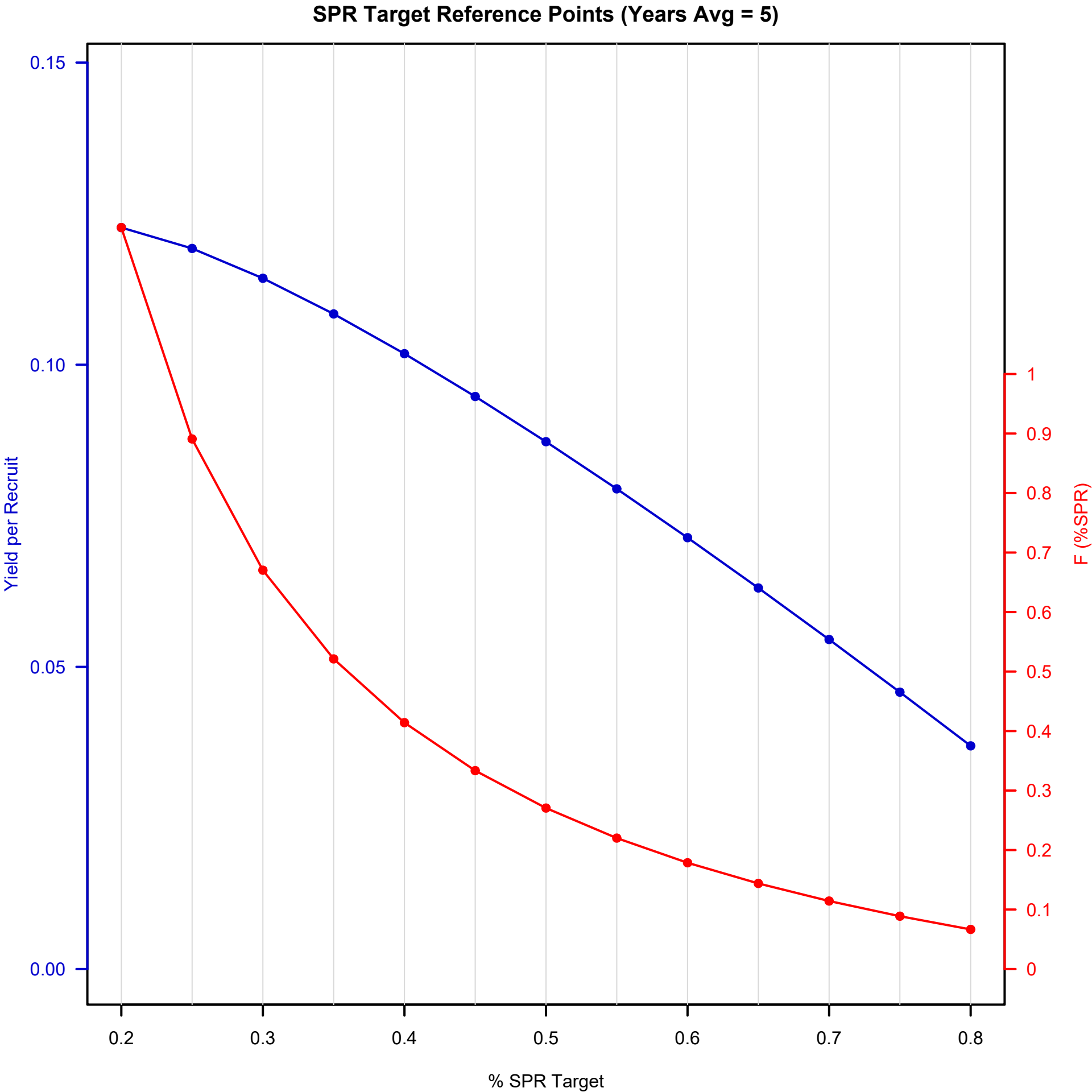
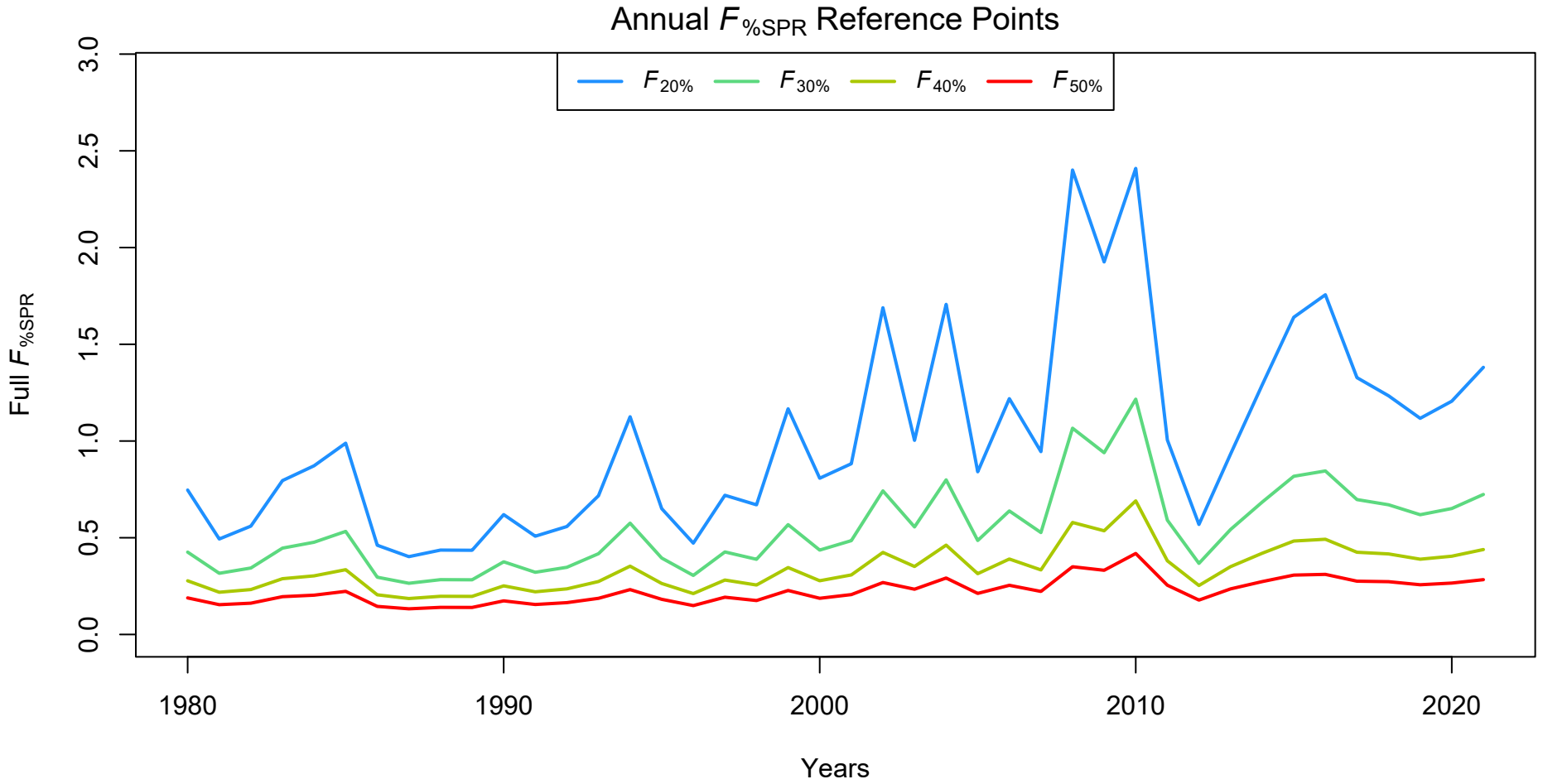
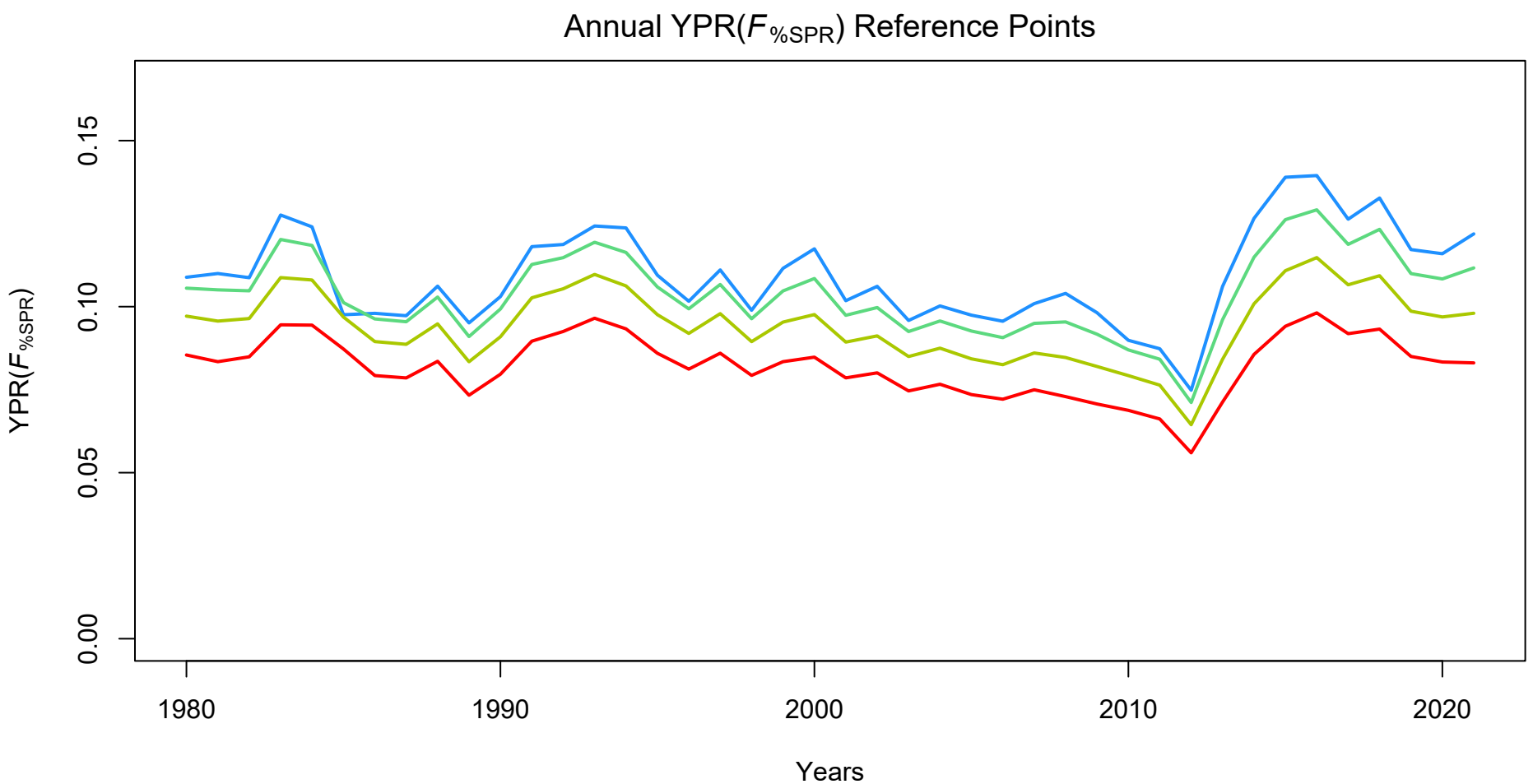
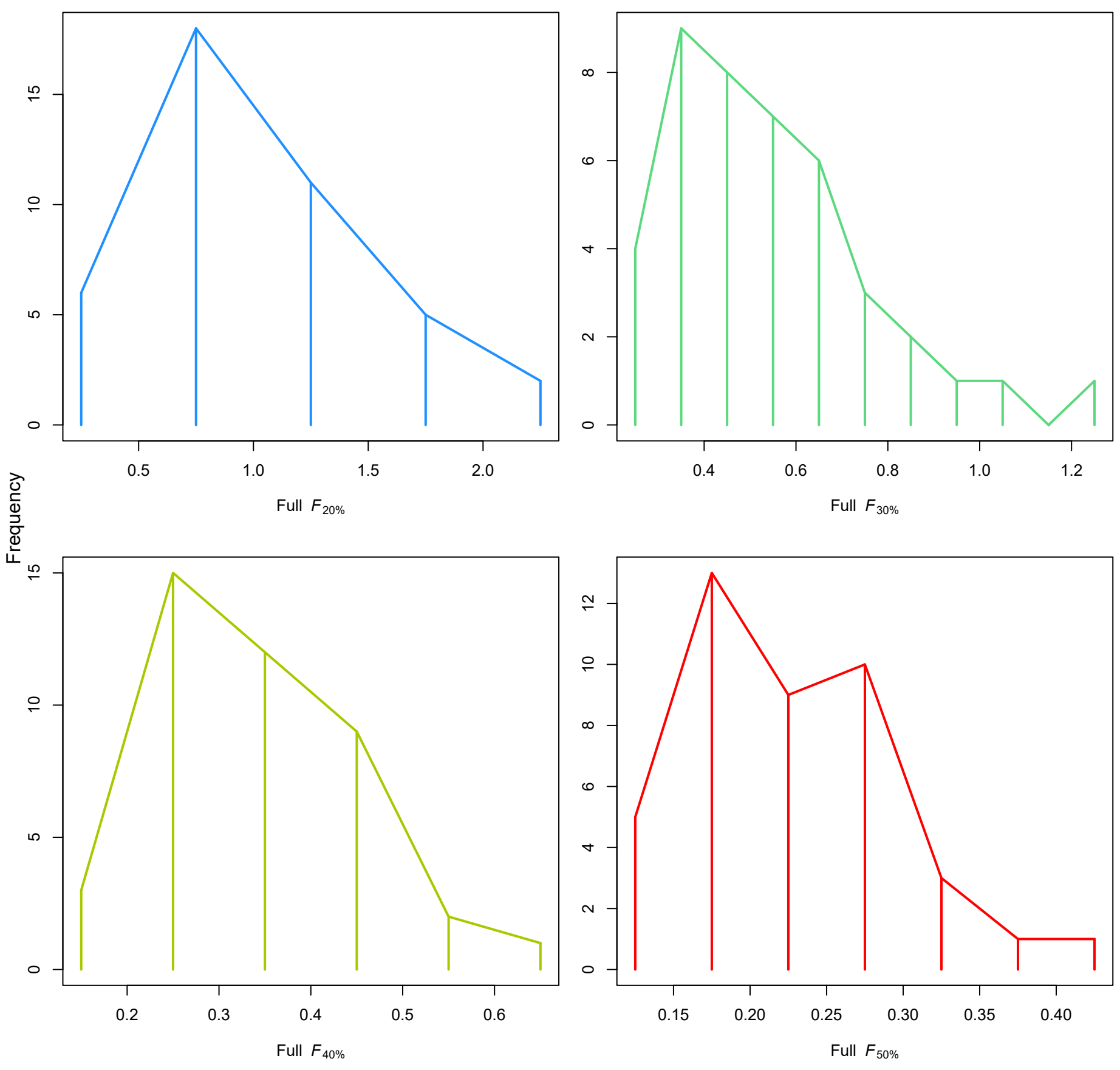

SPR Target Reference Points (Years Avg = 5)
Yield per Recruit
F (%SPR)
% SPR Target
0.15
0.10
0.05
0.00
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.2
0.3
0.4
0.5
0.6
0.7
0.8

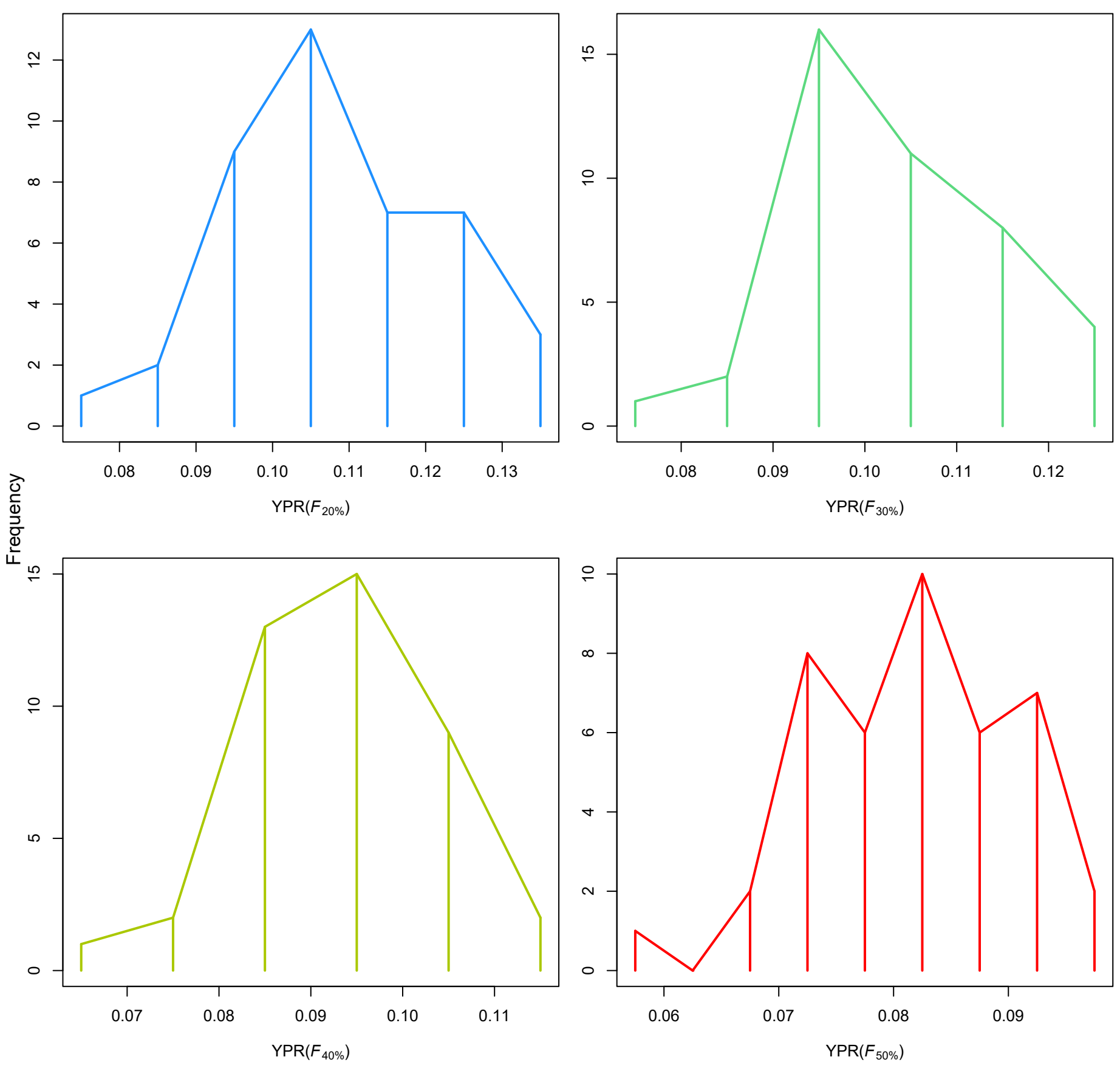
SPR Target Reference Points (Years Avg = 5)

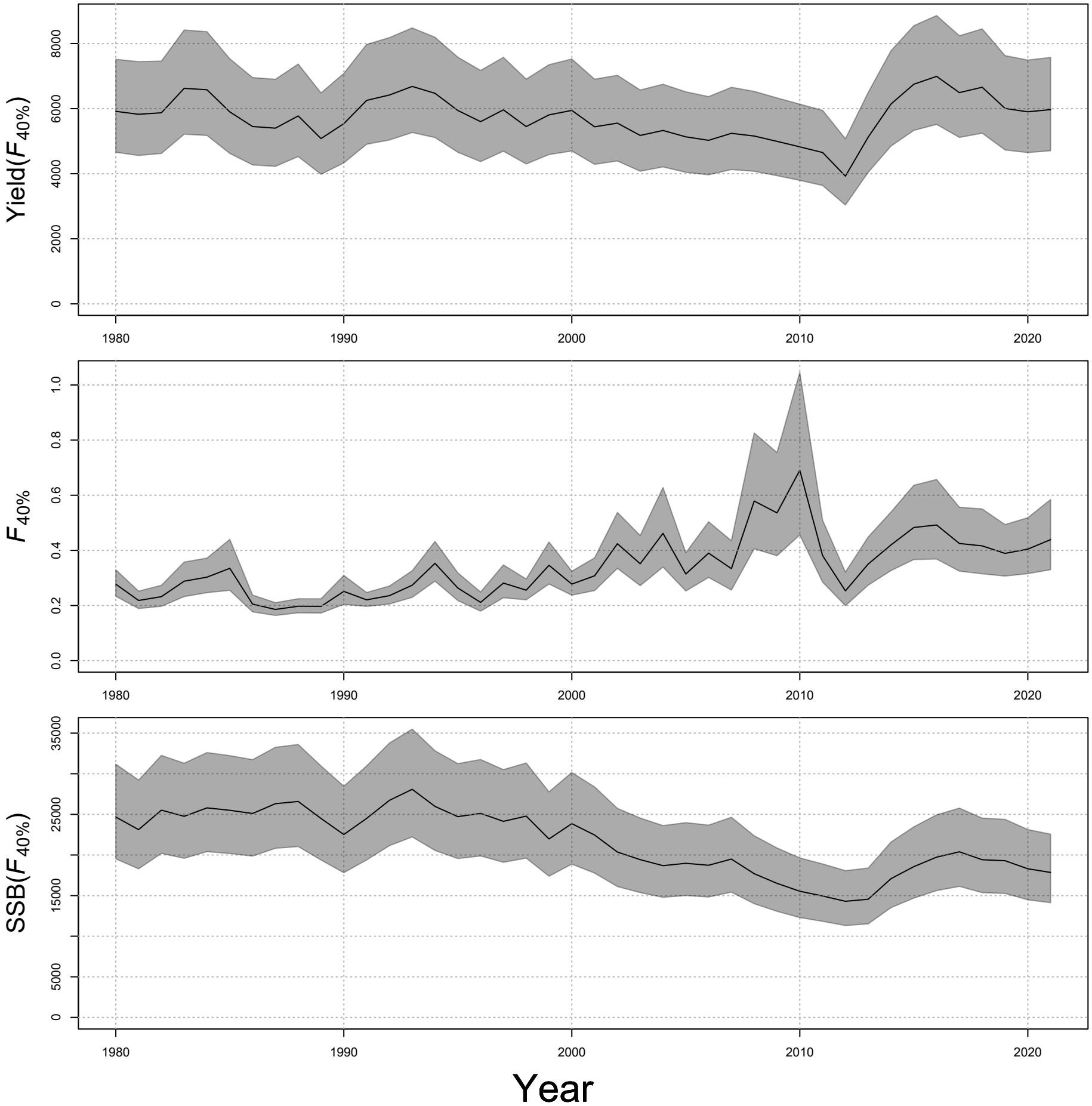
% SPR	F(%SPR)	YPR
0.2	1.2461	0.1227
0.25	0.8909	0.1192
0.3	0.6703	0.1143
0.35	0.5212	0.1084
0.4	0.4141	0.1018
0.45	0.3335	0.0947
0.5	0.2706	0.0873
0.55	0.2201	0.0795
0.6	0.1786	0.0714
0.65	0.1439	0.0631
0.7	0.1143	0.0545
0.75	0.0888	0.0458
0.8	0.0666	0.0369

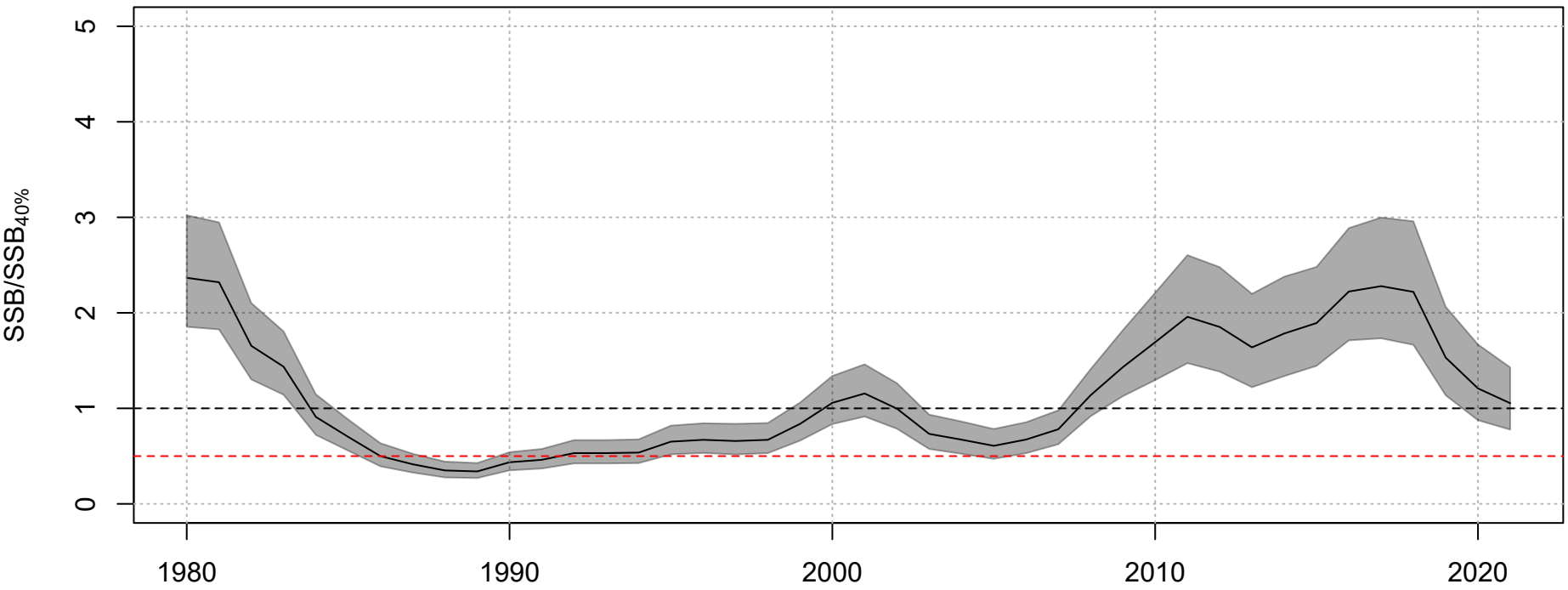

Annual $F_{\%SPR}$ Reference Points
$F_{20\%}$
$F_{30\%}$
$F_{40\%}$
$F_{50\%}$
Full $F_{\%SPR}$
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1980
1990
2000
2010
2020
Years

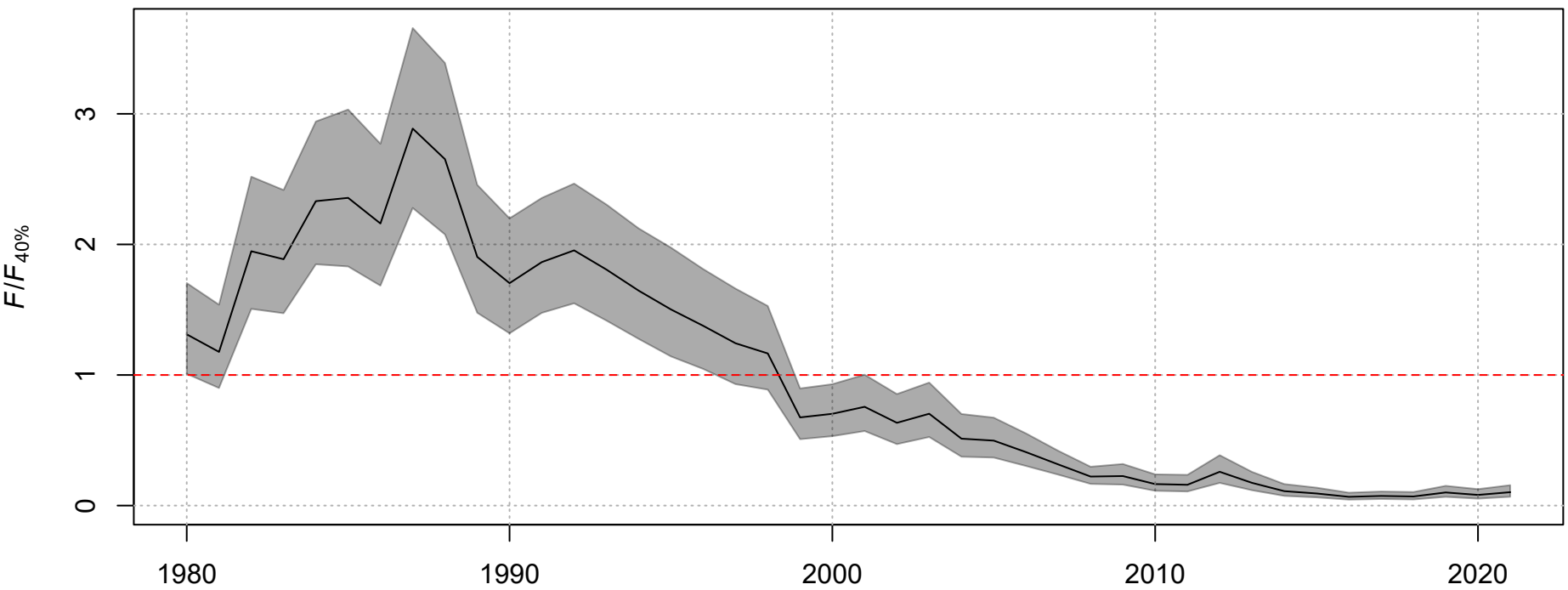

Annual YPR($F_{\%SPR}$) Reference Points
YPR($F_{\%SPR}$)
0.00
0.05
0.10
0.15
1980
1990
2000
2010
2020
Years

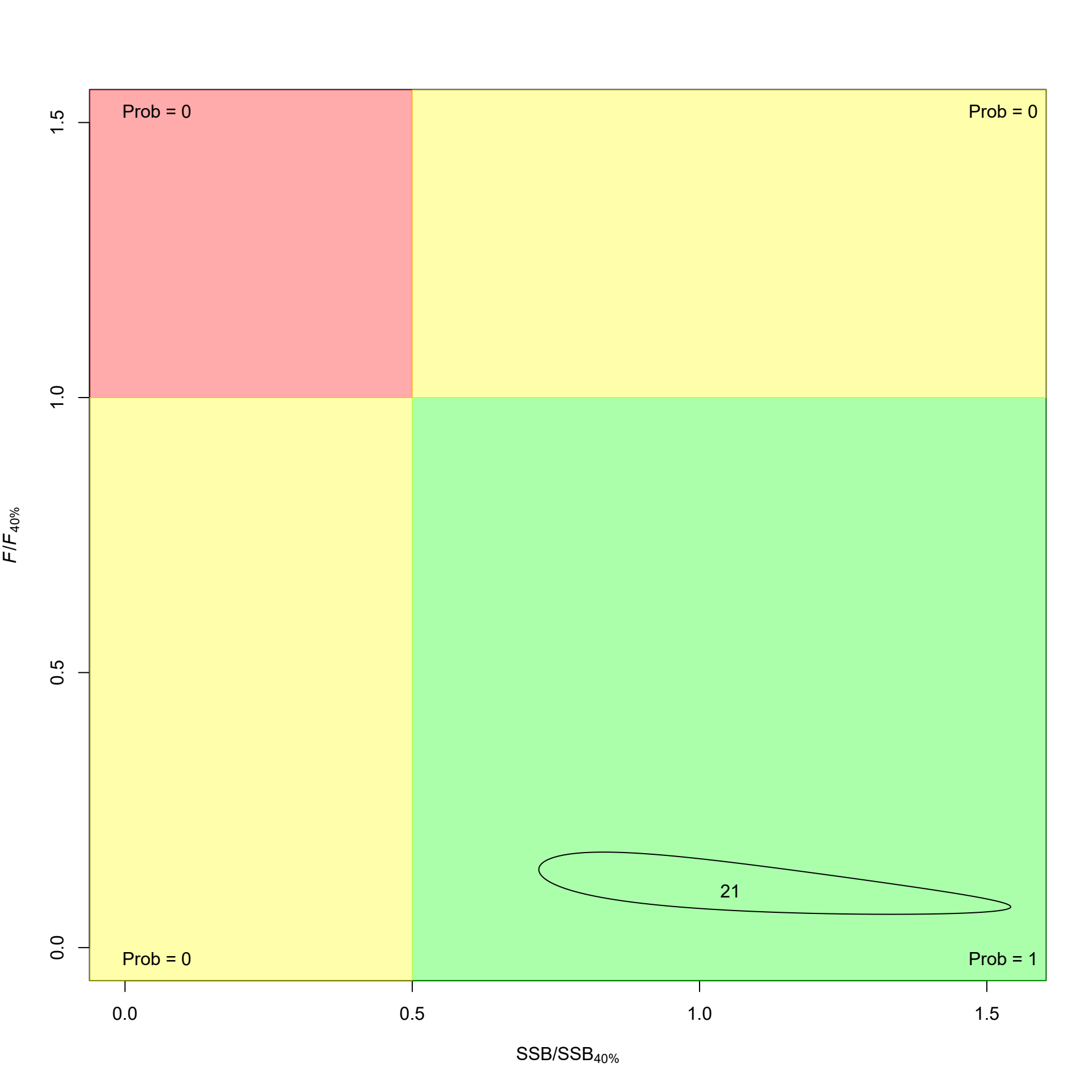

Frequencies of Annual $F_{\%SPR}$ Reference Points
Frequency
Full $F_{20\%}$
Full $F_{30\%}$
Full $F_{40\%}$
Full $F_{50\%}$

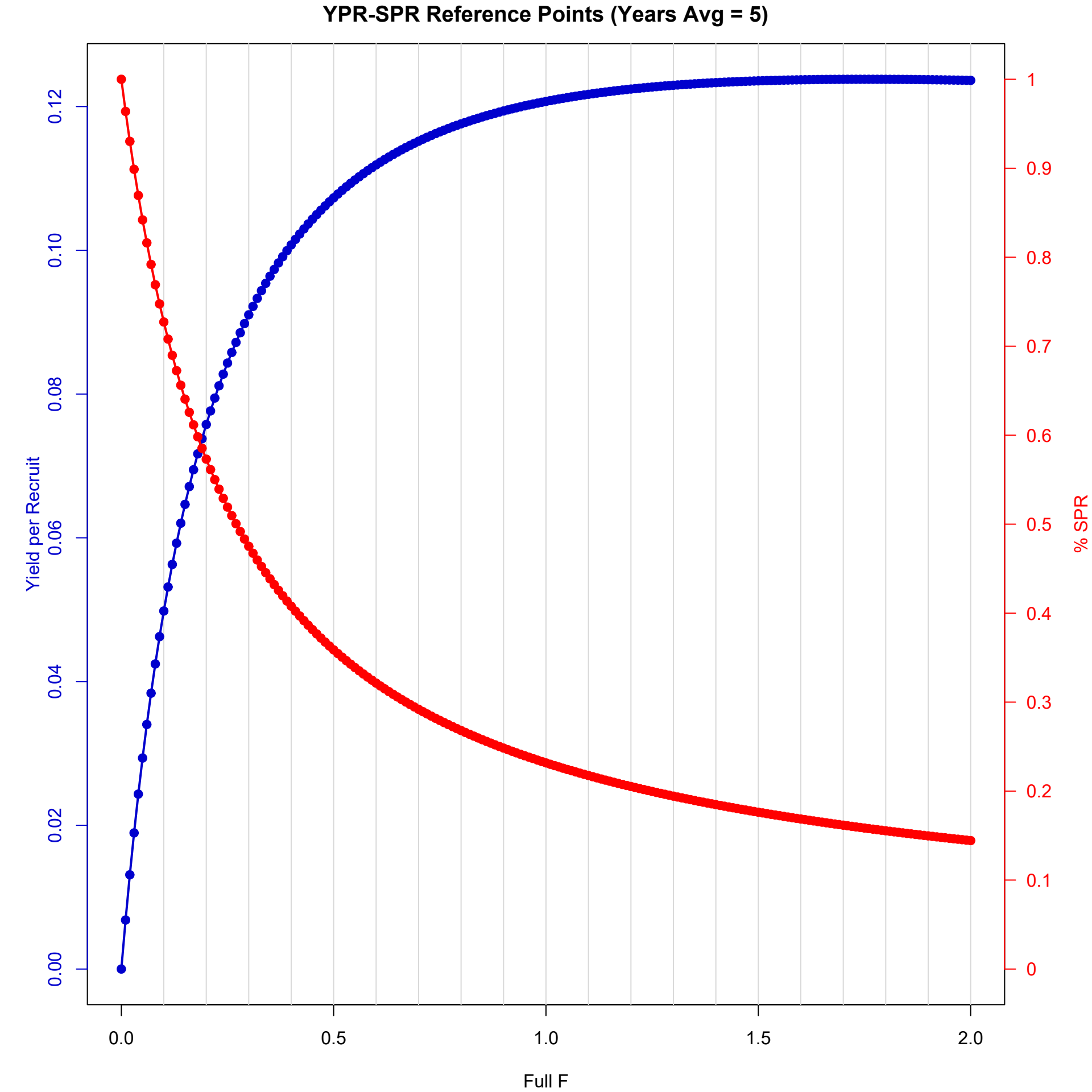

Frequencies of Annual YPR($F_{\%SPR}$) Reference Points
Frequency
YPR($F_{20\%}$)
YPR($F_{30\%}$)
YPR($F_{40\%}$)
YPR($F_{50\%}$)


Yield($F_{40\%}$)
0
2000
4000
6000
8000
1980
1990
2000
2010
2020
$F_{40\%}$
0.0
0.2
0.4
0.6
0.8
1.0
1980
1990
2000
2010
2020
SSB($F_{40\%}$)
0
5000
15000
25000
35000
1980
1990
2000
2010
2020
Year


SSB/SSB40%
0
1
2
3
4
5
1980
1990
2000
2010
2020


F/F40%
0
1
2
3
1980
1990
2000
2010
2020


Prob = 0
Prob = 0
Prob = 0
Prob = 1
21
1.5
1.0
0.5
0.0
0.0
0.5
1.0
1.5
F/F40%
SSB/SSB40%


YPR-SPR Reference Points (Years Avg = 5)
Yield per Recruit
% SPR
Full F
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0.0
0.5
1.0
1.5
2.0

YPR-SPR Reference Points (Years Avg = 5)

F	YPR	SPR	F	YPR	SPR	F	YPR	SPR
0	0	1	0.35	0.0964	0.4386	0.7	0.1152	0.2919
0.01	0.0068	0.9639	0.36	0.0973	0.4321	0.71	0.1155	0.2893
0.02	0.0131	0.9302	0.37	0.0982	0.4257	0.72	0.1157	0.2868
0.03	0.0189	0.8988	0.38	0.0991	0.4195	0.73	0.116	0.2843
0.04	0.0243	0.8695	0.39	0.0999	0.4136	0.74	0.1162	0.2818
0.05	0.0294	0.842	0.4	0.1007	0.4078	0.75	0.1165	0.2794
0.06	0.034	0.8162	0.41	0.1015	0.4022	0.76	0.1167	0.2771
0.07	0.0384	0.7919	0.42	0.1023	0.3968	0.77	0.1169	0.2747
0.08	0.0424	0.7691	0.43	0.103	0.3916	0.78	0.1172	0.2725
0.09	0.0463	0.7475	0.44	0.1037	0.3865	0.79	0.1174	0.2703
0.1	0.0498	0.7272	0.45	0.1043	0.3815	0.8	0.1176	0.2681
0.11	0.0532	0.708	0.46	0.105	0.3767	0.81	0.1178	0.2659
0.12	0.0563	0.6898	0.47	0.1056	0.372	0.82	0.118	0.2638
0.13	0.0592	0.6725	0.48	0.1062	0.3675	0.83	0.1182	0.2618
0.14	0.062	0.6561	0.49	0.1067	0.363	0.84	0.1184	0.2598
0.15	0.0647	0.6405	0.5	0.1073	0.3587	0.85	0.1186	0.2578
0.16	0.0671	0.6257	0.51	0.1078	0.3546	0.86	0.1187	0.2558
0.17	0.0695	0.6116	0.52	0.1083	0.3505	0.87	0.1189	0.2539
0.18	0.0717	0.5982	0.53	0.1088	0.3465	0.88	0.1191	0.252
0.19	0.0738	0.5853	0.54	0.1093	0.3426	0.89	0.1192	0.2502
0.2	0.0758	0.573	0.55	0.1098	0.3389	0.9	0.1194	0.2483
0.21	0.0777	0.5613	0.56	0.1102	0.3352	0.91	0.1195	0.2466
0.22	0.0794	0.5501	0.57	0.1107	0.3316	0.92	0.1197	0.2448
0.23	0.0811	0.5393	0.58	0.1111	0.3281	0.93	0.1198	0.2431
0.24	0.0828	0.529	0.59	0.1115	0.3247	0.94	0.12	0.2414
0.25	0.0843	0.5191	0.6	0.1119	0.3214	0.95	0.1201	0.2397
0.26	0.0858	0.5096	0.61	0.1123	0.3181	0.96	0.1202	0.238
0.27	0.0872	0.5005	0.62	0.1126	0.3149	0.97	0.1204	0.2364
0.28	0.0885	0.4917	0.63	0.113	0.3118	0.98	0.1205	0.2348
0.29	0.0898	0.4833	0.64	0.1133	0.3088	0.99	0.1206	0.2333
0.3	0.091	0.4752	0.65	0.1137	0.3058	1	0.1207	0.2317
0.31	0.0922	0.4673	0.66	0.114	0.3029	1.01	0.1208	0.2302
0.32	0.0933	0.4598	0.67	0.1143	0.3001	1.02	0.1209	0.2287
0.33	0.0944	0.4525	0.68	0.1146	0.2973	1.03	0.121	0.2272
0.34	0.0954	0.4454	0.69	0.1149	0.2946	1.04	0.1211	0.2258