

Summer Flounder 2019 Specifications



SSC July 18, 2018

Overview

- No 2019 specifications in place for summer flounder; required by January 1, 2019
- Benchmark assessment in development for November 2018 SARC
- Objective: develop <u>interim 2019</u>
 <u>specifications</u> for likely revision in Spring 2019



Stock Status



- Last benchmark assessment: SAW/SARC 57 (2013)
 - Age-structured assessment program (ASAP)
- 2015 and 2016: assessment updates
- 2014, 2017 and 2018: data updates



Stock Status: 2016 Update



SSB

- 2015 SSB = 36,240 mt
- 58% of $SSB_{35\%} = SSB_{MSY} = 62,394$ mt
- 16% above MSST = 1/2 SSB_{35%} = 31,197 mt
- Not overfished in 2015

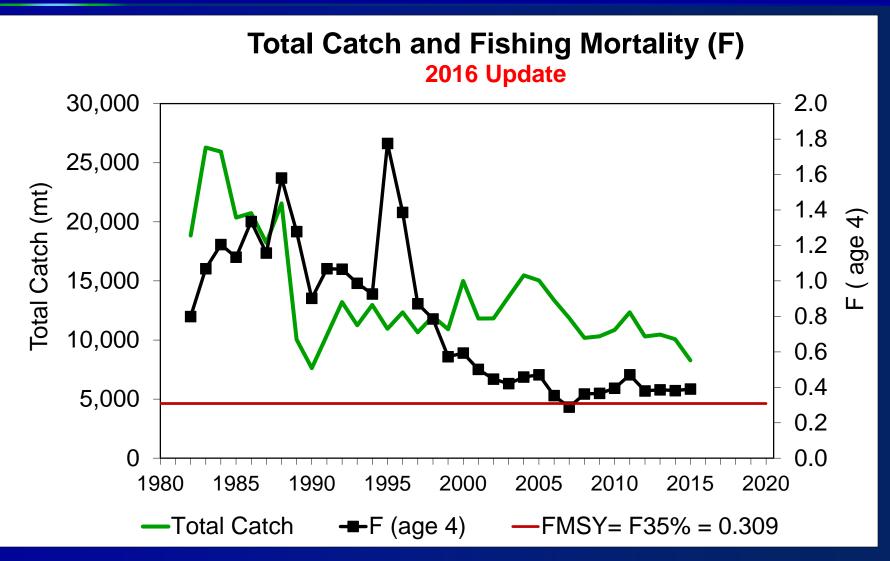
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- 2015 F = 0.390
- 26% above $F_{35\%} = F_{MSY}$ proxy = 0.309
- Overfishing occurring in 2015



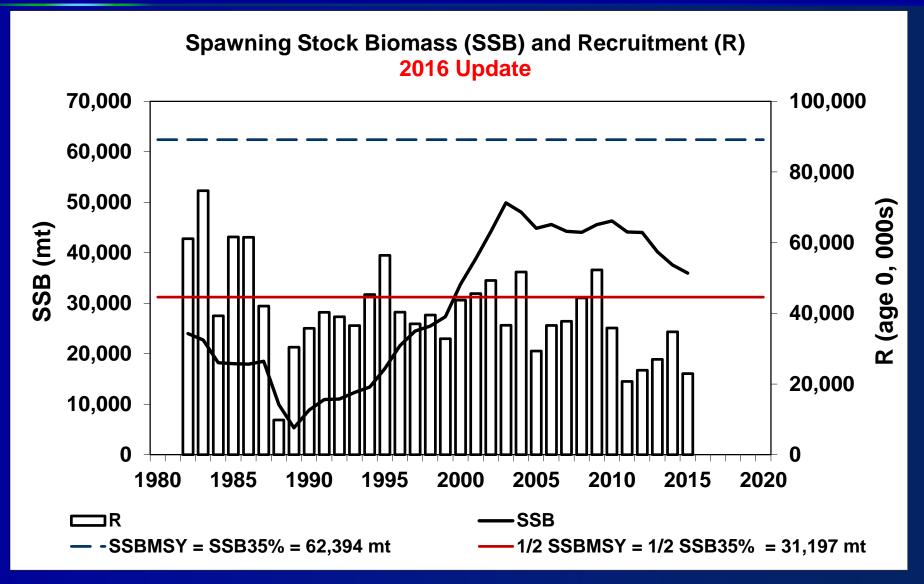
Fishing Mortality



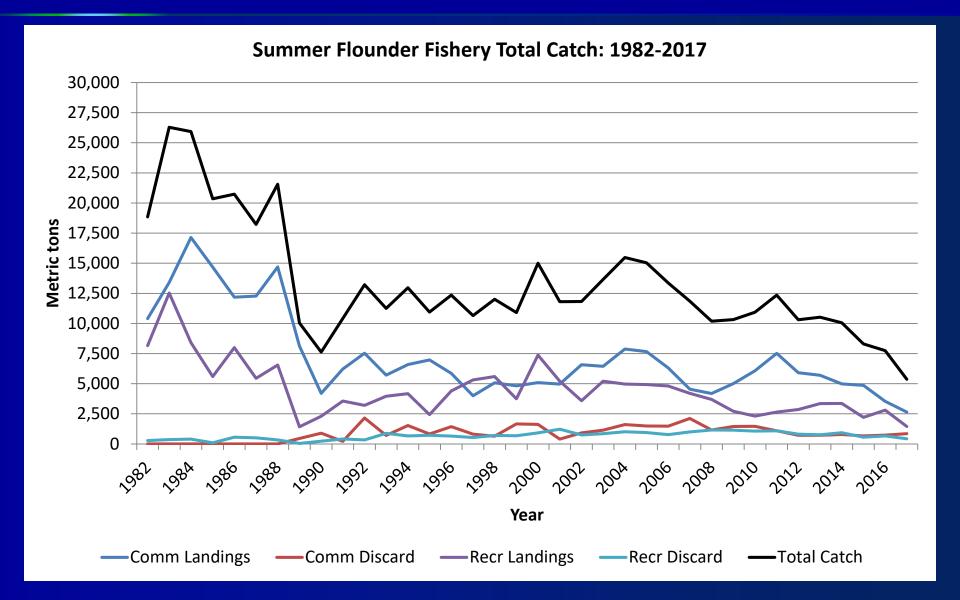


SSB and Recruitment



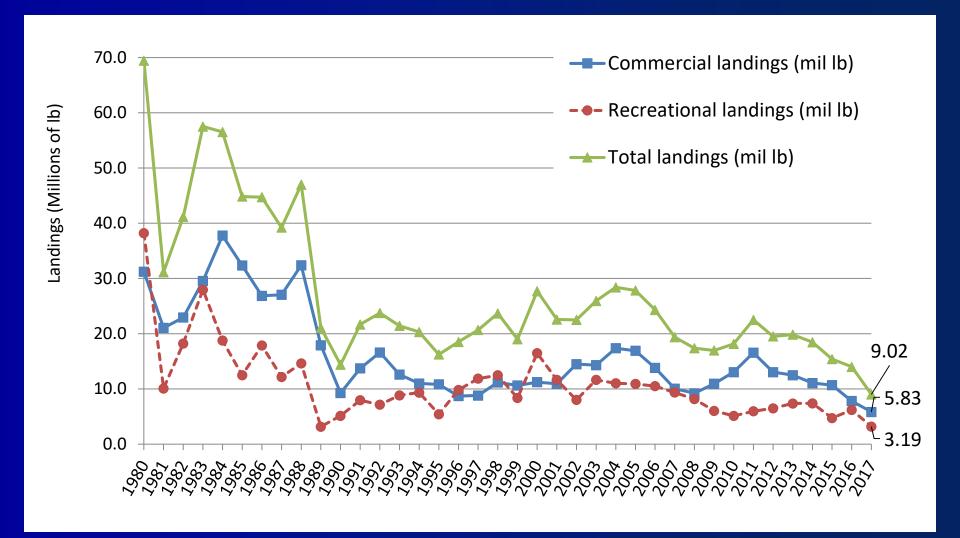


Total Catch



Landings

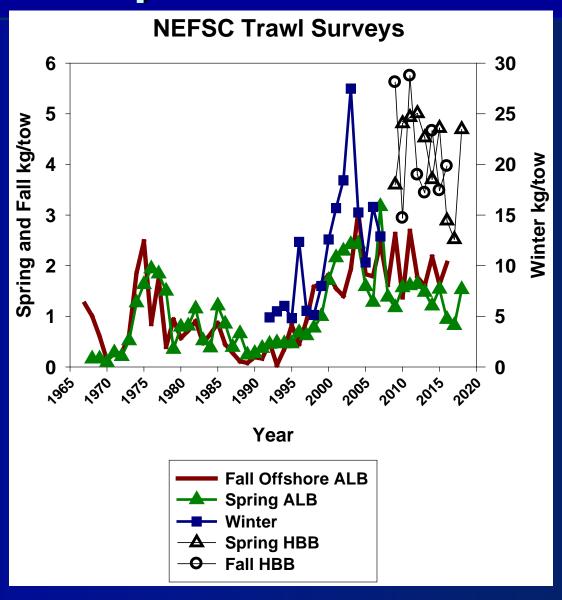


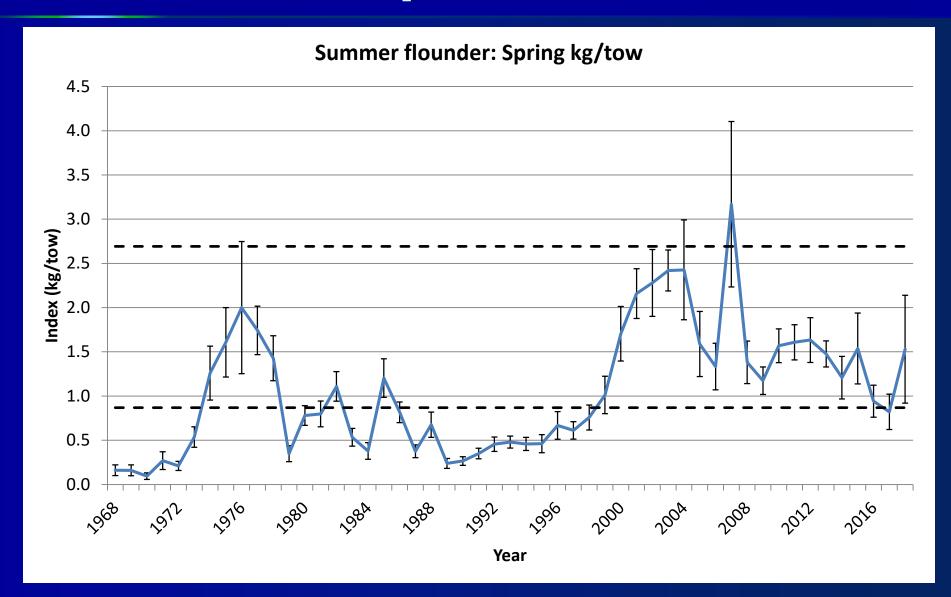


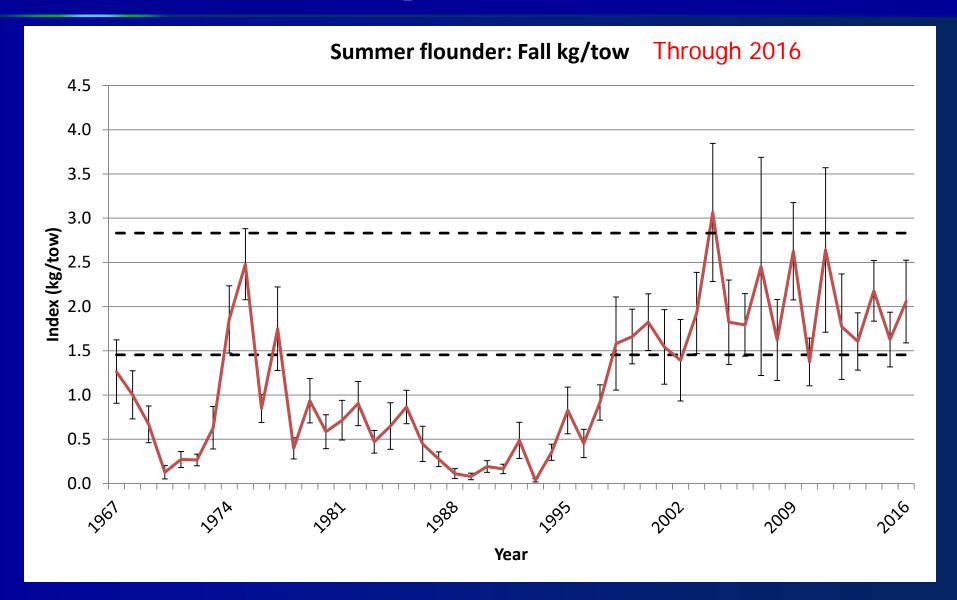
Fishery Performance

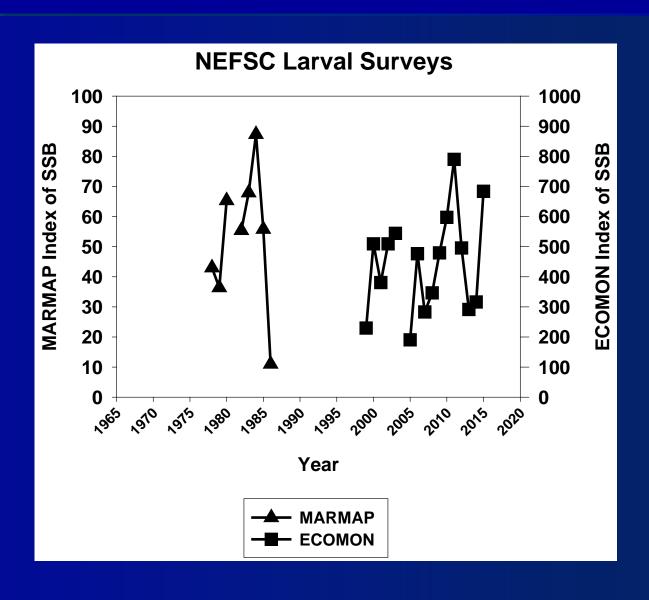


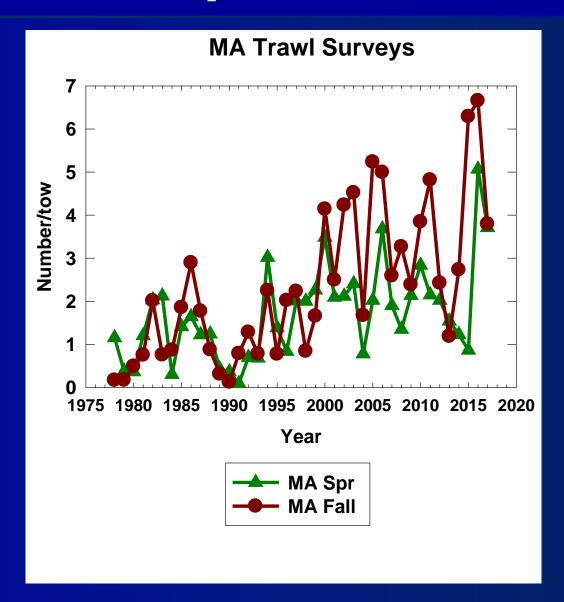
Year	Comm. Landings (mil lb)	Comm. Quota (mil lb)	Comm. % Overage (+)/ Underage(-)	Rec. Landings (mil lb)	Rec. Harvest Limit (mil lb)	Rec. % Overage (+)/ Underage(-)
2013	12.44	11.44	+9%	7.36	7.63	-4%
2014	11.00	10.51	+5%	7.39	7.01	+5%
2015	10.68	11.07	-4%	4.72	7.38	-36%
2016	7.81	8.12	-4%	6.18	5.42	+14%
2017	5.83	5.66	+3%	3.19	3.77	-15%
5-yr Avg.			+2%			-7%

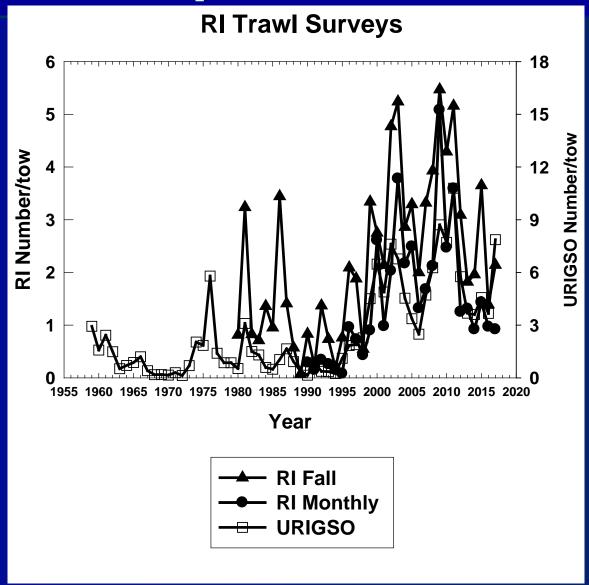


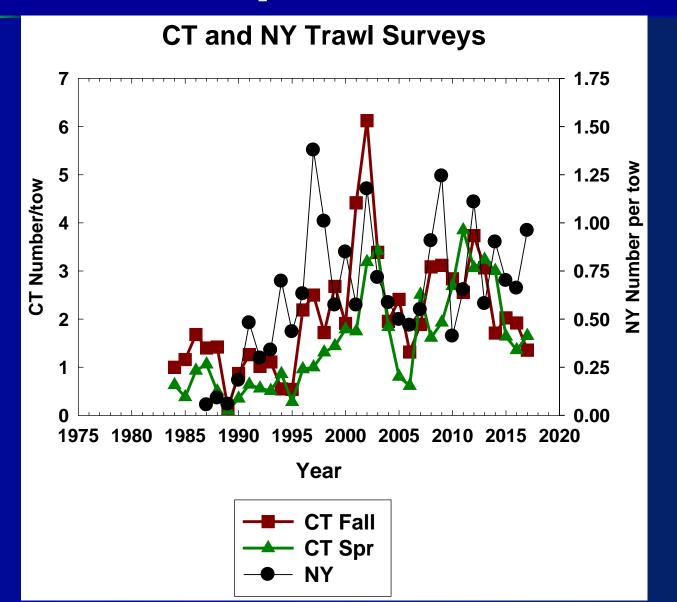


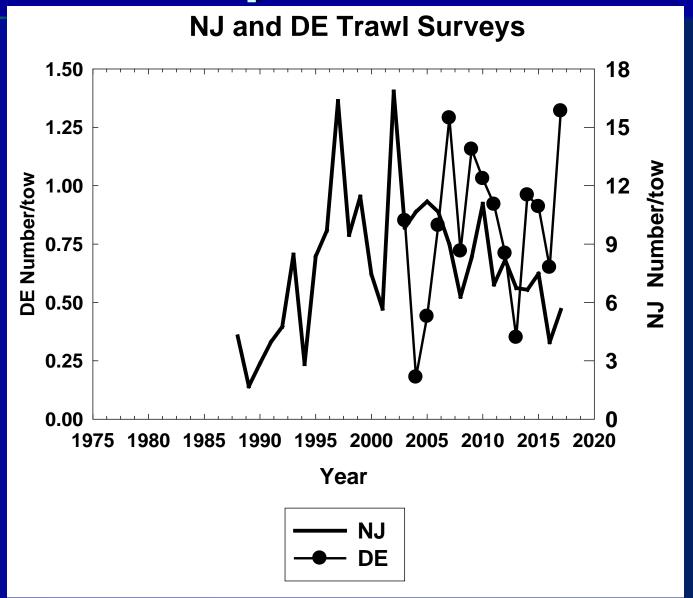


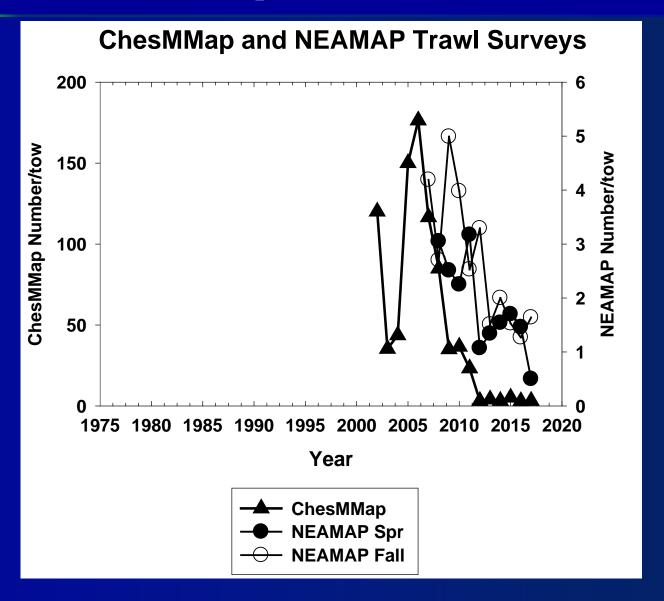


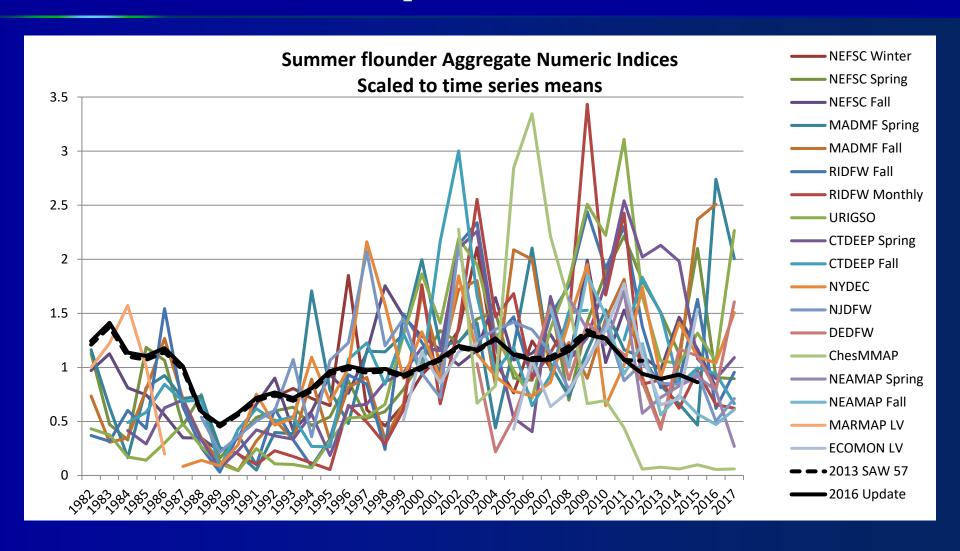


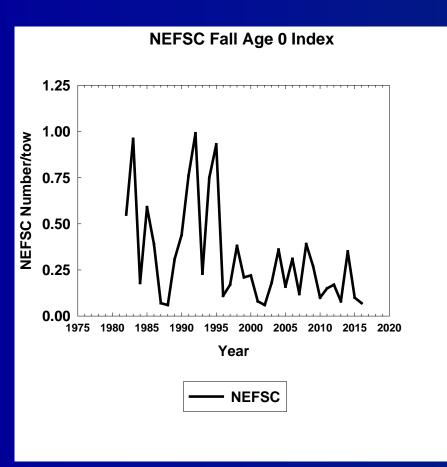


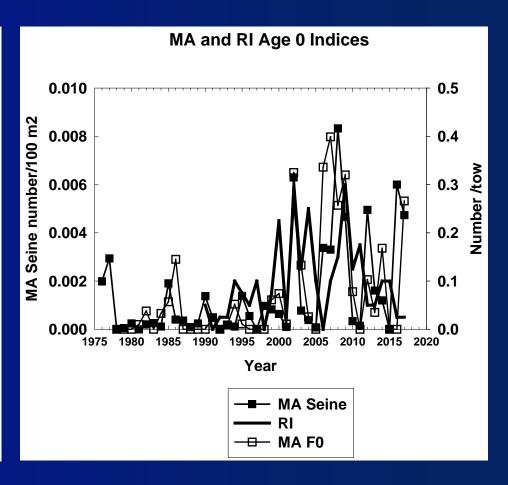


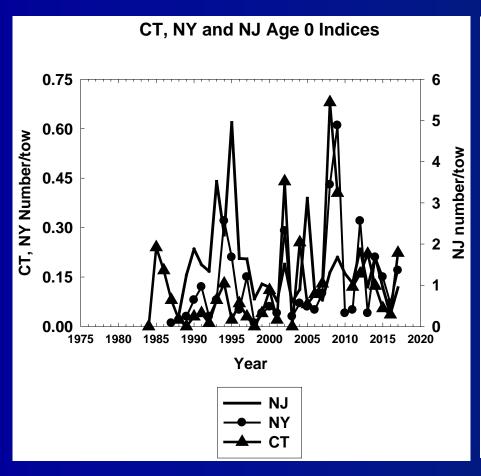


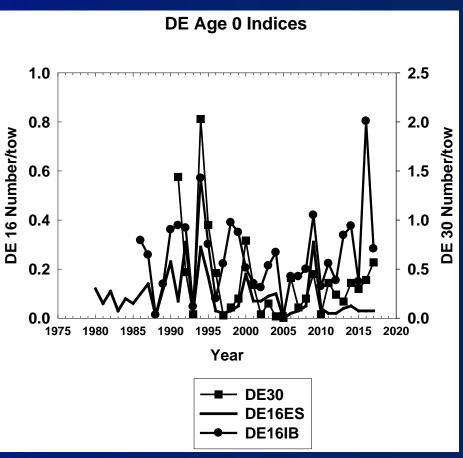


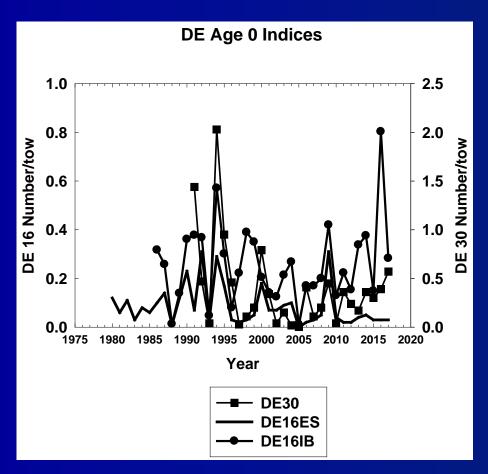


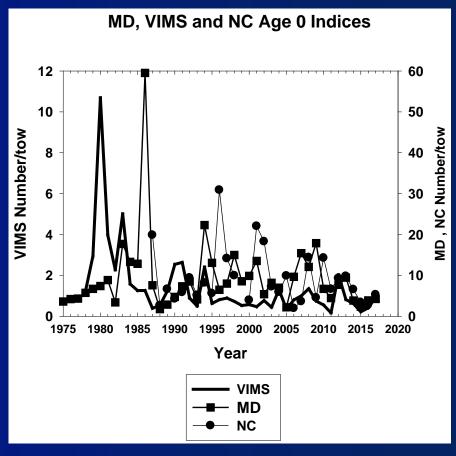


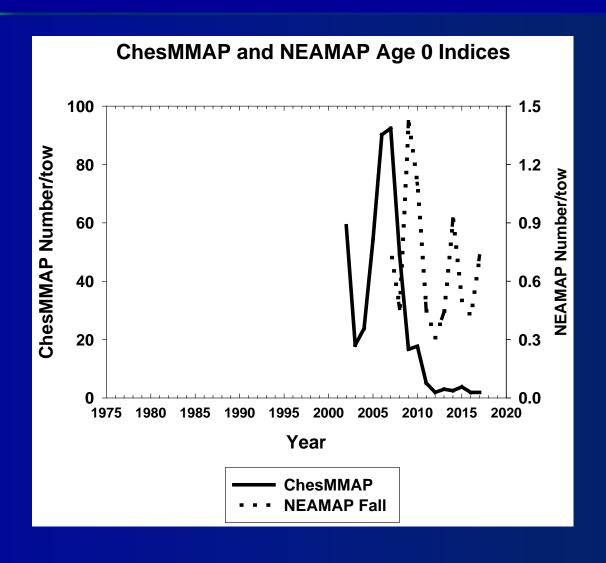


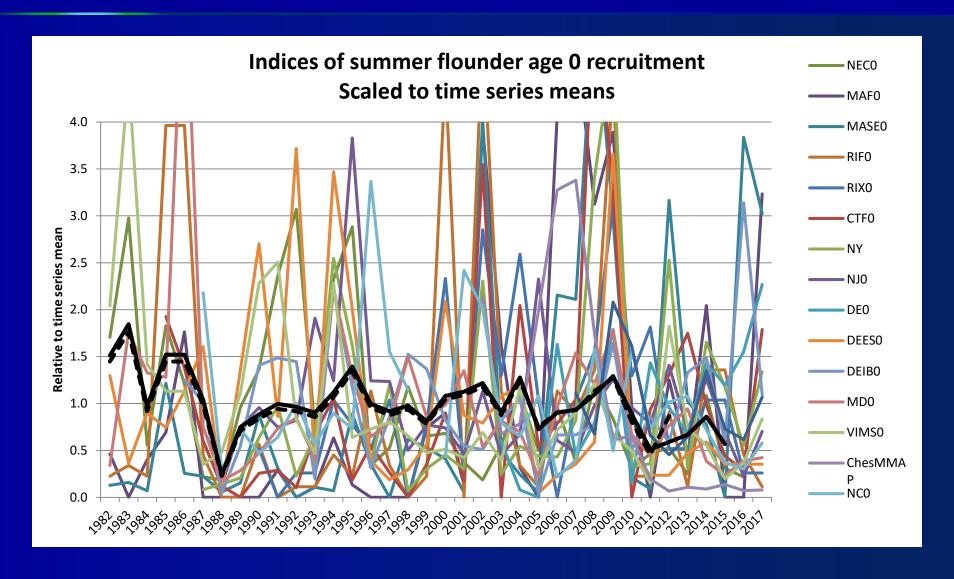












AP Fishery Performance Report <



General Management Issues

- Request Council/SSC presence at AP meetings
- MRIP data fundamentally flawed; many want mobile app reporting
- Stability/predictability in specifications important
- Concerns with trawl surveys
- Support for return of RSA



AP Fishery Performance Report



Stock Status

- "Need to look into numbers rather than at them" - 2015 catch was better than shown by data.
- One observation of seeing more small (likely juvenile) fish lately
- Reference points need to be addressed ASAP the biomass reference point is unattainable
- Concern that observers are not capturing useful data as they are too concerned with turtles



AP Fishery Performance Report



Environmental and Ecological Issues

- Climate change needs to be considered more thoroughly in terms of area/timing of trawl surveys
 - Inshore areas need to be better addressed (e.g., Nantucket Shoals and Buzzard's Bay)
 - Larger fish are observed inshore more often these days







Market and Economic Issues

- Less overlap between state open seasons = better price
- IFQ quota holders in MD make more money leasing quota than fishing it
- Not enough quota along coast to keep everyone going
- Derby conditions occur when fishery opens, driving price down



AP Fishery Performance Report



Research Recommendations

- Investigate ocean ranching of juvenile fluke to improve recruitment (as Japan has done)
- Several support reviving RSA or similar program
- More collaborative research, with focus on species in apparent decline like summer flounder



Advisor Written Comments



- Additional support for RSA program
- Additional comments regarding ocean ranching/stock enhancement
- Support for commercial landings limits instead of possession limits (transit to offload catch in multiple states)



Advisor Written Comments



- Different NJ recreational regulations for Delaware Bay are helpful, though fishing businesses in southern NJ are still suffering
- Fluke stocks appear to be at a low level in DE Bay
- Suggest additional research on both genetics and migration patterns; could help explain stock declines and/or shifts



Advisor Written Comments



- Must stop removing only large females in recreational fishery (support for slot limits)
- Rec. fishing in CT waters of Long Island Sound has been "off" in recent years
 - Fluke fishing ends earlier in the year than it used to
- Private anglers underrepresented in the AP/public input process



Prior SSC Recommendations



- July 2016: SSC recommended twoyear ABCs (2017-2018) based on 2016 assessment update
- This revised previous multi-year recommendations (2015 3-yr phasedin reduction approach)
 - Reverted to standard application of risk policy



Prior SSC Recommendations



- SSC-modified OFL probability distribution
- 2018: Typical life history; Proj. 2017
 B/B_{MSY} = 70%; Lognormal distribution of OFL with CV = 60%
 - 2018 ABC = 13.23 million lb = 5,999 mt (P*=0.267)



2019 OFL Projections

- See 2018 data update
- Uses 2016 assessment update outputs with realized 2016 and 2017 catch
- Assumes 100% of 2018 ABC (5,999 mt) is caught
- Resulting OFL associated with F_{MSY} = 0.309 is 20.60 mil lb (9,343 mt)



Staff ABC Recommendation



Assumes:

- Lognormal distribution of OFL with 60% CV
- Projected 2018 SSB = 76% of SSB_{MSY}
- Typical life history
- Resulting 2019 ABC = 15.41 mil lb = 6,988 mt



2019 Staff ABC Recommendation

Memo Table 3

OFL	OFL ABC		F	P*
20.60 mil lb (9,343 mt)	15.41 mil lb (6,988 mt)	75%	0.225	0.300



2019 Staff Recommendation with Comparison to 2018

	20	18	2019		
	Mil lb.	mt	Mil lb.	mt	
OFL	18.24	8,272	20.60	9,343	
ABC	13.23	5,999	15.41	6,988	