Framework 25 Specifications for FY2014 and FY2015 (default)

Final Action

Scallop AP and Committee Meeting January 21 and 22, 2014

Summary of Presentation

- Background: biomass results, performance of FMP under ACLs, and summary of how specs are set in this fishery
- Summary of FW25 alternatives and analyses
- List of outstanding issues:
 - What should default measures be for FY2015? PDT recommends 75% of projected DAS for LA and 100% of projected LAGC IFQ
 - Should PT and Occ be able to convert Del trips? How many DAS each?
 - Details of Delmarva flexibility review text page 21
 - Minimum poundage for unused 2012 trips? 2013?
 - Finalize WP AM alternatives



Overall performance of FMP

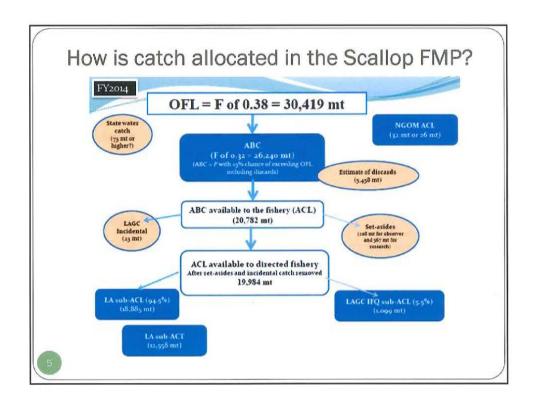
- Since implementation of ACLs in 2011, fishery landings have been 90-100% of catch level associated with ACL
- However, realized F has been higher than projected.
 Targets have been 0.23 0.28, but realized F = 0.33 0.377
 (20-30% higher than target F)
- In one year mostly due to catch being higher than projected, and one year primarily because biomass overestimated
- More than random error model too optimistic (still underestimating LPUE and fishing mortality)



How are specs set in the Scallop FMP?

- A15 modified OFD and method for setting Ftarget
 - "Hybrid" System adopted to protect open areas from growth overfishing
- Reference points for stock status determination the same
- But method for setting target fishing levels new
 - Old way— the more area closed to scallop fishing a higher Ftarget set in open areas to compensate for closures
 - -Hybrid approach Ftarget is governed by:
 - F in open areas set no higher than overfishing threshold (0.38)
 - F in access areas = level that results in F no higher than Fmsy when averaged over time (F=0, F=0, F=0.4, F=0.6, etc.)
 - Combined Ftarget for all areas (open and closed) not to exceed F rate with a 25% chance of exceeding ABC. OFL = 0.38, ABC = 0.32, and Ftarget = 0.28





FW25 Specification Alternatives

- No Action (Alt 1): 2014 Default set in FW24
 - LA: 23 DAS no AA trips GC: 2.77 million lbs
- Alt.2: 23 DAS and two 12,000 pound AA trips (NL, CA2, and Del)
- Alt.3: 23 DAS and two12,000 pound AA trip (NL and CA2 and Delmarva but Delmarva trip is a choice – 1 trip or 5 DAS)

Alternatives added at December Council Meeting

- Alt.4 31 DAS and same access area effort as Alt.3
 Open area F set higher to increase total catch to 2013 levels
- Alt.5 <u>28</u> DAS and same access area effort as Alt.3
 Open area F set higher so that DAS in 2015 are only reduced by one DAS
- Alt. 6 37 DAS and one access area trip (CA2 or NL only) Delmarva closed
 Open area F set higher to increase total catch to 2013 levels with Del closed
- LAGC IFQ allocation the same for Alternatives 2-6 (2.2 mill lbs)

Description of Alternatives (2014)

Table 8 (page 26)

Alt #	# Short name	Proj. Catch (mil lbs)	Est Revenue (mil \$)	Total F	OA F	FT DAS	# AA trips	
1	No Action	23.8	280.5	0.10	0.38	23	0	
2	Basic run	31.7	363.6	0.18	0.38	23	2	
3	Basic run with Del option Basic with higher OA F up to	31.7	364.3	0.17	0.40	28 (or 23)	1 (or 2)	
4	2013 catch Basic with higher OA F	38.5	427.8	0.21	0.52	36 (or 31)	1 (or 2)	
5	(reduce impact on DAS in 15)	35.9	404.6	0.19	0.48	33 (or 28)	1 (or 2)	
6	Higher OA F with Del closed	37.9	422.8	0.18	0.62	37	1	

- Projected catch for 2013 was 38.2 million lbs. (17,327 mt)
- Alt 4-6 increase landings by 4-6 million pounds and total revenue by
- 40-60 million dollars for FY2014 compared to basic run projections



Quick Comparison of Alternatives Document #3 - Impacts

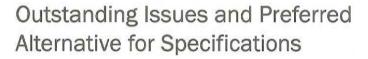
				51 Rev in	LI Kev in		
Short name	FT DAS (2015)			mil\$ (2014-15) (3% disc. rate)	mil\$ (2014-27) (3% disc. rate)		
No Action	25	68.9	718.4	\$741.7	\$6057		
Basic run	25	75.3	717.8	\$812.9	\$6080		
Basic run with Del option	25	75.1	722.6	\$811.2	\$6110		
Basic with higher OA F up to 2013 catch Basic with higher OA F	23	79.5	715.5	\$855.7	\$6076		
(under 0.48)	24	77.8	717.4	\$838.5	\$6078		
Higher OA F with Del closed	22	78.9	716.5	\$849.1	\$6074		
	No Action Basic run Basic run with Del option Basic with higher OA F up to 2013 catch Basic with higher OA F (under 0.48)	Short name (2015) No Action 25 Basic run 25 Basic run with Del option 25 Basic with higher OA F up to 23 2013 catch 23 Basic with higher OA F (under 0.48) 24	Short name (2015) (2014-15) No Action 25 68.9 Basic run 25 75.3 Basic run with Del option 25 75.1 Basic with higher OA F up to 23 79.5 Basic with higher OA F 24 77.8	Short name (2015) (2014-15) (2014-27) No Action 25 68.9 718.4 Basic run 25 75.3 717.8 Basic run with Del option 25 75.1 722.6 Basic with higher OA F up to 23 79.5 715.5 Basic with higher OA F (under 0.48) 24 77.8 717.4	FT DAS Short name FT DAS (2014-15) (2014-16) HT Land (2014-15) (2014-15) mils (2014-15) (2014-16) No Action 25 68.9 71.84 5741.7 Basic run 25 75.3 717.8 5812.9 Basic run with Del option 25 75.1 722.6 5811.2 Basic with higher OA F up to 2013 catch 23 79.5 715.5 5855.7 Basic with higher OA F (under 0.48) 24 77.8 717.4 \$838.8		

- Alt 4-6 reduce DAS in FY2015 compared to Basic runs (1-3 DAS)
- ST(2014-2015): Alts 4-6 are 2-4 million lb higher than basic runs
- <u>LT (2014-2027</u>): Alt 3 performs slightly better than rest; about 5 million lbs, and about \$30 million dollars higher (based on 3% discount rate)

Area swept and Bycatch projections

- Estimate of 2014 area swept for basic runs is about 2,050 nm²
- Alt $4 = 2,800 \text{ nm}^2$; Alt $5 = 2,500 \text{nm}^2$, and Alt $6 = 3,250 \text{ nm}^2$
- PDT estimated bycatch of YT using 2012 and 2013 rates
- 2014 projected catch of GBYT is above the sub-ACL for all FW25 scenarios, for SNEYT some are above, and for SNEWP all scenarios are below the sub-ACL

	GBYT	SNE/MAYT	SNE/MAWP
2014 sub-ACL	50.9	66	183
Alt1			
No Action	22.4 - 26.6	42.4 - 45.6	25.2
Alt2	58.2 - 96.6	49.1 - 54.8	67.2
Alt3	59.2 - 97.7	50.9 - 56.7	69.4
Alt4	64.2 - 103.7	61.1 - 67.7	74.4
Alt5	62.2 - 101.3	57.0 - 63.2	71.8
Alt6	68.2 - 108.5	69.3 - 76.5	79.1



- What should default measures be for FY2015?

 PDT recommends 75% of projected DAS for LA and 100% of projected LAGC IFQ
- Should PT and Occ be able to convert Del trips? How many DAS? See page 21
- Details of Delmarva flexibility review text page 21
 When and how do vessels need to decide about Delmarva?
- Preferred Alternative? Alternative 1, 2, 3, 4, 5, or 6?



Measures to reduce impacts on small scallops in NL and Delmarva – *Preferred Alternatives?*

- Section 2.1.3.7 Restrict NL AA trips north of 40.5 N?
- Section 2.1.3.8 Additional measures to reduce mortality on small scallops
 - No Action
 - Prohibit 2014 RSA in NL
 - Prohibit 2014 RSA in Delmarva
 - Limit fishing in Delmarva from June1-Aug 31 (or 3 months after FW25 implemented)
 - Restrict crew limits in Delmarva consistent with open areas



Measures to address unused Closed Area I trips – *Preferred Alternatives?*

- Section 2.1.3.9 Allow rollover of unused trips?
 - From which years (2012/2013)?
 - To what area (CA1, open)?
 - And through when (FY2014, 2015, or when CA1 reopens)?
- Clarify if a minimum poundage should be considered? Page 33



Specifications for LAGC Vessels

- Section 2.1.4 LAGC IFQ
 - Preferred Alternative for how to allocate CA2 trips?
- Section 2.1.5 LAGC NGOM hard-TAC
 - Preferred Alternative for TAC? See correspondence
- Note: target TAC for LAGC Incidental permits will remain at 50,000 pounds for FY2014. However, the PDT will continue to monitor this catch level and recommend changes if needed.



Section 2.2 AMs for SNE/MA WP

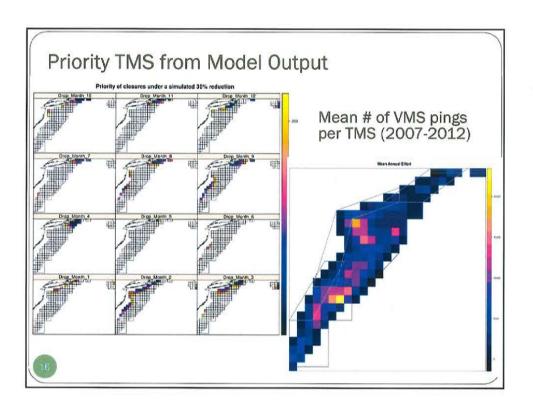
- No Action (no AMs for scallop fishery)
- Alt. 2: Seasonal area closure (several areas and seasons still under consideration)
- Alt 3: Seasonal gear restricted area (maximum of five rows of rings in apron of dredge and 1.5: 1 hanging ratio for twine top)
- Alt. 4: Proactive gear modification (maximum of seven rows of rings in apron of dredge)
- AP/Cmte need to finalize the areas, seasons, and triggers for Alternative 2 and 3

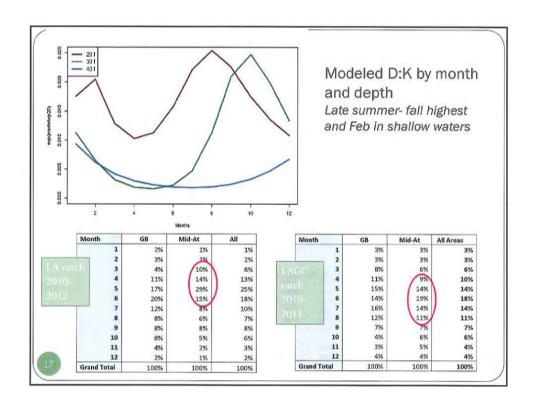


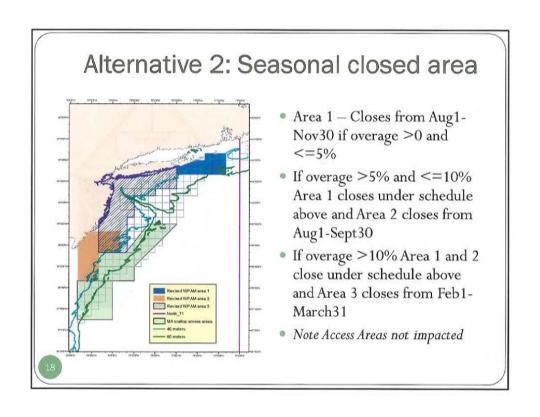
Overview of method used to identify WP AM areas (Doc # 4, 4a, and 4b)

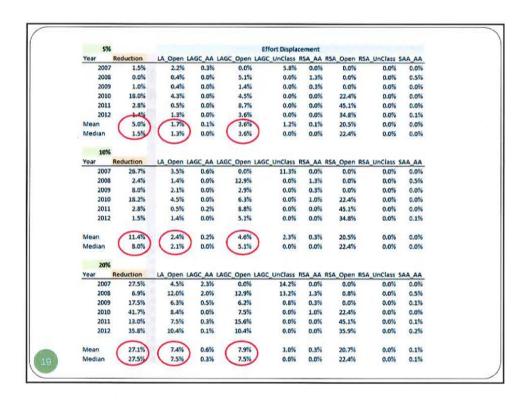
- Model spatial and temporal variations in WP and scallop catch rates using observer data to model d/k ratios and VMS data to model effort
- 2. Close a series of ten-minute squares and displace effort in neighboring cells until target reduction achieved
 - focused on priority cells from model outputs, seasonal variation in WP bycatch rates, VMS and VTR effort plots, and catch by month data
- Determine estimate of WP reduction and % scallop effort displaced

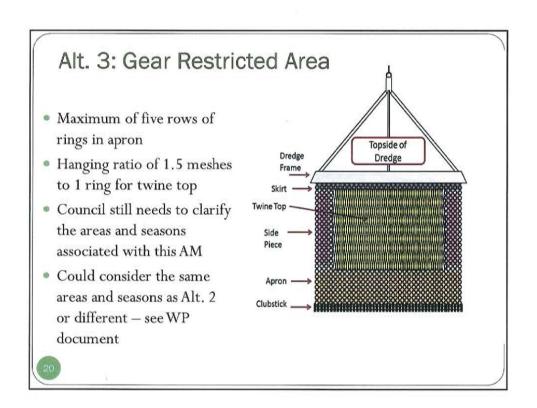












Summary of Gear Research Section 3.0 of WP Doc. LENGTH BASED RELATIVE EFFICIENCY CFTDD FRAME - SCALLOP 2012 RSA Project — 4 separate trips (300 tows) Catch weights and bycatch rates compared; and model used to test for differences in lengths In terms of weight - 45% less WP with experimental dredge Less efficient at catching WP 10 40 70 90 10 100 110 120 130 140 150 150 170 190 5/EUL/10/5/HT (www SPRIO APPOIL SPRIO APPOIL SPRIO APPOIL Catch weight analysis - no sig. diff in scallop meat weights, but model suggests diff in numbers of scallops 600 500 400 caught Experimental gear more selective: 100 caught fewer scallops but larger scallops Shell Height (mm)

analying 1					NUMBER OF	area							
applying 4	.5%	red	uctio	on t	o ef	fort)						
							,						
							Mont	h					
Area 1 (Long Island)	241033307.1	1	2	3	4	5	. 6	7	8	9	10	11	1.
	2007	0.04%	0.24%	0.44%	1.91%	0.45%	0.04%	0.64%	1.99%	2.68%	1.69%	0.83%	0.15%
	2009	0.06%	0.00%	0.14%	0.45%	0.03%	0.03%	0.28%	0.01%	0.67%	0.14%	0.12%	0,079
	2010	0.05%	0.13%	0.17%	0.28%	0.05%	0.01%	0.56%	2.02%	4.04%	1.28%	0.45%	0.03%
	2011	0.05%	0.11%	0.82%	5.05%	0.51%	0.08%	0.29%	0.61%	1.10%	1.01%	0.65%	0.059
	2012		0.23%	0.11%	0.62%	0.21%	0.05%	0.41%	1.30%	1.31%	0.42%	0.31%	0.079
Mean	,	0.06%	0.14%	0.34%	1.66%	0.25%	0.04%	0.44%	1.19%	1.96%	0.91%	0.47%	0.079
Area 2 (MidAtlantic)		1	2	3	4	5	6	7	8	9	10	11	1.
	2007	0.21%	0.88%	0.37%	0.21%	0.16%	0.92%	0.80%	1.84%	2.69%	0.35%	0.02%	0.049
	2009	0.01%	0.22%	0.06%	0.08%	0.04%	1.12%	1.21%	0.31%	1.79%	0.14%	0.00%	0.019
	2010	0.03%	0.07%	0.02%	0.09%	0.08%	0.28%	0.04%	0.36%	0.13%	0.04%	0.00%	0.019
	2011	0.03%	0.05%	0.02%	0.04%	0.02%	0.06%	0.02%	0.03%	0.03%	0.01%	0.00%	0.009
	2012	0.01%	0.08%	0.03%	0.05%	0.07%	0.12%	0.03%	0.17%	0.18%	0.02%	0.01%	0.019
Mean		0.06%	0.26%	0.10%	0.09%	0.07%	0.50%	0.42%	0.54%	0.96%	0.11%	0.01%	0.029
Area 3 (Coastal)		1	2	3	4	5	6	7	8	9	10	11	1.
	2007 2008	0.78%	1.82%	1.12%	0.87%	0.22%	0.78%	0.60%	1.73%	2.19%	0.99%	0.20%	0.539
	2009	1.43%	4.25%	2.73%	1.39%	0.16%	1.12%	0.80%	0.77%	2.42%	0.61%	0.05%	0.48%
	2010	1.12%	4.79%	1,54%	0.46%	0.32%	1.10%	0.52%	2.10%	1,34%	0.70%	0.22%	1.089
	2011	1.72%	5.27%	6.36%	2.47%	0.35%	0.26%	0.25%	0.24%	0.43%	0.46%	0.28%	0.65%
	2012	1.32%	7.25%	6.95%	2.11%	0.54%	0.30%	0.30%	1.07%	1.06%	0.52%	0.07%	0.26%

Clarify final alternatives **Preferred?**

- Alt 2 what are the final areas, seasons, and triggers for AM?
- Alt 3 what are the final areas, seasons, and triggers for AM?
- Support PDT input for AM details on page 43?
- Preferred Alternative?

