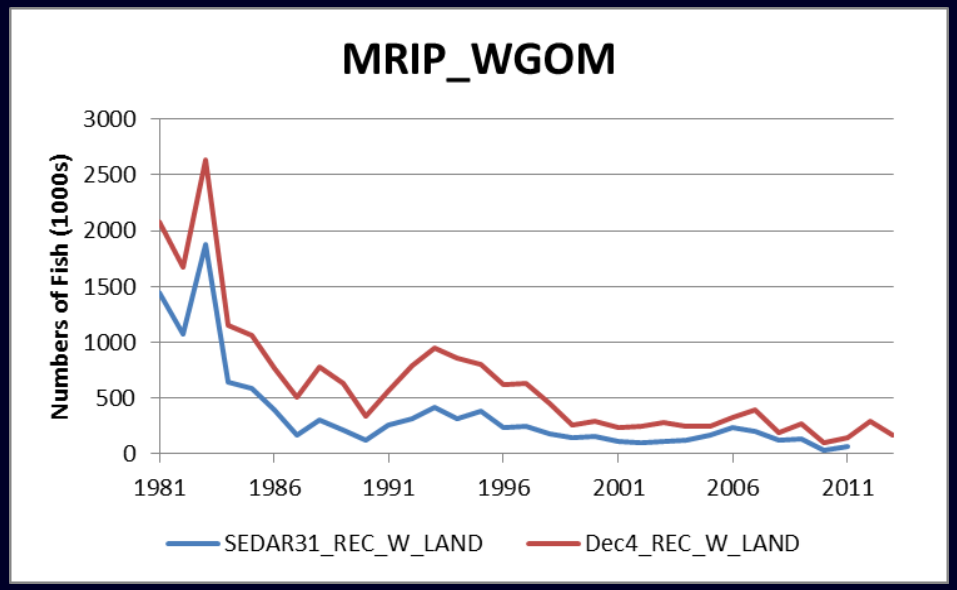
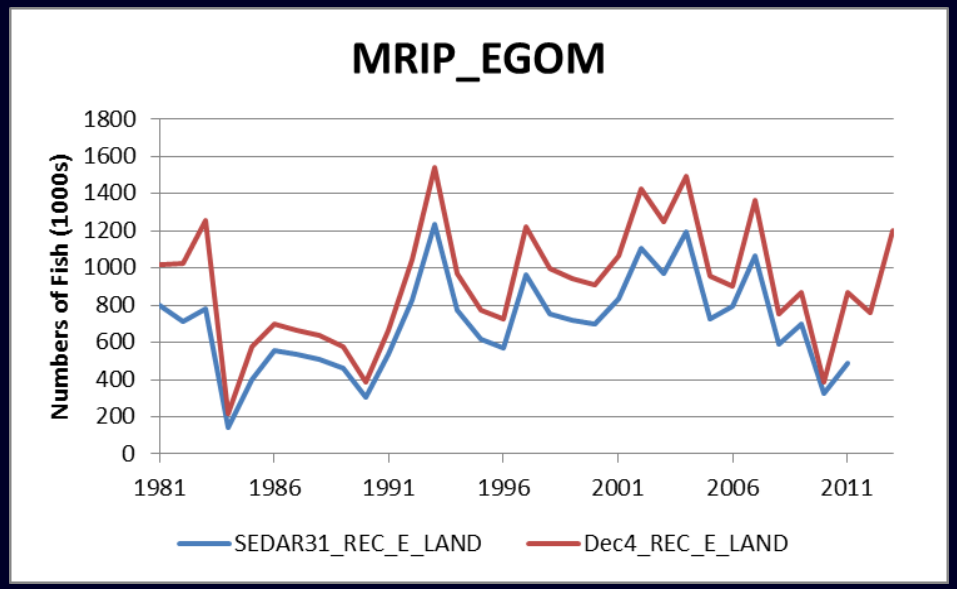
RS Update Assessment: MRIP Concerns

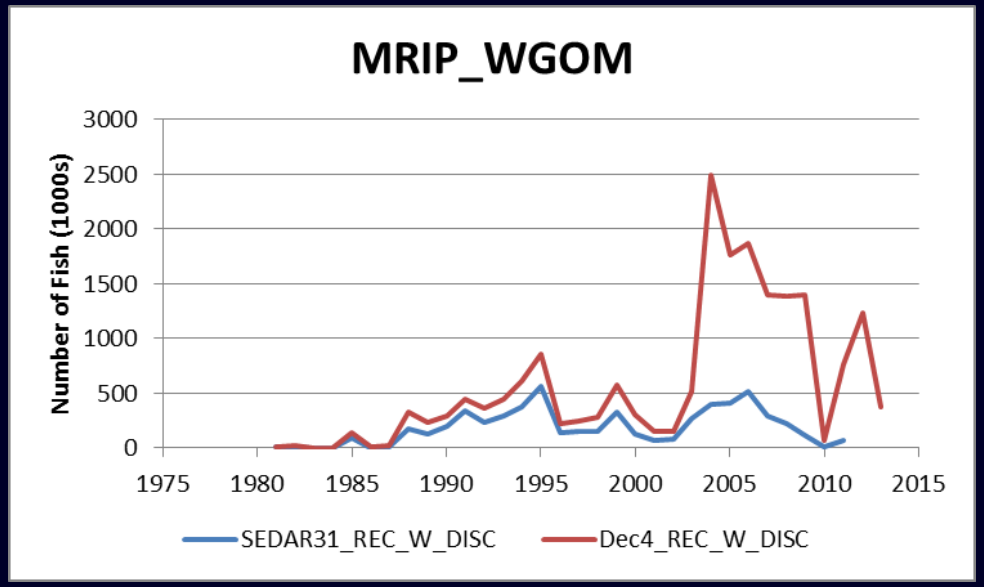
Figure 1a and 1b. Effect of Rescaling MRIP Estimates - Landings

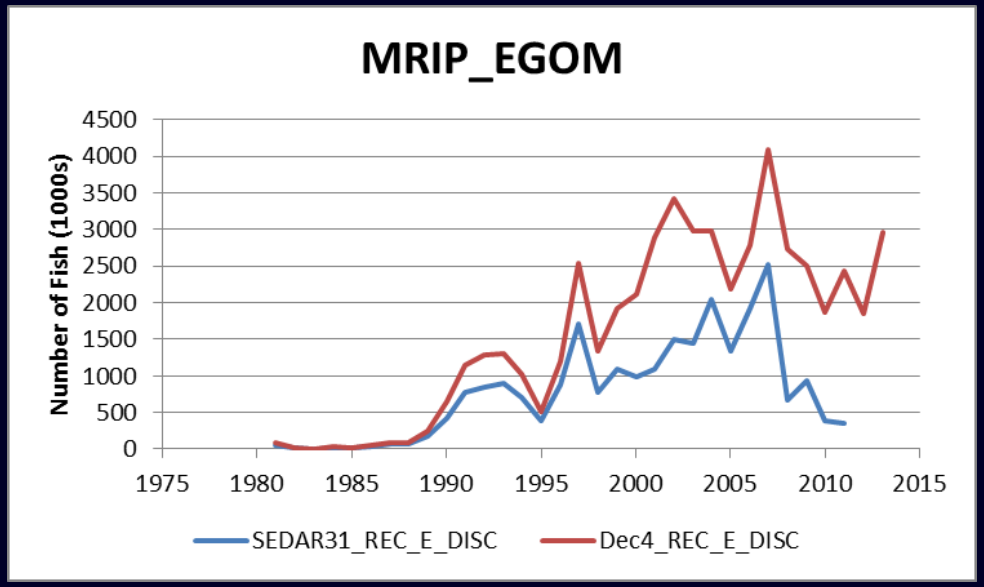




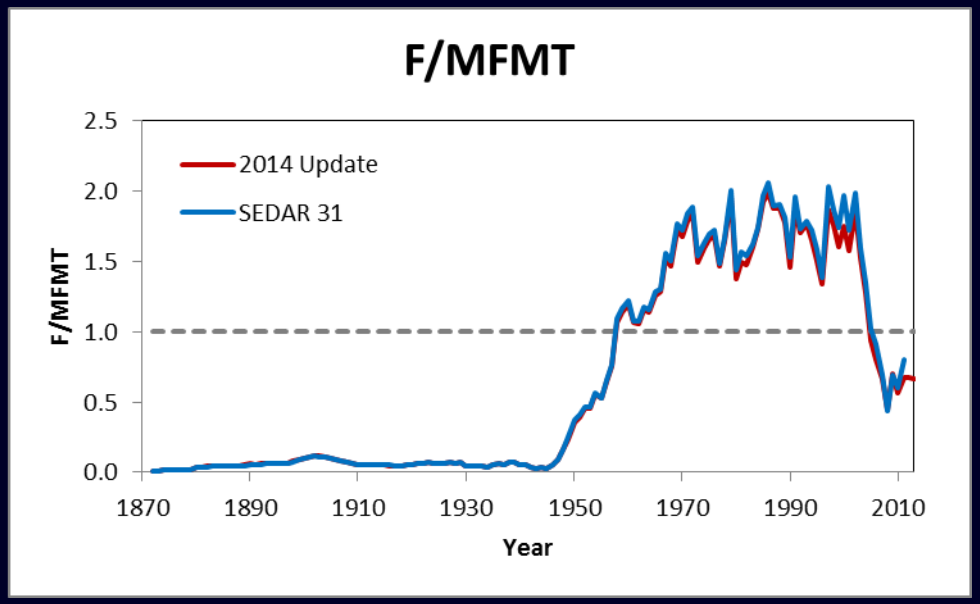
RS Update Assessment: MRIP Concerns

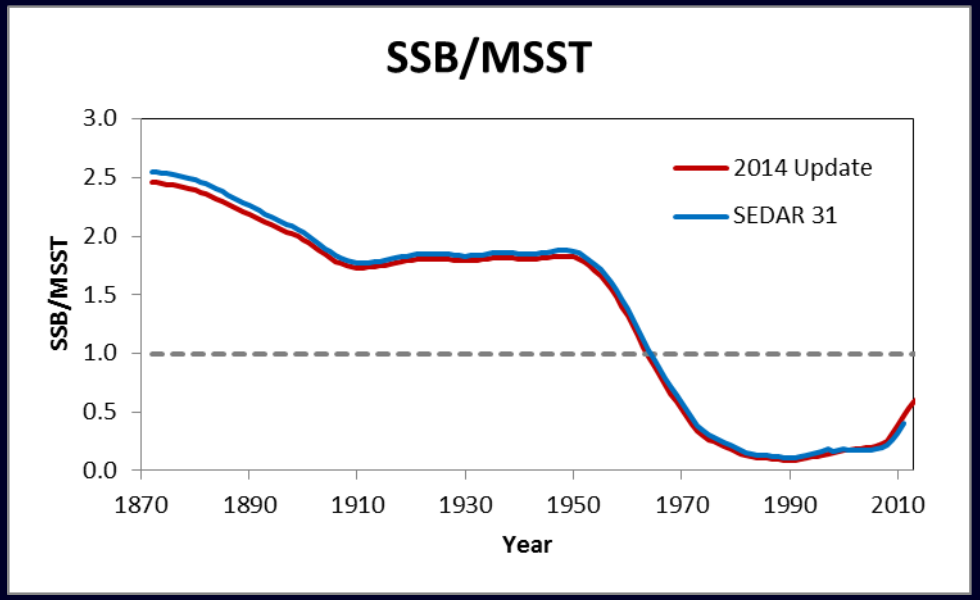
Figure 2a and 2b. Effect of Rescaling MRIP Estimates - Discards





RS Update Assessment: F and B Trends



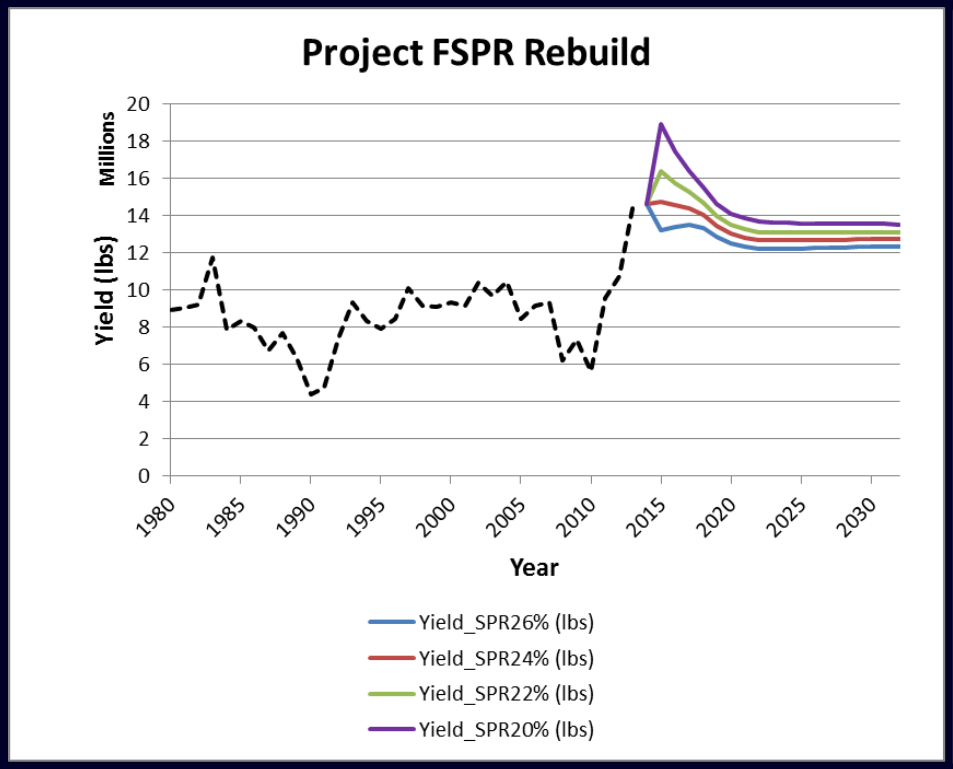


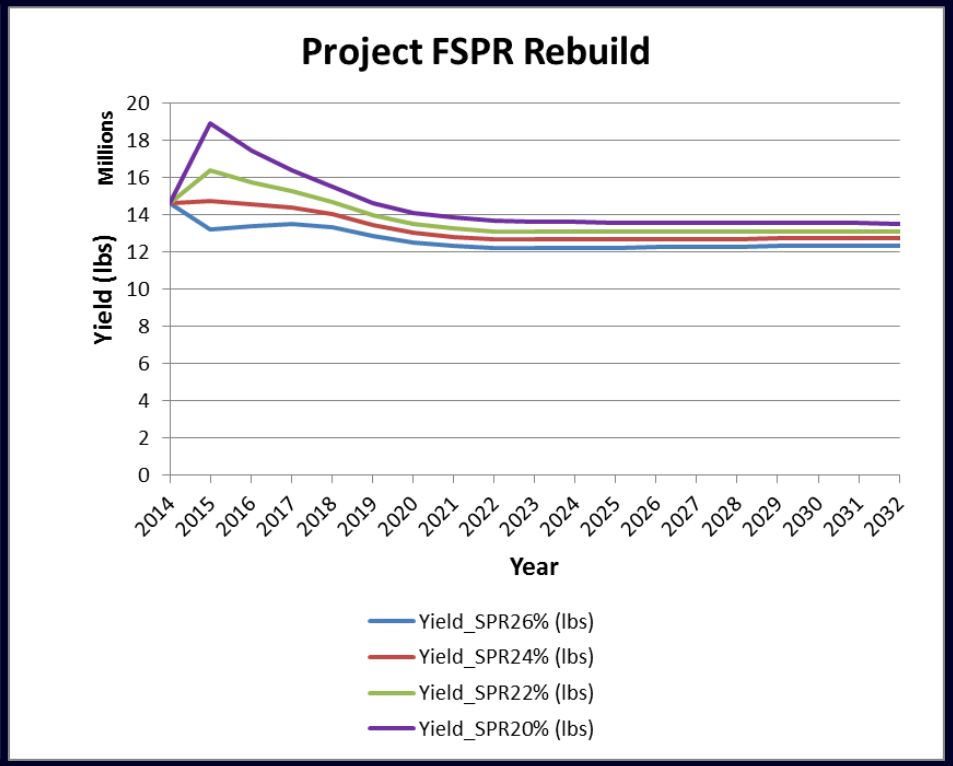
Red Snapper Update Assessment

The SSC moves that the red snapper update base assessment model is the best scientific information available and is acceptable for management purposes. The stock is estimated to remain overfished, but is not undergoing overfishing.

Motion passed 14-0, with one abstention.

RS Update Assessment: Projections





RS Update Assessment: OFL/ABC

Year	OFL Yield at $F_{SPR26\%}$	Yield at $F_{Rebuild}$	ABC P* = 0.427 and $F_{Rebuild}$ PDF
2015	14.73	13.22	13.00
2016	14.56	13.40	13.21
2017	14.40	13.51	13.32

Both the OFL and ABC motions passed unanimously.

Alternative MSY Proxies for Red Snapper

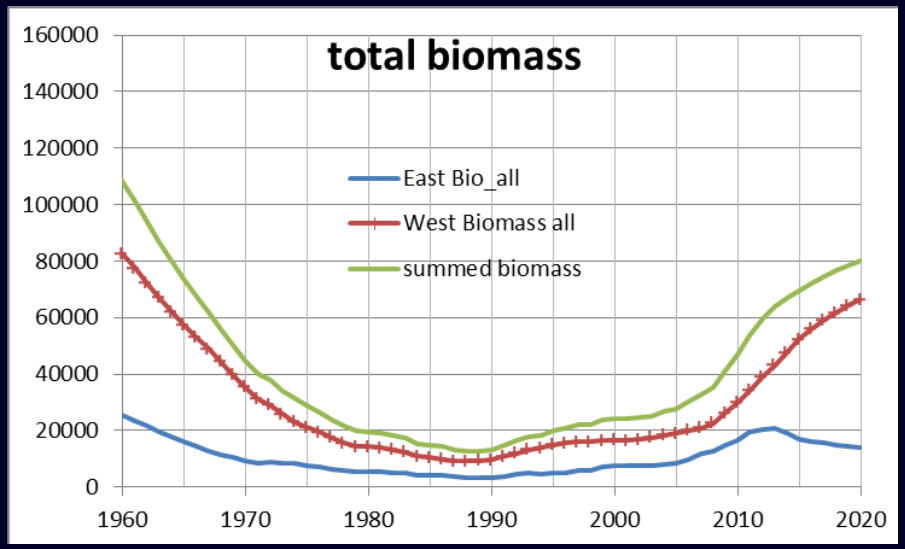
Projected Yield at FSPR (millions of lbs)
(Note: Does not achieve rebuild target by 2032)

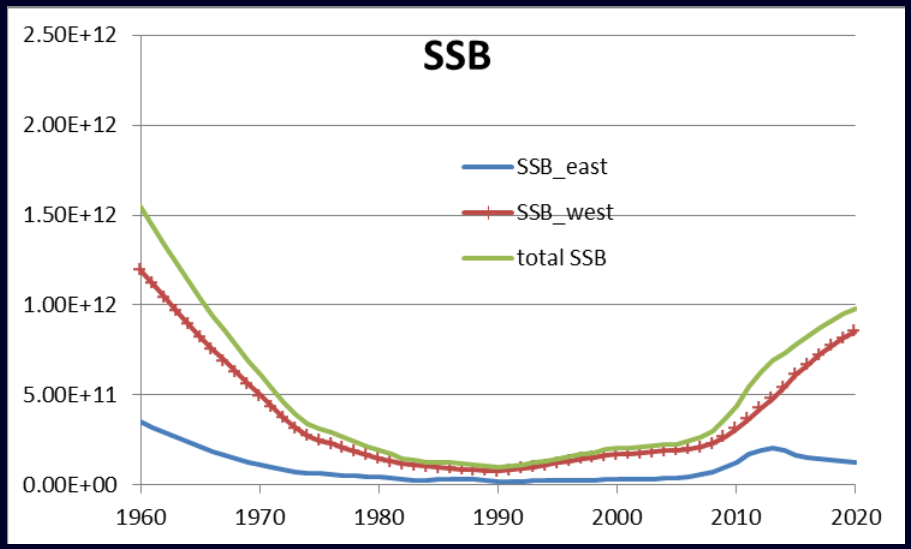
YEAR	FSPR 26%	FSPR 24%	FSPR 22%	FMAX (SPR20%)	SEDAR 31 (FSPR 26%)
2015	14.73	16.03	17.42	18.94	12.52
2016	14.56	15.50	16.46	17.44	11.25
2017	14.40	15.08	15.75	16.41	10.88
2018	14.02	14.54	15.03	15.49	10.92
2019	13.44	13.86	14.26	14.63	10.94
2020	13.03	13.42	13.78	14.11	11.10
Equil.	**12.87**	**13.13**	**13.37**	**13.57**	**11.69**

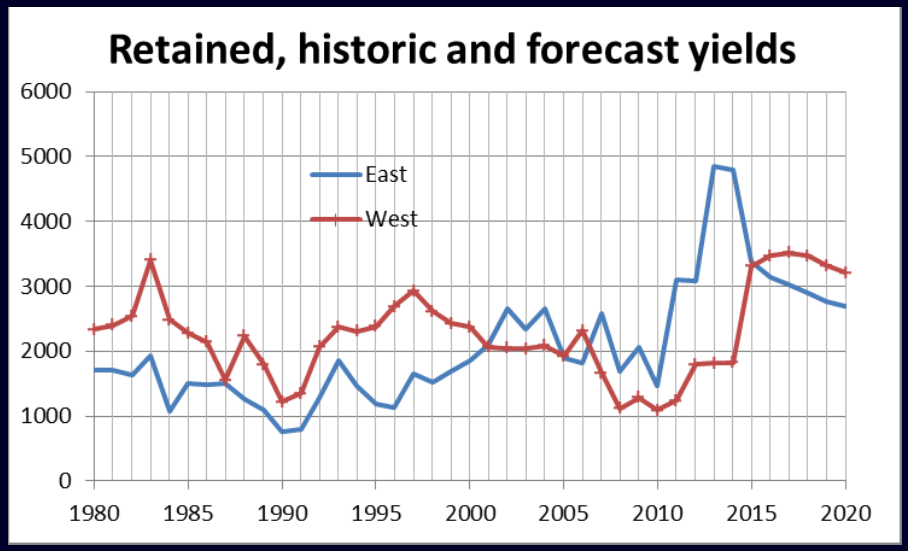
Alternative RS MSY Proxies: Issues Raised

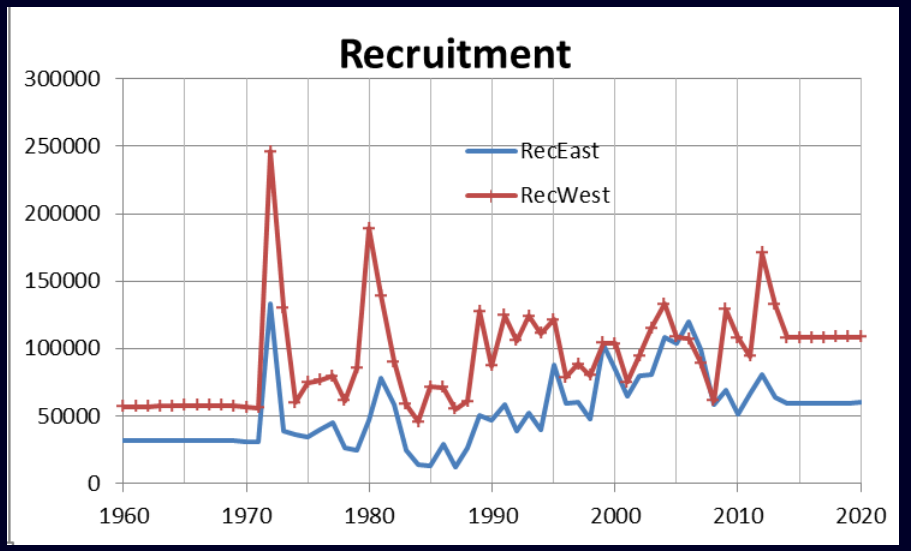
- Is there truly no relationship between SSB and recruitment?
- What does fixing steepness really imply?
- Working from the Council's current MSY proxy as a null, can the SSC offer scientific guidance for a change?
- Effect of changing rebuilding schedules on ABC/ACL?

Region-specific RS Population Trends









Reconsideration of Gag OFL/ABC

Reconsideration of Gag OFL/ABC

Chagaris (2015) Objective: To estimate the mortality rate of gag grouper caused by red tides from 2002-2014

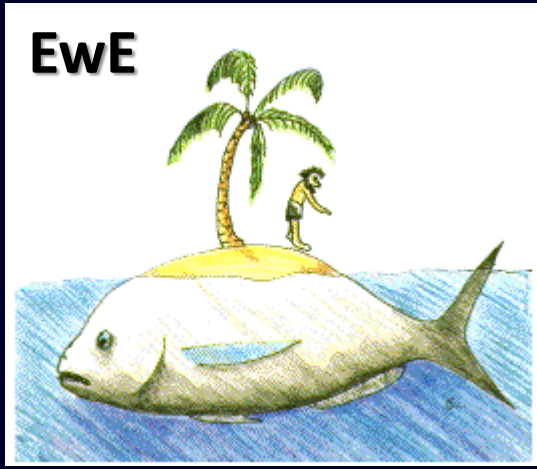
Spatial extent and duration – satellite imagery

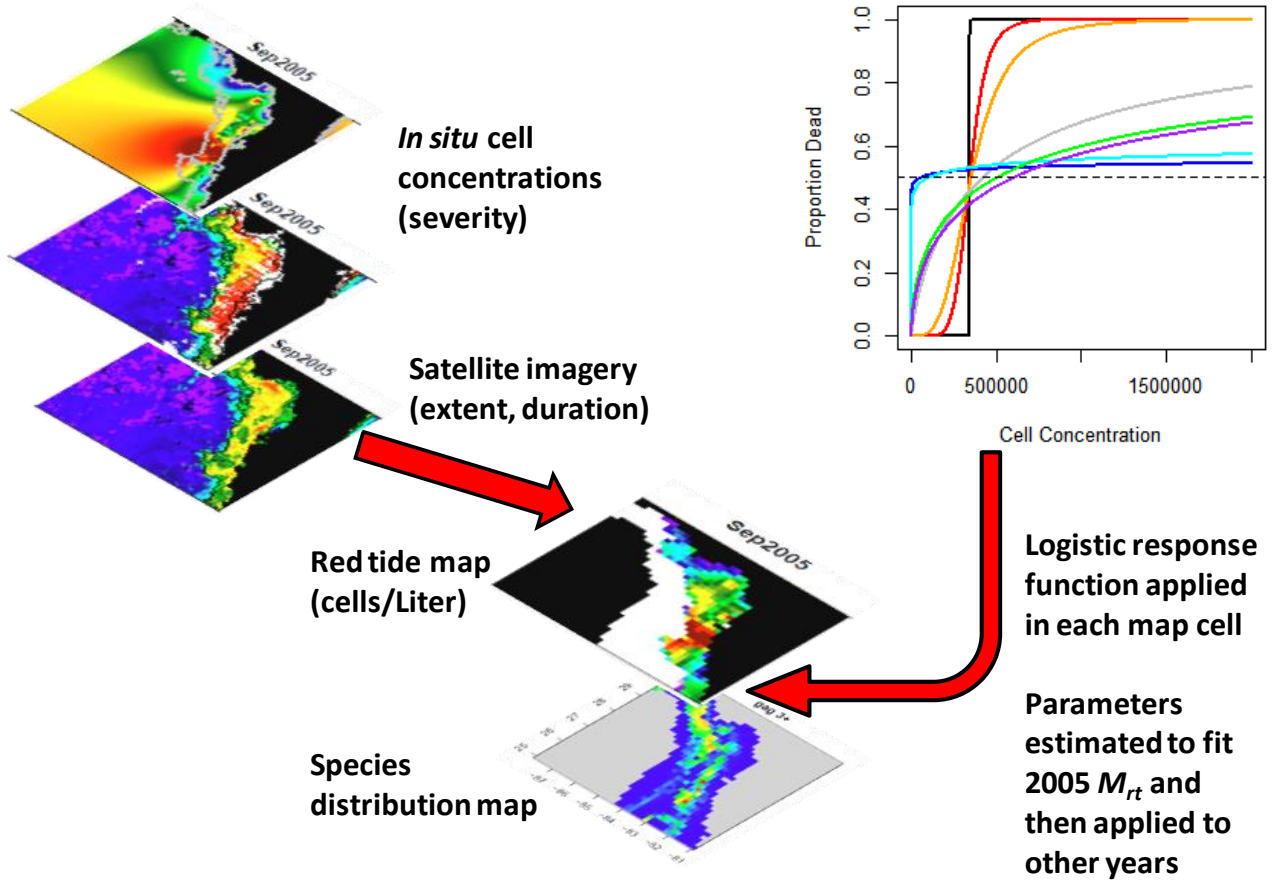
Severity – cell concentration samples

Species distribution patterns – ecosystem model

Mortality – logistic response function

Reconsideration of Gag OFL/ABC





Chagaris (2015)

Reconsideration of Gag OFL/ABC

2014 M_{rt} = 0.018 – 0.035 y^{-1}

4-7% of mortality caused in 2005

Reconsideration of Gag OFL/ABC

The SSC recommends that the OFL for gag grouper in the Gulf of Mexico be set at 0% of the 2005 red tide mortality event.

2015 - 6.77 mp gw

2016 - 5.84 mp gw

2017 - 5.38 mp gw

Motion passed 14-2.

Reconsideration of Gag OFL/ABC

The SSC recommends that the ABC for gag grouper in the Gulf of Mexico be set at the OY level from model projections assuming 0 red tide mortality.

2015 - 5.21 mp gw

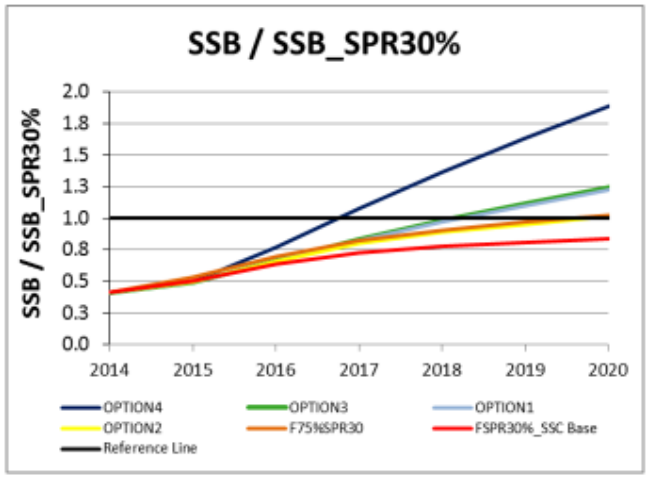
2016 - 4.75 mp gw

2017 - 4.57 mp gw

Motion passed unanimously.

Greater Amberjack Rebuilding

Results: Overfished Status Reference Point: SSB/SSB_SPR30% 2014-2020



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SS Estimated Recovery Year for Gulf of Mexico Greater Amberjack under four Alternative Projection Scenarios

Projection Scenarios (4 Alternatives to June 2014 SSC Base)	Recovery Year (to reach SSB@MSST)	Recovery Year (to reach SSB@SPR_30%)
Option1	2017	2019
Option2	2017	2020
Option3	2017	2019
Option4	2016	2017

NOAA FISHERIES

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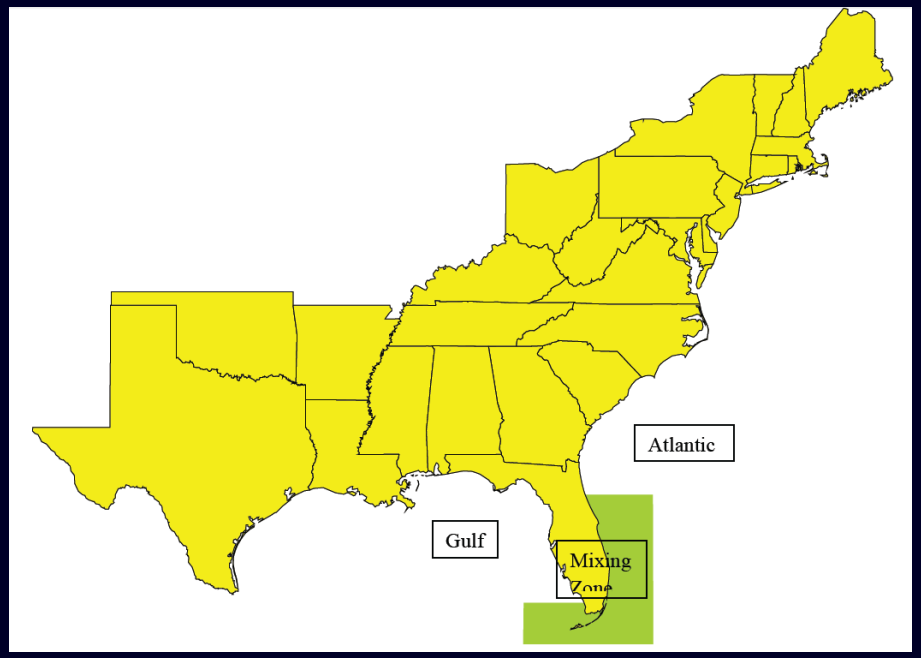
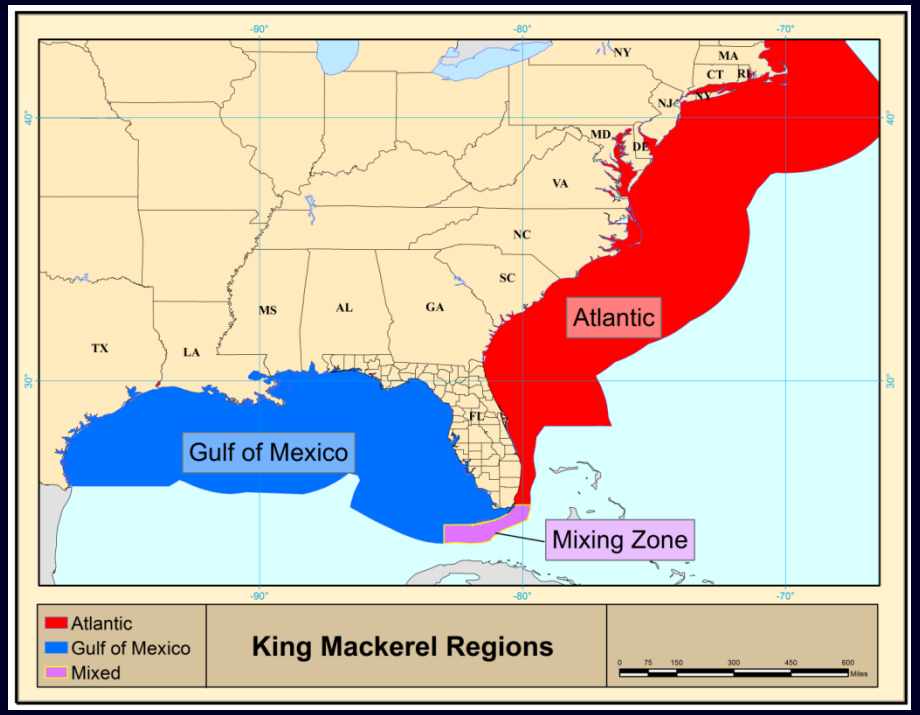
The SSC moves that the greater amberjack projections provided by the SEFSC are sufficient to inform management actions by the Gulf Council. Options 1-4 among landing scenarios each are projected to rebuild the greater amberjack stock by 2020.

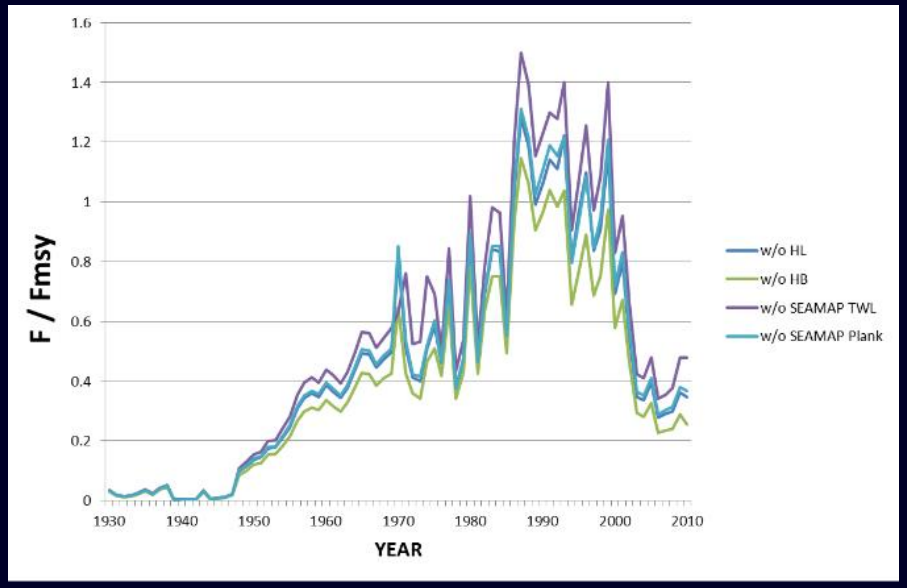
Motion passed unanimously.

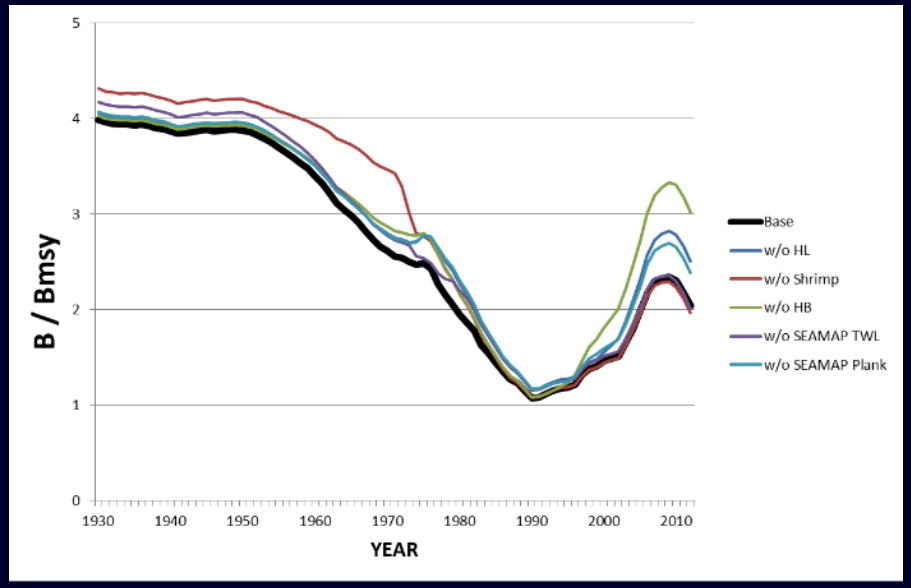
Gulf KM Assessment: Winter Mixing Zone





Gulf KM Benchmark Assessment





The SSC moves that the SEDAR 38 king mackerel base assessment model is the best scientific information available and is acceptable for management purposes. The stock is estimated not to be overfished or undergoing overfishing.

Motion passed 11-1.

Gulf King Mackerel OFL

The SSC moves that the OFL for king mackerel in the Gulf of Mexico be set as the yield stream at $F_{SPR30\%}$.

2015 - 10.11 mp ww

2016 - 9.61 mp ww

2017 - 9.27 mp ww

2018 - 9.11 mp ww

2019 - 8.95 mp ww

Motion passed unanimously.

Gulf King Mackerel ABC

The SSC moves that the ABC for king mackerel in the Gulf of Mexico be set at P* 0.43 applied to the OFL PDF.

2015 - 9.62 mp ww

2016 - 9.21 mp ww

2017 - 8.88 mp ww

2018 - 8.71 mp ww

2019 - 8.55 mp ww

Motion passed unanimously.