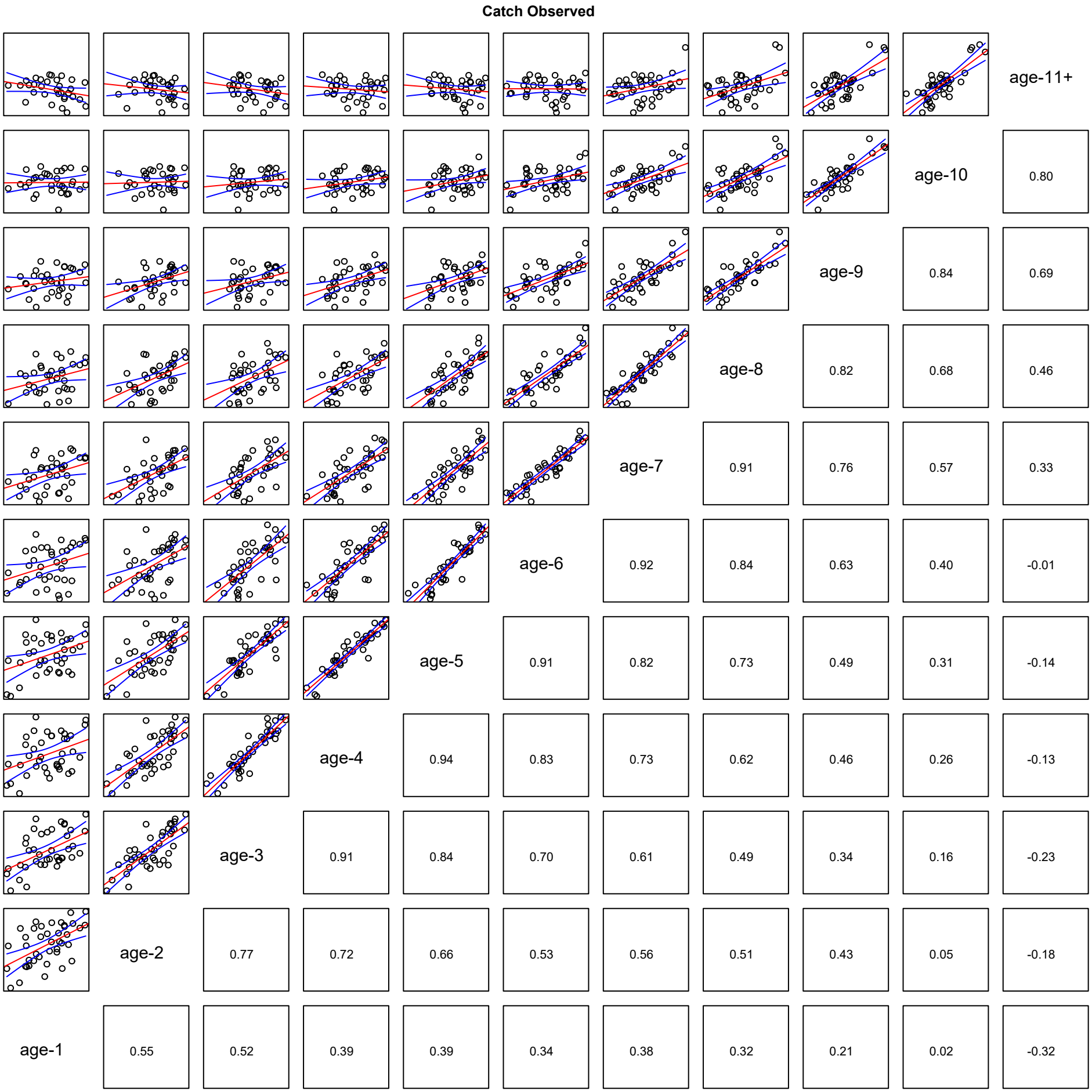
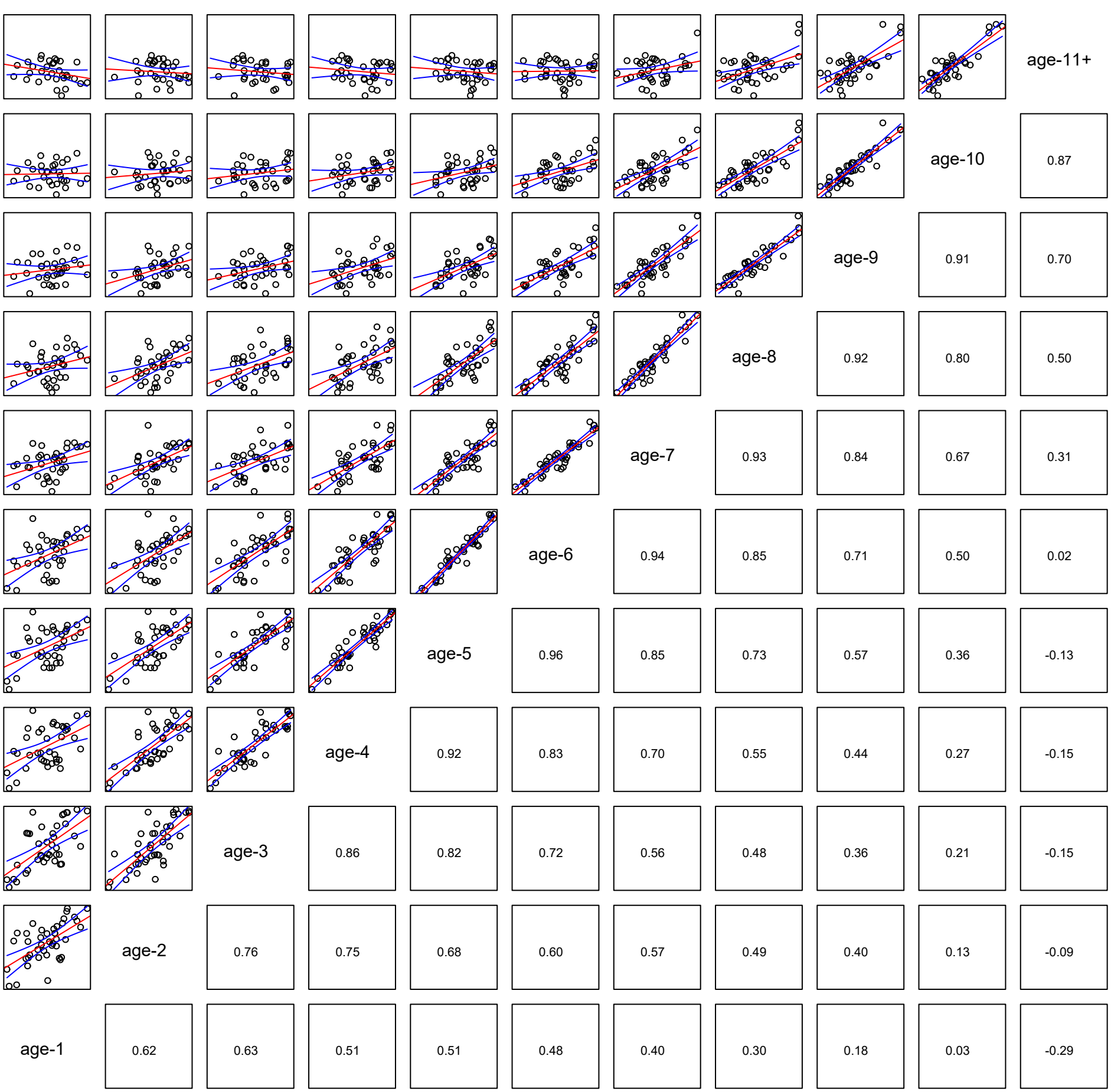
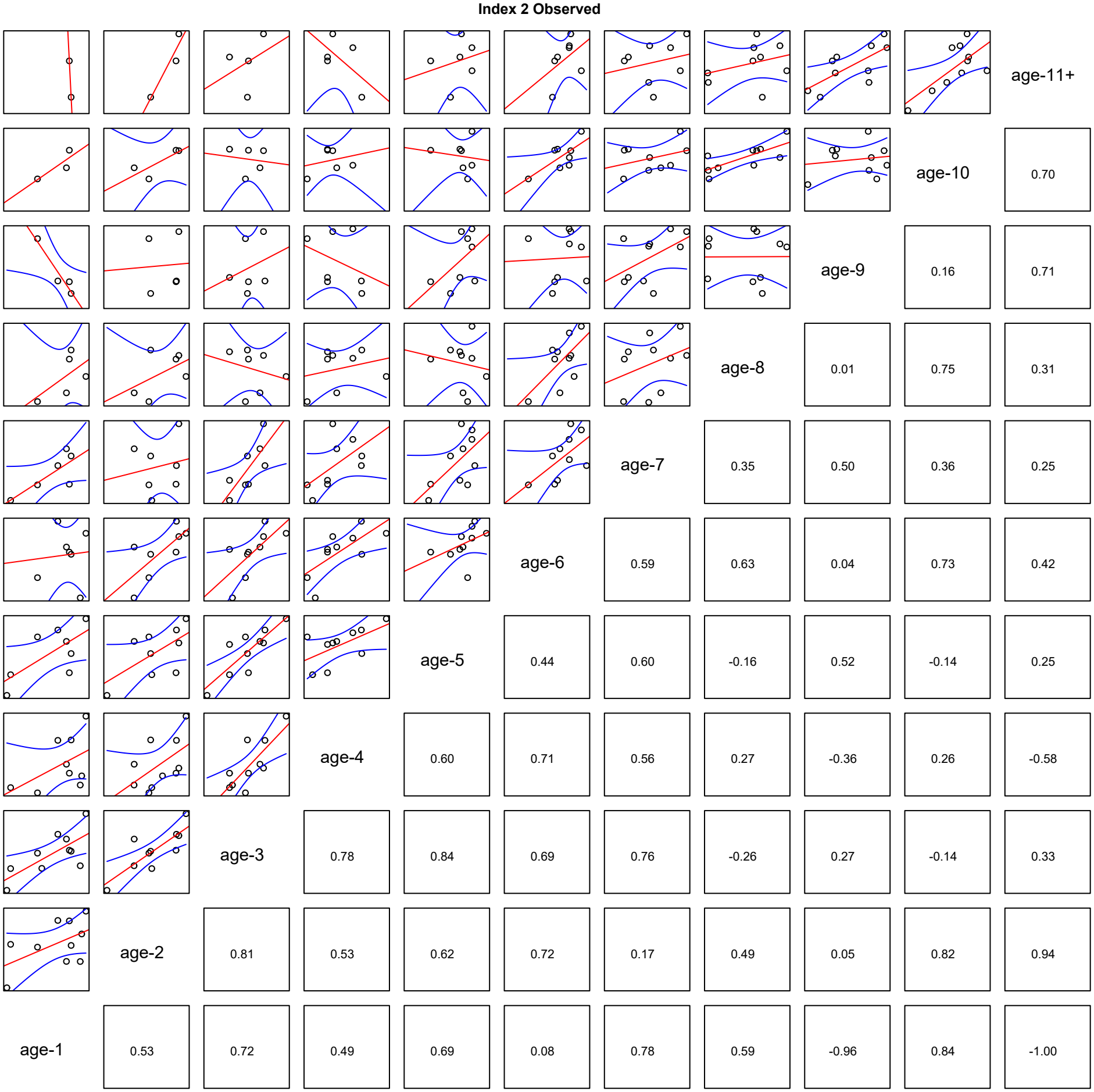
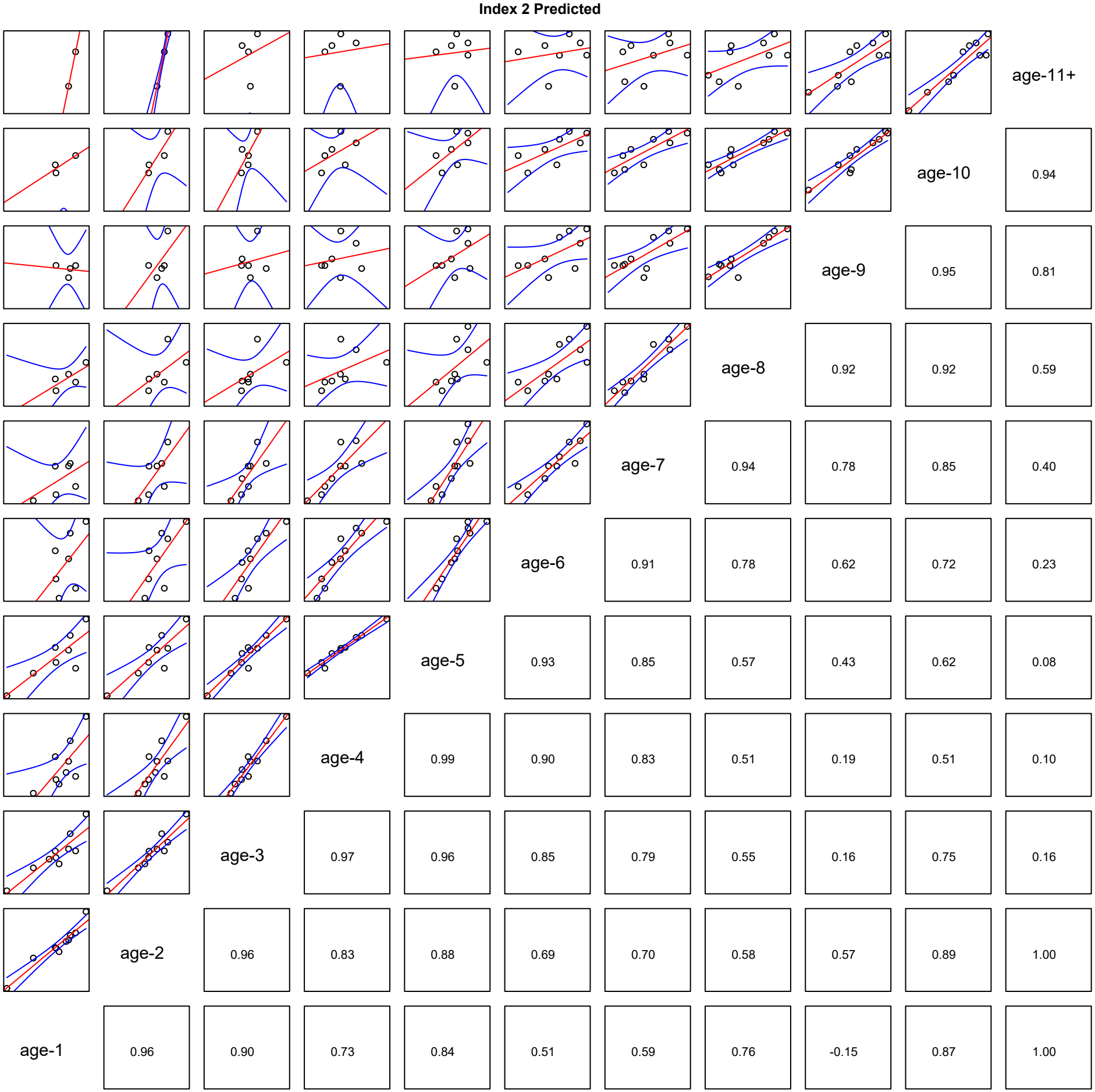

Catch Observed
age-11+
age-10
0.80
age-9
0.84
0.69
age-8
0.82
0.68
0.46
age-7
0.91
0.76
0.57
0.33
age-6
0.92
0.84
0.63
0.40
-0.01
age-5
0.91
0.82
0.73
0.49
0.31
-0.14
age-4
0.94
0.83
0.73
0.62
0.46
0.26
-0.13
age-3
0.91
0.84
0.70
0.61
0.49
0.34
0.16
-0.23
age-2
0.77
0.72
0.66
0.53
0.56
0.51
0.43
0.05
-0.18
age-1
0.55
0.52
0.39
0.39
0.34
0.38
0.32
0.21
0.02
-0.32


Catch Predicted
age-11+
age-10
0.87
age-9
0.91
0.70
age-8
0.92
0.80
0.50
age-7
0.93
0.84
0.67
0.31
age-6
0.94
0.85
0.71
0.50
0.02
age-5
0.96
0.85
0.73
0.57
0.36
-0.13
age-4
0.92
0.83
0.70
0.55
0.44
0.27
-0.15
age-3
0.86
0.82
0.72
0.56
0.48
0.36
0.21
-0.15
age-2
0.76
0.75
0.68
0.60
0.57
0.49
0.40
0.13
-0.09
age-1
0.62
0.63
0.51
0.51
0.48
0.40
0.30
0.18
0.03
-0.29

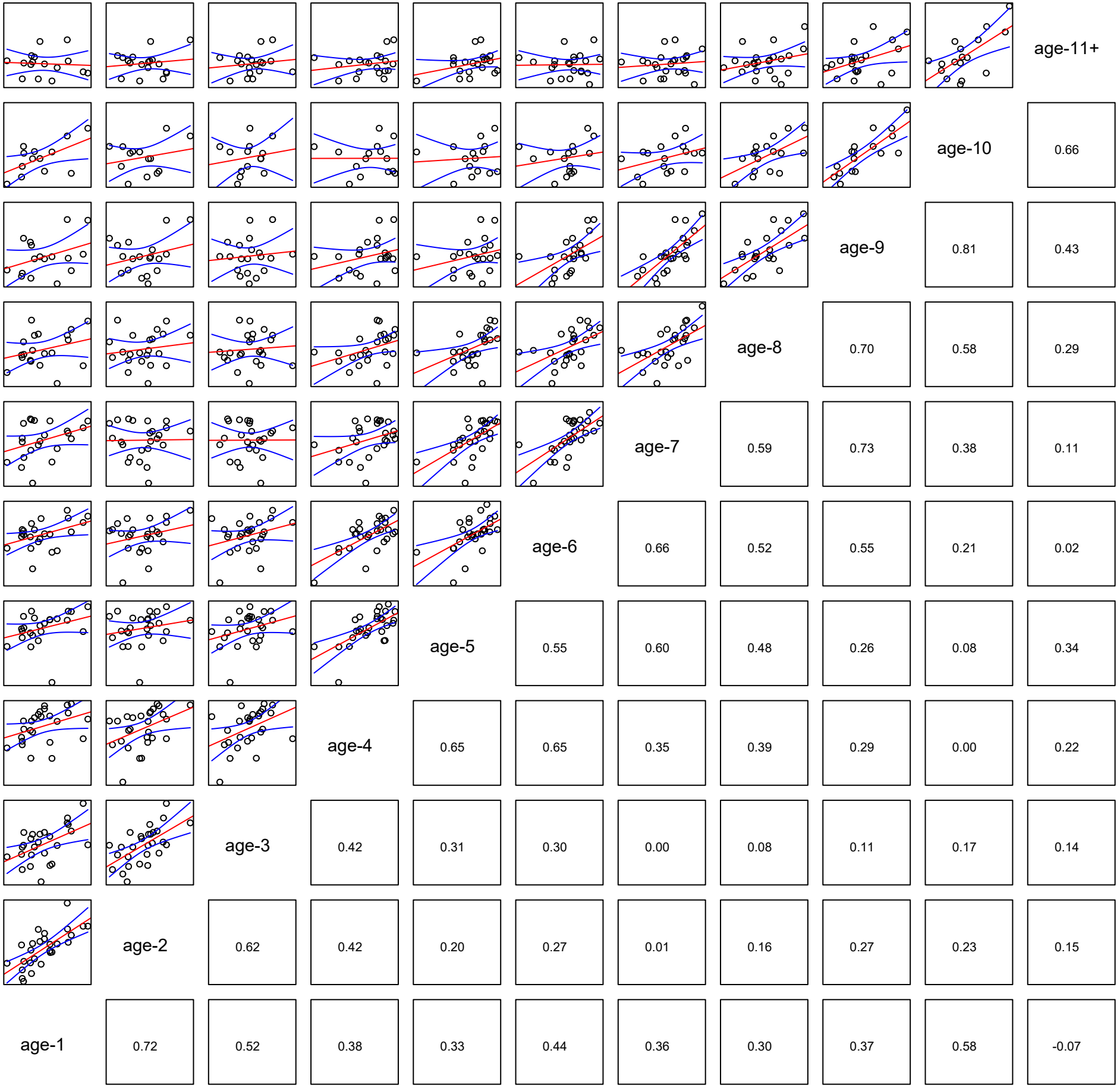
Index 1 Observed
age-11+
age-10
0.50
age-9
0.38
0.56
age-8
0.51
0.69
0.21
age-7
0.74
0.53
0.58
0.16
age-6
0.76
0.66
0.42
0.34
-0.12
age-5
0.83
0.78
0.65
0.41
0.48
-0.34
age-4
0.67
0.67
0.46
0.50
0.22
0.34
-0.16
age-3
0.37
0.45
0.38
0.48
0.29
0.03
0.43
0.10
age-2
0.50
0.36
0.22
0.31
0.23
0.02
0.22
0.09
-0.17
age-1
0.36
0.63
0.35
0.46
0.30
0.05
0.11
0.30
0.10
0.29

Index 1 Predicted
age-11+
age-10
0.95
age-9
0.95
0.83
age-8
0.95
0.84
0.65
age-7
0.96
0.87
0.75
0.54
age-6
0.96
0.88
0.74
0.59
0.33
age-5
0.95
0.86
0.76
0.64
0.52
0.36
age-4
0.87
0.79
0.63
0.56
0.47
0.46
0.37
age-3
0.85
0.65
0.52
0.39
0.35
0.29
0.30
0.22
age-2
0.95
0.77
0.54
0.44
0.35
0.33
0.30
0.31
0.23
age-1
0.94
0.90
0.73
0.52
0.47
0.40
0.39
0.34
0.38
0.22


Index 2 Observed
age-11+
age-10
0.70
age-9
0.16
0.71
age-8
0.01
0.75
0.31
age-7
0.35
0.50
0.36
0.25
age-6
0.59
0.63
0.04
0.73
0.42
age-5
0.44
0.60
-0.16
0.52
-0.14
0.25
age-4
0.60
0.71
0.56
0.27
-0.36
0.26
-0.58
age-3
0.78
0.84
0.69
0.76
-0.26
0.27
-0.14
0.33
age-2
0.81
0.53
0.62
0.72
0.17
0.49
0.05
0.82
0.94
age-1
0.53
0.72
0.49
0.69
0.08
0.78
0.59
-0.96
0.84
-1.00

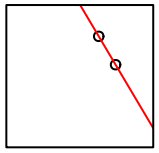

Index 2 Predicted
age-11+
age-10
0.94
age-9
0.95
0.81
age-8
0.92
0.92
0.59
age-7
0.94
0.78
0.85
0.40
age-6
0.91
0.78
0.62
0.72
0.23
age-5
0.93
0.85
0.57
0.43
0.62
0.08
age-4
0.99
0.90
0.83
0.51
0.19
0.51
0.10
age-3
0.97
0.96
0.85
0.79
0.55
0.16
0.75
0.16
age-2
0.96
0.83
0.88
0.69
0.70
0.58
0.57
0.89
1.00
age-1
0.96
0.90
0.73
0.84
0.51
0.59
0.76
-0.15
0.87
1.00

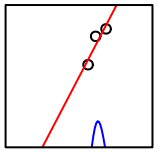
Index 3 Observed

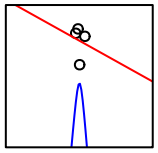


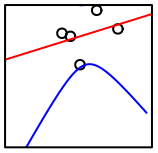
Index 3 Predicted
age-11+
age-10
0.94
age-9
0.95
0.82
age-8
0.95
0.85
0.65
age-7
0.96
0.87
0.74
0.53
age-6
0.96
0.87
0.73
0.59
0.34
age-5
0.95
0.87
0.77
0.65
0.55
0.41
age-4
0.86
0.77
0.63
0.55
0.47
0.49
0.38
age-3
0.81
0.59
0.45
0.33
0.30
0.29
0.30
0.22
age-2
0.94
0.71
0.46
0.36
0.29
0.29
0.27
0.30
0.22
age-1
0.95
0.89
0.69
0.47
0.41
0.37
0.37
0.34
0.38
0.24

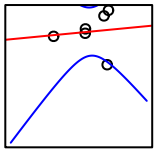
Index 4 Observed

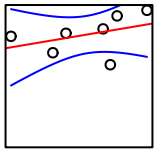


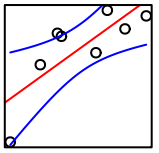


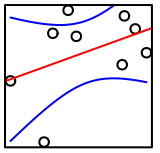


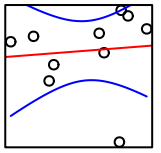


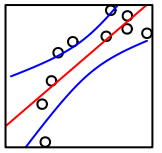




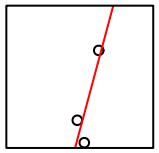


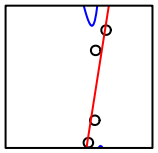


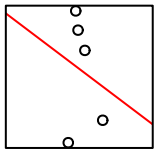


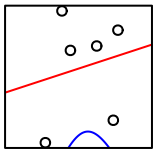


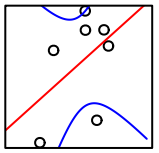
age-11+

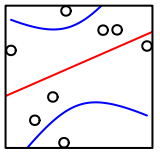


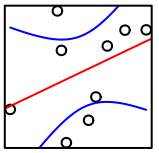


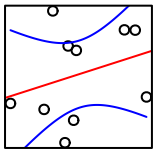


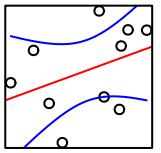






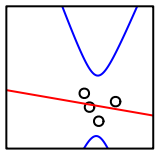


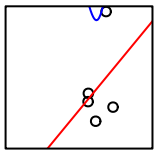


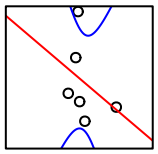


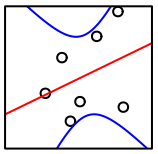
age-10

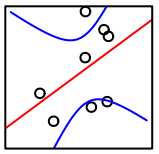
0.80

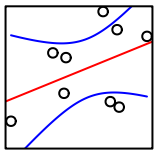


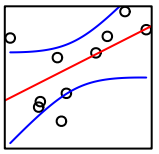


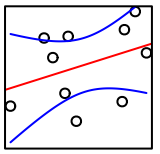








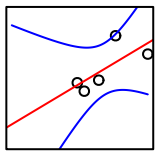


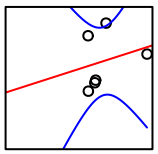


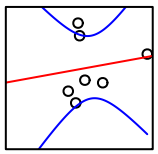
age-9

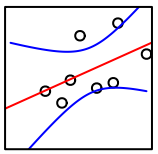
0.39

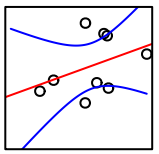
0.09

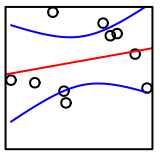


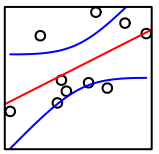










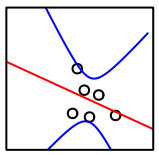


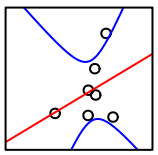
age-8

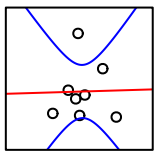
0.38

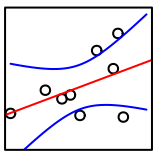
0.30

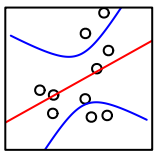
0.42

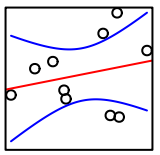












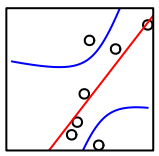
age-7

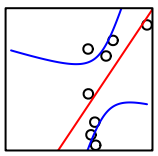
0.57

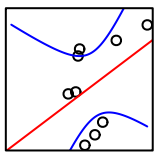
0.57

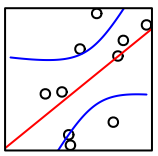
0.41

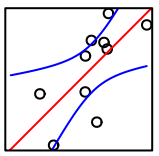
0.79











age-6

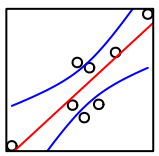
0.24

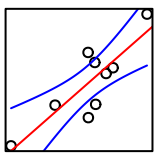
0.25

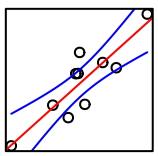
0.44

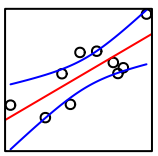
0.41

0.40









age-5

0.69

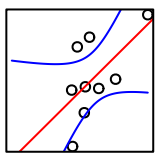
0.38

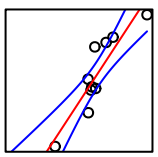
0.39

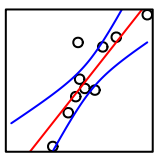
0.45

0.47

0.11







age-4

0.78

0.56

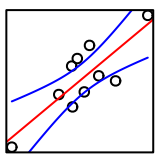
0.47

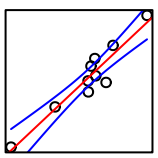
0.52

0.34

0.18

0.35





age-3

0.85

0.88

0.43

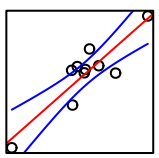
0.02

0.16

-0.35

-0.17

-0.13



age-2

0.95

0.90

0.84

0.64

0.36

0.26

0.31

0.86

0.92

age-1

0.90

0.83

0.61

0.85

0.70

-0.38

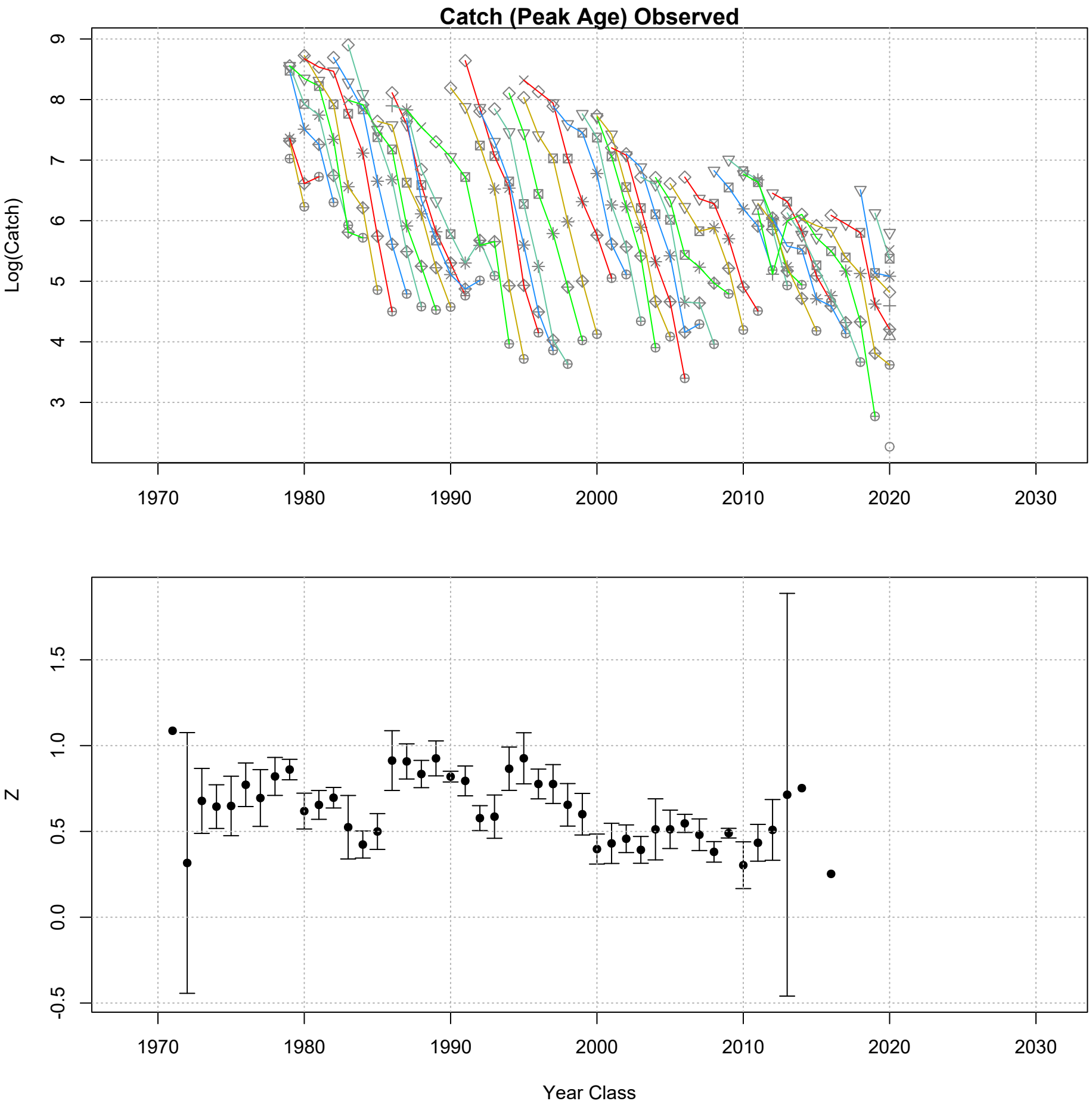
0.73

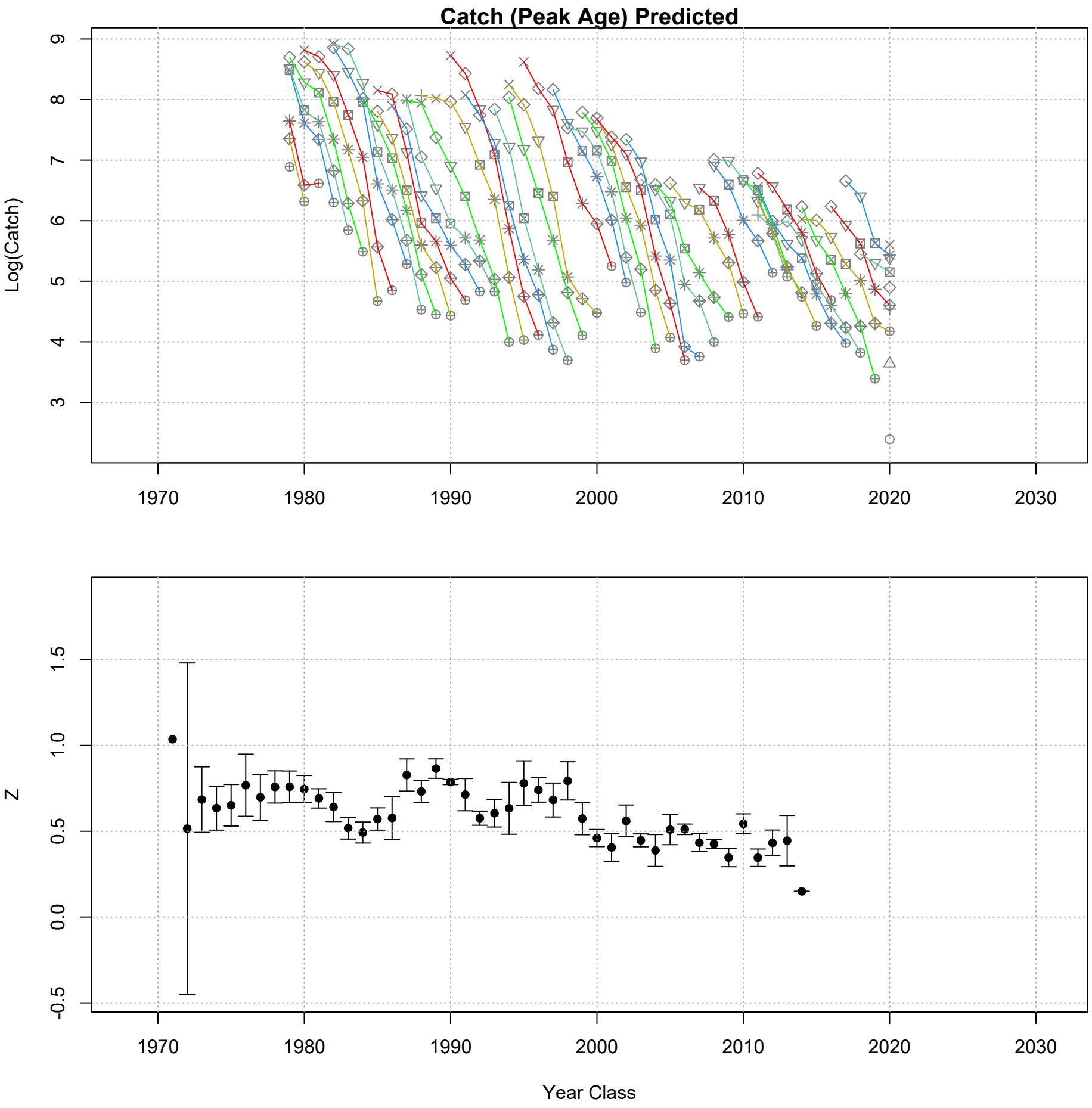
-0.20

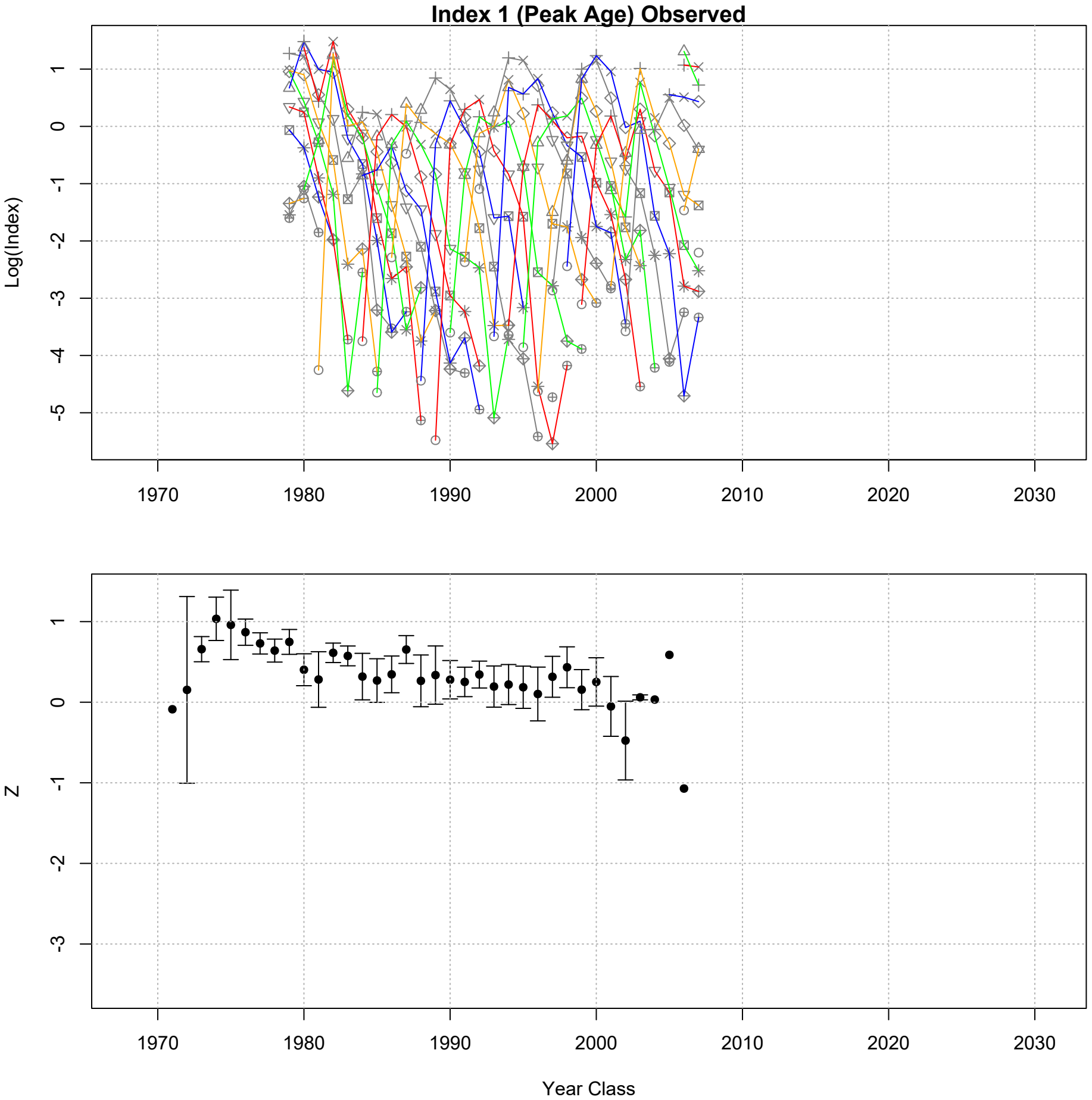
0.85

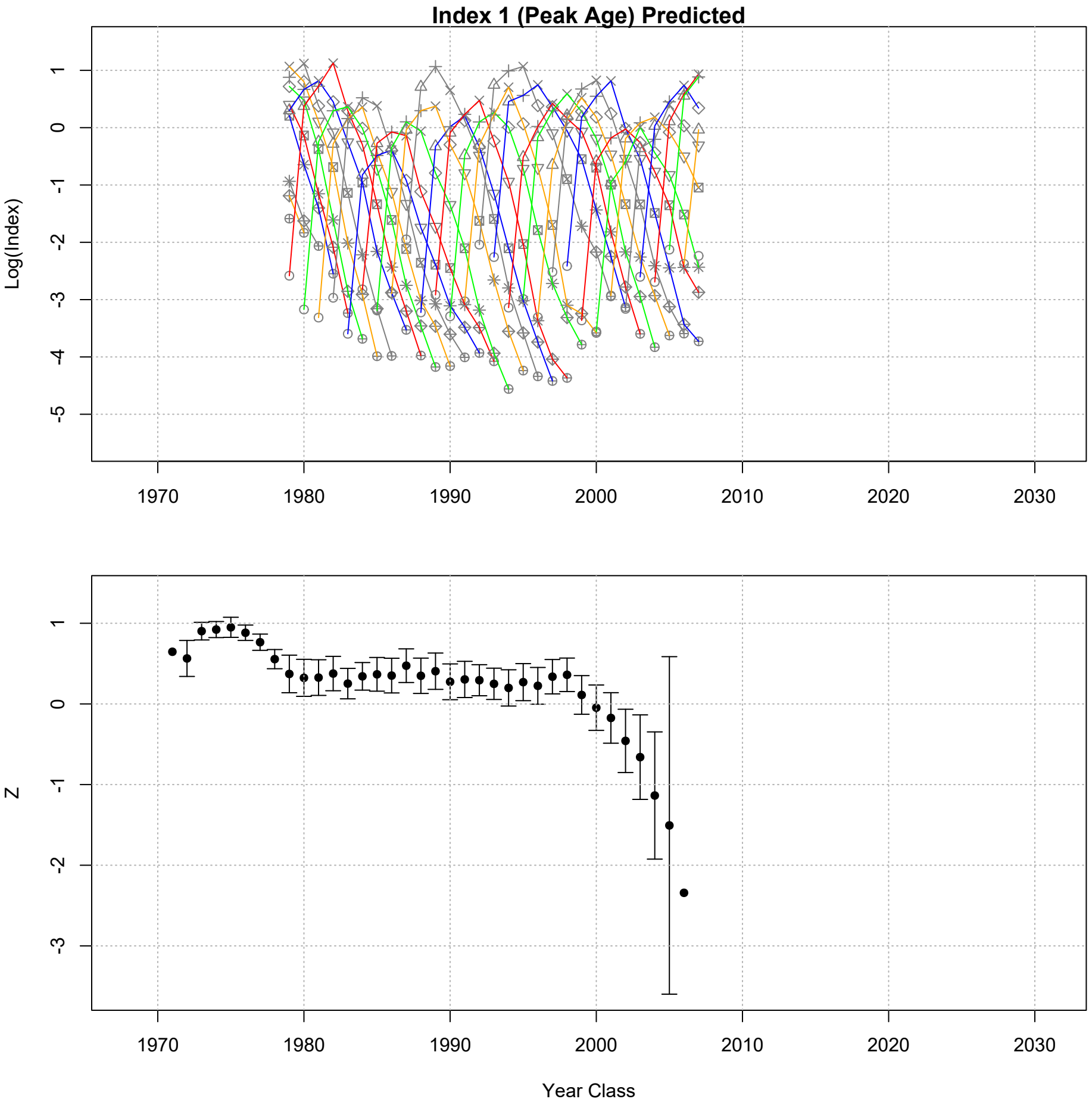
-1.00

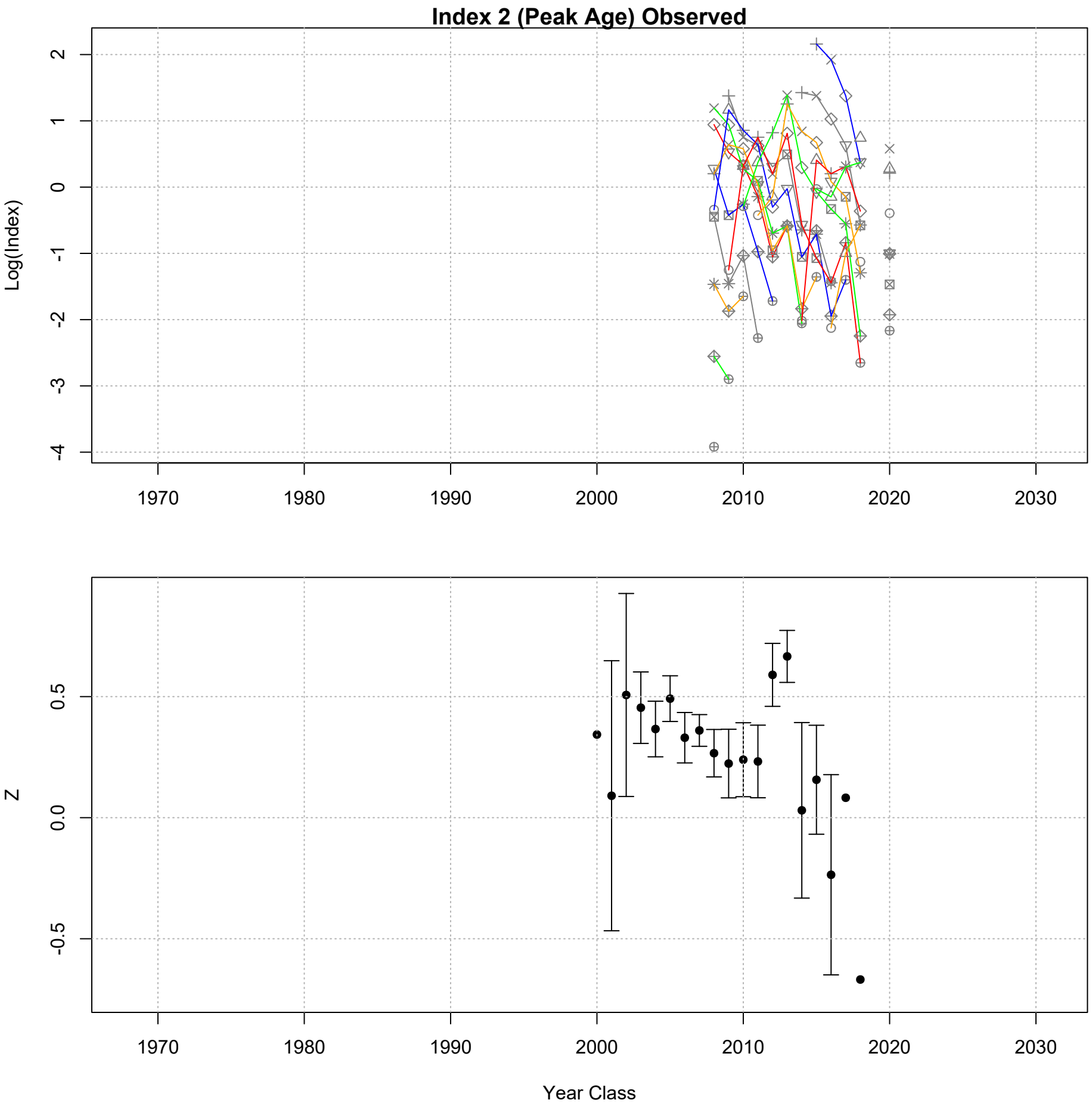
Index 4 Predicted
age-11+
age-10
0.94
age-9
0.95
0.82
age-8
0.92
0.93
0.61
age-7
0.94
0.78
0.85
0.43
age-6
0.91
0.77
0.60
0.73
0.23
age-5
0.93
0.83
0.54
0.42
0.59
0.07
age-4
0.99
0.91
0.82
0.49
0.17
0.49
0.03
age-3
0.97
0.96
0.87
0.80
0.53
0.16
0.71
0.18
age-2
0.96
0.83
0.88
0.71
0.70
0.57
0.53
0.89
1.00
age-1
0.97
0.90
0.74
0.84
0.54
0.58
0.76
-0.19
0.88
1.00

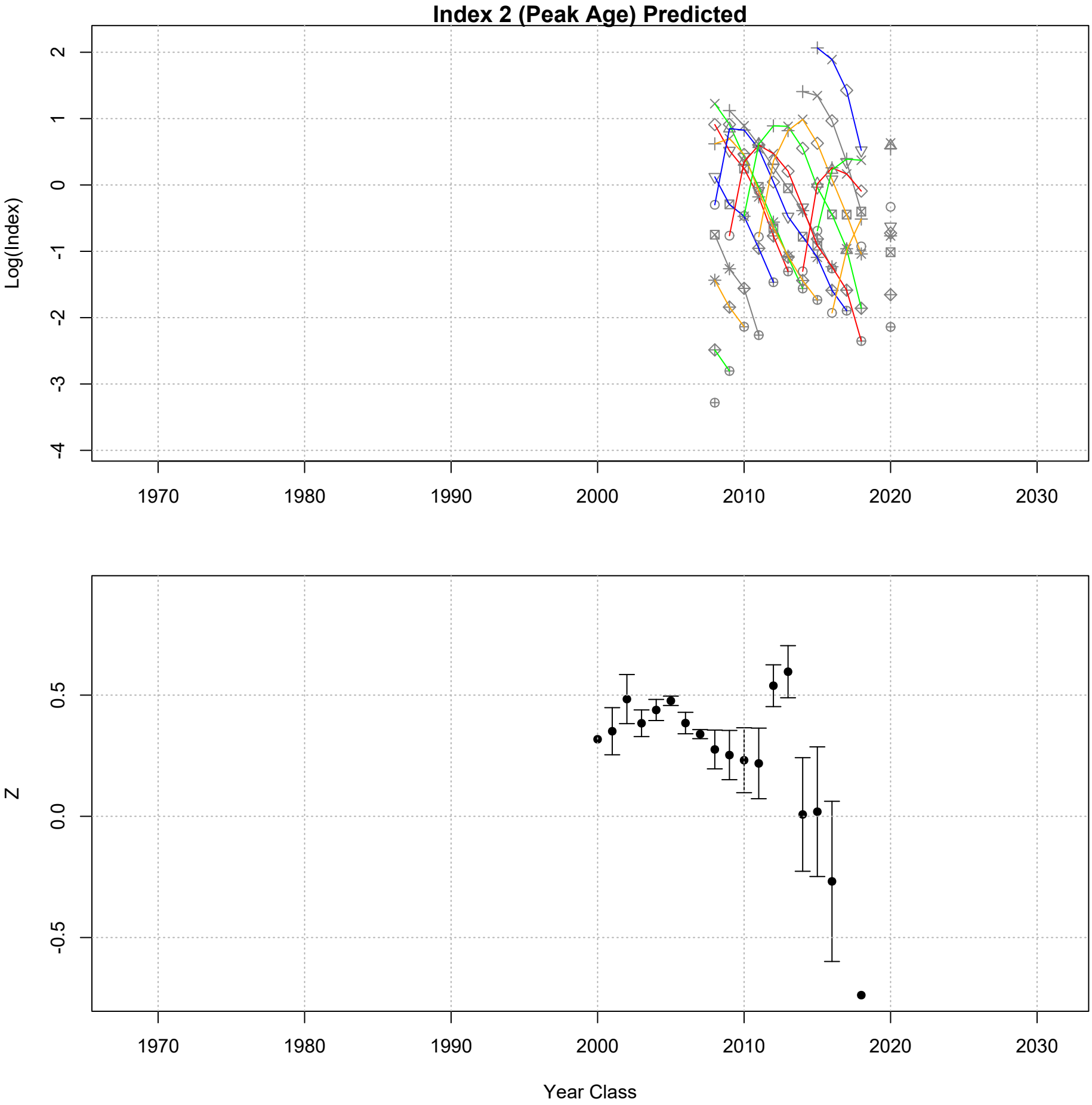

Catch (Peak Age) Observed
Log(Catch)
9
8
7
6
5
4
3
1970
1980
1990
2000
2010
2020
2030
Z
1.5
1.0
0.5
0.0
-0.5
1970
1980
1990
2000
2010
2020
2030
Year Class

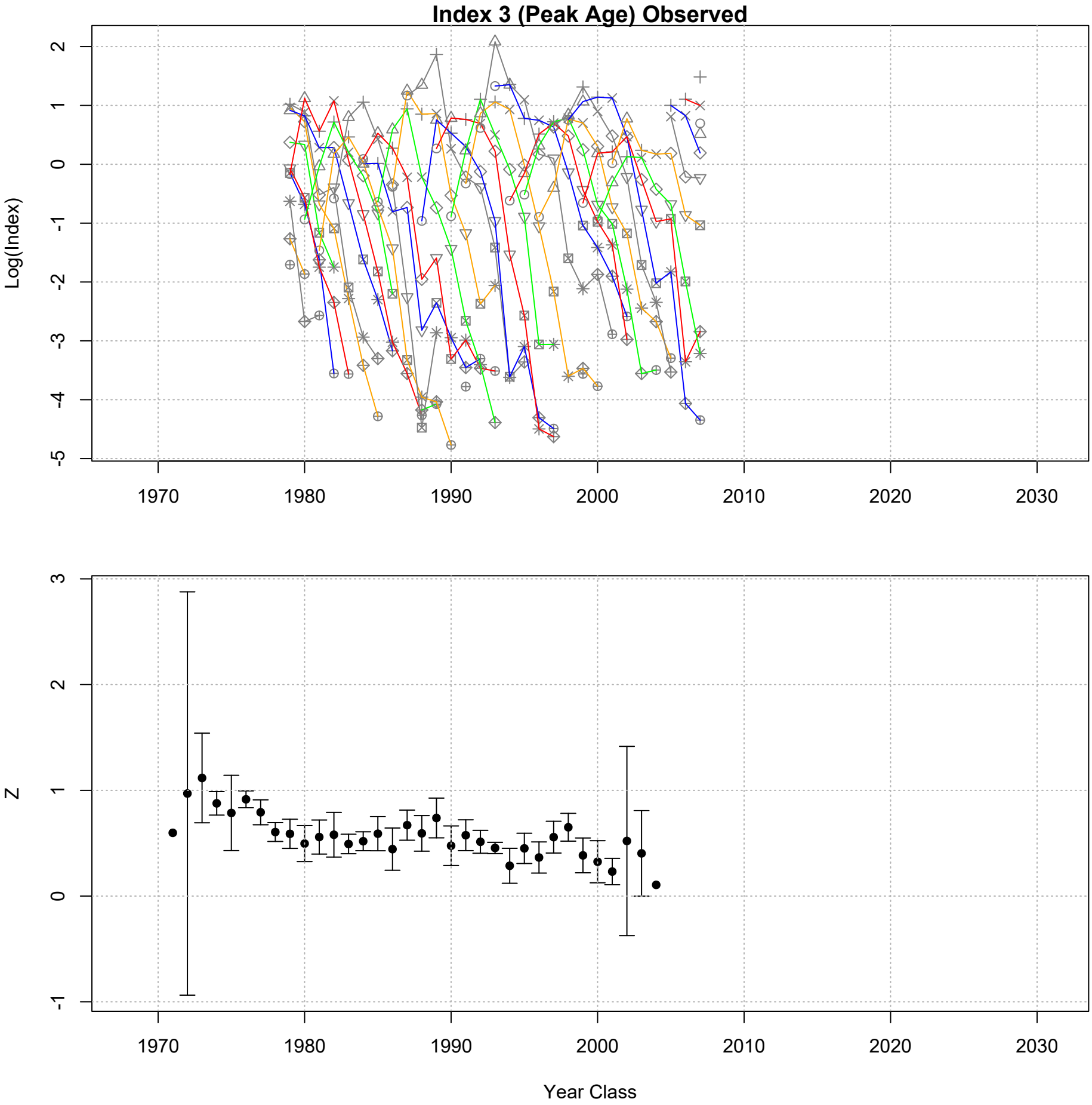

Catch (Peak Age) Predicted
Log(Catch)
3
4
5
6
7
8
9
1970
1980
1990
2000
2010
2020
2030
Z
-0.5
0.0
0.5
1.0
1.5
1970
1980
1990
2000
2010
2020
2030
Year Class

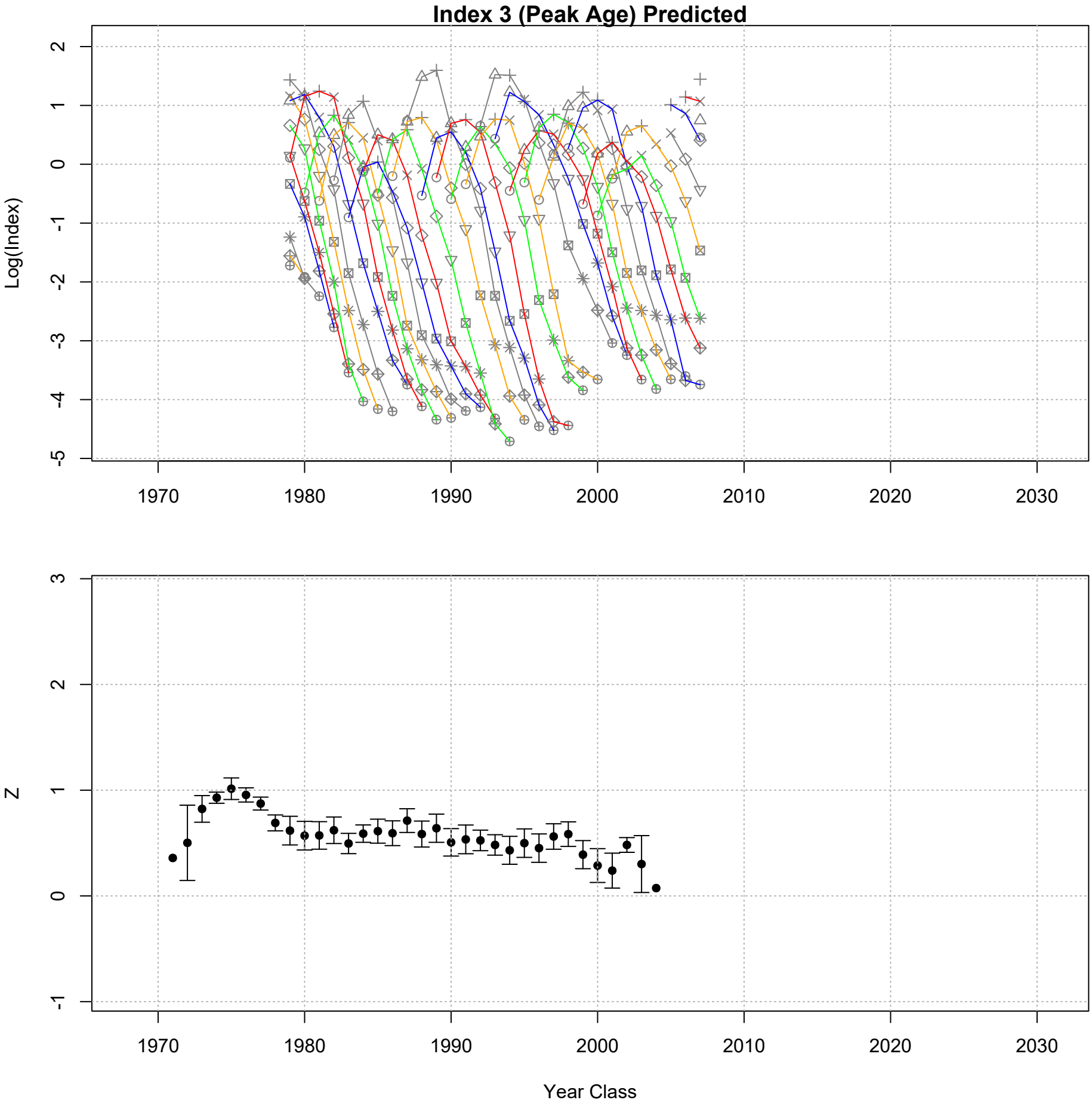

Index 1 (Peak Age) Observed
Log(Index)
1
0
-1
-2
-3
-4
-5
1970
1980
1990
2000
2010
2020
2030
Z
1
0
-1
-2
-3
1970
1980
1990
2000
2010
2020
2030
Year Class

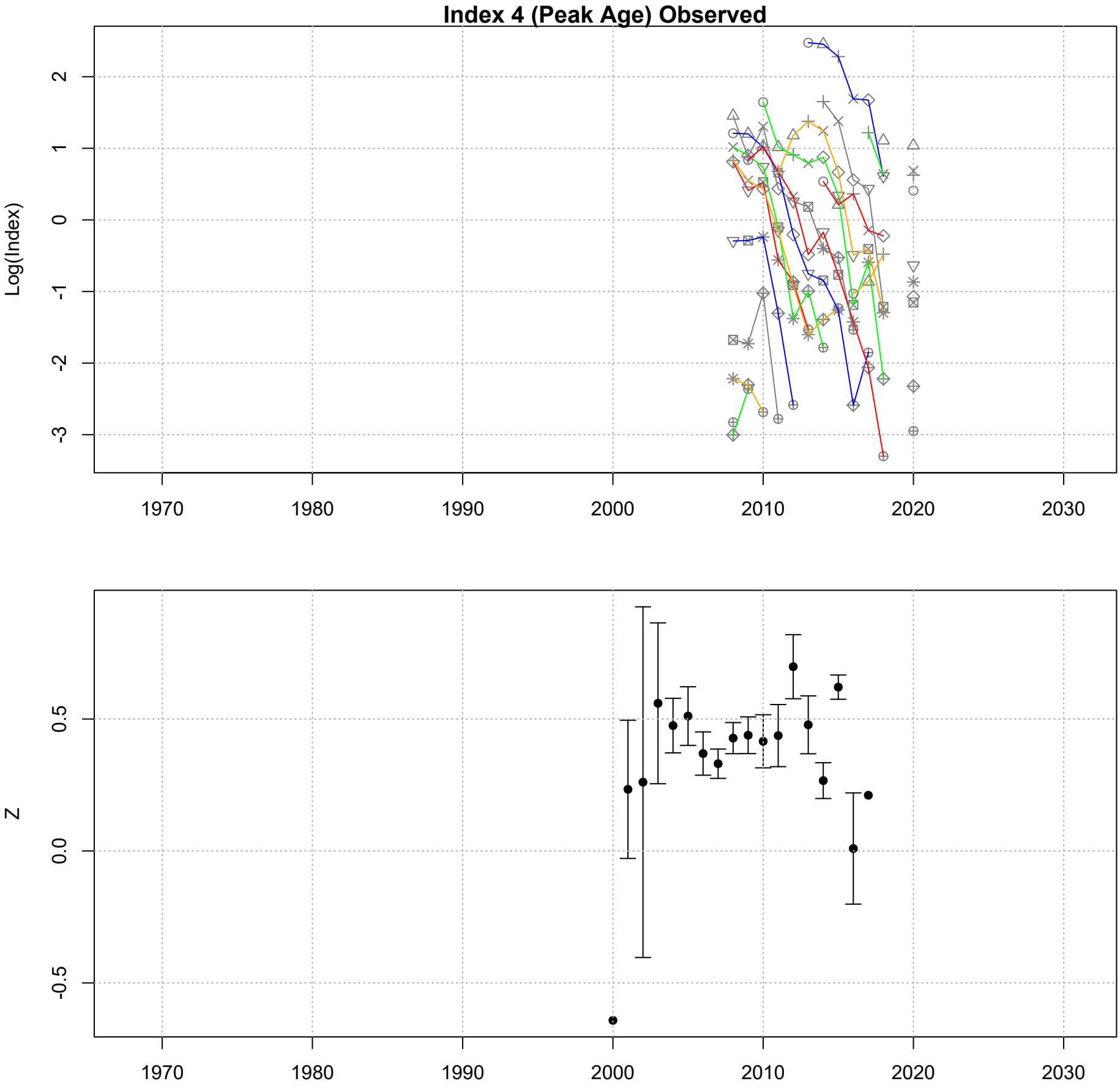

Index 1 (Peak Age) Predicted
Log(Index)
1
0
-1
-2
-3
-4
-5
1970
1980
1990
2000
2010
2020
2030
Z
1
0
-1
-2
-3
1970
1980
1990
2000
2010
2020
2030
Year Class

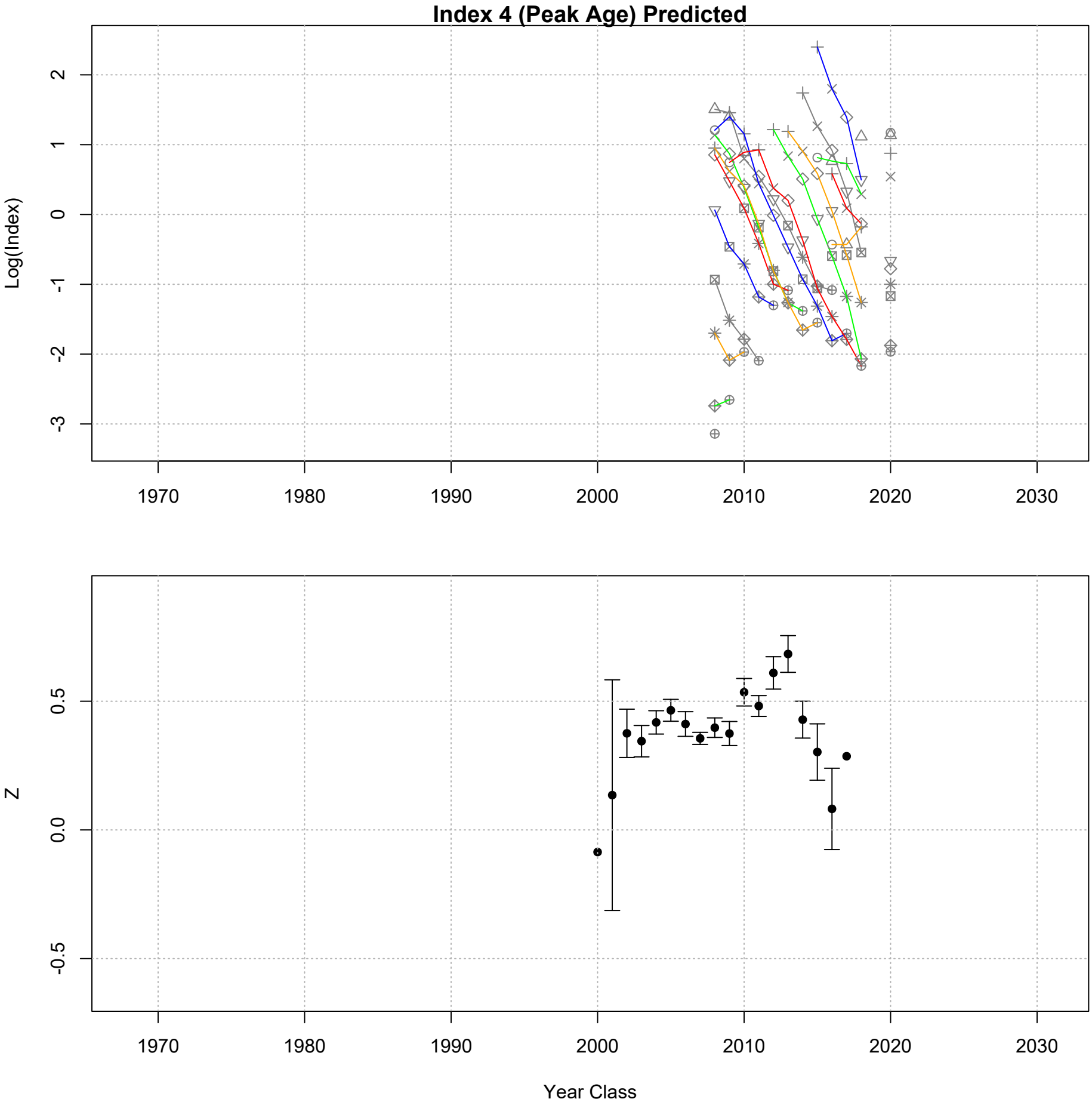

Index 2 (Peak Age) Observed
Log(Index)
2
1
0
-1
-2
-3
-4
1970
1980
1990
2000
2010
2020
2030
Z
0.5
0.0
-0.5
1970
1980
1990
2000
2010
2020
2030
Year Class


Index 2 (Peak Age) Predicted
Log(Index)
2
1
0
-1
-2
-3
-4
1970
1980
1990
2000
2010
2020
2030
Z
0.5
0.0
-0.5
Year Class


Index 3 (Peak Age) Observed
Log(Index)
2
1
0
-1
-2
-3
-4
-5
1970
1980
1990
2000
2010
2020
2030
Z
3
2
1
0
-1
1970
1980
1990
2000
2010
2020
2030
Year Class


Index 3 (Peak Age) Predicted
Log(Index)
2
1
0
-1
-2
-3
-4
-5
1970
1980
1990
2000
2010
2020
2030
Z
3
2
1
0
-1
1970
1980
1990
2000
2010
2020
2030
Year Class


Index 4 (Peak Age) Observed
Log(Index)
2
1
0
-1
-2
-3
1970
1980
1990
2000
2010
2020
2030
Z
0.5
0.0
-0.5
Year Class


Index 4 (Peak Age) Predicted
Log(Index)
2
1
0
-1
-2
-3
1970
1980
1990
2000
2010
2020
2030
Z
0.5
0.0
-0.5
Year Class