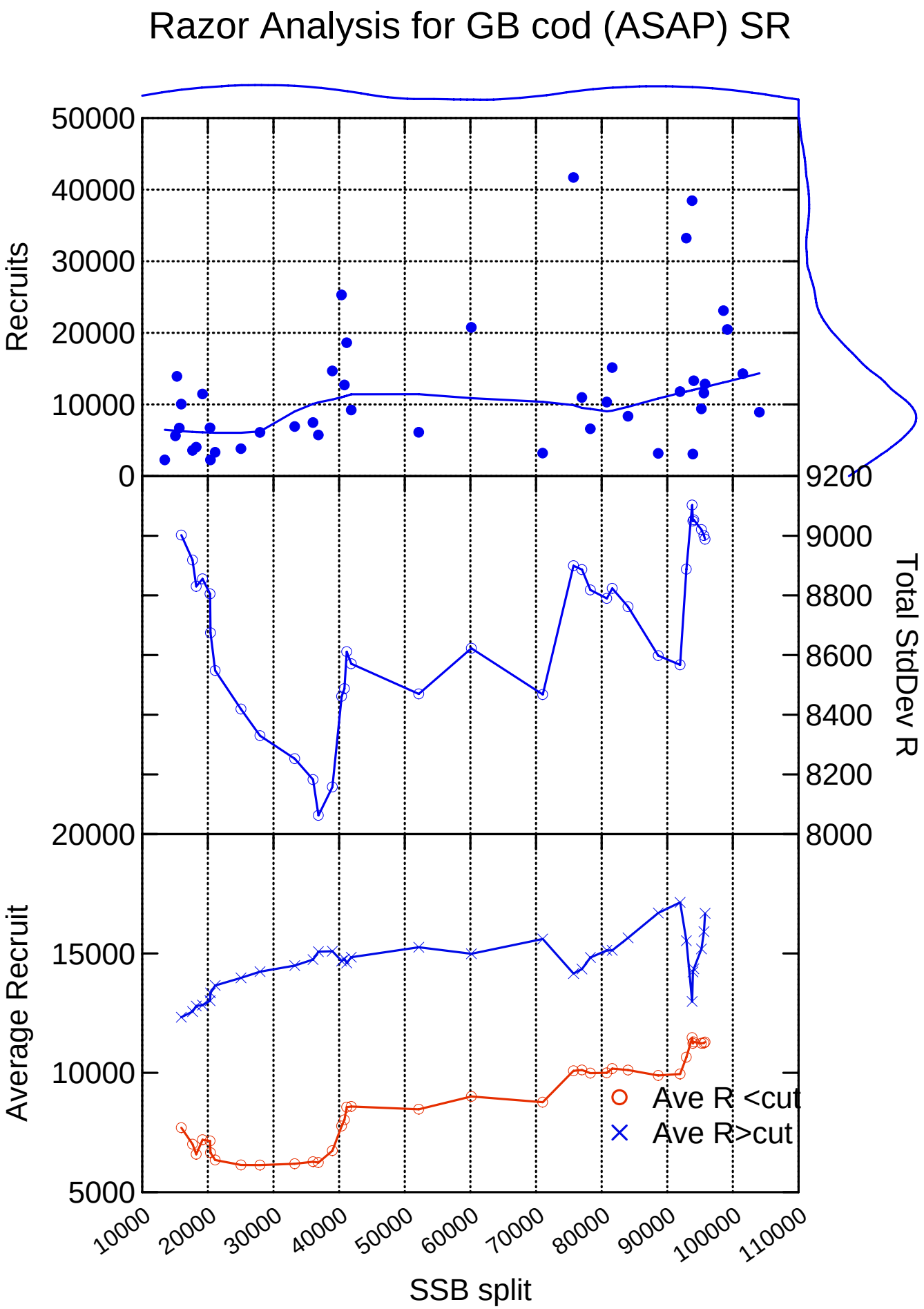
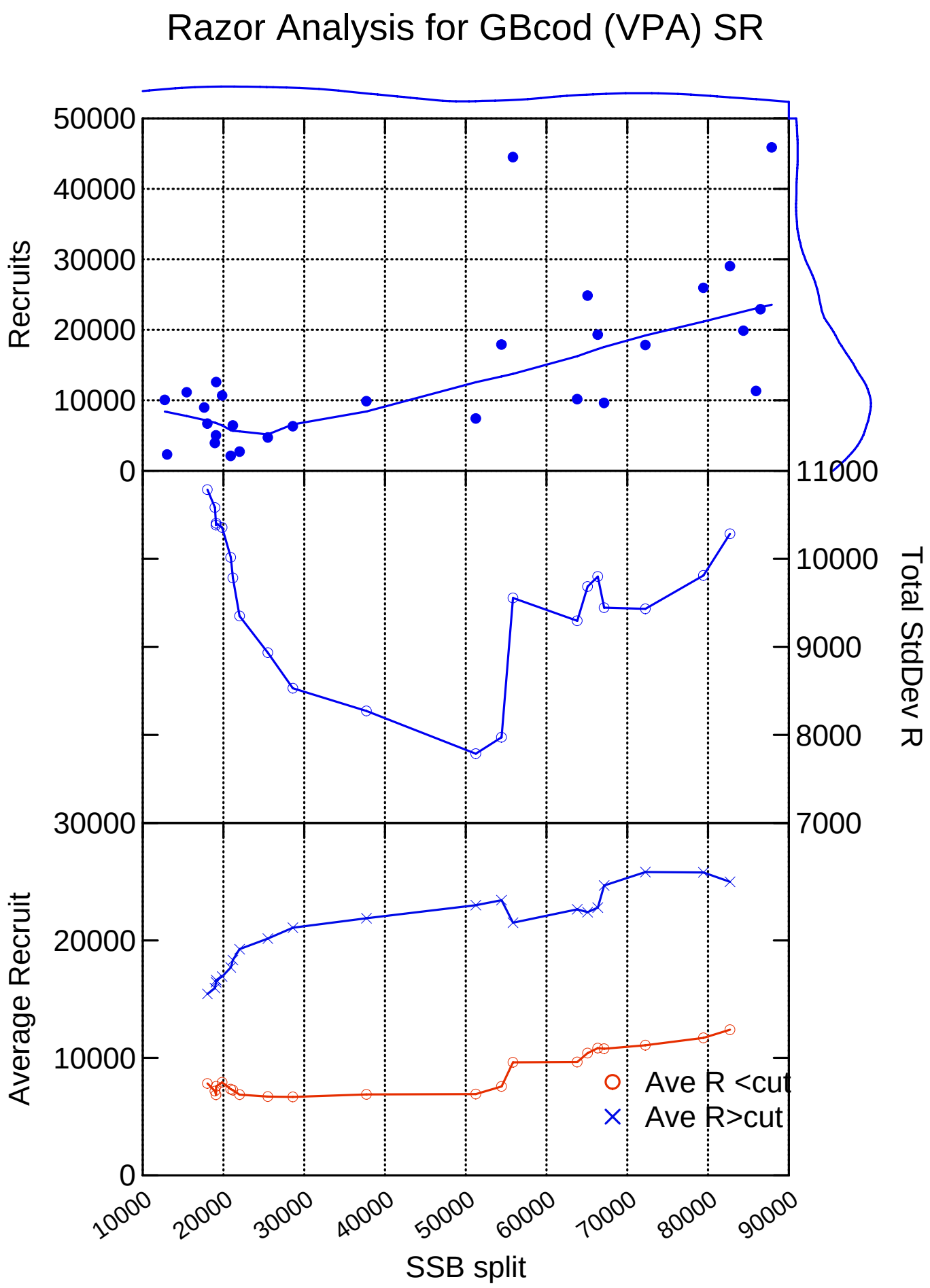
RAZOR SR ANALYSES

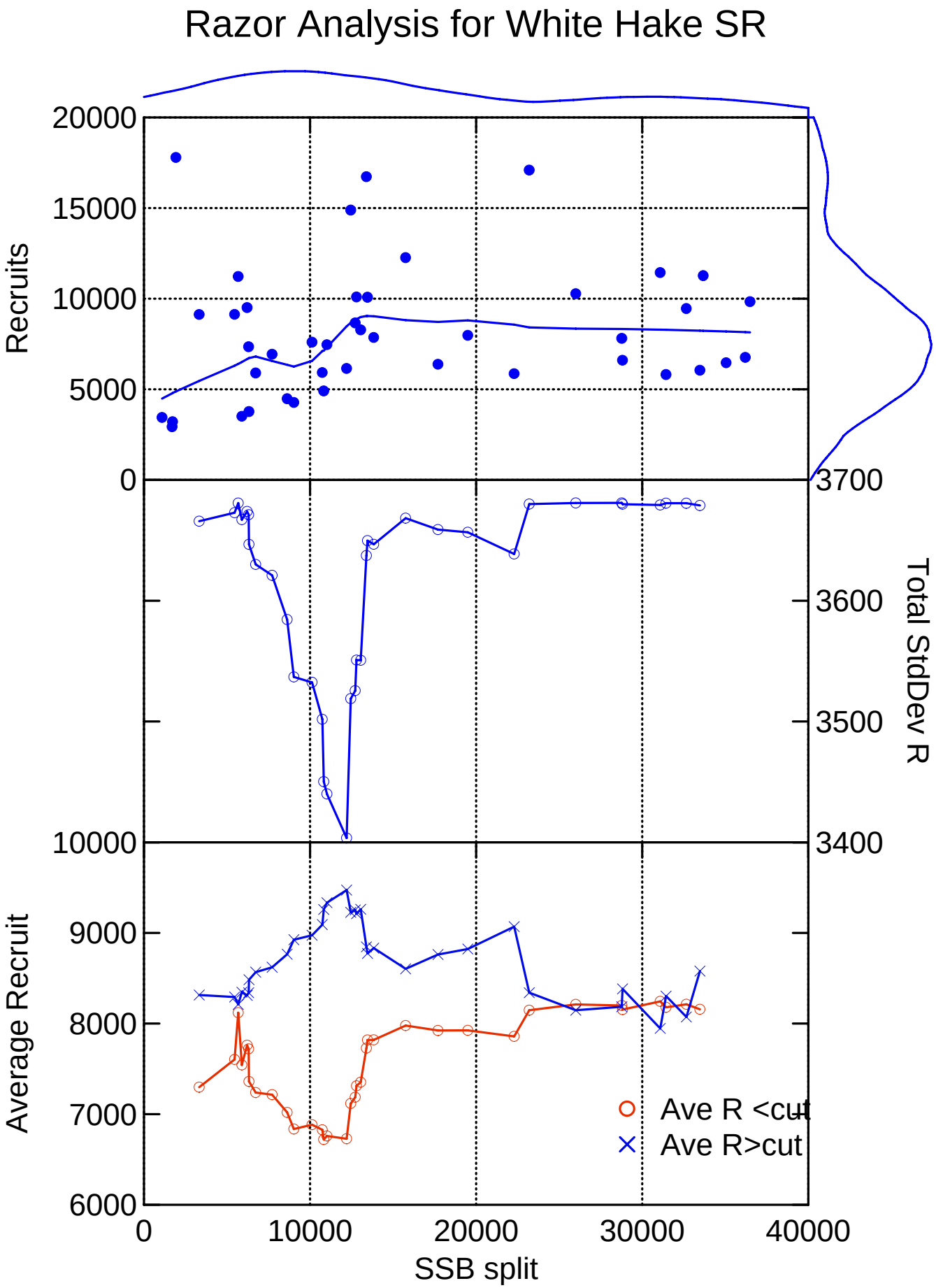
Term of Reference 4
May 2, 2008

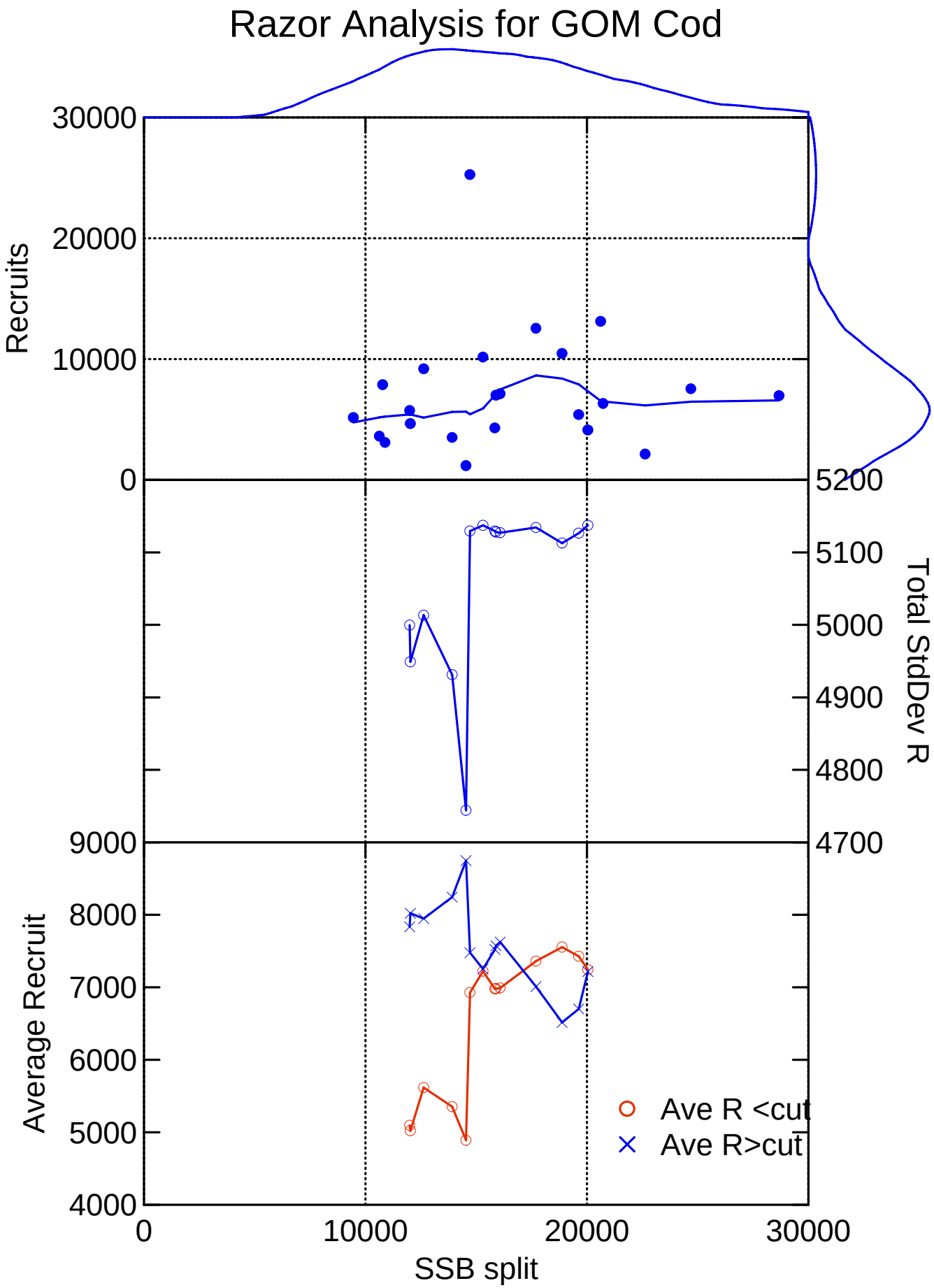
GARM Biological Reference Points
April 28- May 2, 2008

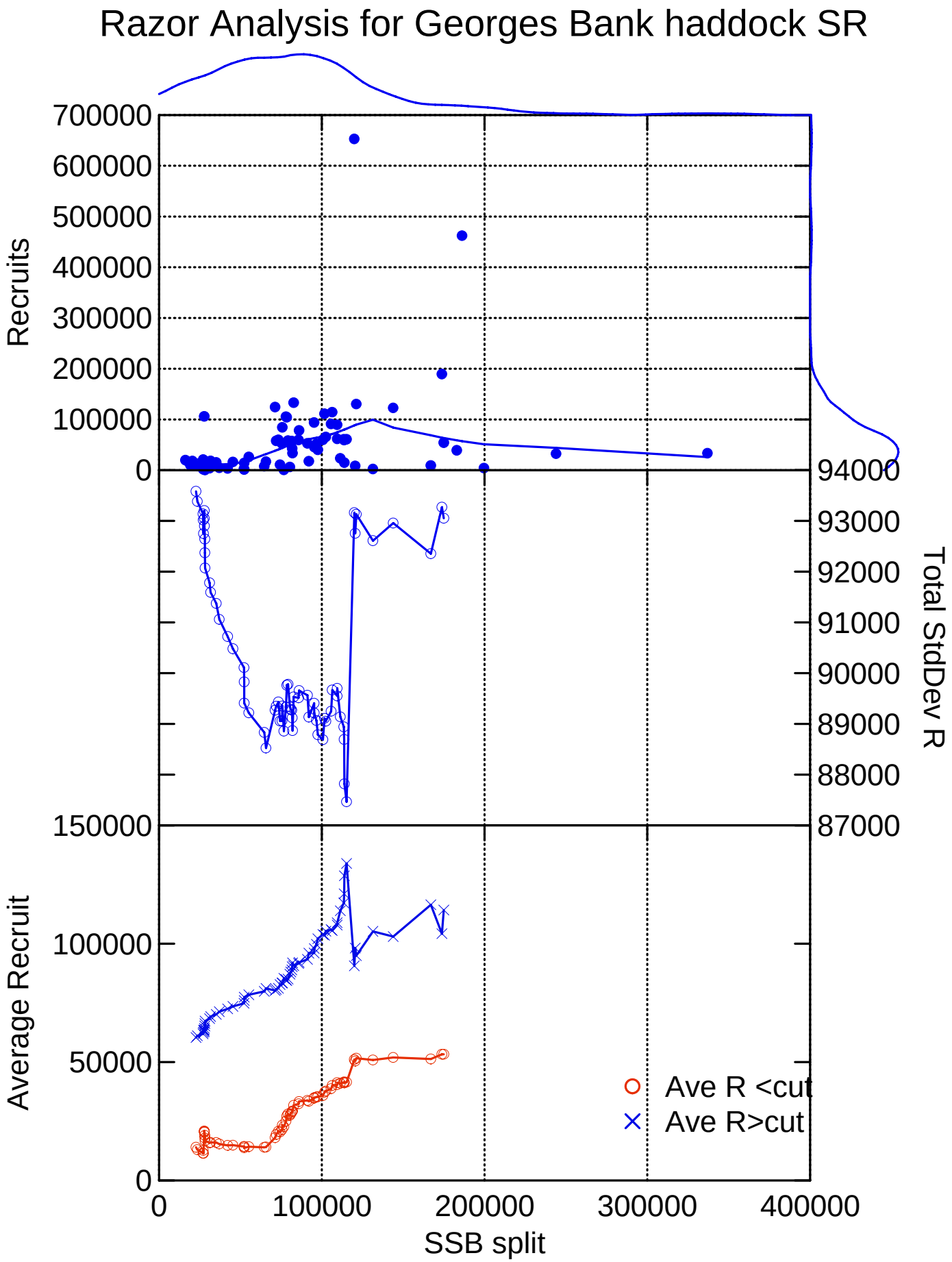
This information is distributed solely for the purpose of pre-dissemination peer review. It has not been formally disseminated by NOAA. It does not represent any final agency determination or policy.

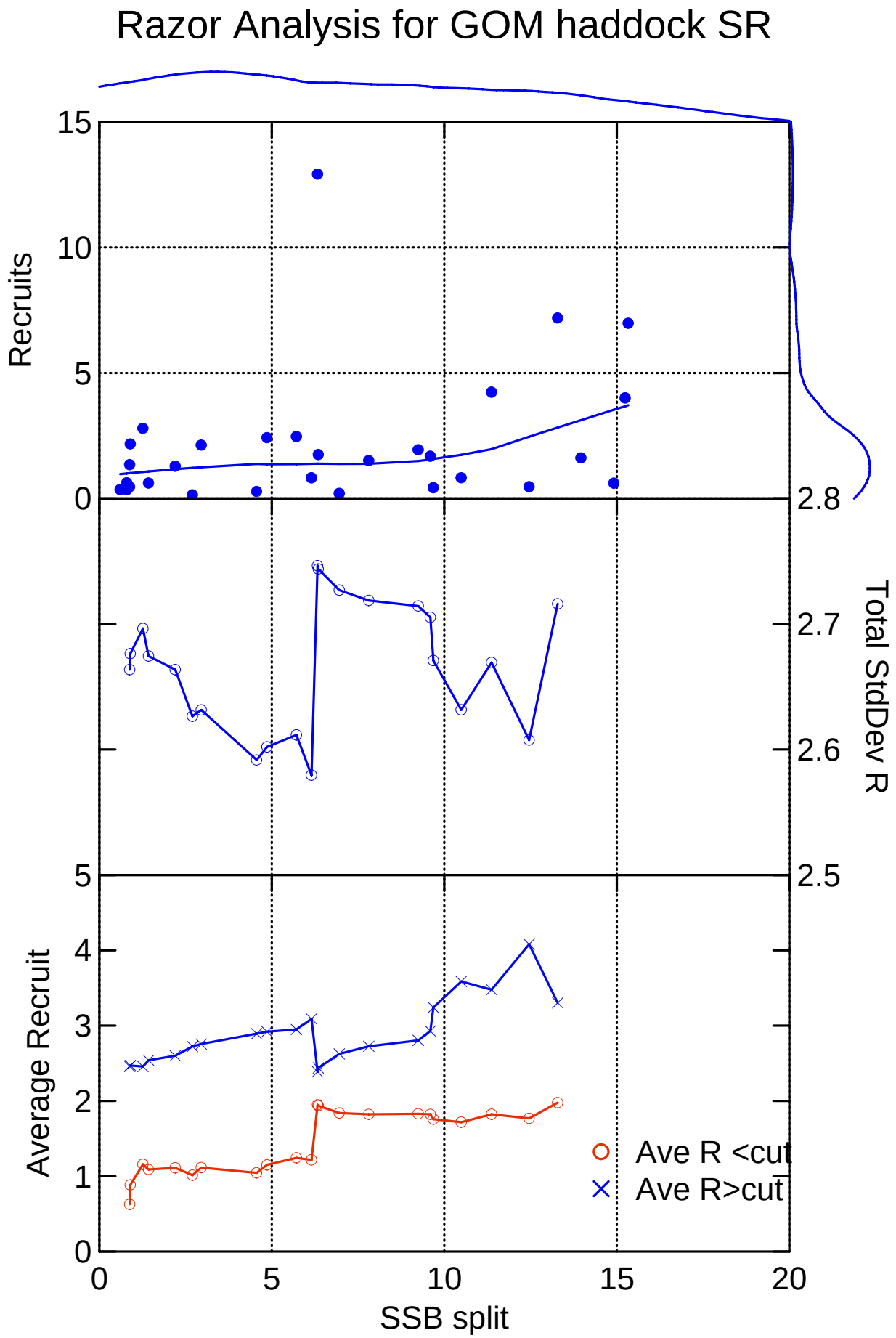

Razor Analysis for GB cod (ASAP) SR
Recruits
50000
40000
30000
20000
10000
0
Total StdDev R
9200
9000
8800
8600
8400
8200
8000
Average Recruit
20000
15000
10000
5000
Ave R <cut
Ave R>cut
10000
20000
30000
40000
50000
60000
70000
80000
90000
100000
110000
SSB split

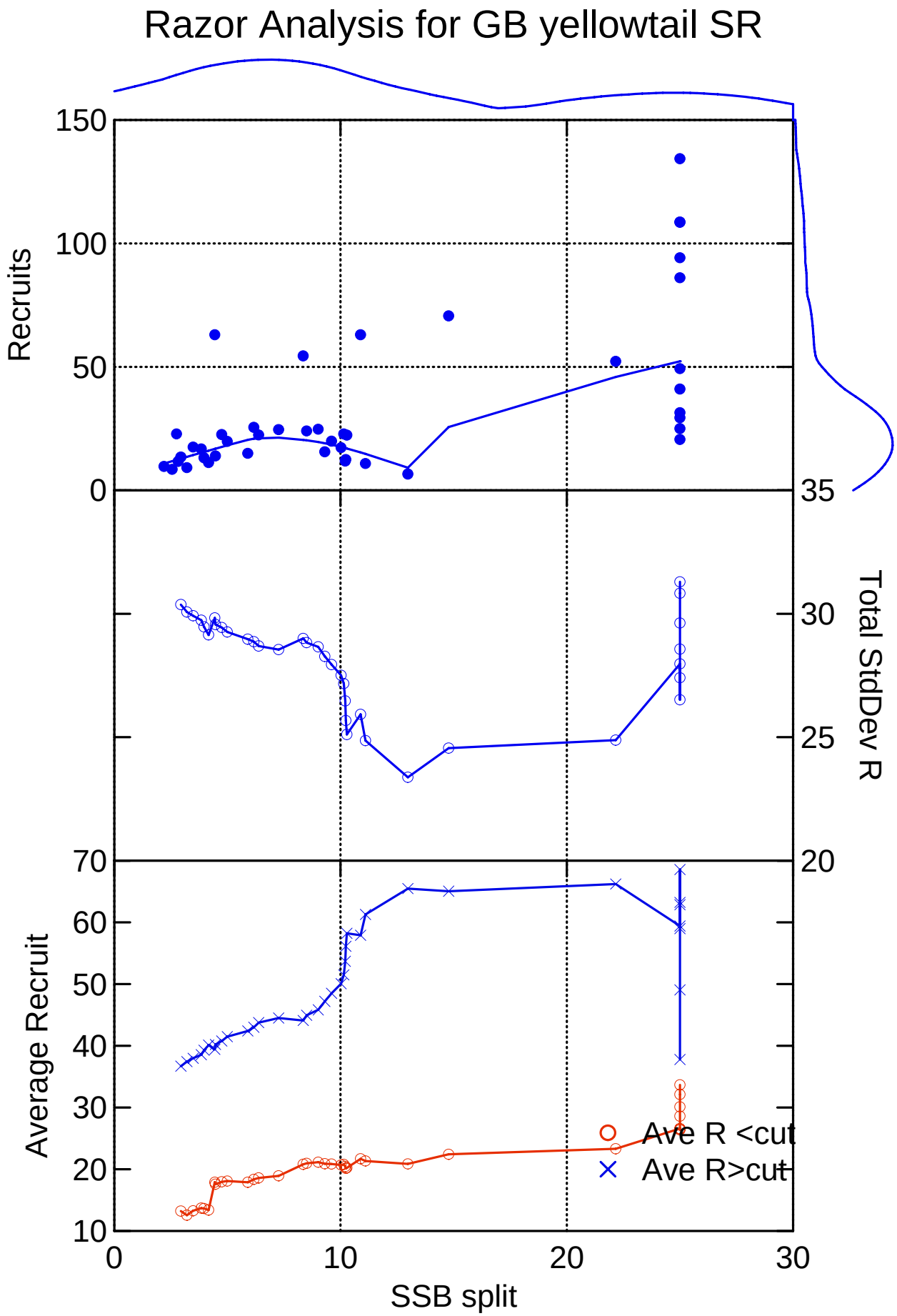

Razor Analysis for GBcod (VPA) SR
Recruits
50000
40000
30000
20000
10000
0
11000
10000
9000
8000
7000
Total StdDev R
30000
20000
10000
0
Average Recruit
Ave R <cut
Ave R>cut
10000
20000
30000
40000
50000
60000
70000
80000
90000
SSB split

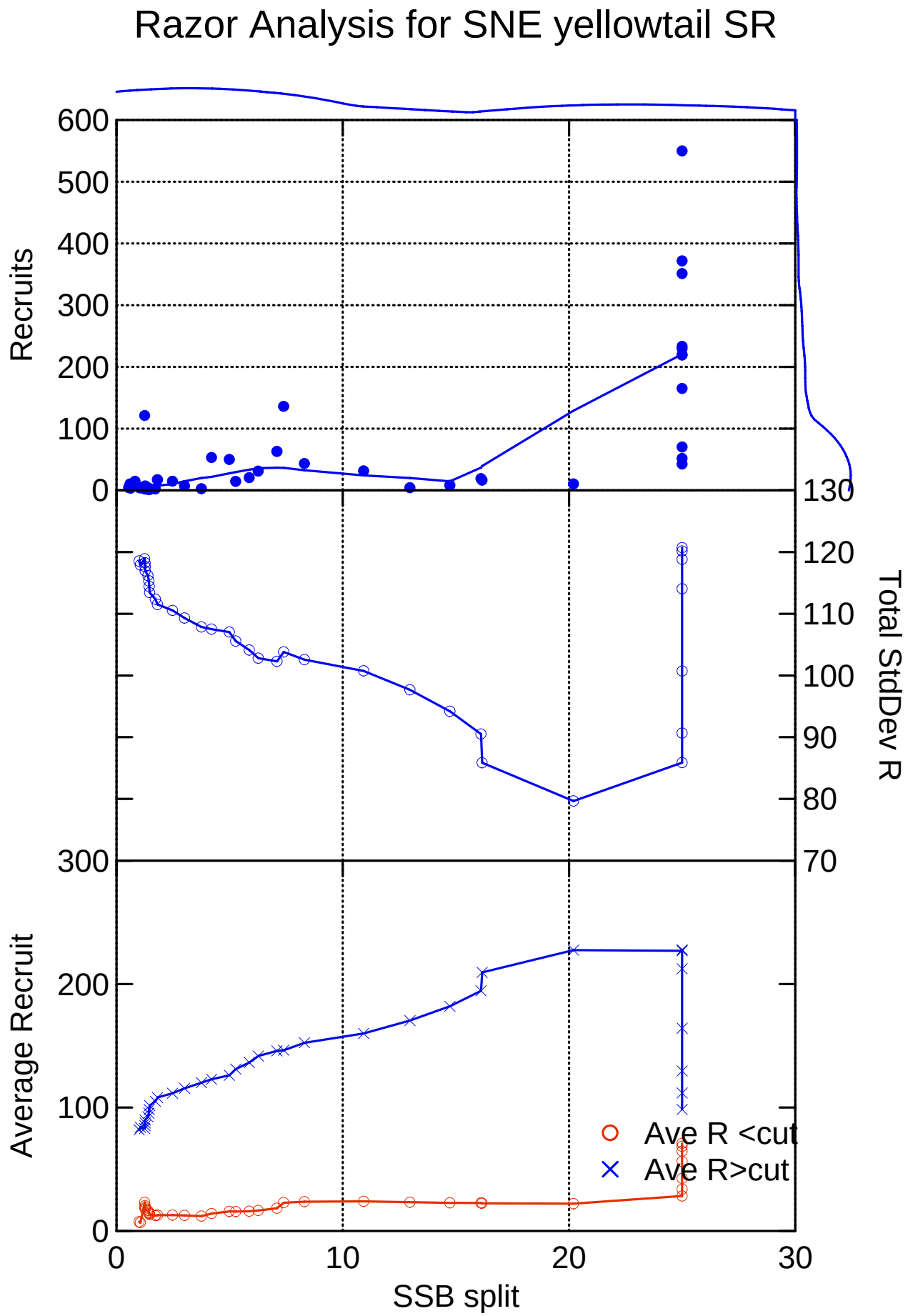

Razor Analysis for White Hake SR
Recruits
20000
15000
10000
5000
0
Total StdDev R
3700
3600
3500
3400
Average Recruit
10000
9000
8000
7000
6000
Ave R <cut
Ave R>cut
0
10000
20000
30000
40000
SSB split

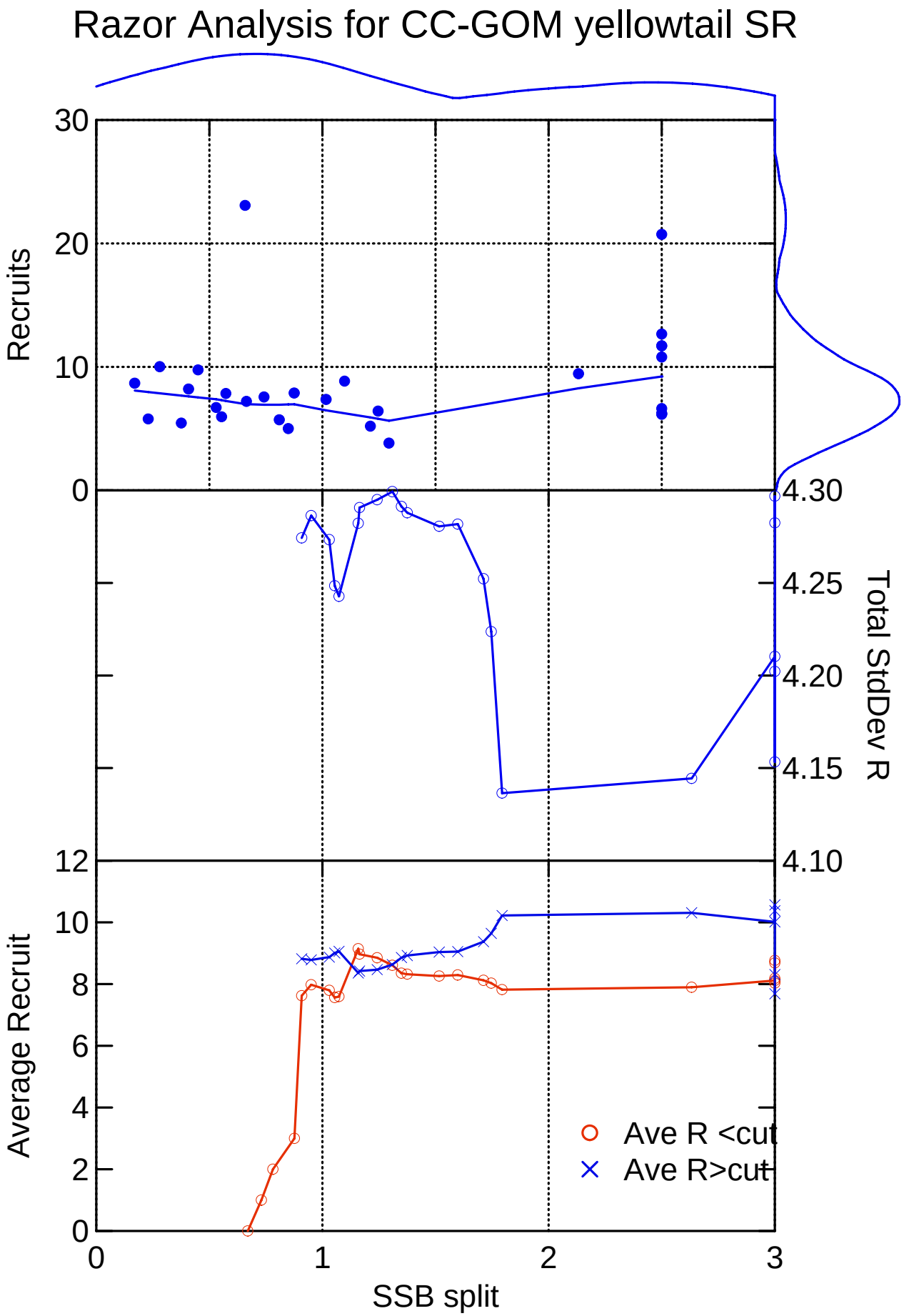

Razor Analysis for GOM Cod
Recruits
30000
20000
10000
0
Total StdDev R
5200
5100
5000
4900
4800
4700
Average Recruit
9000
8000
7000
6000
5000
4000
Ave R <cut
Ave R>cut
0
10000
20000
30000
SSB split

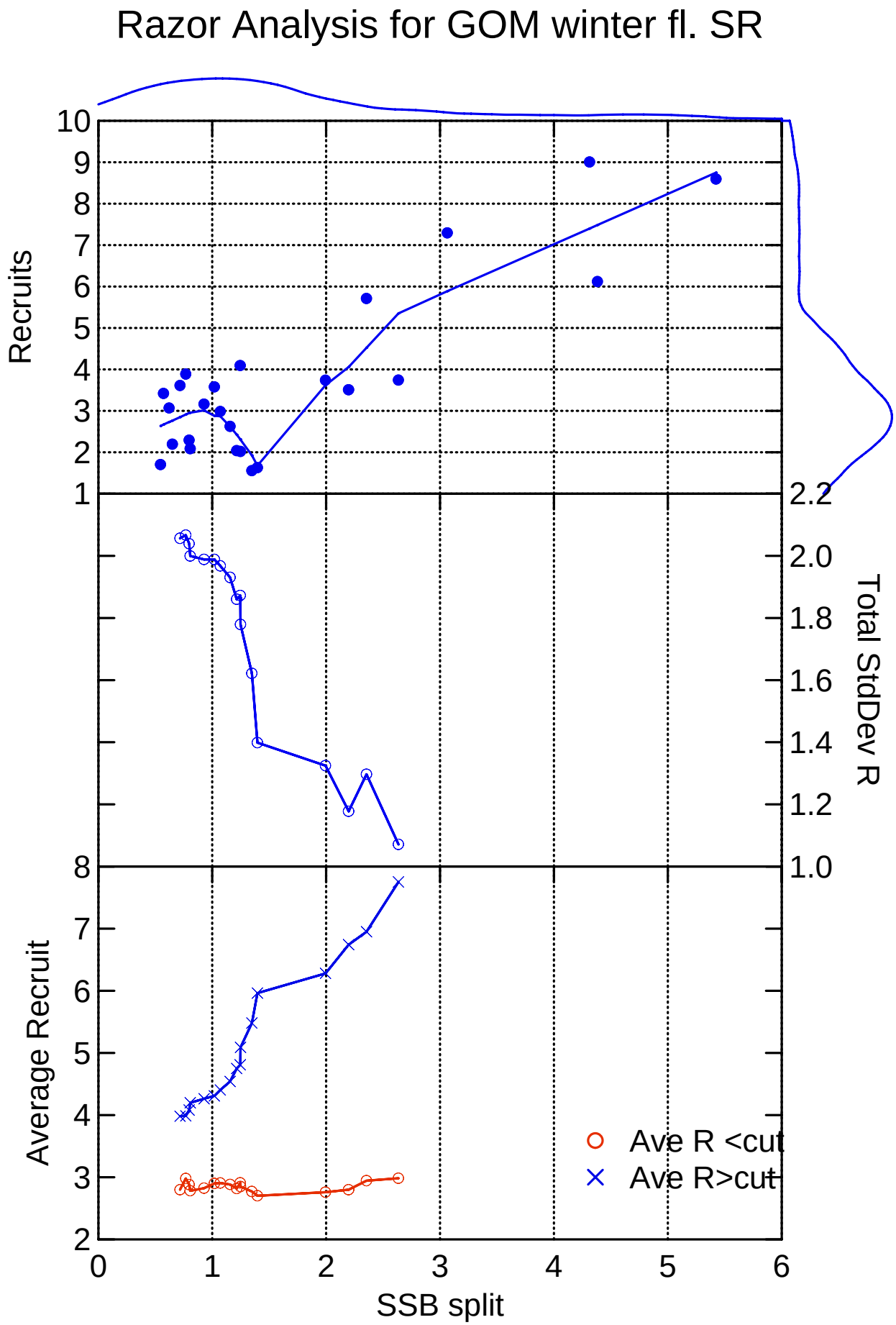

Razor Analysis for Georges Bank haddock SR
Recruits
700000
600000
500000
400000
300000
200000
100000
0
Total StdDev R
94000
93000
92000
91000
90000
89000
88000
87000
Average Recruit
150000
100000
50000
0
Ave R <cut
Ave R>cut
0
100000
200000
300000
400000
SSB split

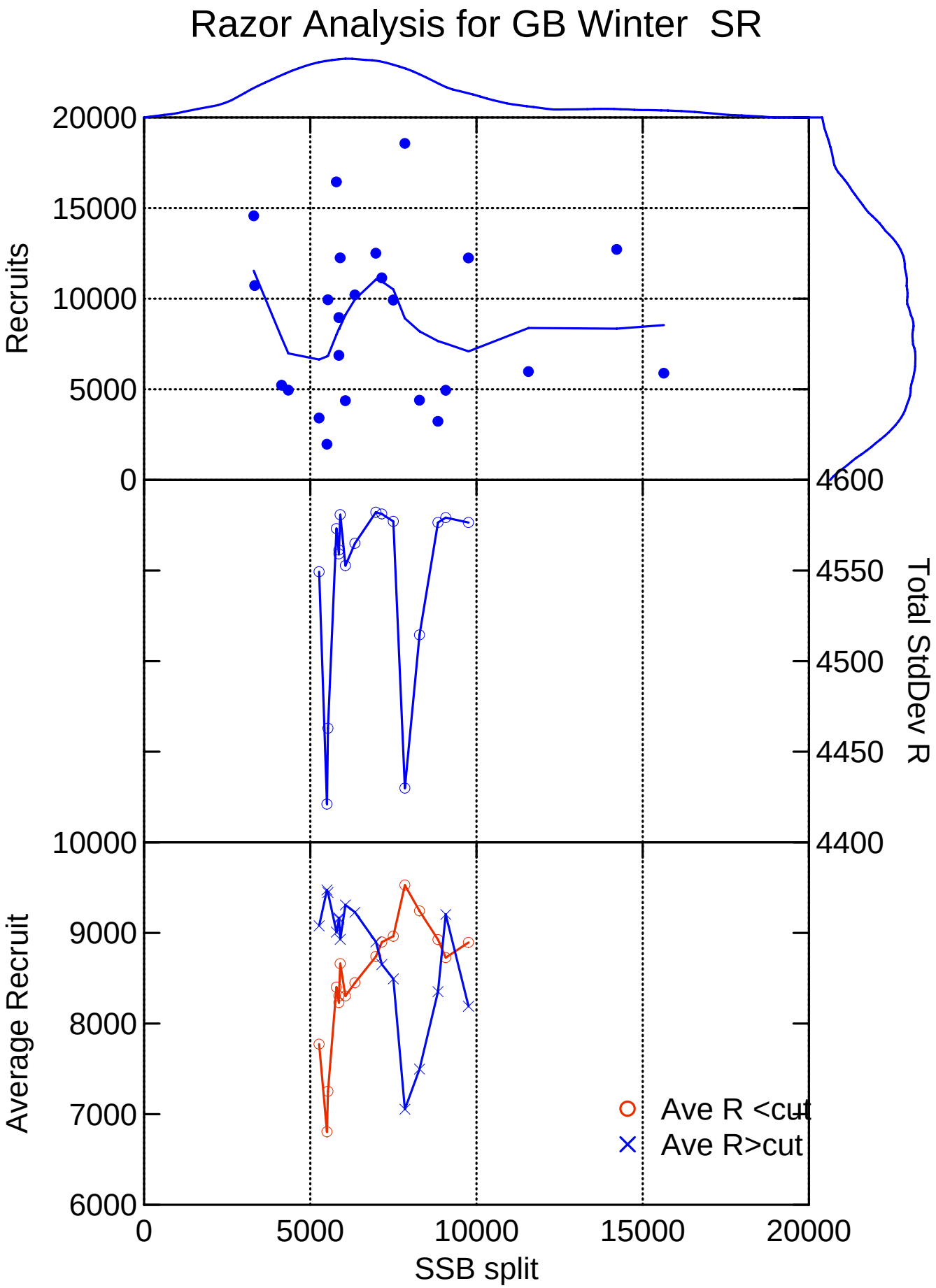

Razor Analysis for GOM haddock SR
Recruits
Total StdDev R
Average Recruit
SSB split
Ave R <cut
Ave R>cut
0
5
10
15
20
2.5
2.6
2.7
2.8
1
2
3
4

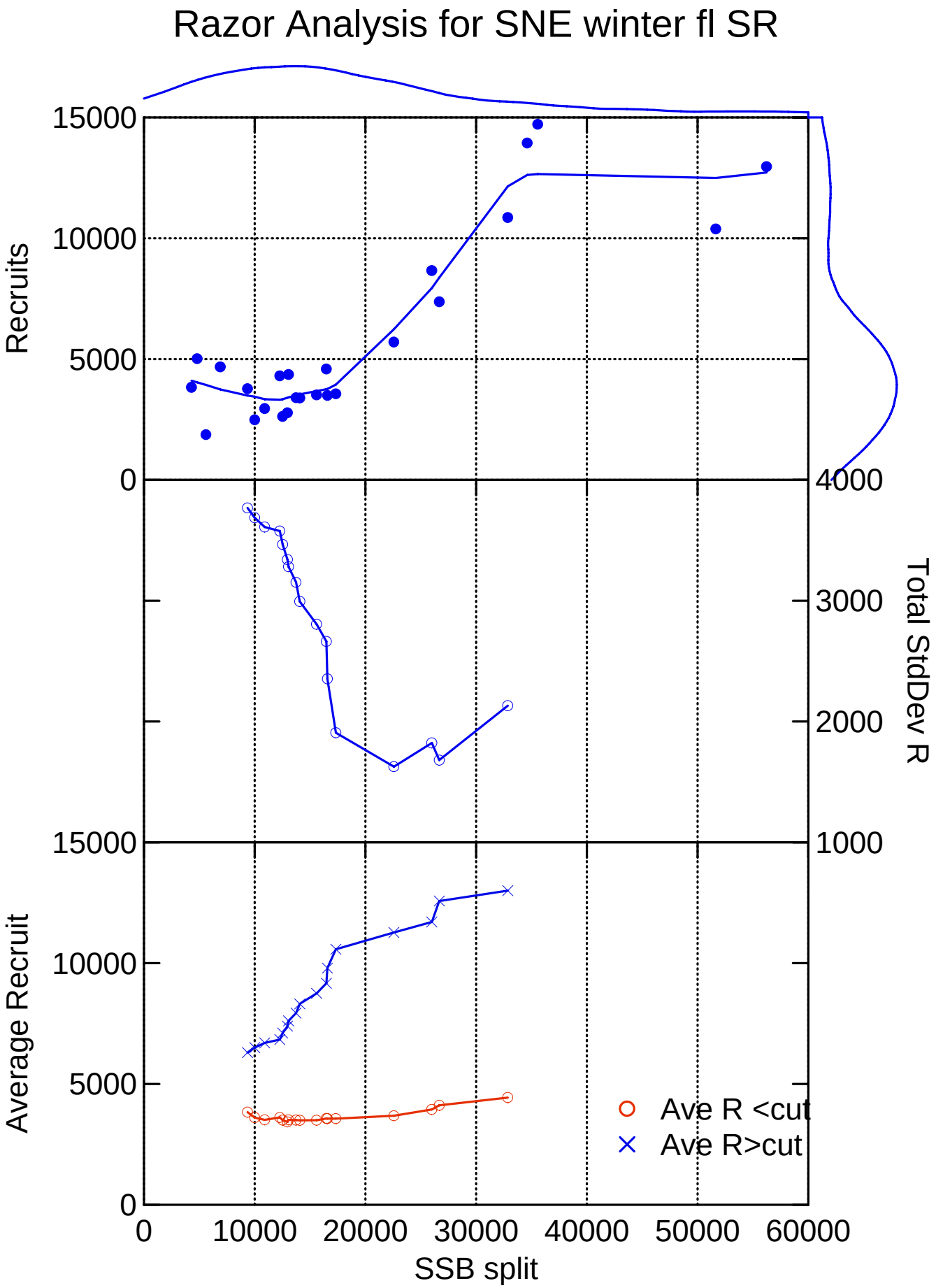

Razor Analysis for GB yellowtail SR
Recruits
150
100
50
0
35
30
25
20
Total StdDev R
70
60
50
40
30
20
10
Average Recruit
Ave R <cut
Ave R>cut
0
10
20
30
SSB split

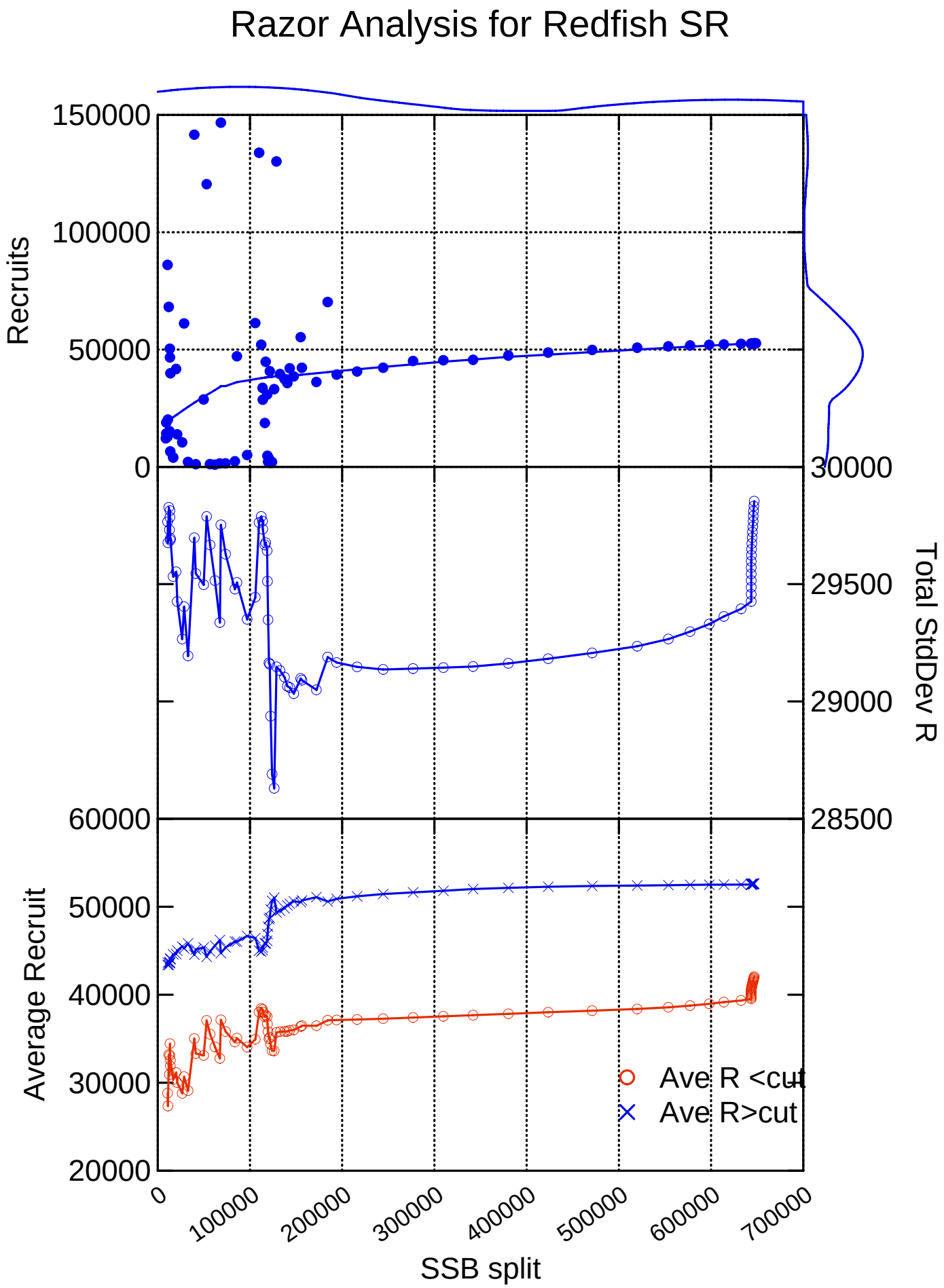

Razor Analysis for SNE yellowtail SR
Recruits
600
500
400
300
200
100
0
Total StdDev R
130
120
110
100
90
80
70
Average Recruit
300
200
100
0
Ave R <cut
Ave R>cut
0
10
20
30
SSB split

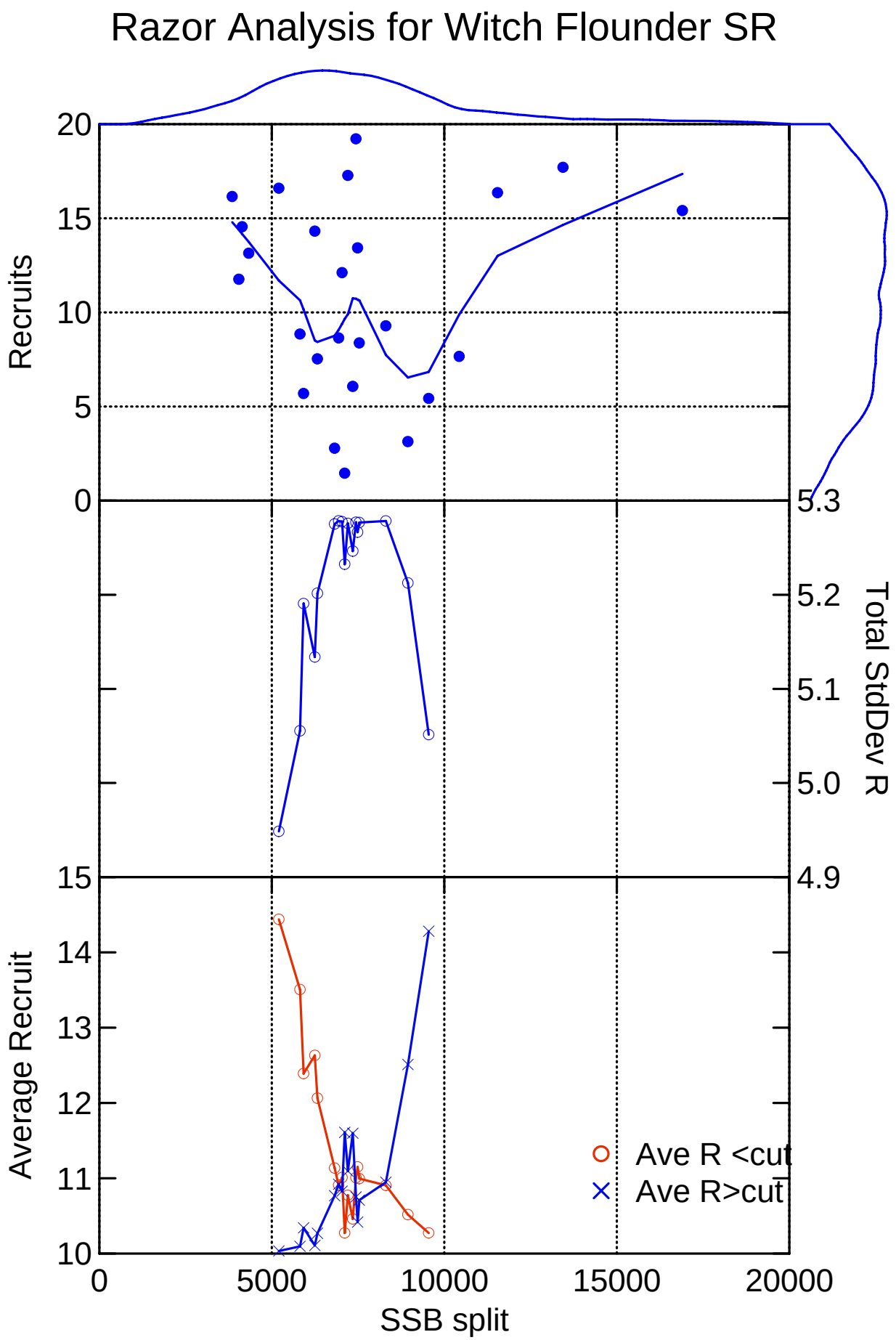

Razor Analysis for CC-GOM yellowtail SR
Recruits
30
20
10
0
Total StdDev R
4.30
4.25
4.20
4.15
4.10
Average Recruit
12
10
8
6
4
2
0
Ave R <cut
Ave R>cut
0
1
2
3
SSB split


Razor Analysis for GOM winter fl. SR
Recruits
Total StdDev R
Average Recruit
SSB split
Ave R <cut
Ave R>cut
10
9
8
7
6
5
4
3
2
1
2.2
2.0
1.8
1.6
1.4
1.2
1.0
8
7
6
5
4
3
2
0
1
2
3
4
5
6


Razor Analysis for GB Winter SR
Recruits
20000
15000
10000
5000
0
Total StdDev R
4600
4550
4500
4450
4400
Average Recruit
10000
9000
8000
7000
6000
Ave R <cut
Ave R>cut
0
5000
10000
15000
20000
SSB split


Razor Analysis for SNE winter fl SR
Recruits
15000
10000
5000
0
4000
3000
2000
1000
Total StdDev R
Average Recruit
15000
10000
5000
0
Ave R <cut
Ave R>cut
0
10000
20000
30000
40000
50000
60000
SSB split


Razor Analysis for Redfish SR
Recruits
150000
100000
50000
0
30000
29500
29000
28500
Total StdDev R
60000
50000
40000
30000
20000
Average Recruit
Ave R <cut
Ave R>cut
0
100000
200000
300000
400000
500000
600000
700000
SSB split


Razor Analysis for Witch Flounder SR
Recruits
20
15
10
5
0
Total StdDev R
5.3
5.2
5.1
5.0
4.9
Average Recruit
15
14
13
12
11
10
Ave R <cut
Ave R>cut
0
5000
10000
15000
20000
SSB split