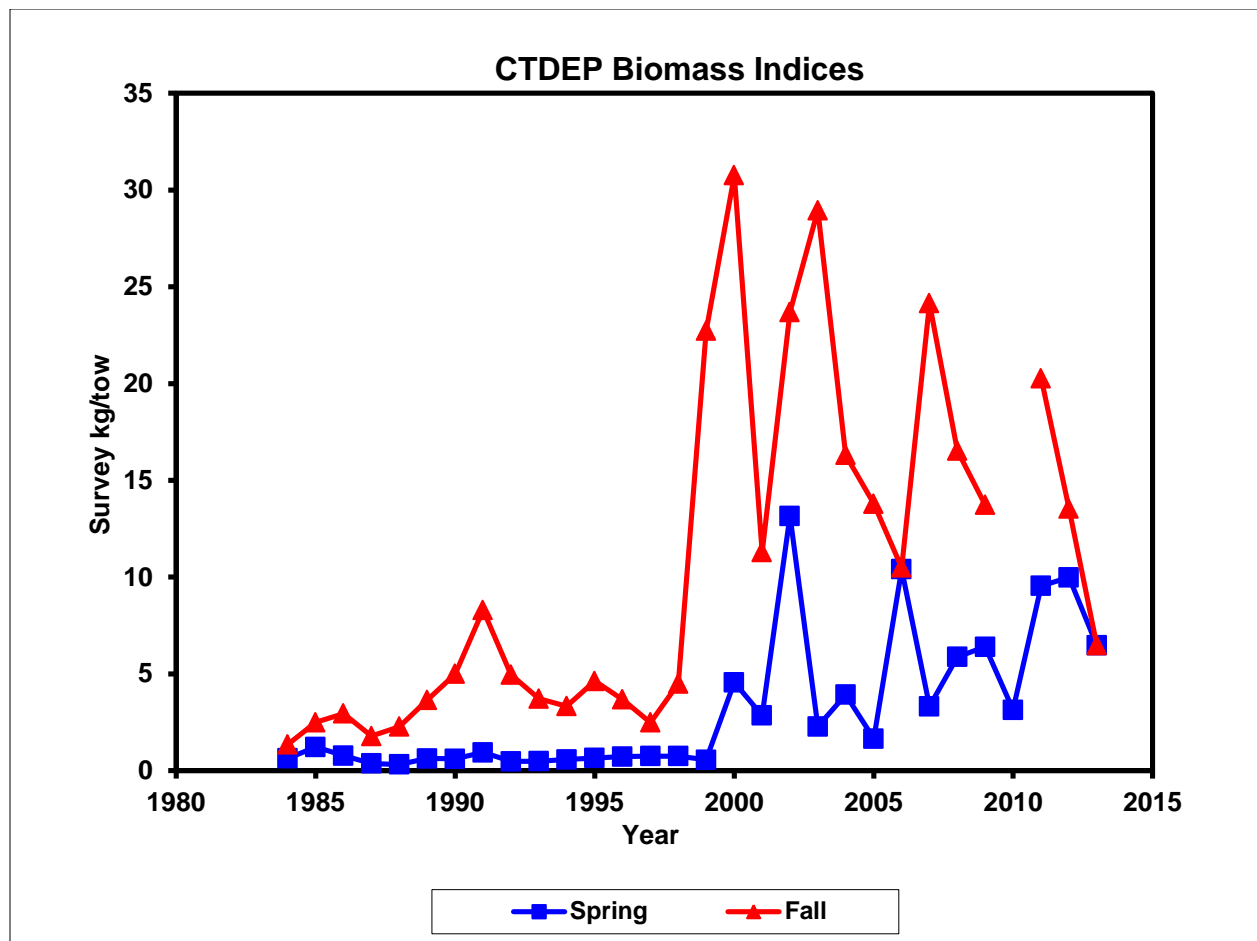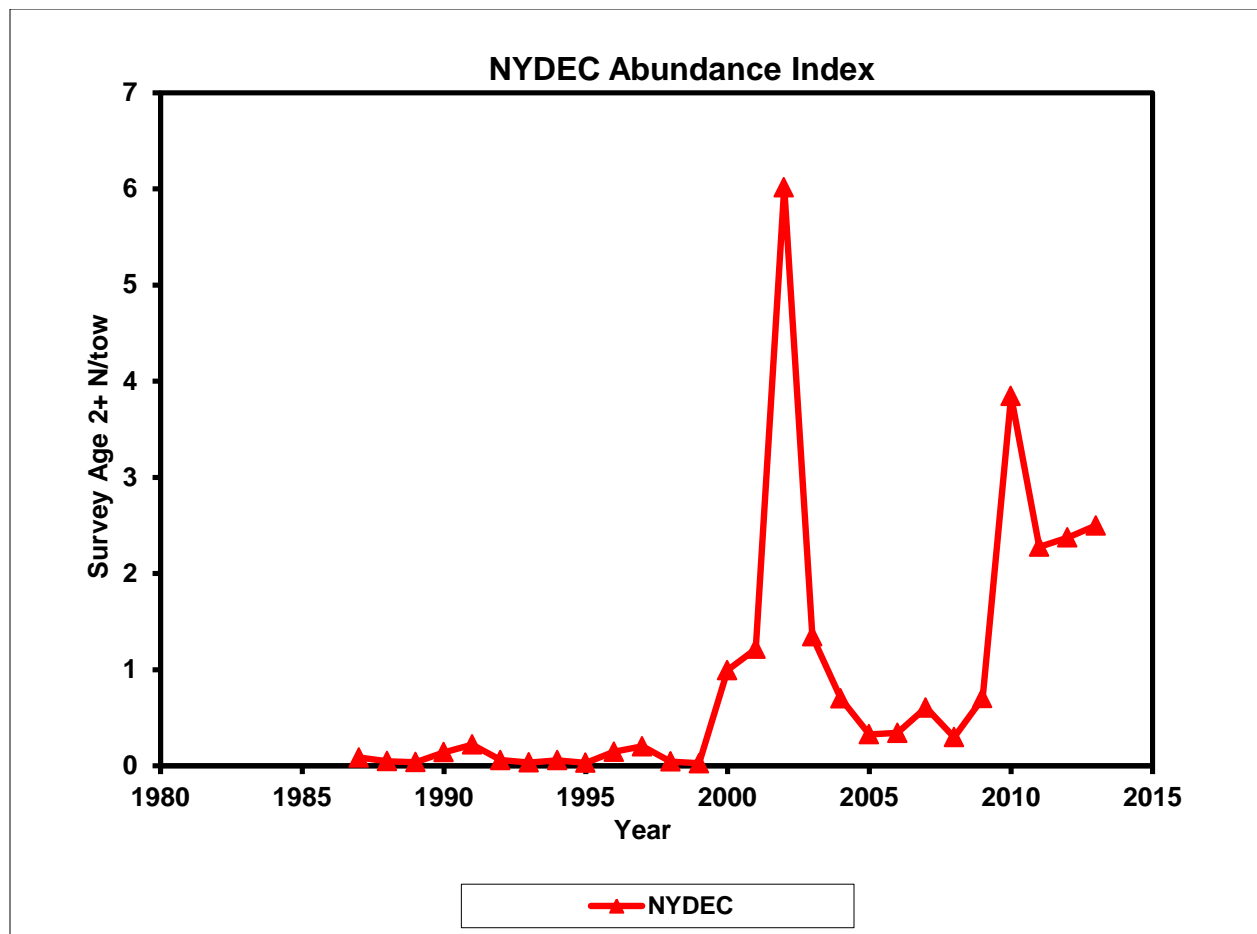
Figure 8. CTDEP trawl survey indices for scup.

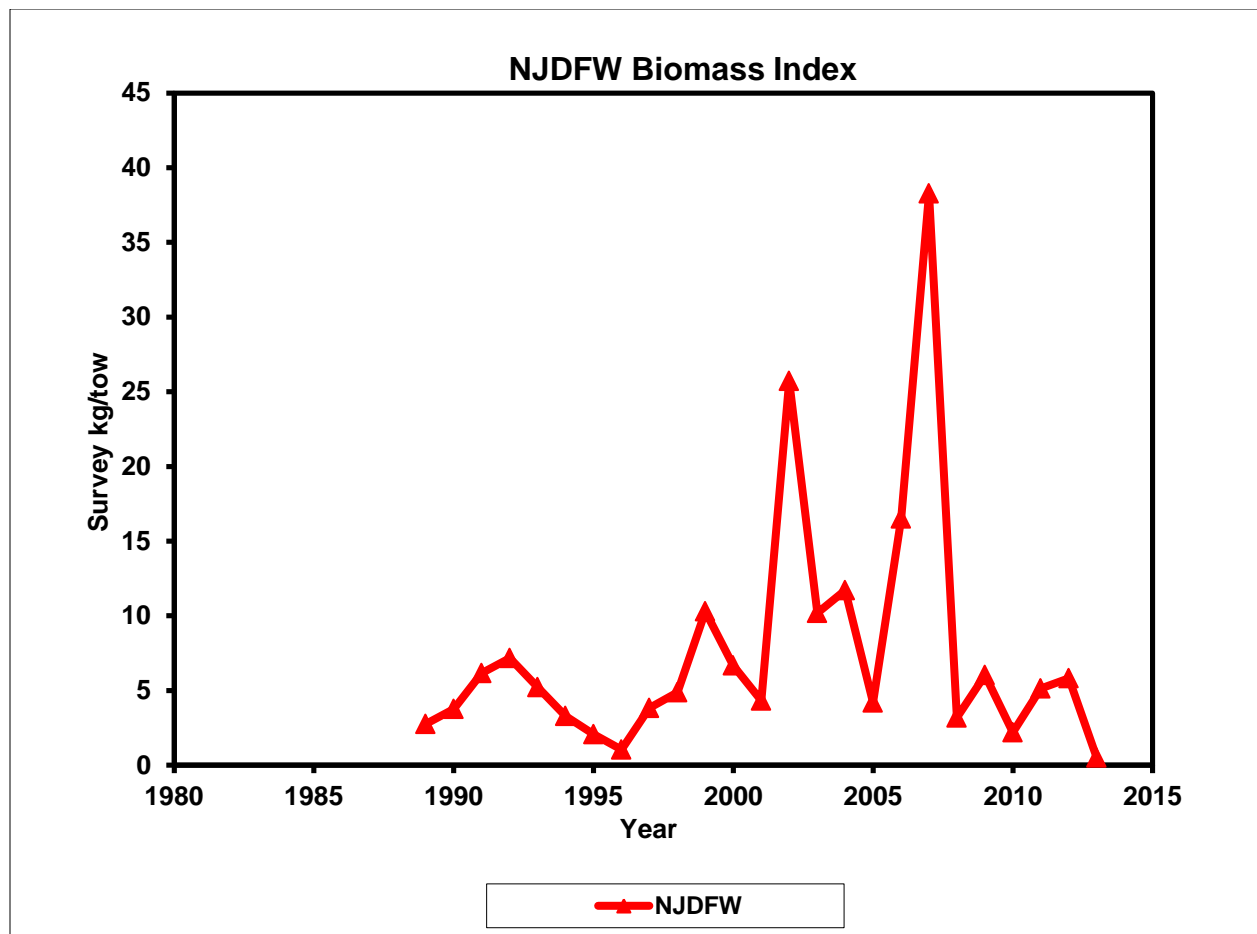Figure 9. NYDEC trawl survey indices for scup.

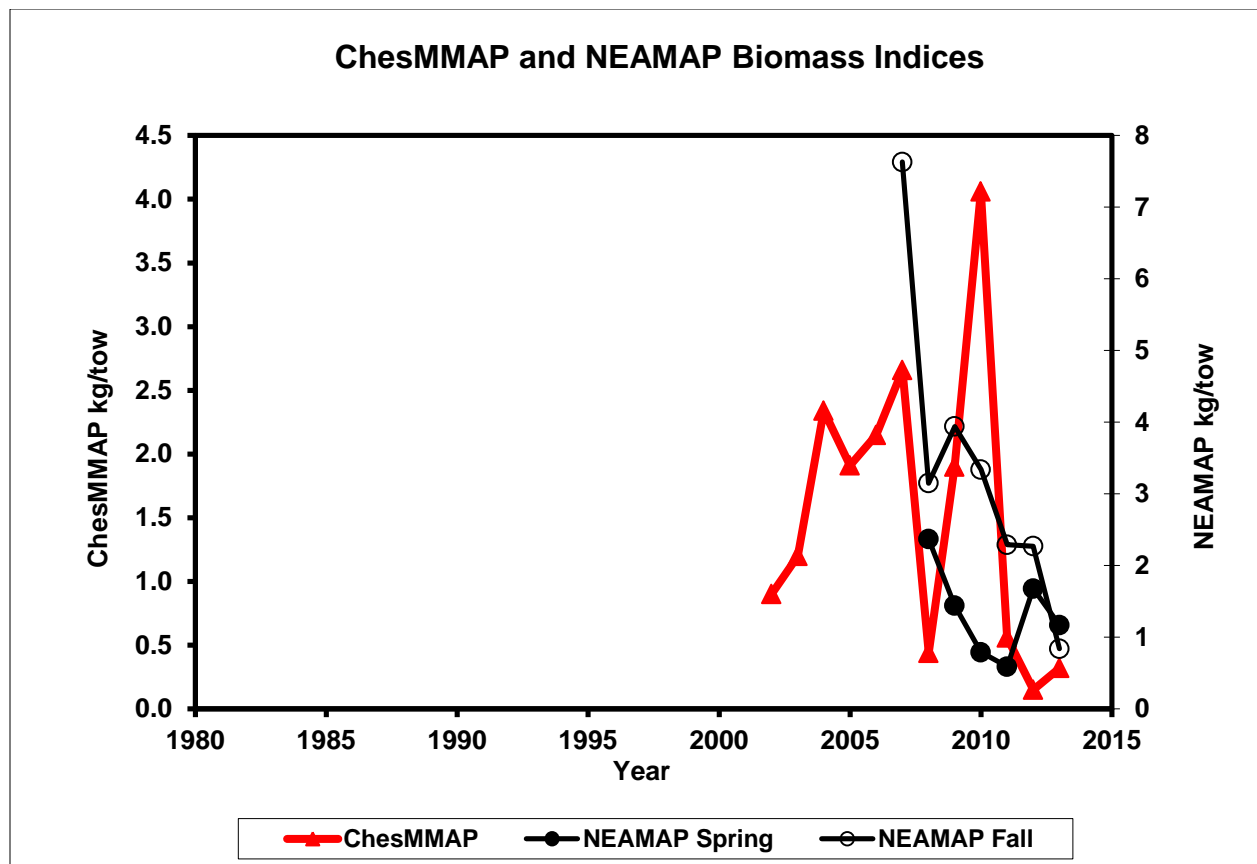Figure 10. NJDMF trawl survey indices for scup.

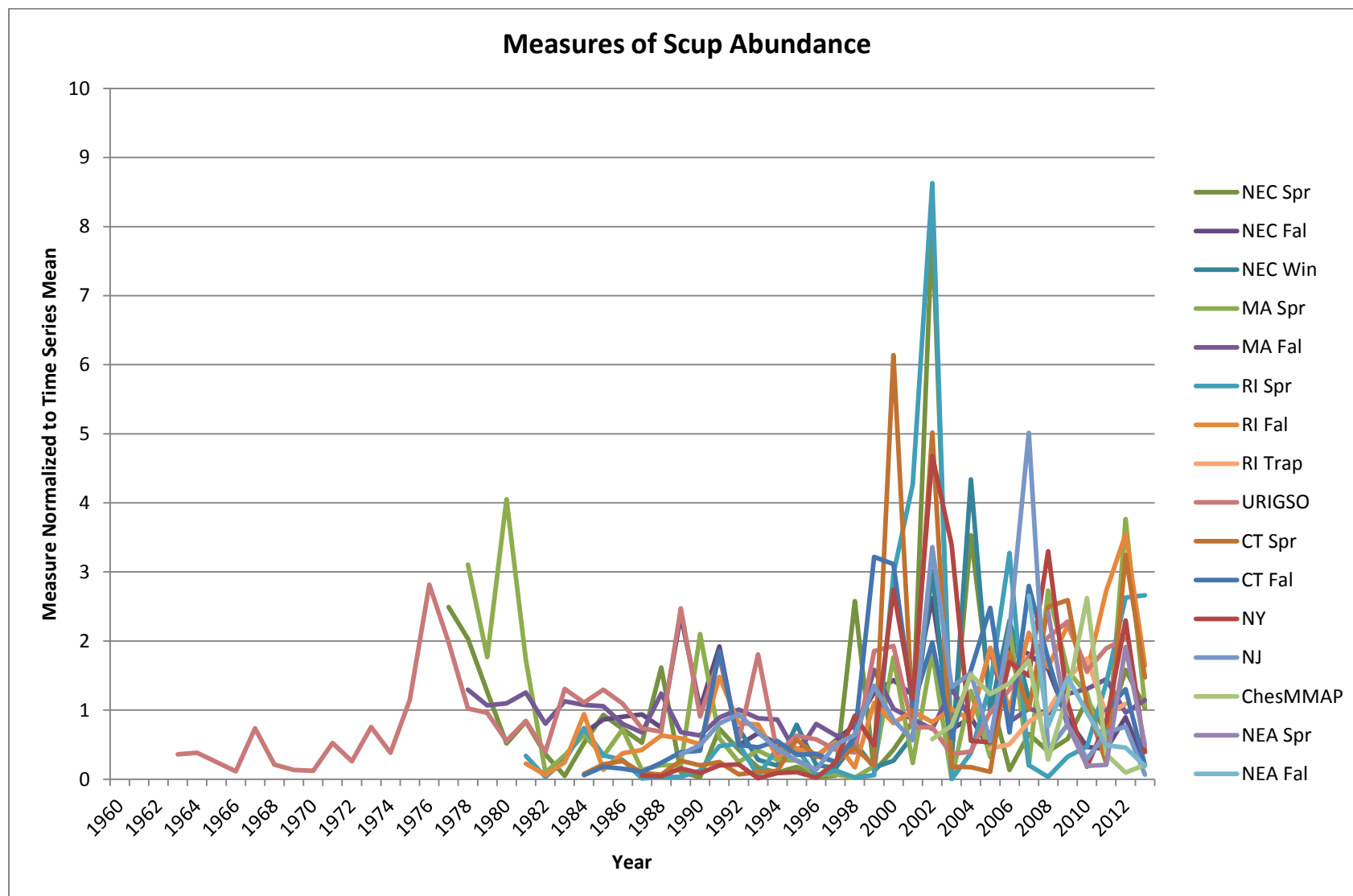Figure 11. VIMS (ChesMMAP and NEAMAP) trawl survey indices for scup.

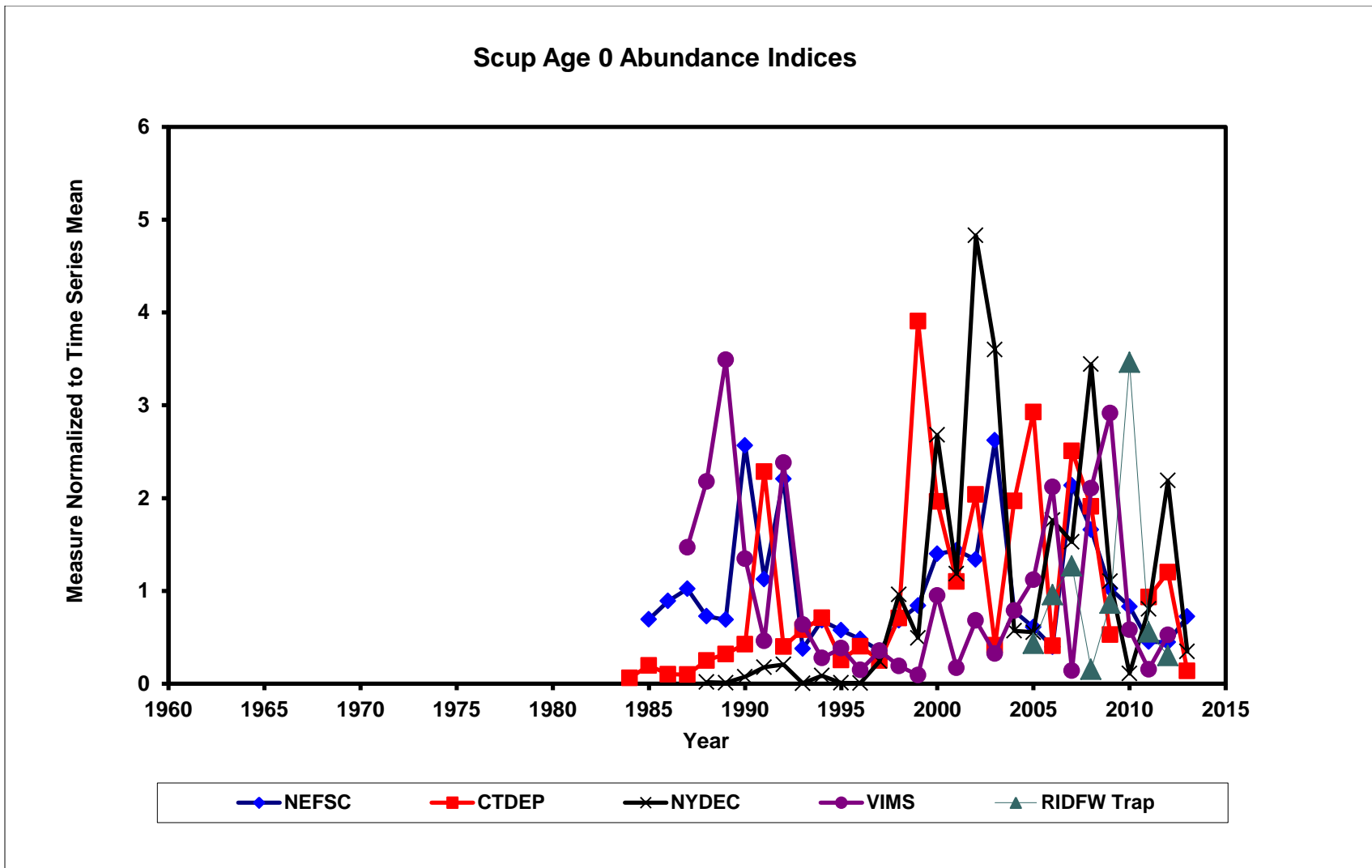Figure 12. Measures of scup aggregate numeric abundance. Indices normalized to time series means.

Figure 13. Measures of scup age 0 abundance. Indices normalized to time series means.