Draft Presentation
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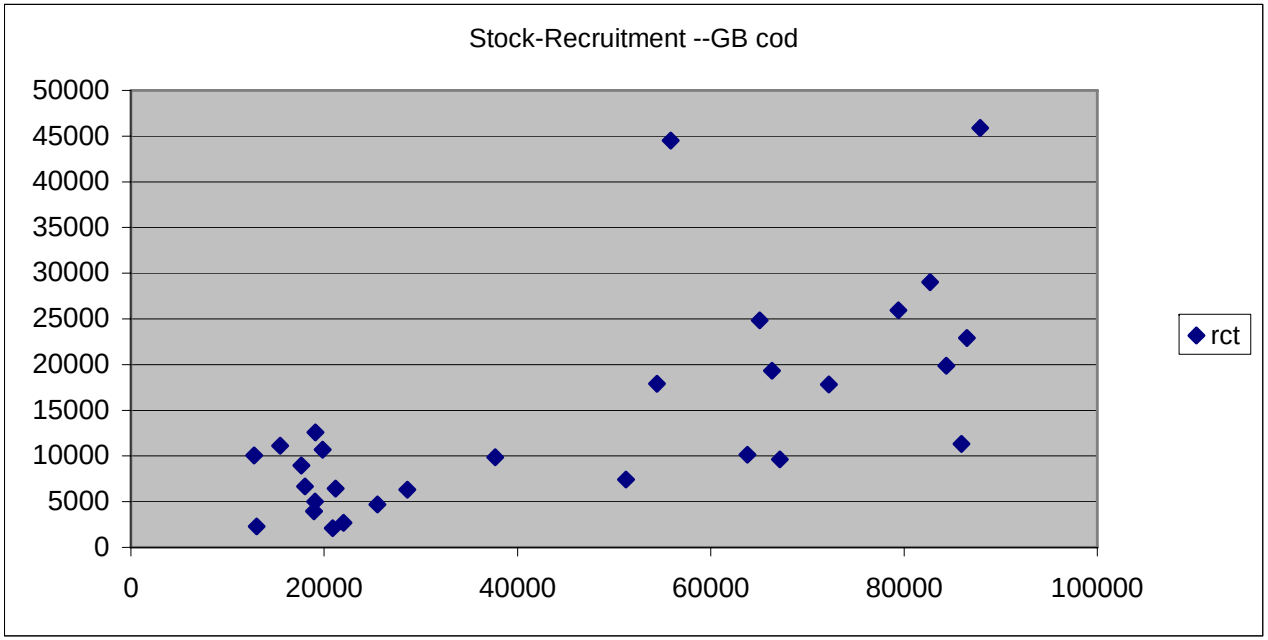
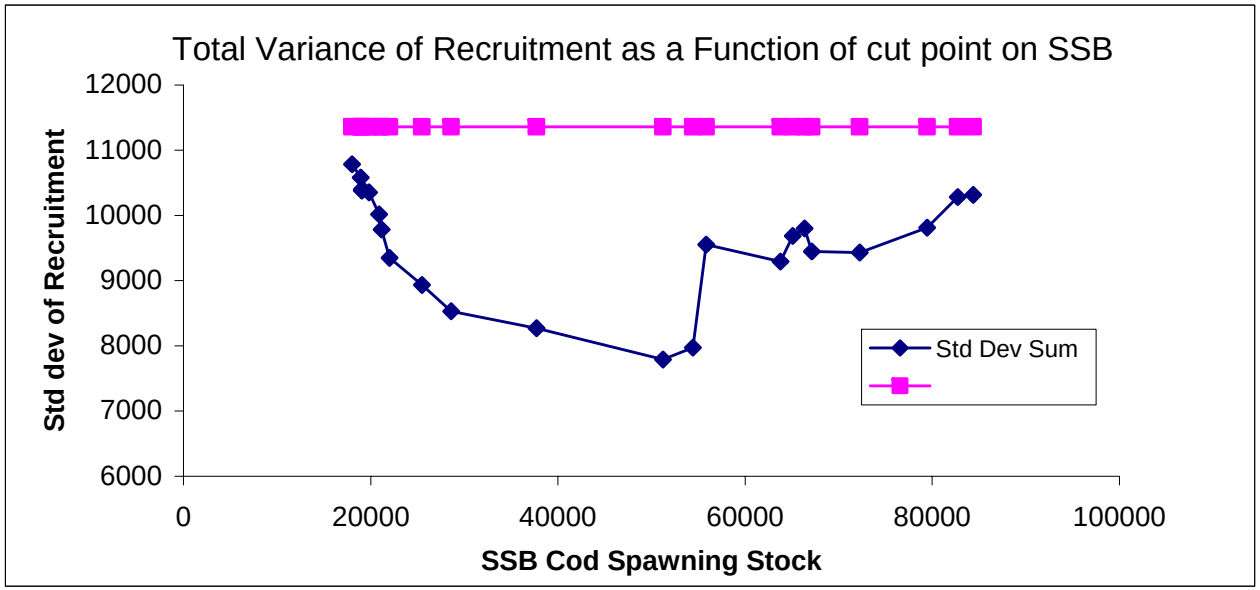
Does not represent
final NOAA Decision/Policy.
5/01/08

WP 4A. Georges Bank cod

Non –Parametric BRP

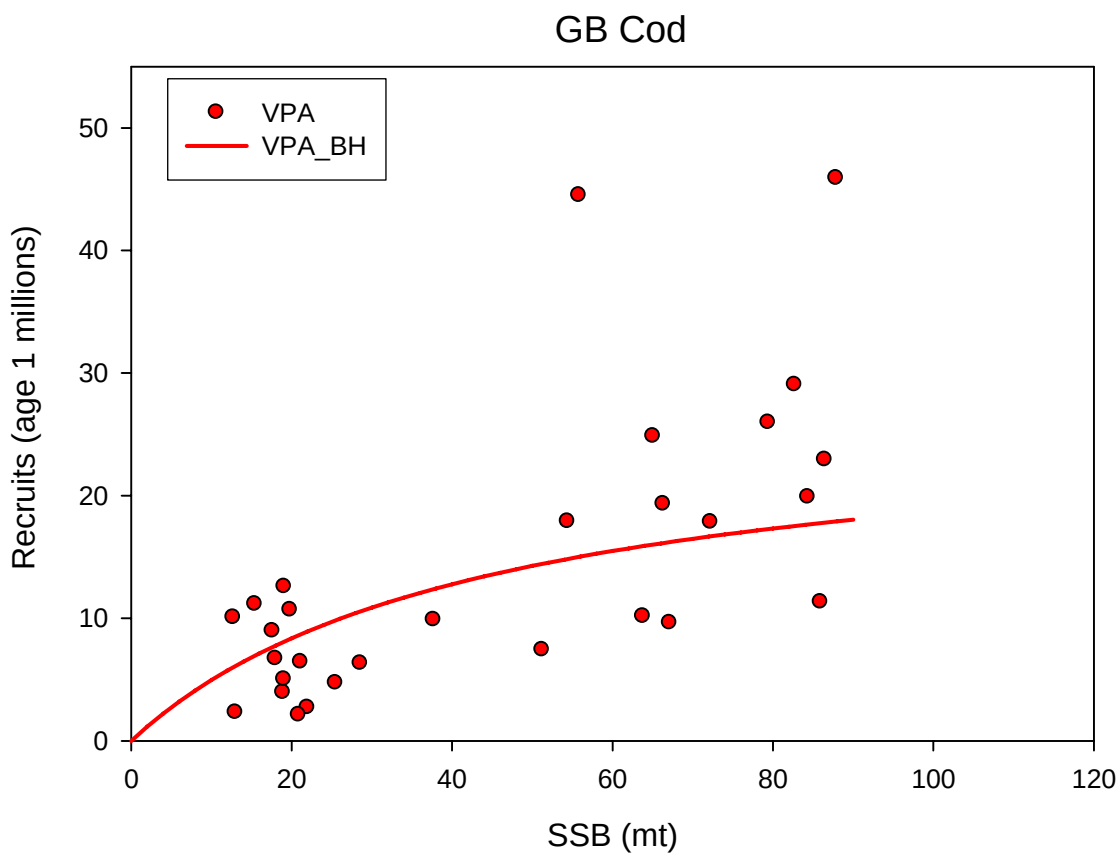
Model	F40%	Y/R	SSB / R	Recruitment	SSBmsy	MSY
YPR						
Empirical.Avg.Rct	0.25	1.4063	6.65074	14,133	93,995	19,875
Proj. CDF all R				10,421	93,986	19,824
Proj. CDF >50K	14 values			19,550	143,343	30,220


Stock-Recruitment --GB cod
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
20000
40000
60000
80000
100000
rct


Total Variance of Recruitment as a Function of cut point on SSB
Std dev of Recruitment
12000
11000
10000
9000
8000
7000
6000
0
20000
40000
60000
80000
100000
SSB Cod Spawning Stock
Std Dev Sum

Parametric BRP - VPA 1978-2006

Model	F40%	Fmsy	SSBmsy	MSY	alpha	beta	steepness	sigma	prior R	stdev
B-H										
BRP 2002		0.18	216,780	35,200	28.286	77.6945	0.84	0.6000	23.248	



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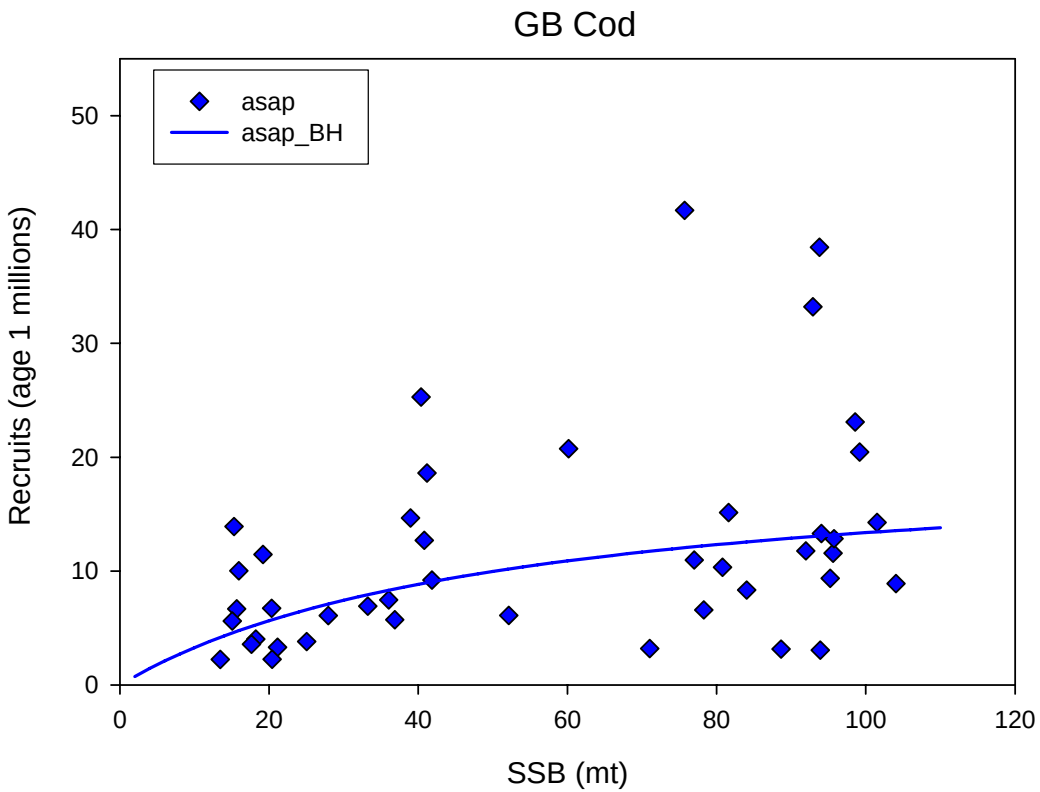
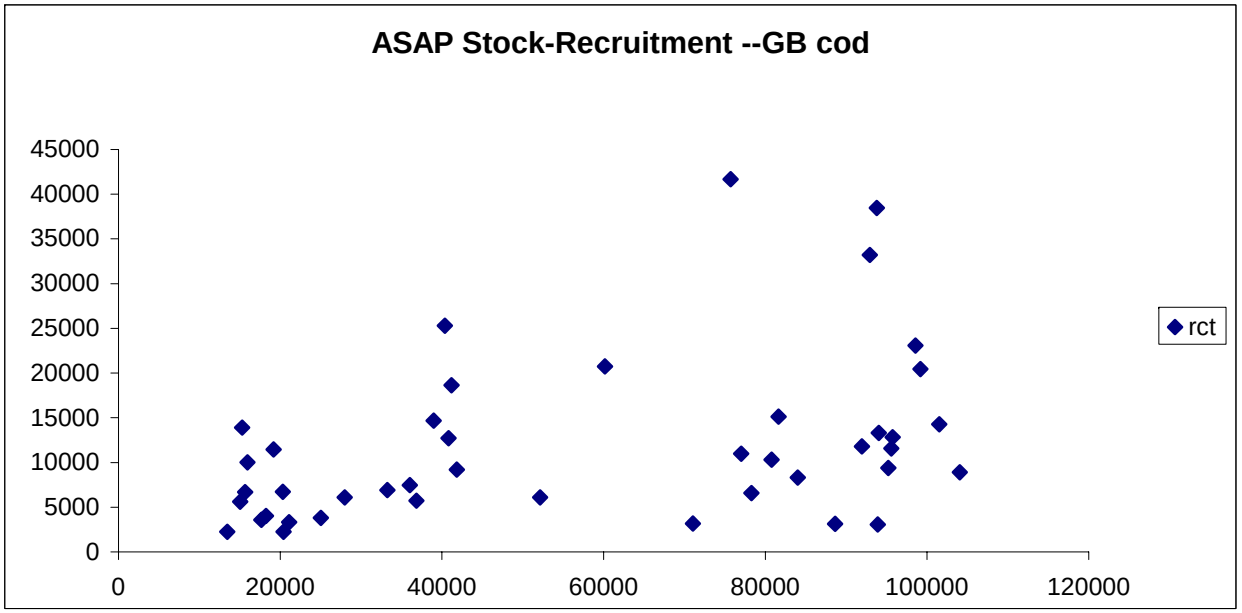
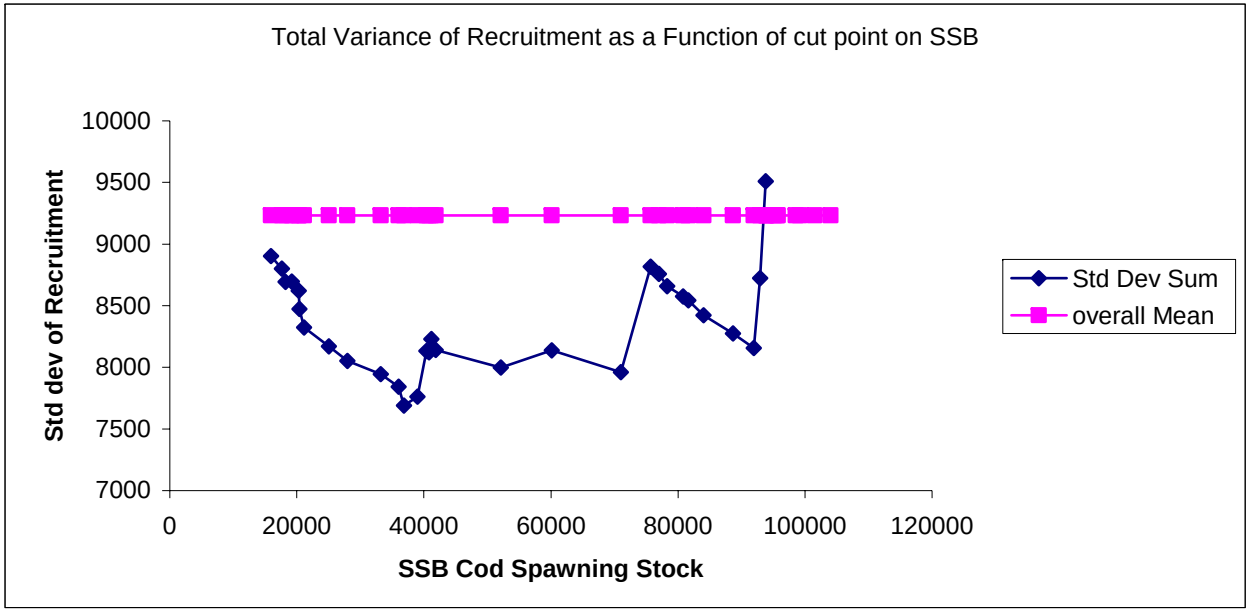
Model	F40%	Fmsy	SSBmsy	MSY	alpha	beta	steepness	sigma	prior R	stdev
VPA										
BH 90%R		0.225	174,292	33,983	32.982	60.9238	0.69	0.5756	28.738	2.095
Proj.(B-H)			274,211	52,714						
BH RminStDev		0.235	142,348	28,800	26.911	44.292	0.72	0.5862	21.891	3.160
Proj			218,323	43,605						

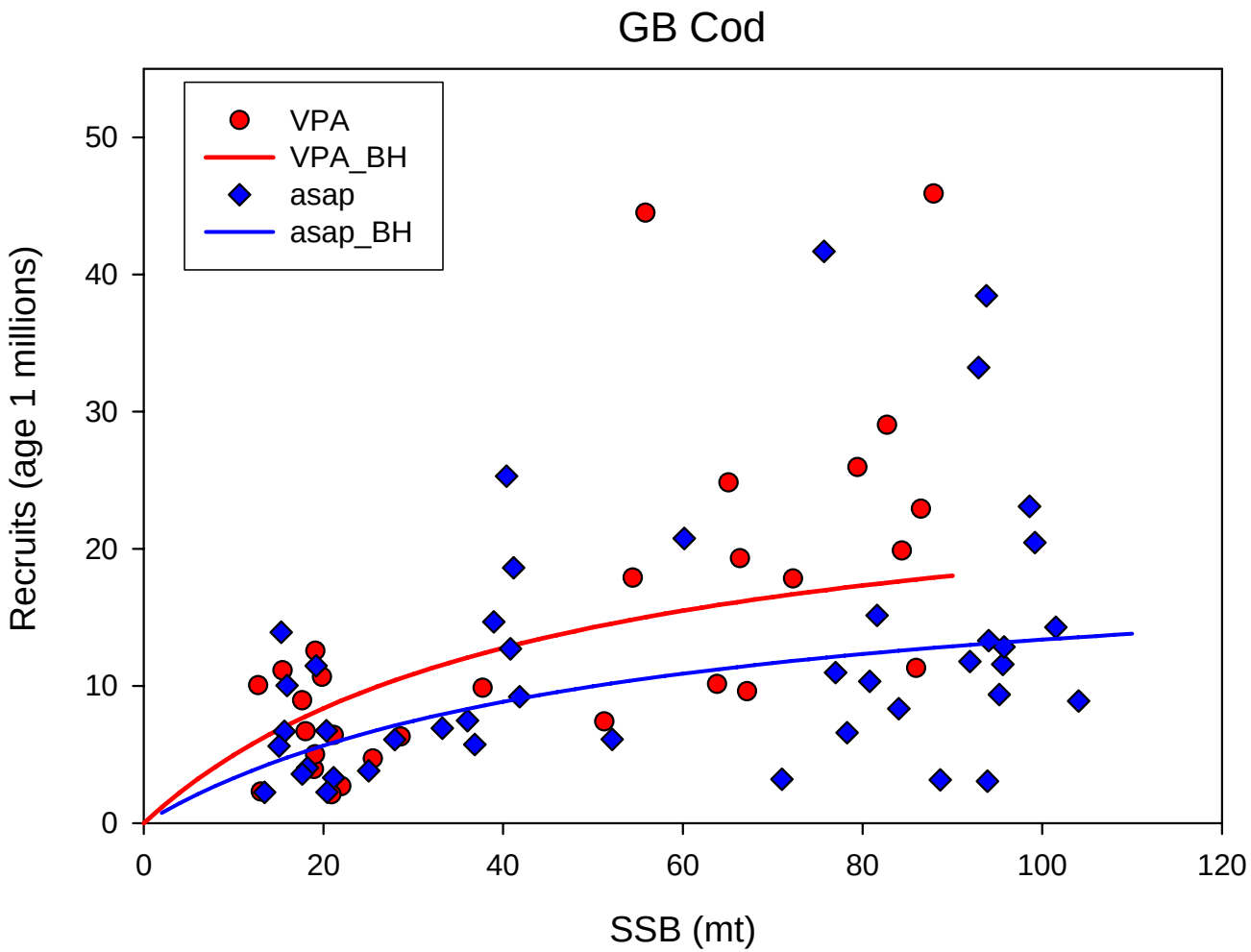
Parametric BRP – ASAP 1963-2006

Model	F40%	Fmsy	SSBmsy	MSY	alpha	beta	steepness	sigma	prior R	stdev
ASAP										
Internal B-H		0.19	106,697	17,191	20315	51883.1	0.69	0.6598		
Proj.(B-H)			190,938	32,516						
External BH (Srfit)		0.22	87,656	18,417	17119	24110	0.75	0.6422	14745	1896
Proj			144,004	28,048						




ASAP Stock-Recruitment --GB cod
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
20000
40000
60000
80000
100000
120000
rct


Total Variance of Recruitment as a Function of cut point on SSB
Std dev of Recruitment
10000
9500
9000
8500
8000
7500
7000
0
20000
40000
60000
80000
100000
120000
SSB Cod Spawning Stock
Std Dev Sum
overall Mean


GB Cod
VPA
VPA_BH
asap
asap_BH
Recruits (age 1 millions)
SSB (mt)
0
10
20
30
40
50
0
20
40
60
80
100
120

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