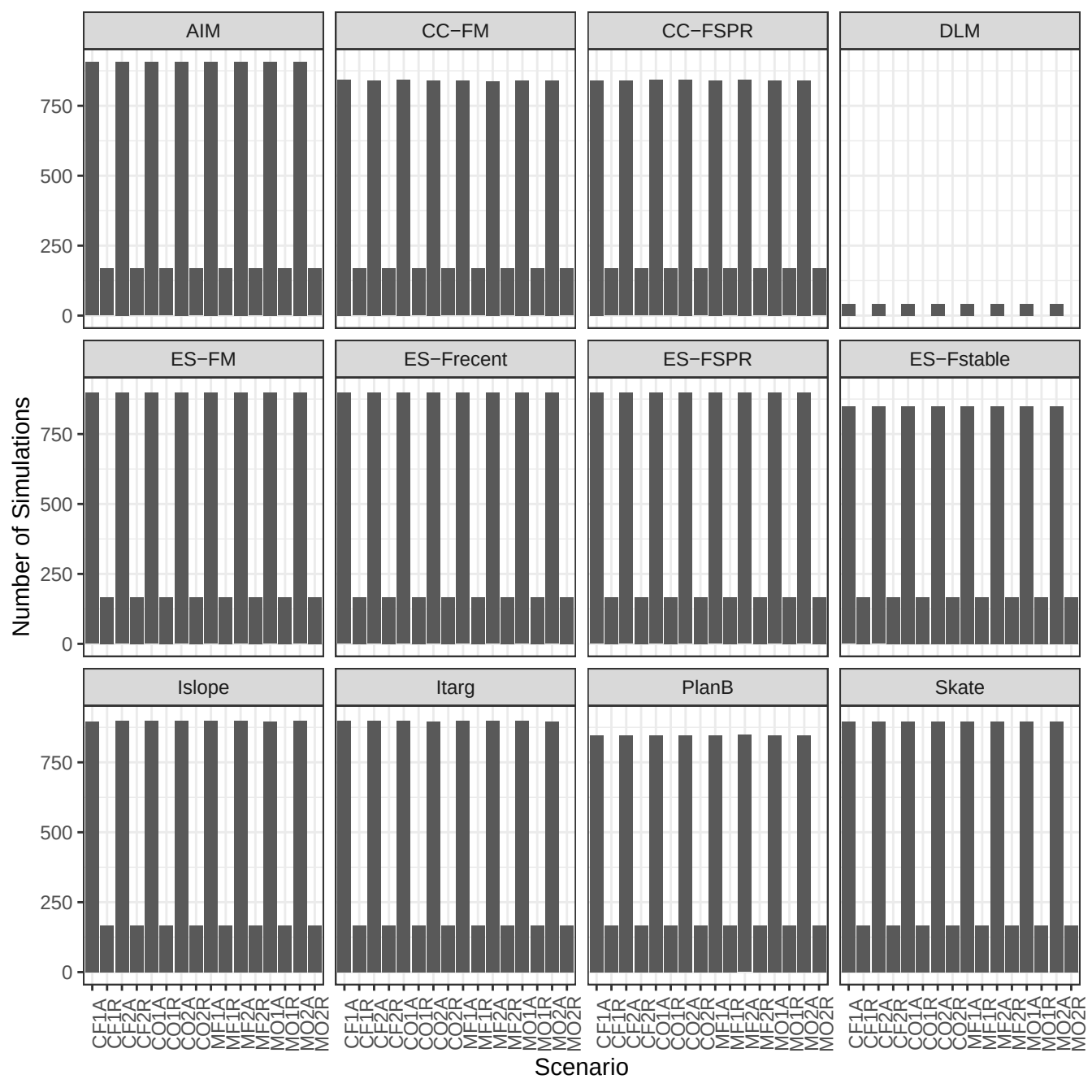
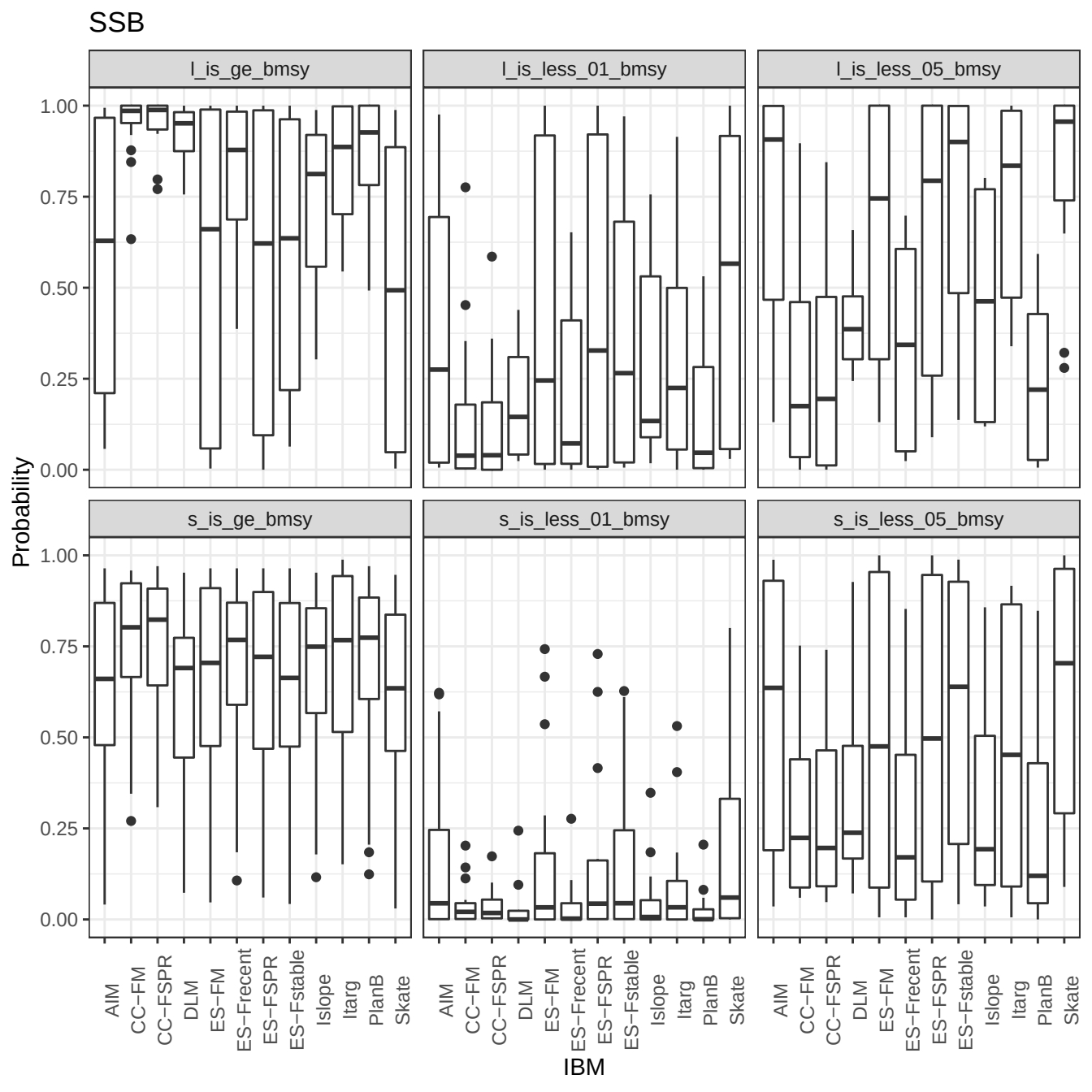
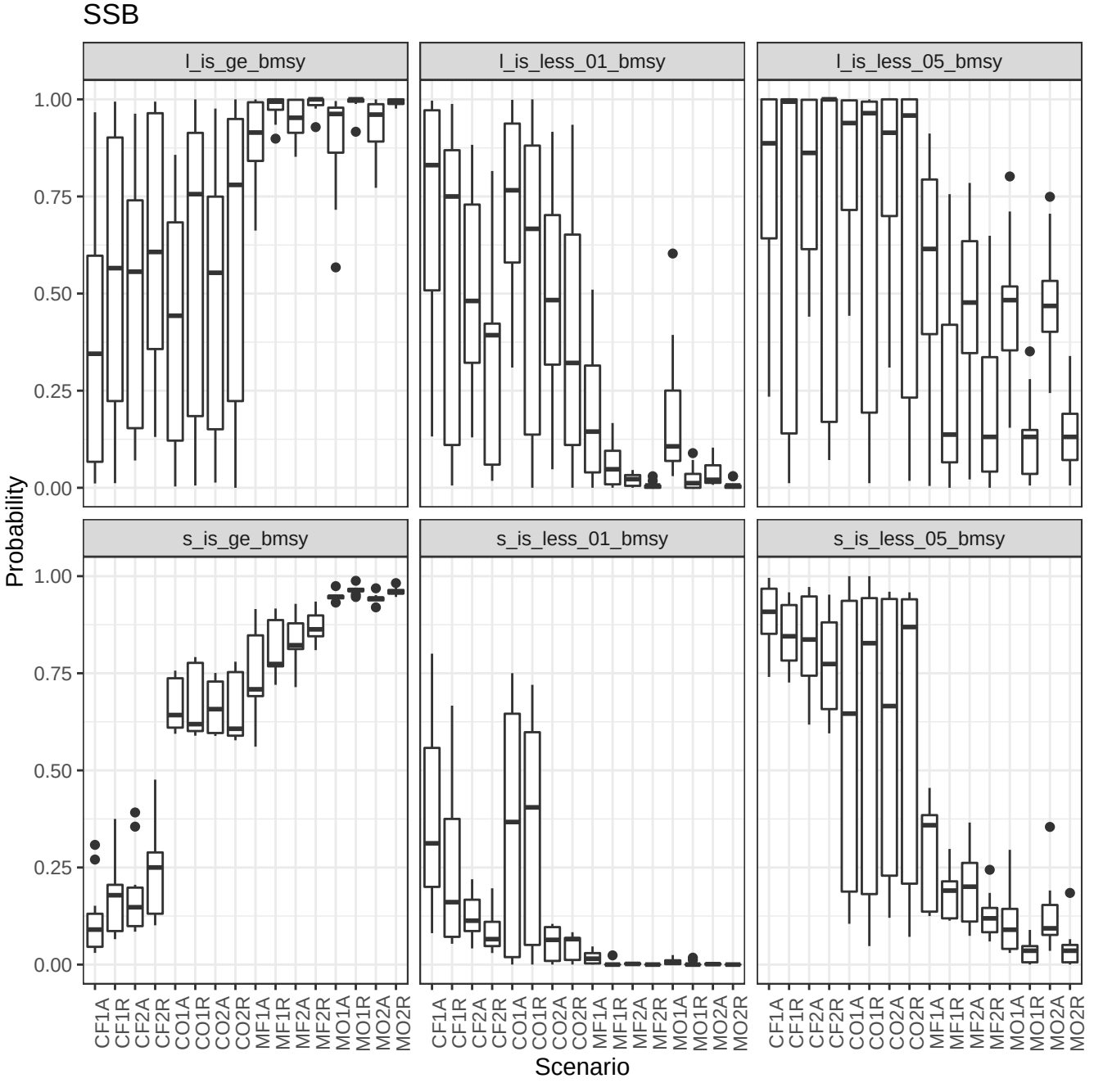
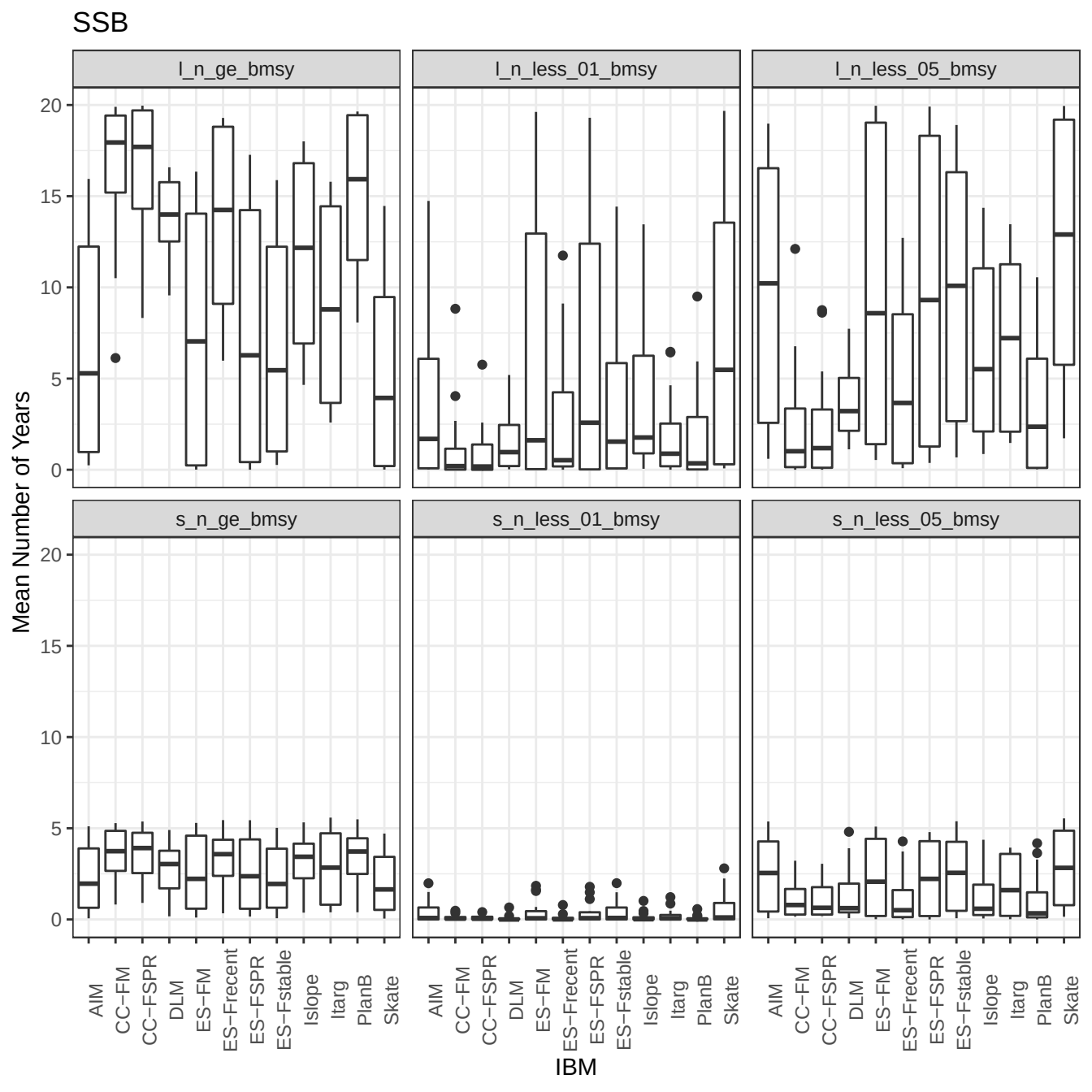
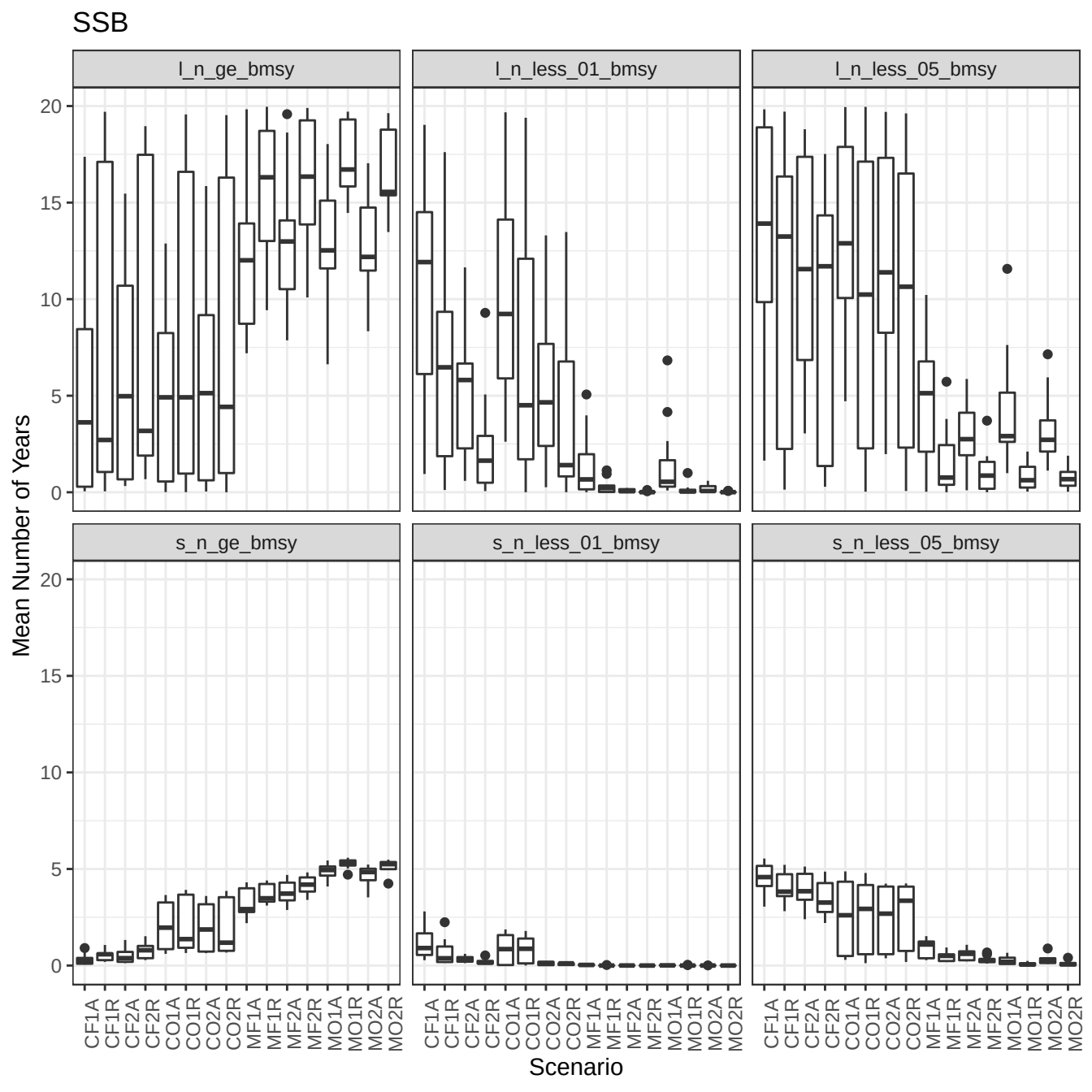
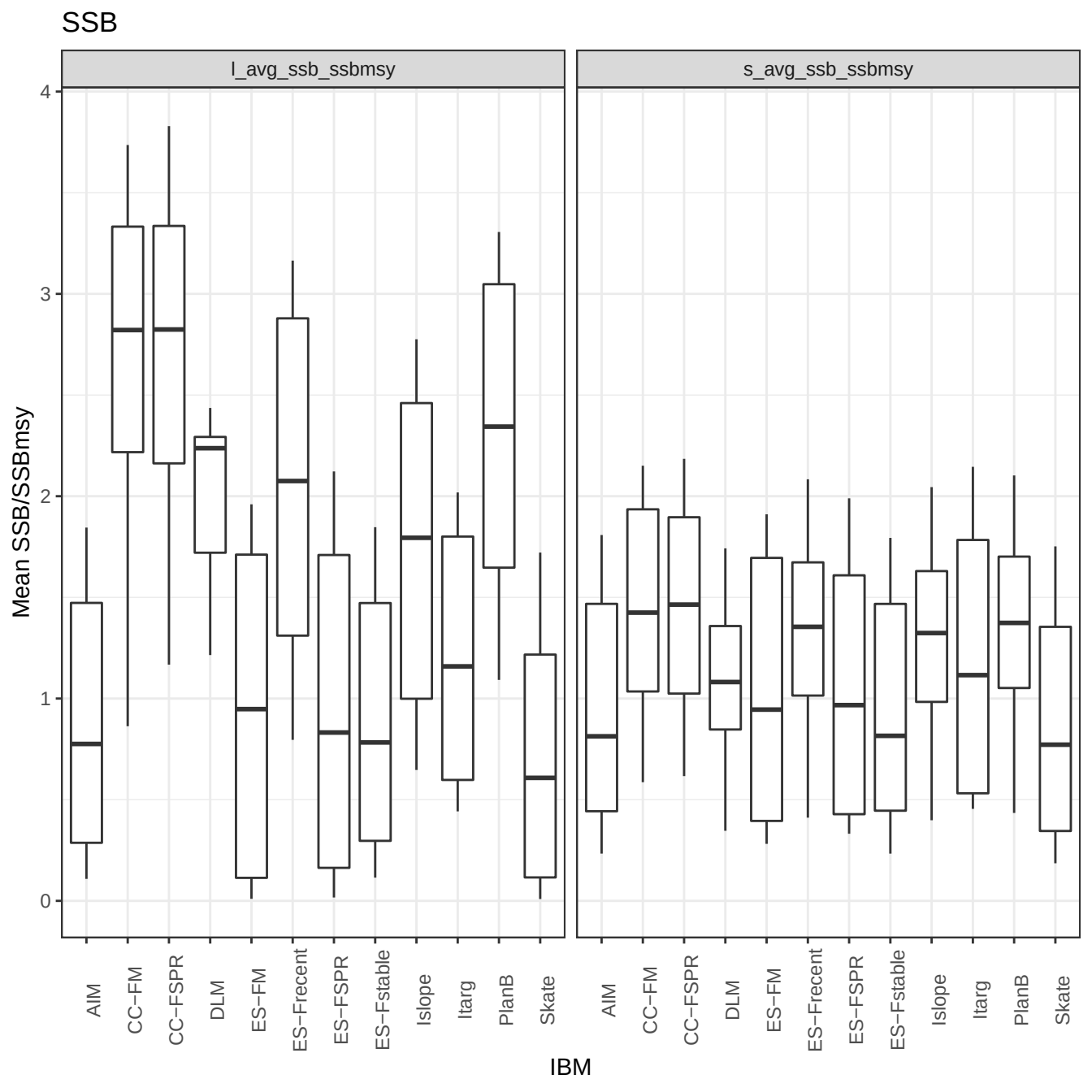

AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Number of Simulations
0
250
500
750
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

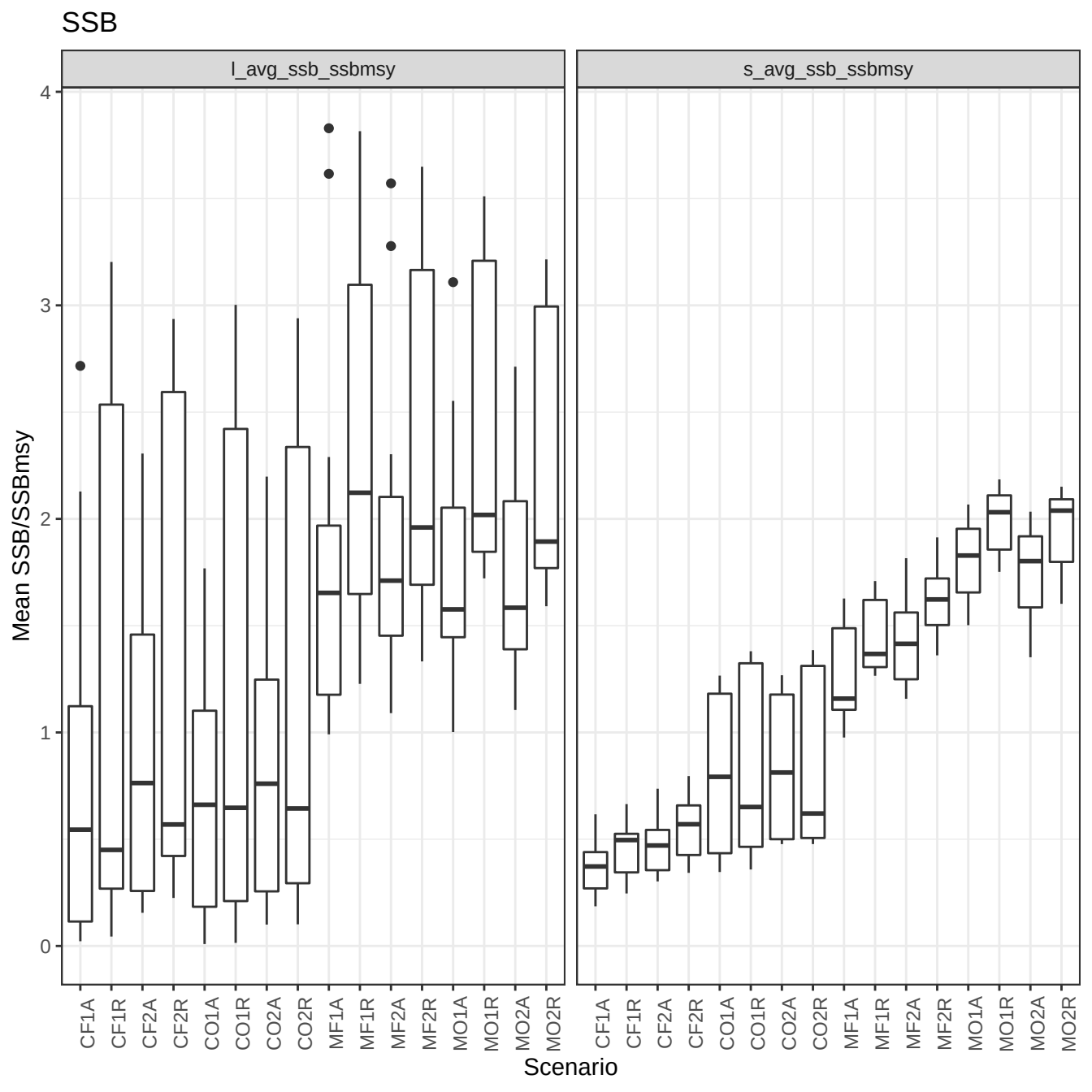

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probability
1.00
0.75
0.50
0.25
0.00
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

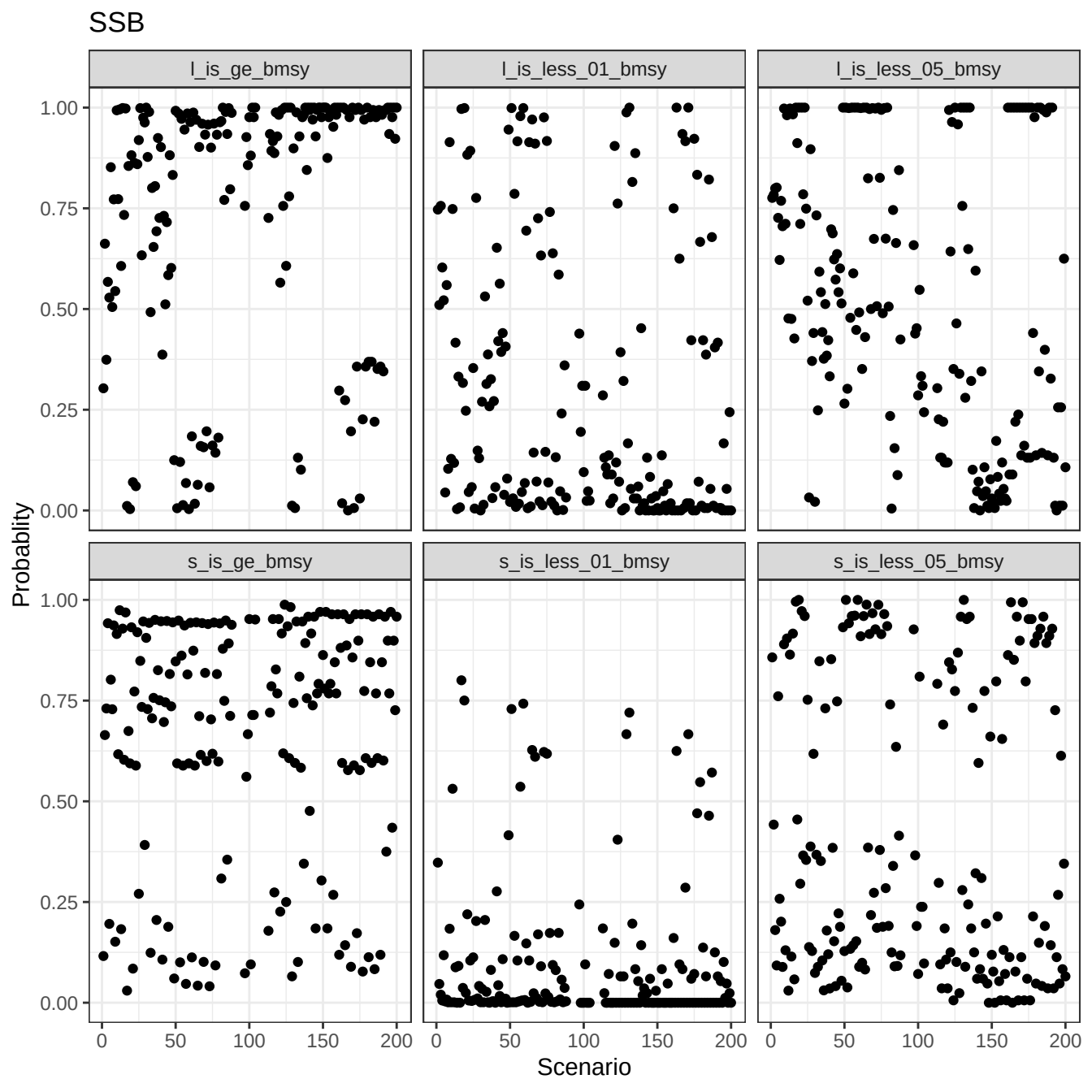

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probability
1.00
0.75
0.50
0.25
0.00
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

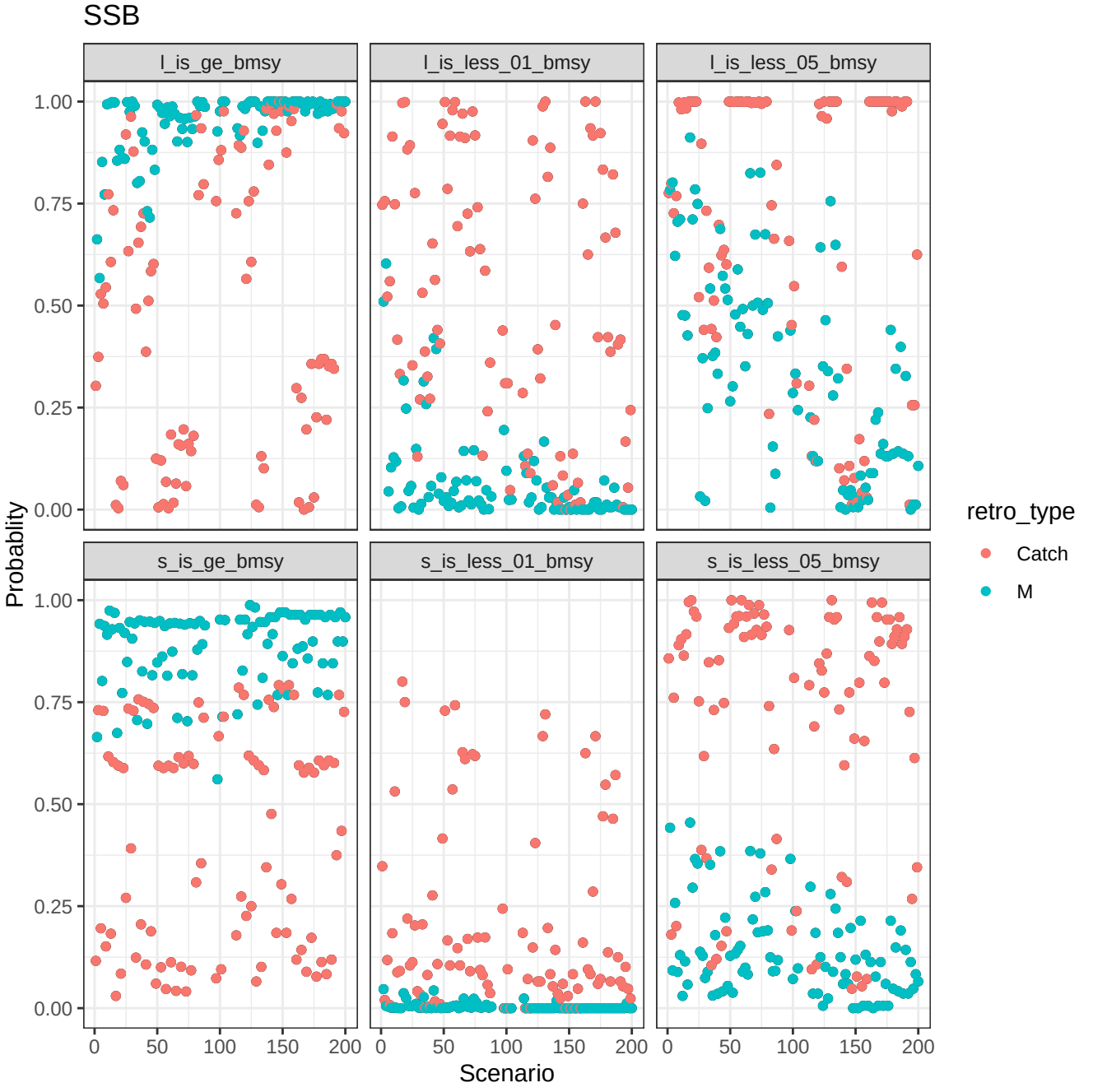

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
0
5
10
15
20
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

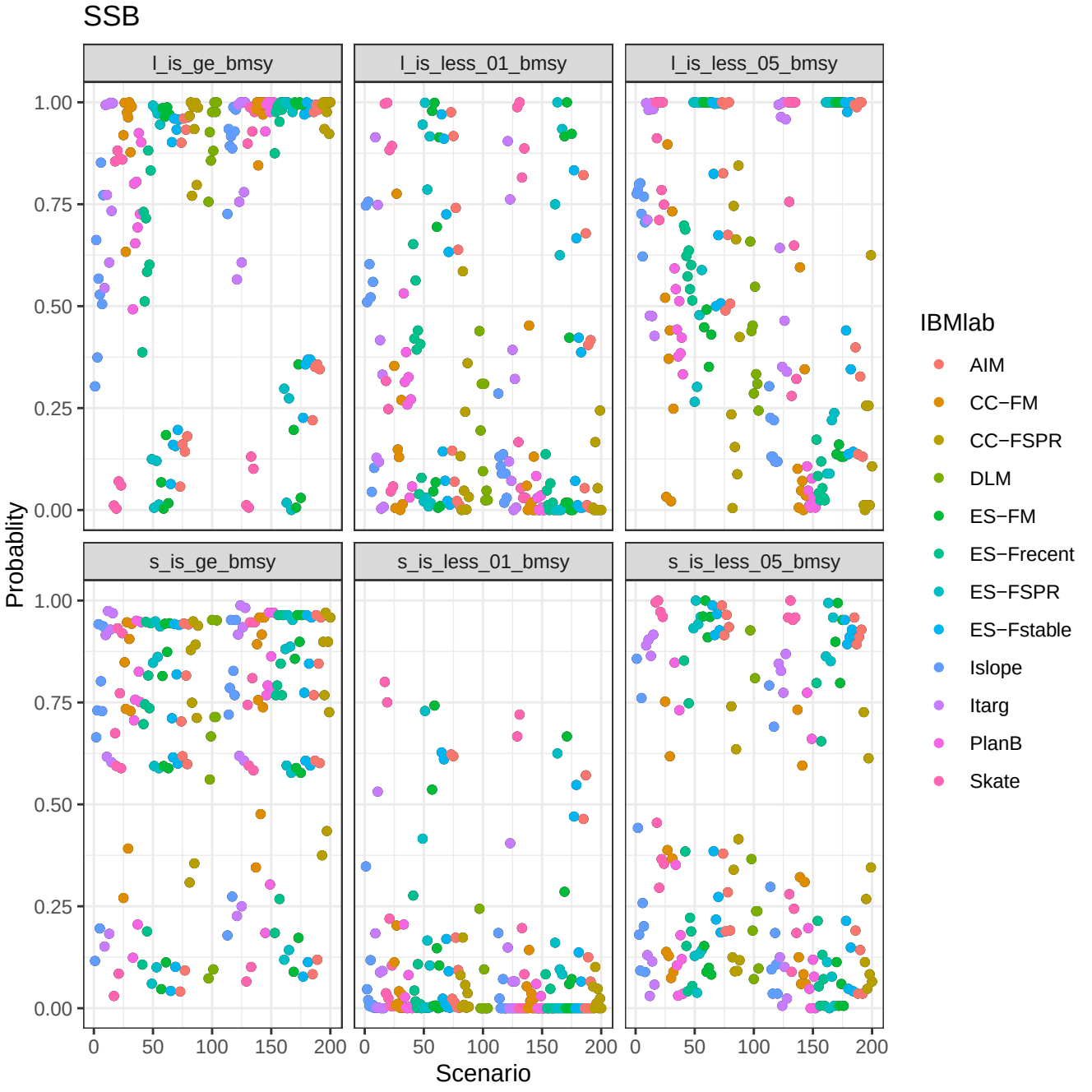

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
0
5
10
15
20
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

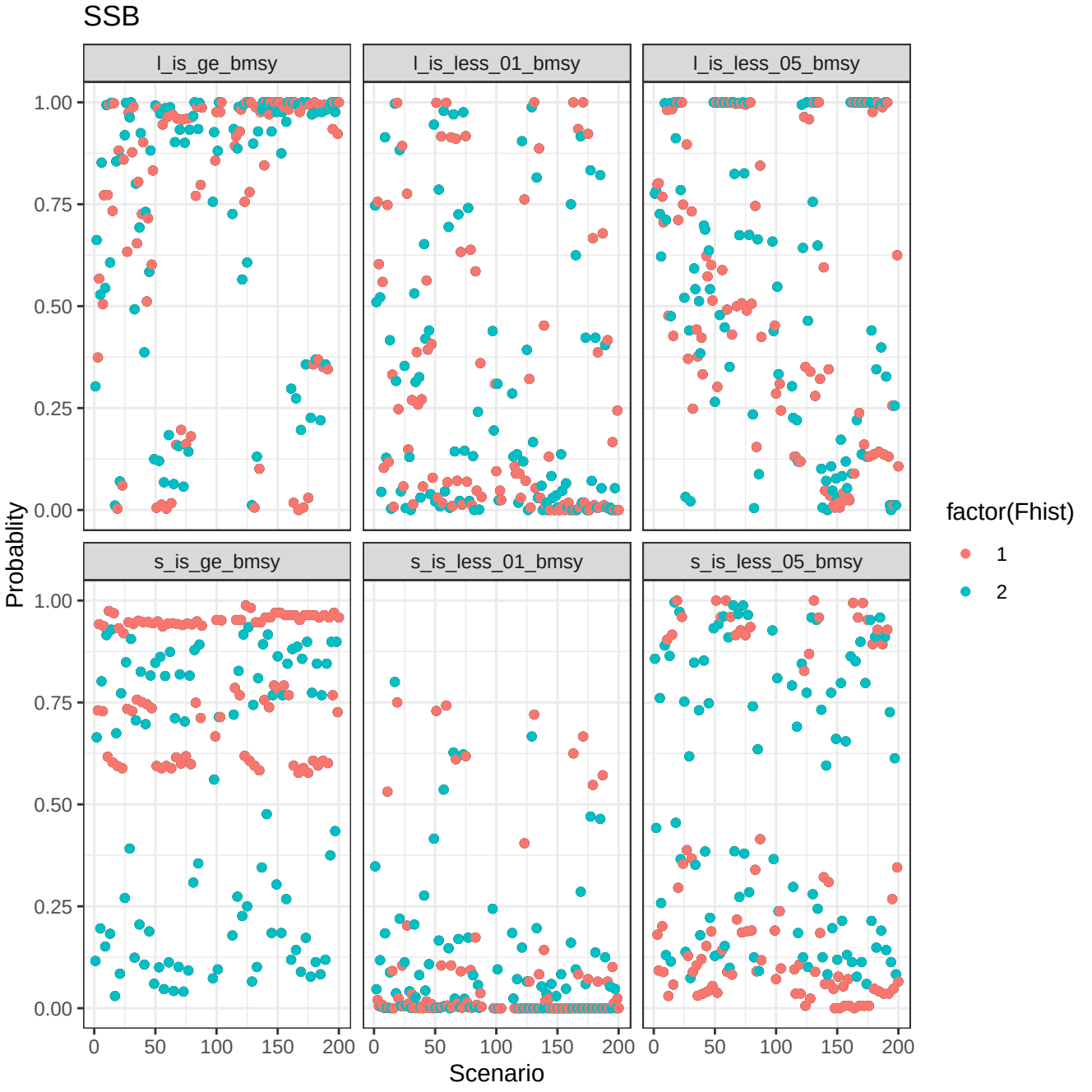

SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
0
1
2
3
4
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

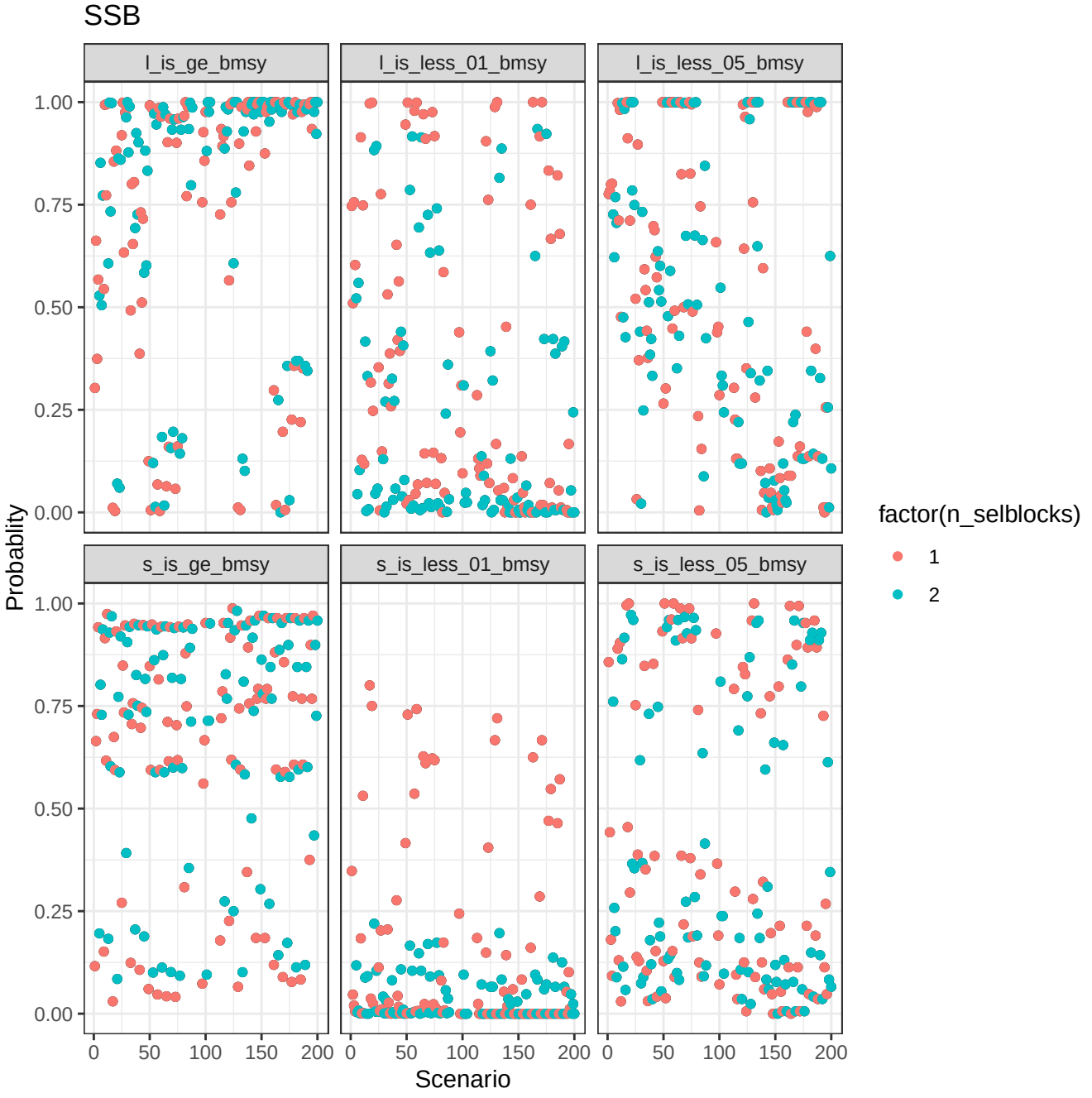

SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
0
1
2
3
4
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

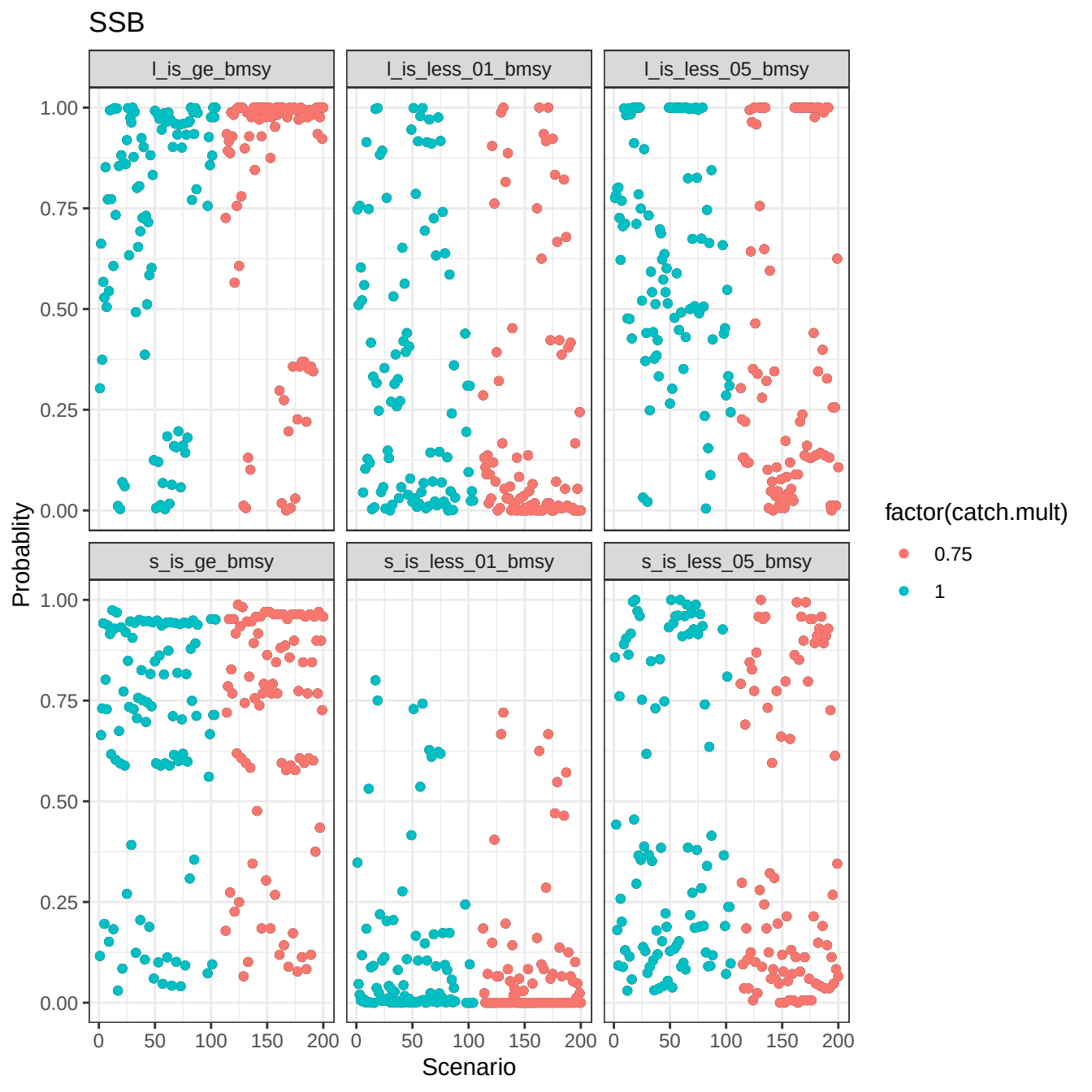

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario

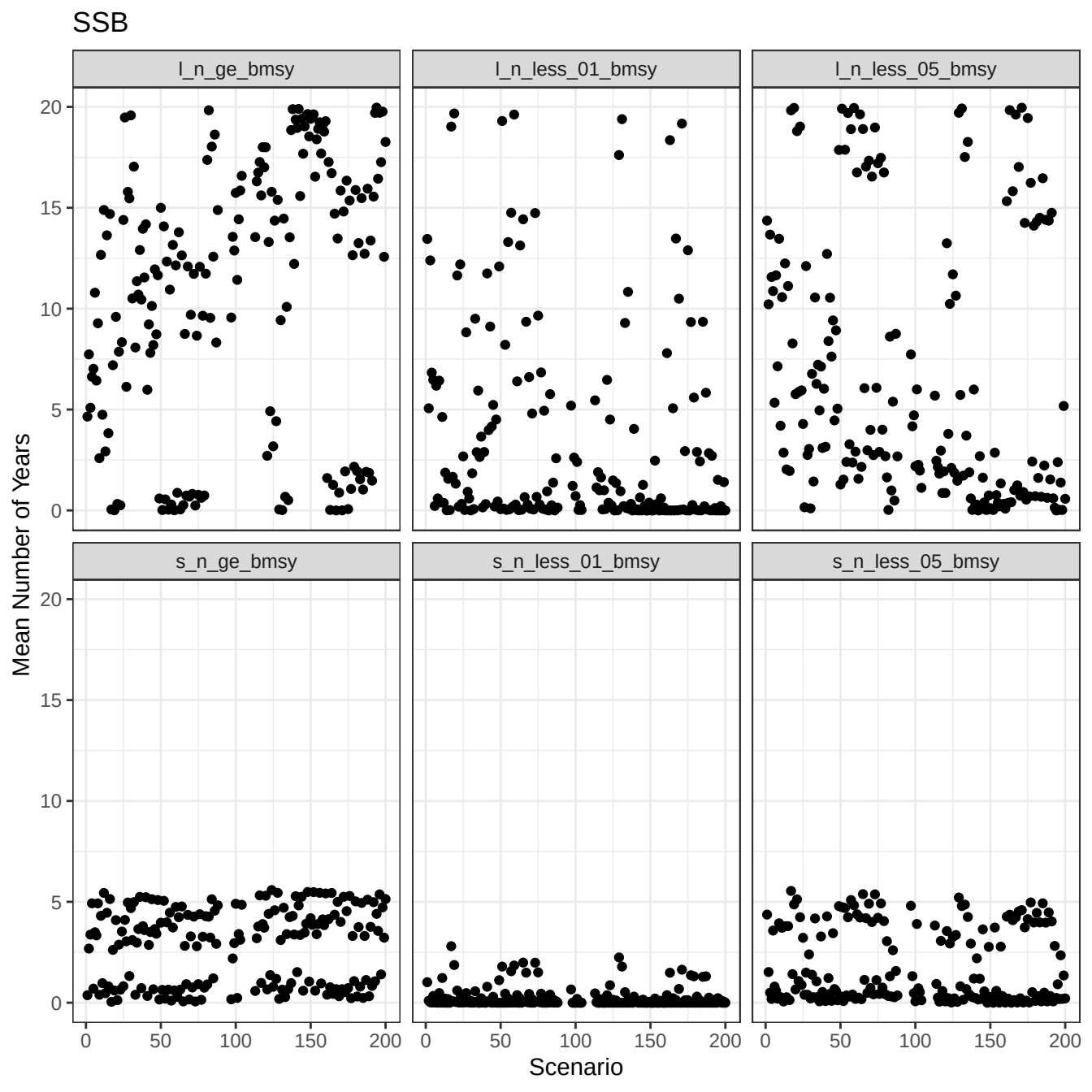

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
retro_type
Catch
M

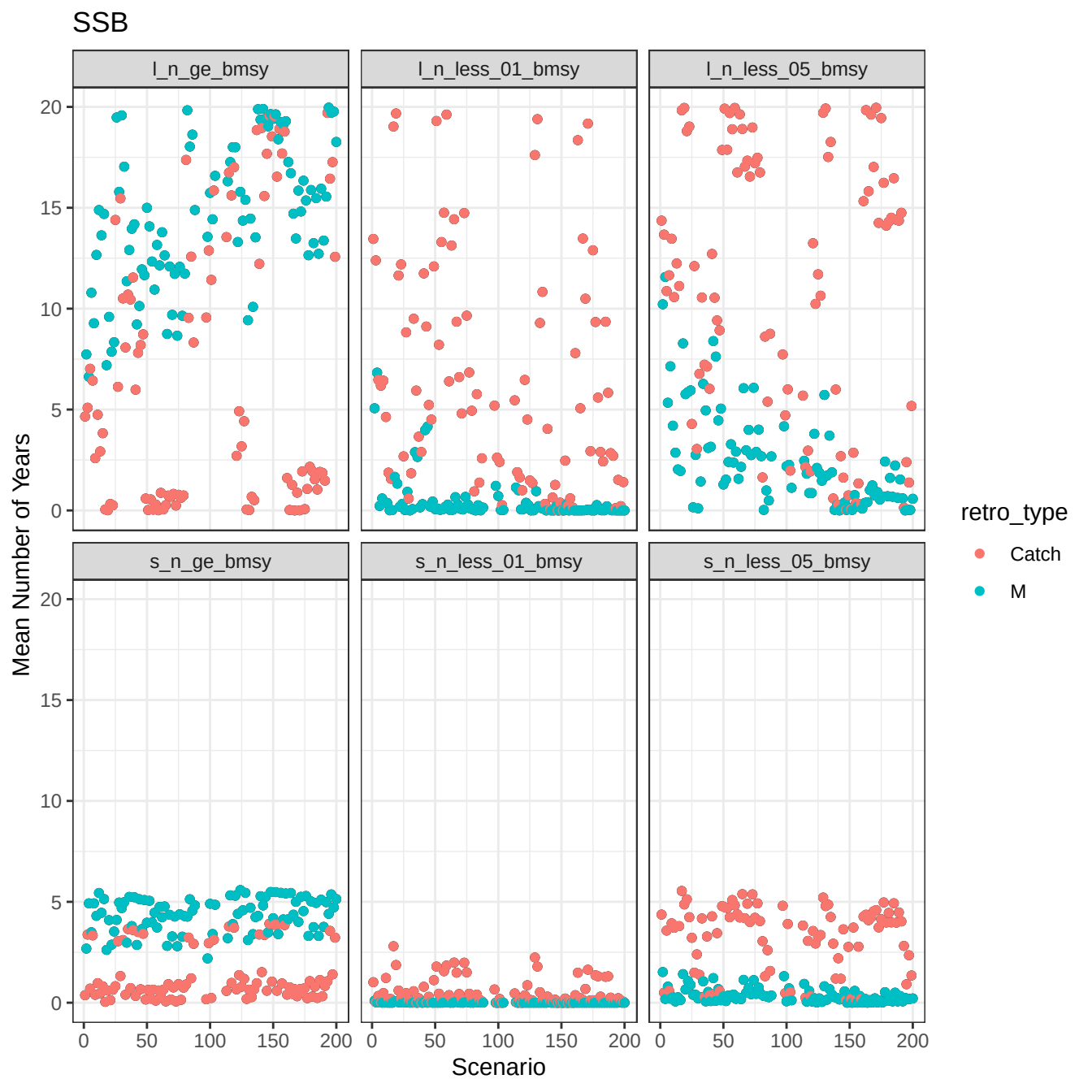

SSB
I_is_ge_bmsy
I_is_less_01_bmsy
I_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

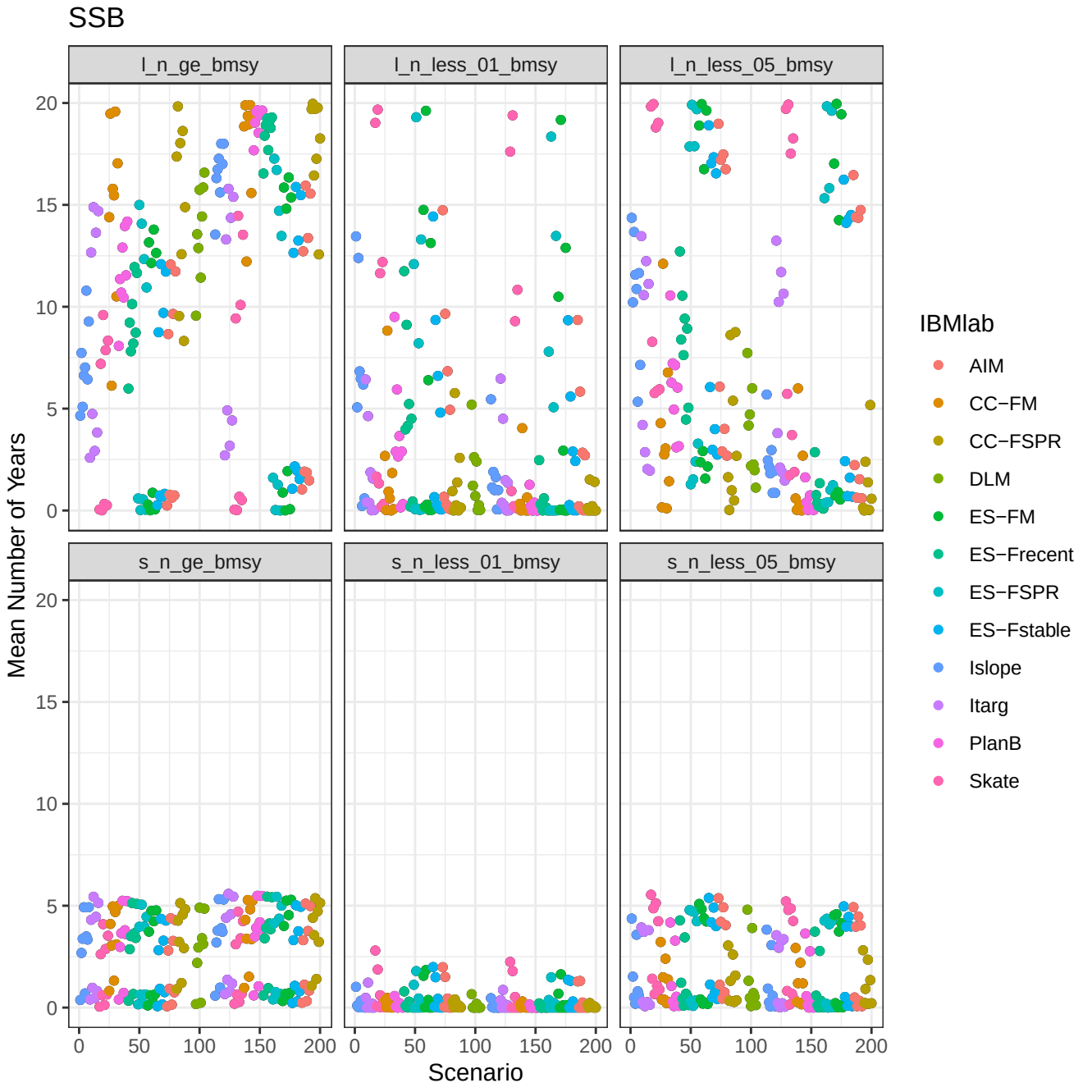

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
factor(Fhist)
1
2

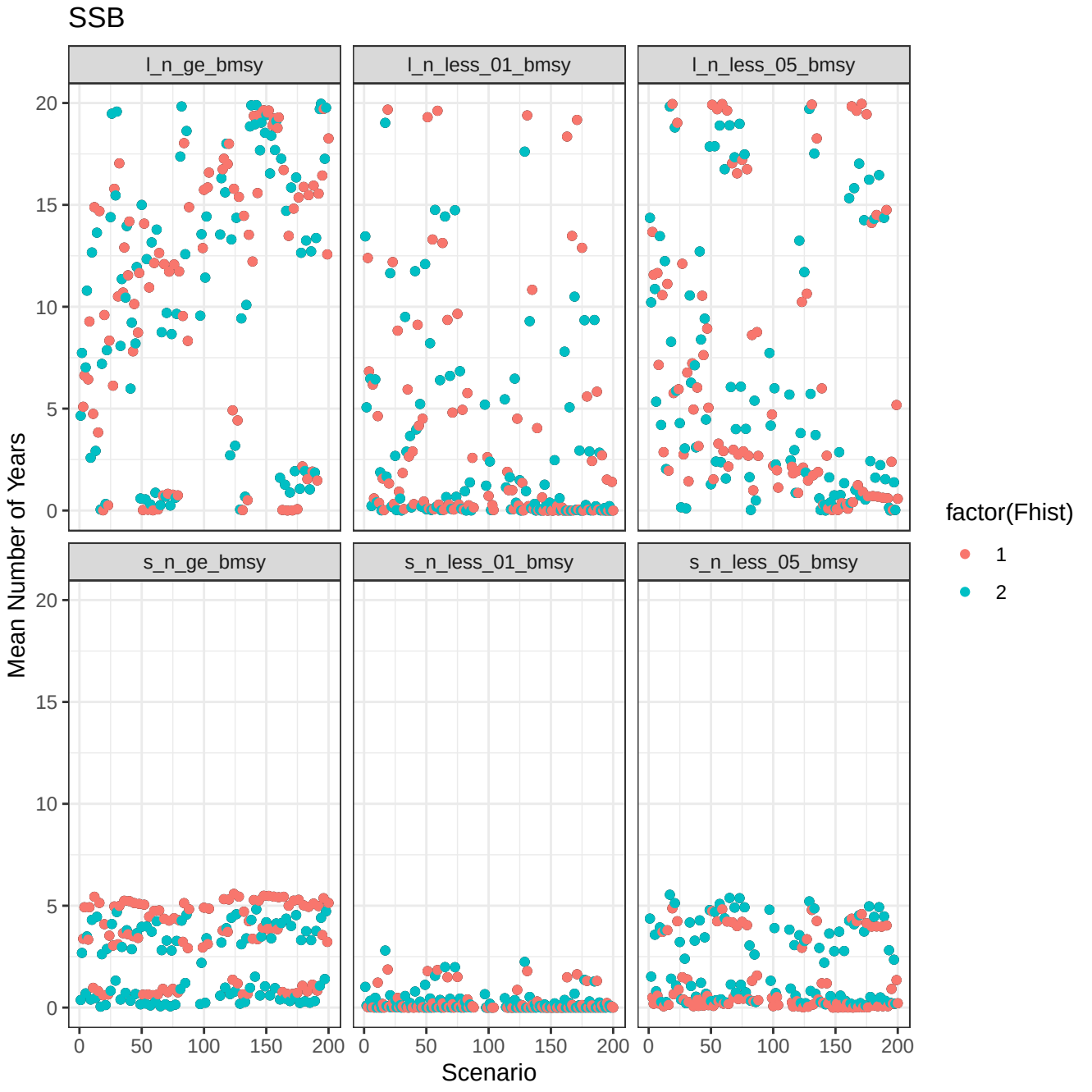

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
factor(n_selblocks)
1
2

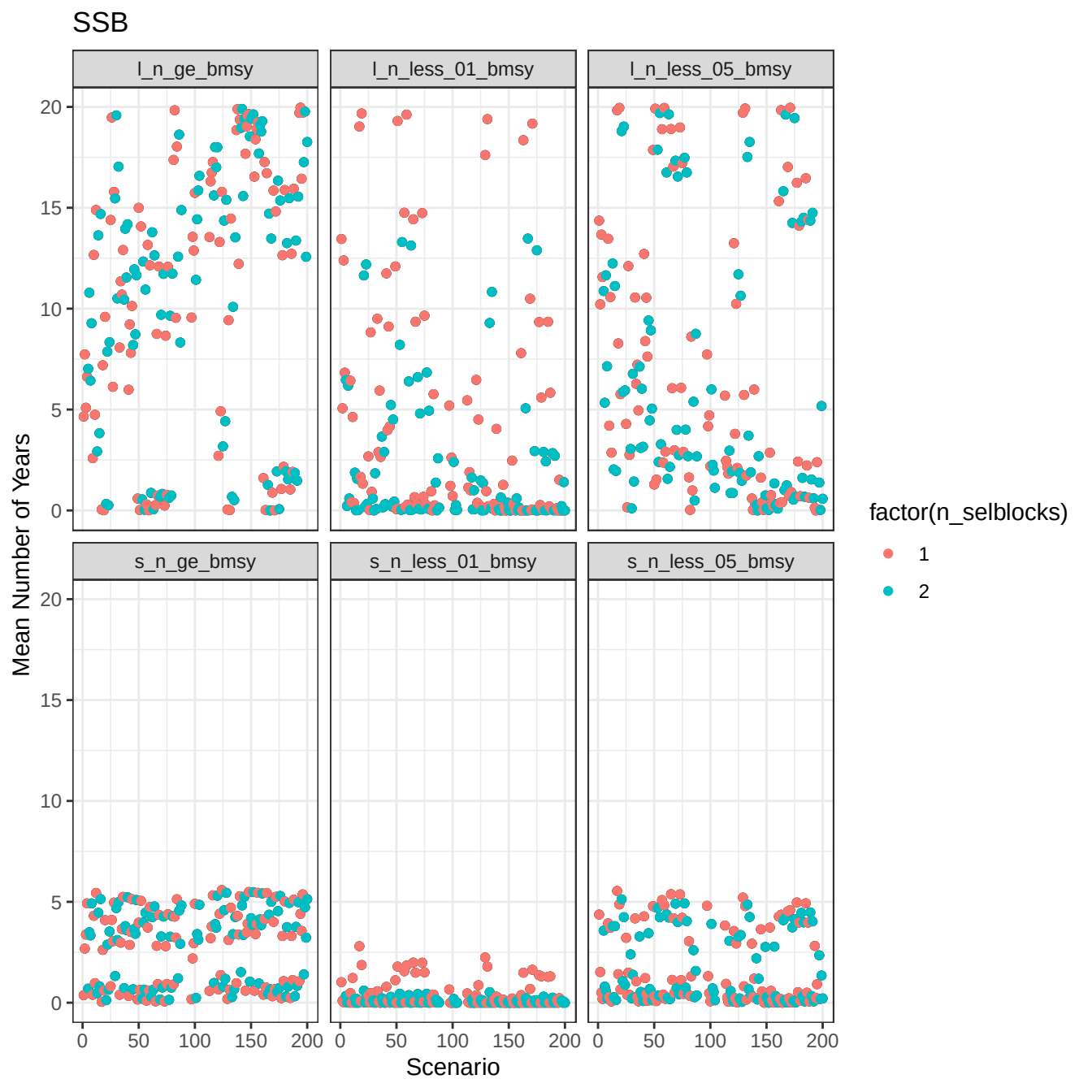

SSB
l_is_ge_bmsy
l_is_less_01_bmsy
l_is_less_05_bmsy
s_is_ge_bmsy
s_is_less_01_bmsy
s_is_less_05_bmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
factor(catch.mult)
0.75
1

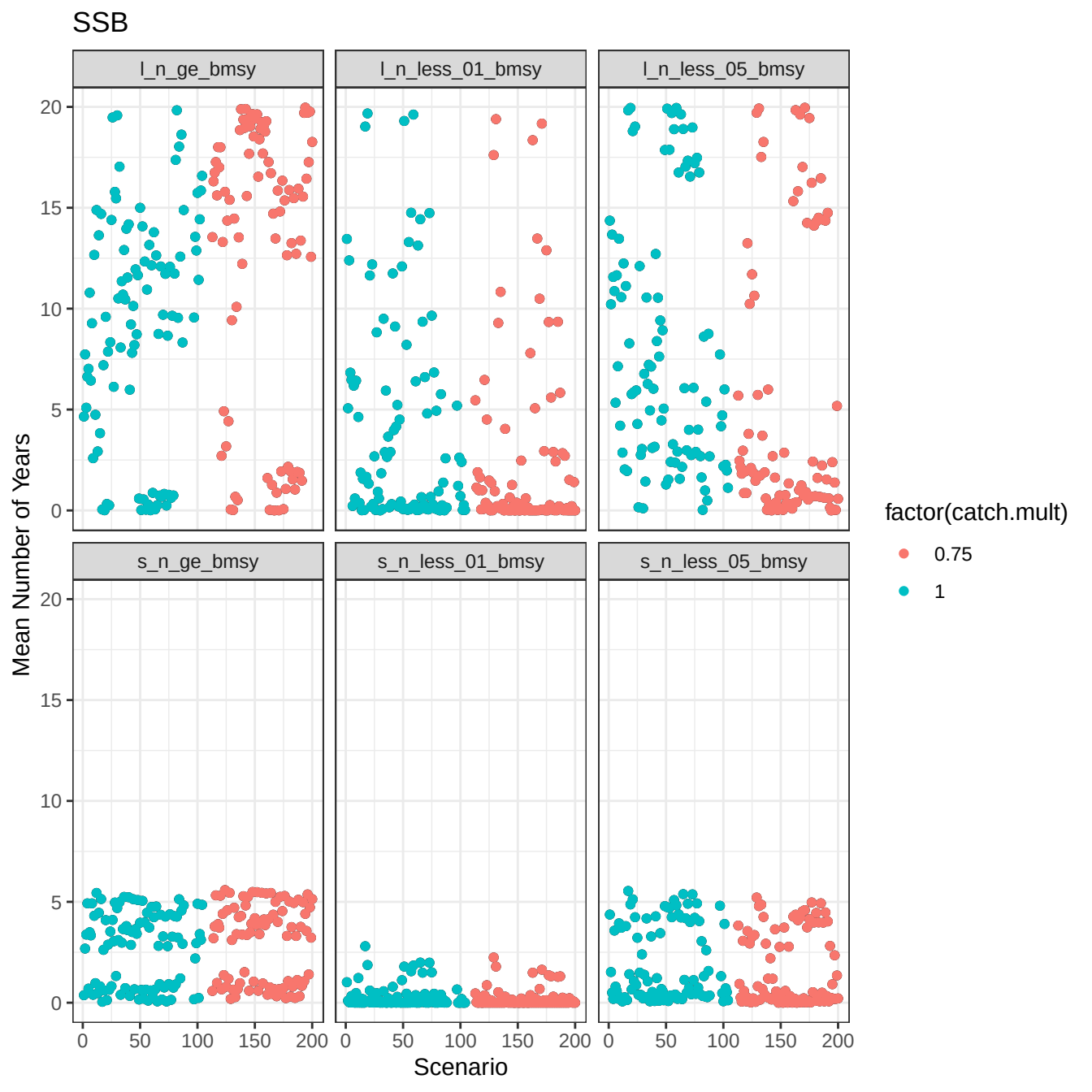

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
Scenario
0
5
10
15
20
0
50
100
150
200

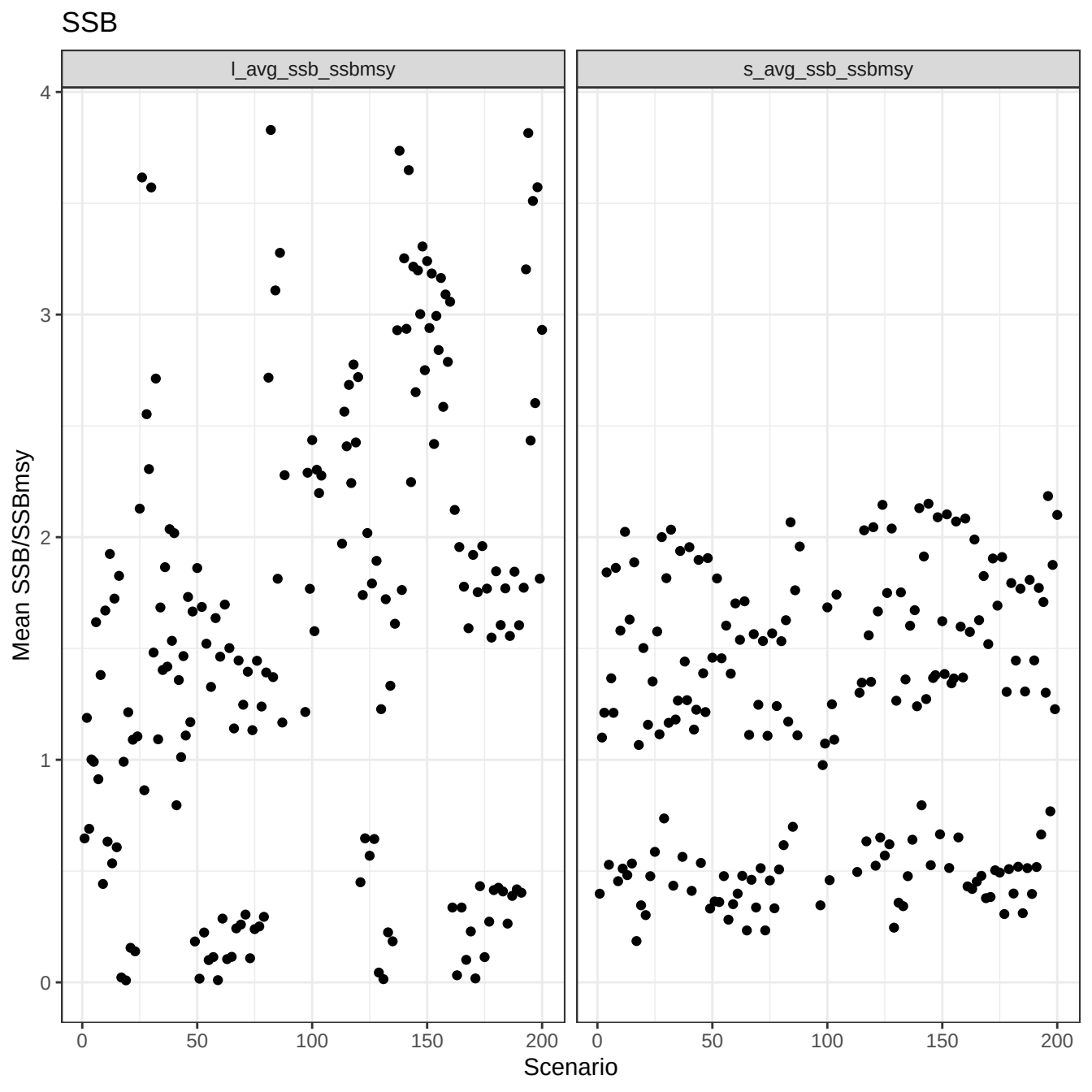

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
Scenario
retro_type
Catch
M
0
5
10
15
20
0
50
100
150
200

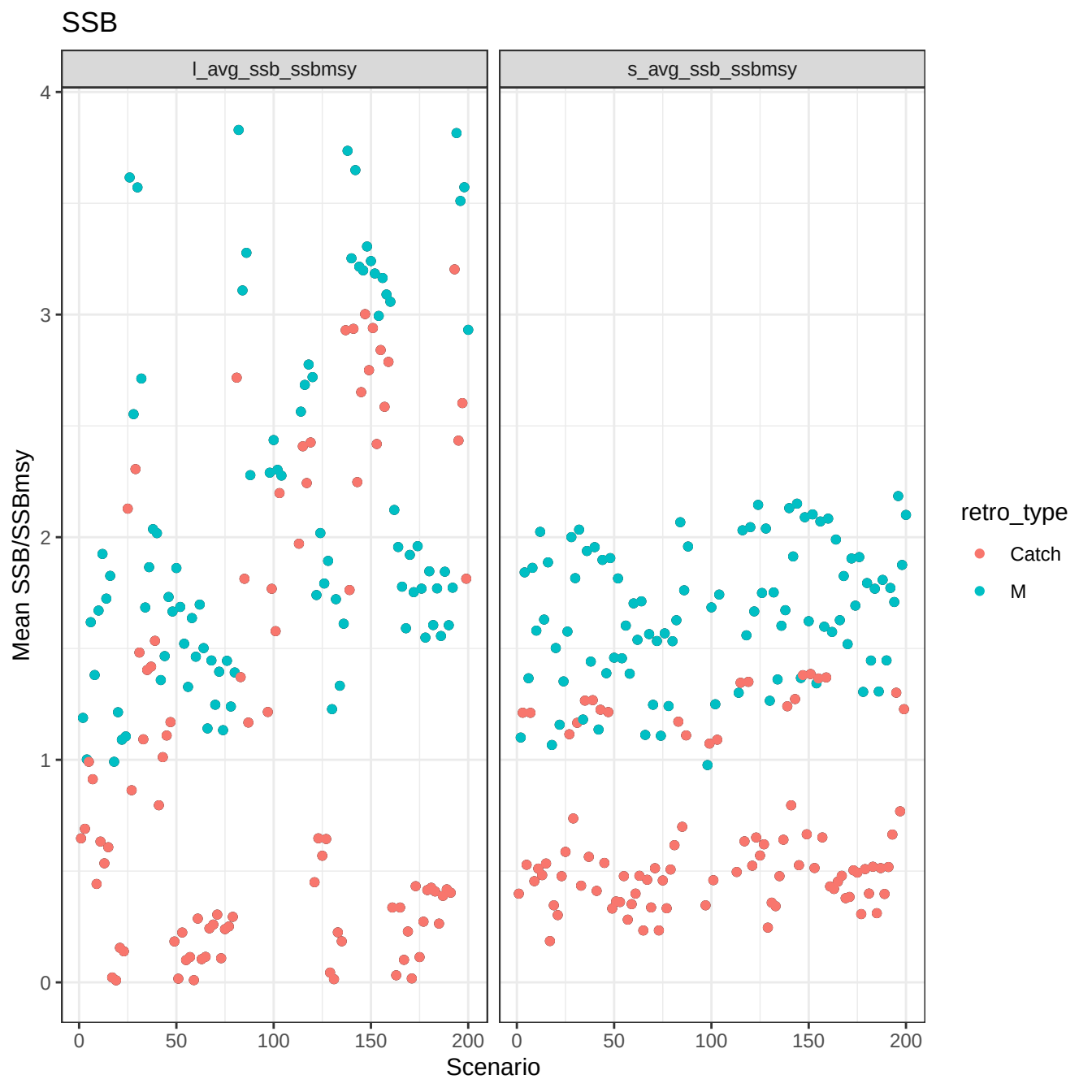

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
Scenario
0
5
10
15
20
0
50
100
150
200
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

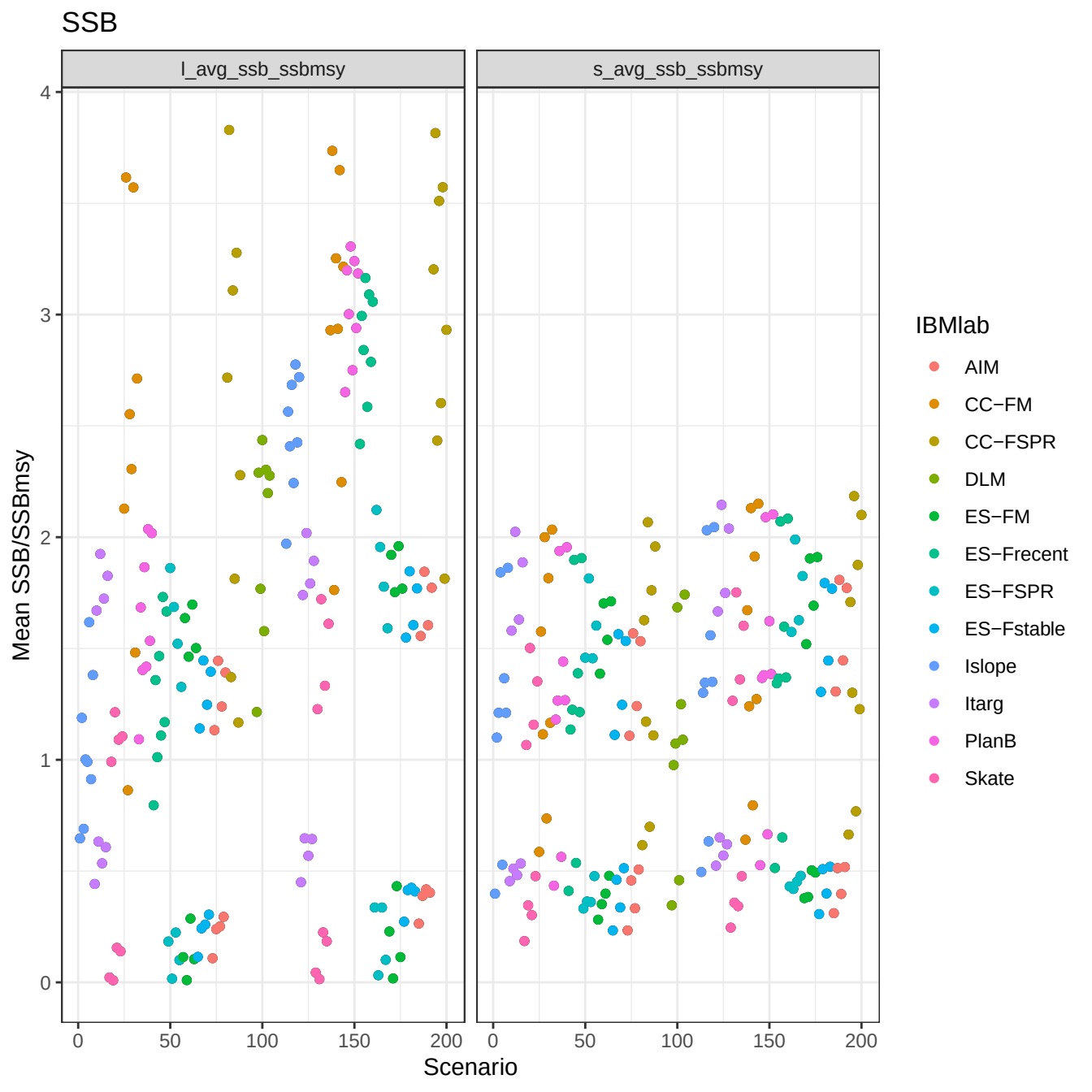

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
Scenario
factor(Fhist)
1
2
0
5
10
15
20
0
50
100
150
200

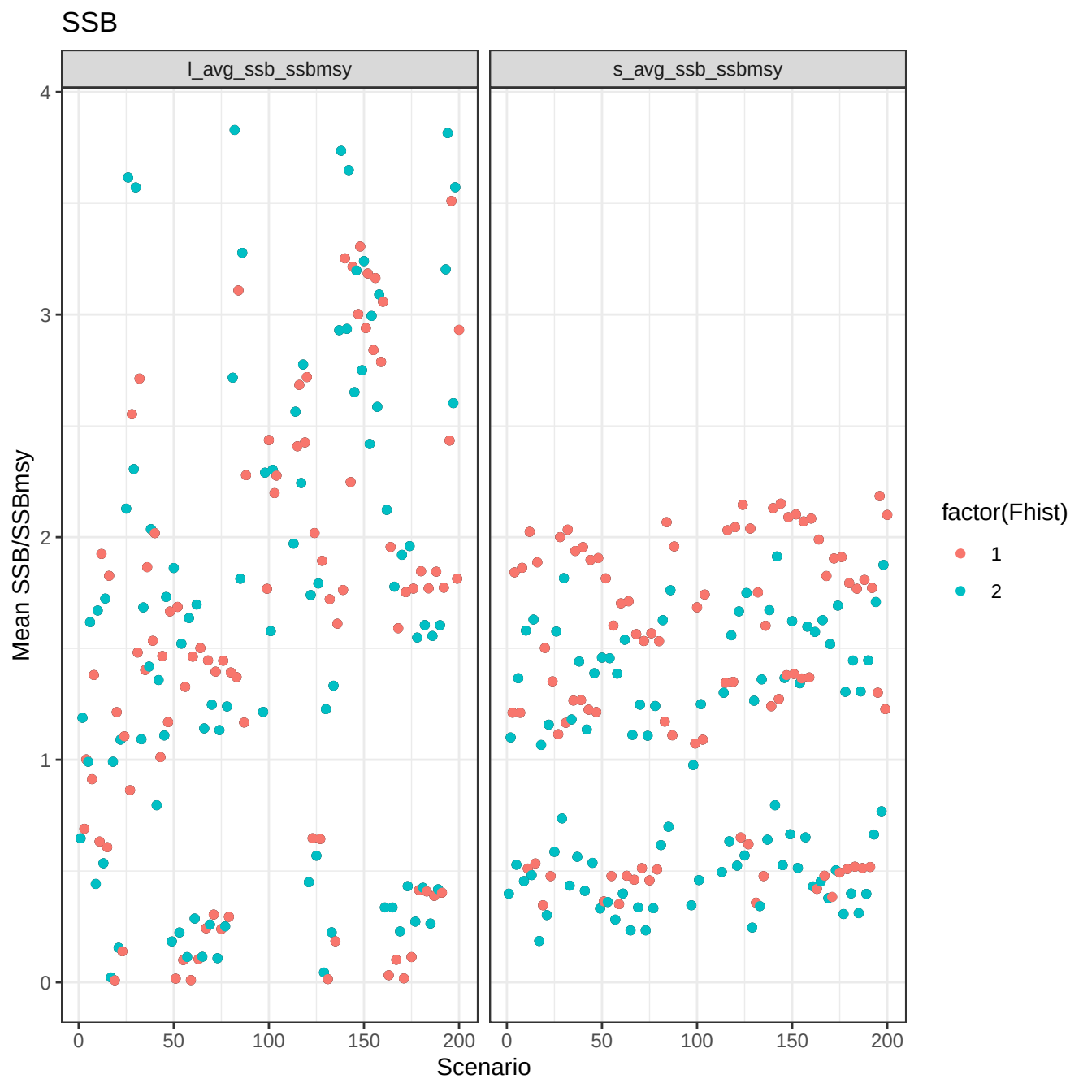

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
Scenario
factor(n_selblocks)
1
2
0
5
10
15
20
0
50
100
150
200

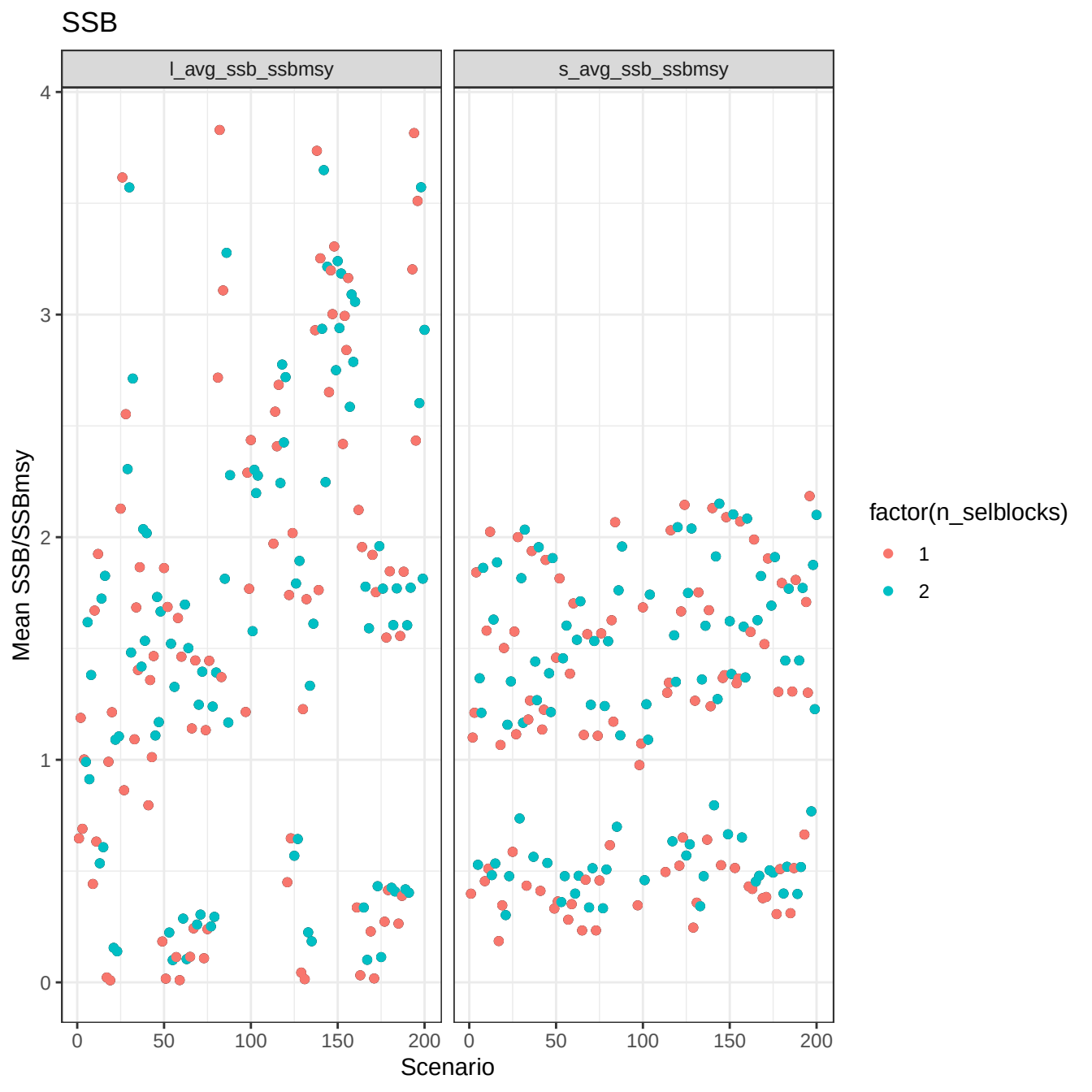

SSB
l_n_ge_bmsy
l_n_less_01_bmsy
l_n_less_05_bmsy
s_n_ge_bmsy
s_n_less_01_bmsy
s_n_less_05_bmsy
Mean Number of Years
Scenario
factor(catch.mult)
0.75
1
0
5
10
15
20
0
50
100
150
200

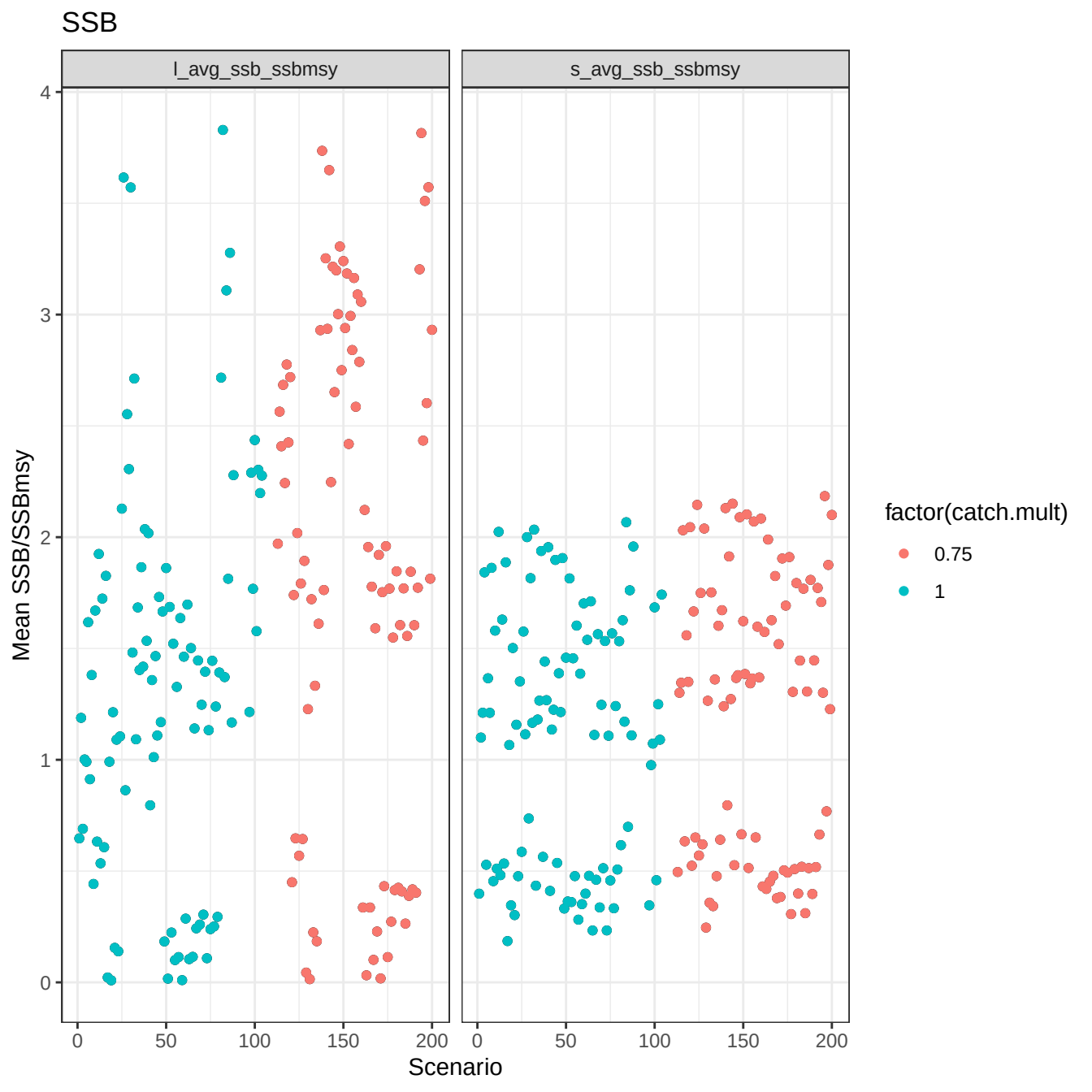

SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
Scenario
0
1
2
3
4
0
50
100
150
200

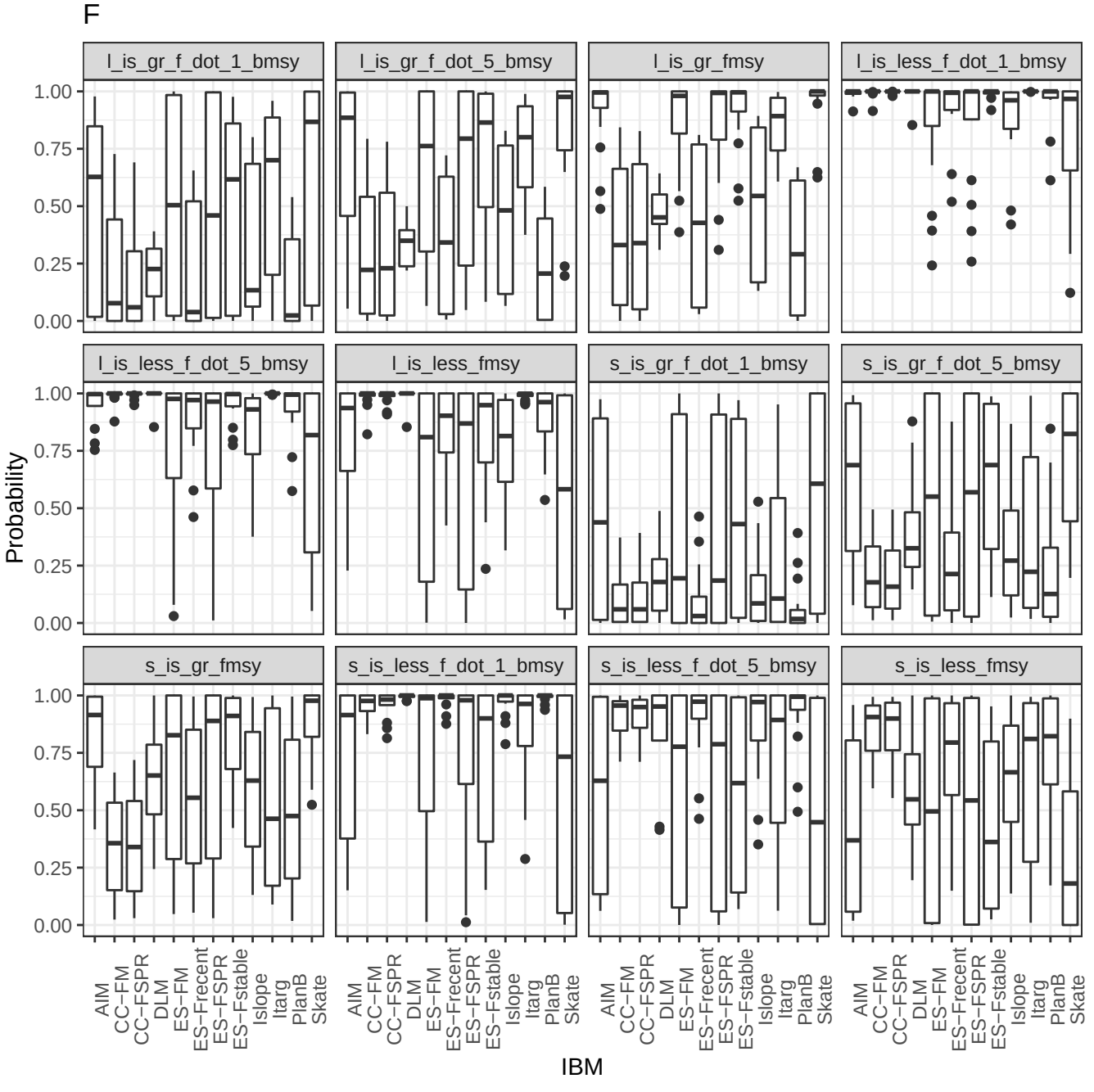

SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
Scenario
retro_type
Catch
M
0
1
2
3
4
0
50
100
150
200


SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
Scenario
0
1
2
3
4
0
50
100
150
200
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

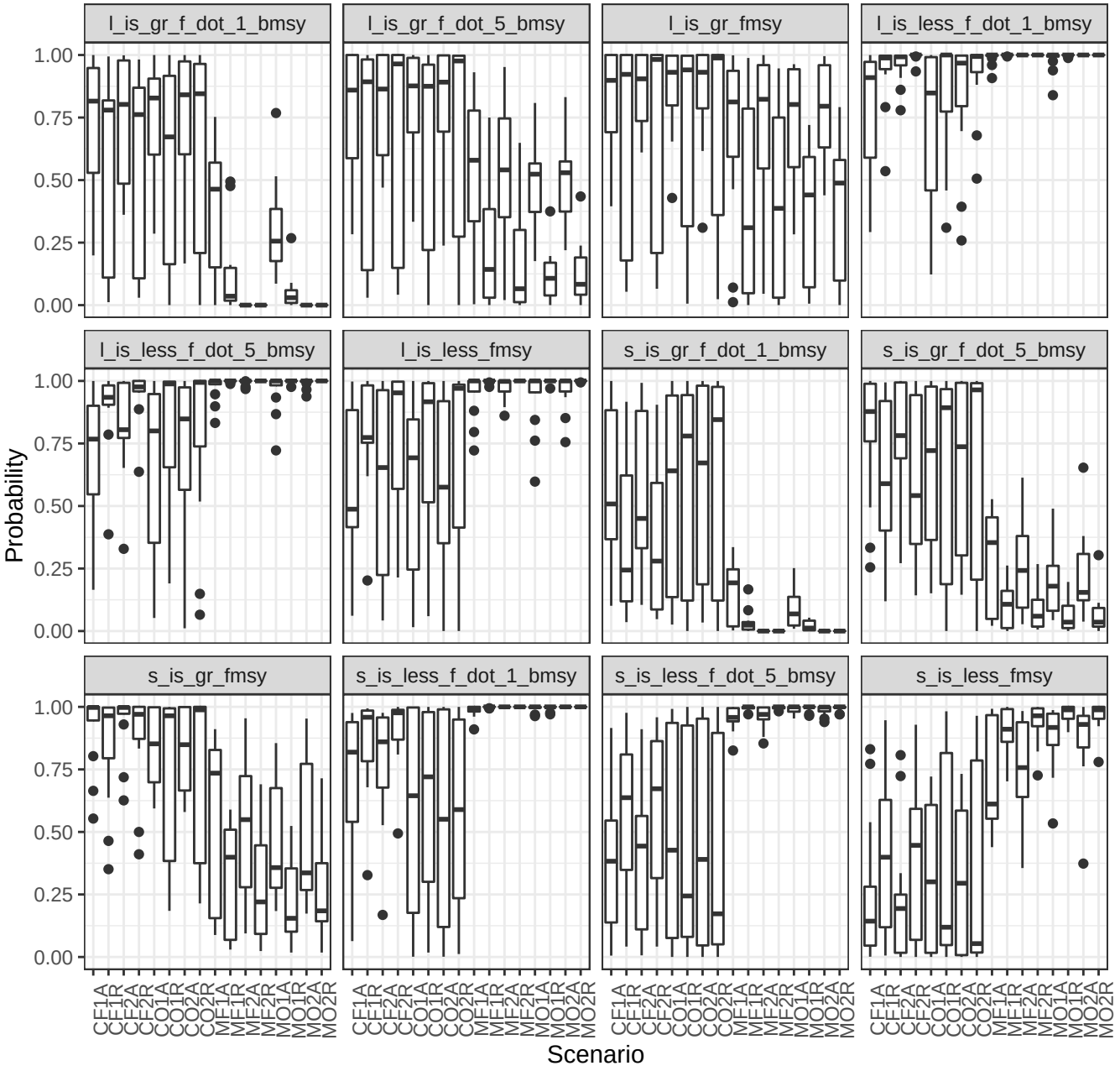

SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
Scenario
factor(Fhist)
1
2
0
1
2
3
4
0
50
100
150
200


SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
Scenario
0
1
2
3
4
0
50
100
150
200
factor(n_selblocks)
1
2

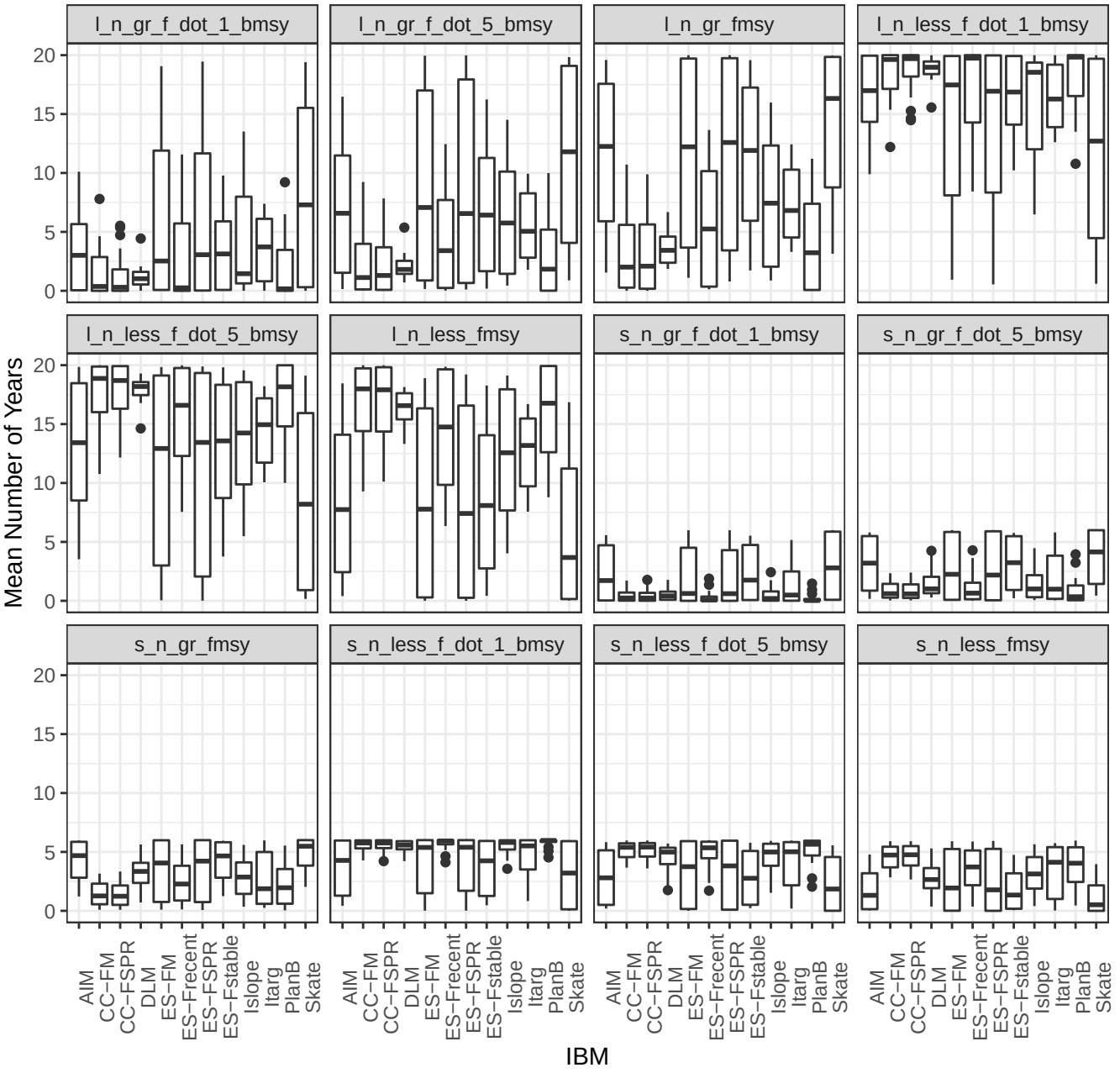

SSB
l_avg_ssb_ssbmsy
s_avg_ssb_ssbmsy
Mean SSB/SSBmsy
Scenario
factor(catch.mult)
0.75
1
0
1
2
3
4
0
50
100
150
200


F
l_is_gr_f_dot_1_bmsy
l_is_gr_f_dot_5_bmsy
l_is_gr_fmsy
l_is_less_f_dot_1_bmsy
l_is_less_f_dot_5_bmsy
l_is_less_fmsy
s_is_gr_f_dot_1_bmsy
s_is_gr_f_dot_5_bmsy
s_is_gr_fmsy
s_is_less_f_dot_1_bmsy
s_is_less_f_dot_5_bmsy
s_is_less_fmsy
Probability
1.00
0.75
0.50
0.25
0.00
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

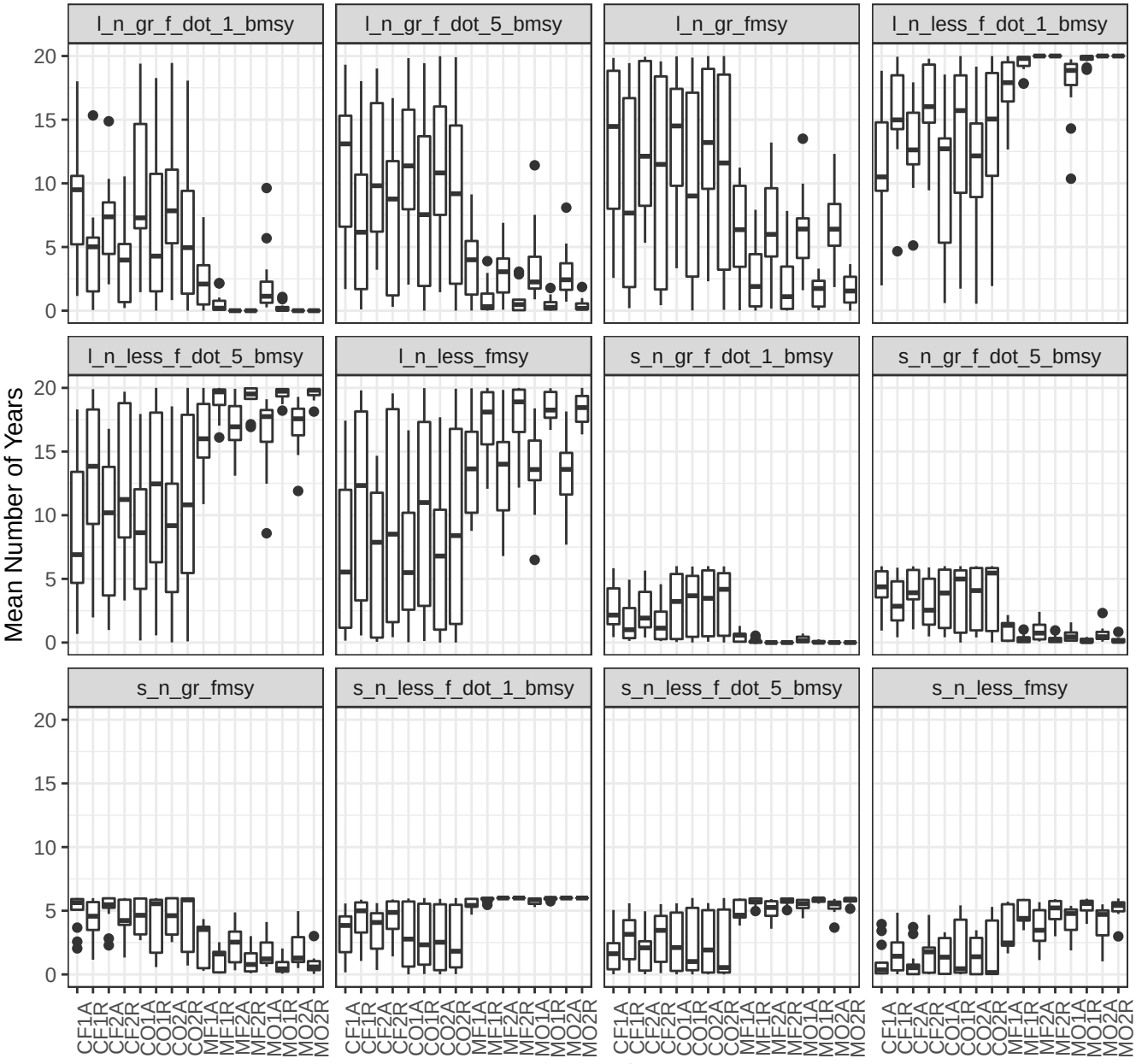
F


l_is_gr_f_dot_1_bmsy
l_is_gr_f_dot_5_bmsy
l_is_gr_fmsy
l_is_less_f_dot_1_bmsy
l_is_less_f_dot_5_bmsy
l_is_less_fmsy
s_is_gr_f_dot_1_bmsy
s_is_gr_f_dot_5_bmsy
s_is_gr_fmsy
s_is_less_f_dot_1_bmsy
s_is_less_f_dot_5_bmsy
s_is_less_fmsy
Probability
1.00
0.75
0.50
0.25
0.00
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

F


l_n_gr_f_dot_1_bmsy
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
l_n_less_f_dot_1_bmsy
l_n_less_f_dot_5_bmsy
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
s_n_less_f_dot_1_bmsy
s_n_less_f_dot_5_bmsy
s_n_less_fmsy
Mean Number of Years
0
5
10
15
20
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

F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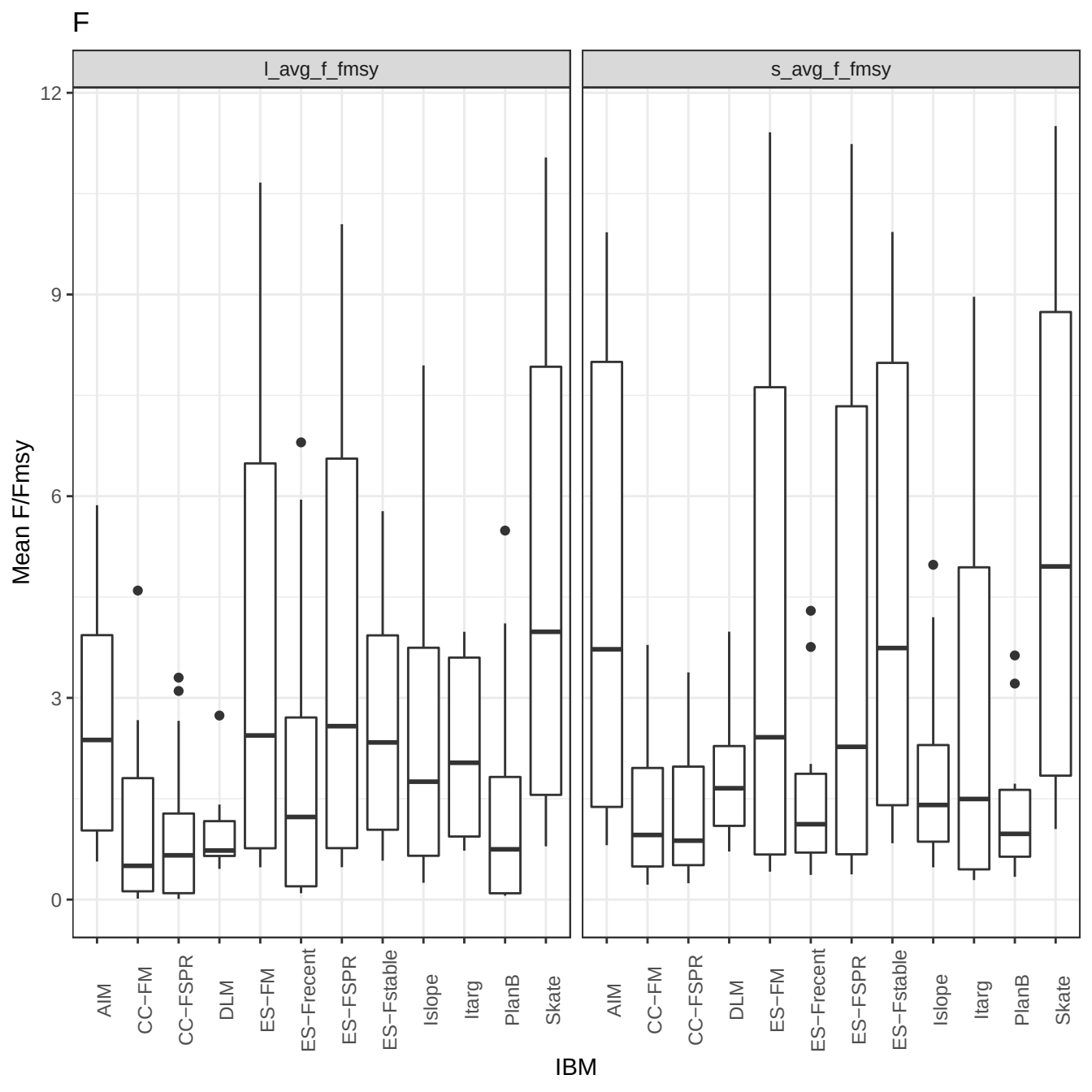
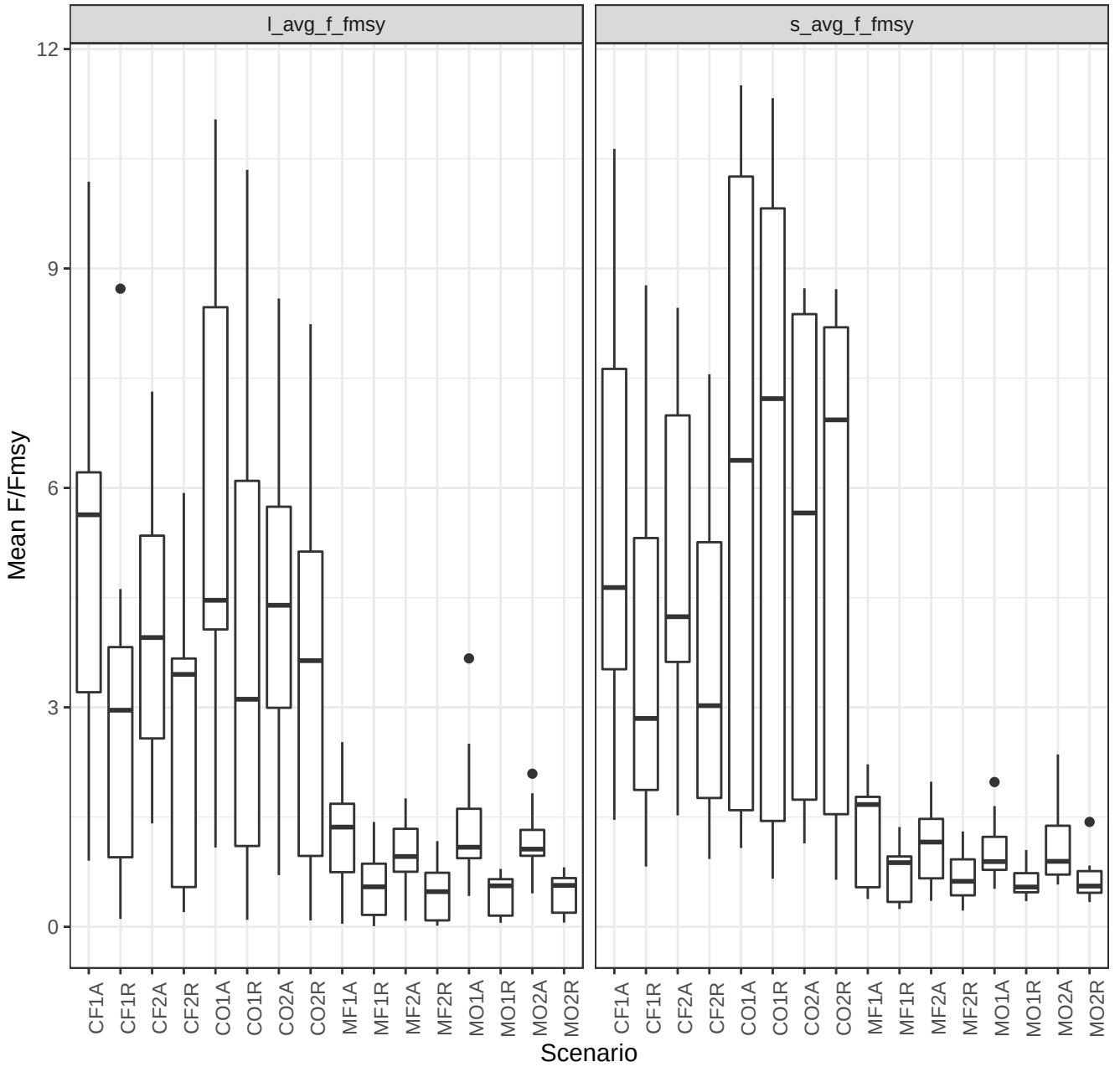
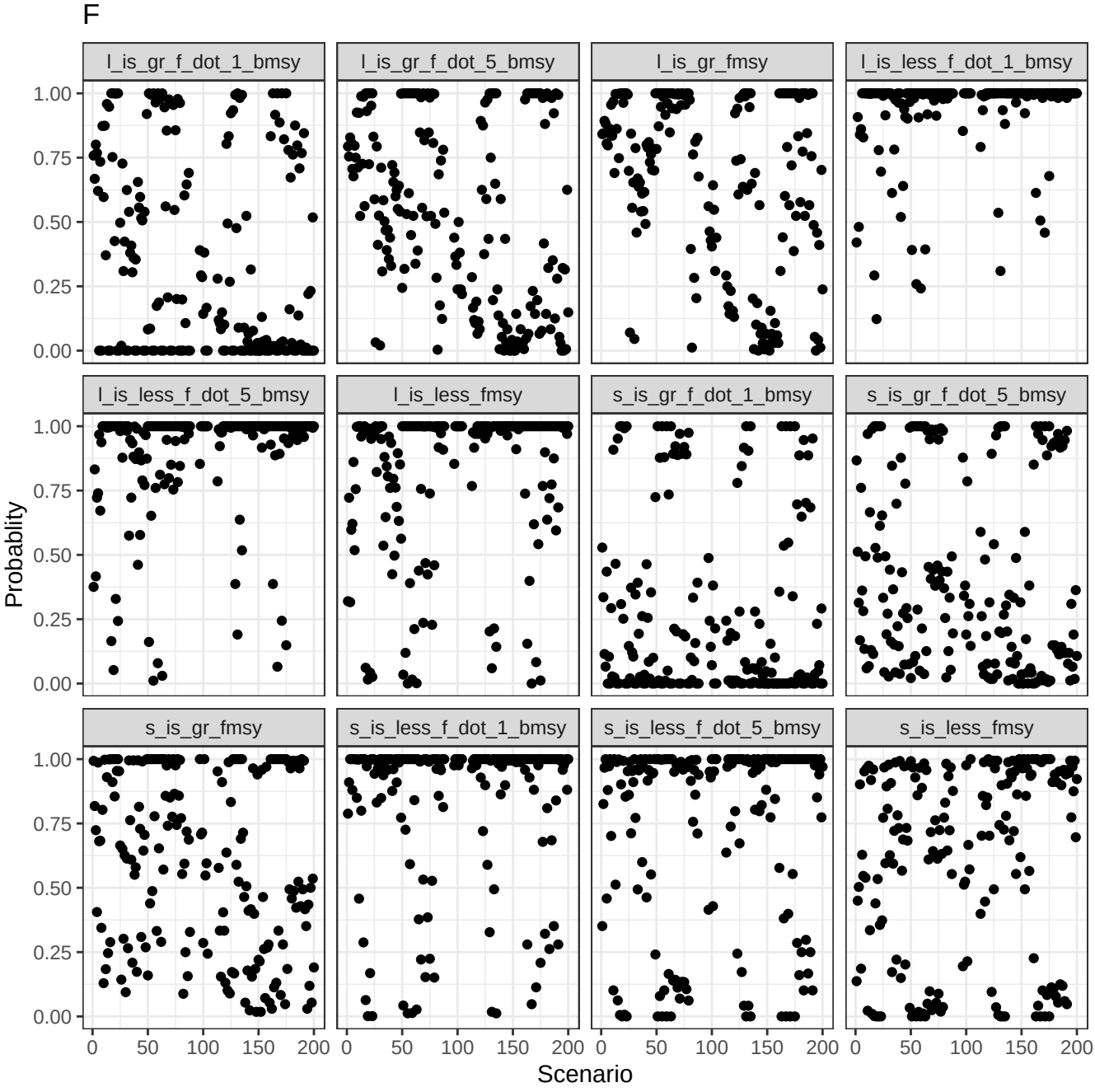
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
l_n_less_f_dot_1_bmsy
l_n_less_f_dot_5_bmsy
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
s_n_less_f_dot_1_bmsy
s_n_less_f_dot_5_bmsy
s_n_less_fmsy
Mean Number of Years
0
5
10
15
20
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario


F
l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
12
9
6
3
0
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

F


l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
12
9
6
3
0
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario


F
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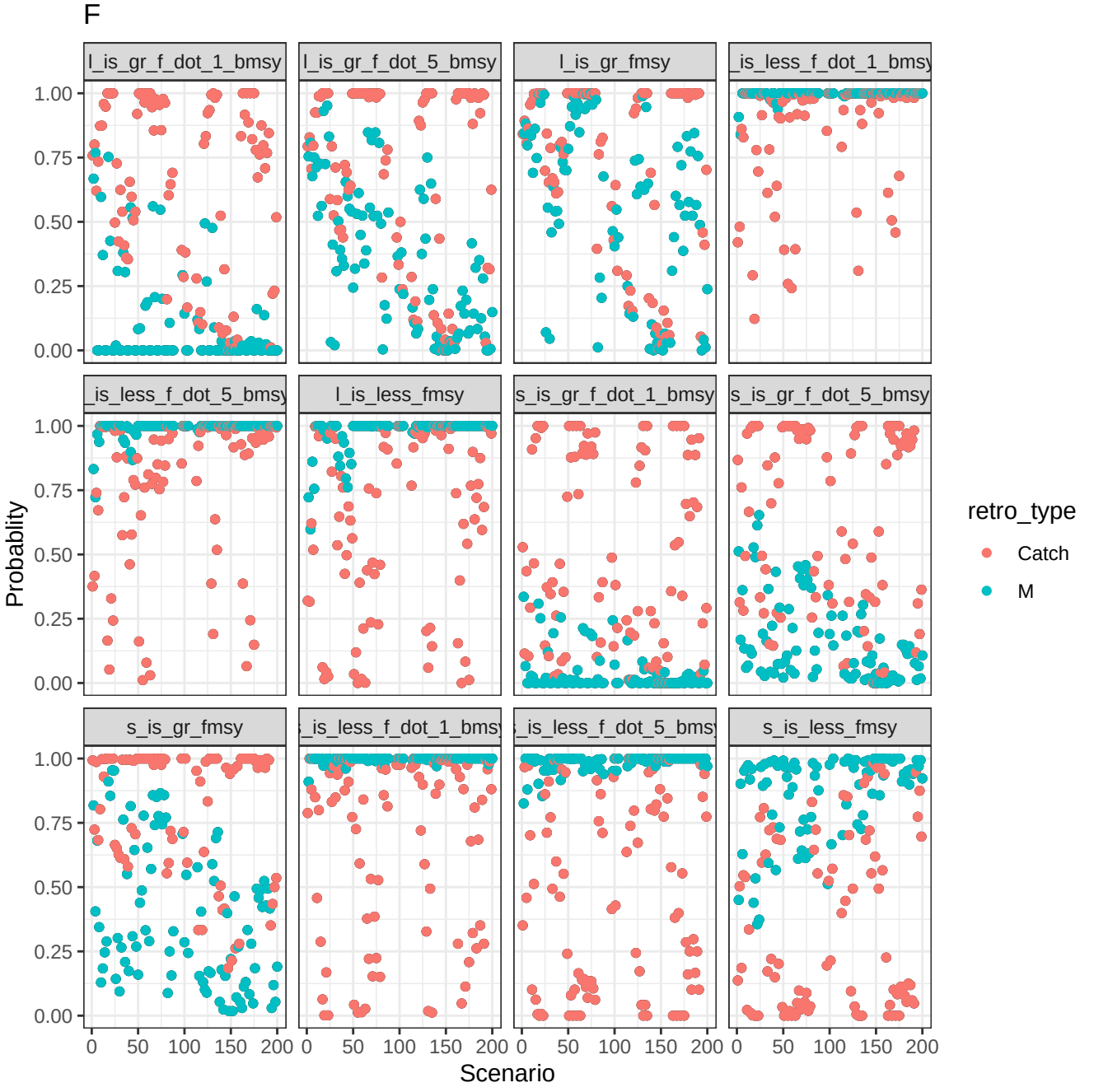
l_is_gr_fmsy
l_is_less_f_dot_1_bmsy
l_is_less_f_dot_5_bmsy
l_is_less_fmsy
s_is_gr_f_dot_1_bmsy
s_is_gr_f_dot_5_bmsy
s_is_gr_fmsy
s_is_less_f_dot_1_bmsy
s_is_less_f_dot_5_bmsy
s_is_less_fmsy
Probablity
0.00
0.25
0.50
0.75
1.00
0
50
100
150
200
Scenario


F
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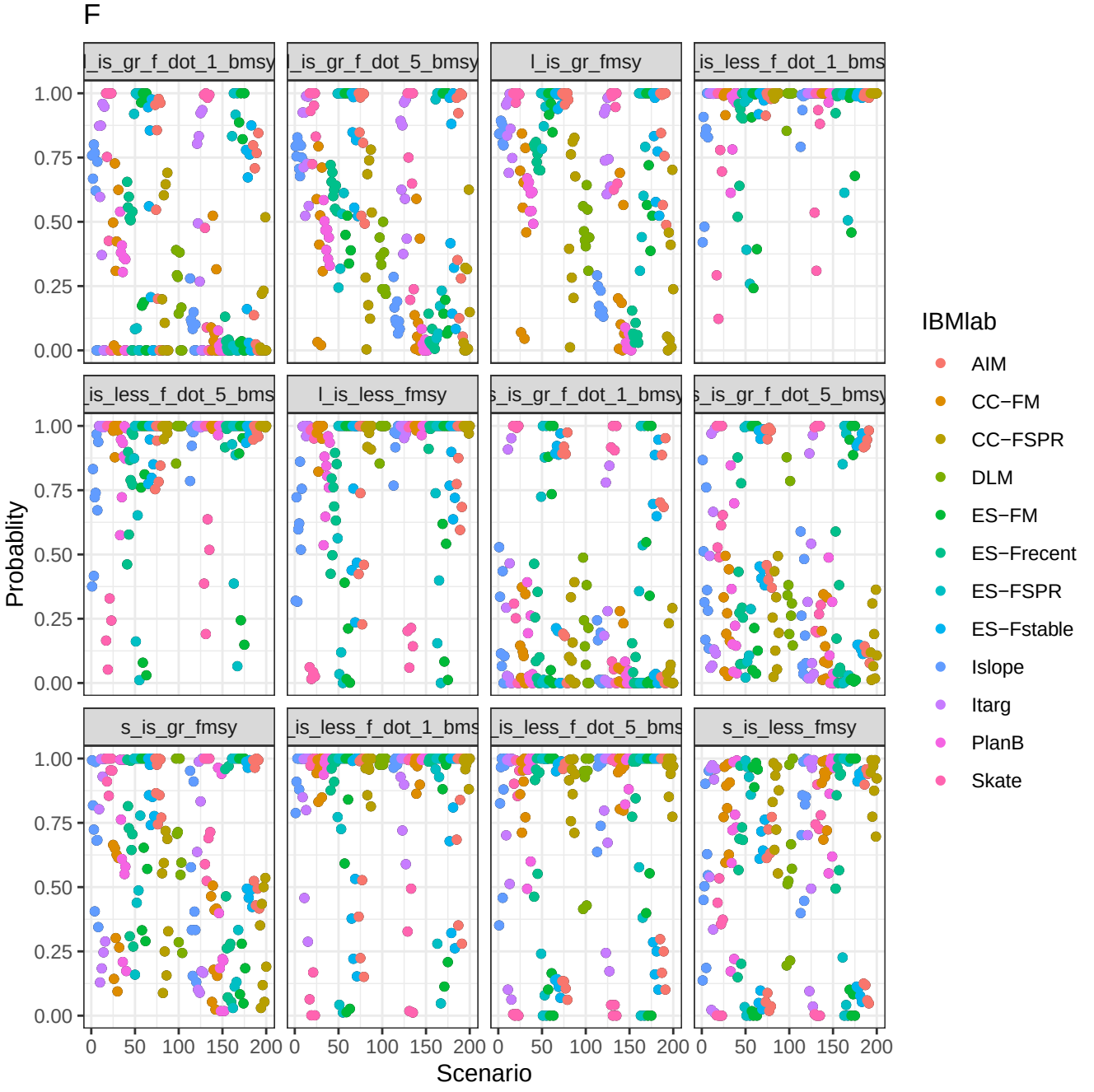
l_is_gr_f_dot_5_bmsy
l_is_gr_fmsy
_is_less_f_dot_1_bmsy
_is_less_f_dot_5_bmsy
l_is_less_fmsy
s_is_gr_f_dot_1_bmsy
s_is_gr_f_dot_5_bmsy
s_is_gr_fmsy
_is_less_f_dot_1_bmsy
_is_less_f_dot_5_bmsy
s_is_less_fmsy
Probablity
0.00
0.25
0.50
0.75
1.00
0
50
100
150
200
Scenario
retro_type
Catch
M


F
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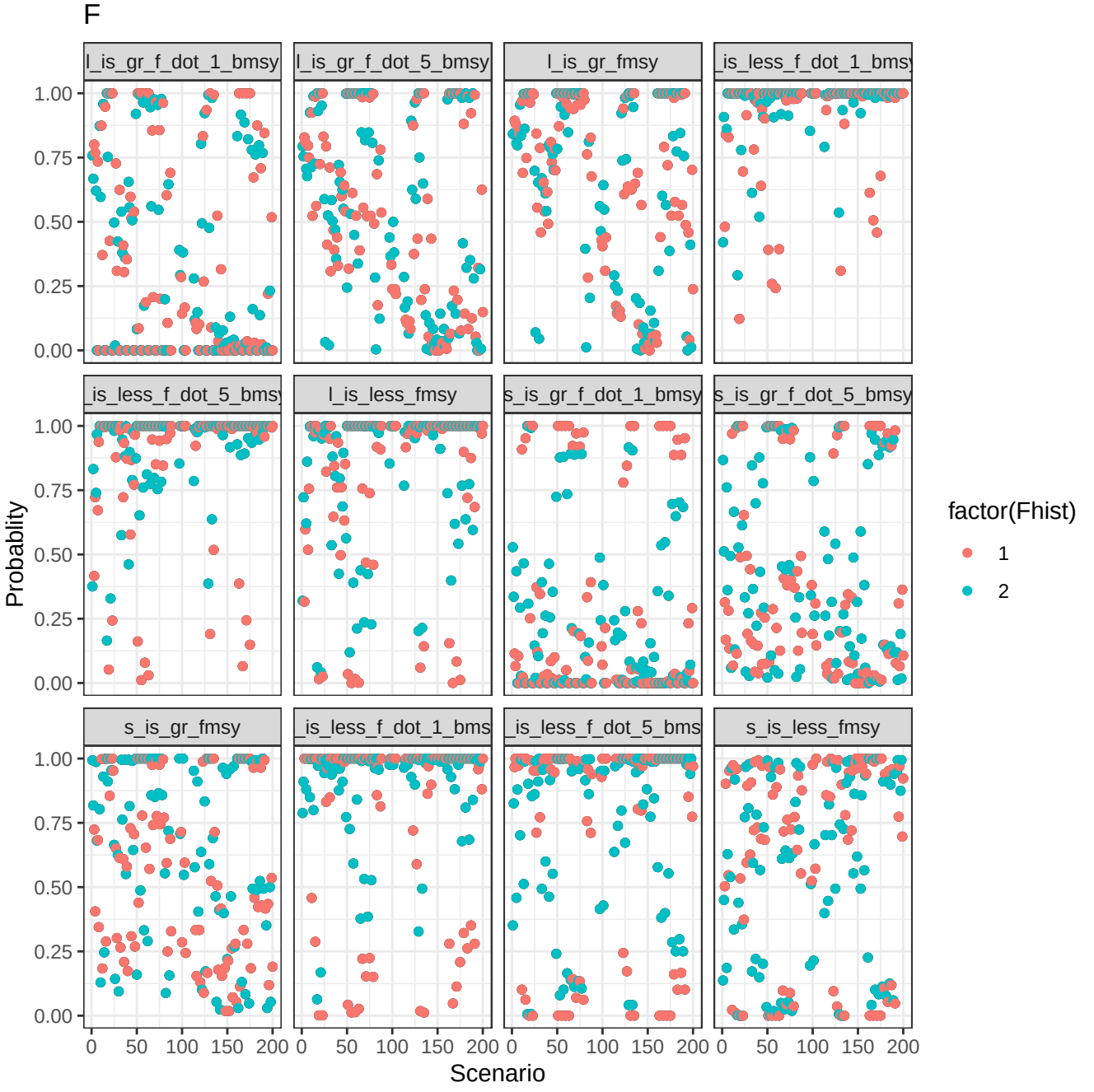
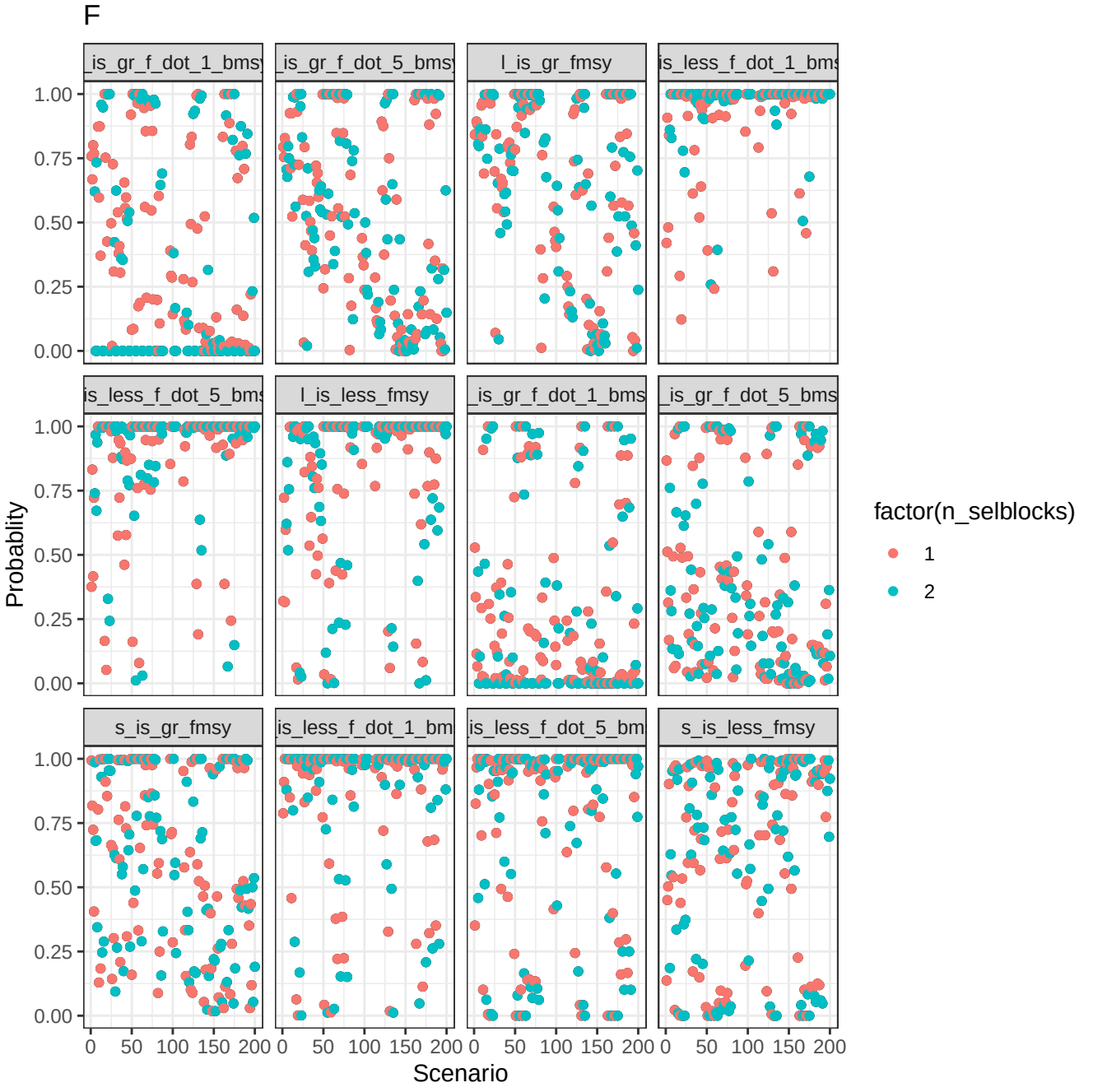
l_is_gr_f_dot_5_bmsy
l_is_gr_fmsy
_is_less_f_dot_1_bms
_is_less_f_dot_5_bms
l_is_less_fmsy
s_is_gr_f_dot_1_bmsy
s_is_gr_f_dot_5_bmsy
s_is_gr_fmsy
_is_less_f_dot_1_bms
_is_less_f_dot_5_bms
s_is_less_fmsy
Probablity
Scenario
0.00
0.25
0.50
0.75
1.00
0
50
100
150
200
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate


F
l_is_gr_f_dot_1_bmsy
l_is_gr_f_dot_5_bmsy
l_is_gr_fmsy
_is_less_f_dot_1_bmsy
_is_less_f_dot_5_bmsy
l_is_less_fmsy
s_is_gr_f_dot_1_bmsy
s_is_gr_f_dot_5_bmsy
s_is_gr_fmsy
_is_less_f_dot_1_bms
_is_less_f_dot_5_bms
s_is_less_fmsy
Probablity
0.00
0.25
0.50
0.75
1.00
0
50
100
150
200
Scenario
factor(Fhist)
1
2


F
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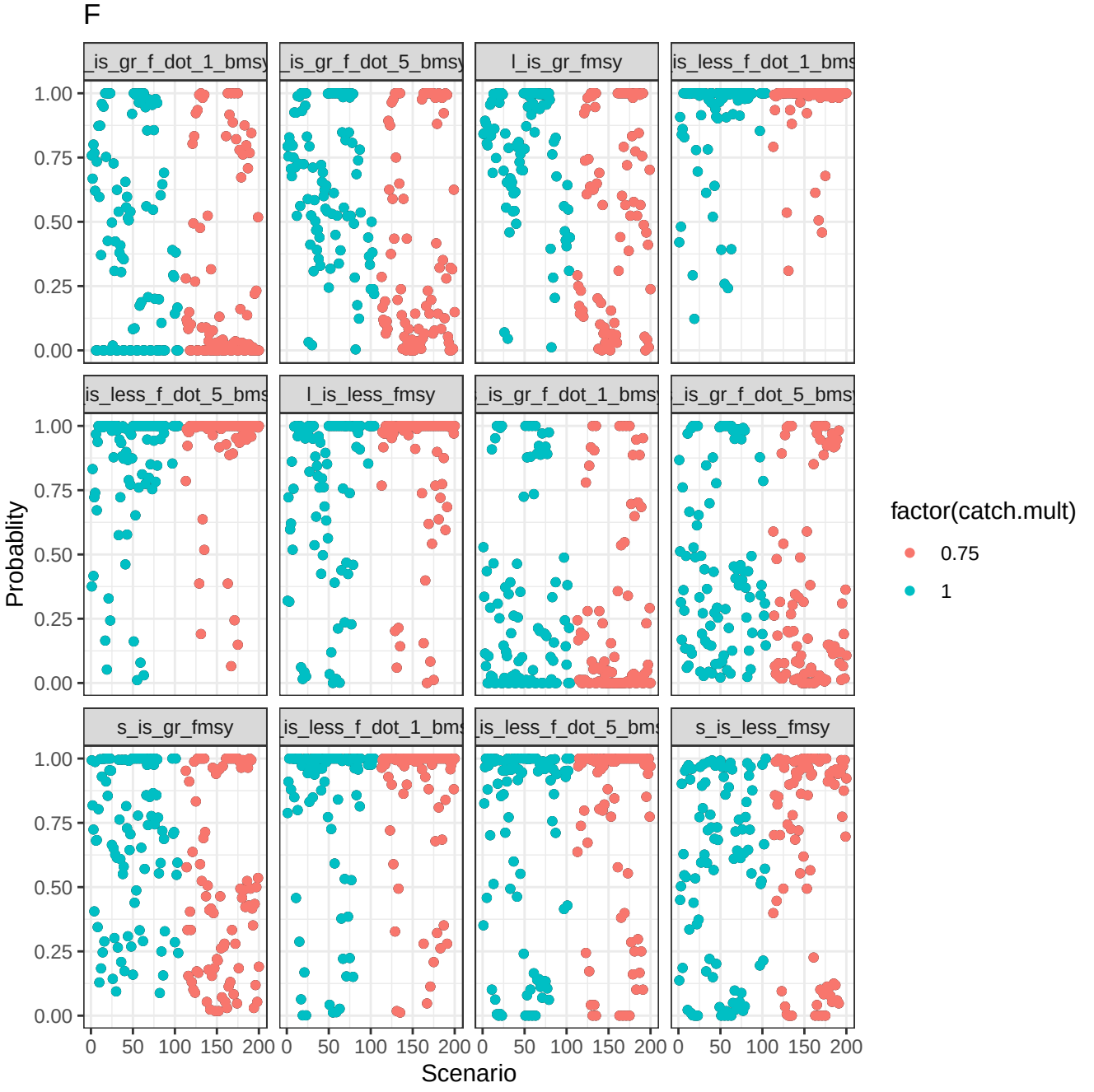
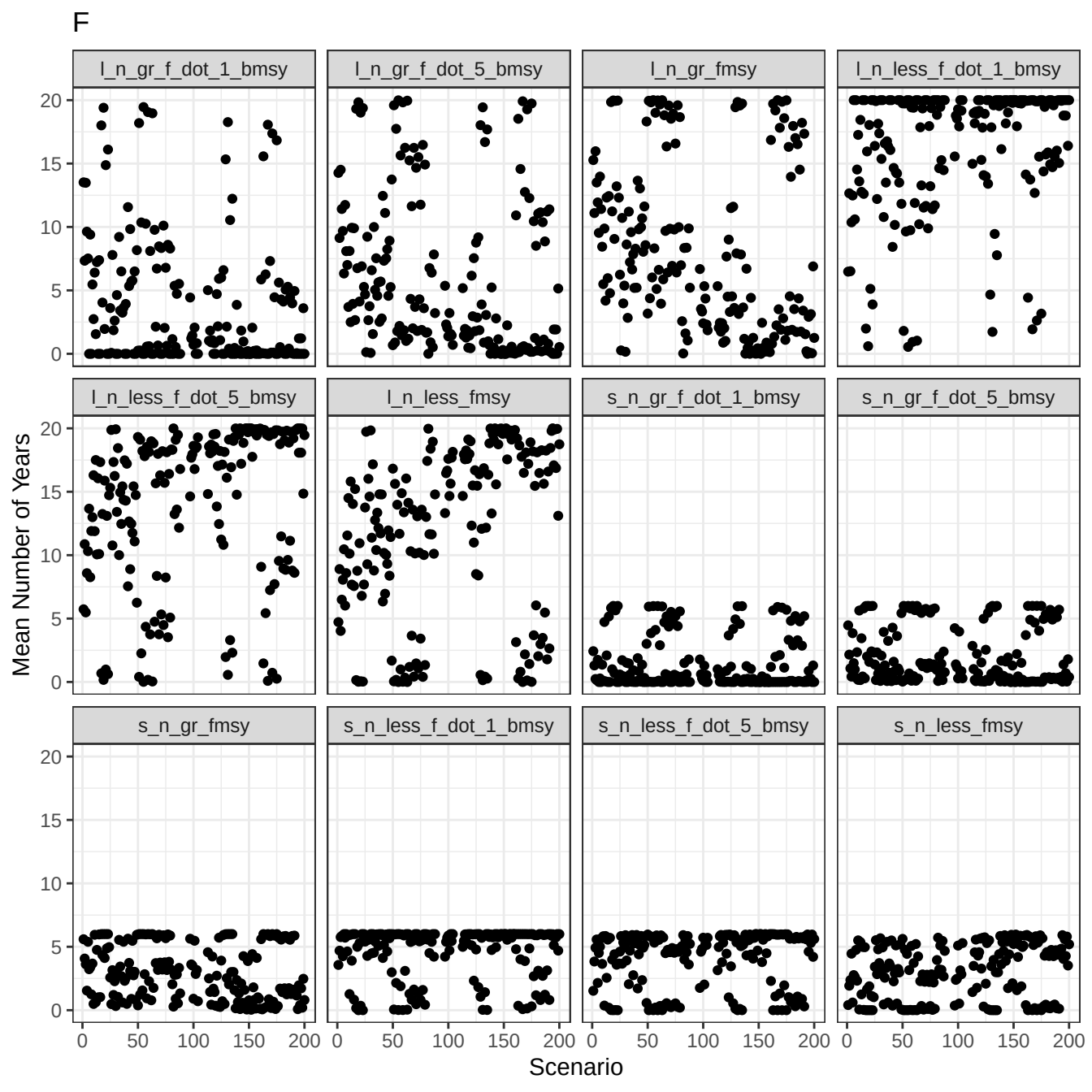
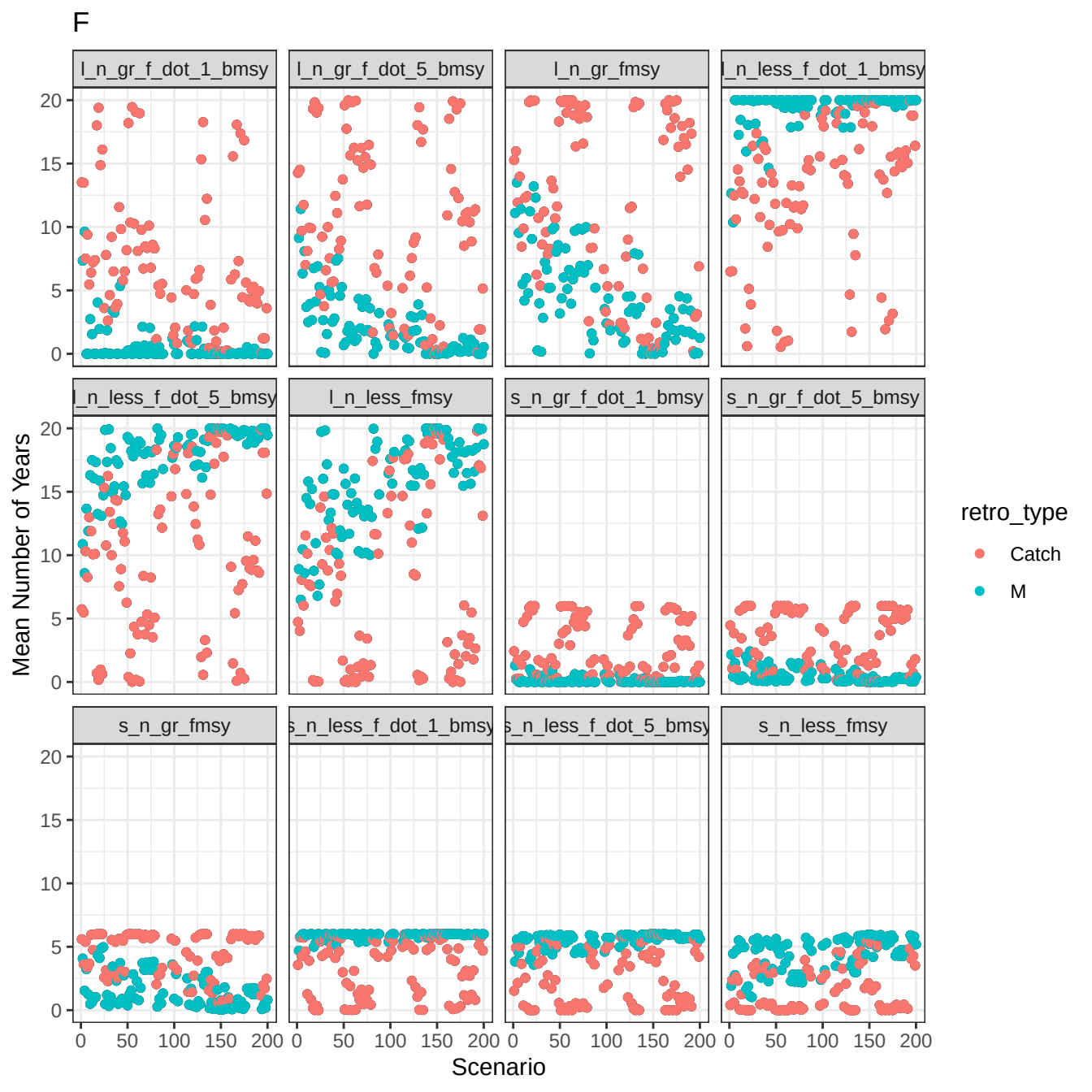
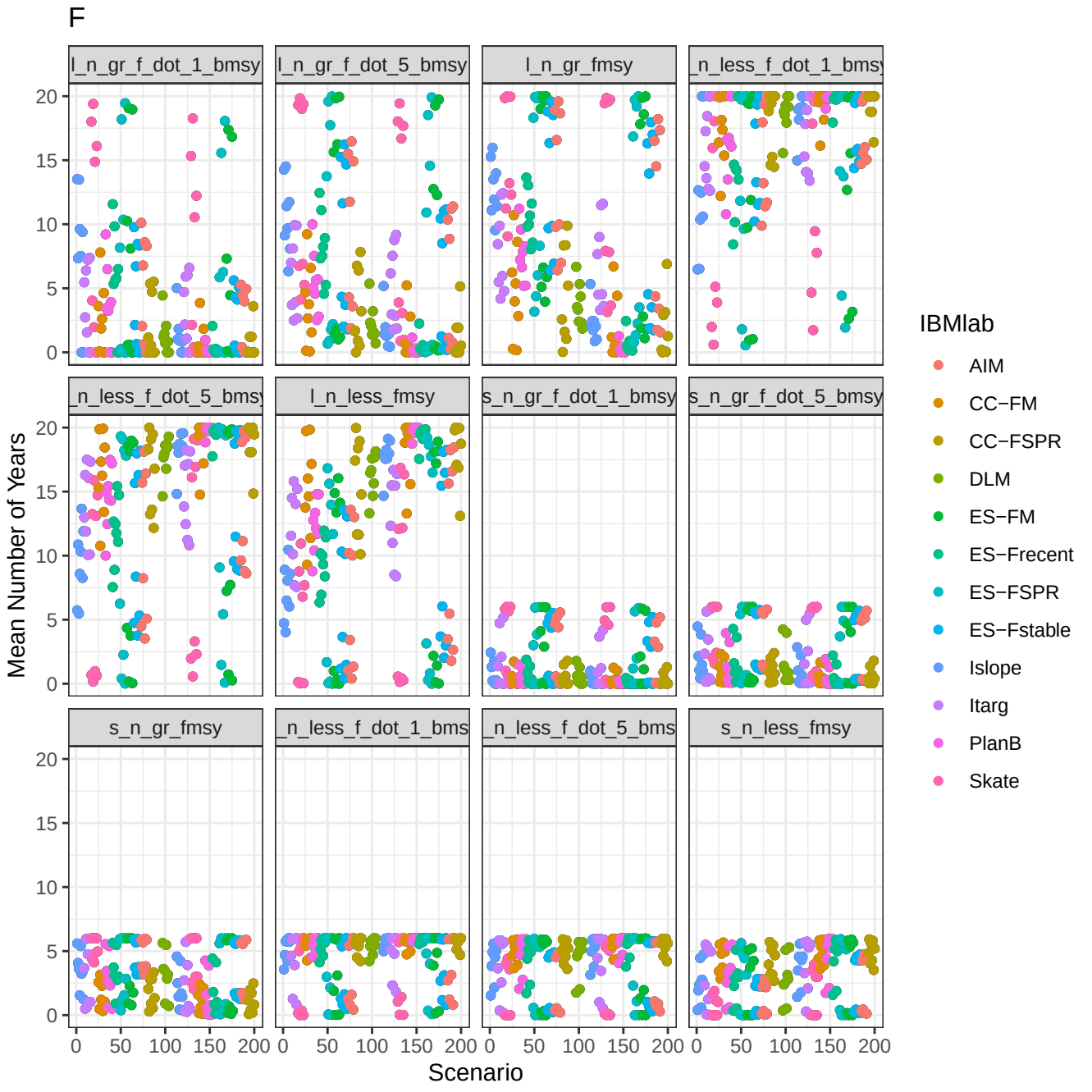
is_gr_f_dot_5_bmsy
l_is_gr_fmsy
is_less_f_dot_1_bms
is_less_f_dot_5_bms
l_is_less_fmsy
_is_gr_f_dot_1_bms
_is_gr_f_dot_5_bms
s_is_gr_fmsy
is_less_f_dot_1_bm
is_less_f_dot_5_bm
s_is_less_fmsy
Probablity
Scenario
0.00
0.25
0.50
0.75
1.00
0
50
100
150
200
factor(n_selblocks)
1
2

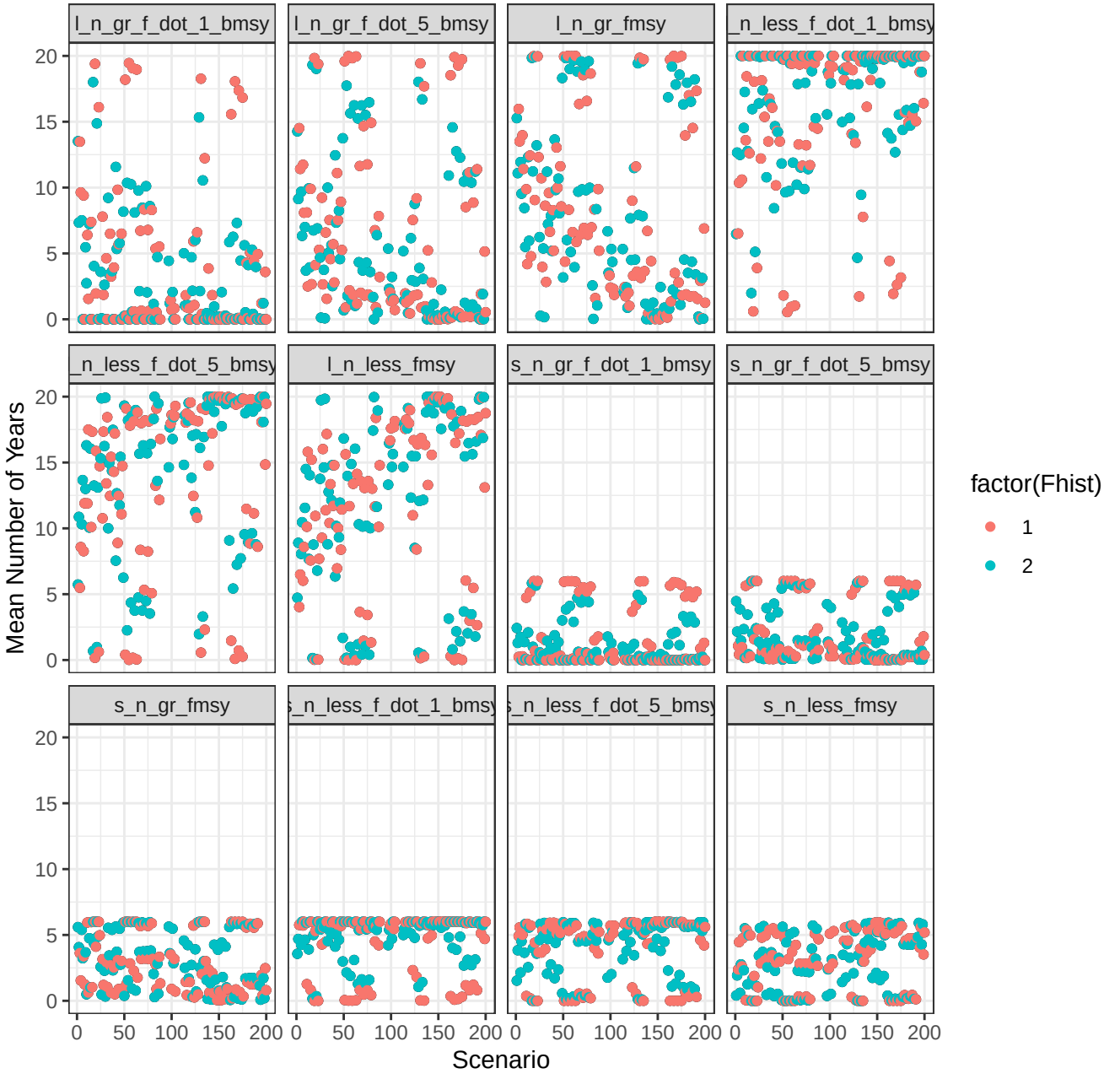

F
_is_gr_f_dot_1_bmsy
_is_gr_f_dot_5_bmsy
l_is_gr_fmsy
is_less_f_dot_1_bms
is_less_f_dot_5_bms
l_is_less_fmsy
_is_gr_f_dot_1_bms
_is_gr_f_dot_5_bms
s_is_gr_fmsy
is_less_f_dot_1_bms
is_less_f_dot_5_bms
s_is_less_fmsy
Probablity
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
factor(catch.mult)
0.75
1

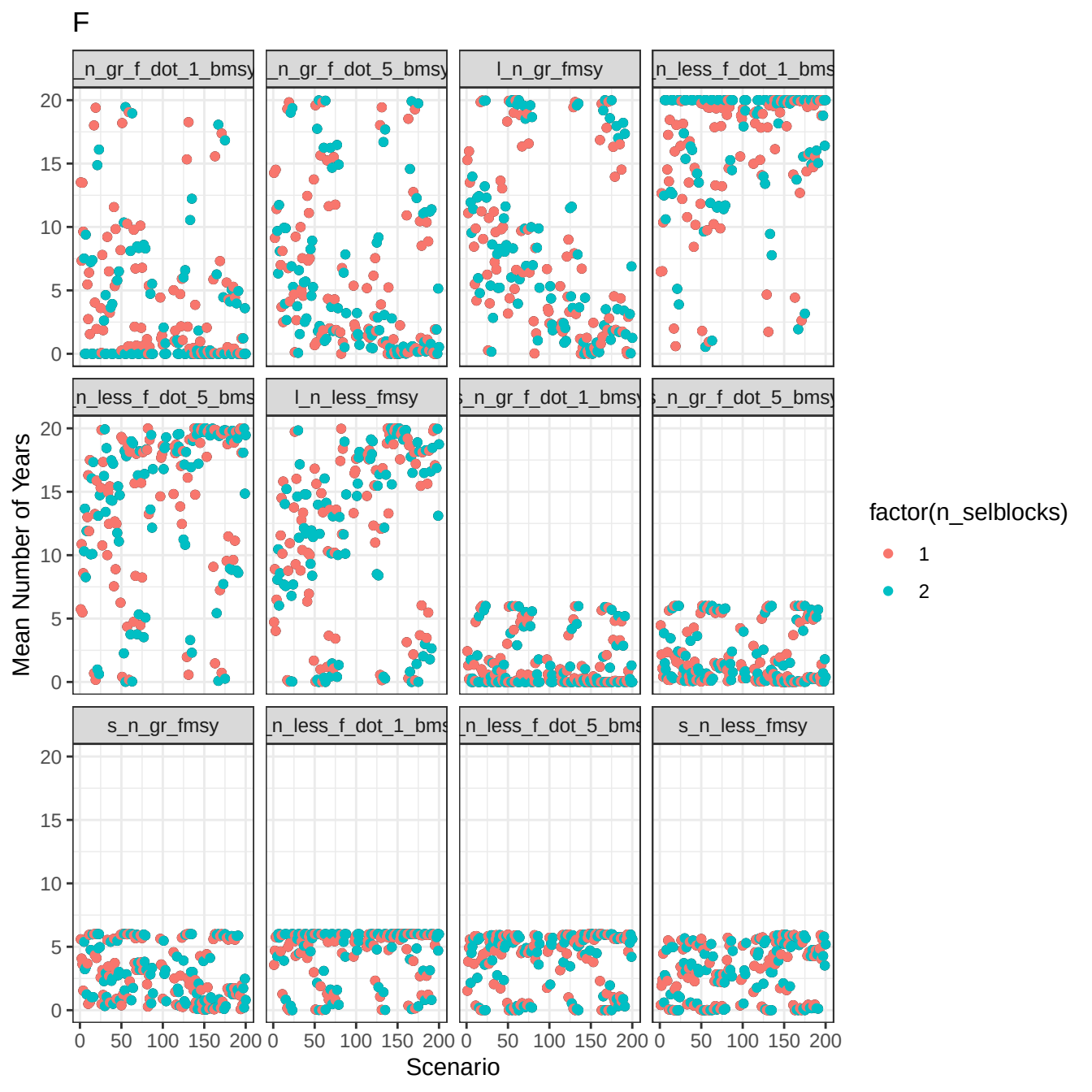

F
l_n_gr_f_dot_1_bmsy
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
l_n_less_f_dot_1_bmsy
l_n_less_f_dot_5_bmsy
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
s_n_less_f_dot_1_bmsy
s_n_less_f_dot_5_bmsy
s_n_less_fmsy
Mean Number of Years
Scenario
0
5
10
15
20
0
50
100
150
200

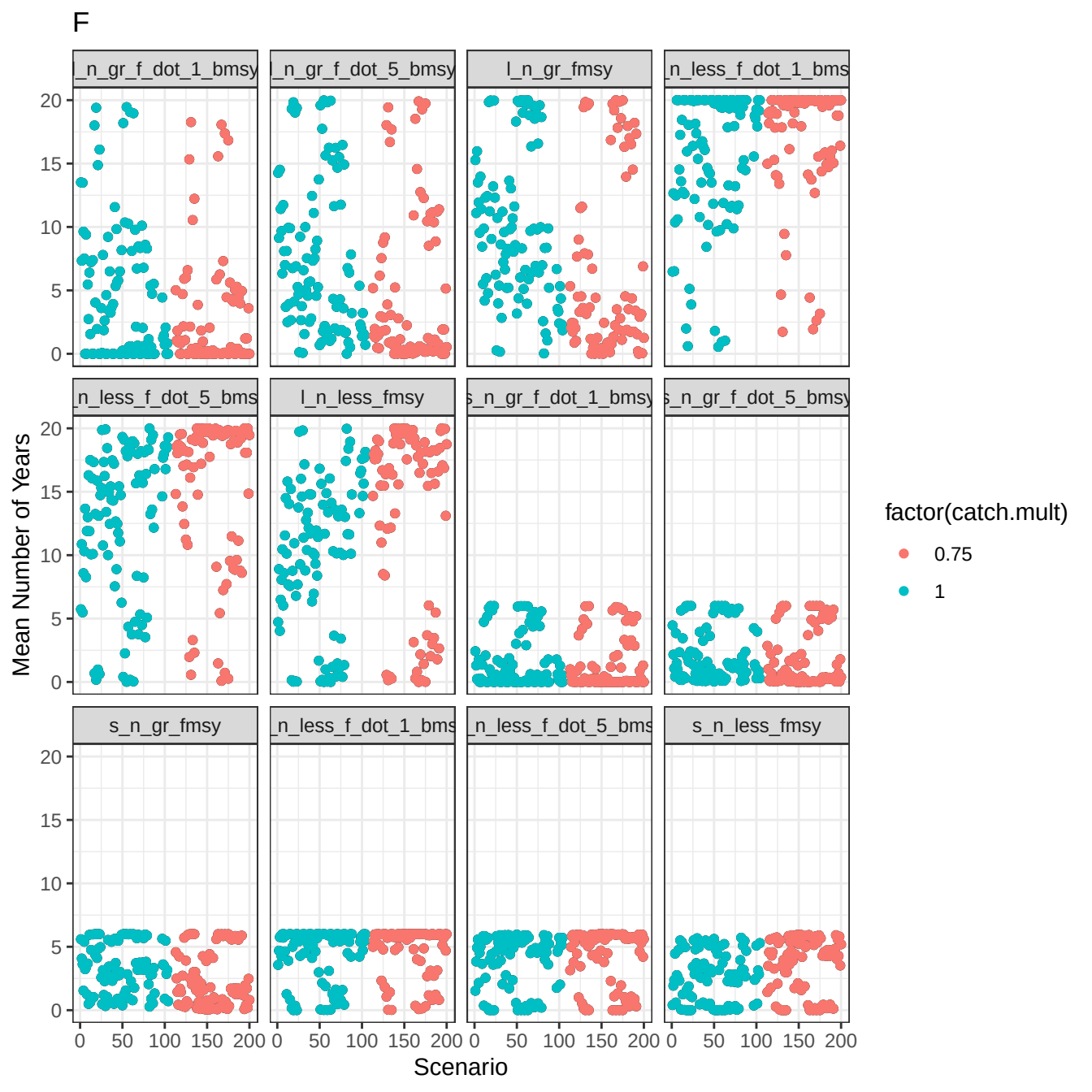

F
l_n_gr_f_dot_1_bmsy
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
l_n_less_f_dot_1_bmsy
l_n_less_f_dot_5_bmsy
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
s_n_less_f_dot_1_bmsy
s_n_less_f_dot_5_bmsy
s_n_less_fmsy
Mean Number of Years
Scenario
retro_type
Catch
M


F
l_n_gr_f_dot_1_bmsy
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
_n_less_f_dot_1_bmsy
_n_less_f_dot_5_bmsy
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
_n_less_f_dot_1_bms
_n_less_f_dot_5_bms
s_n_less_fmsy
Mean Number of Years
Scenario
0
5
10
15
20
50
100
150
200
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

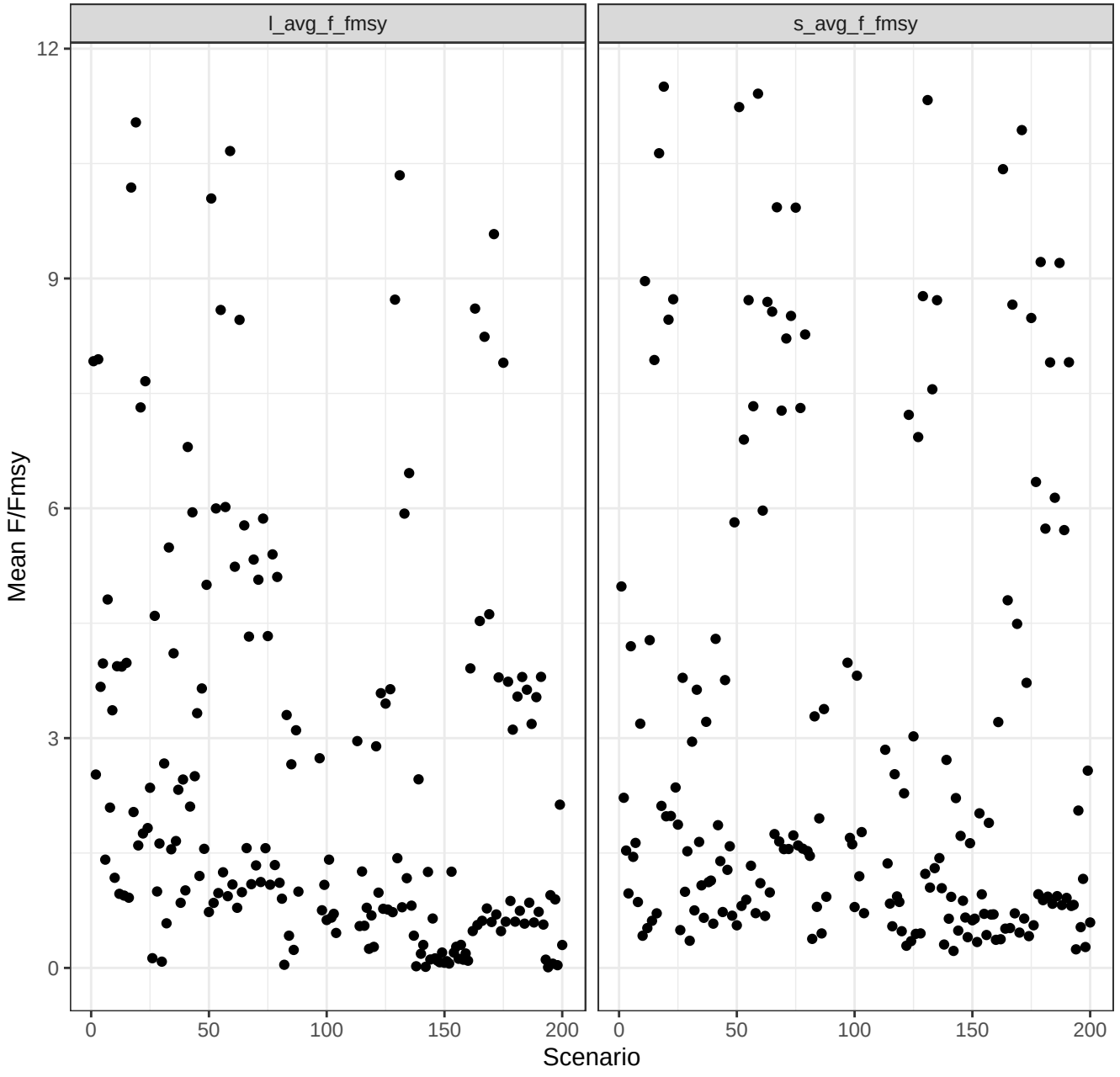
F

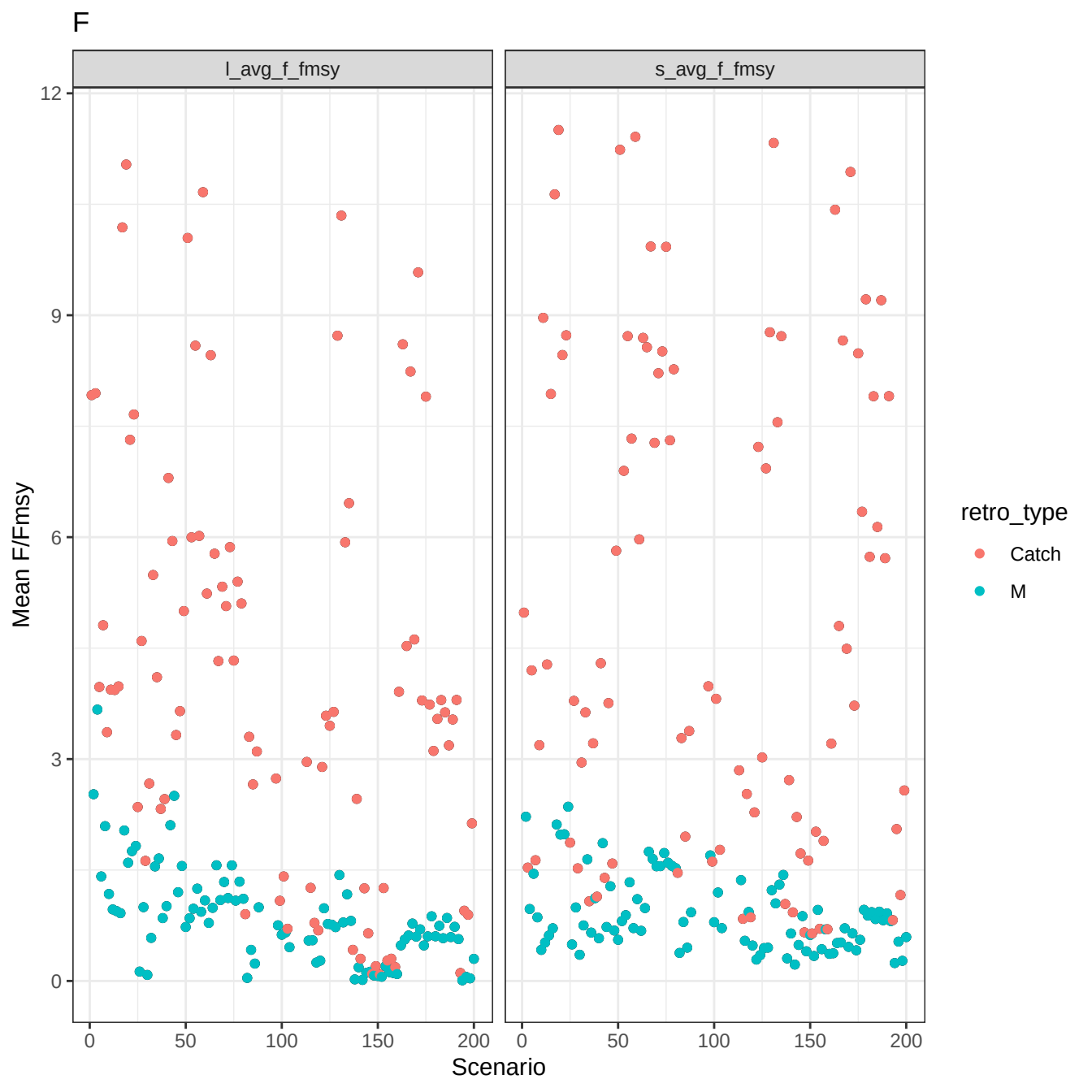

l_n_gr_f_dot_1_bmsy
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
_n_less_f_dot_1_bmsy
_n_less_f_dot_5_bmsy
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
s_n_less_f_dot_1_bmsy
s_n_less_f_dot_5_bmsy
s_n_less_fmsy
Mean Number of Years
Scenario
factor(Fhist)
1
2

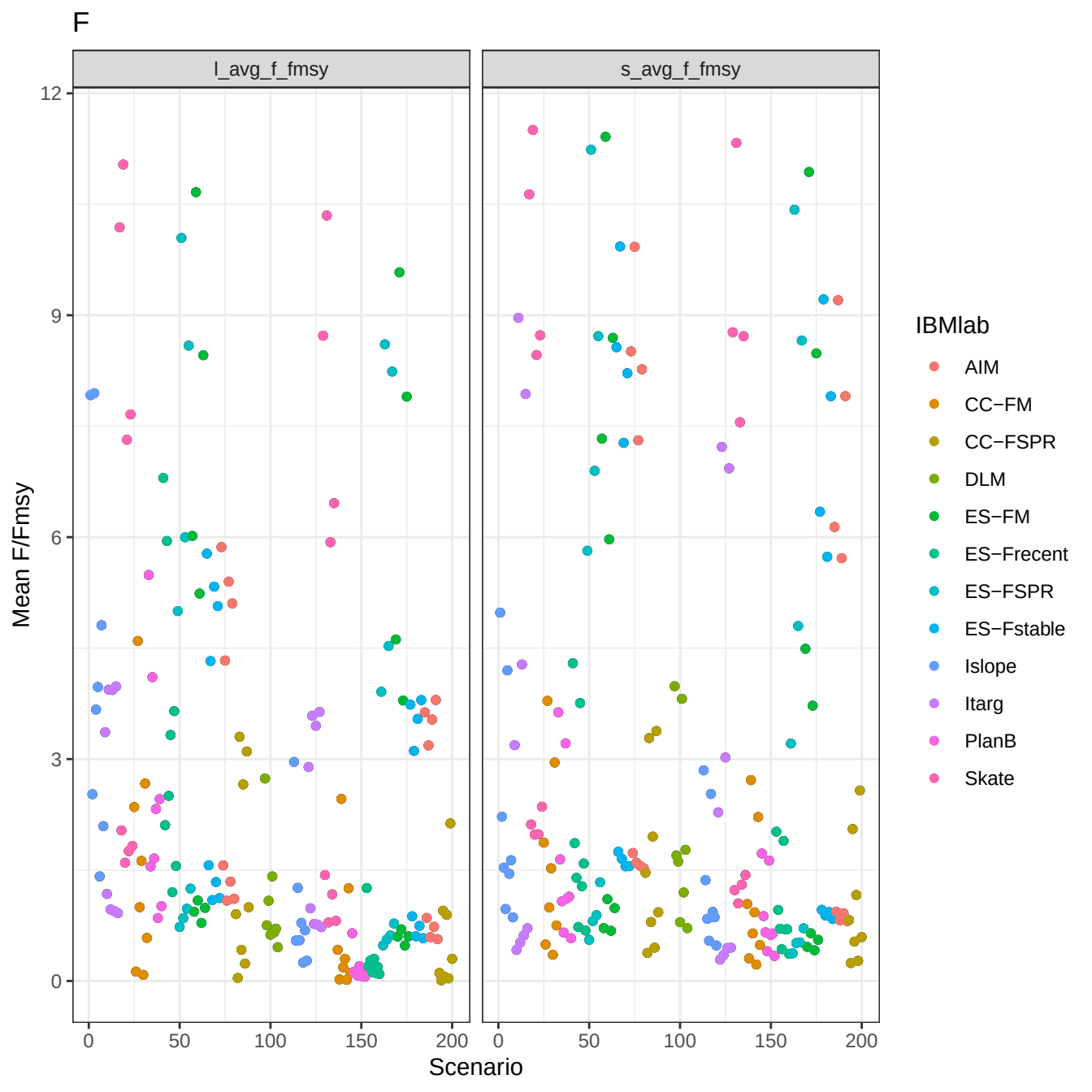

F
_n_gr_f_dot_1_bmsy
_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
n_less_f_dot_1_bms
n_less_f_dot_5_bms
l_n_less_fmsy
_n_gr_f_dot_1_bmsy
_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
_n_less_f_dot_1_bms
_n_less_f_dot_5_bms
s_n_less_fmsy
Mean Number of Years
Scenario
factor(n_selblocks)
1
2

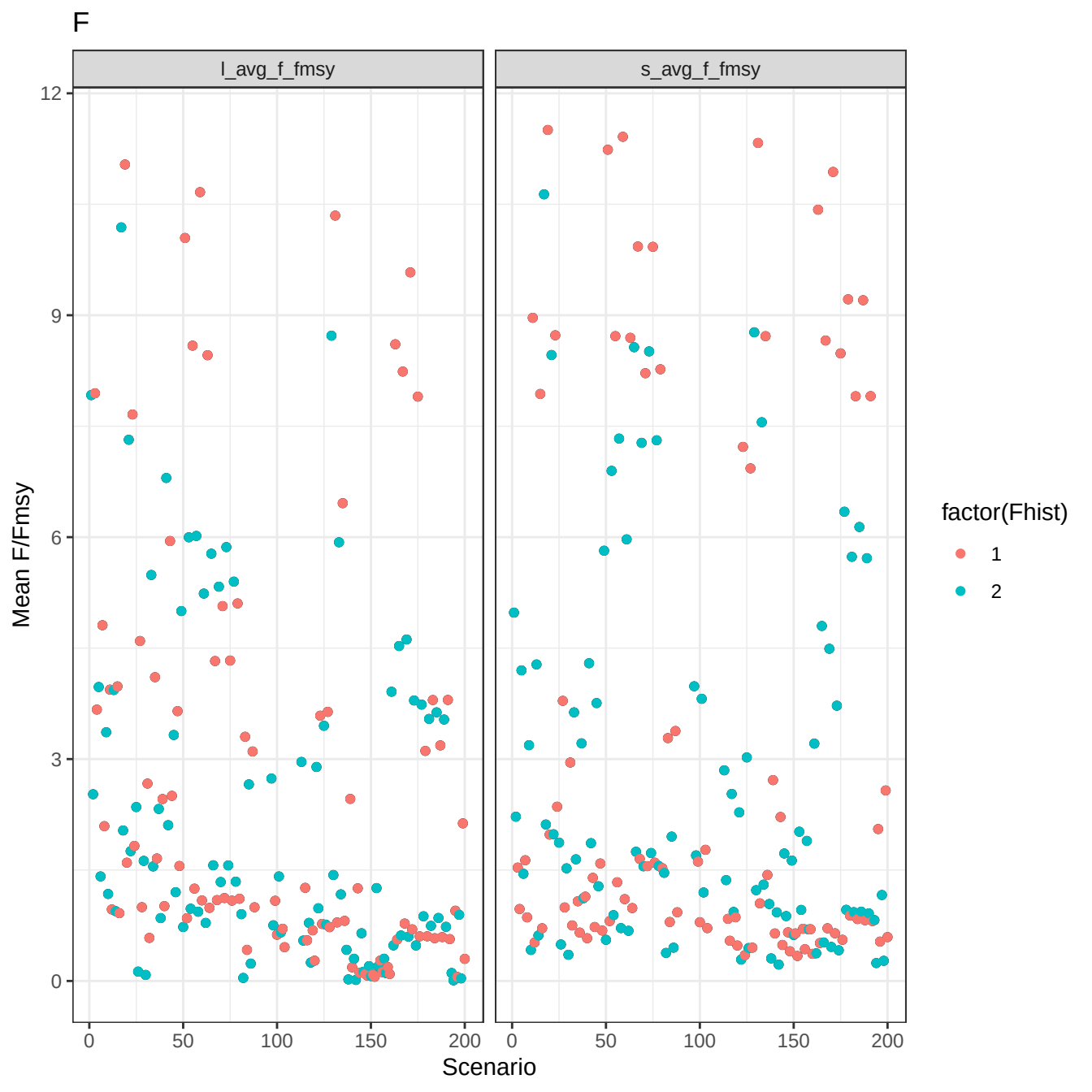

F
l_n_gr_f_dot_1_bmsy
l_n_gr_f_dot_5_bmsy
l_n_gr_fmsy
l_n_less_f_dot_1_bms
l_n_less_f_dot_5_bms
l_n_less_fmsy
s_n_gr_f_dot_1_bmsy
s_n_gr_f_dot_5_bmsy
s_n_gr_fmsy
l_n_less_f_dot_1_bms
l_n_less_f_dot_5_bms
s_n_less_fmsy
Mean Number of Years
Scenario
factor(catch.mult)
0.75
1

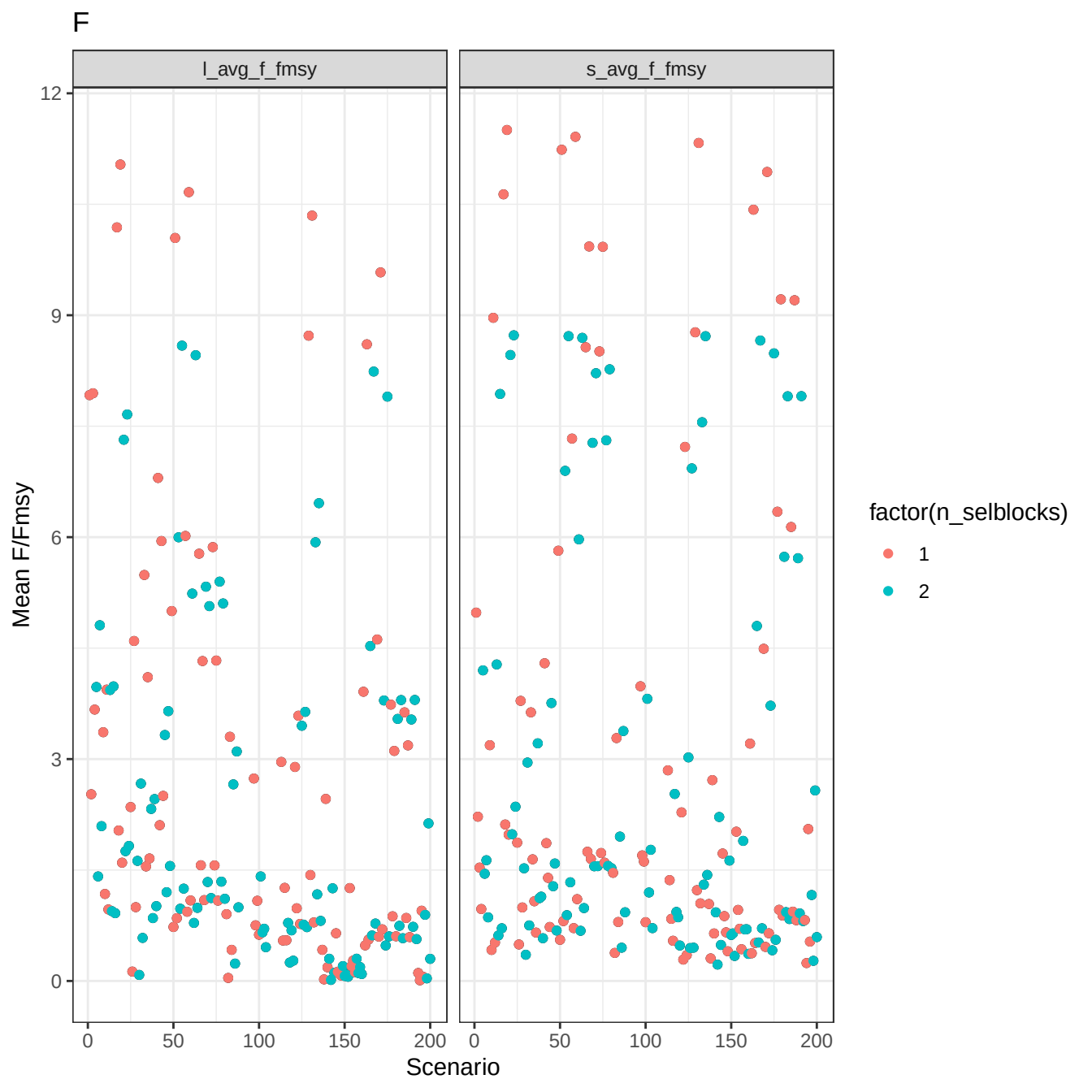
F

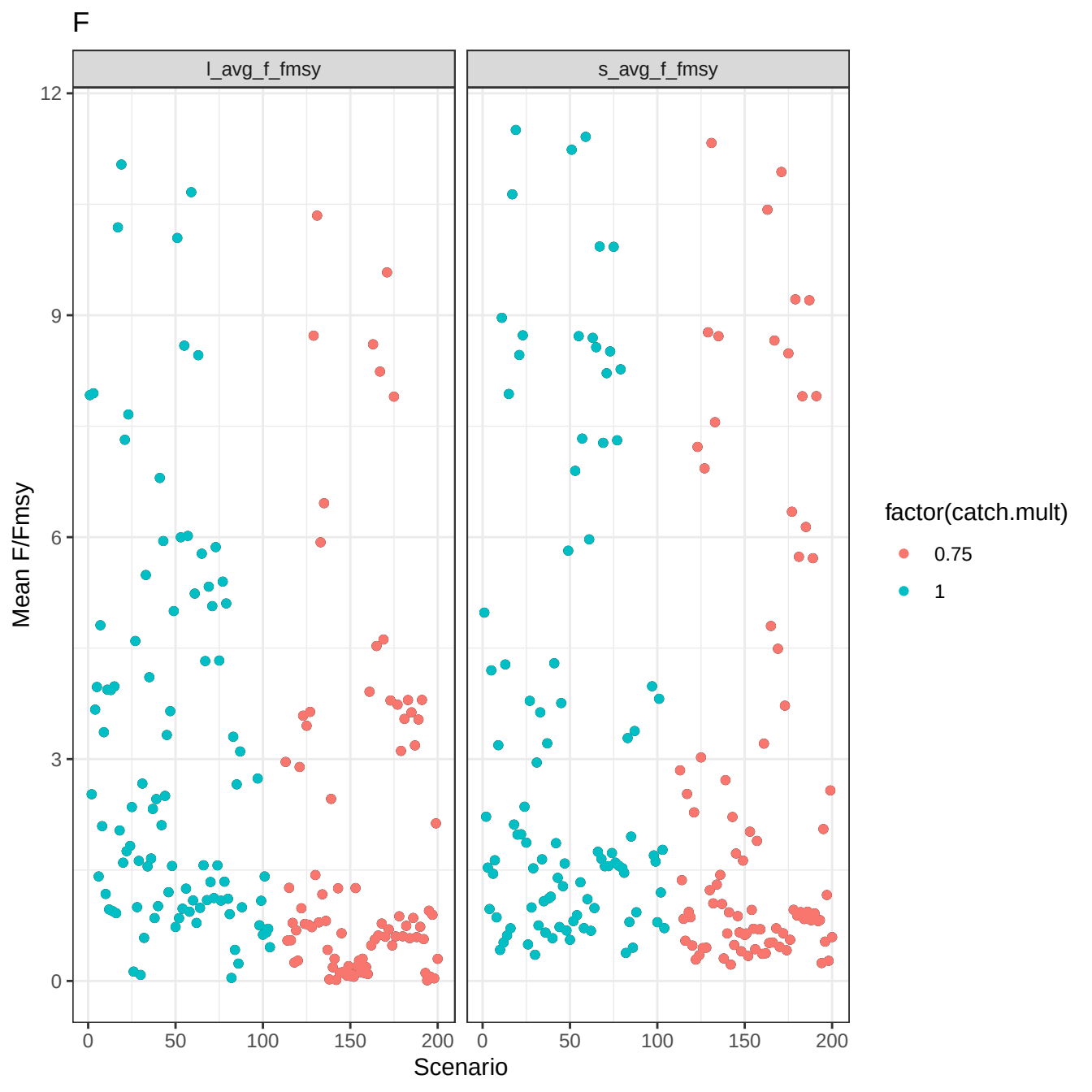

l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
0
3
6
9
12
0
50
100
150
200
Scenario

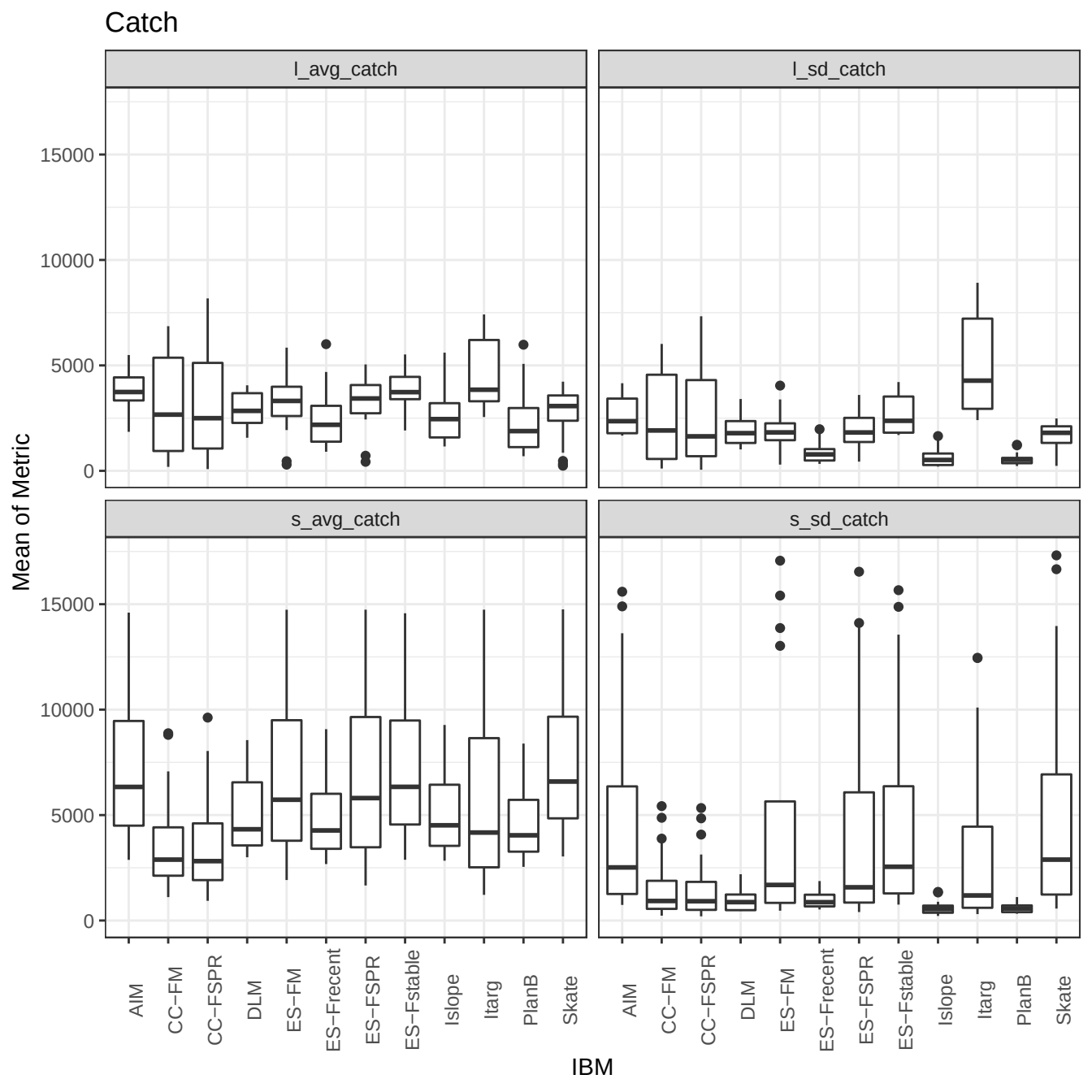

F
l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
12
9
6
3
0
0
50
100
150
200
Scenario
retro_type
Catch
M

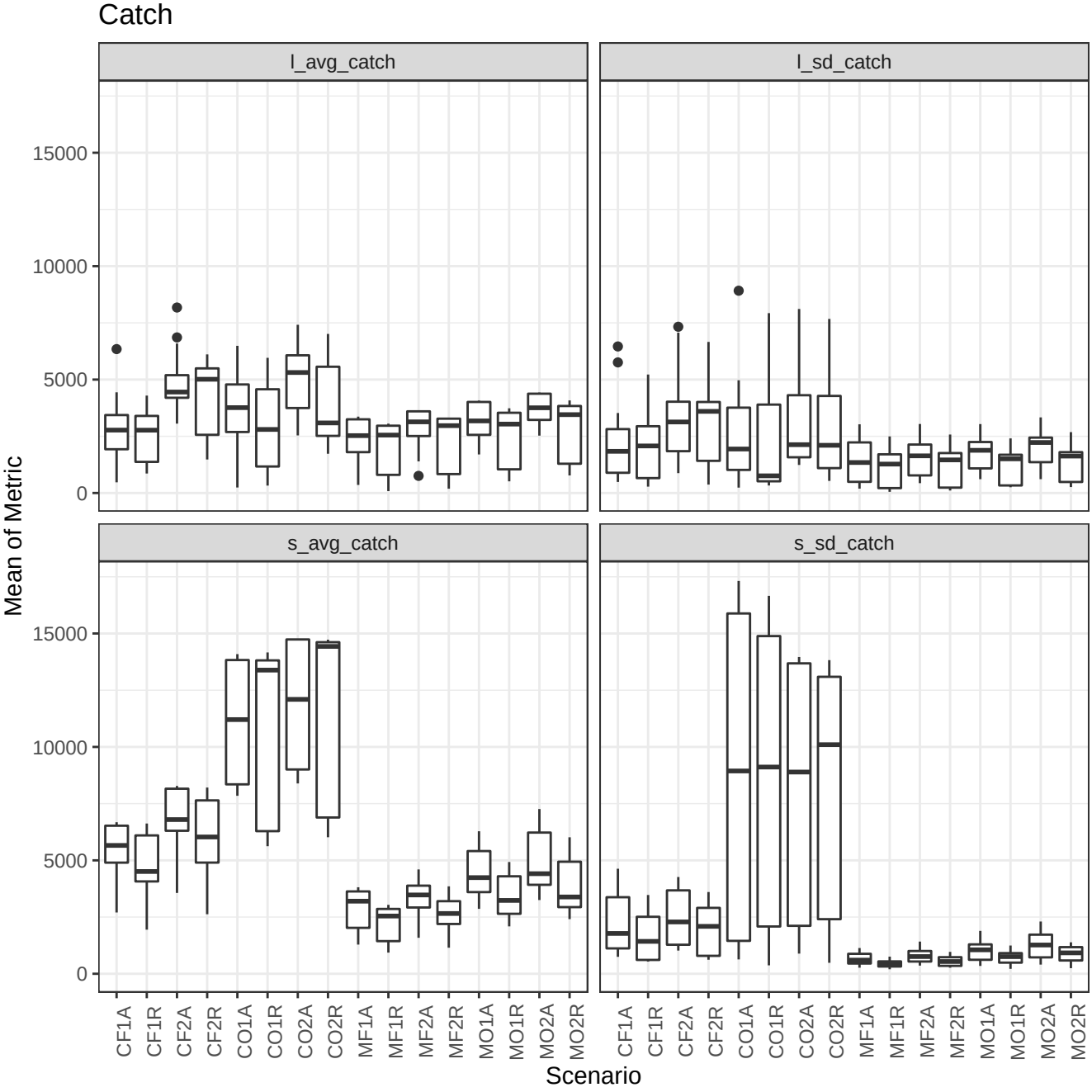

F
l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
12
9
6
3
0
0
50
100
150
200
Scenario
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

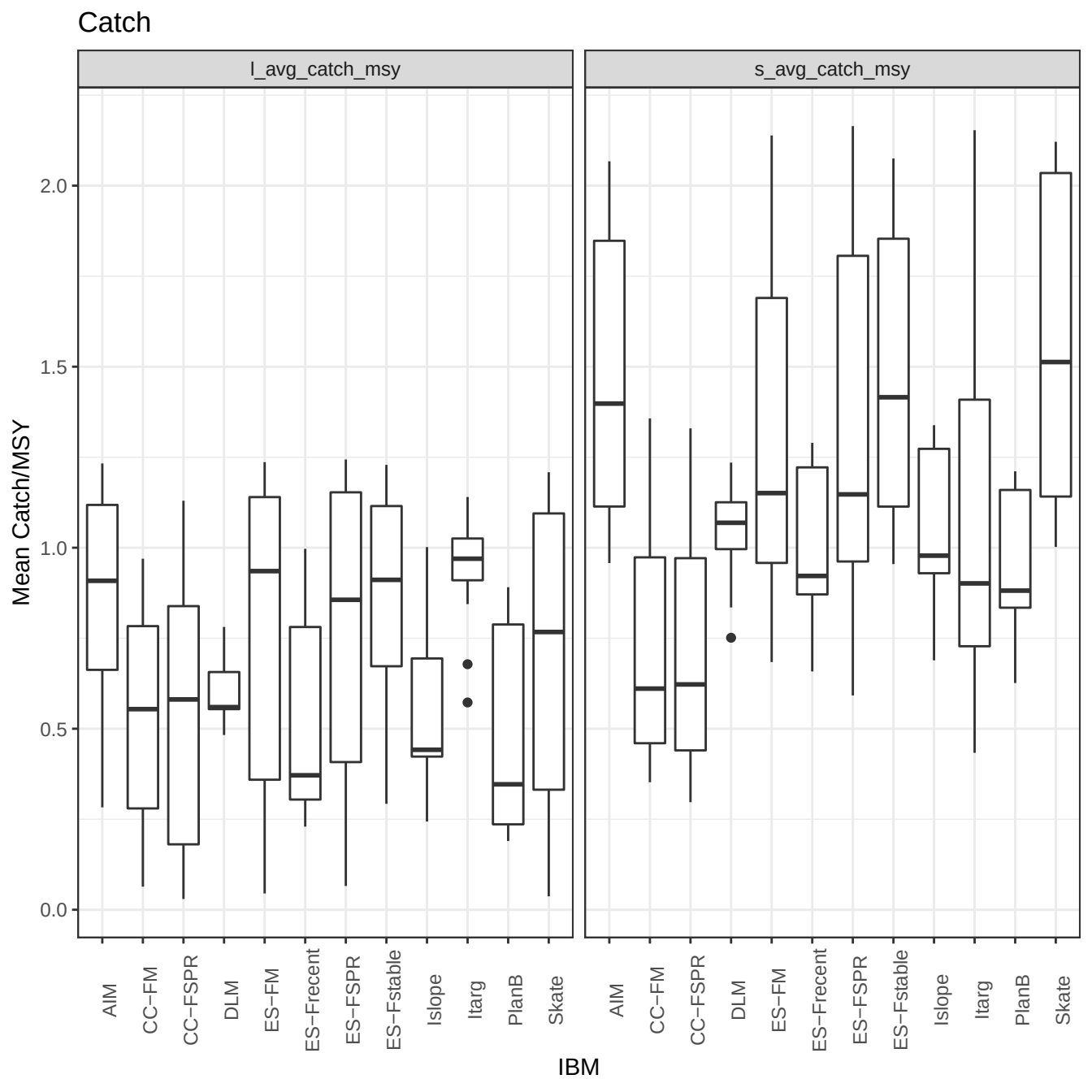

F
l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
Scenario
factor(Fhist)
1
2
0
3
6
9
12
0
50
100
150
200

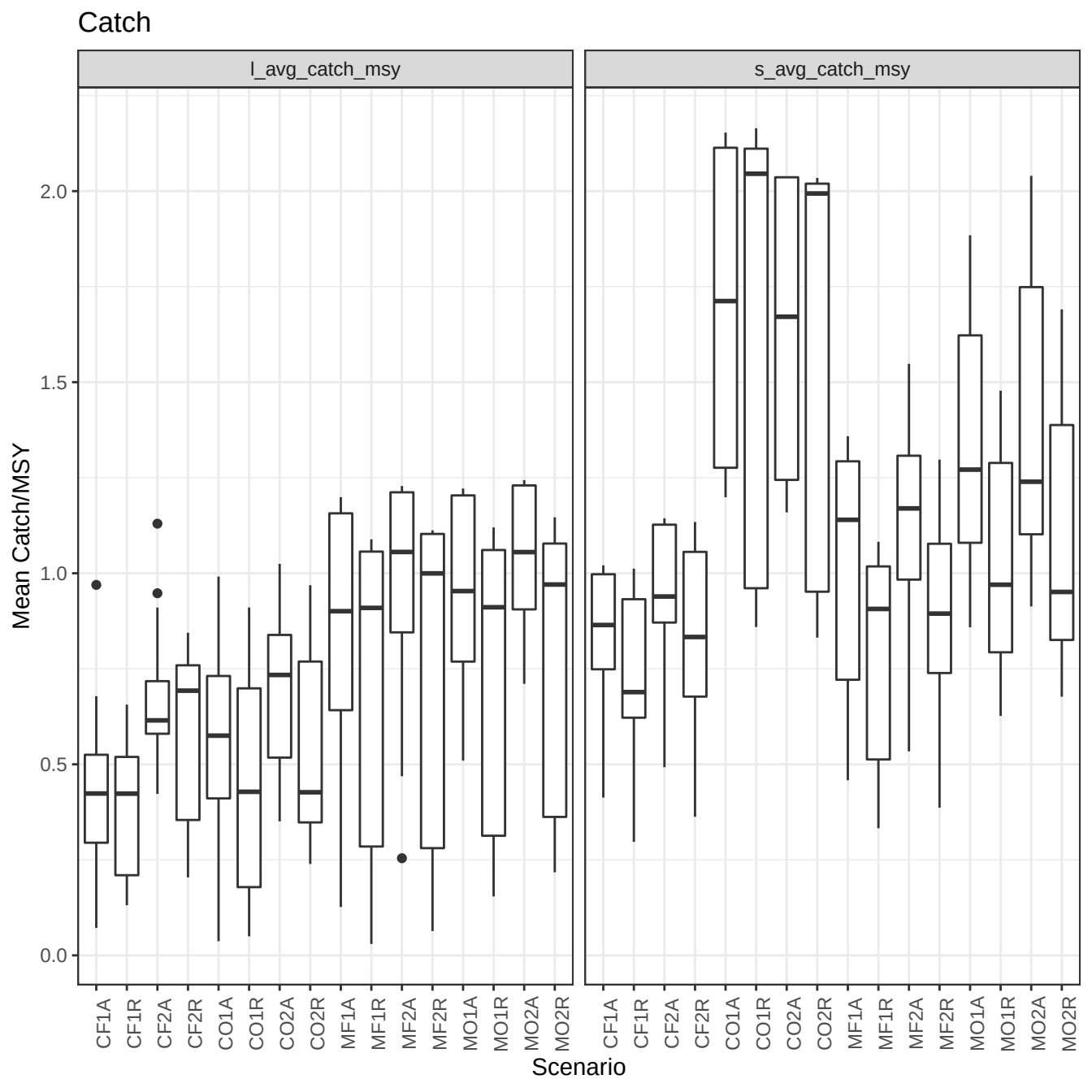

F
l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
12
9
6
3
0
0
50
100
150
200
Scenario
factor(n_selblocks)
1
2

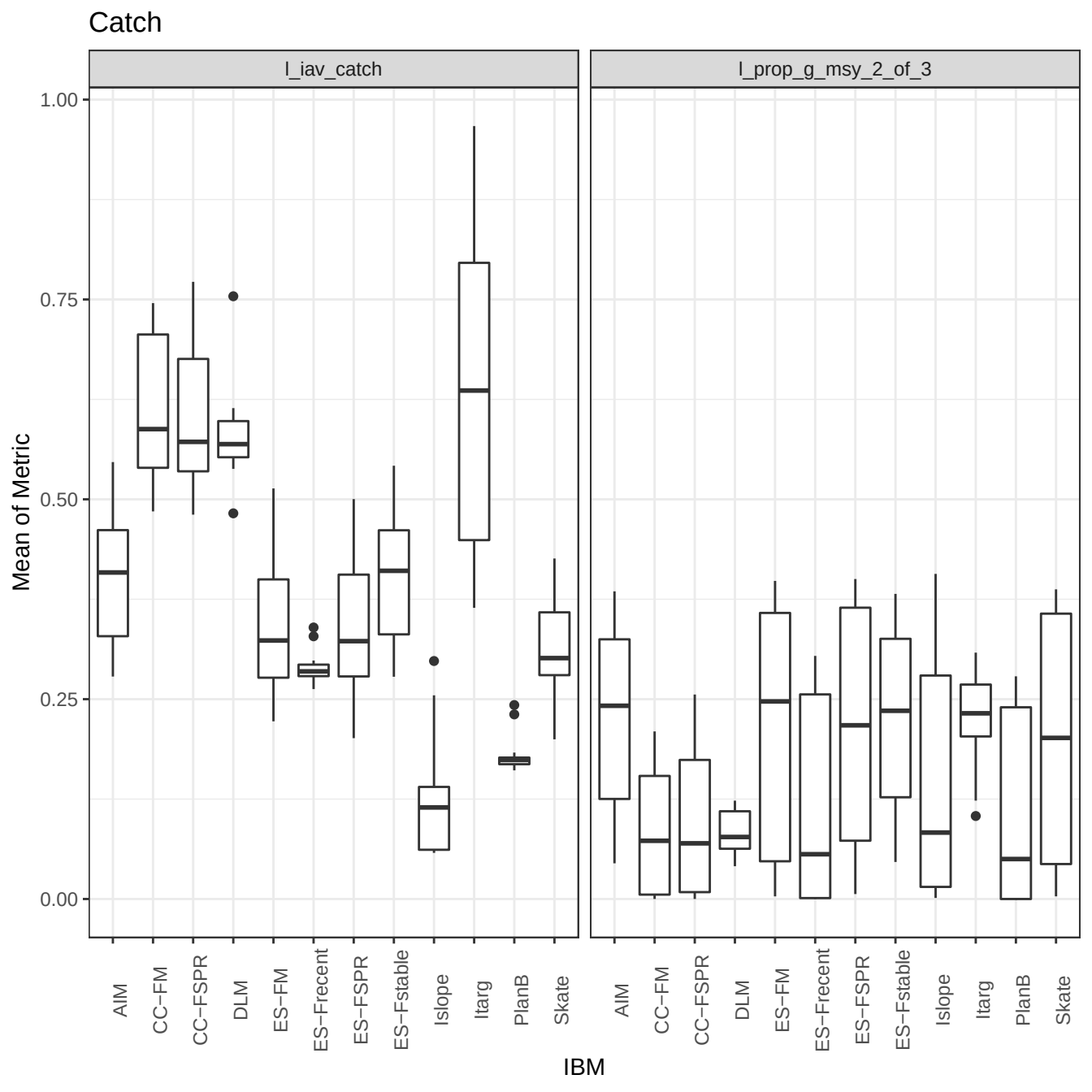

F
l_avg_f_fmsy
s_avg_f_fmsy
Mean F/Fmsy
Scenario
0
3
6
9
12
0
50
100
150
200
factor(catch.mult)
0.75
1

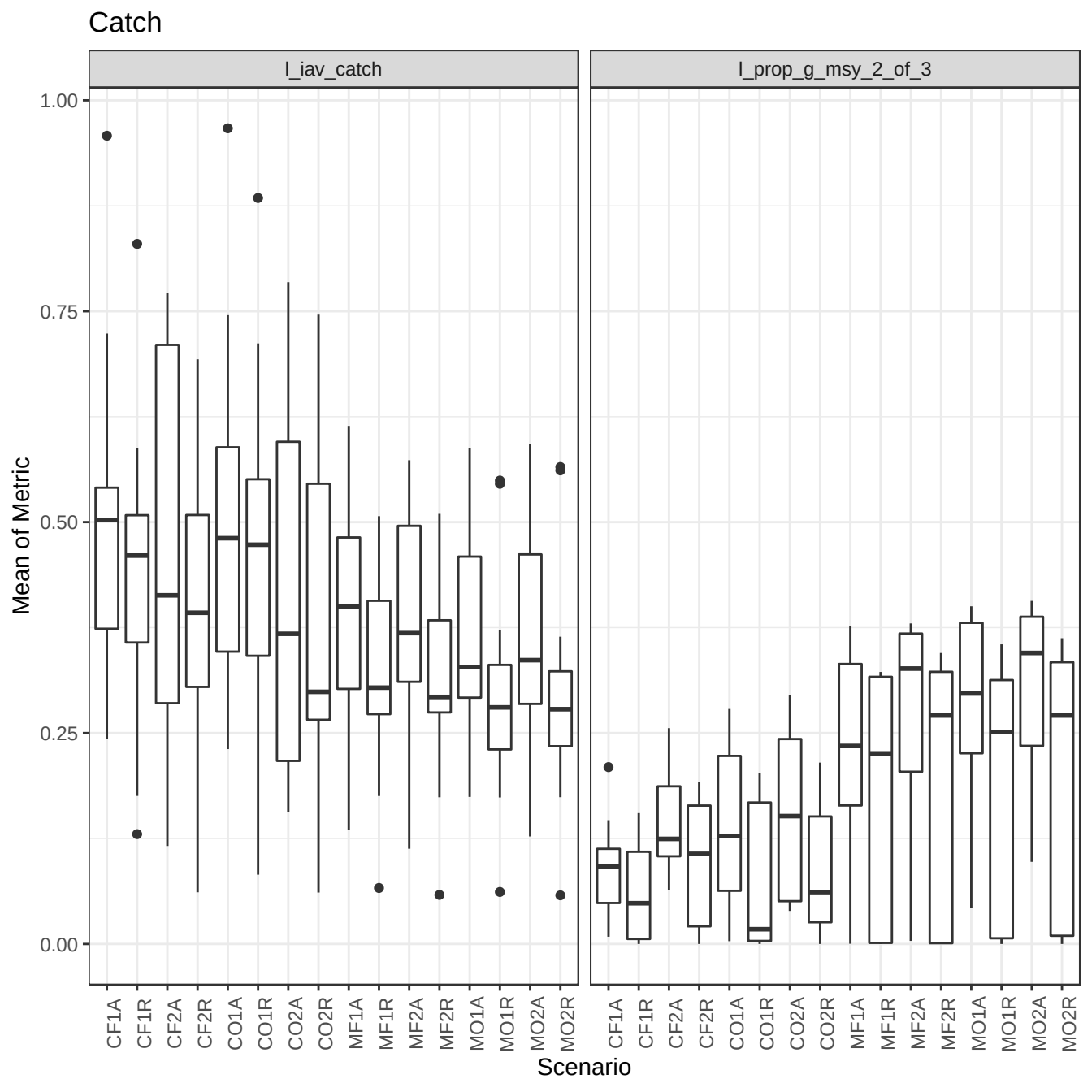

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
0
5000
10000
15000
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

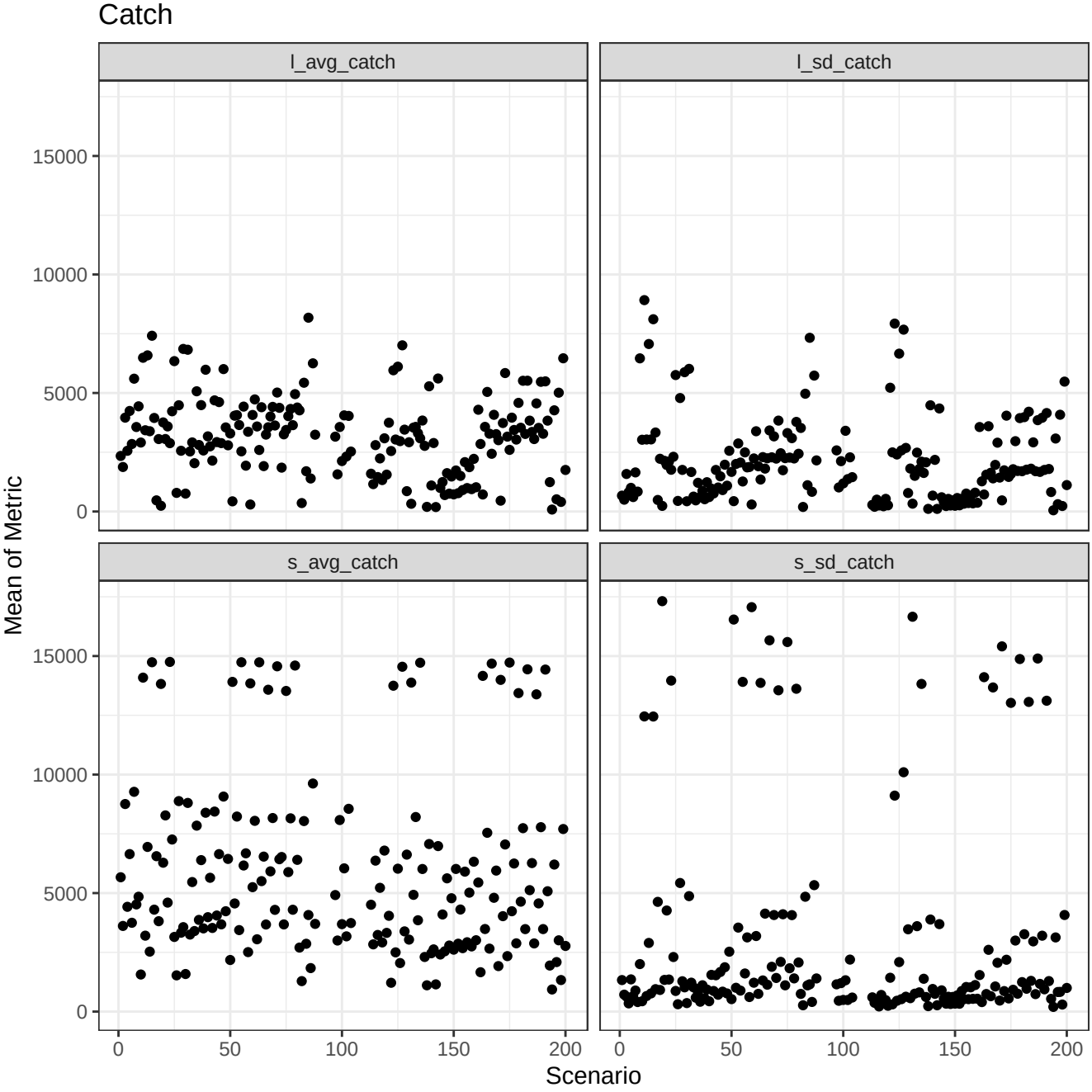

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
15000
10000
5000
0
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

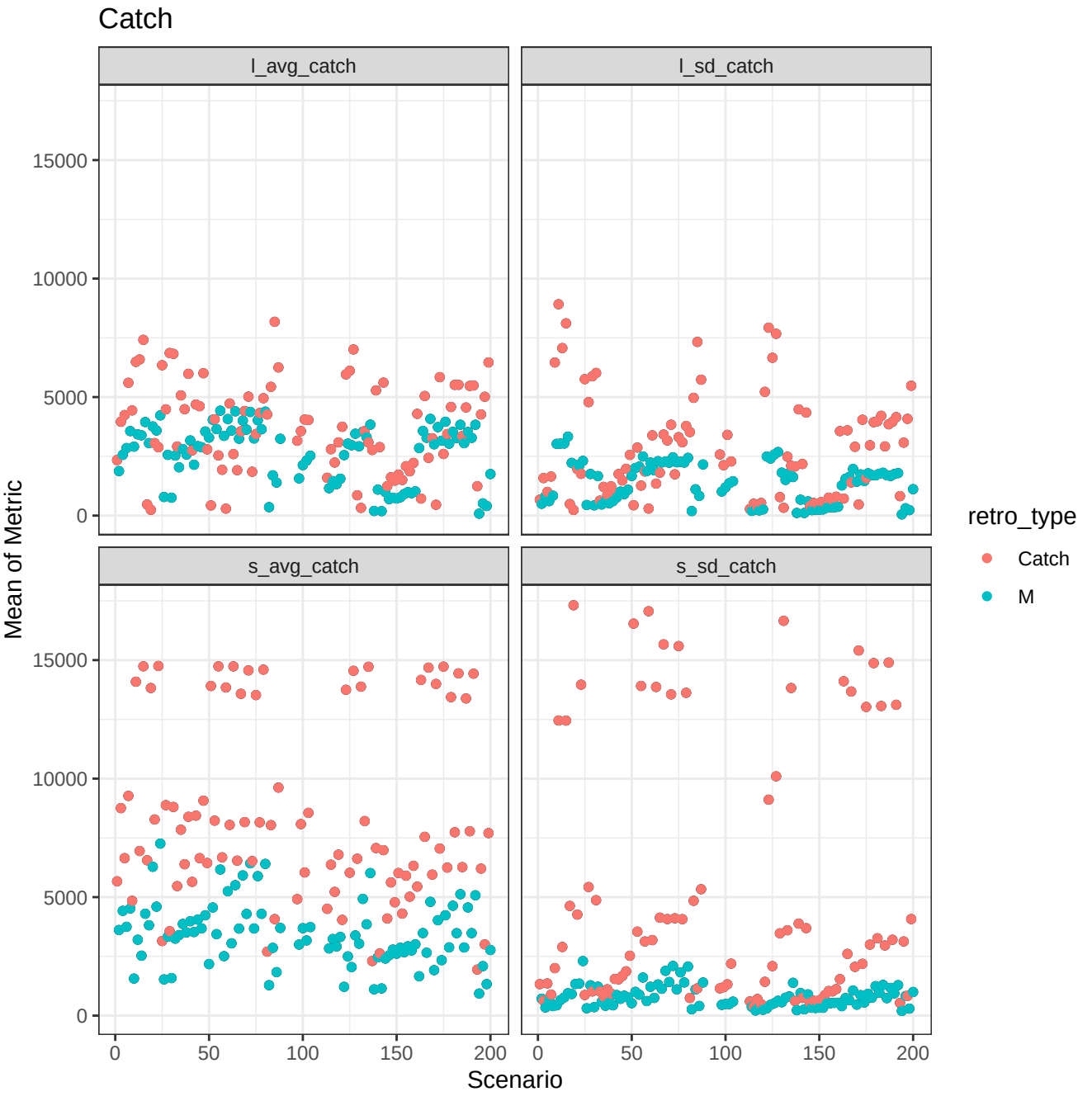

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

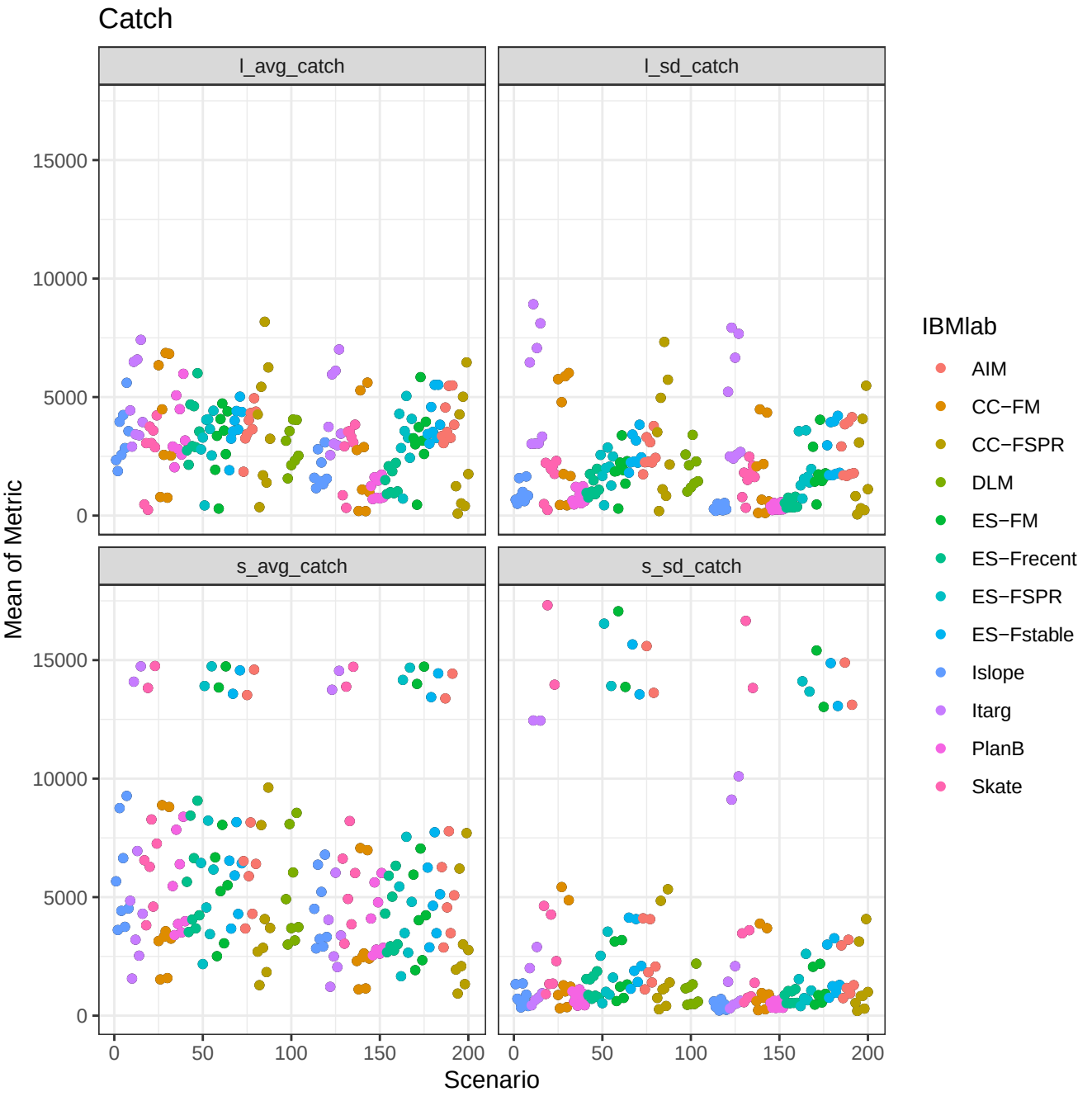

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

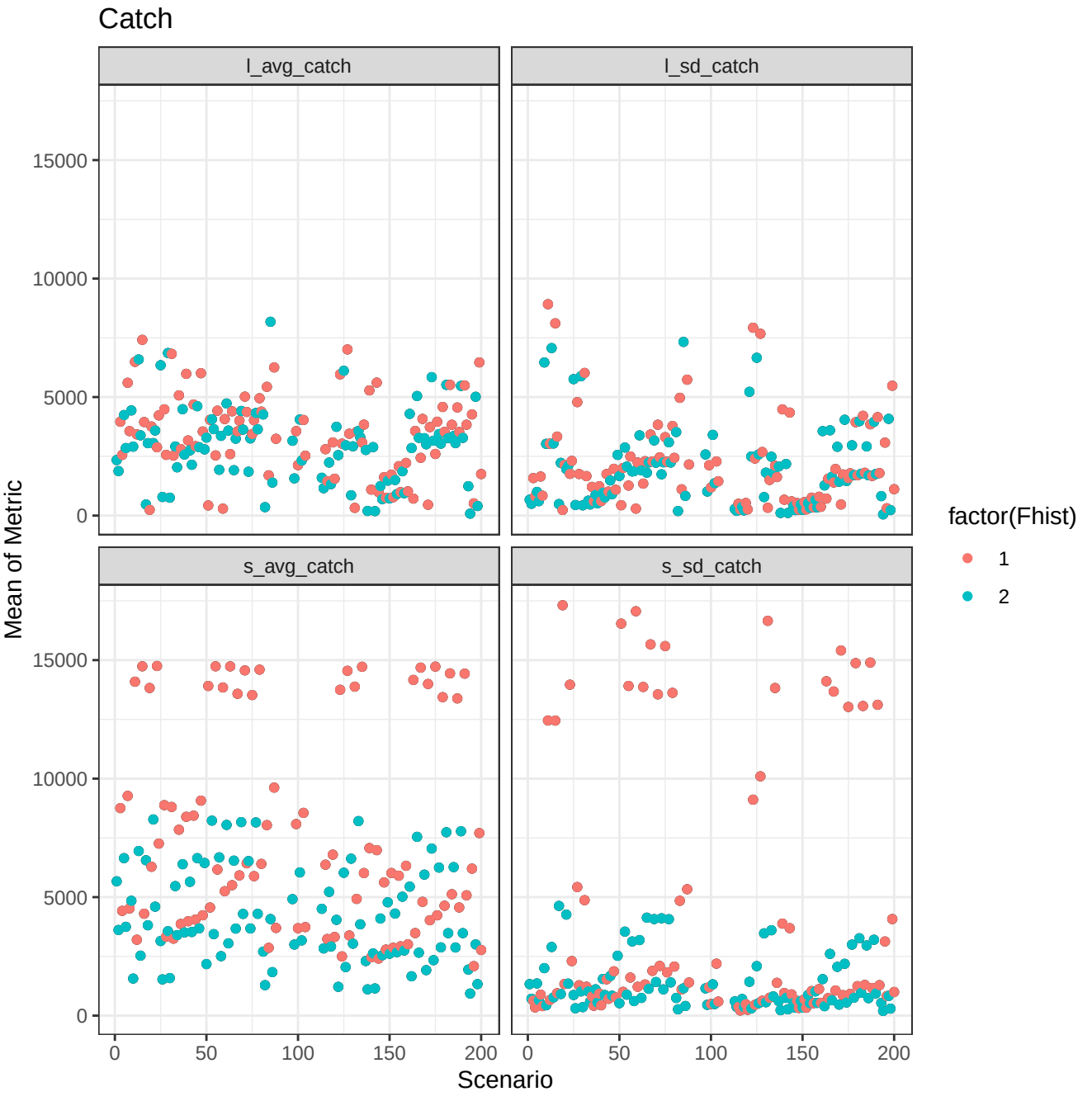

Catch
l_iav_catch
l_prop_g_msy_2_of_3
Mean of Metric
1.00
0.75
0.50
0.25
0.00
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
IBM

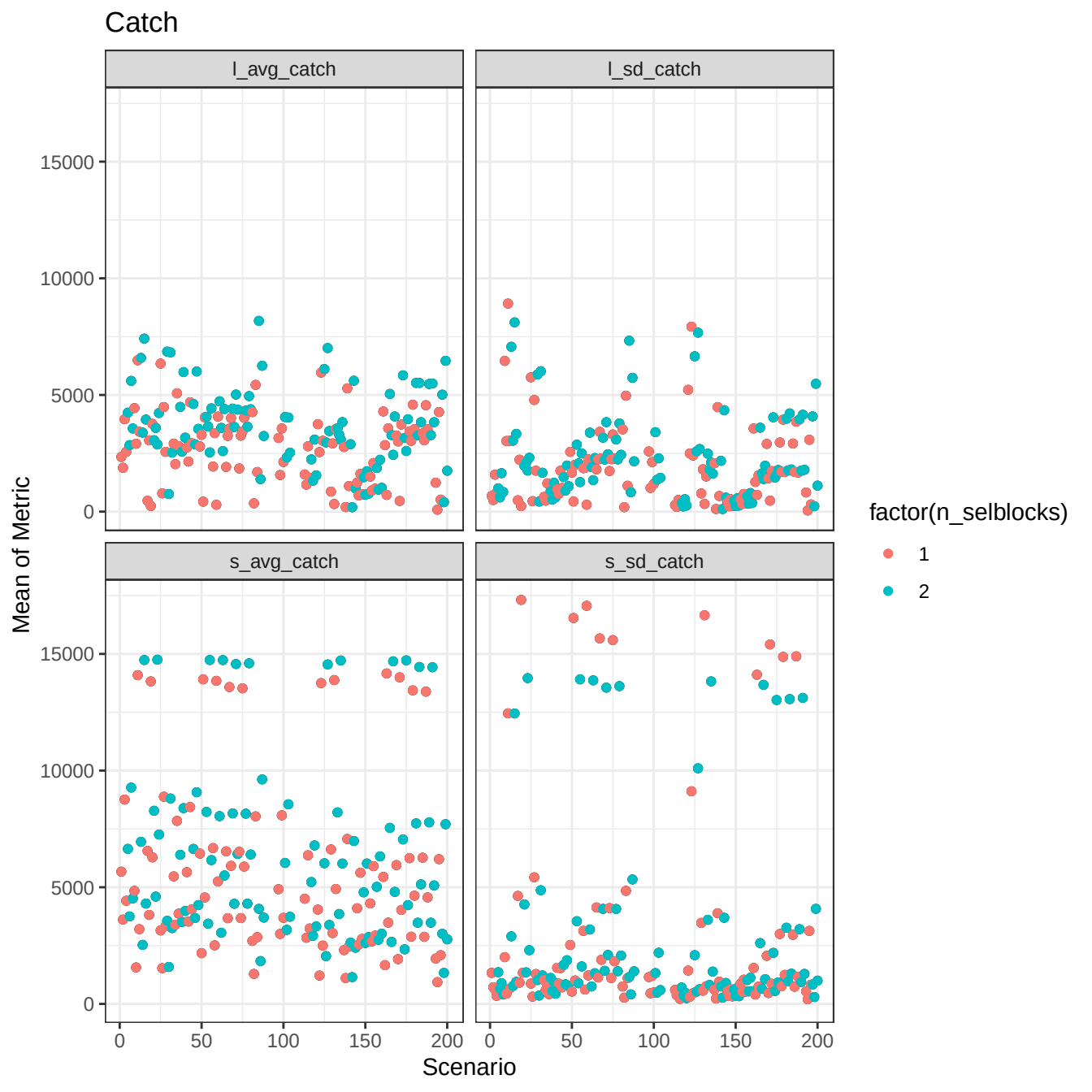

Catch
l_iav_catch
l_prop_g_msy_2_of_3
Mean of Metric
1.00
0.75
0.50
0.25
0.00
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Scenario

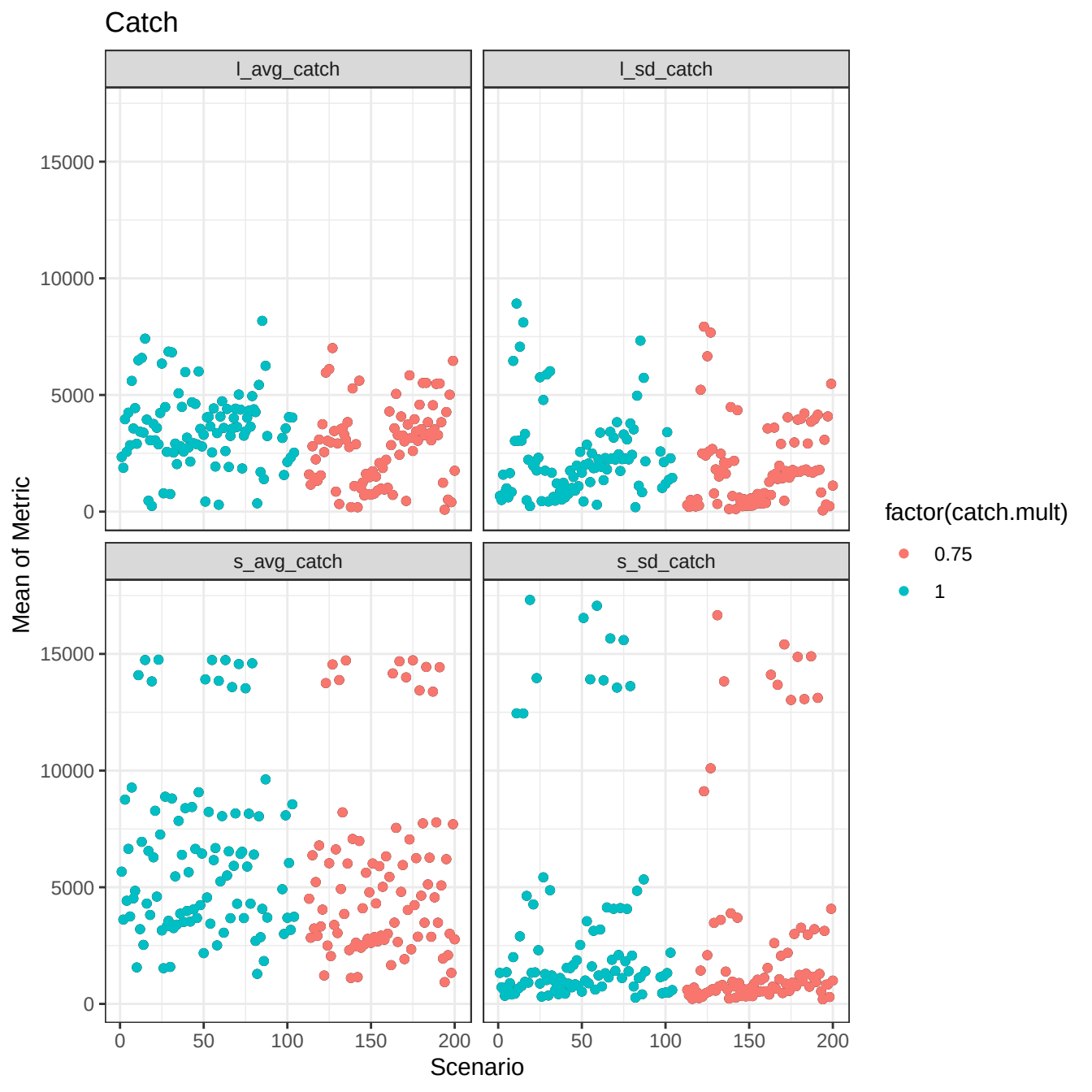

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
Scenario
0
5000
10000
15000
0
50
100
150
200

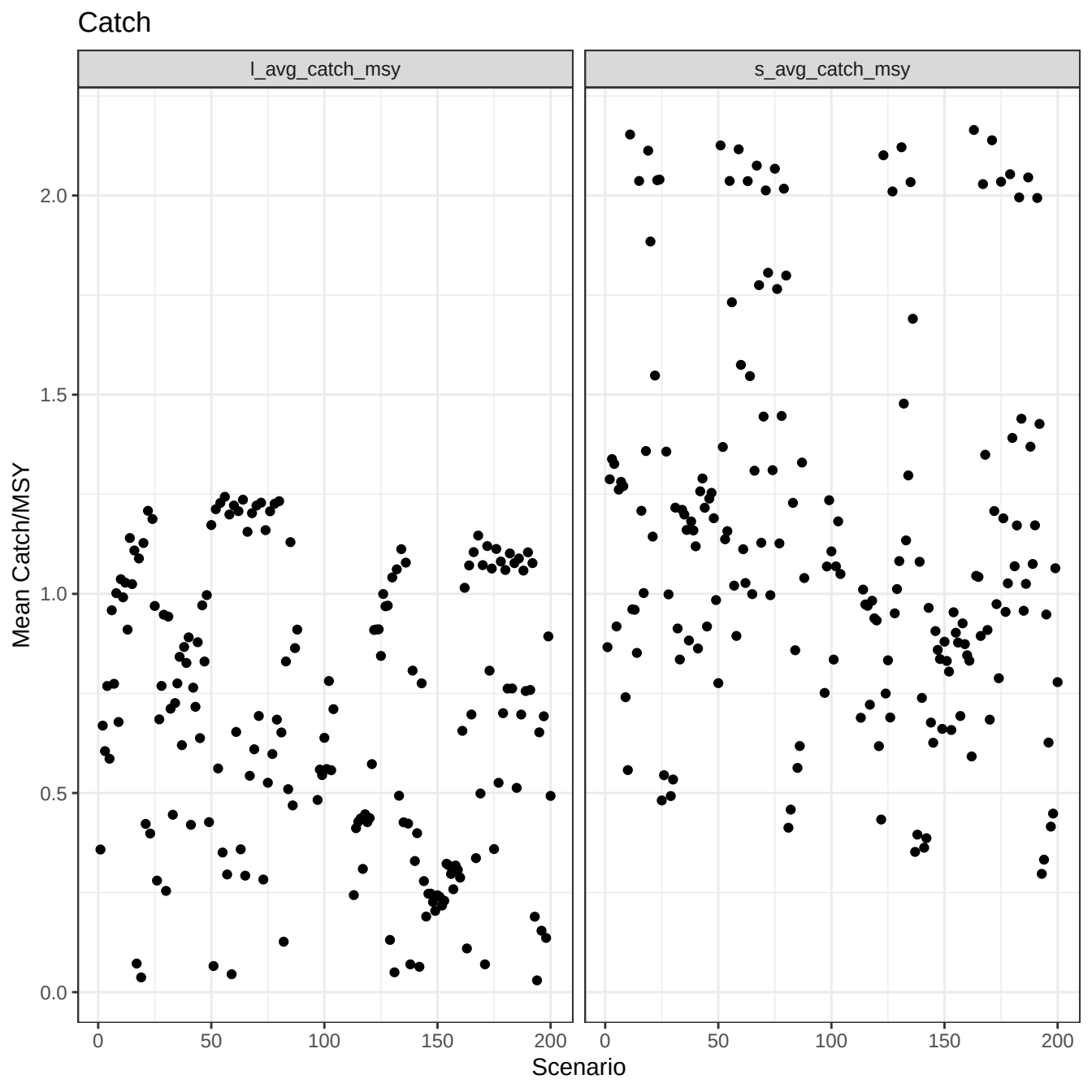

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
Scenario
retro_type
Catch
M
0
5000
10000
15000
0
50
100
150
200

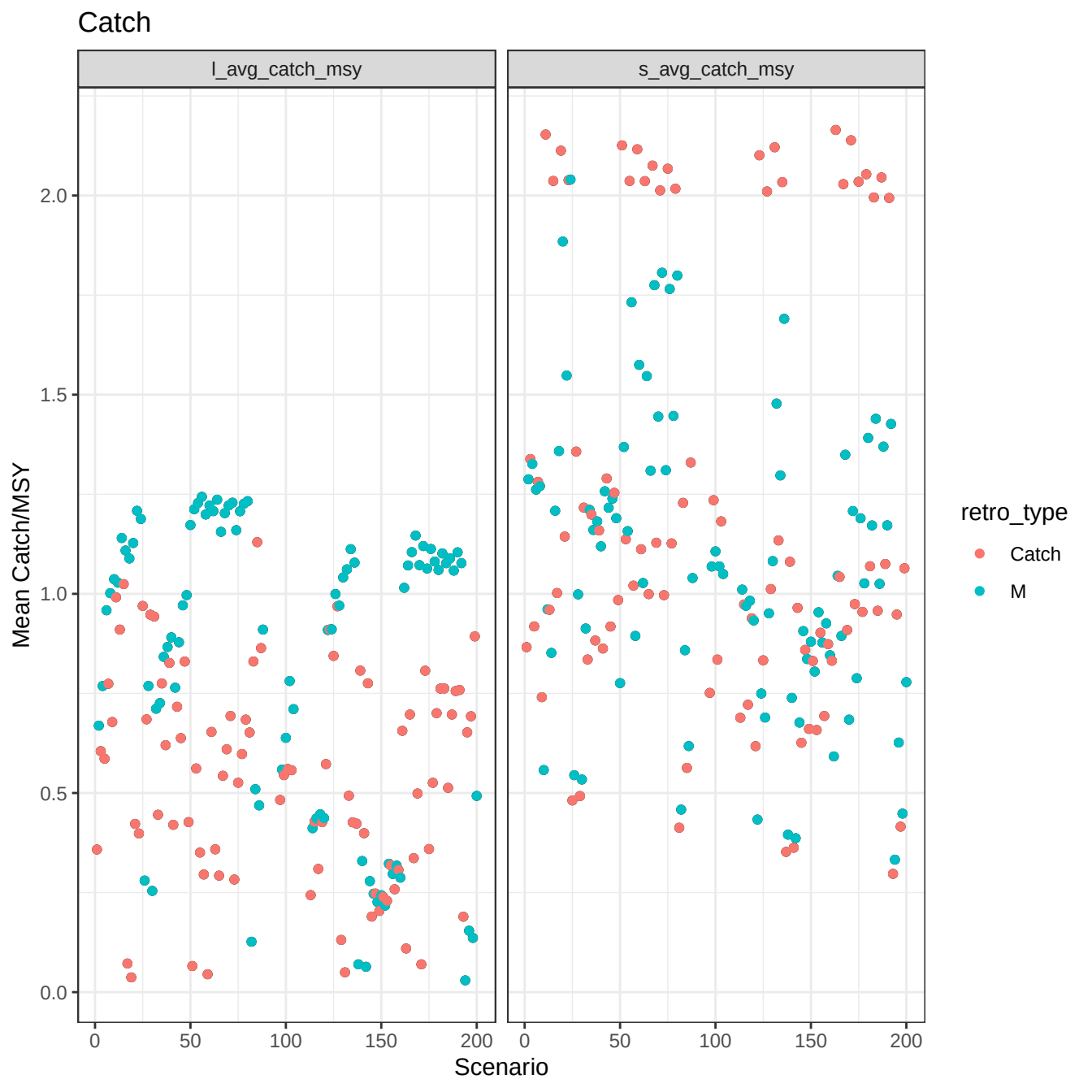

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
Scenario
0
5000
10000
15000
0
50
100
150
200
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

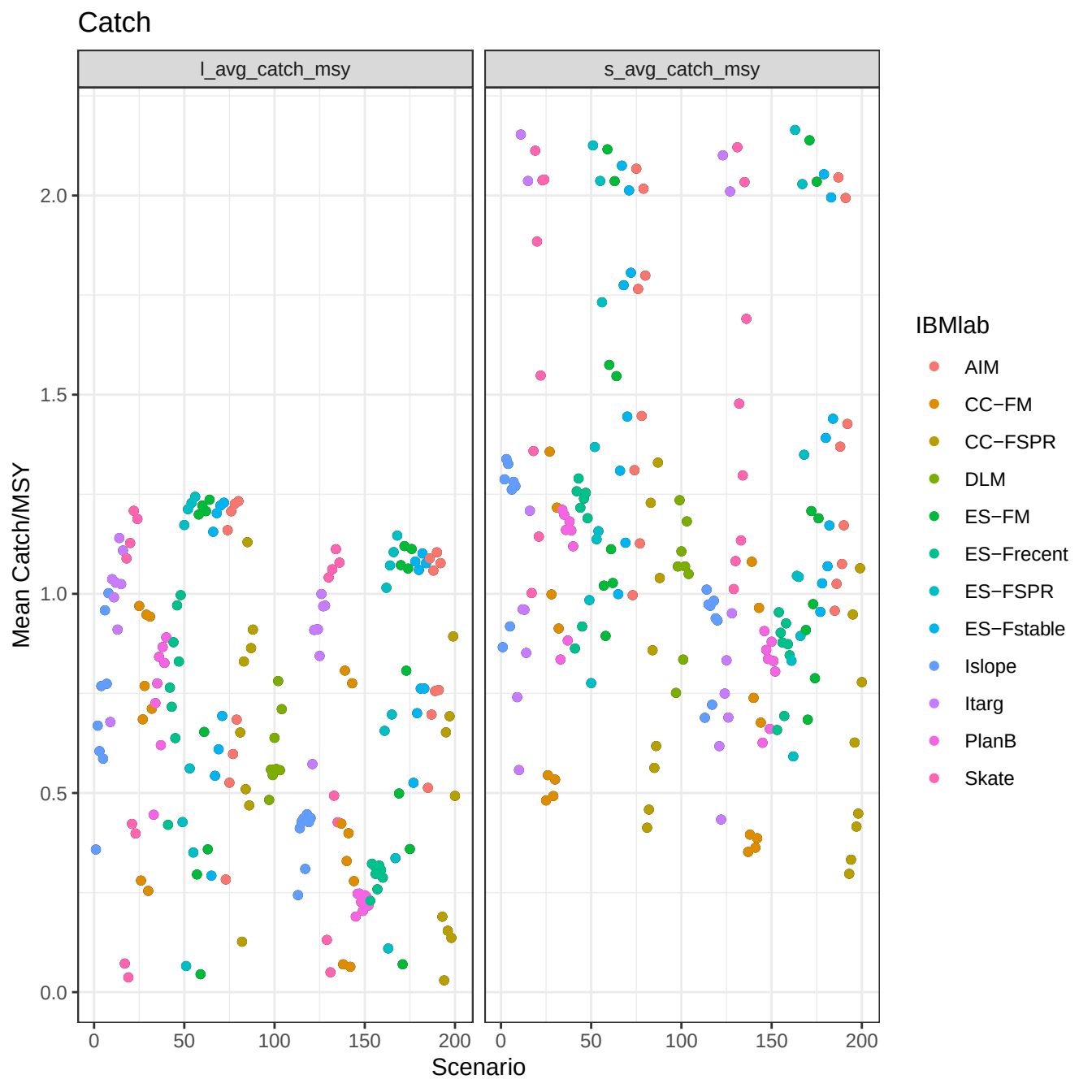

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
Scenario
factor(Fhist)
1
2
0
5000
10000
15000
0
50
100
150
200

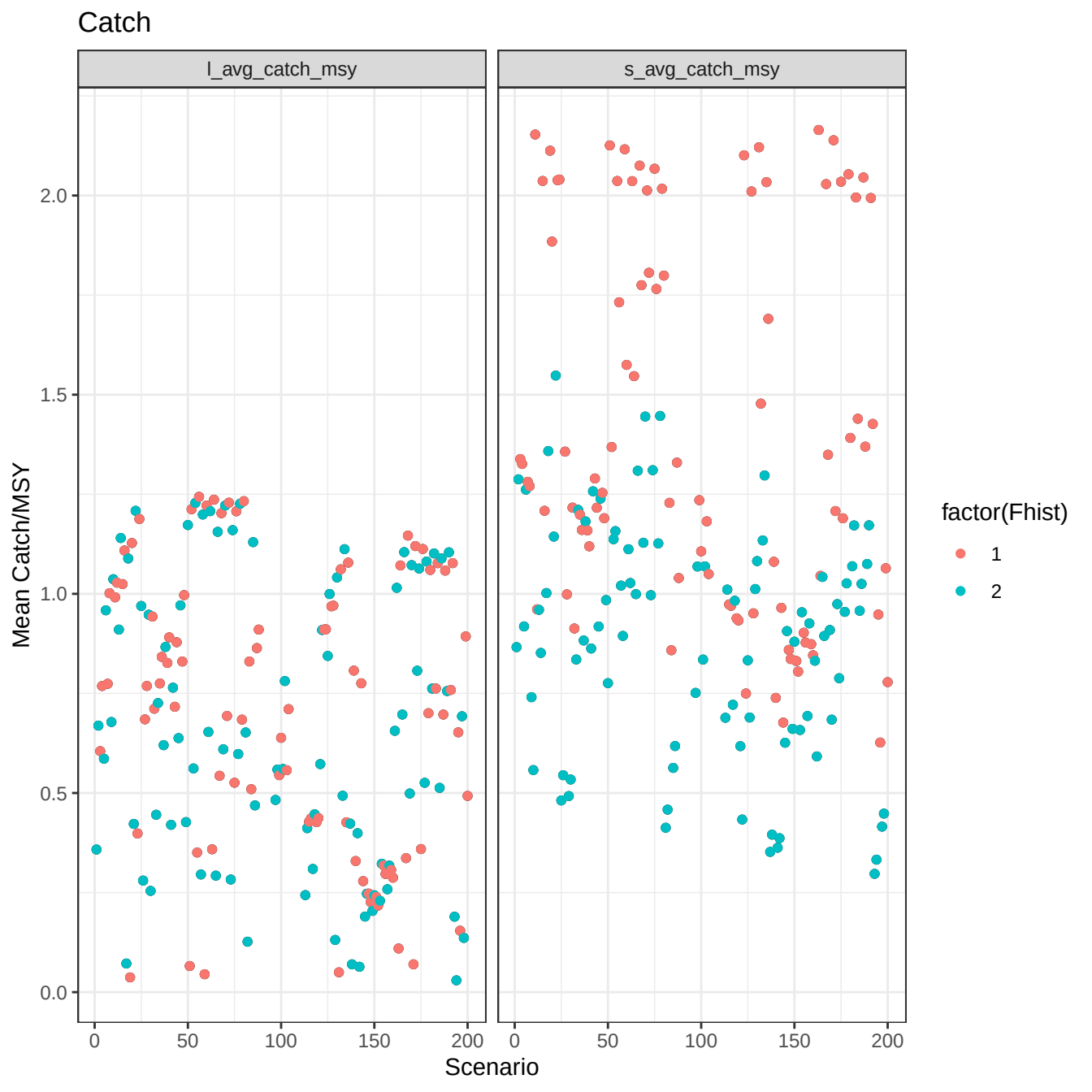

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
Scenario
factor(n_selblocks)
1
2
0
5000
10000
15000
0
50
100
150
200

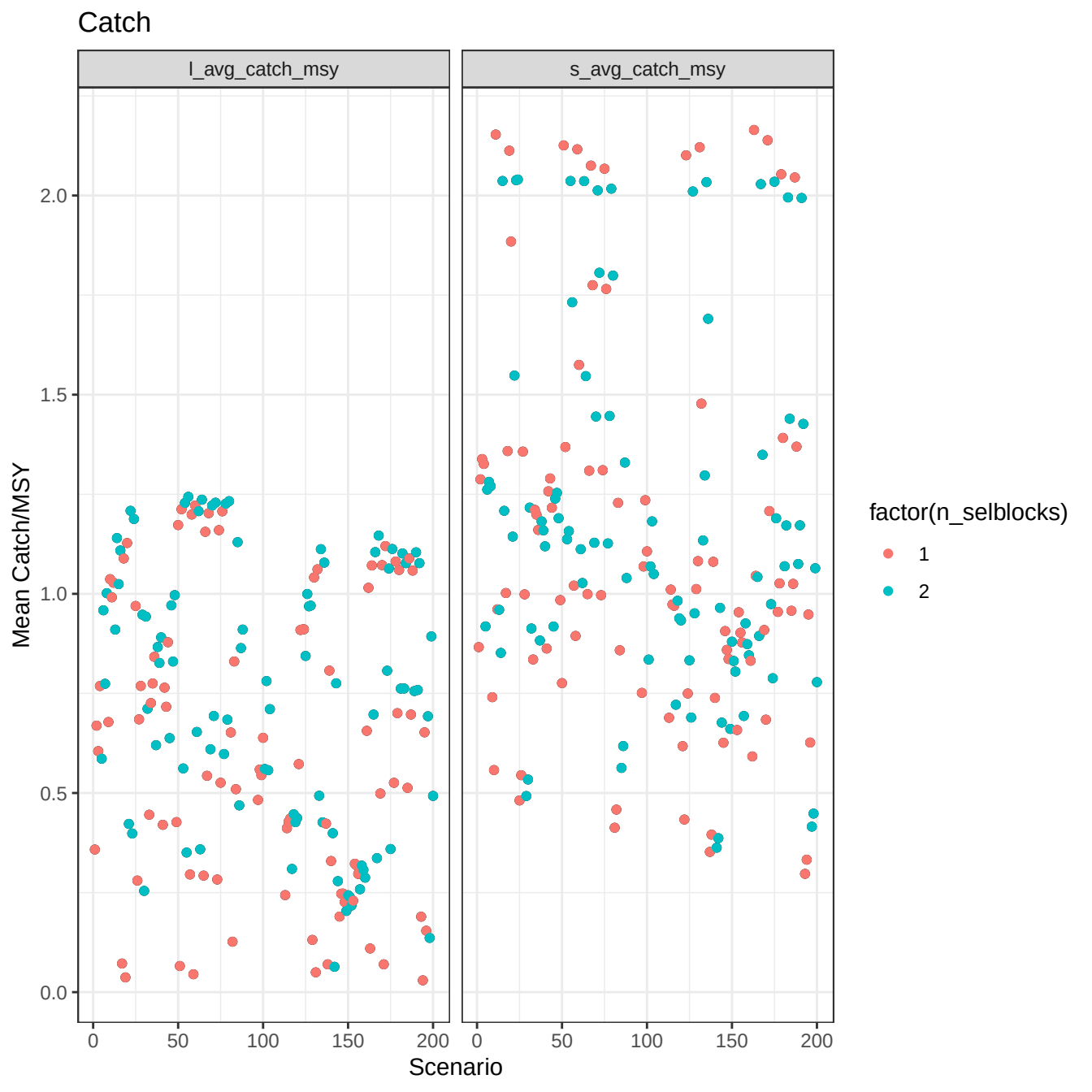

Catch
l_avg_catch
l_sd_catch
s_avg_catch
s_sd_catch
Mean of Metric
Scenario
0
5000
10000
15000
0
50
100
150
200
factor(catch.mult)
0.75
1

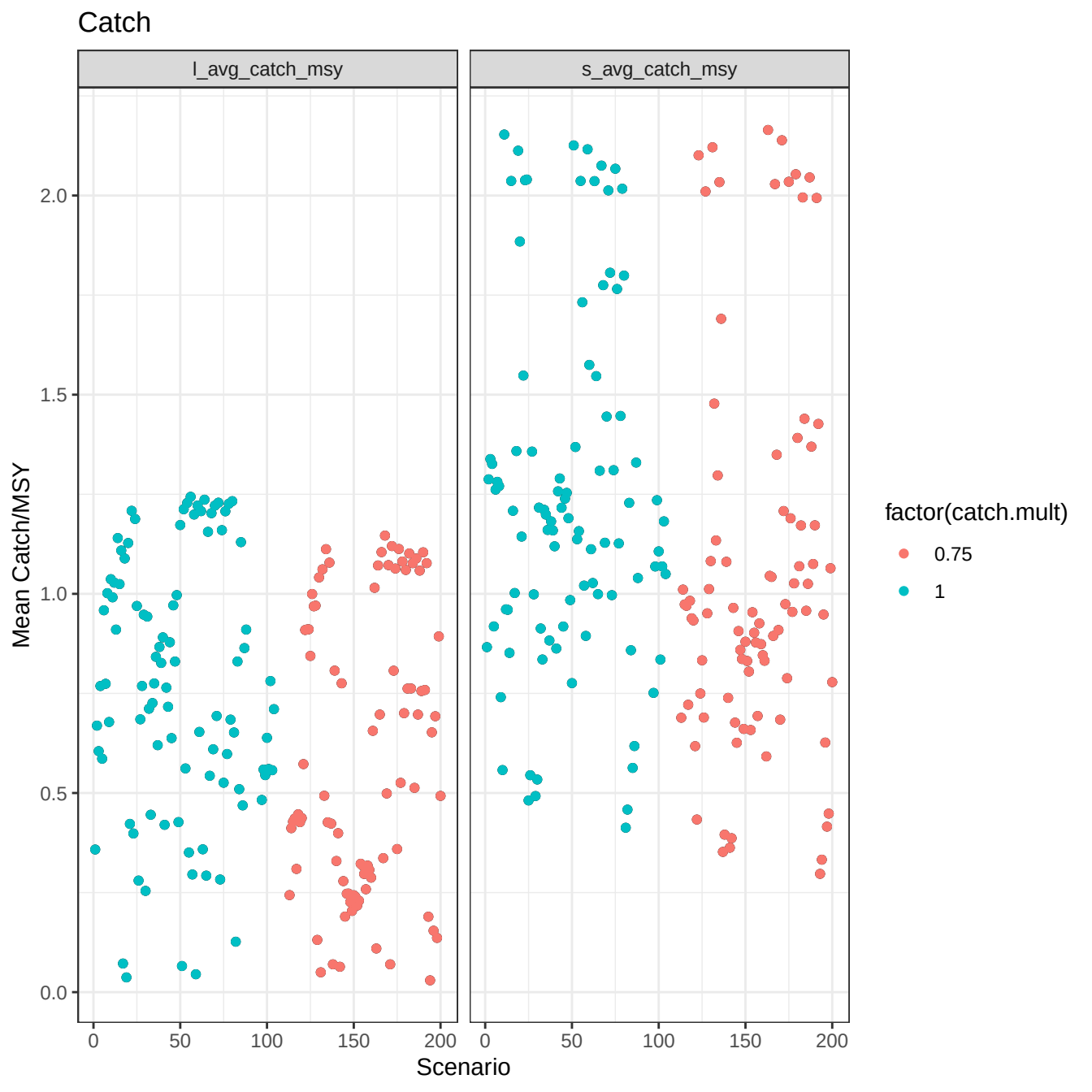

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
0
50
100
150
200
Scenario

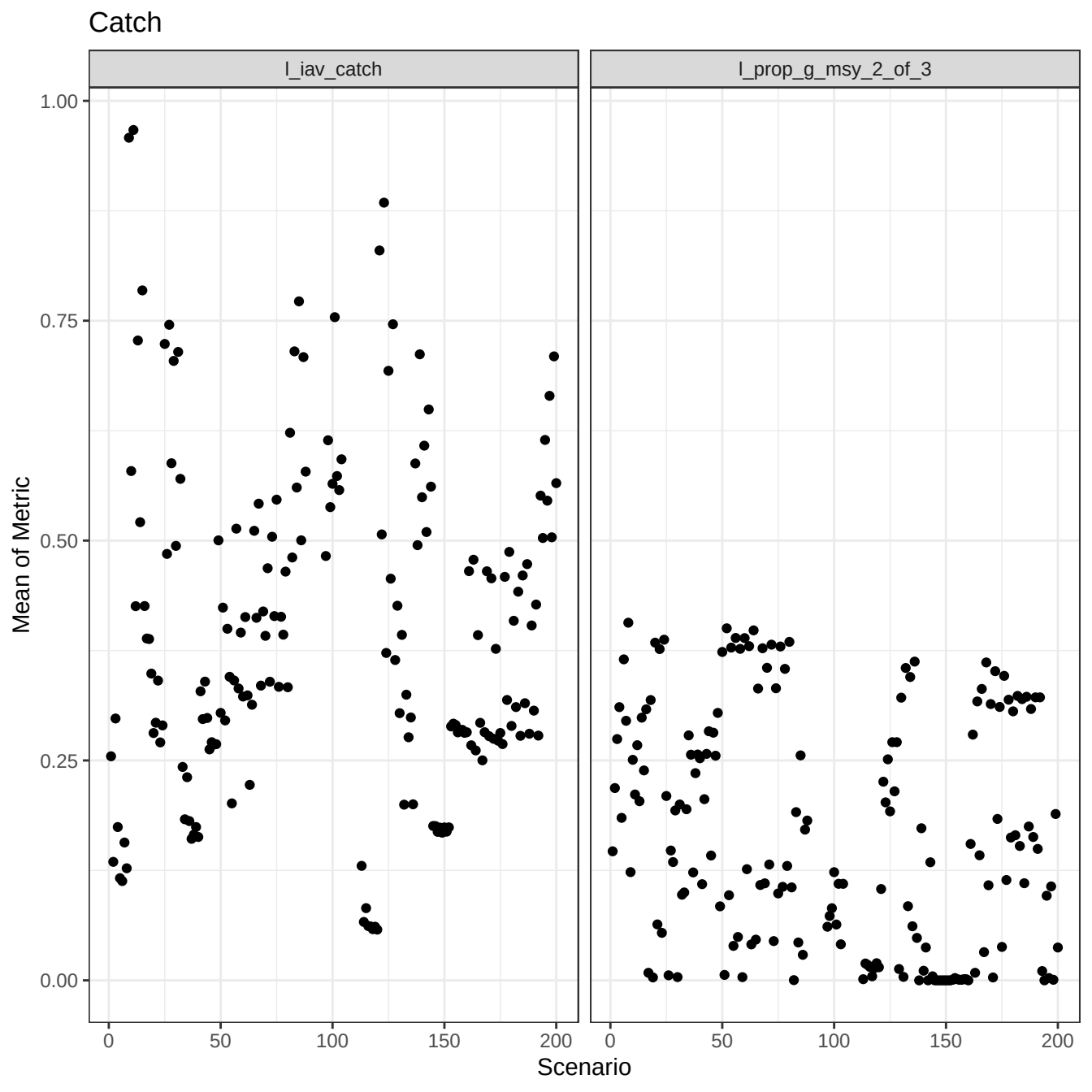

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
0
50
100
150
200
Scenario
retro_type
Catch
M

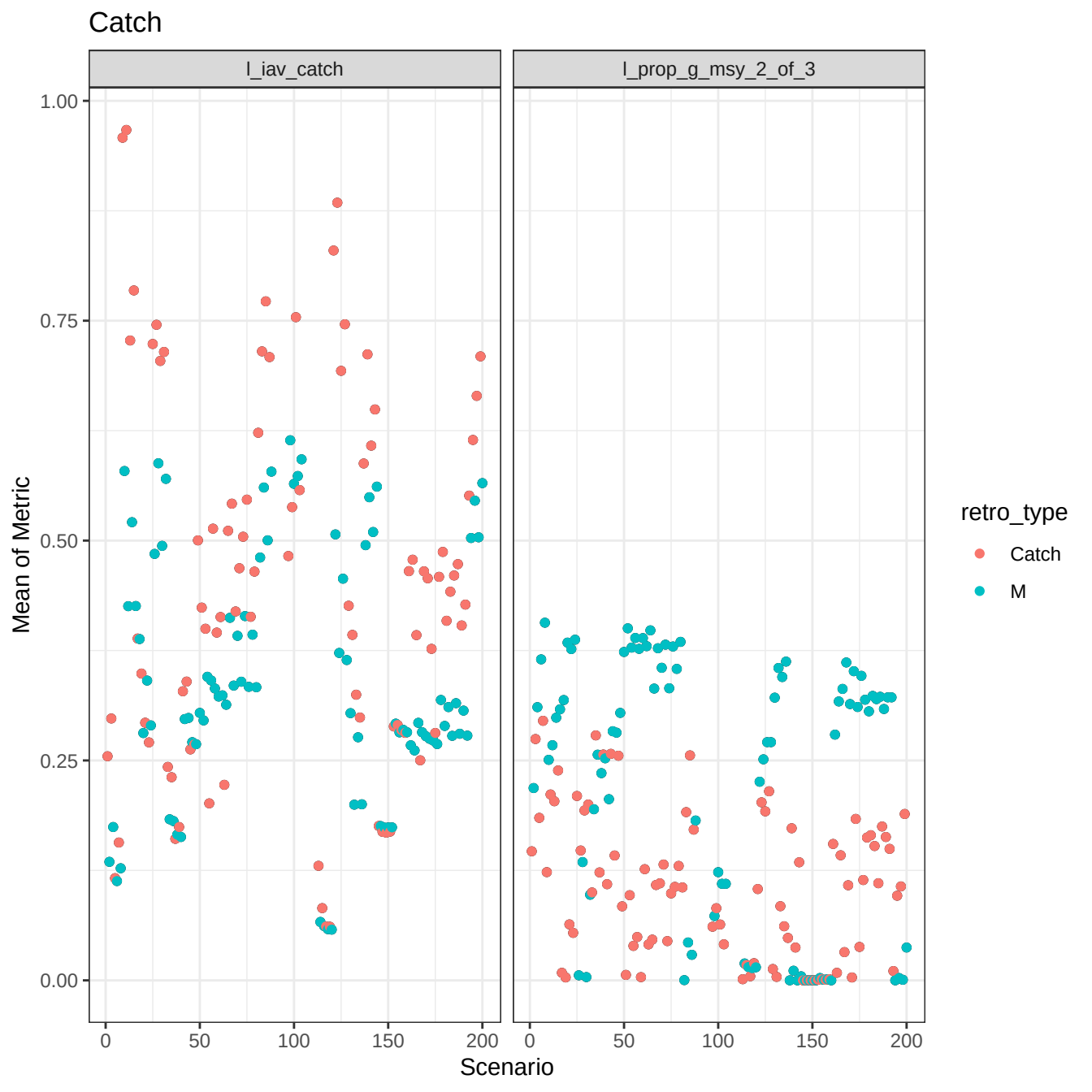

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
0
50
100
150
200
Scenario
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

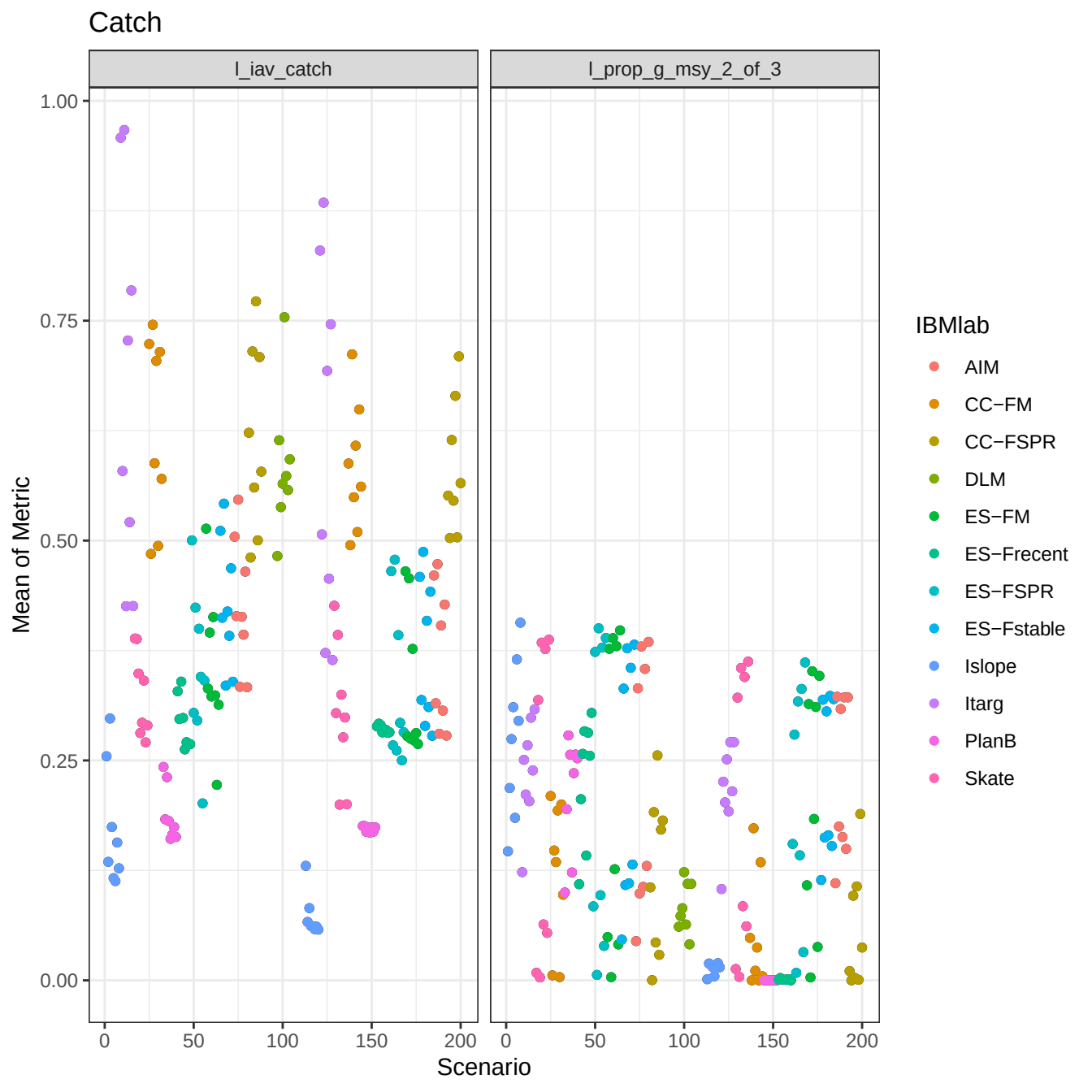

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
0
50
100
150
200
Scenario
factor(Fhist)
1
2

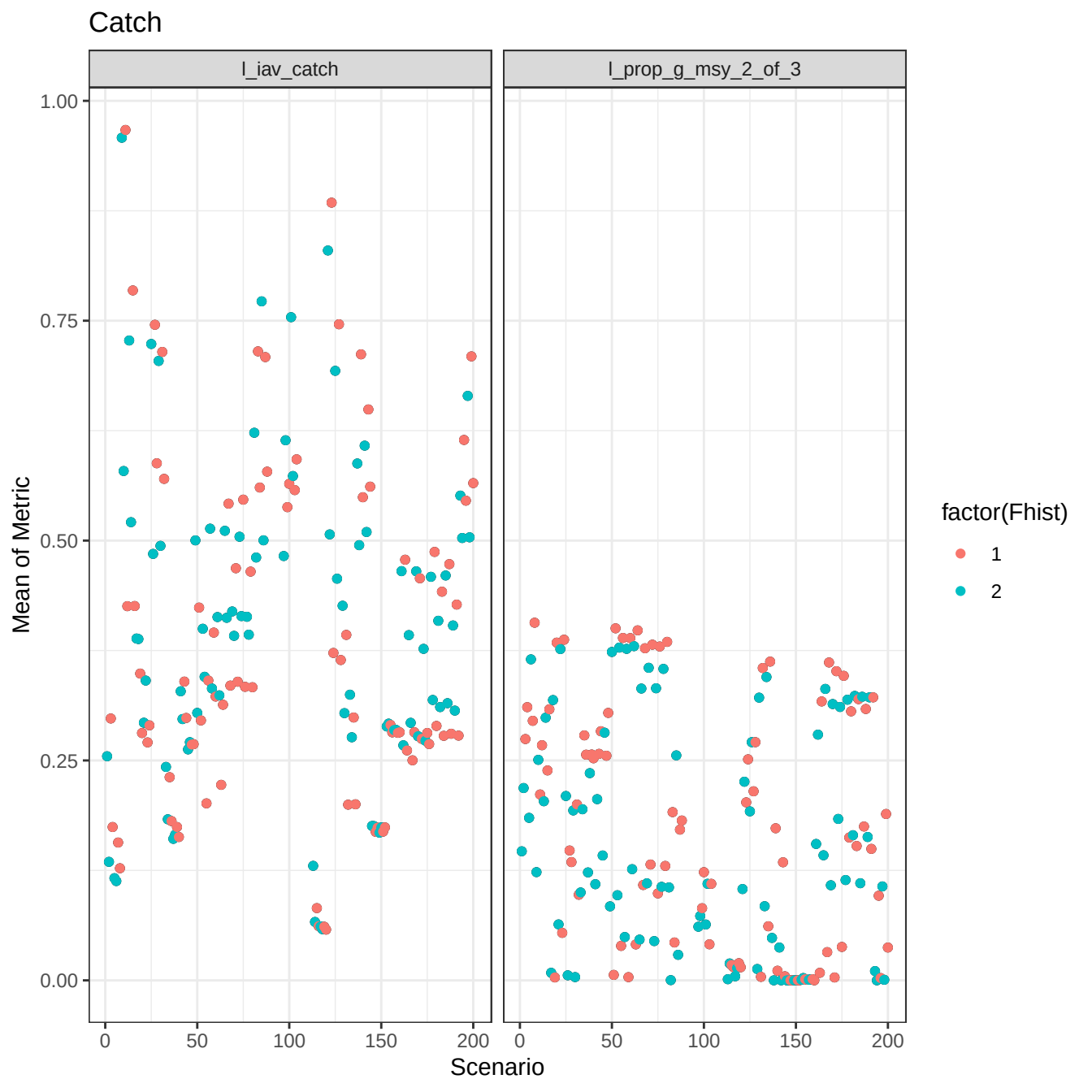

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
0
50
100
150
200
Scenario
factor(n_selblocks)
1
2

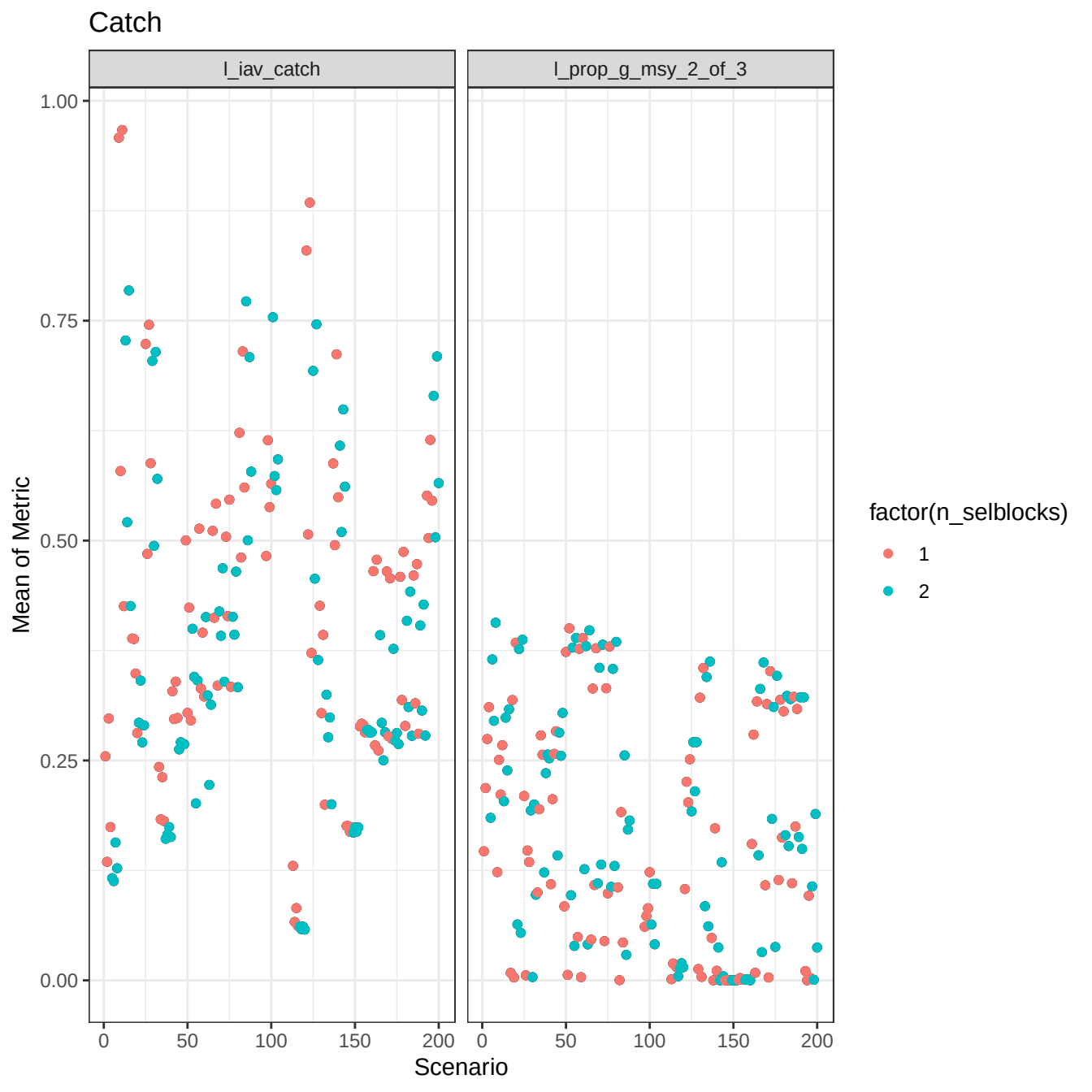

Catch
l_avg_catch_msy
s_avg_catch_msy
Mean Catch/MSY
0.0
0.5
1.0
1.5
2.0
0
50
100
150
200
Scenario
factor(catch.mult)
0.75
1

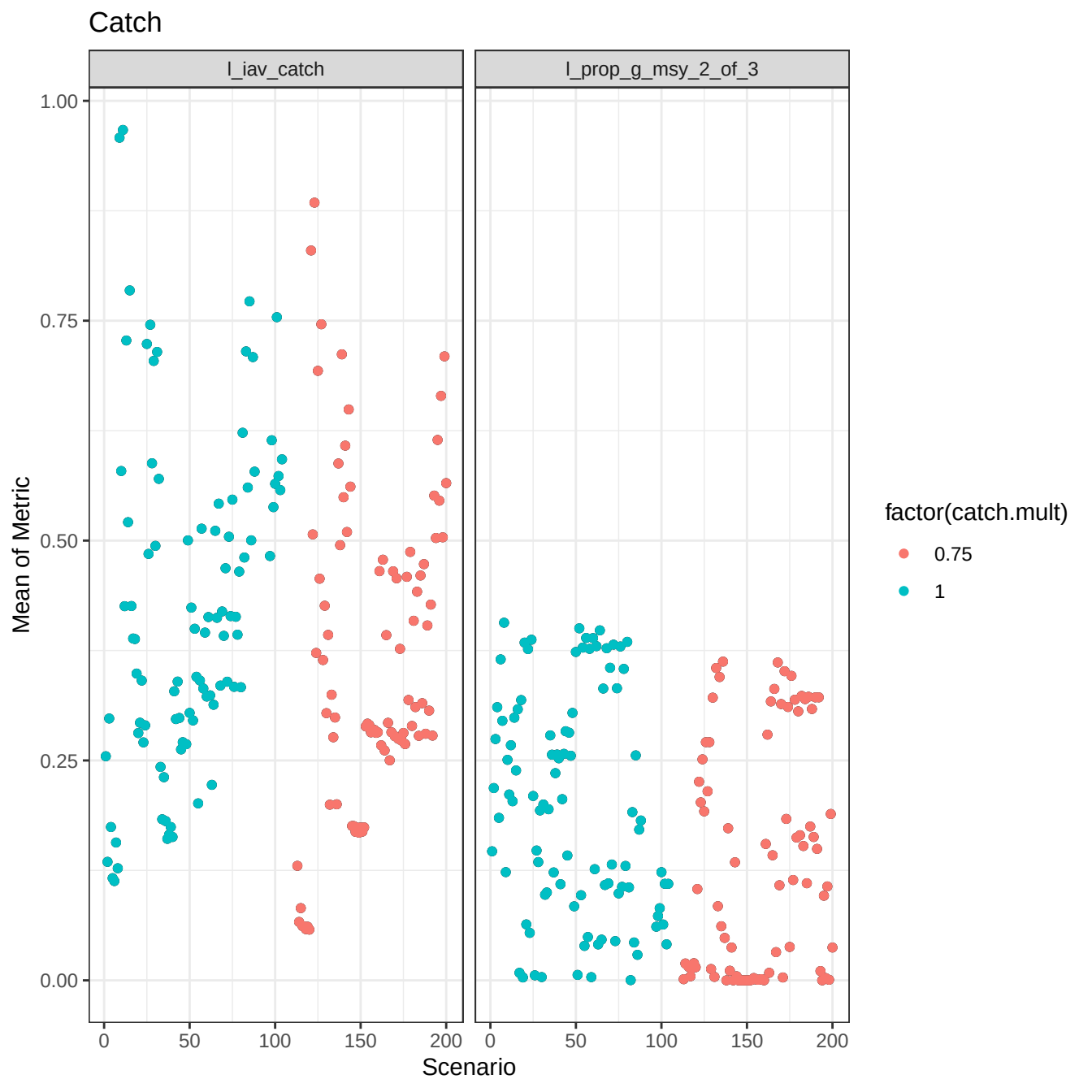

Catch
l_iav_catch
l_prop_g_msy_2_of_3
Mean of Metric
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario

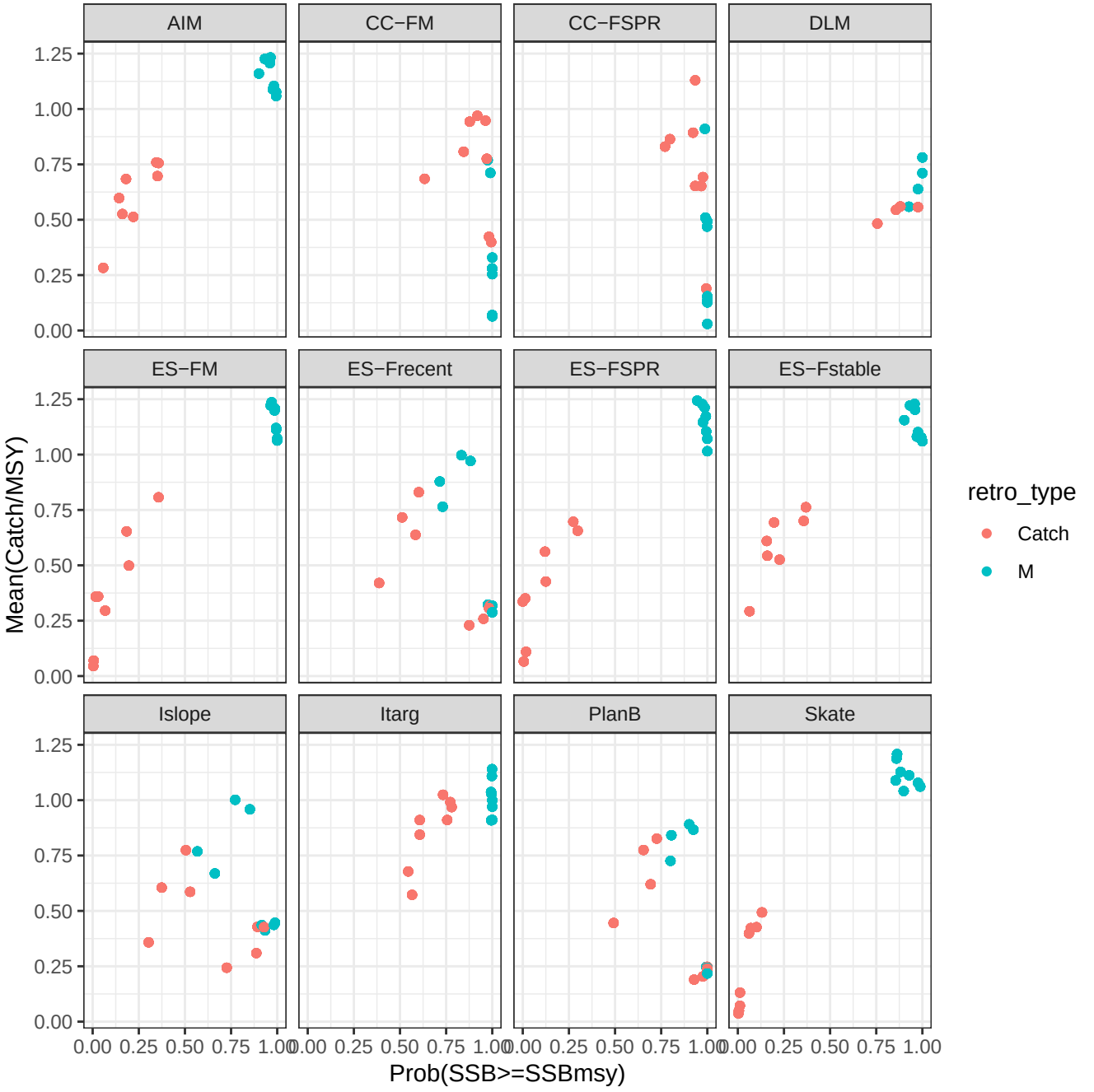

Catch
l_iav_catch
l_prop_g_msy_2_of_3
1.00
0.75
0.50
0.25
0.00
Mean of Metric
0
50
100
150
200
Scenario
retro_type
Catch
M

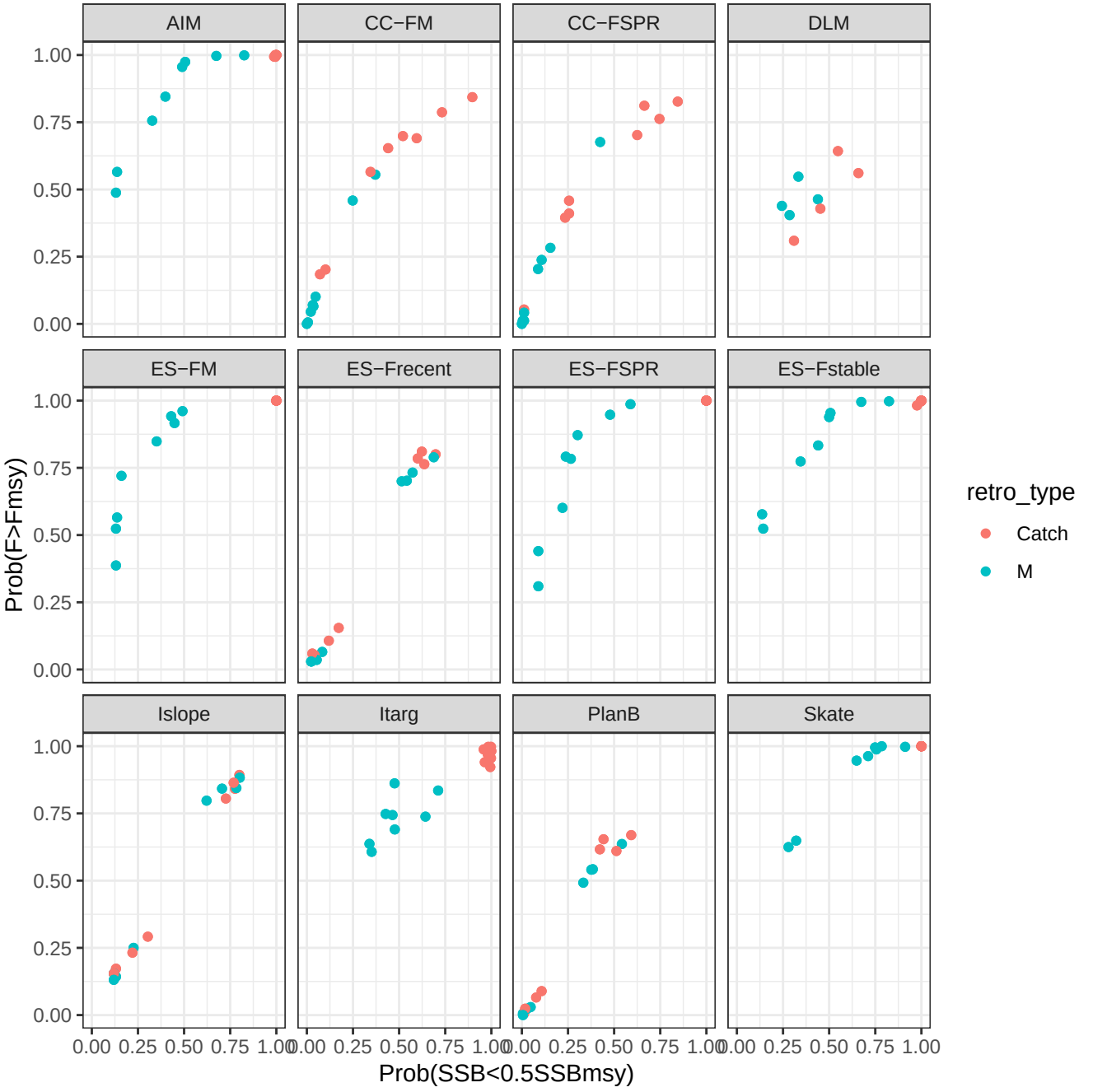

Catch
l_iav_catch
l_prop_g_msy_2_of_3
Mean of Metric
1.00
0.75
0.50
0.25
0.00
0
50
100
150
200
Scenario
IBMlab
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate

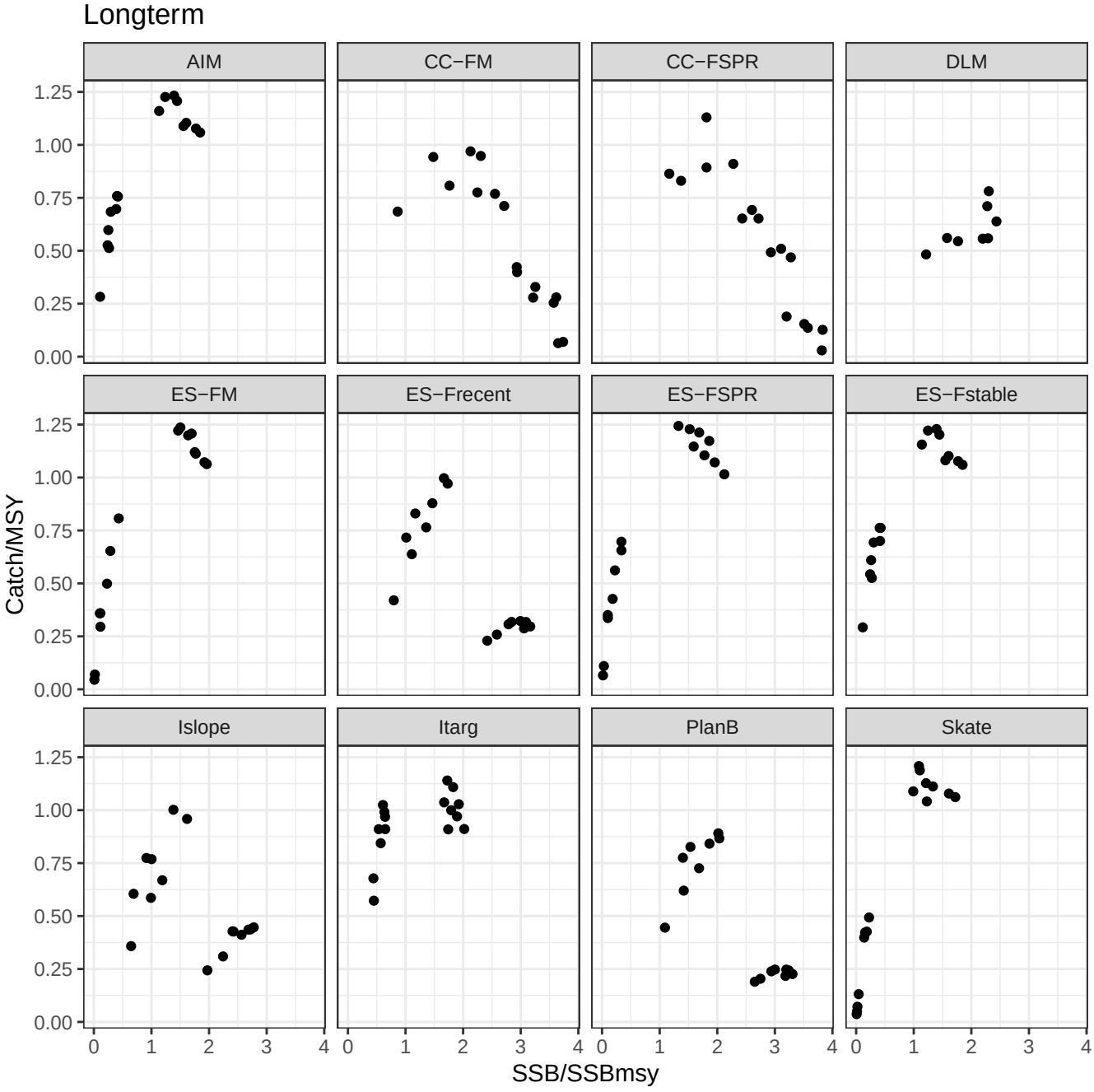

Catch
l_iav_catch
l_prop_g_msy_2_of_3
1.00
0.75
0.50
0.25
0.00
Mean of Metric
0
50
100
150
200
Scenario
factor(Fhist)
1
2

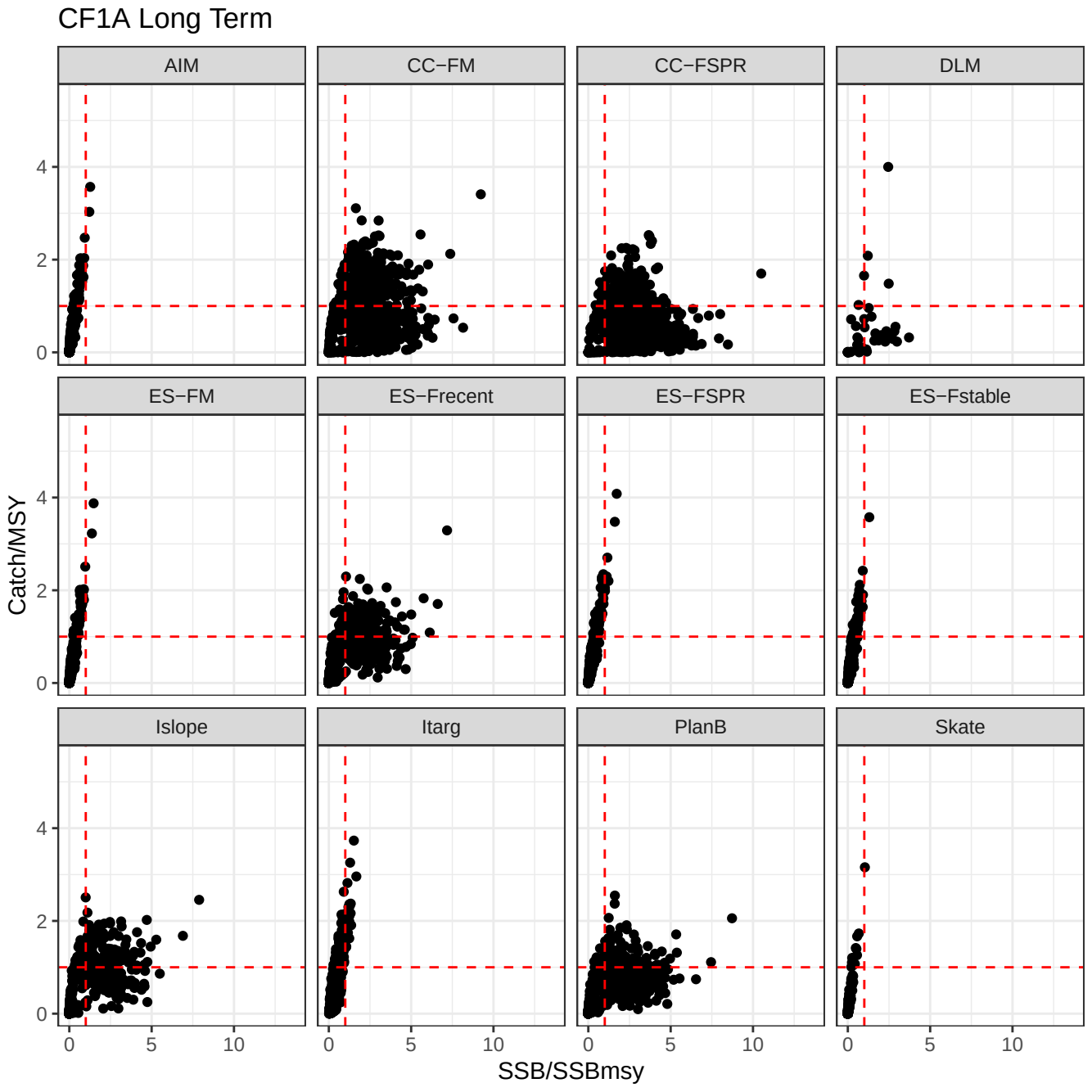

Catch
l_iav_catch
l_prop_g_msy_2_of_3
1.00
0.75
0.50
0.25
0.00
Mean of Metric
0
50
100
150
200
Scenario
factor(n_selblocks)
1
2

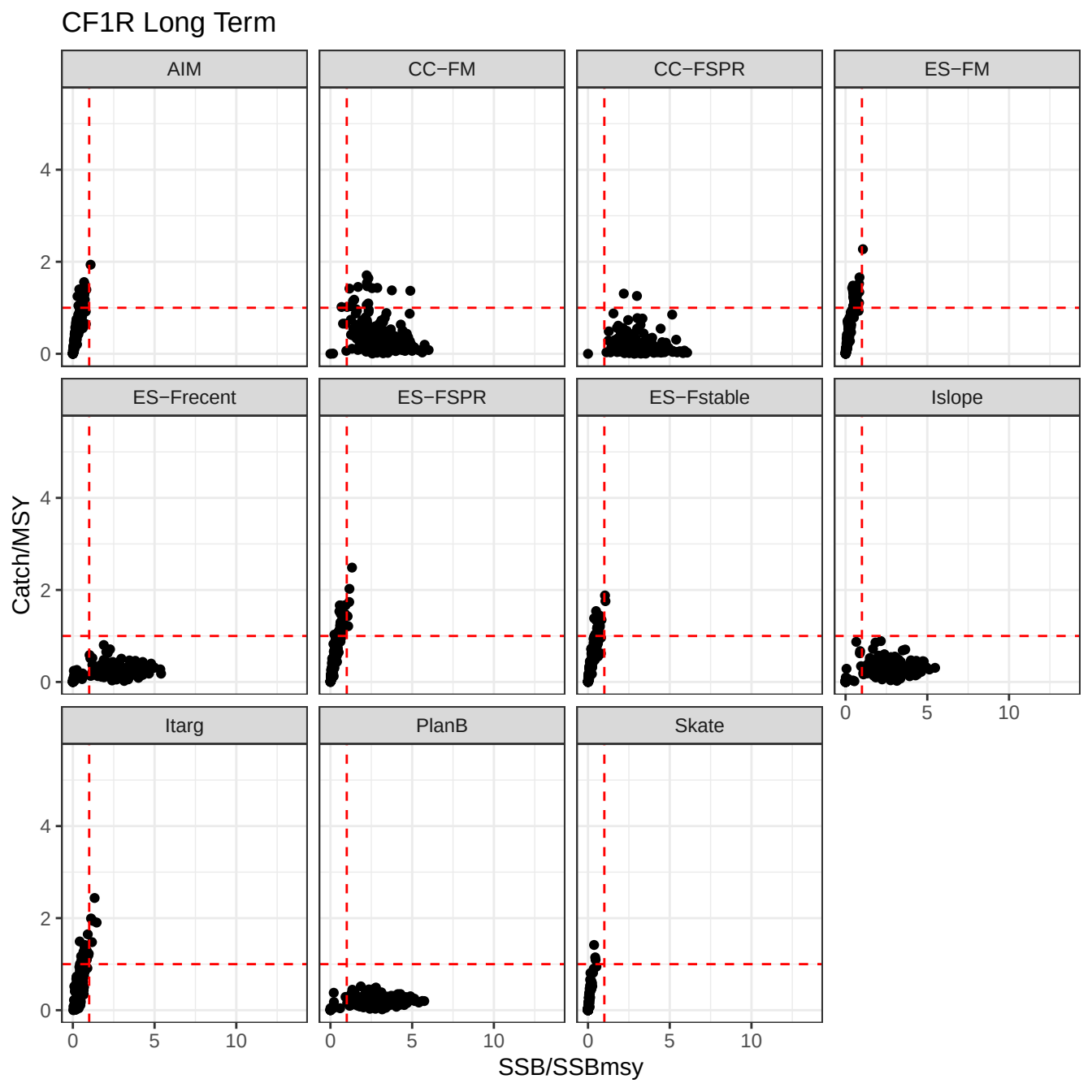

Catch
l_iav_catch
l_prop_g_msy_2_of_3
1.00
0.75
0.50
0.25
0.00
Mean of Metric
0
50
100
150
200
Scenario
factor(catch.mult)
0.75
1

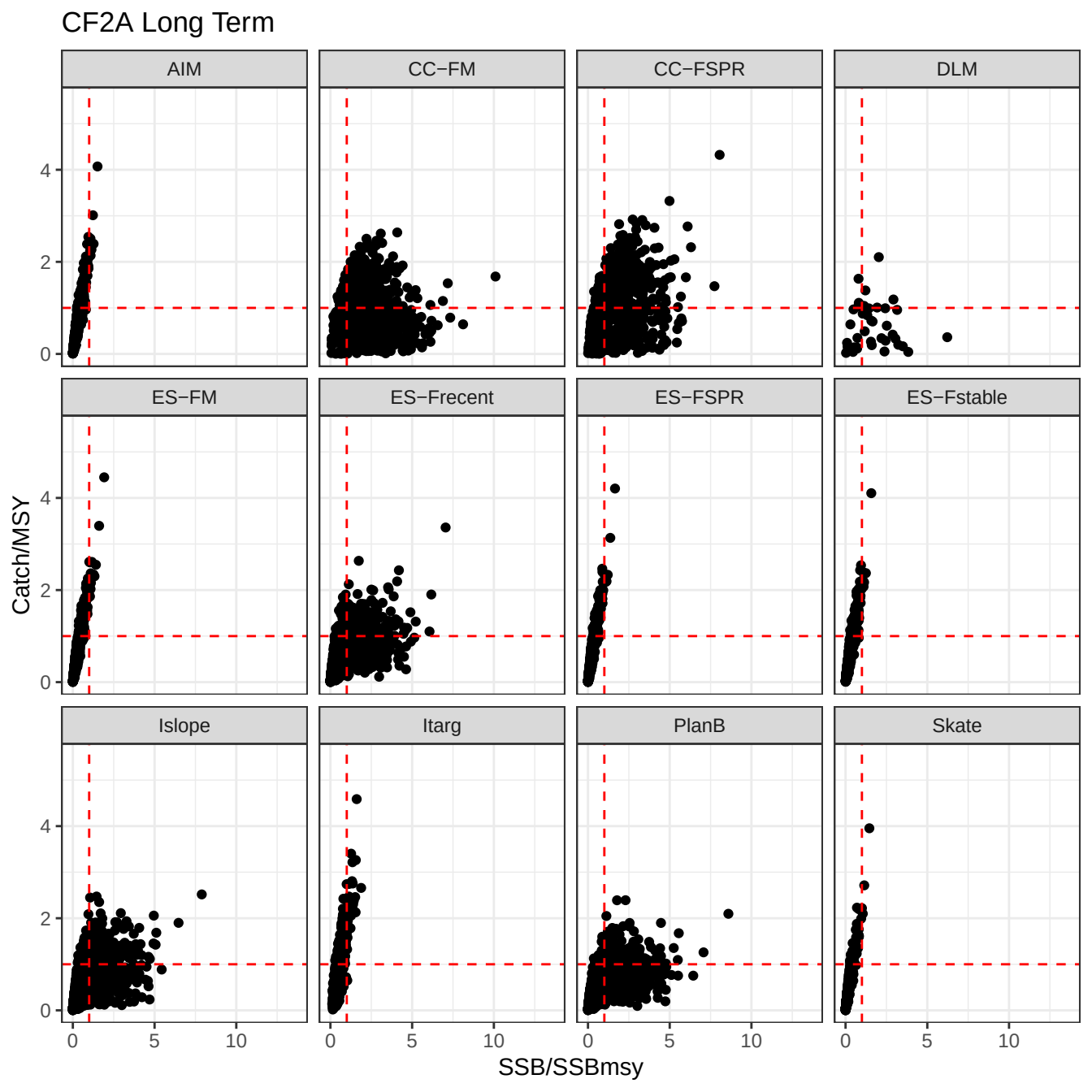

AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Mean(Catch/MSY)
Prob(SSB>=SSBmsy)
0.00
0.25
0.50
0.75
1.00
1.25
retro_type
Catch
M

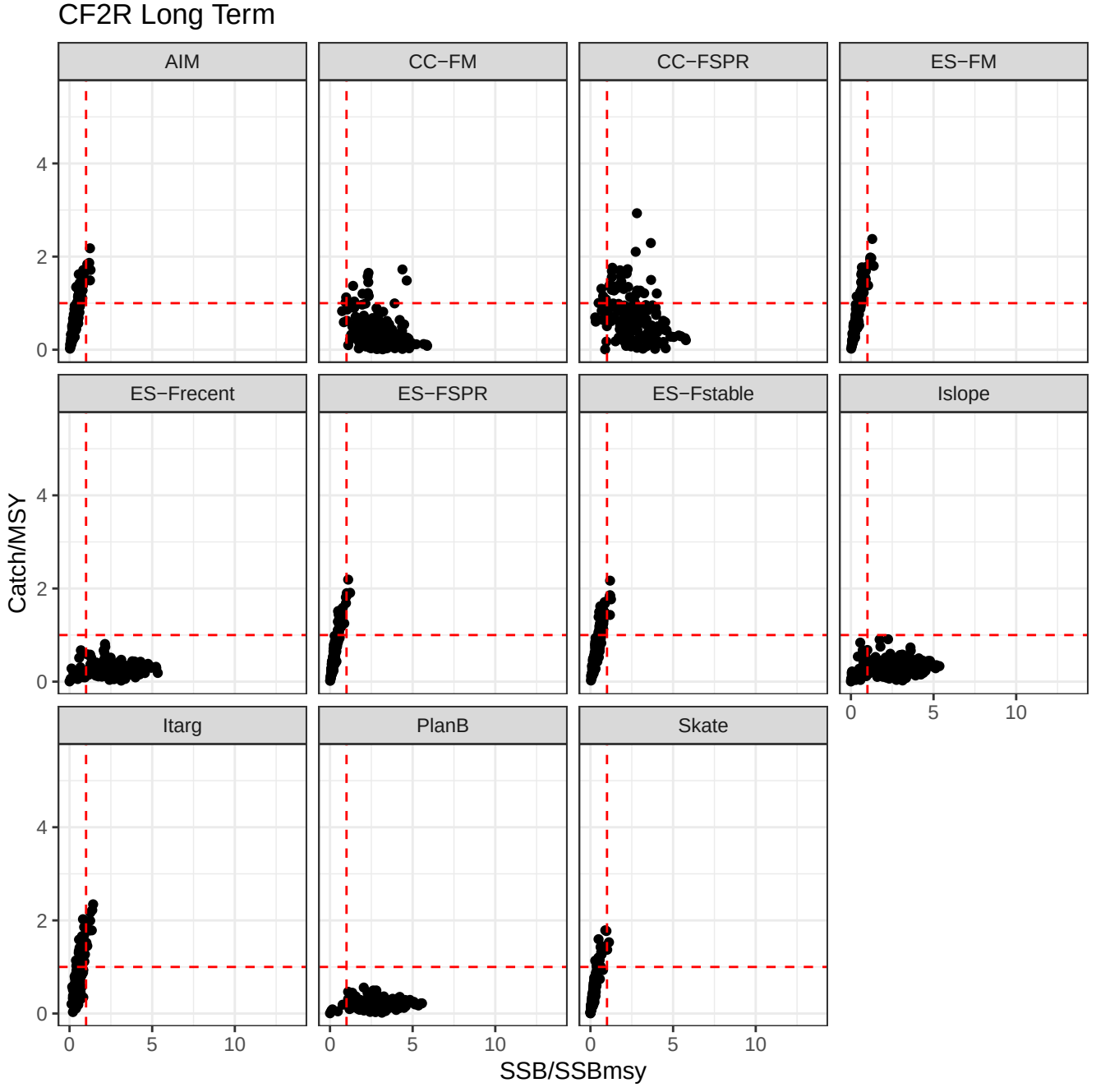

AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Prob(F>Fmsy)
Prob(SSB<0.5SSBmsy)
0.00
0.25
0.50
0.75
1.00
retro_type
Catch
M

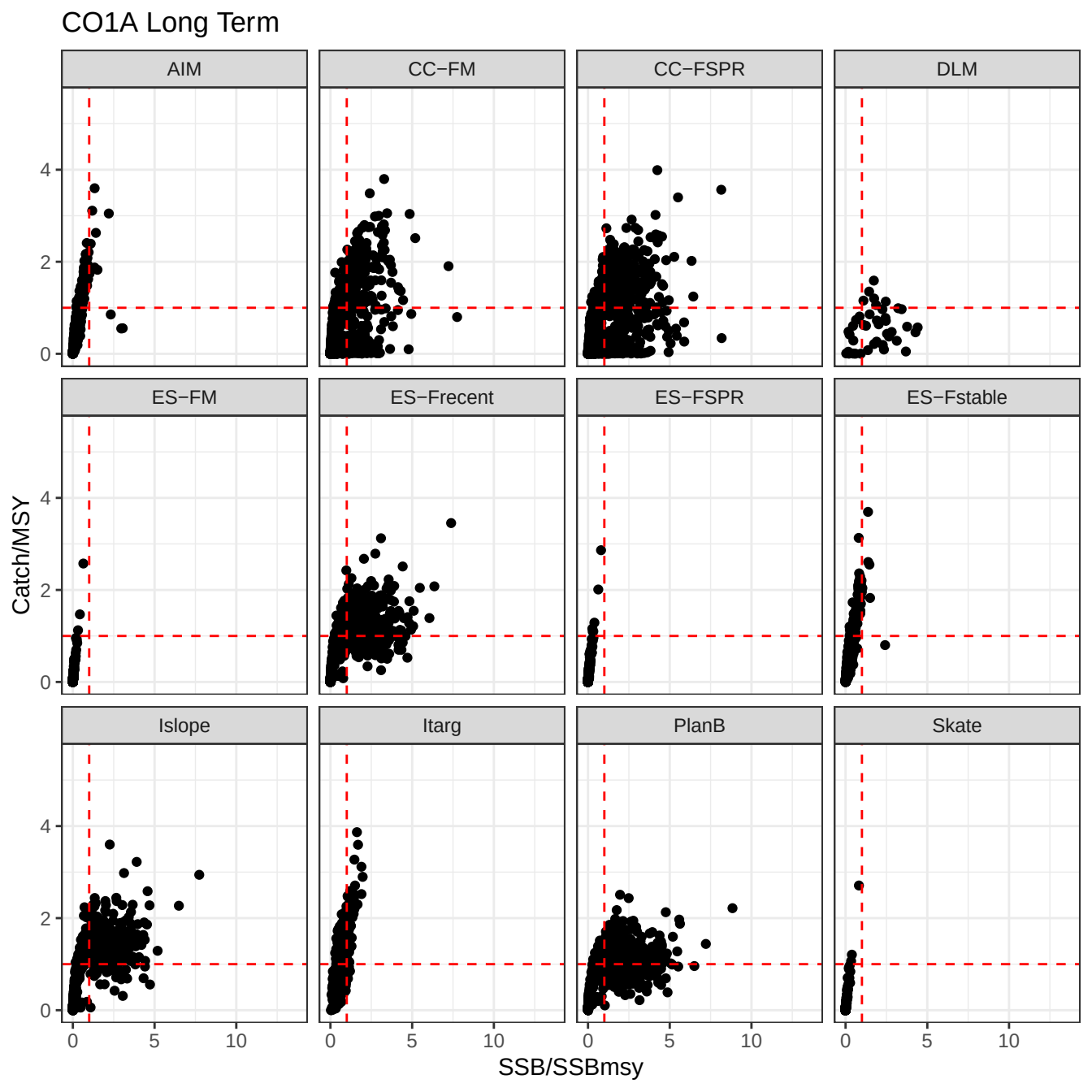

Longterm
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0.00
0.25
0.50
0.75
1.00
1.25
0
1
2
3
4

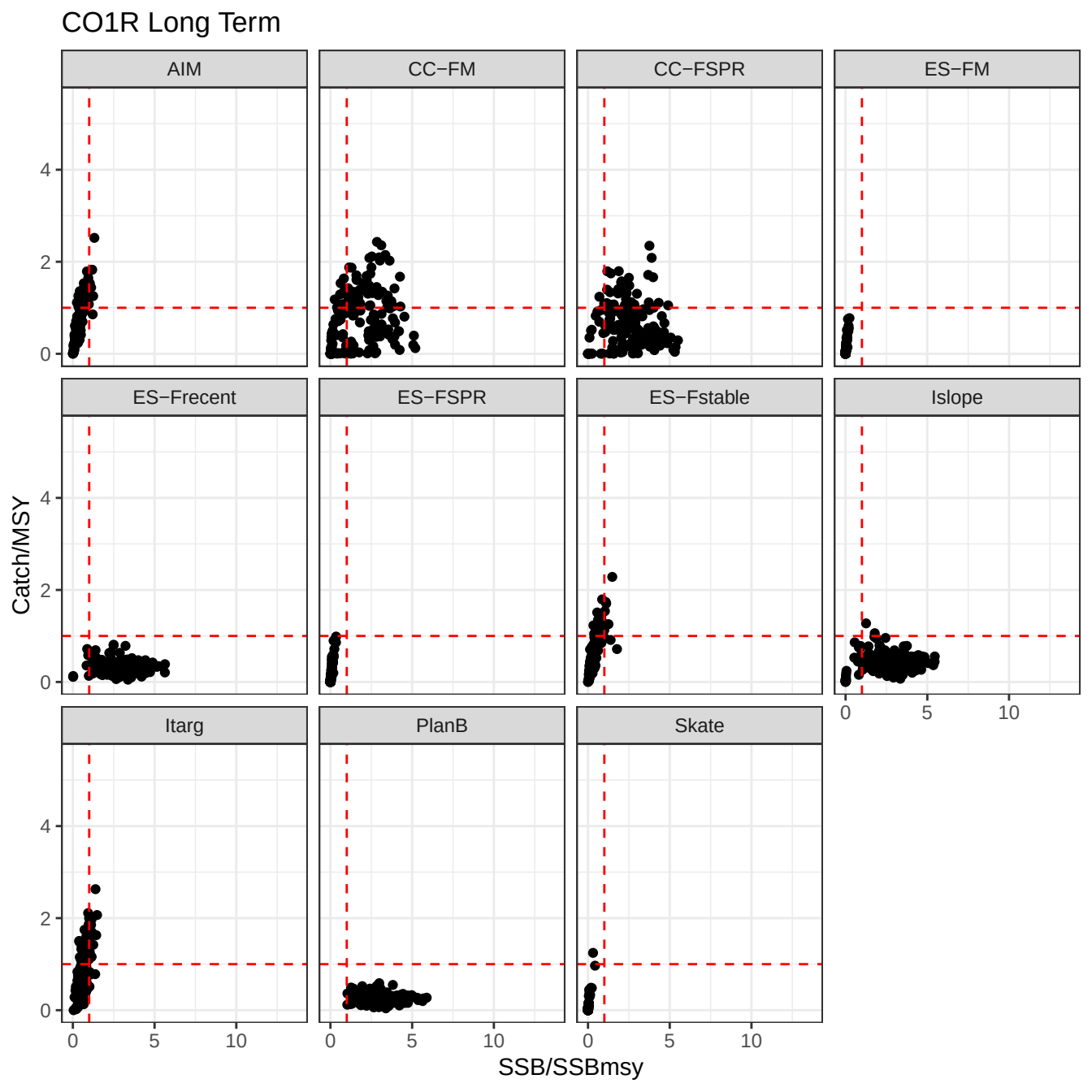

CF1A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

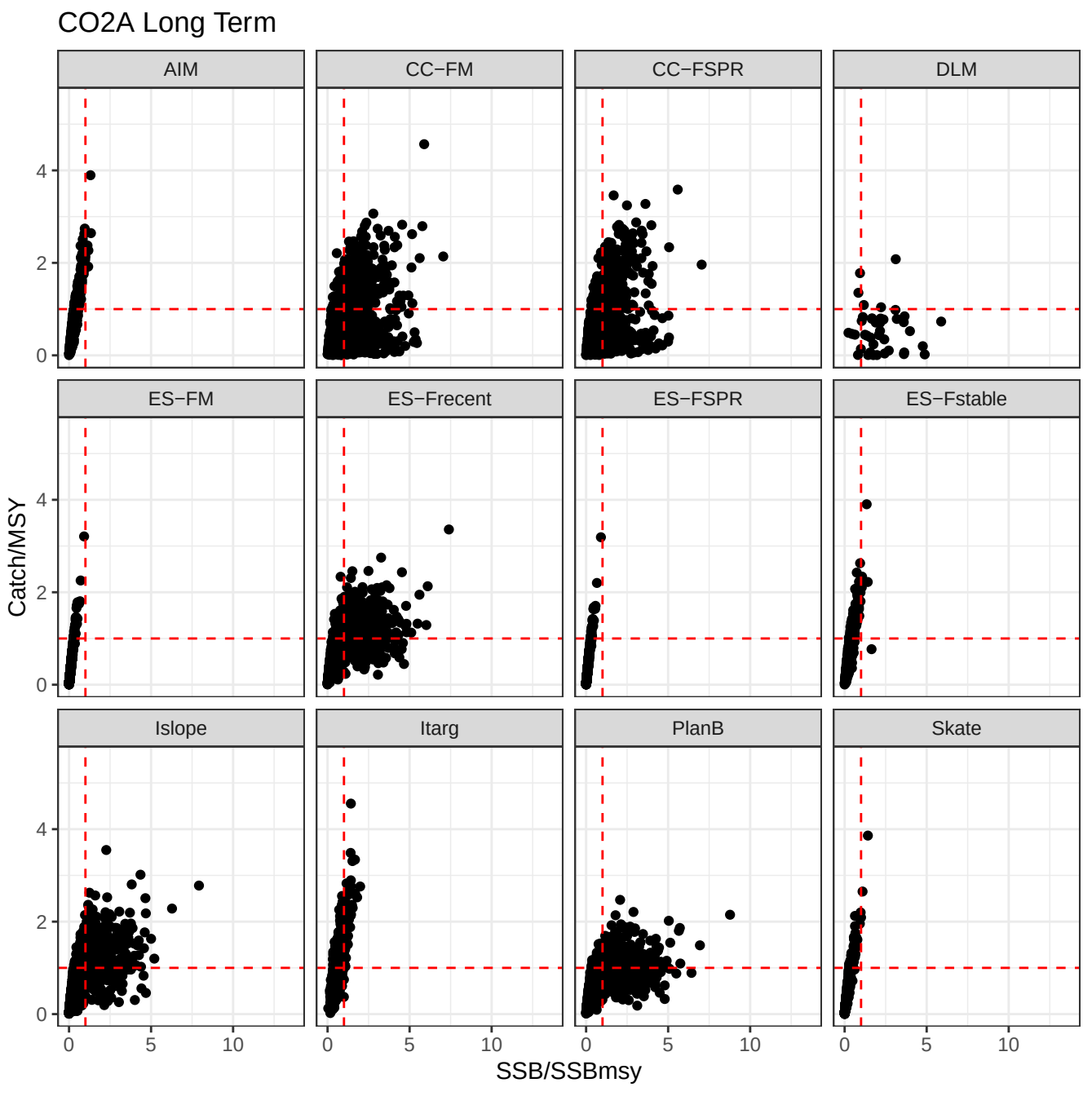

CF1R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

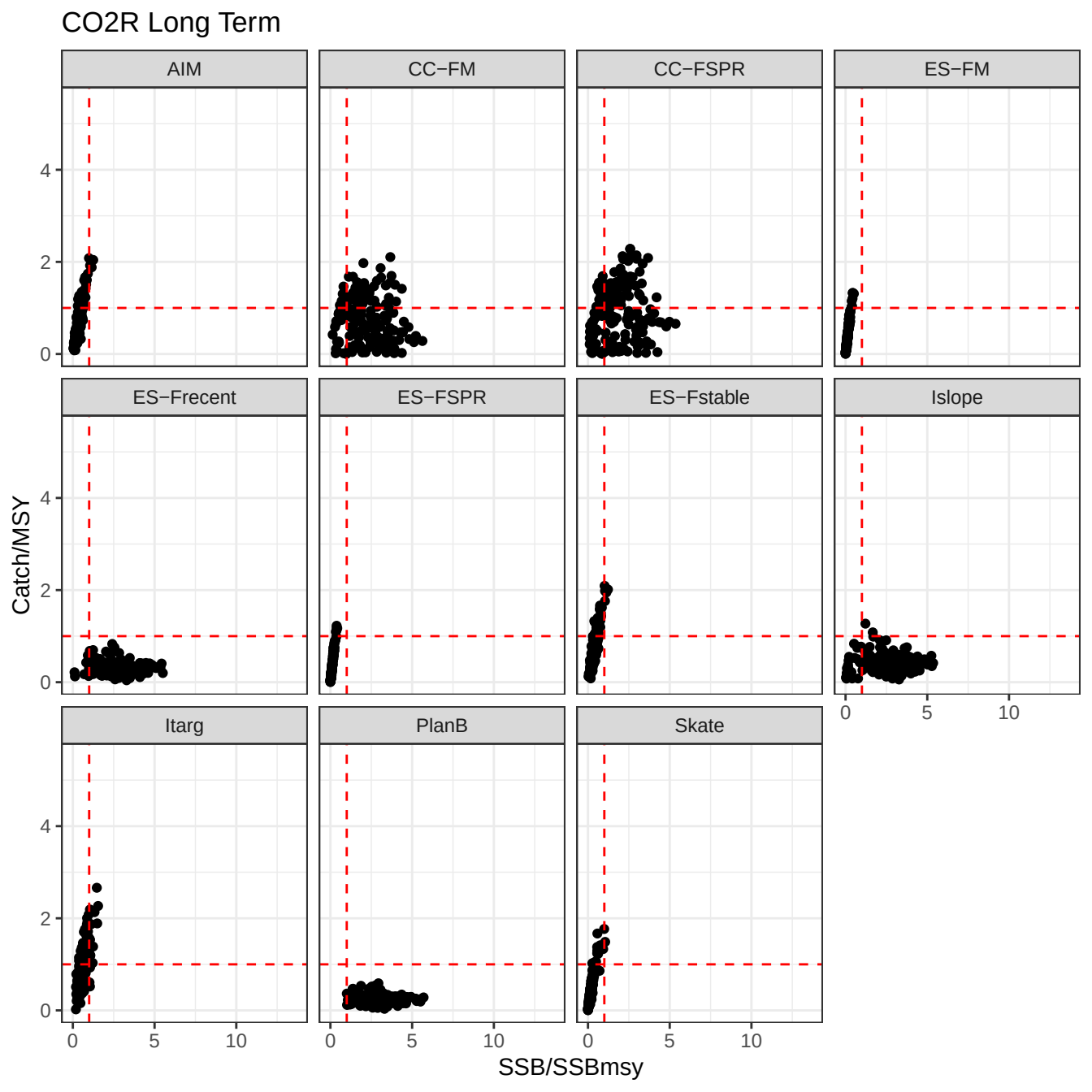

CF2A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

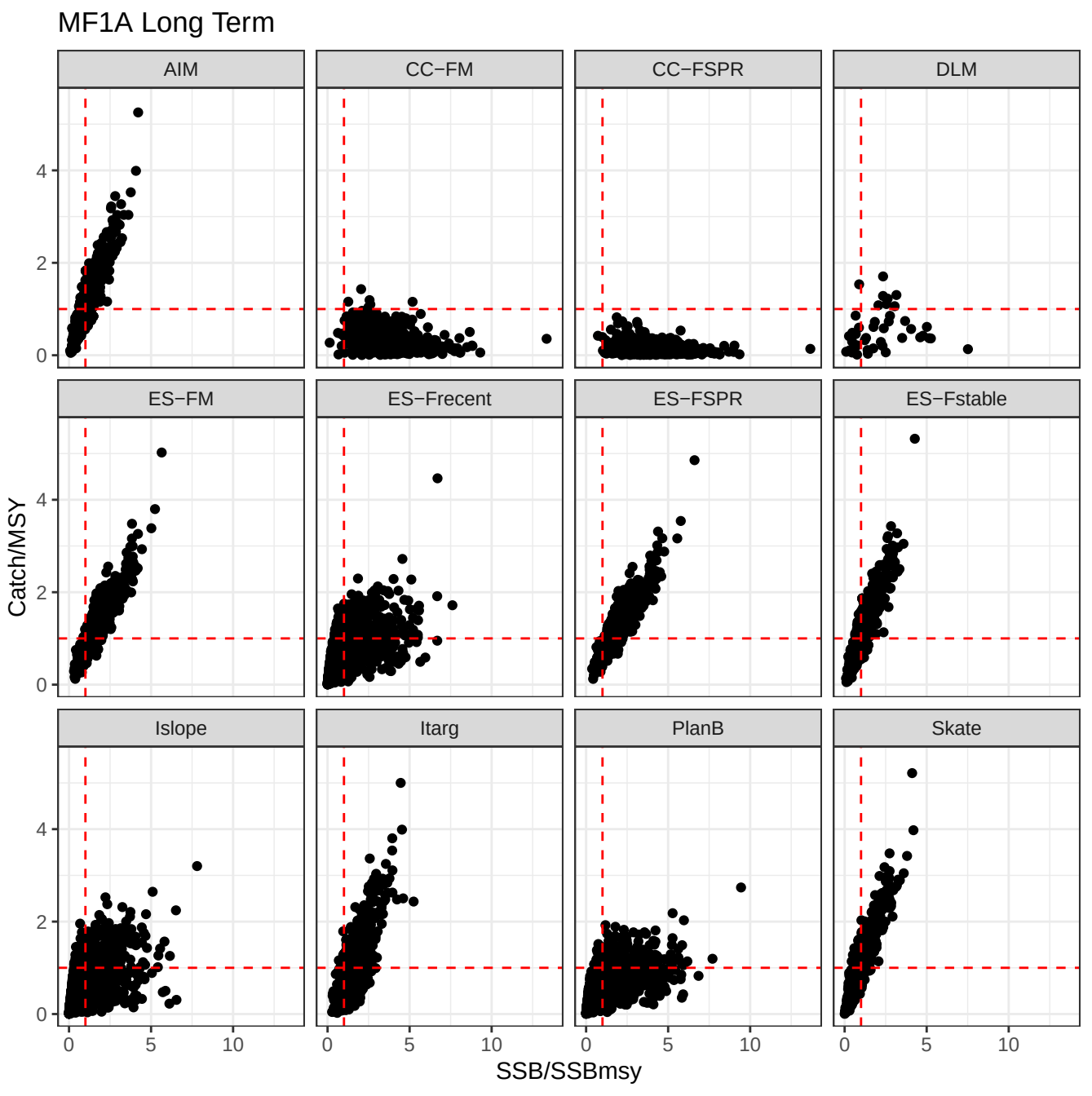

CF2R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

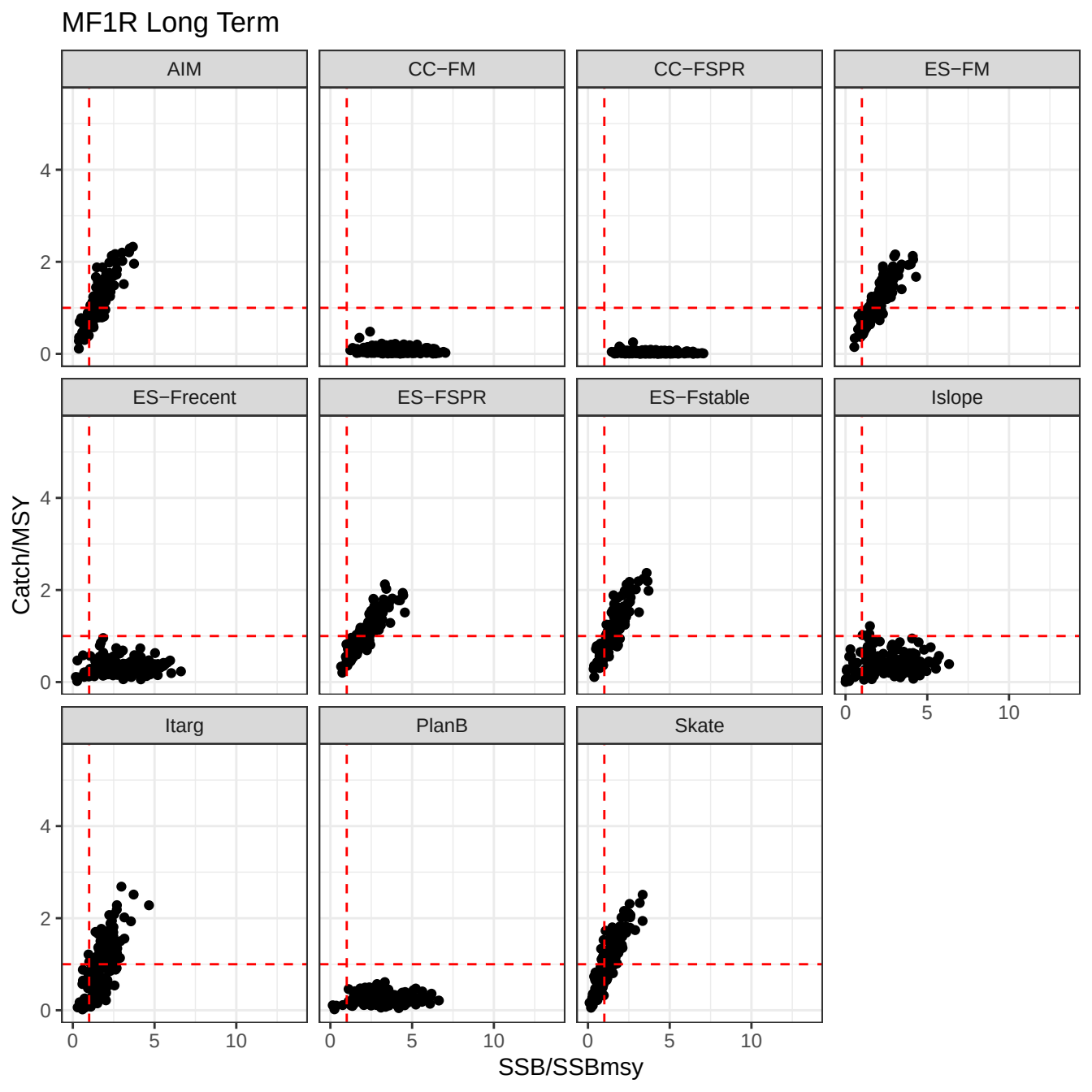

CO1A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

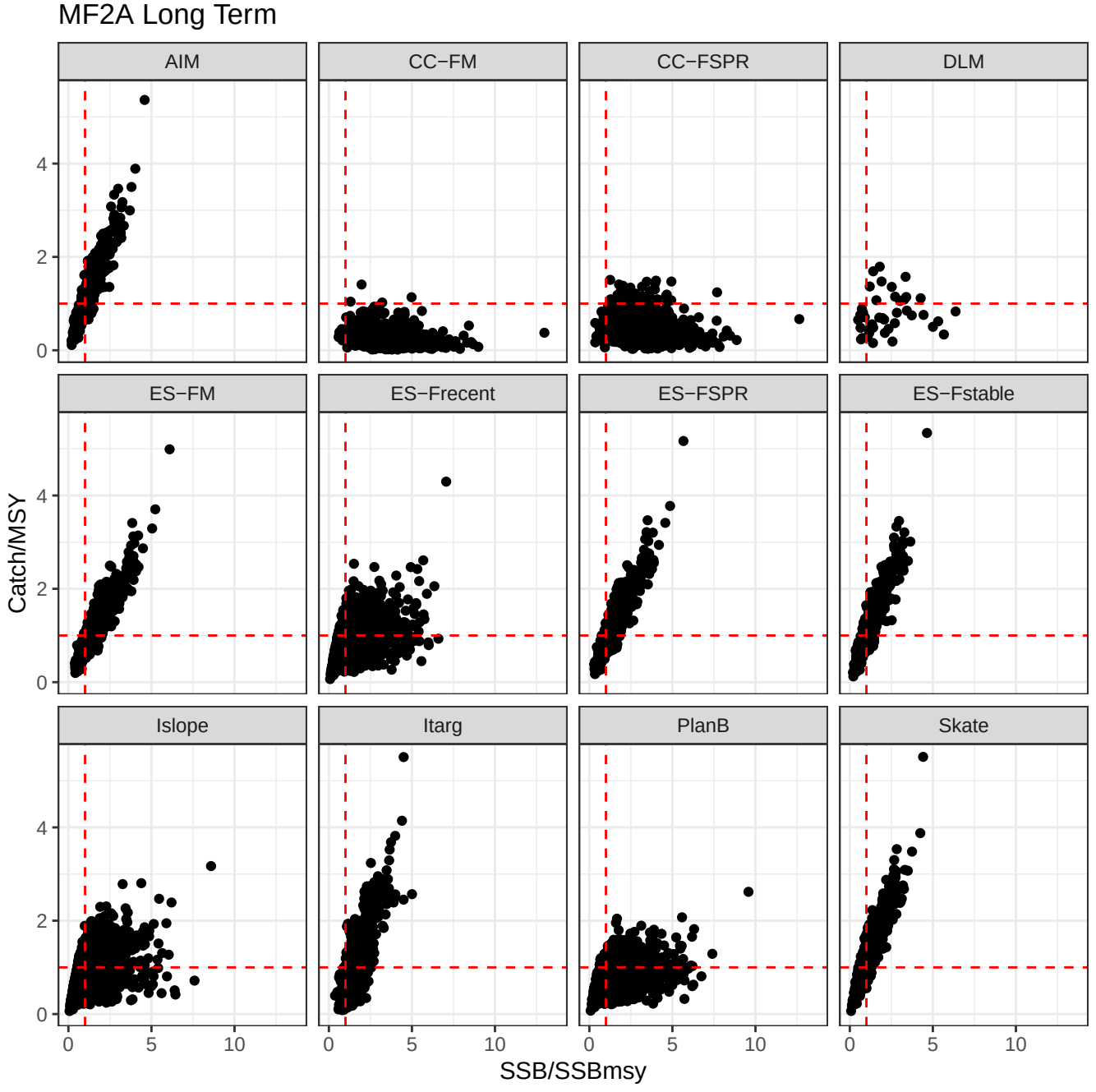

CO1R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

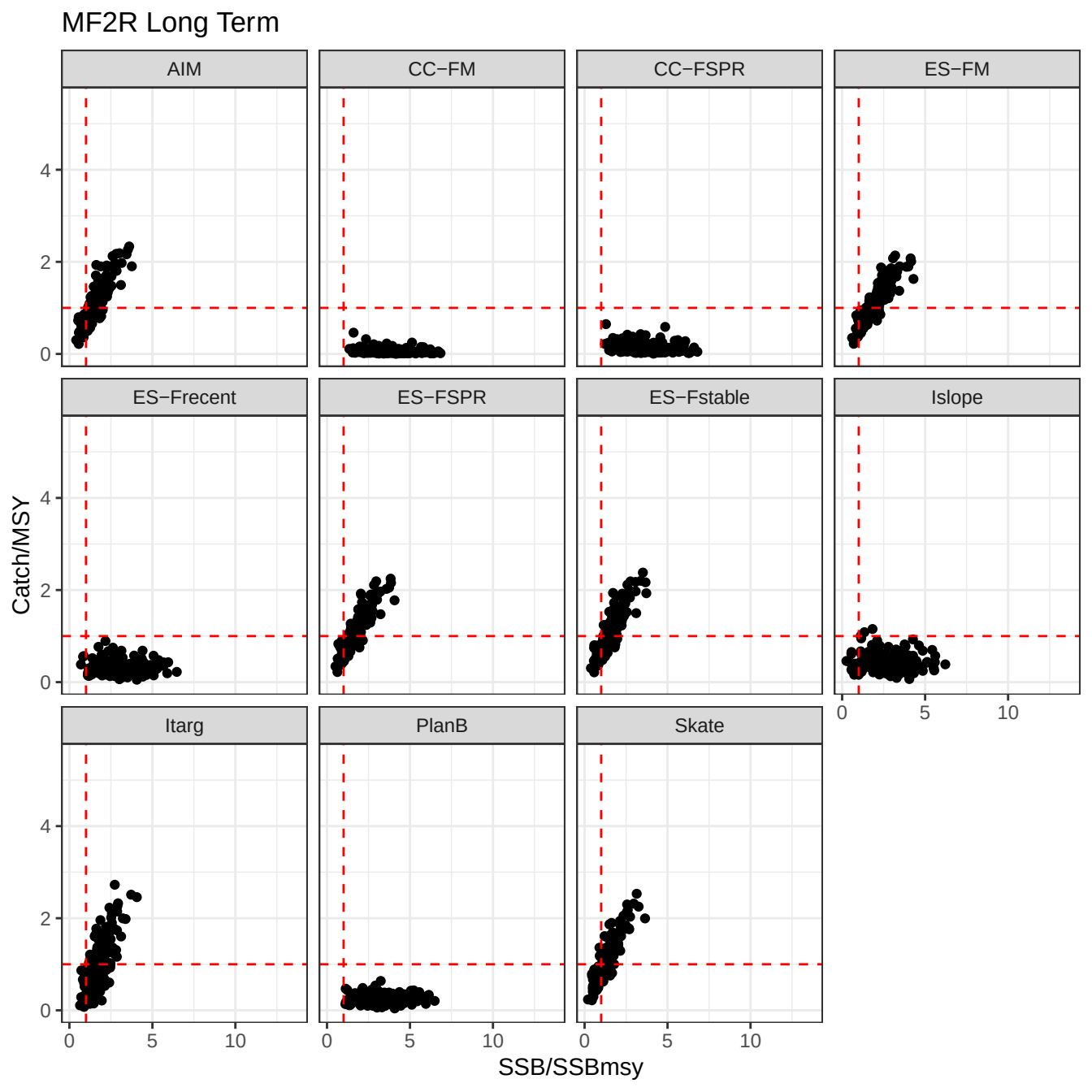

CO2A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

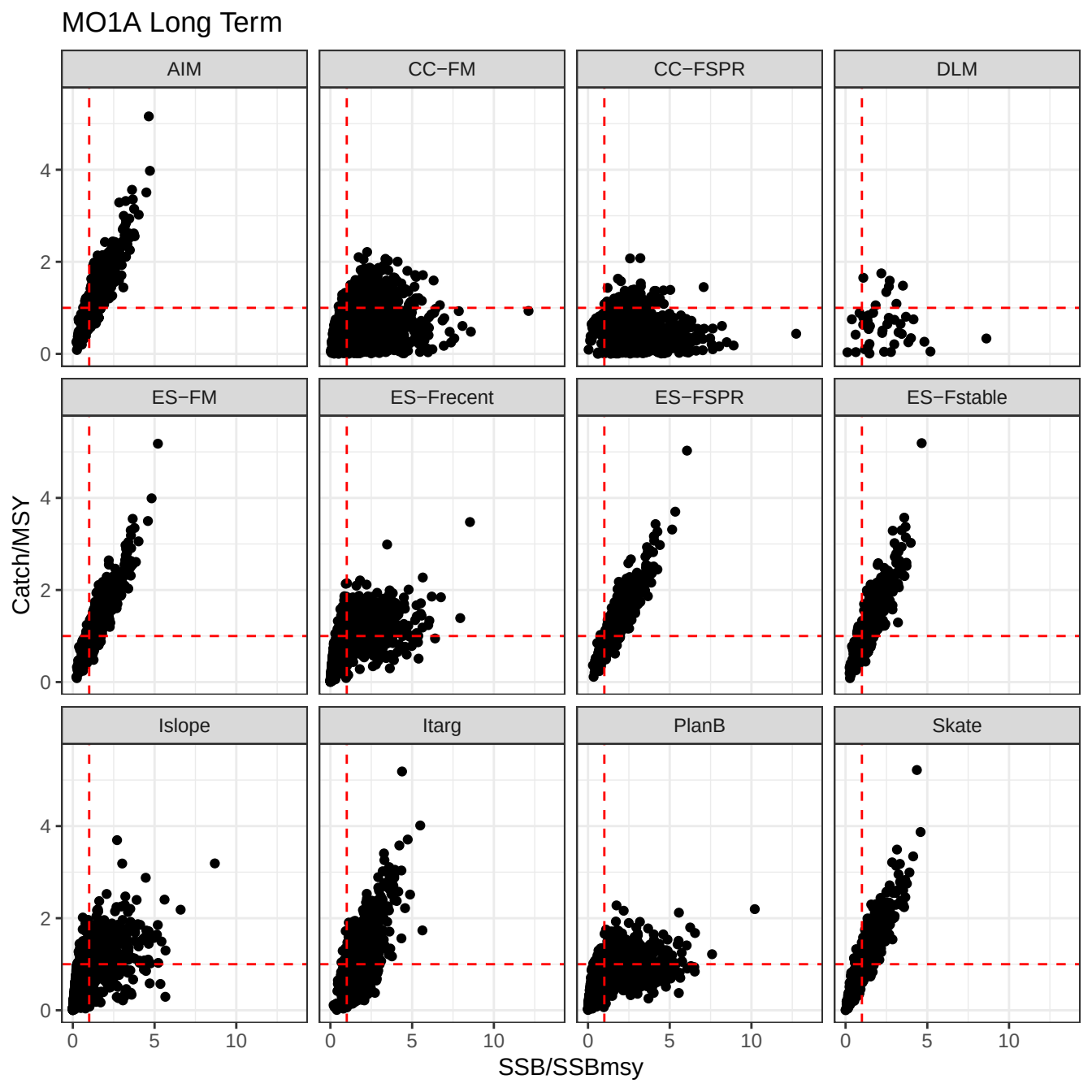

CO2R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

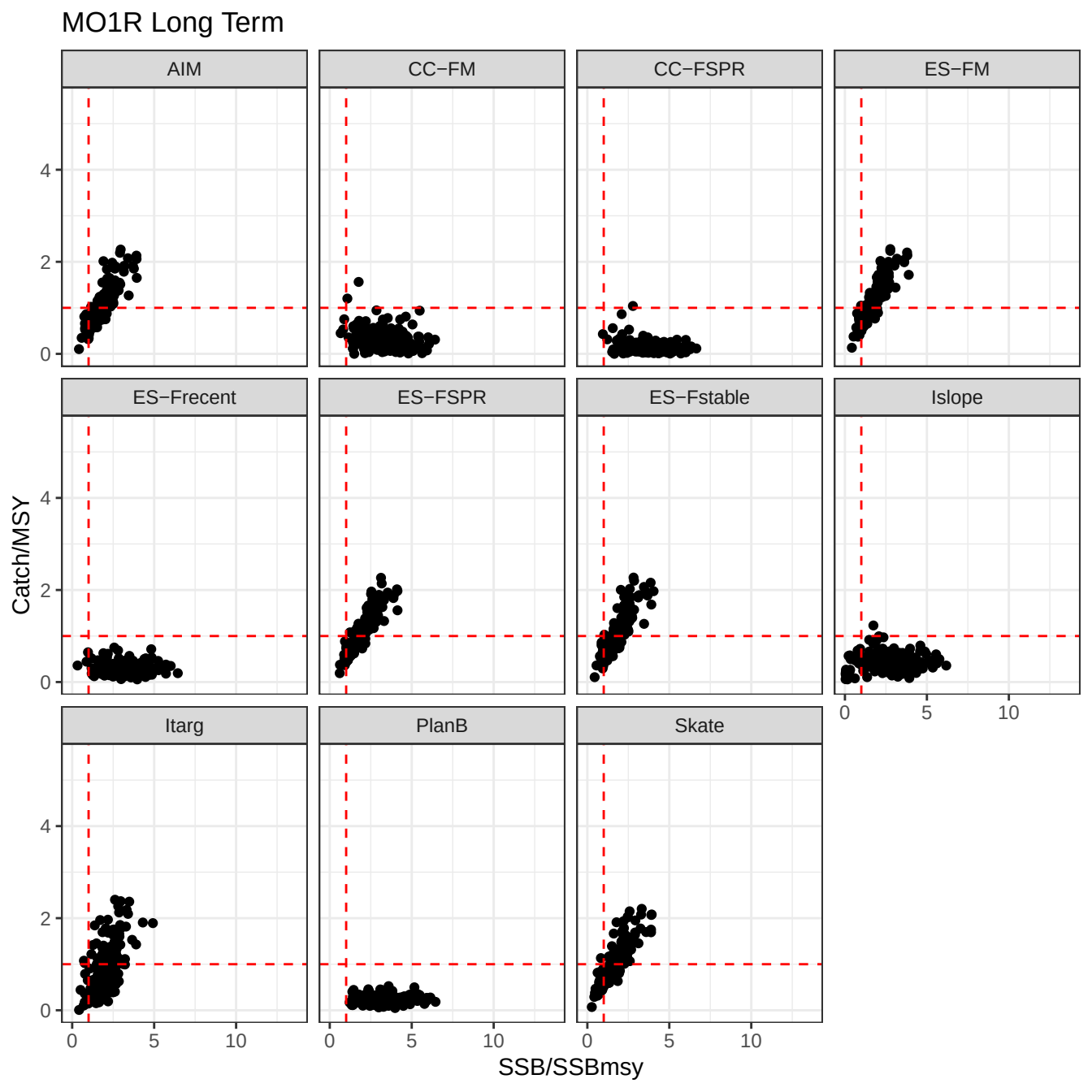

MF1A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

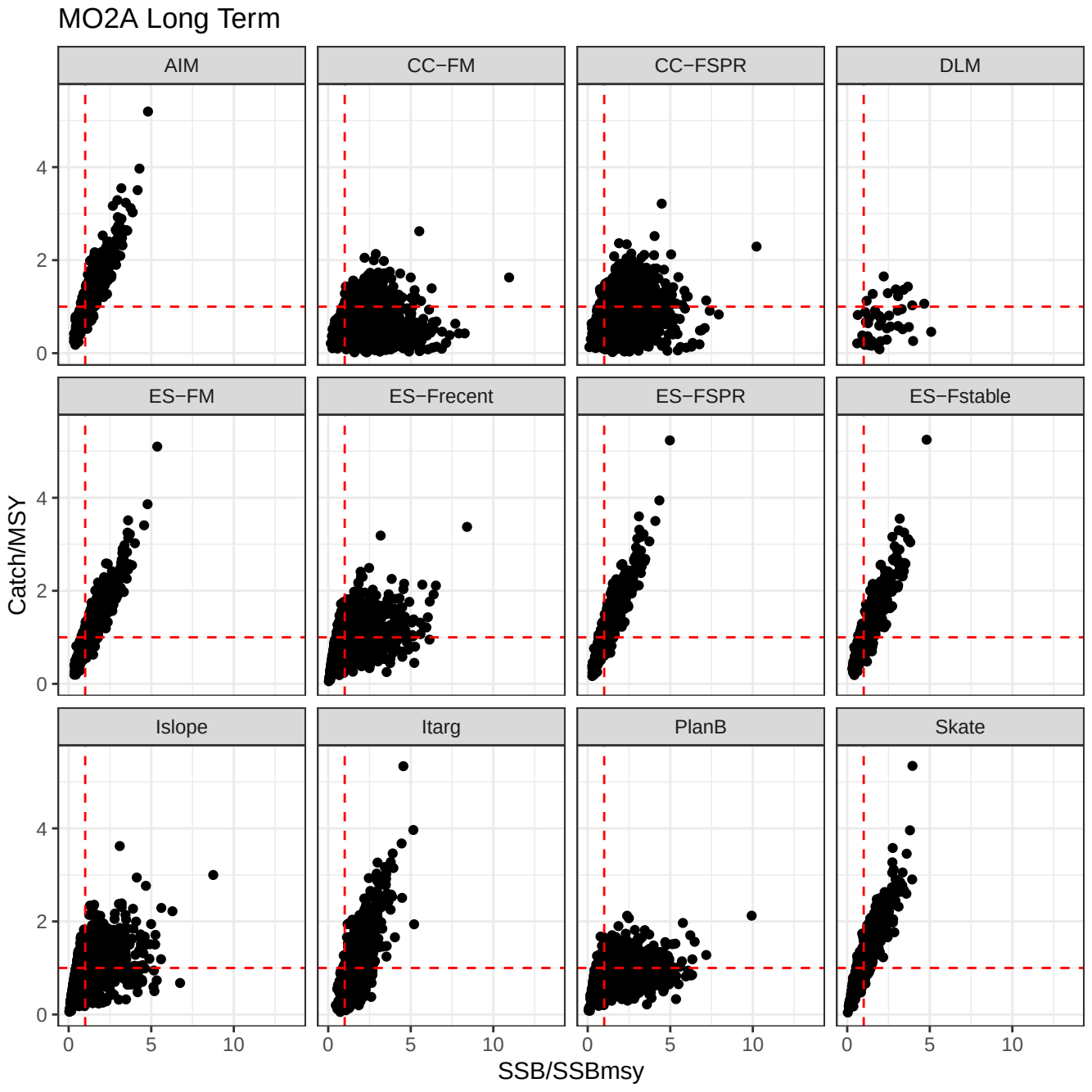

MF1R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

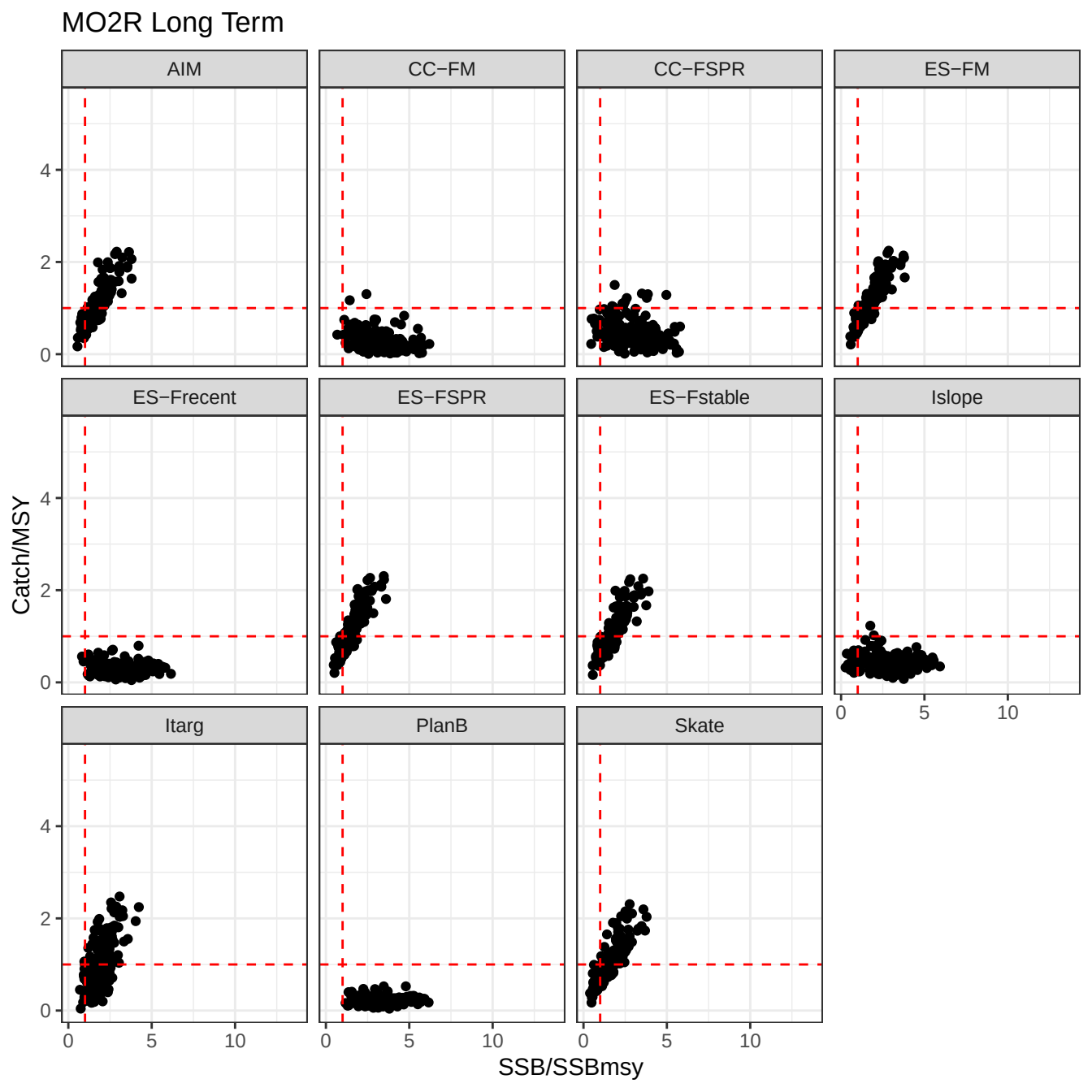

MF2A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

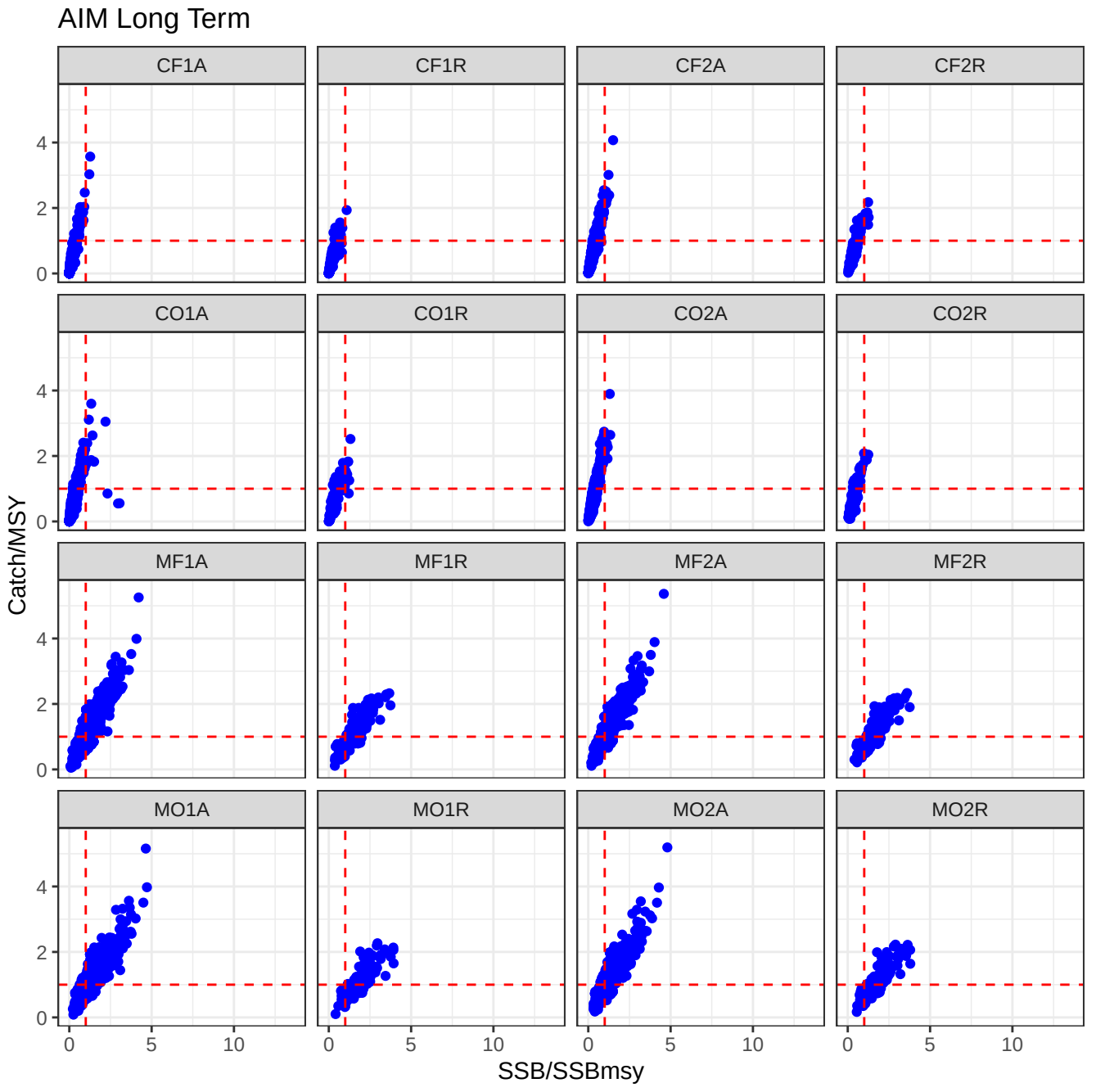

MF2R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

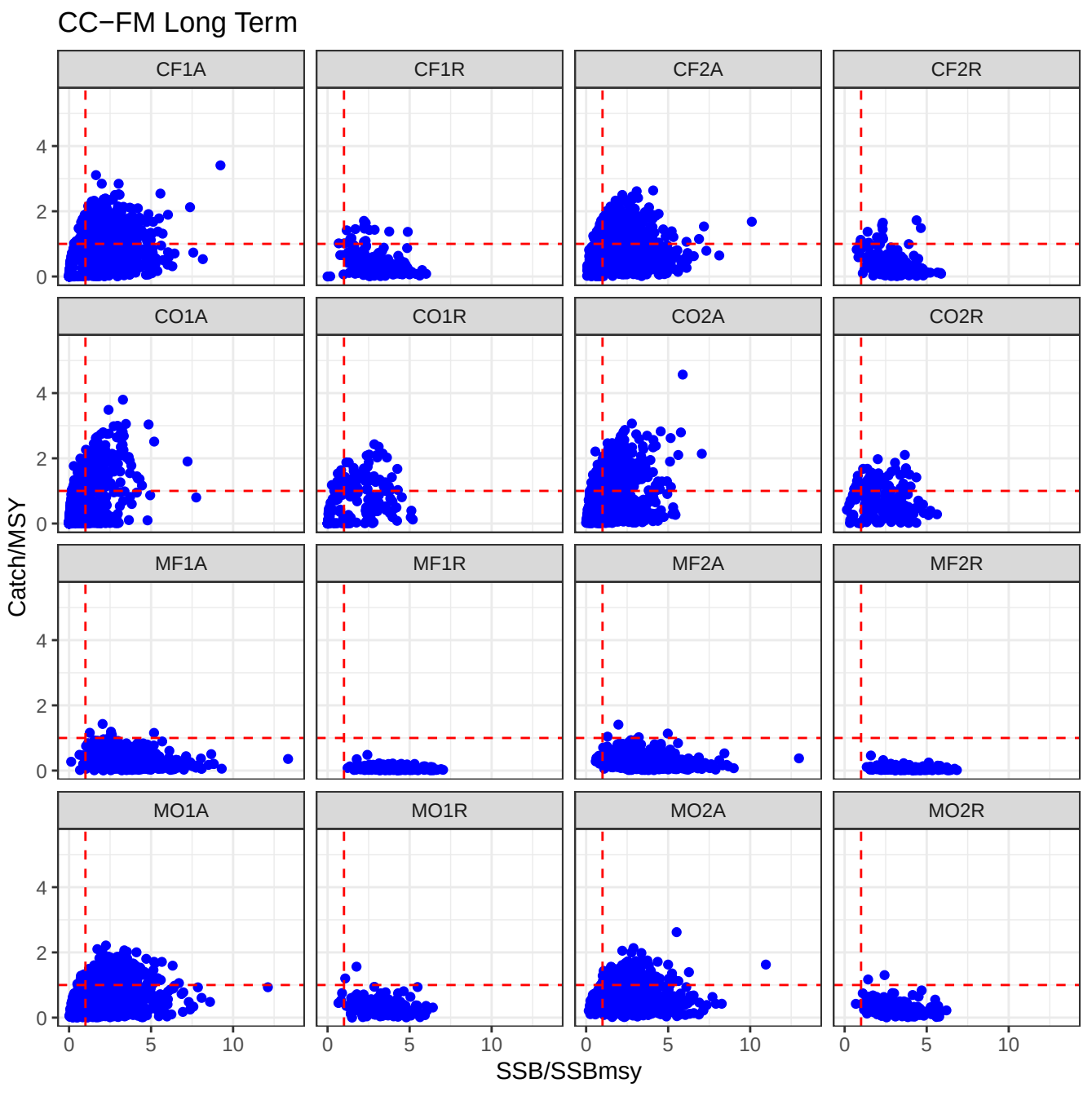

MO1A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

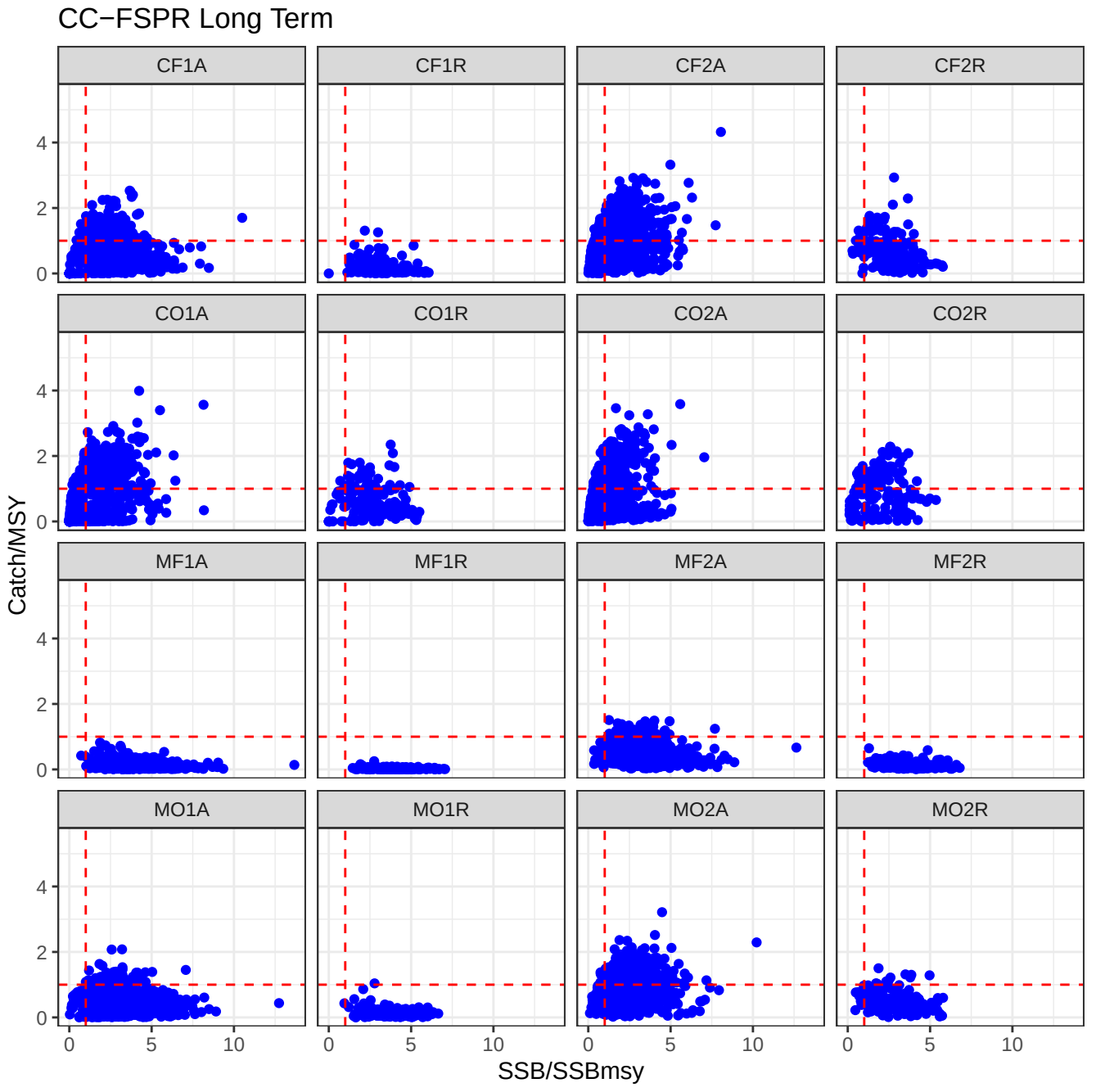

MO1R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

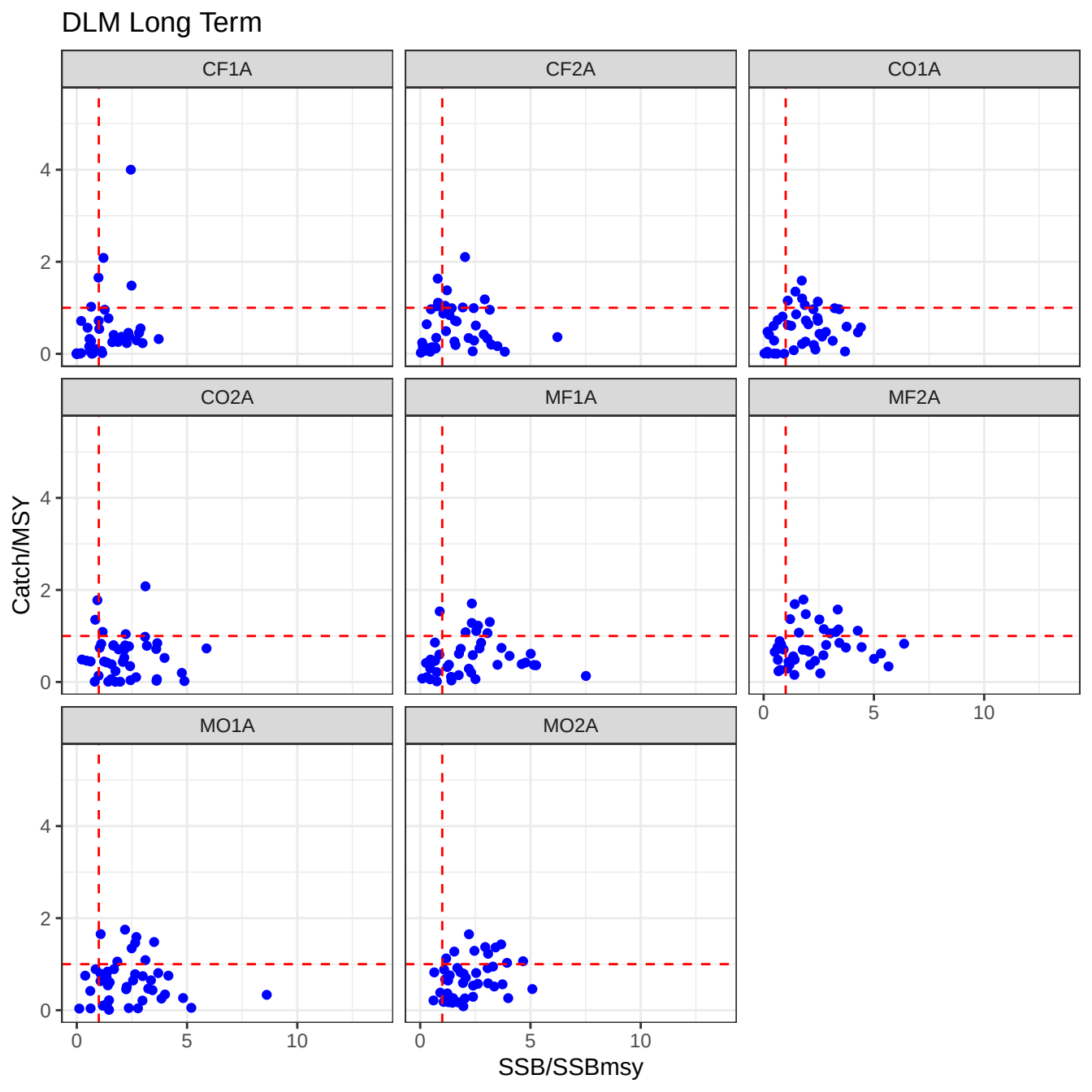

MO2A Long Term
AIM
CC−FM
CC−FSPR
DLM
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

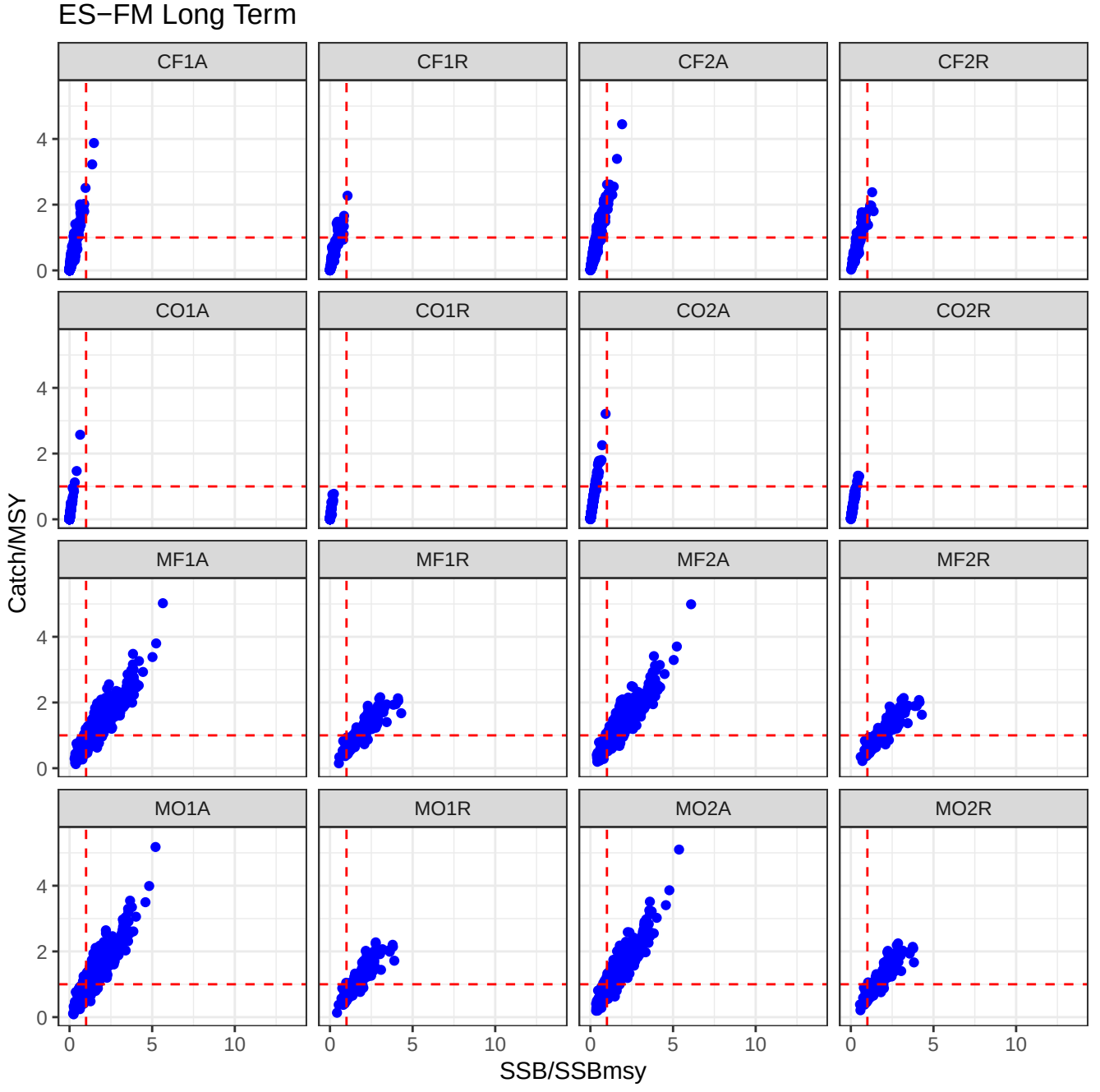

MO2R Long Term
AIM
CC−FM
CC−FSPR
ES−FM
ES−Frecent
ES−FSPR
ES−Fstable
Islope
Itarg
PlanB
Skate
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

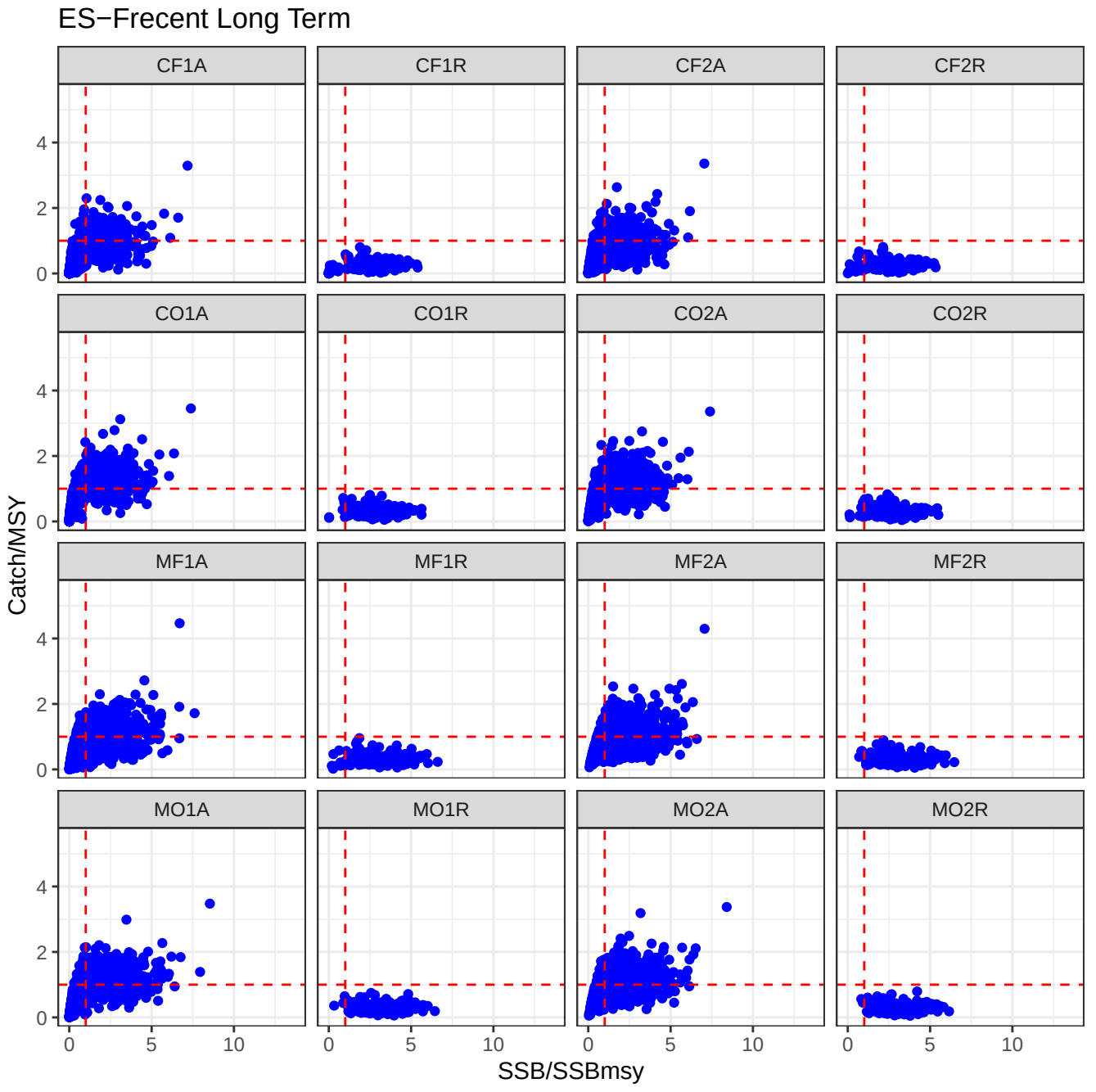

AIM Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

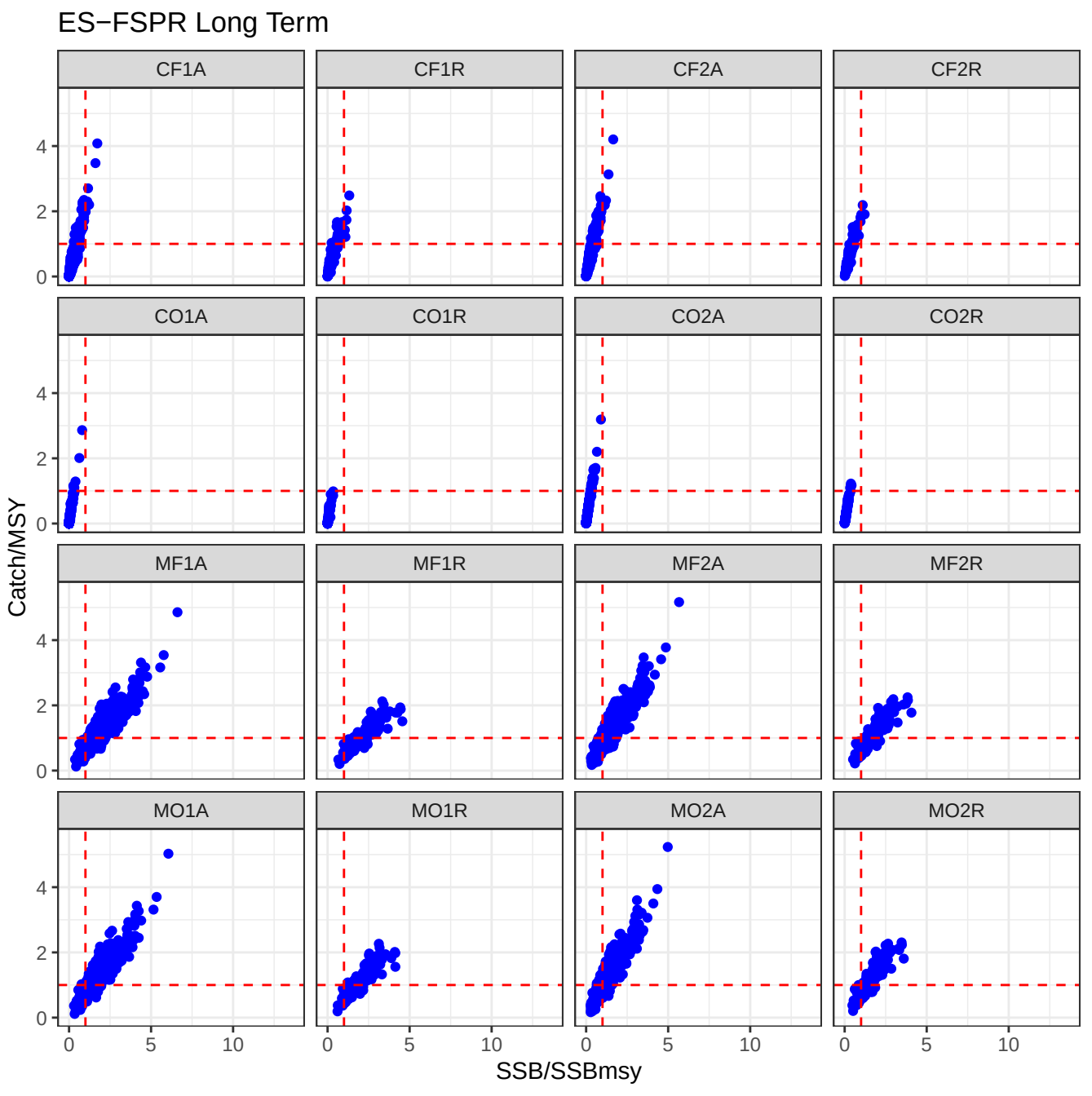

CC−FM Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

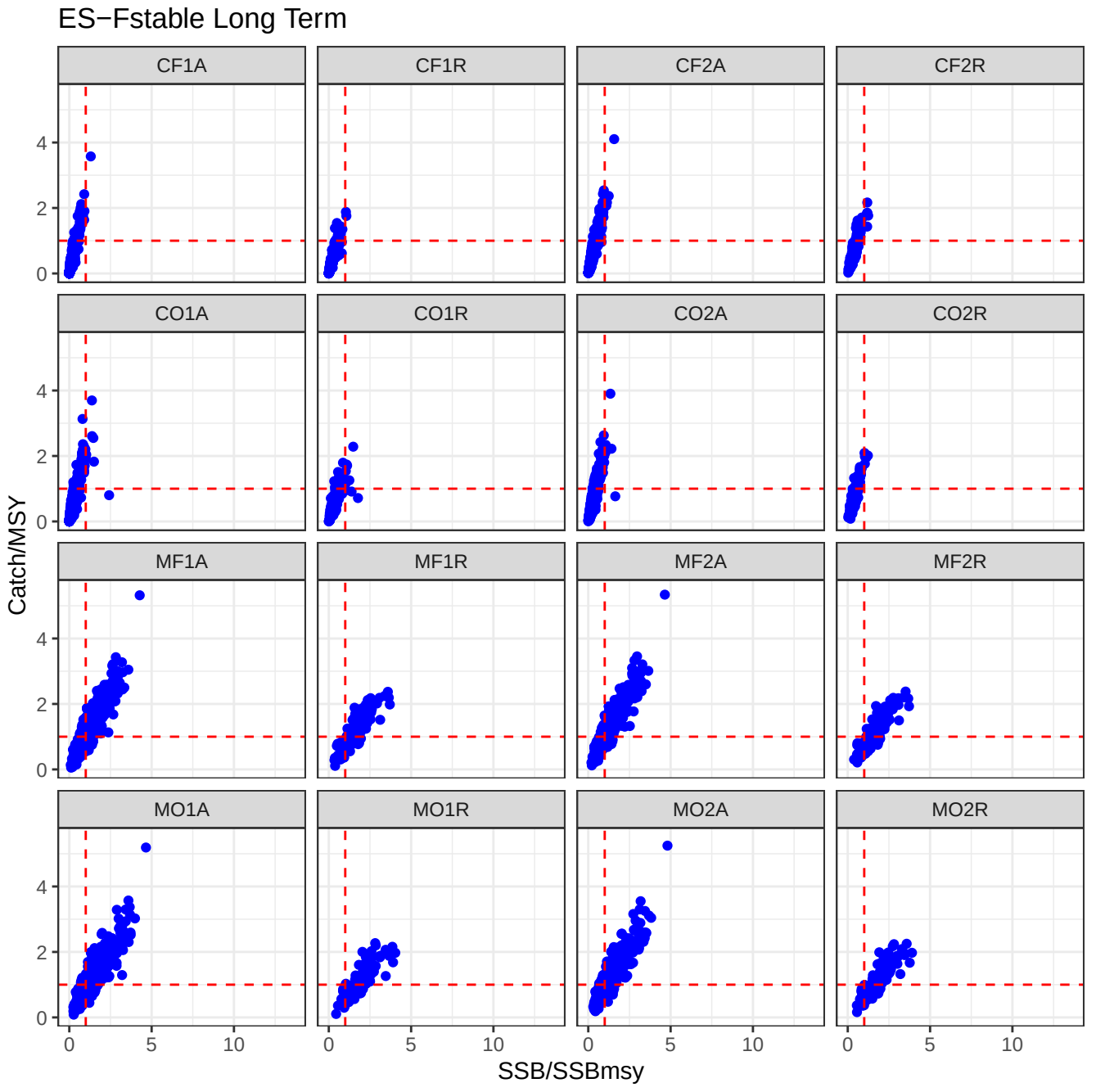

CC−FSPR Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10

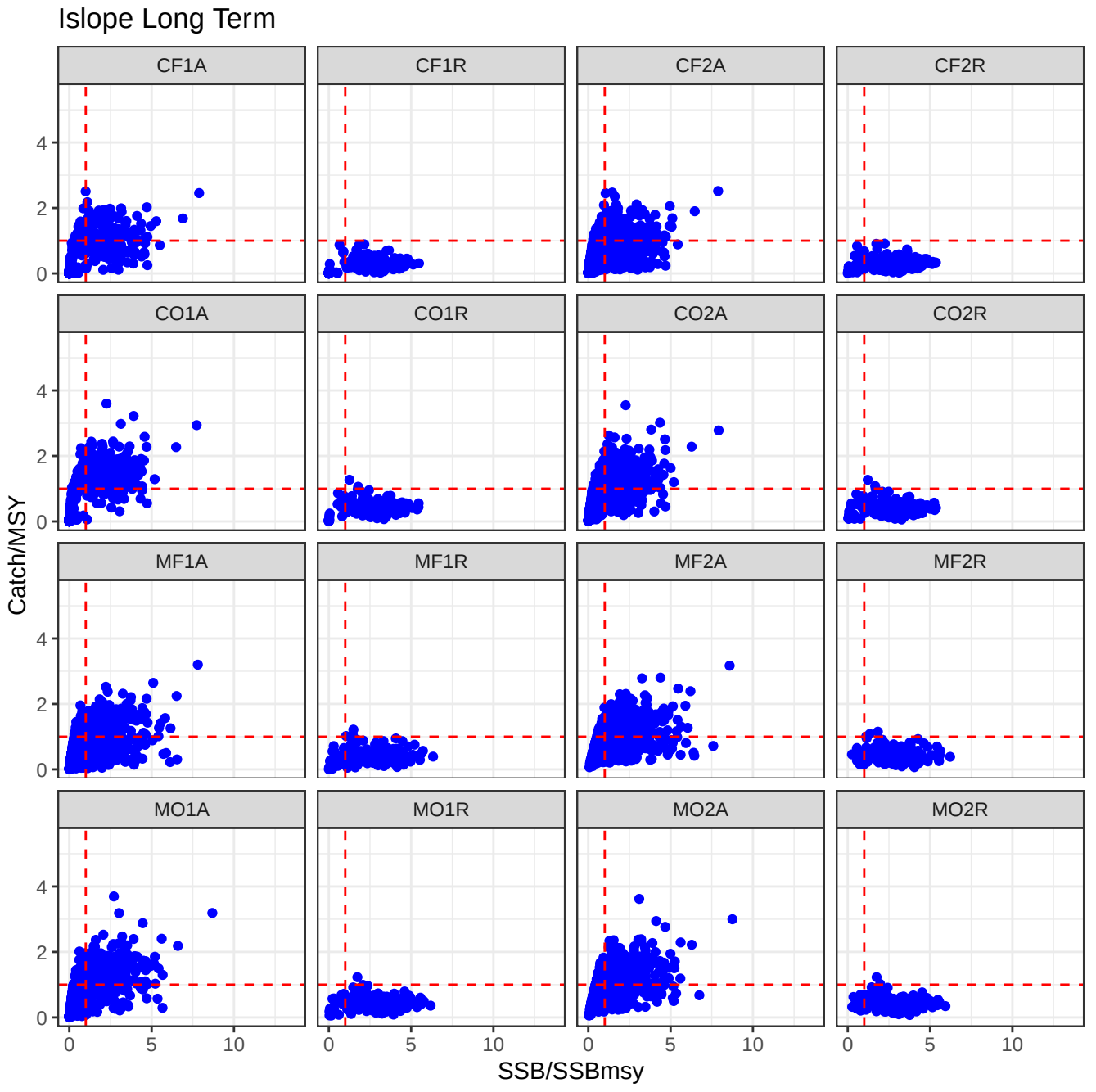

DLM Long Term
CF1A
CF2A
CO1A
CO2A
MF1A
MF2A
MO1A
MO2A
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10


ES−FM Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10


ES−Frecent Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10


ES−FSPR Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10


ES−Fstable Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10


Islope Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
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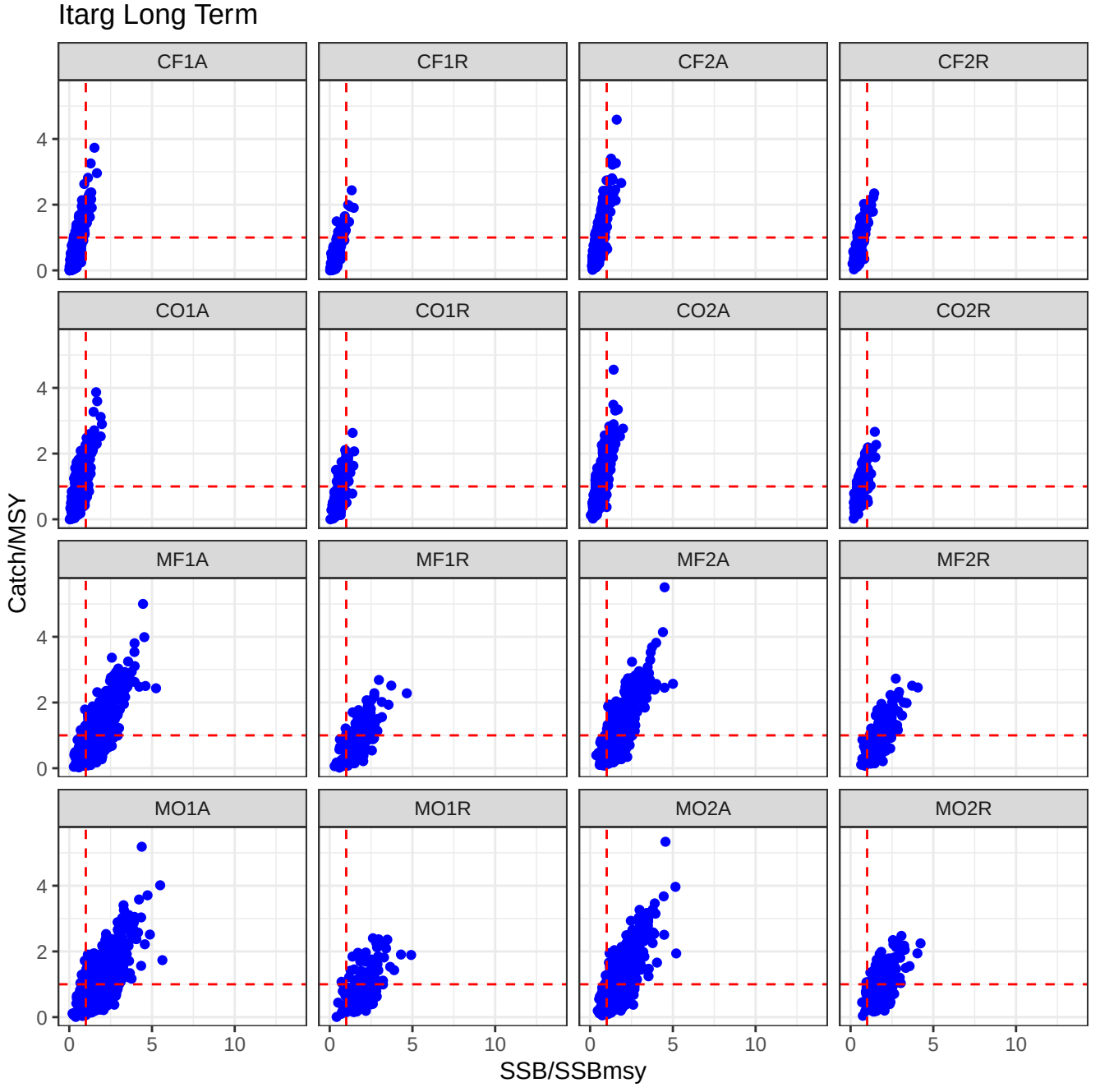
5
10


Itarg Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
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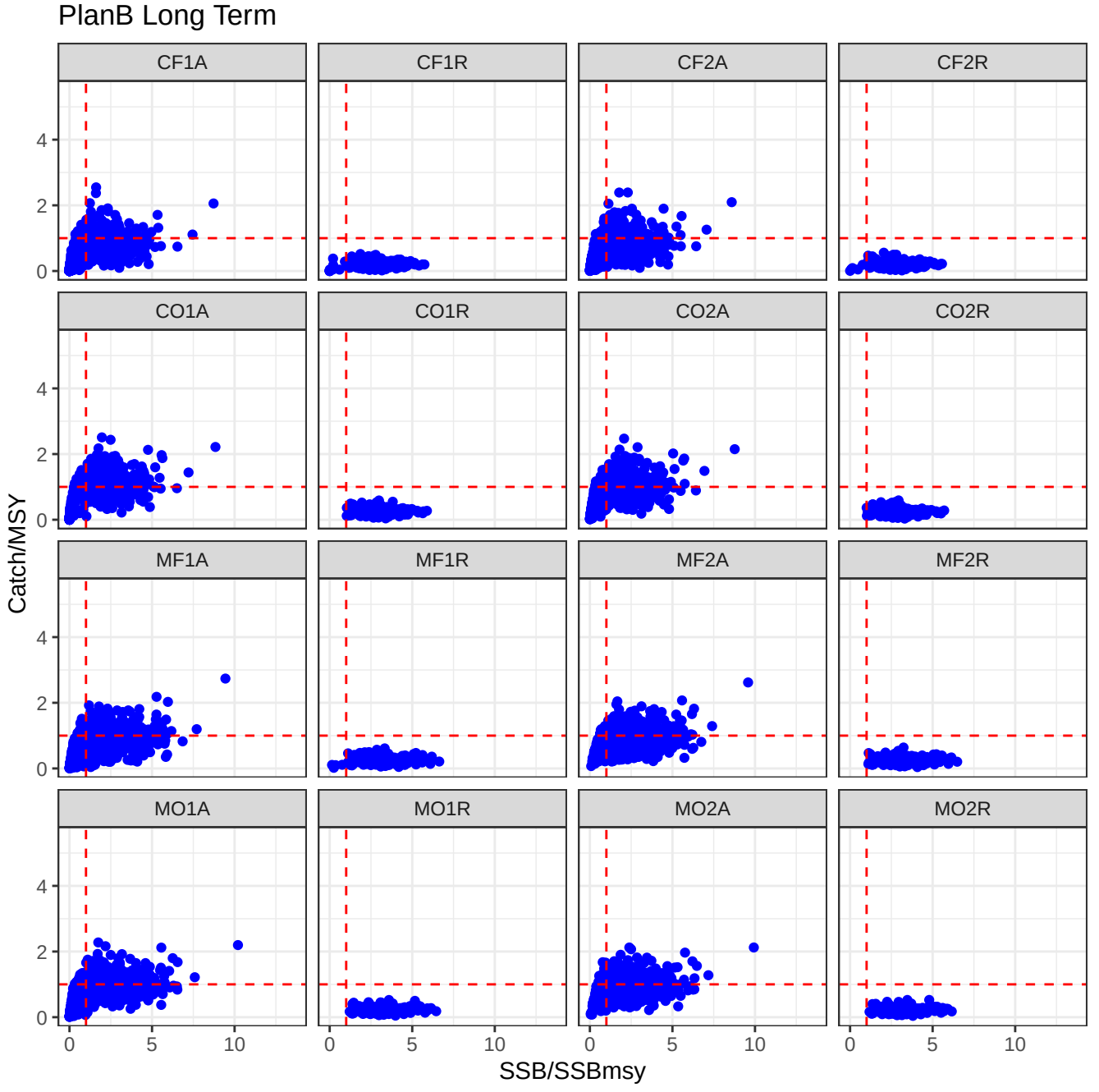
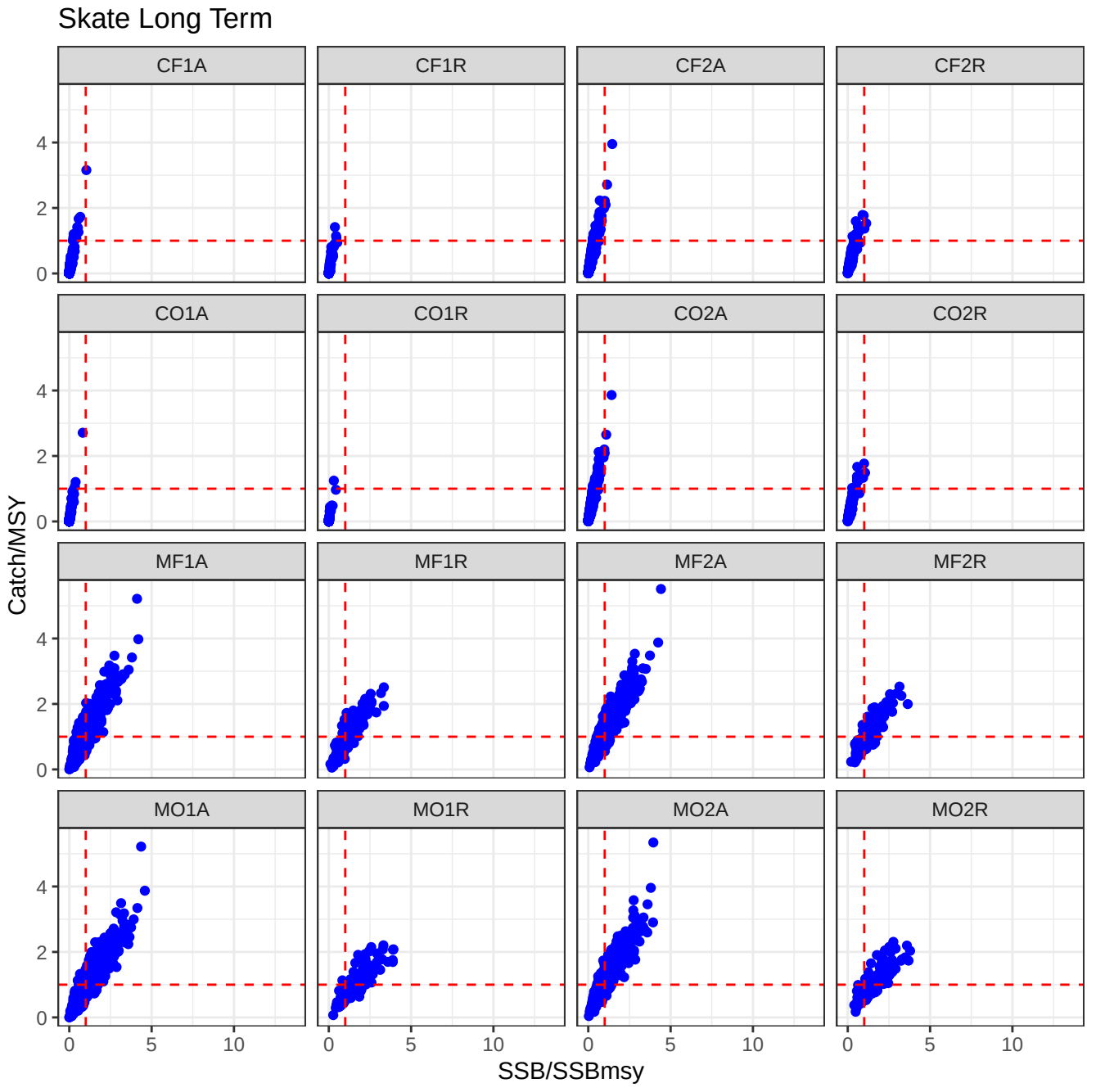

PlanB Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10


Skate Long Term
CF1A
CF1R
CF2A
CF2R
CO1A
CO1R
CO2A
CO2R
MF1A
MF1R
MF2A
MF2R
MO1A
MO1R
MO2A
MO2R
Catch/MSY
SSB/SSBmsy
0
2
4
0
5
10