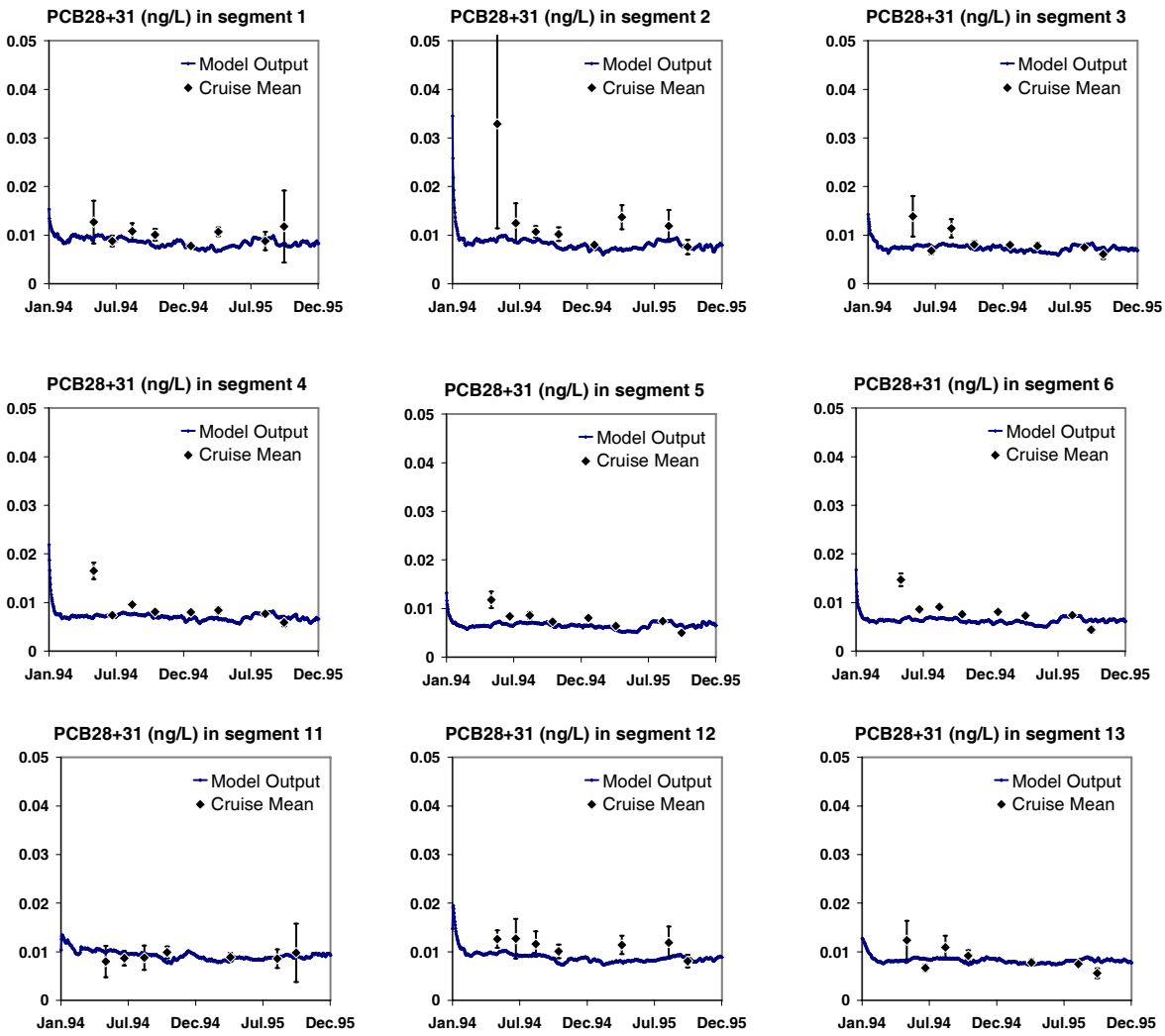
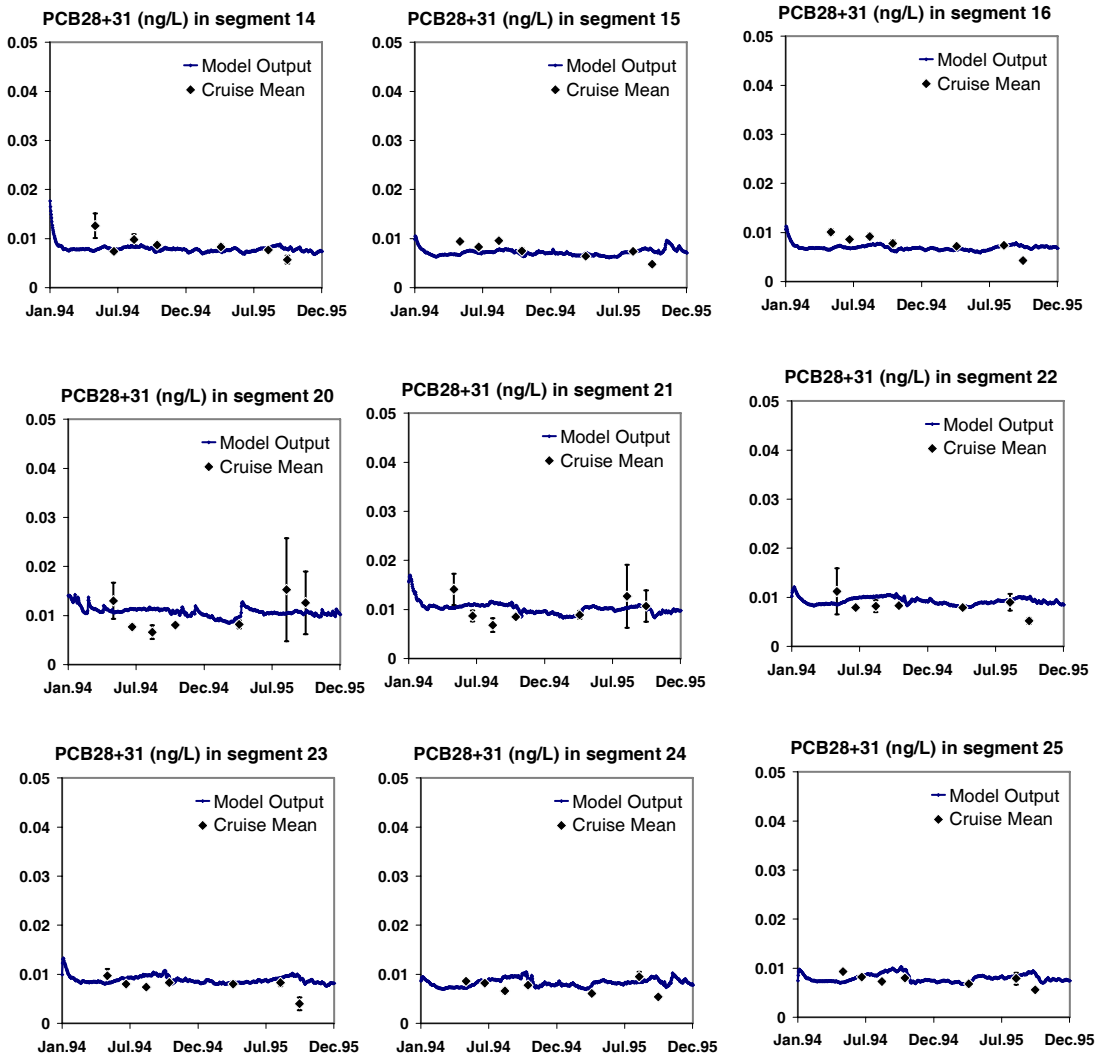
Appendix 4.5.3

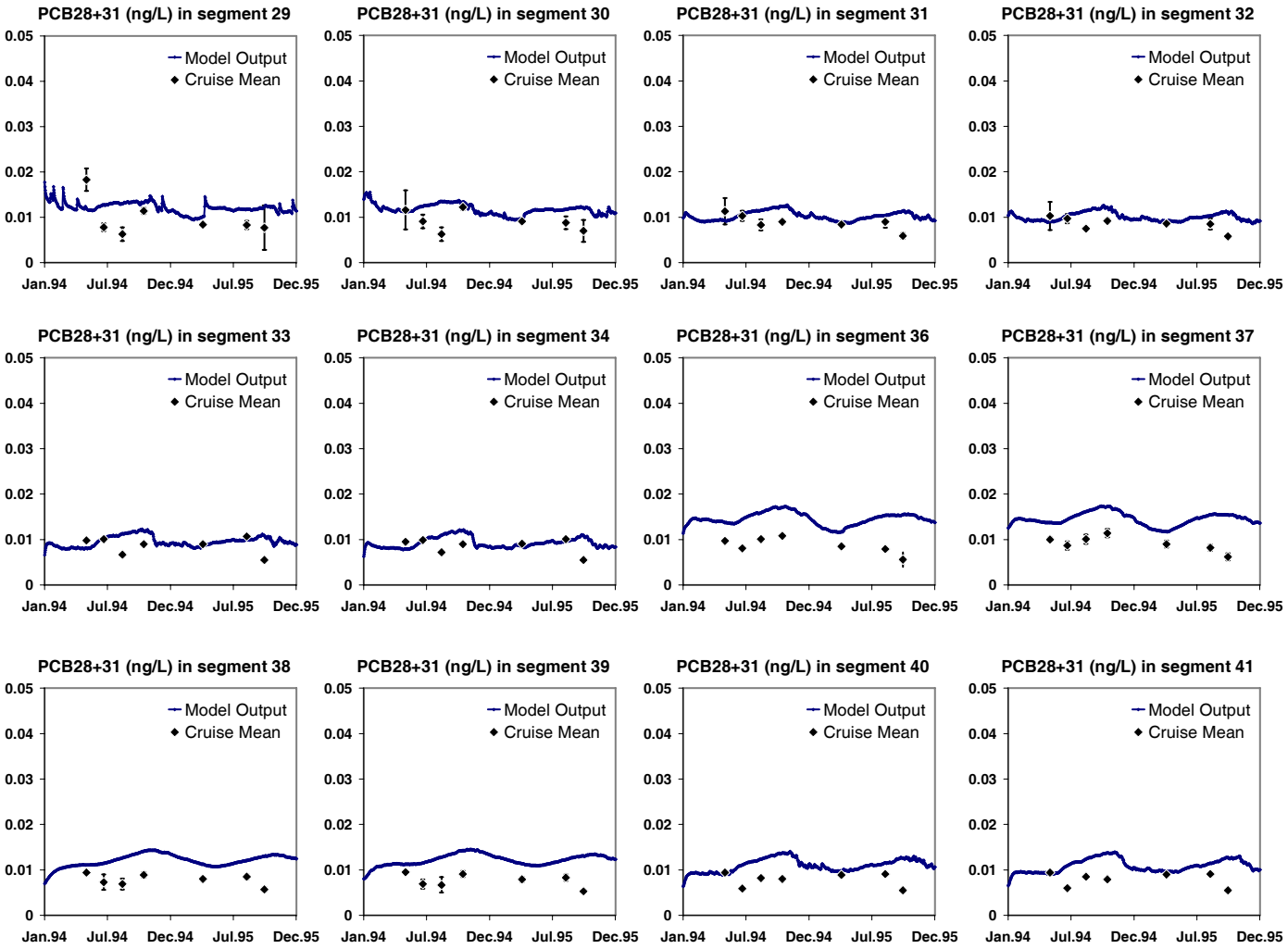
Calibration Results for PCB_{28+31} and ΣPCBs



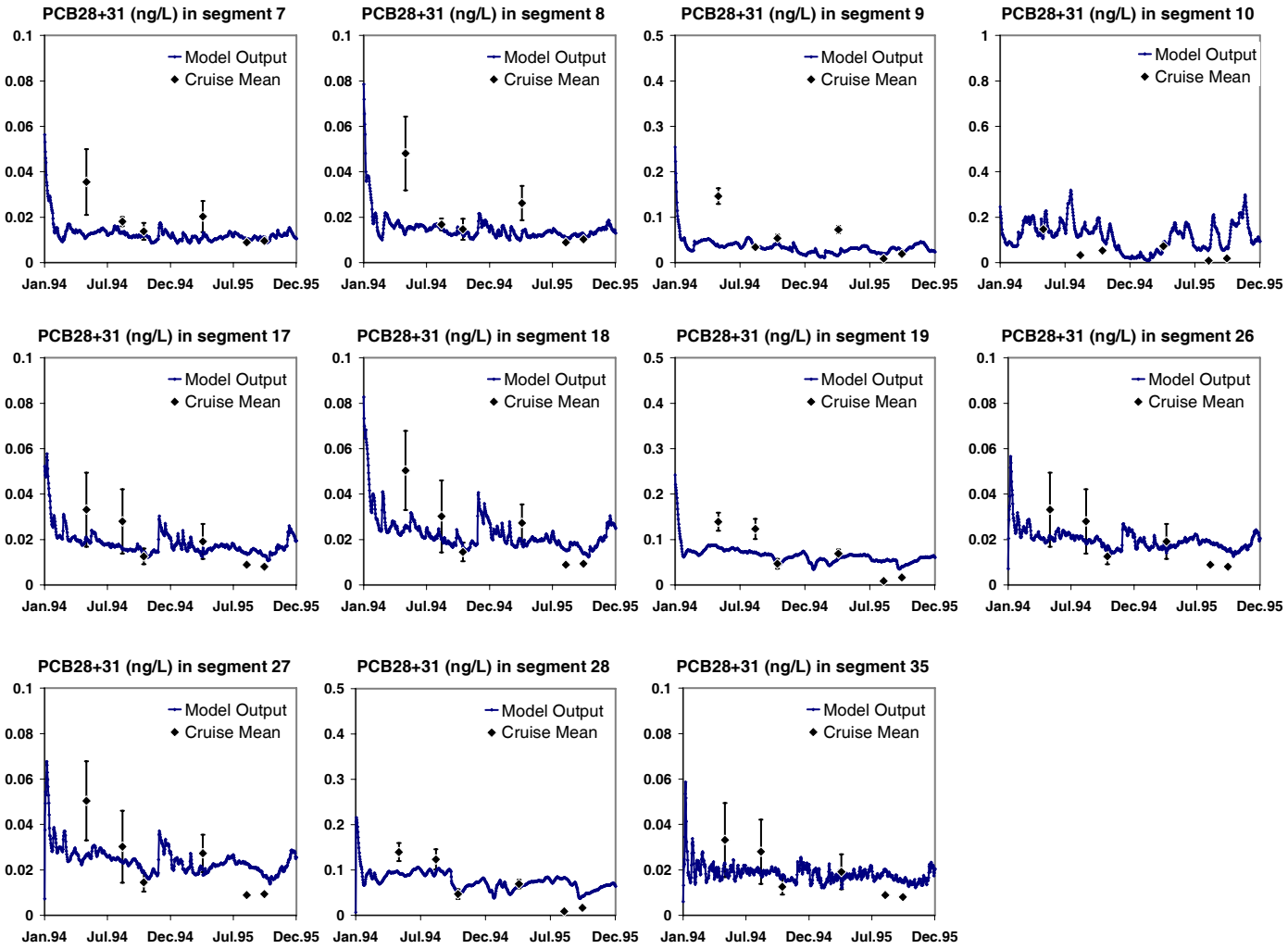
PCB_{28+31} in dissolved phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error



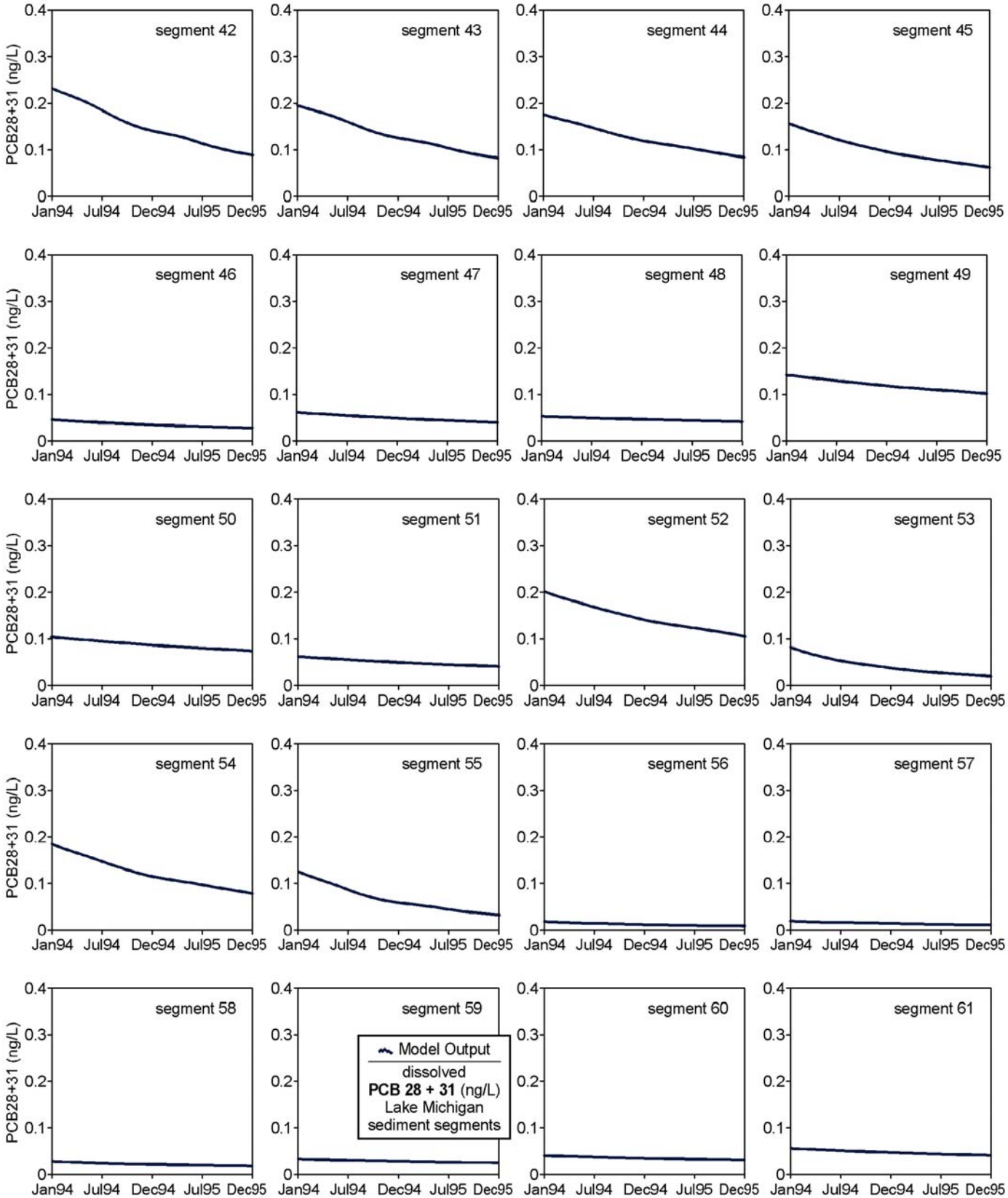
PCB_{28+31} in dissolved phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error

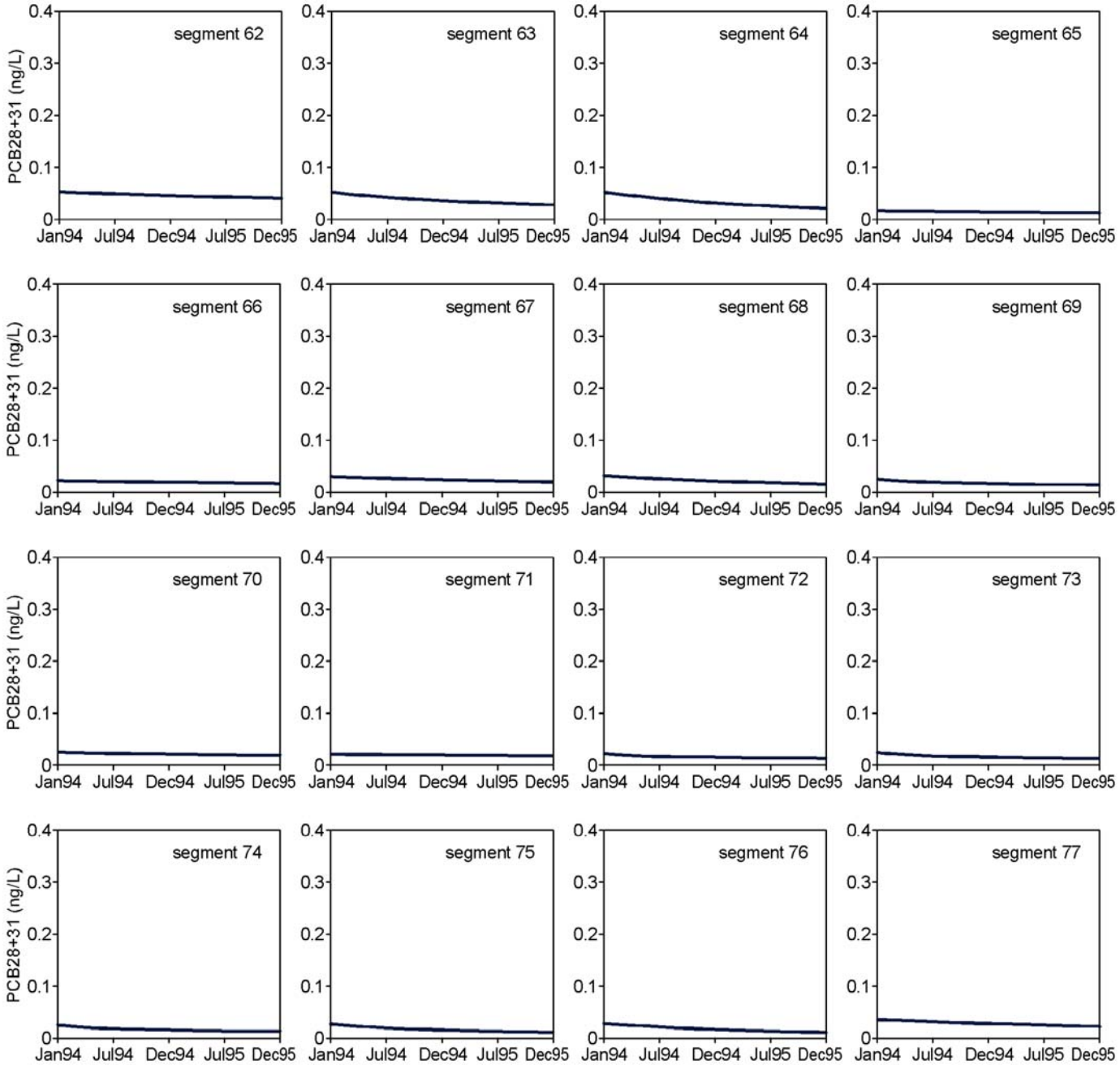


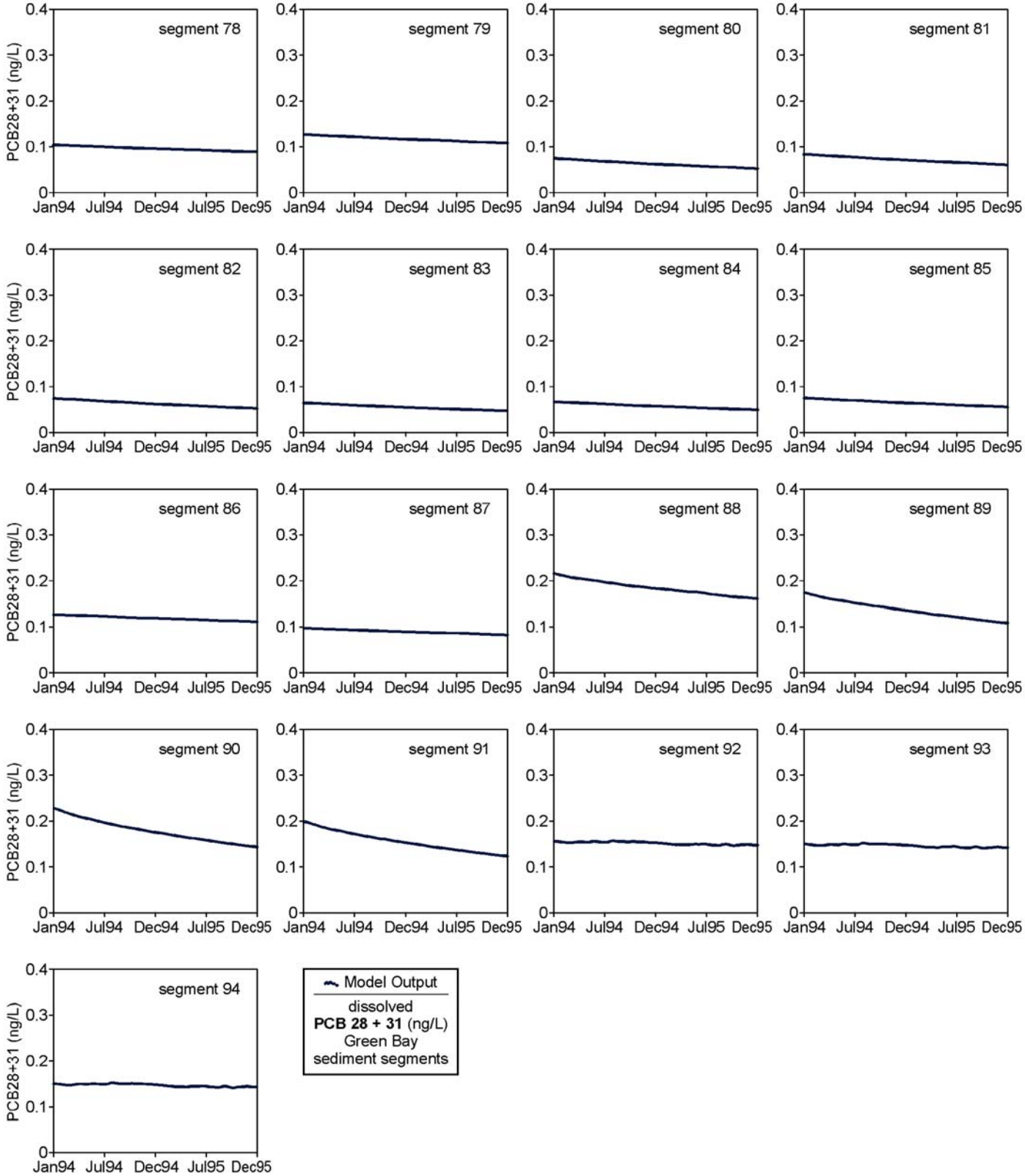
PCB_{28+31} in dissolved phase (ng/L)
Lake Michigan layers 4 and 5
30 m to bottom water segments
Error bars = standard error

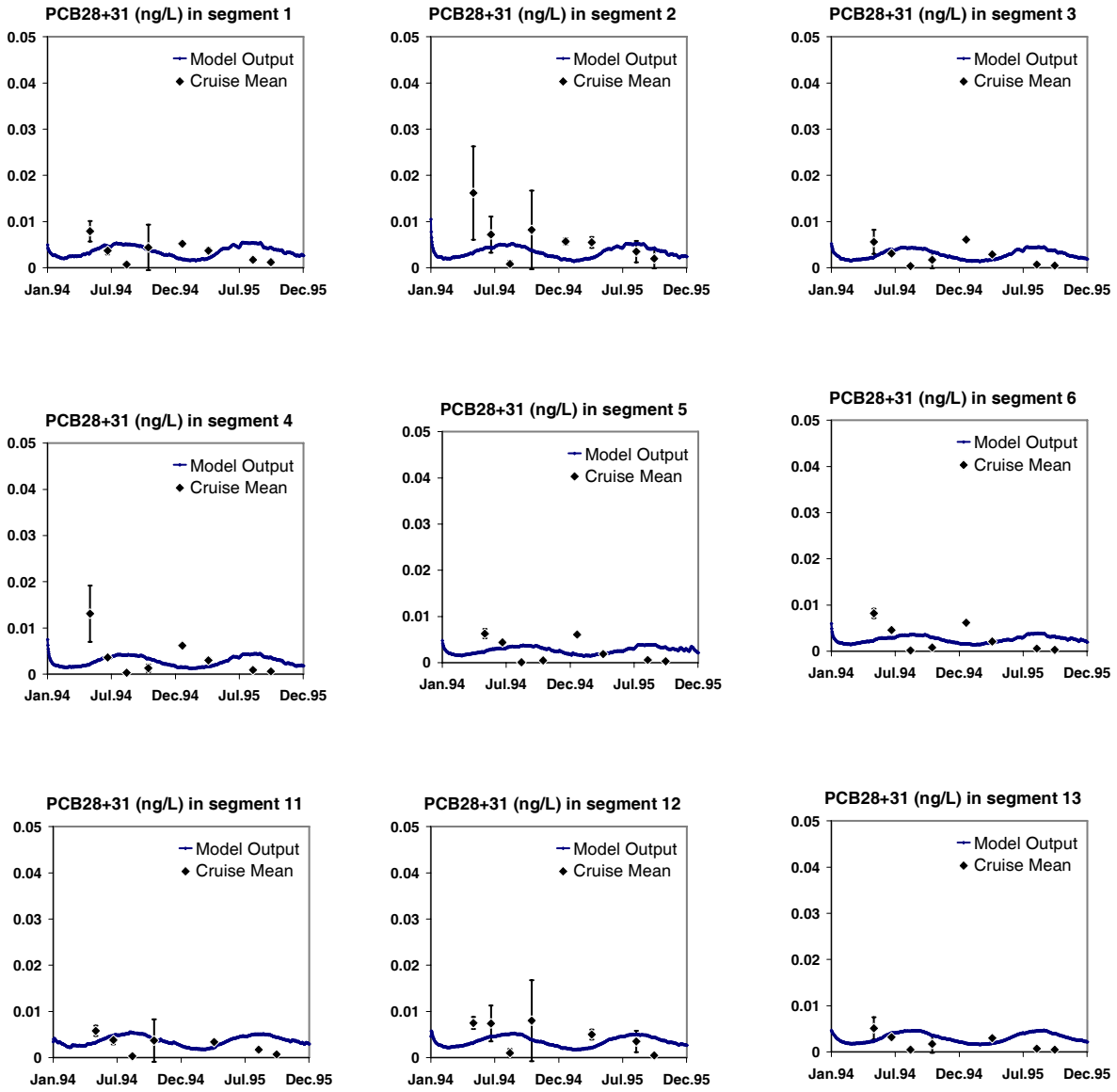


PCB_{28+31} in dissolved phase (ng/L)
Green Bay water segments
Error bars = standard error

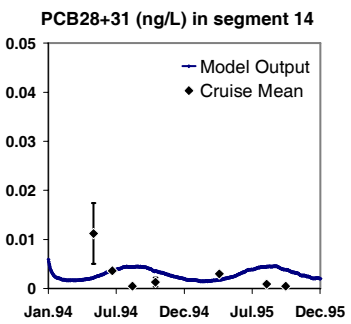

segment 42
segment 43
segment 44
segment 45
segment 46
segment 47
segment 48
segment 49
segment 50
segment 51
segment 52
segment 53
segment 54
segment 55
segment 56
segment 57
segment 58
segment 59
segment 60
segment 61
PCB28+31 (ng/L)
0
0.1
0.2
0.3
0.4
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
dissolved
PCB 28 + 31 (ng/L)
Lake Michigan
sediment segments

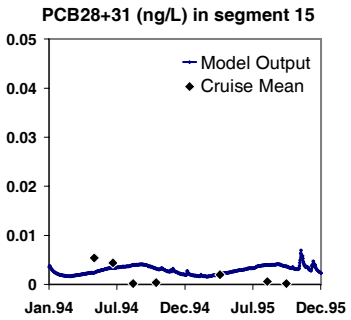

segment 62
segment 63
segment 64
segment 65
segment 66
segment 67
segment 68
segment 69
segment 70
segment 71
segment 72
segment 73
segment 74
segment 75
segment 76
segment 77
PCB28+31 (ng/L)
0
0.1
0.2
0.3
0.4
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
dissolved
PCB 28 + 31 (ng/L)
Lake Michigan
sediment segments

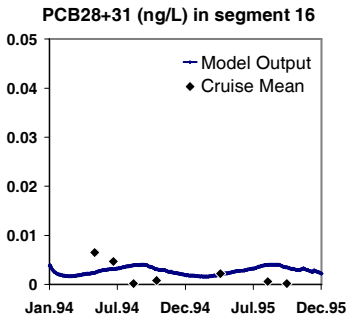

segment 78
segment 79
segment 80
segment 81
segment 82
segment 83
segment 84
segment 85
segment 86
segment 87
segment 88
segment 89
segment 90
segment 91
segment 92
segment 93
segment 94
PCB28+31 (ng/L)
0
0.1
0.2
0.3
0.4
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
dissolved
PCB 28 + 31 (ng/L)
Green Bay
sediment segments

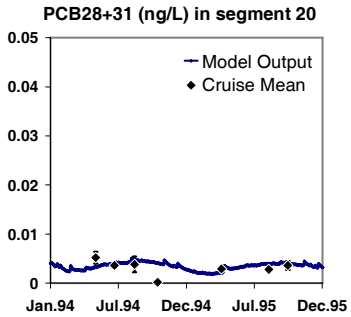


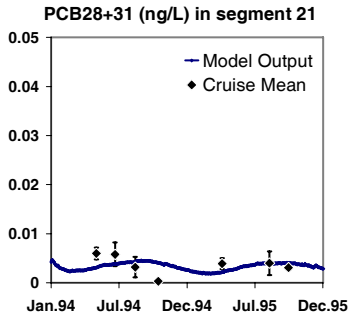
PCB_{28+31} in particulate phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error

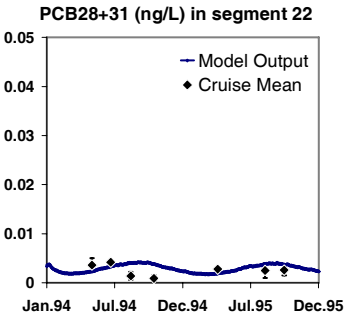


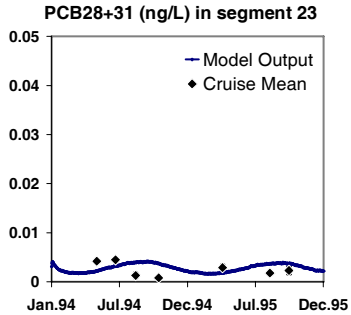


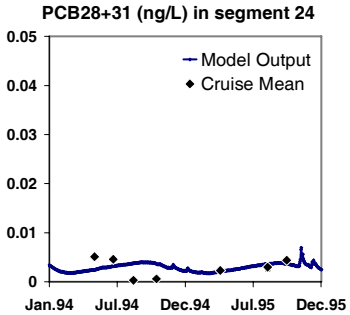


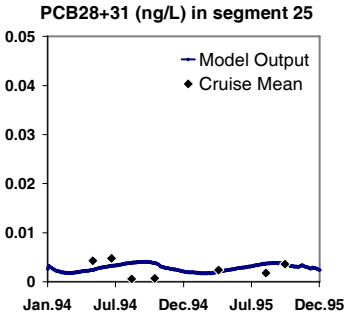




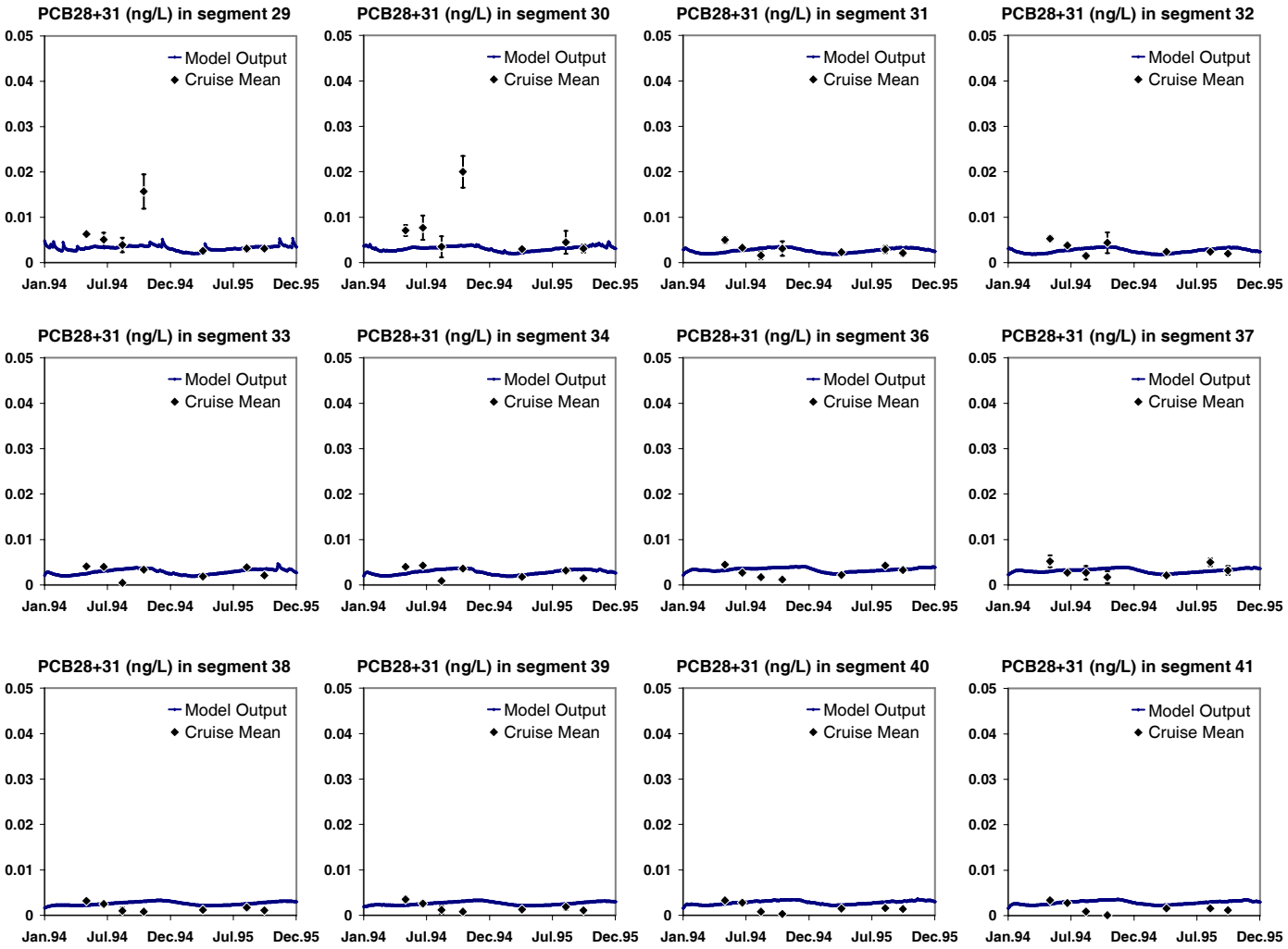




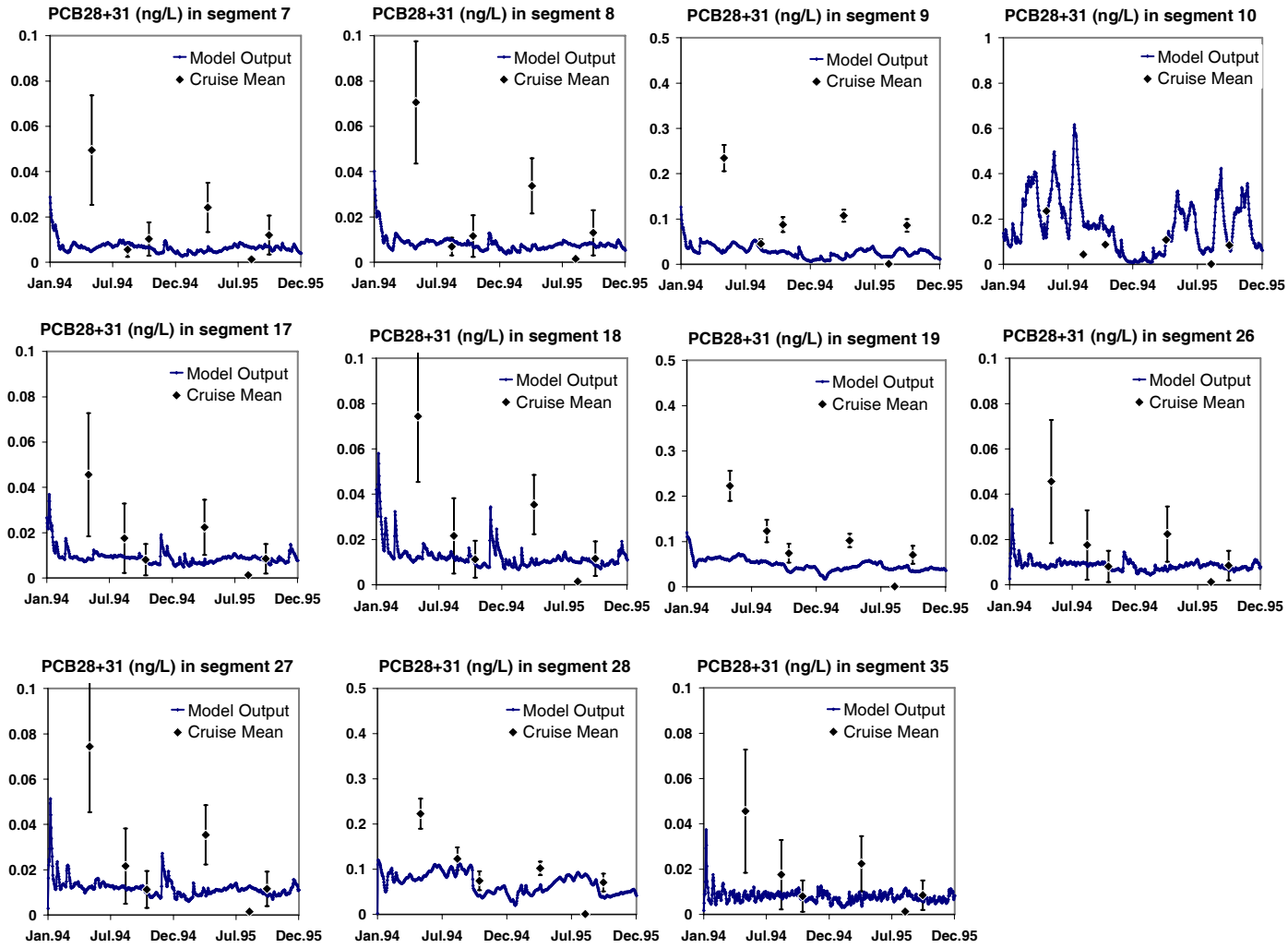




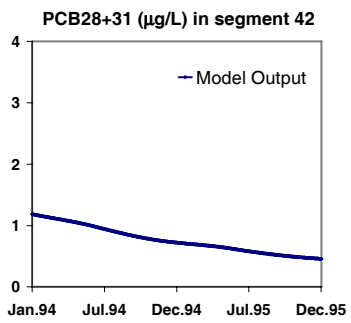
PCB_{28+31} in particulate phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error

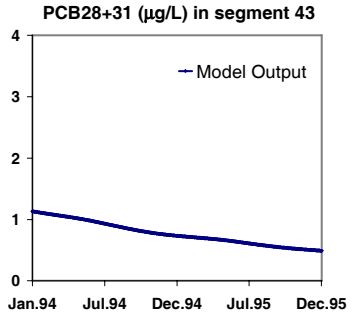


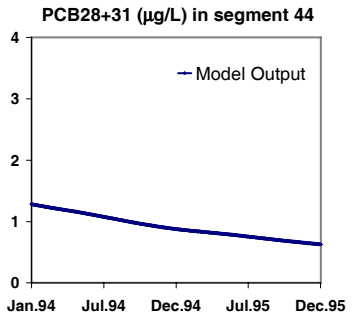
PCB_{28+31} in particulate phase (ng/L)
Lake Michigan layers 4 and 5
30 m to bottom water segments
Error bars = standard error

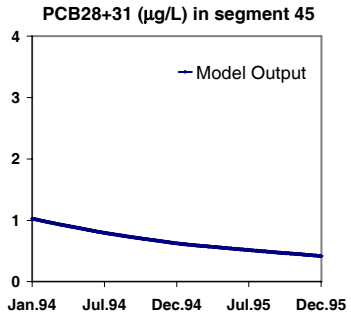


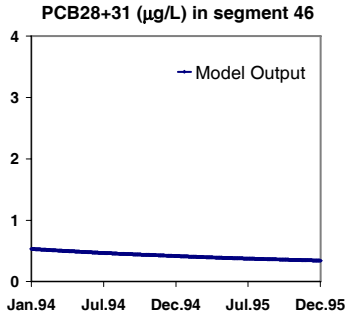
PCB_{28+31} in particulate phase (ng/L)
Green Bay water segments
Error bars = standard error

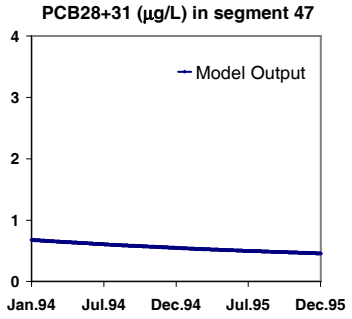


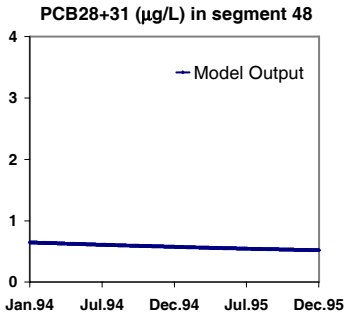


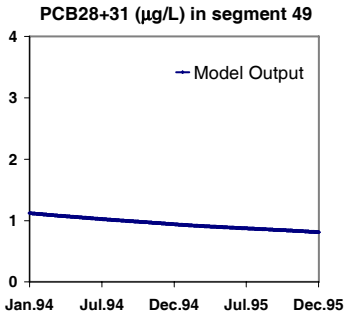


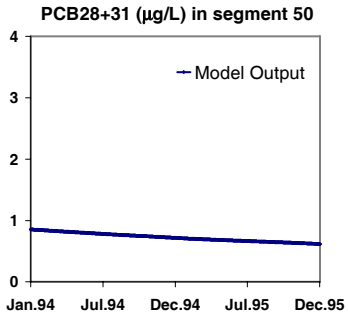




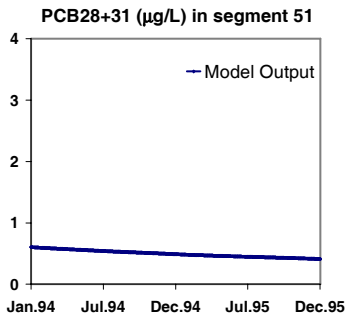


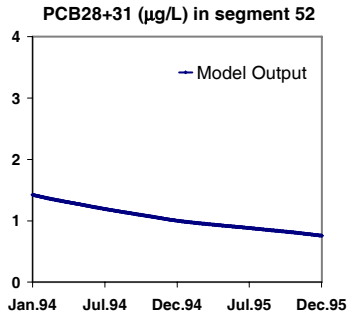


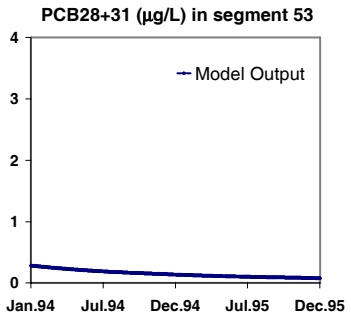


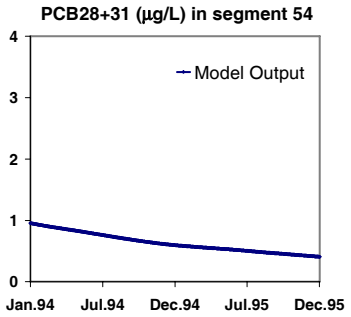


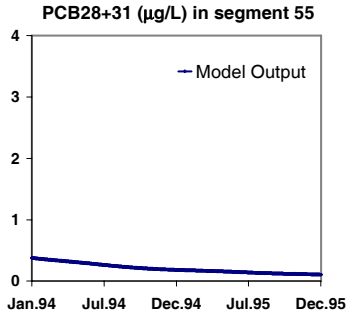
PCB_{28+31} in particulate phase (µg/L)
Lake Michigan sediment segments

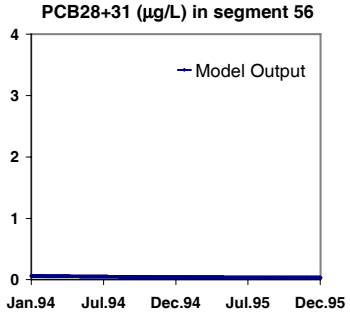


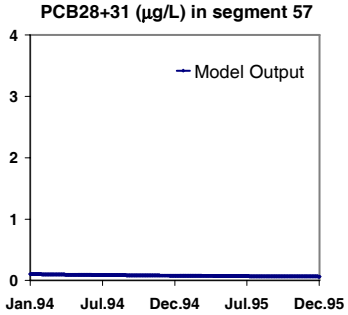


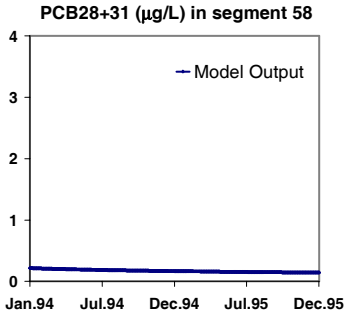


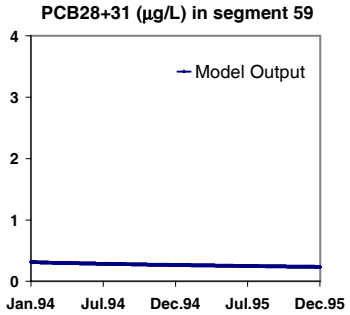


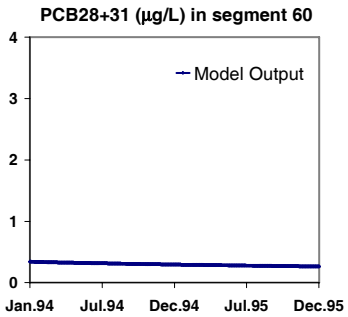


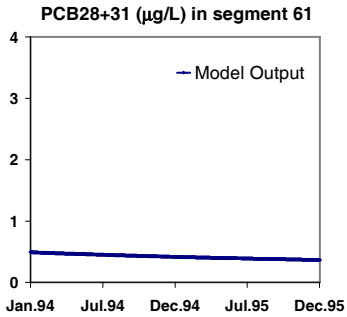




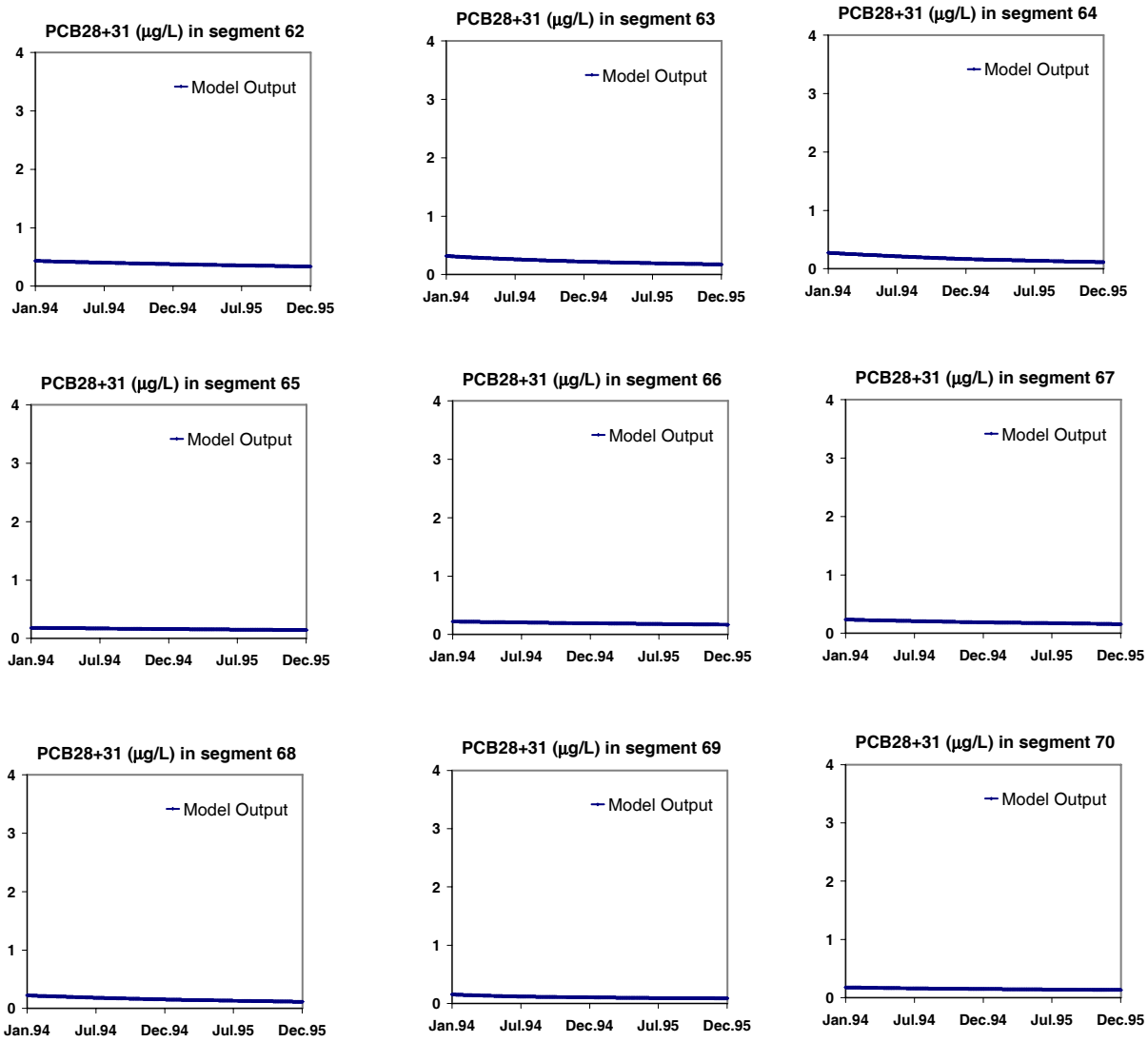




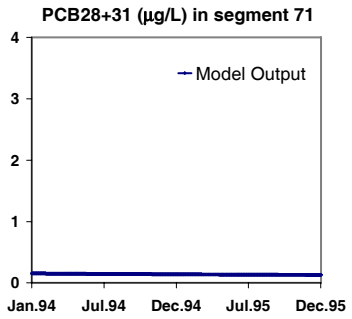


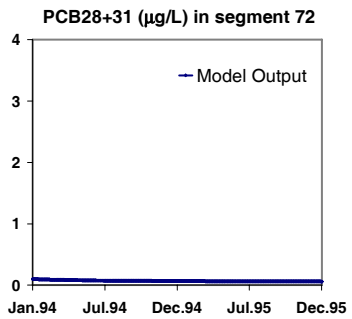


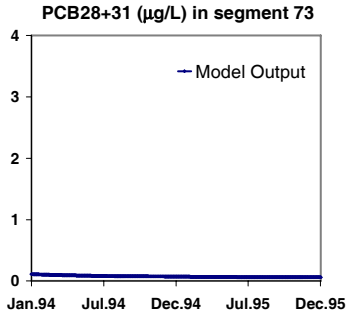
PCB_{28+31} in particulate phase (µg/L)
Lake Michigan sediment segments

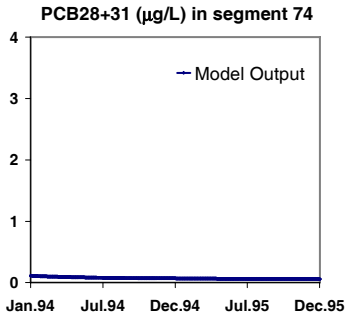


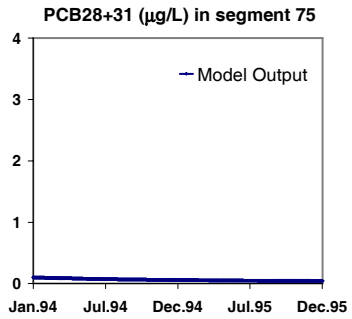
PCB_{28+31} in particulate phase (µg/L)
Lake Michigan sediment segments

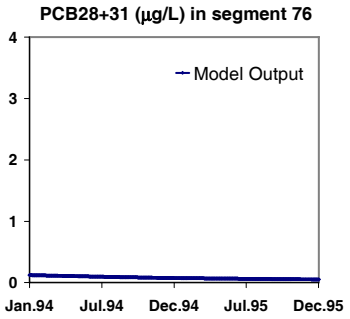


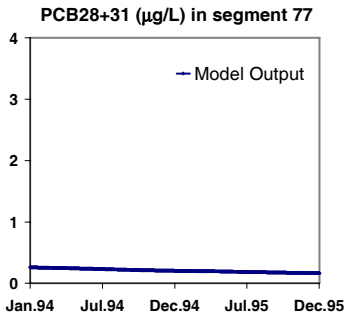




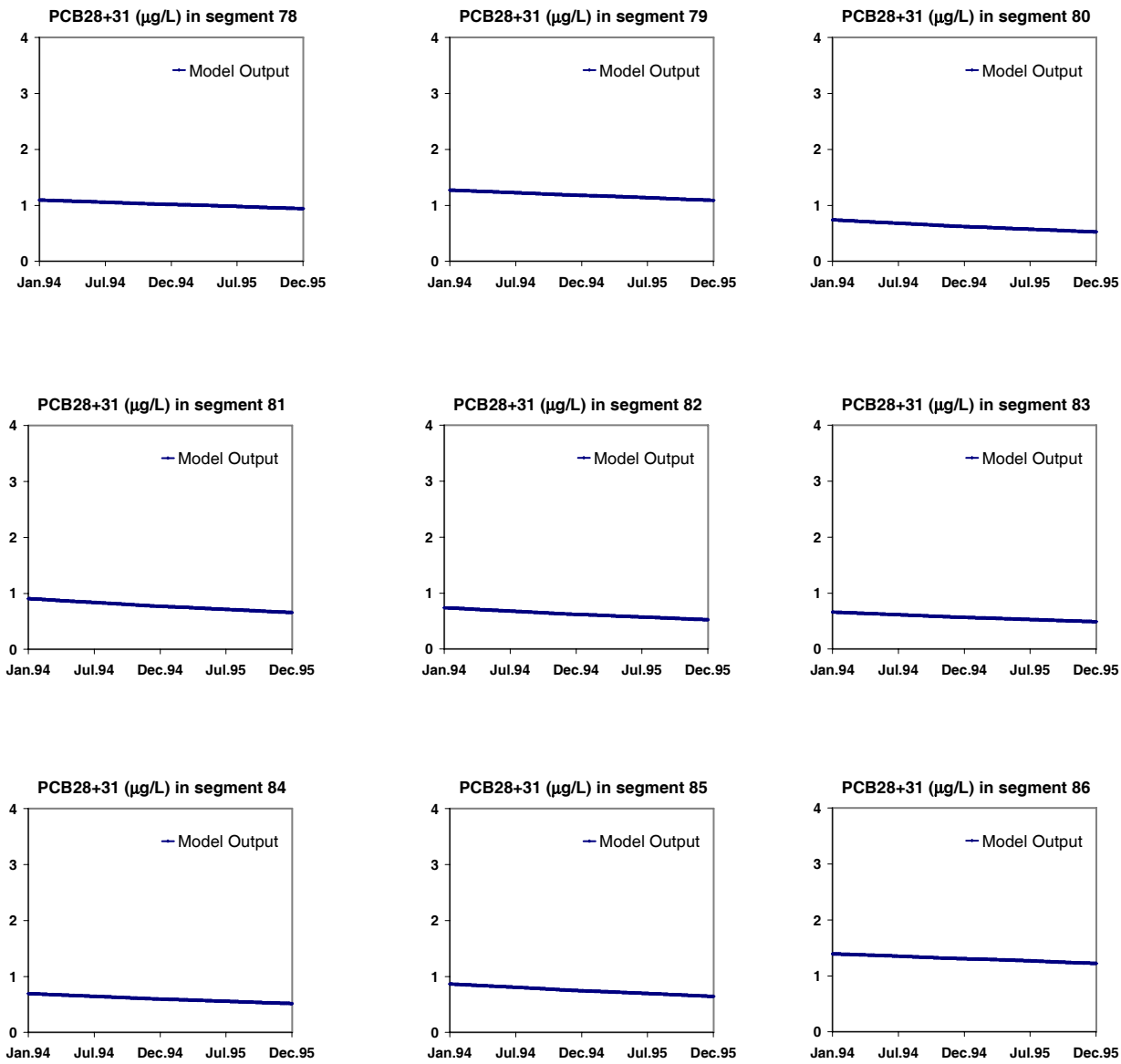




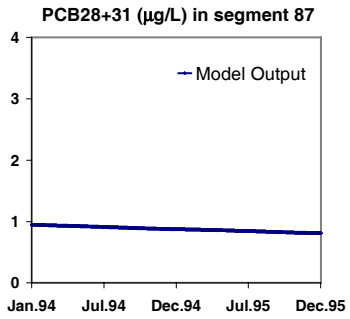


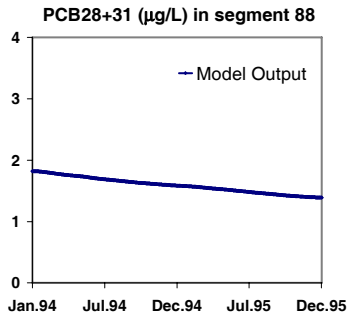


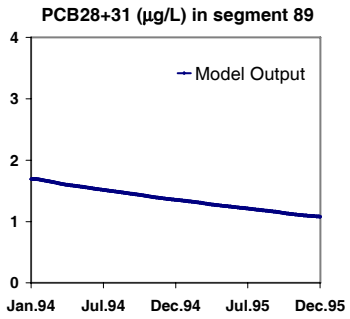
PCB_{28+31} in particulate phase (µg/L)
Lake Michigan sediment segments

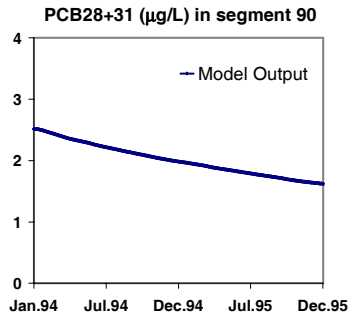


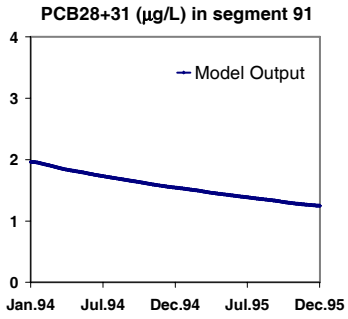
PCB_{28+31} in particulate phase (µg/L)
Green Bay sediment segments

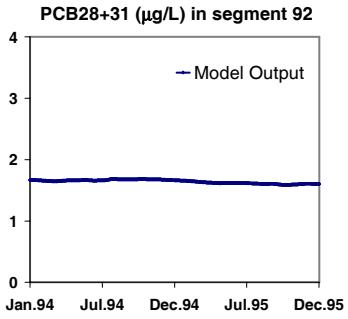


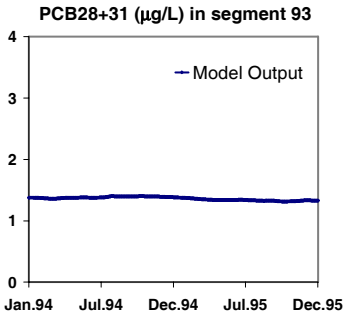


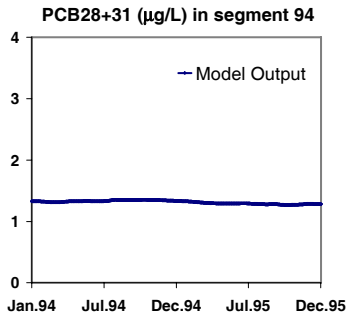




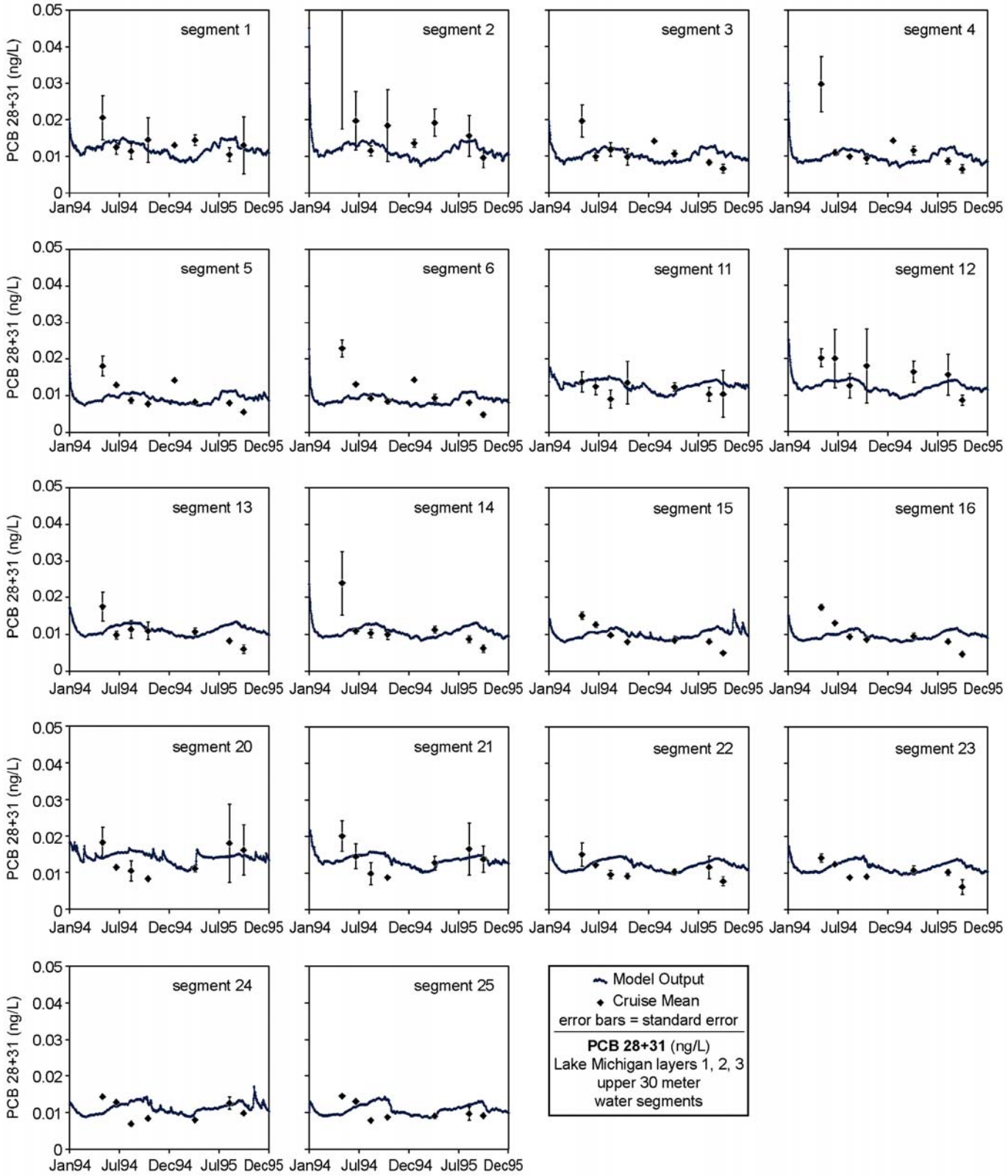


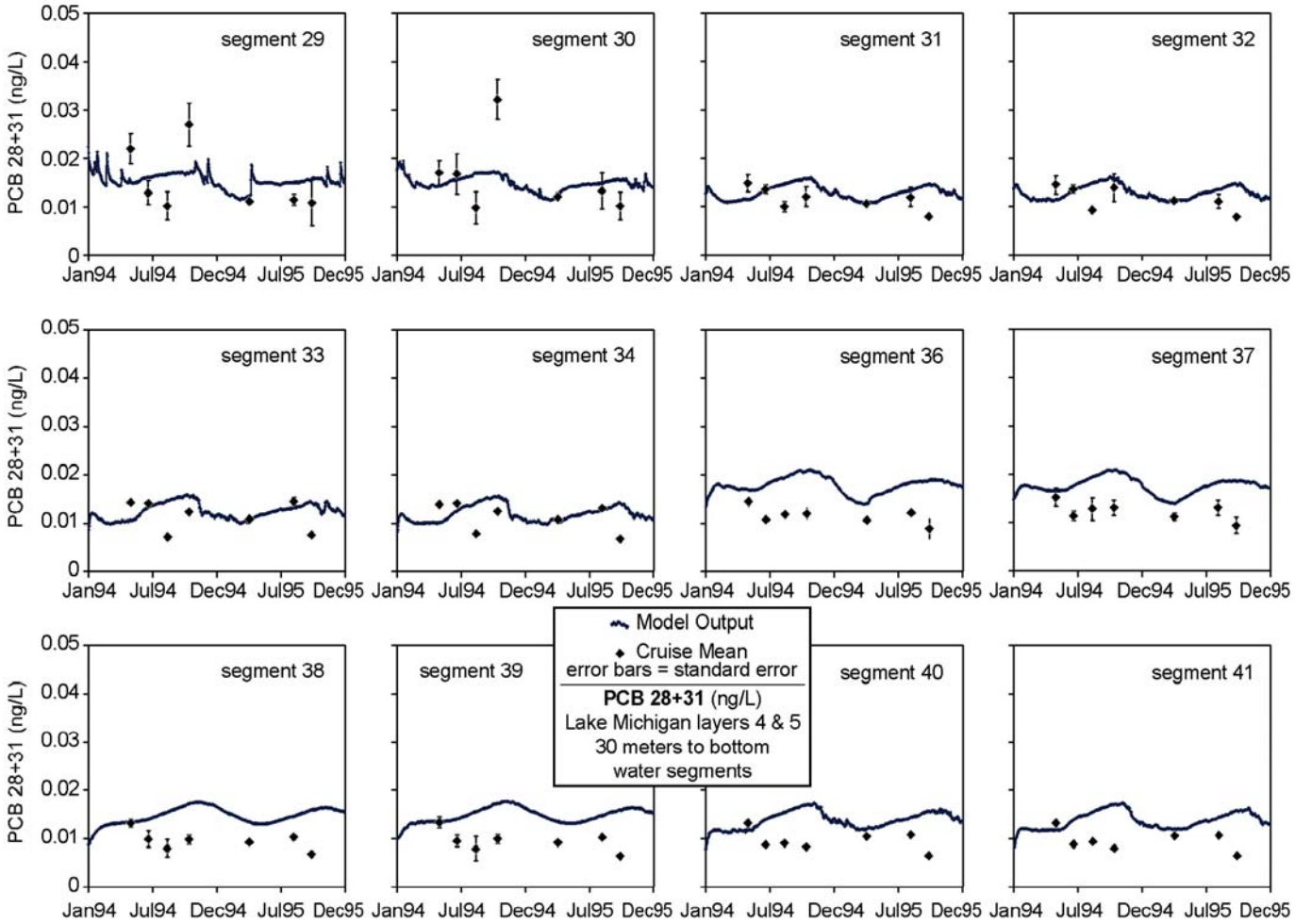


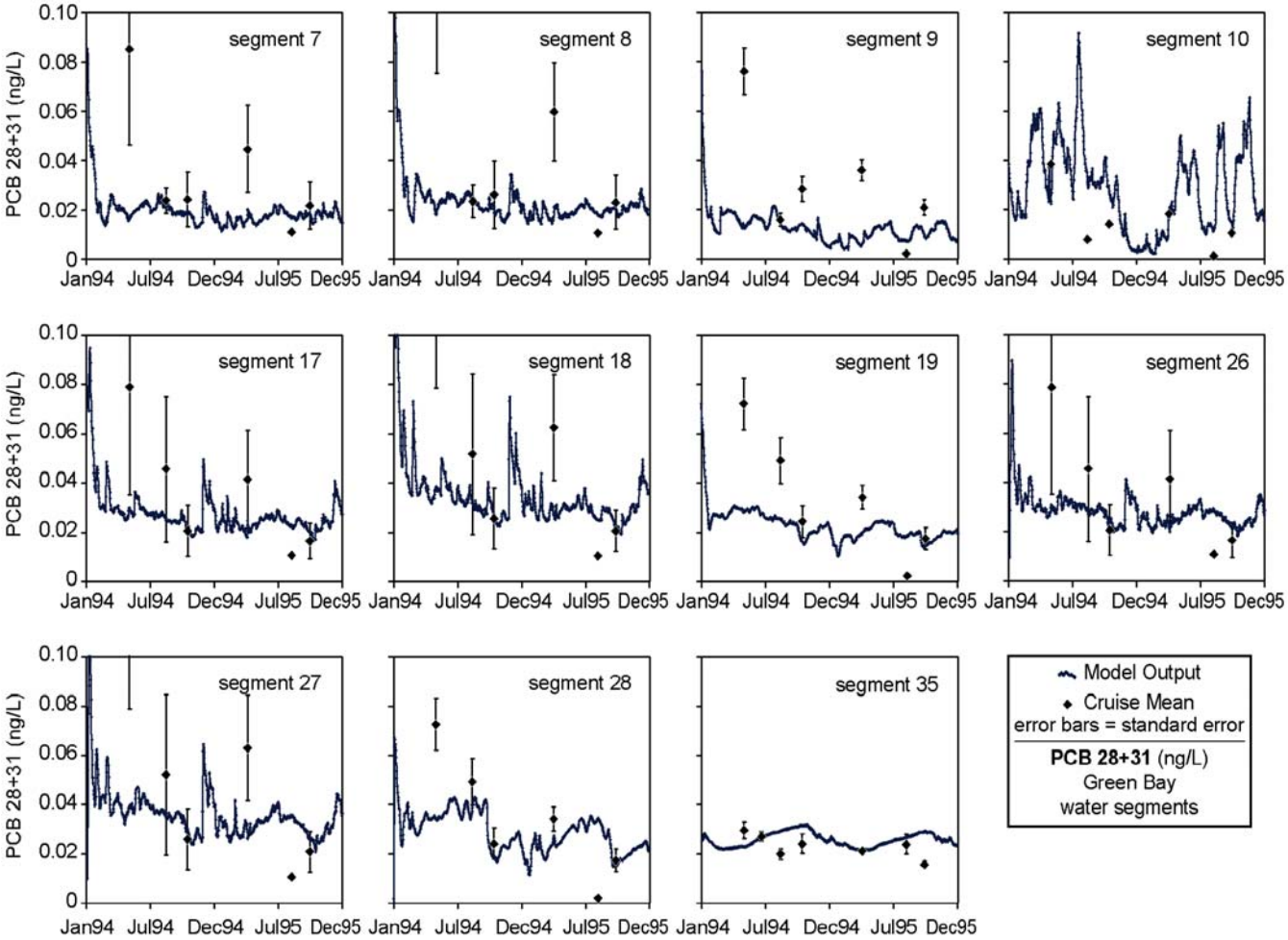


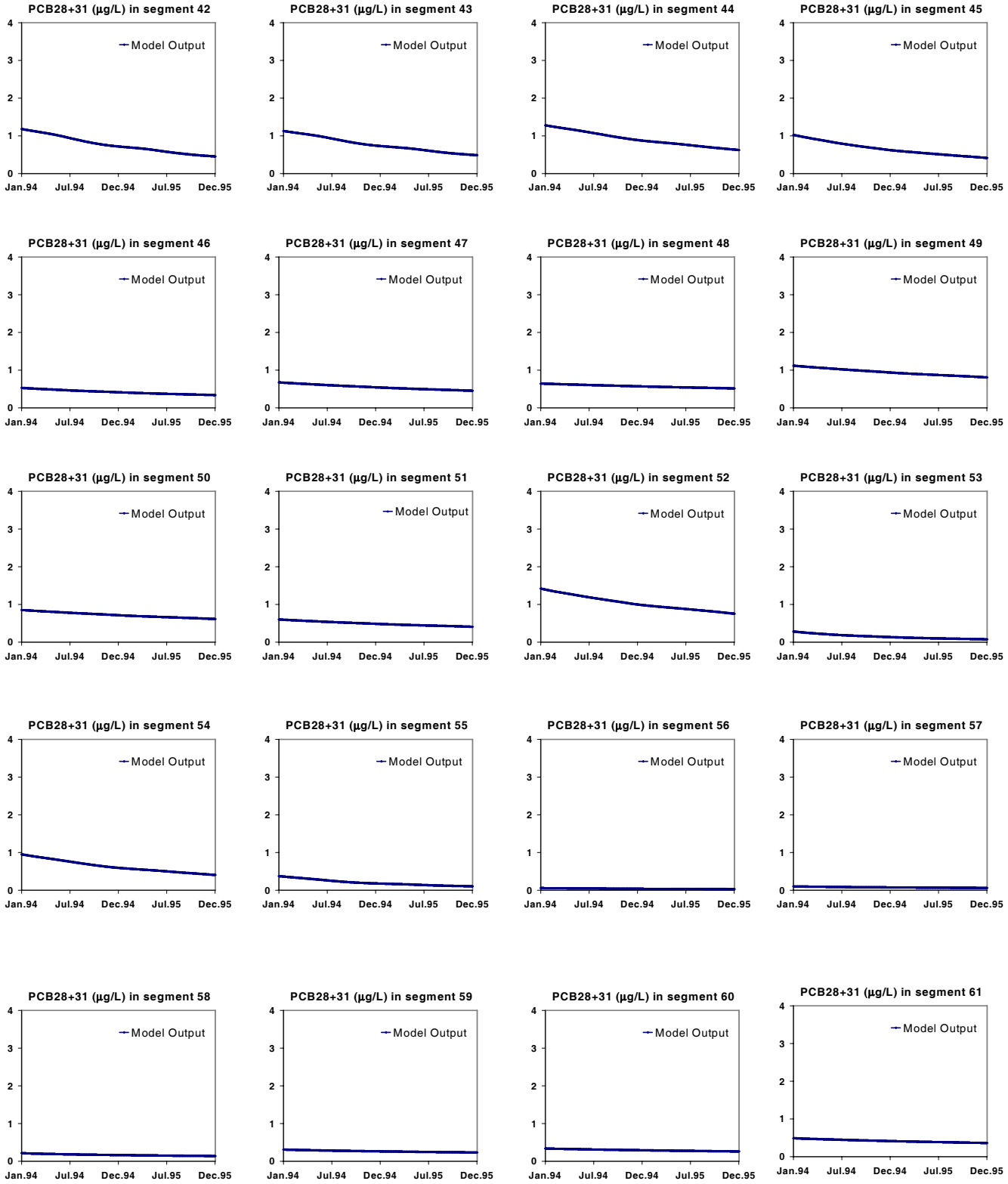


PCB_{28+31} in particulate phase (µg/L)
Green Bay sediment segments

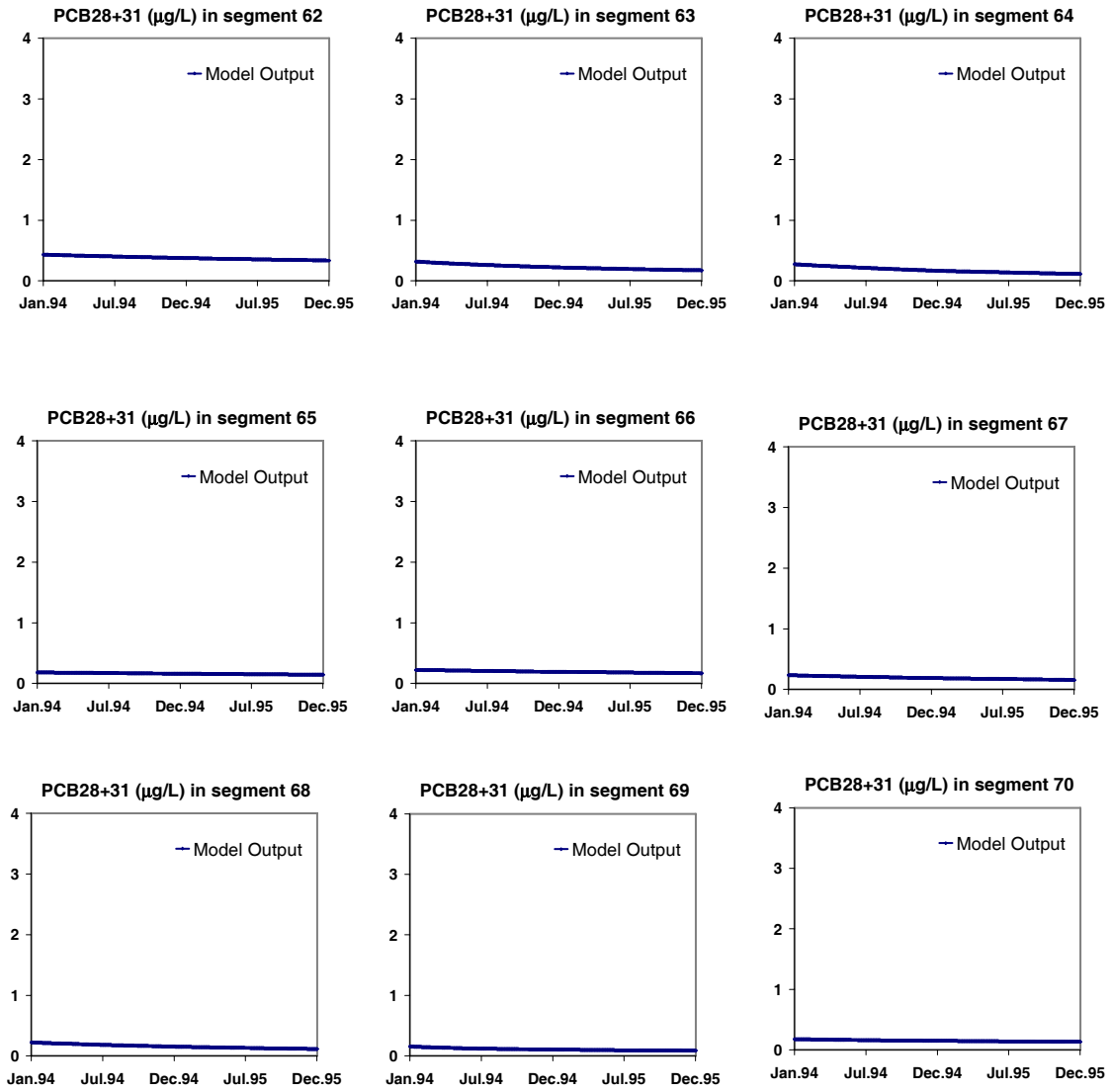

segment 1
segment 2
segment 3
segment 4
segment 5
segment 6
segment 11
segment 12
segment 13
segment 14
segment 15
segment 16
segment 20
segment 21
segment 22
segment 23
segment 24
segment 25
PCB 28+31 (ng/L)
0.05
0.04
0.03
0.02
0.01
0
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
Cruise Mean
error bars = standard error
PCB 28+31 (ng/L)
Lake Michigan layers 1, 2, 3
upper 30 meter
water segments


segment 29
segment 30
segment 31
segment 32
segment 33
segment 34
segment 36
segment 37
segment 38
segment 39
segment 40
segment 41
PCB 28+31 (ng/L)
0.05
0.04
0.03
0.02
0.01
0
Jan94 Jul94 Dec94 Jul95 Dec95
Model Output
Cruise Mean
error bars = standard error
PCB 28+31 (ng/L)
Lake Michigan layers 4 & 5
30 meters to bottom
water segments

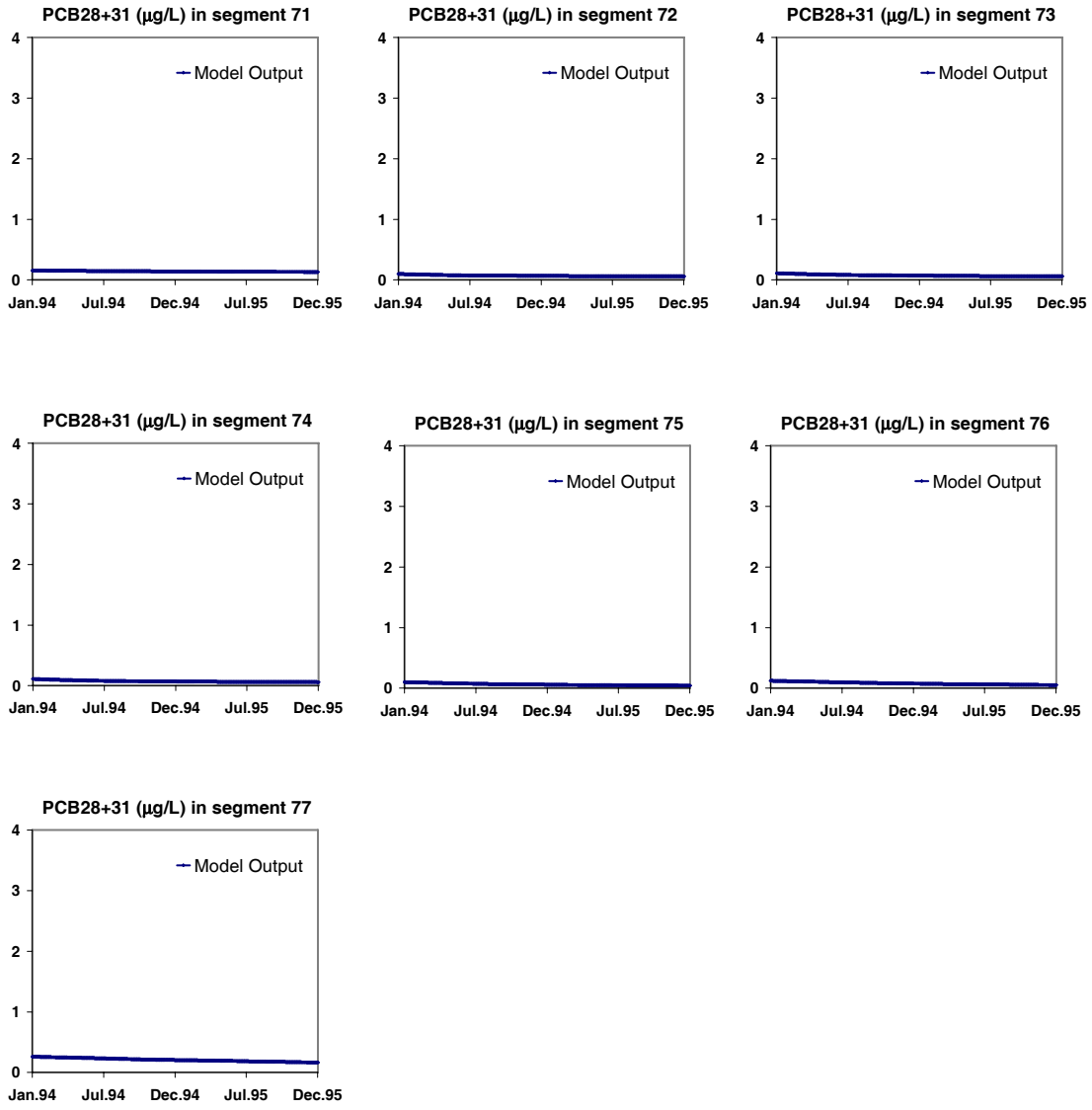

segment 7
segment 8
segment 9
segment 10
segment 17
segment 18
segment 19
segment 26
segment 27
segment 28
segment 35
PCB 28+31 (ng/L)
0.10
0.08
0.06
0.04
0.02
0
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
Cruise Mean
error bars = standard error
PCB 28+31 (ng/L)
Green Bay
water segments



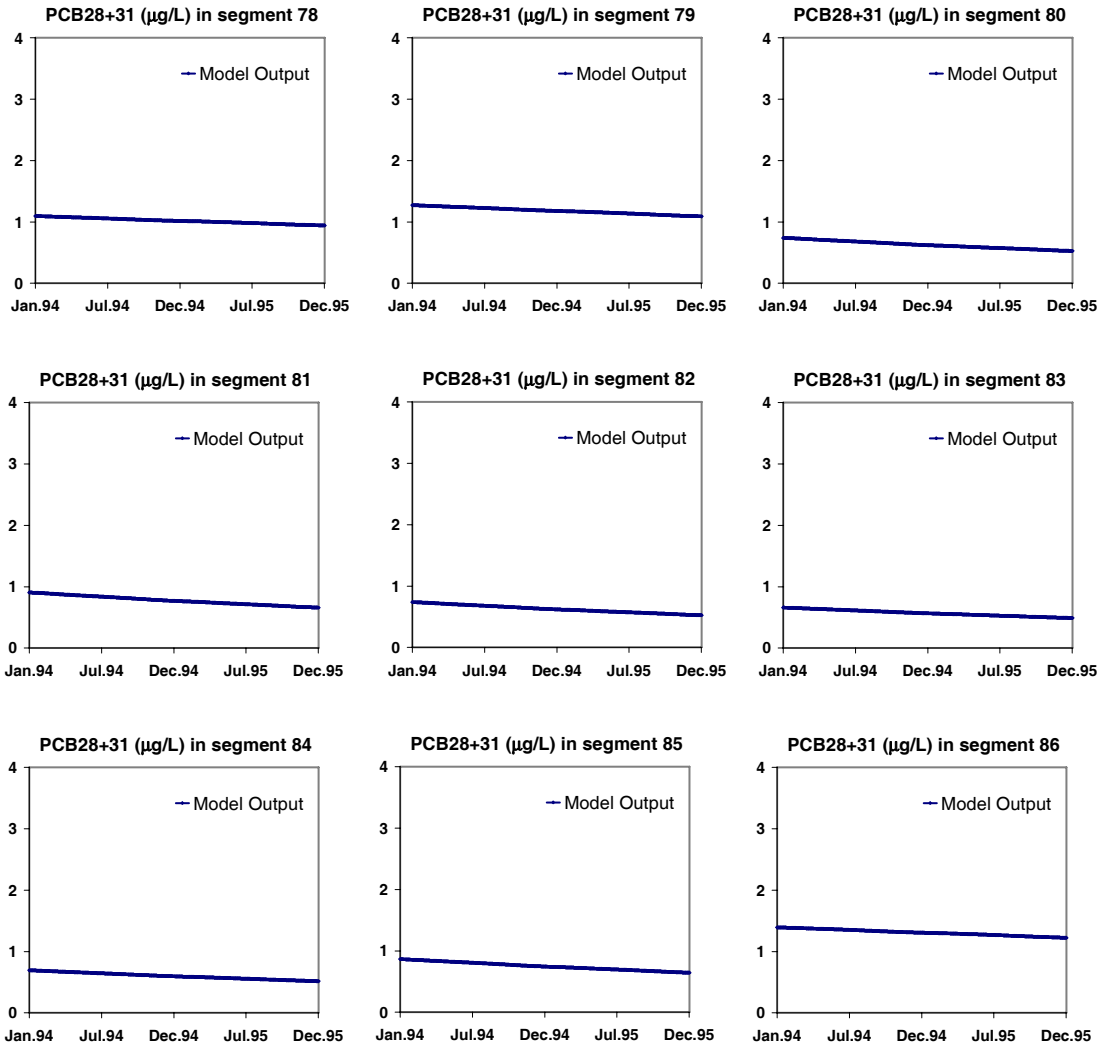
PCB_{28+31} (dissolved + particulate) (µg/L)
Lake Michigan sediment segments



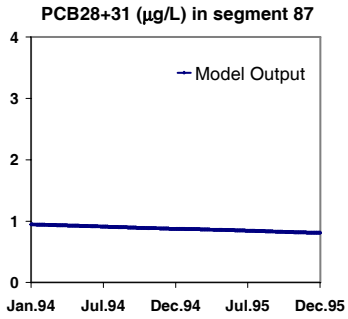
PCB_{28+31} (dissolved + particulate) (µg/L)
Lake Michigan sediment segments

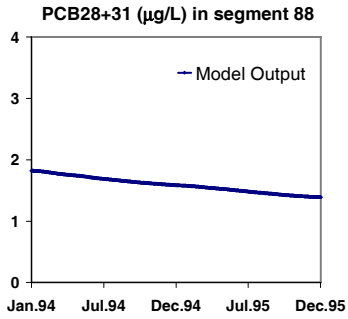


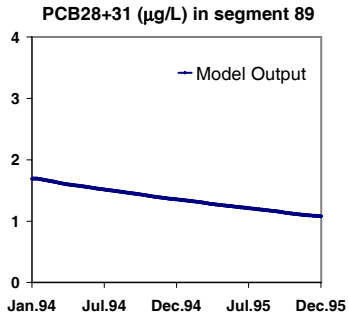
PCB_{28+31} (dissolved + particulate) (µg/L)
Lake Michigan sediment segments

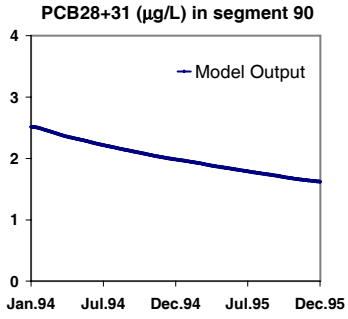


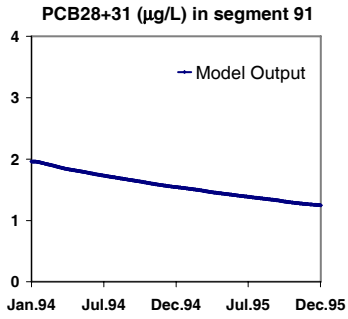
PCB_{28+31} (dissolved + particulate) (µg/L)
Green Bay sediment segments

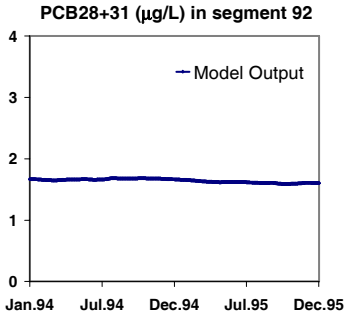


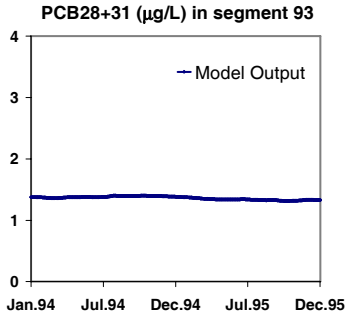


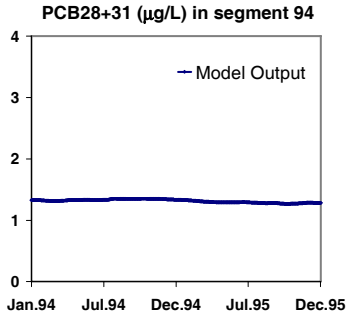




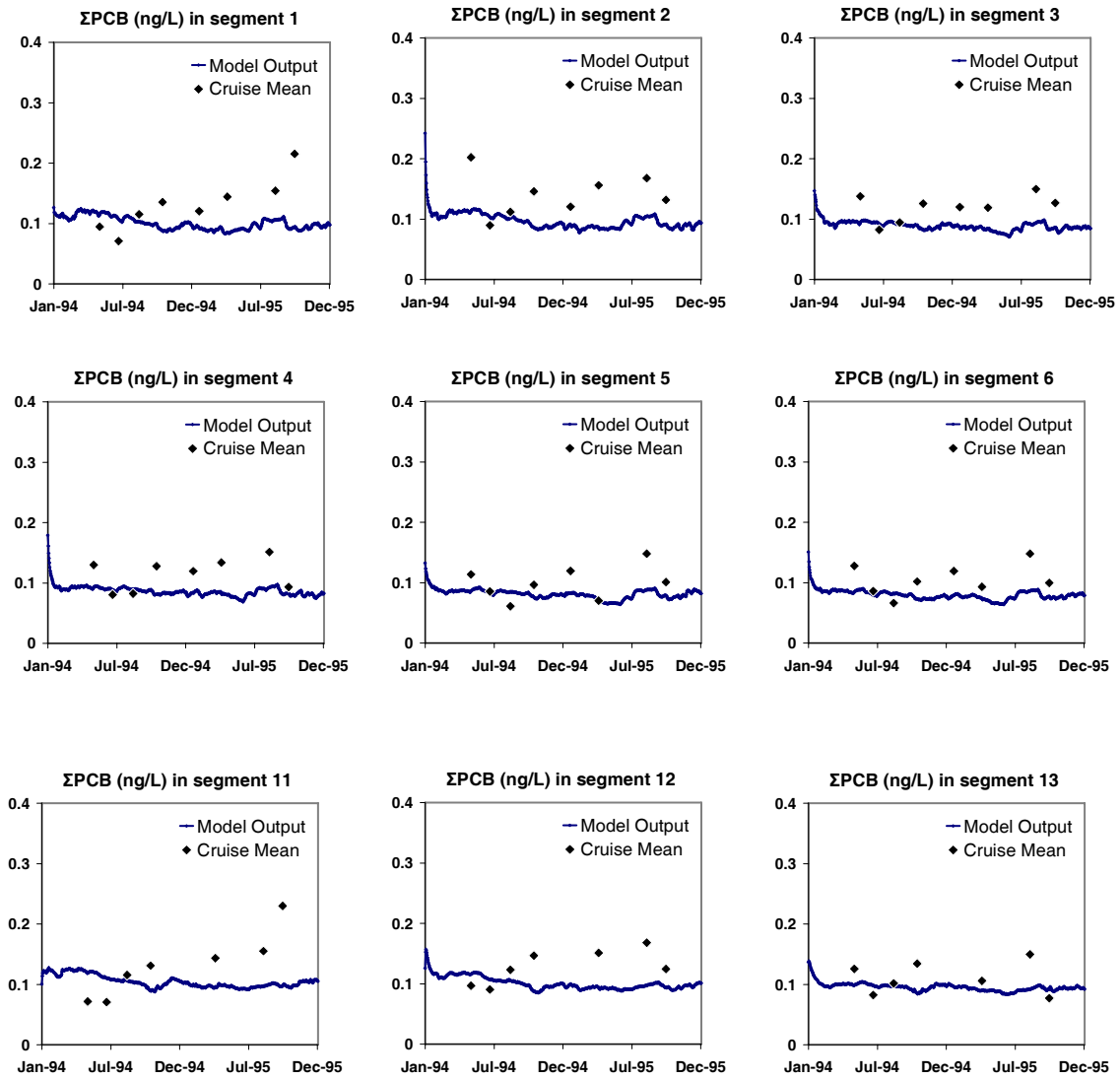




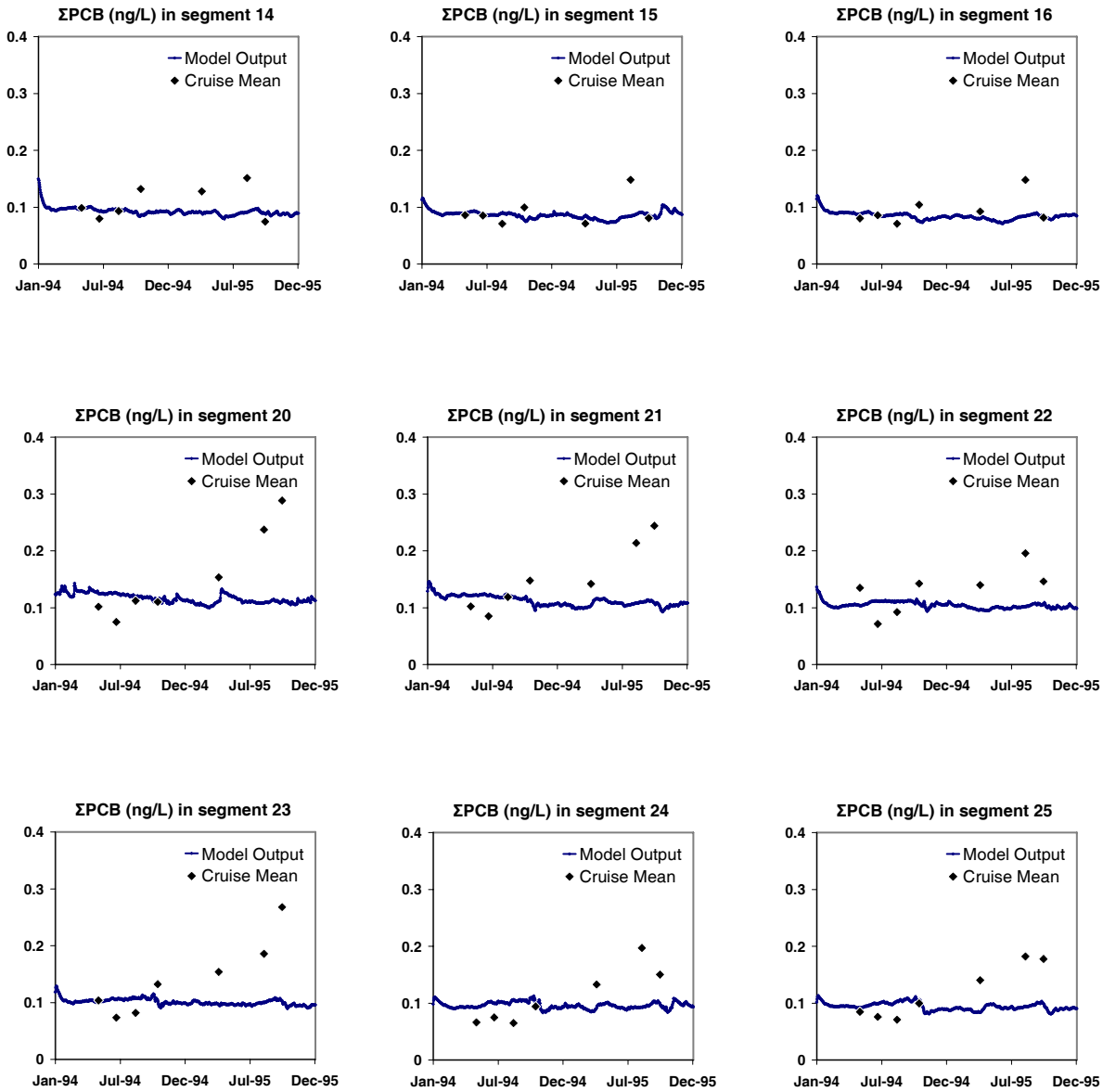




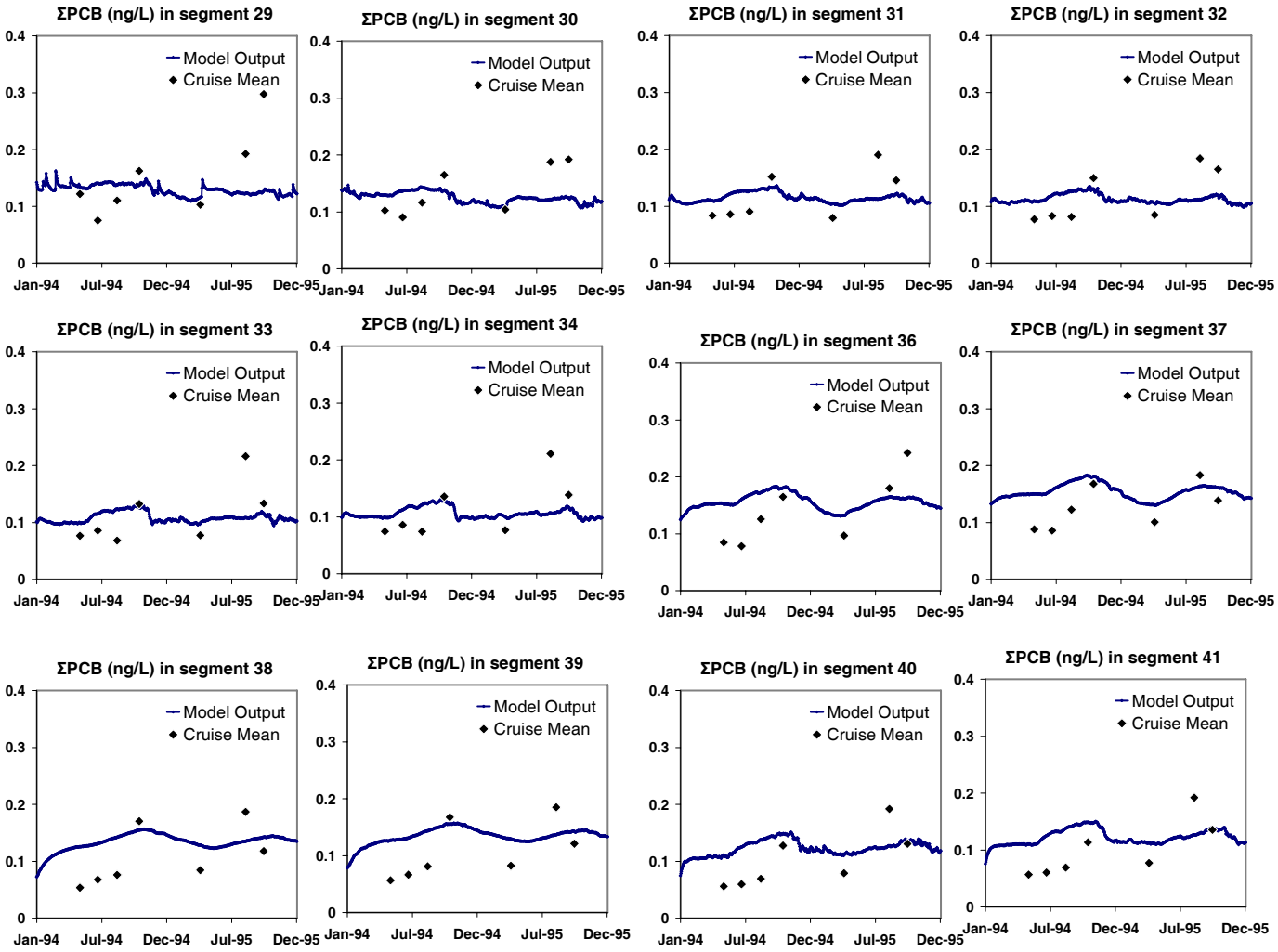
PCB_{28+31} (dissolved + particulate) (µg/L)
Green Bay sediment segments



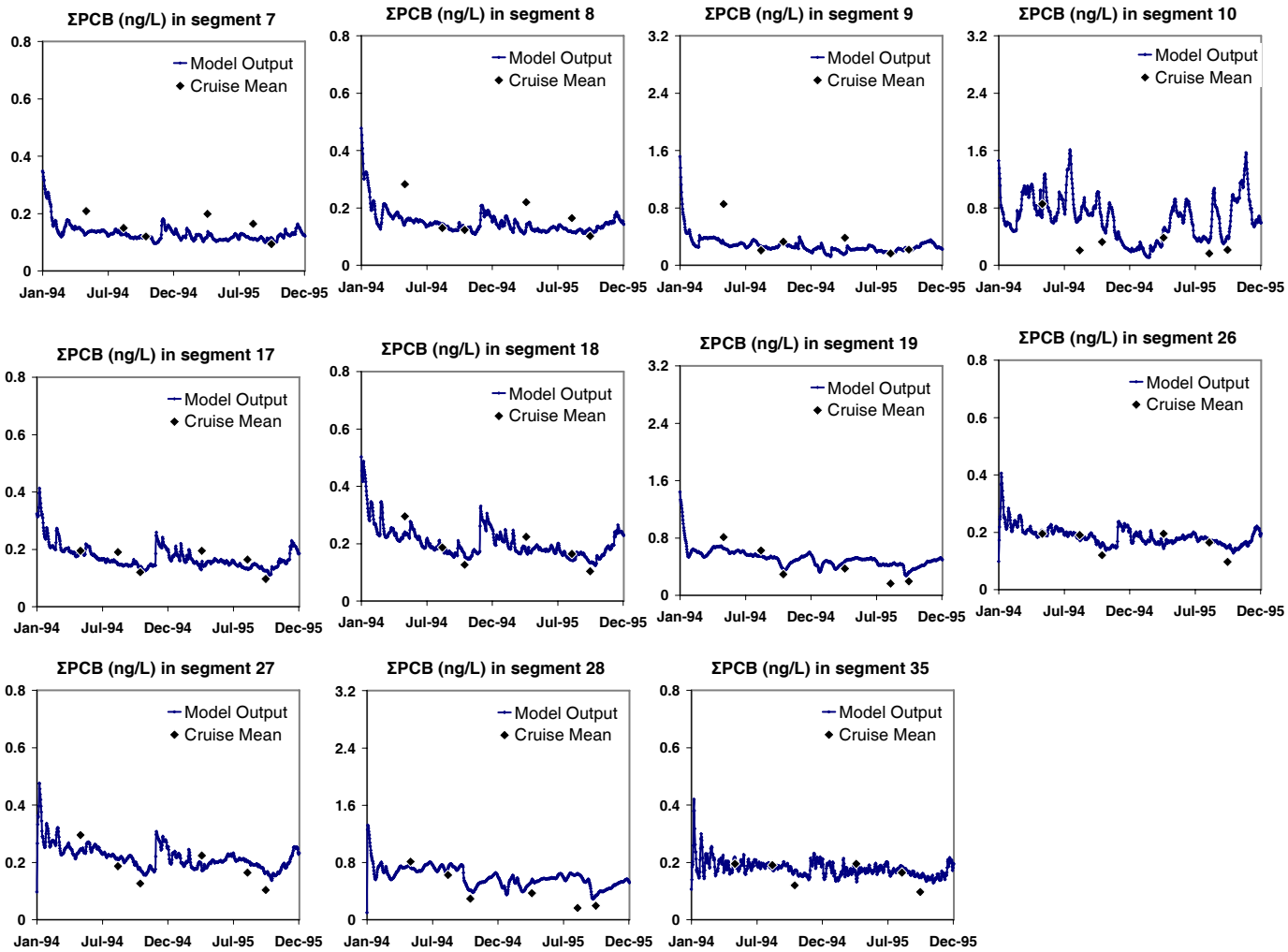
ΣPCBs in dissolved phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error



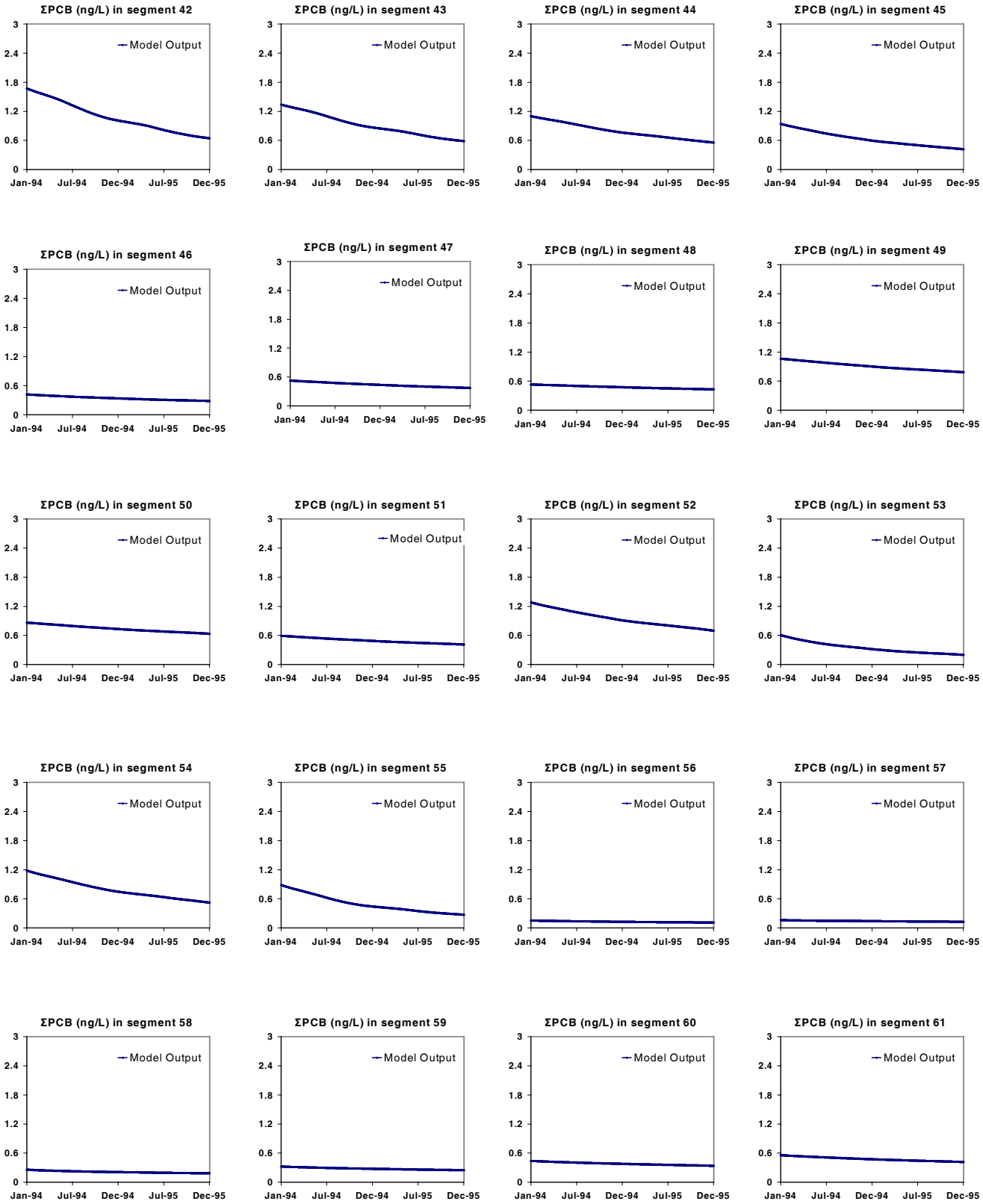
ΣPCBs in dissolved phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error



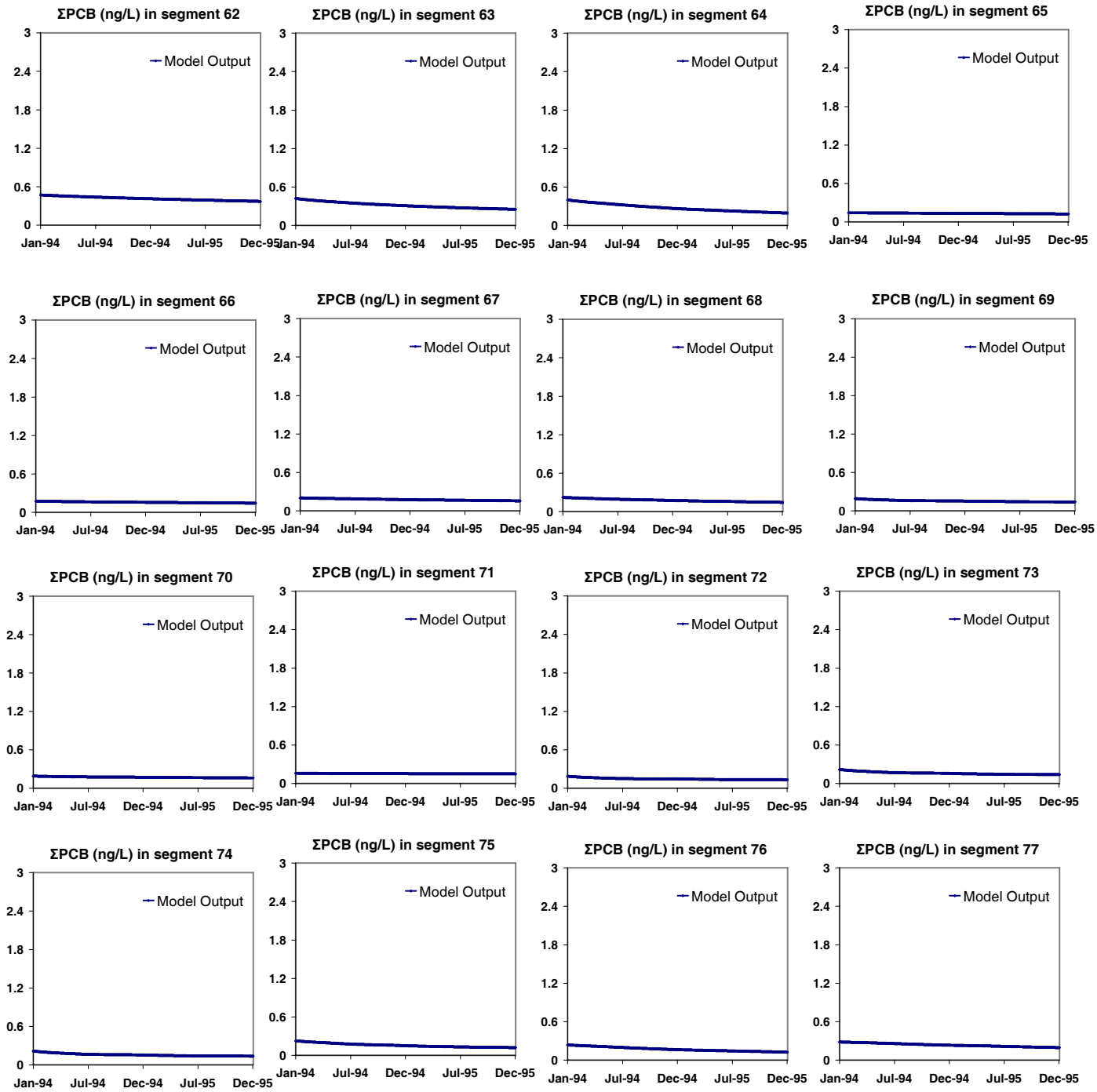
ΣPCBs in dissolved phase (ng/L)
Lake Michigan layers 4 and 5
30 m to bottom water segments
Error bars = standard error



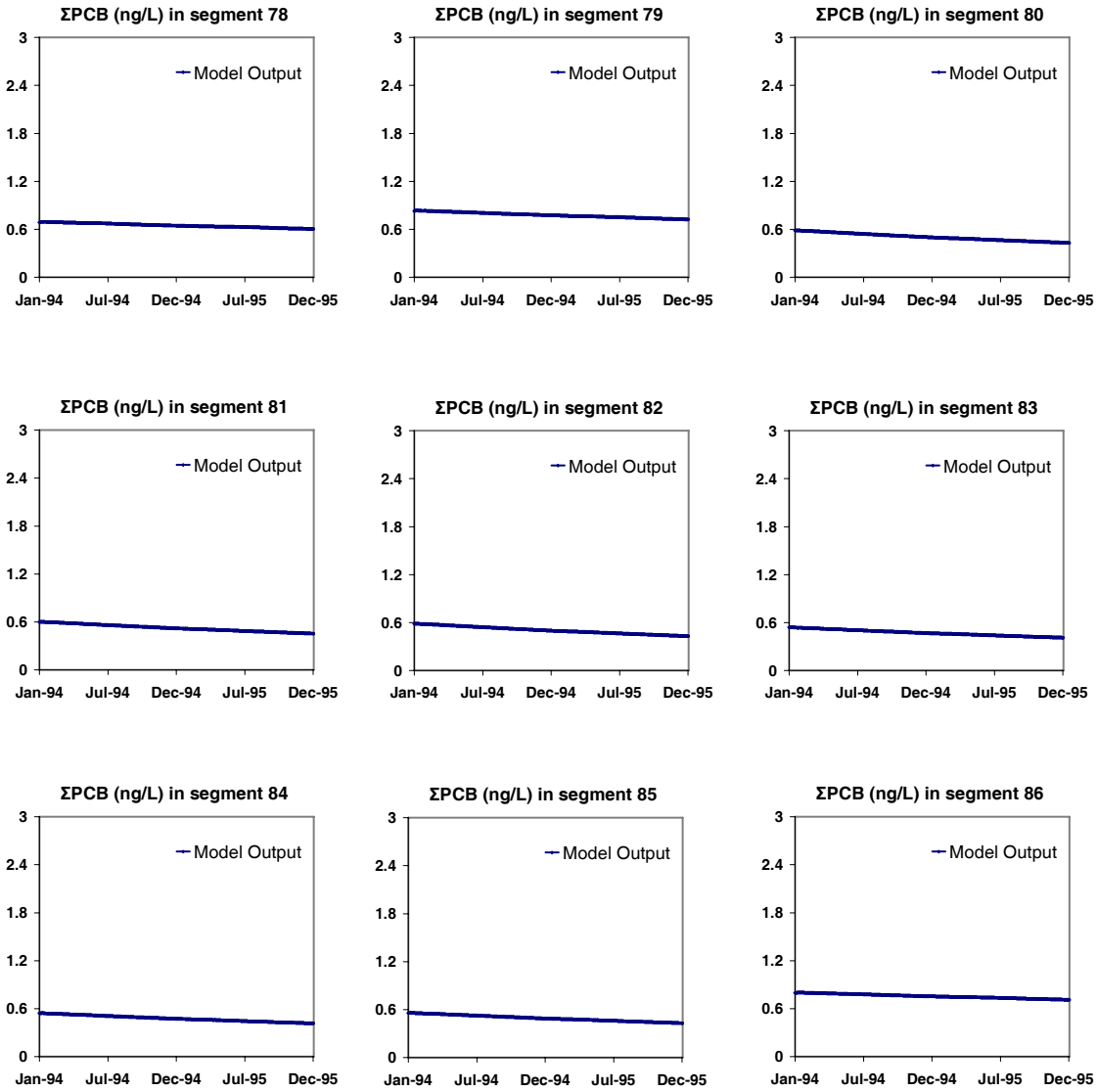
ΣPCBs in dissolved phase (ng/L)
Green Bay water segments
Error bars = standard error



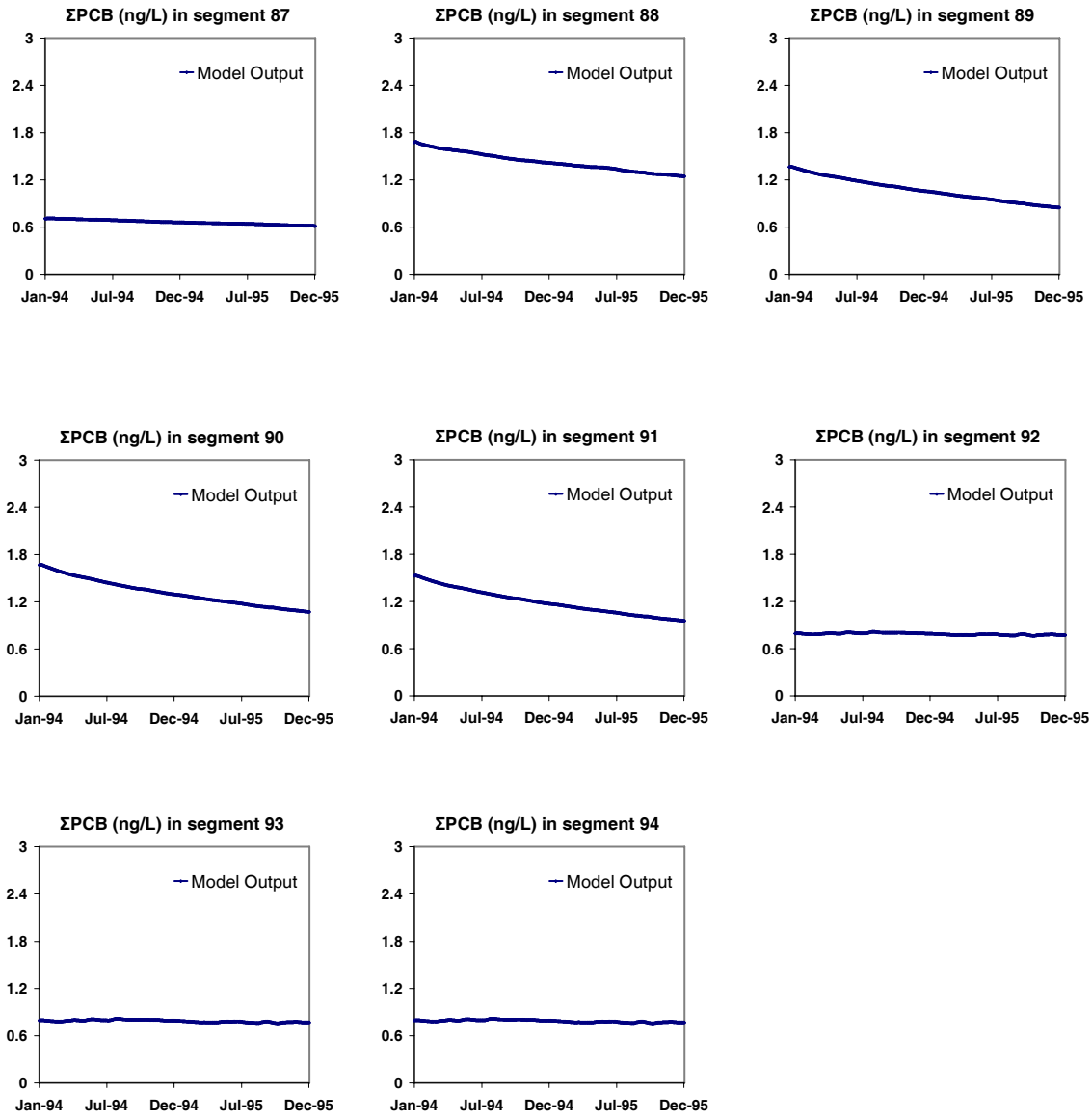
ΣPCBs in dissolved phase (ng/L)
Lake Michigan sediment segments



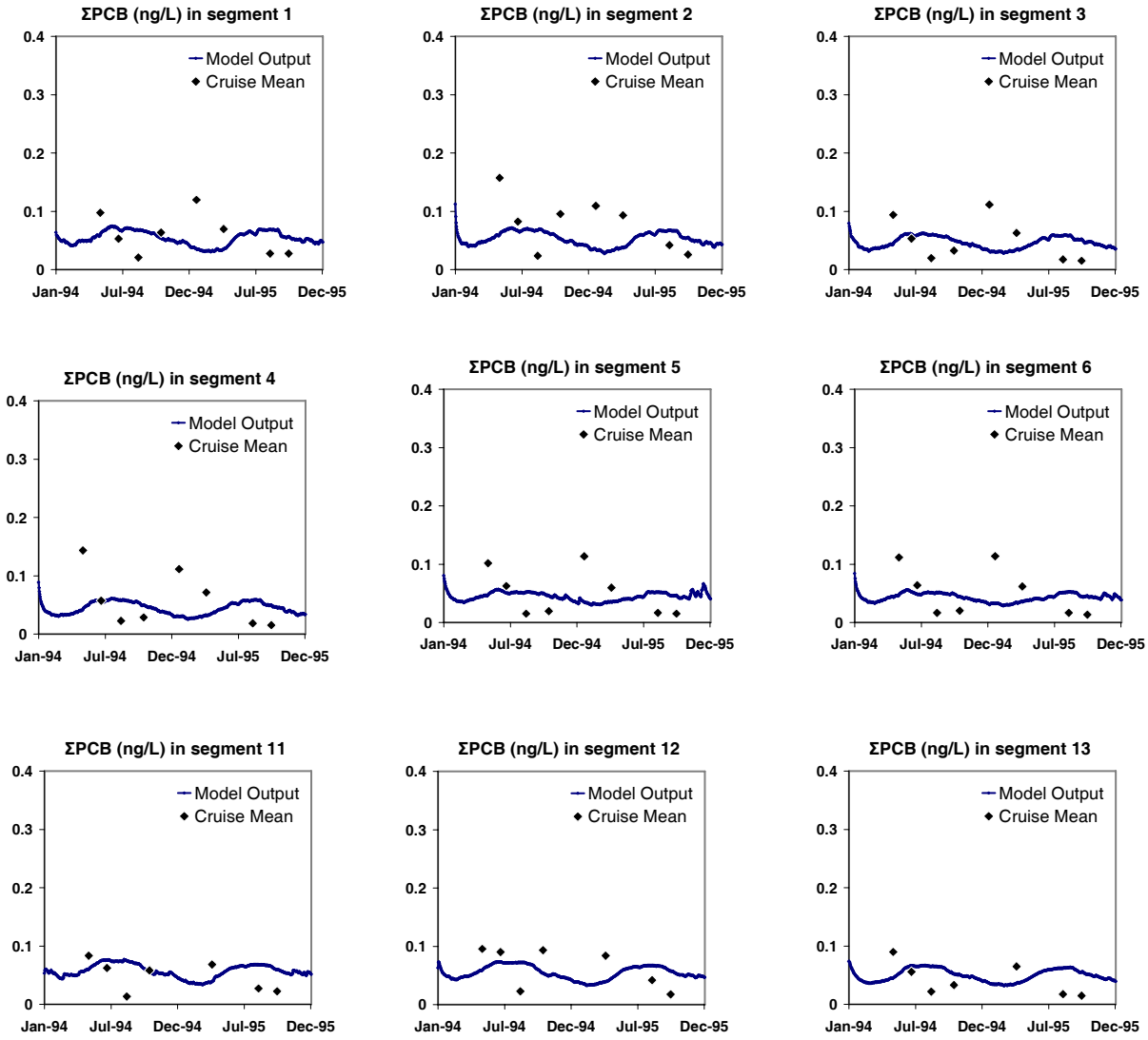
ΣPCBs in dissolved phase (ng/L)
Lake Michigan sediment segments



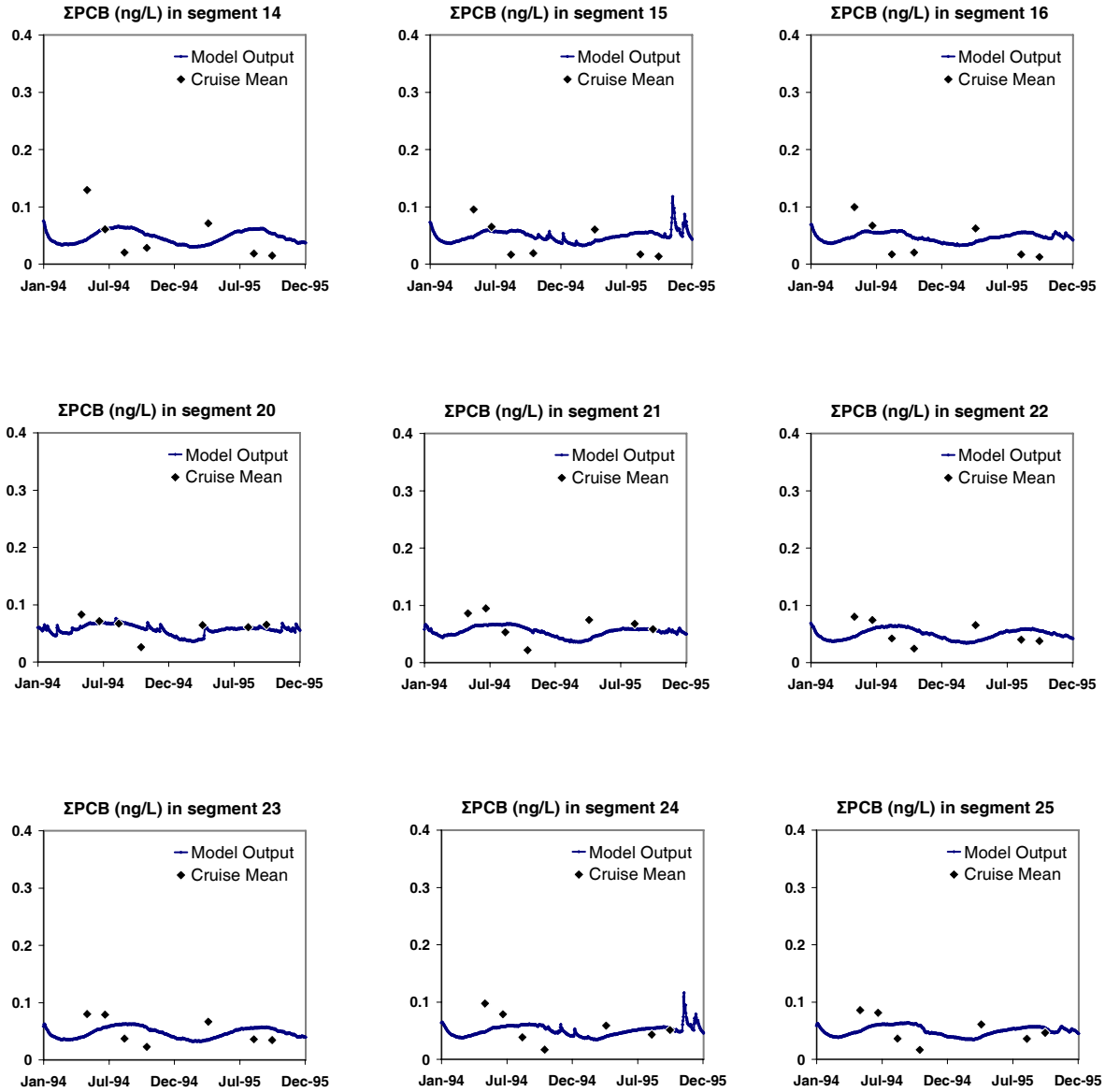
ΣPCBs in dissolved phase (ng/L)
Green Bay sediment segments



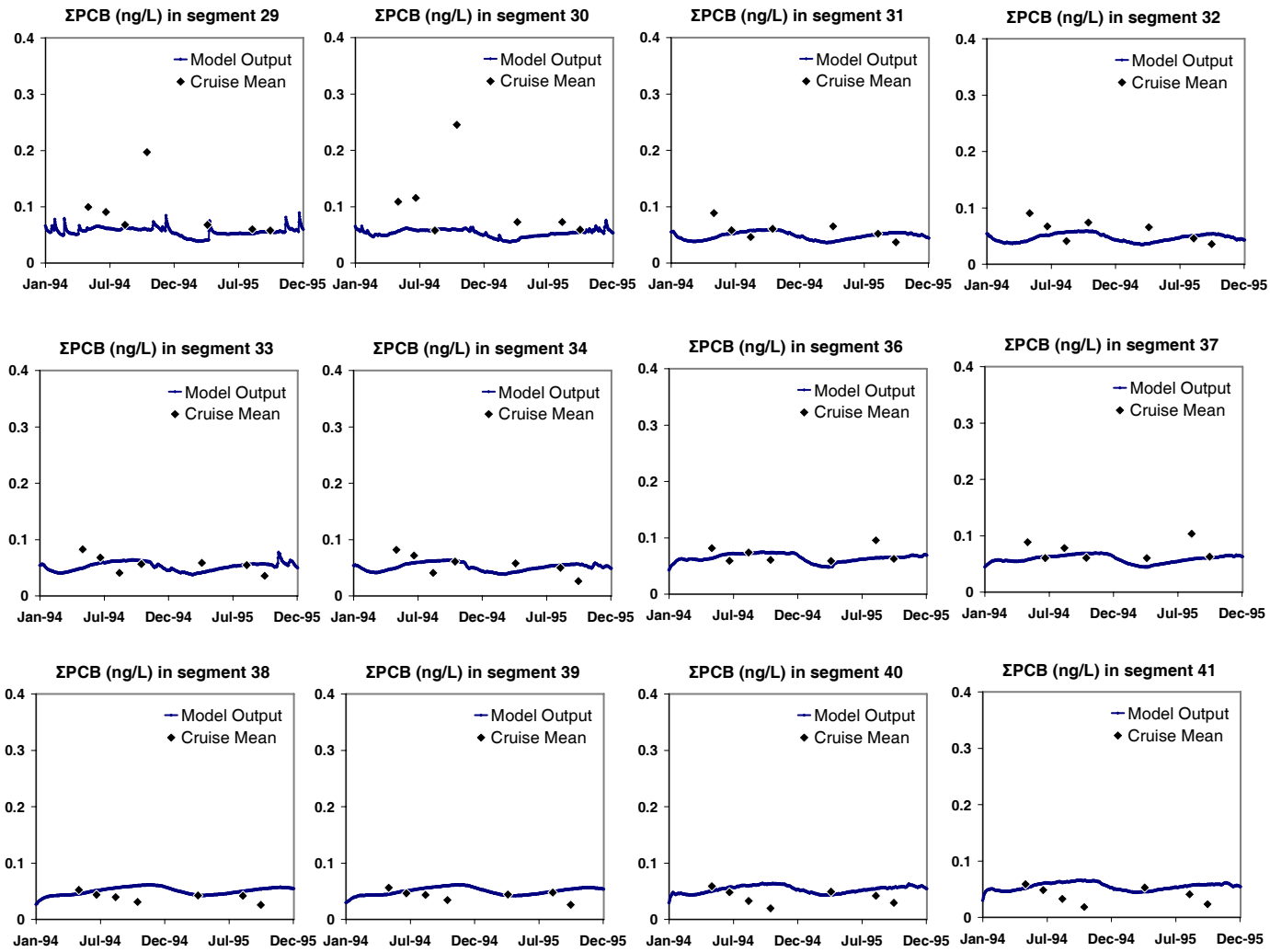
ΣPCBs in dissolved phase (ng/L)
Green Bay sediment segments



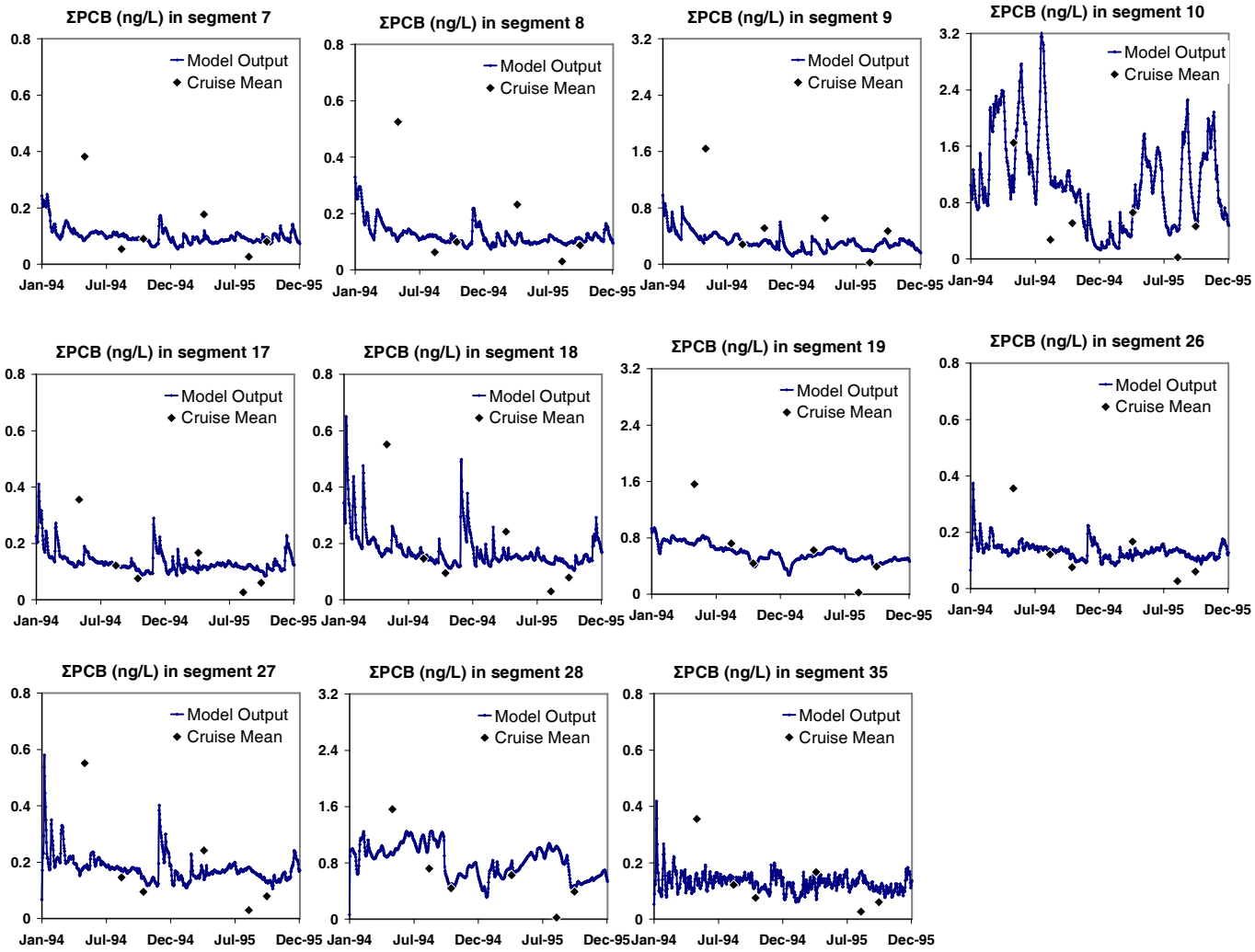
ΣPCBs in particulate phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error



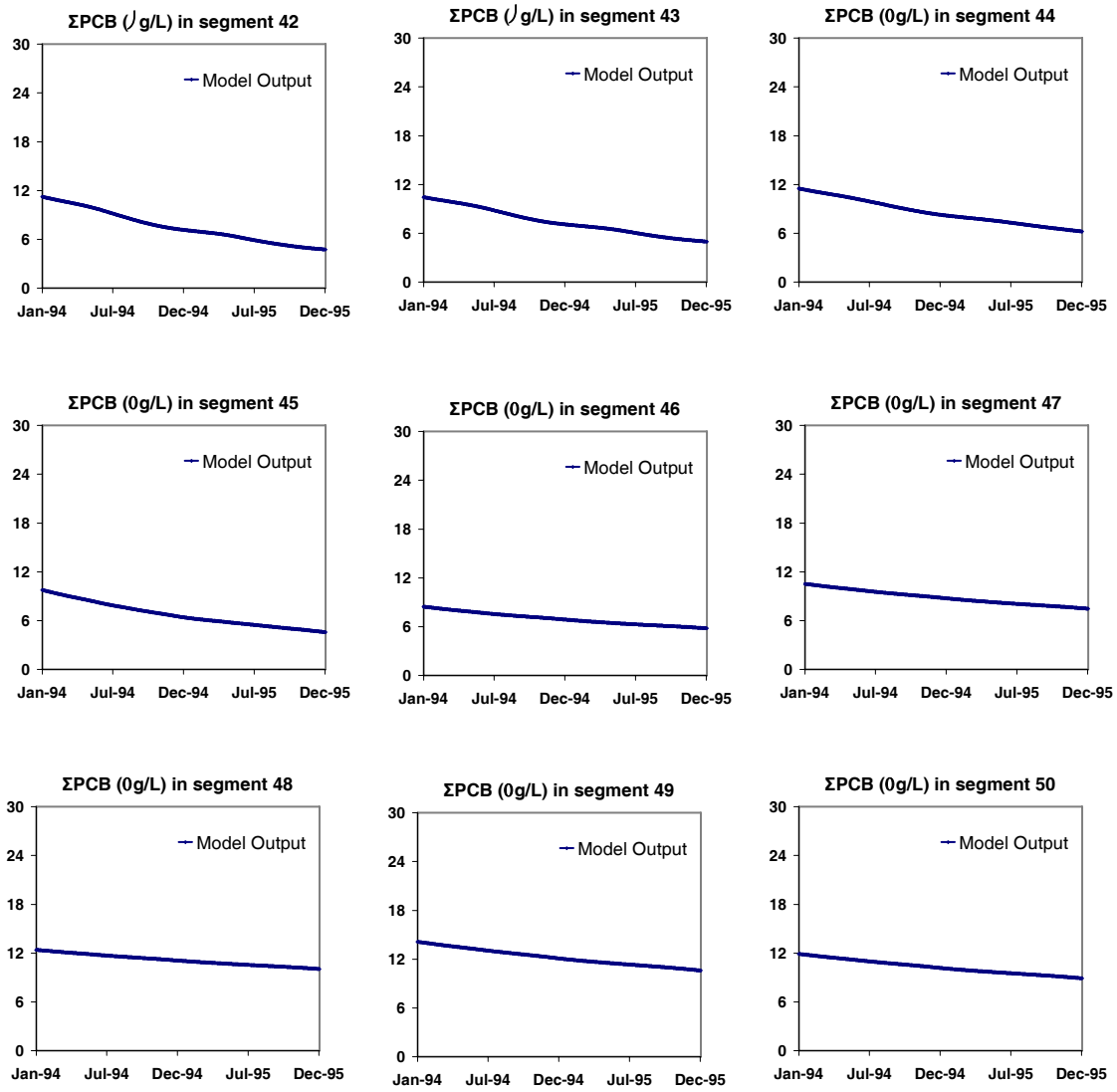
ΣPCBs in particulate phase (ng/L)
Lake Michigan layers 1, 2, and 3
Upper 30 m water segments
Error bars = standard error



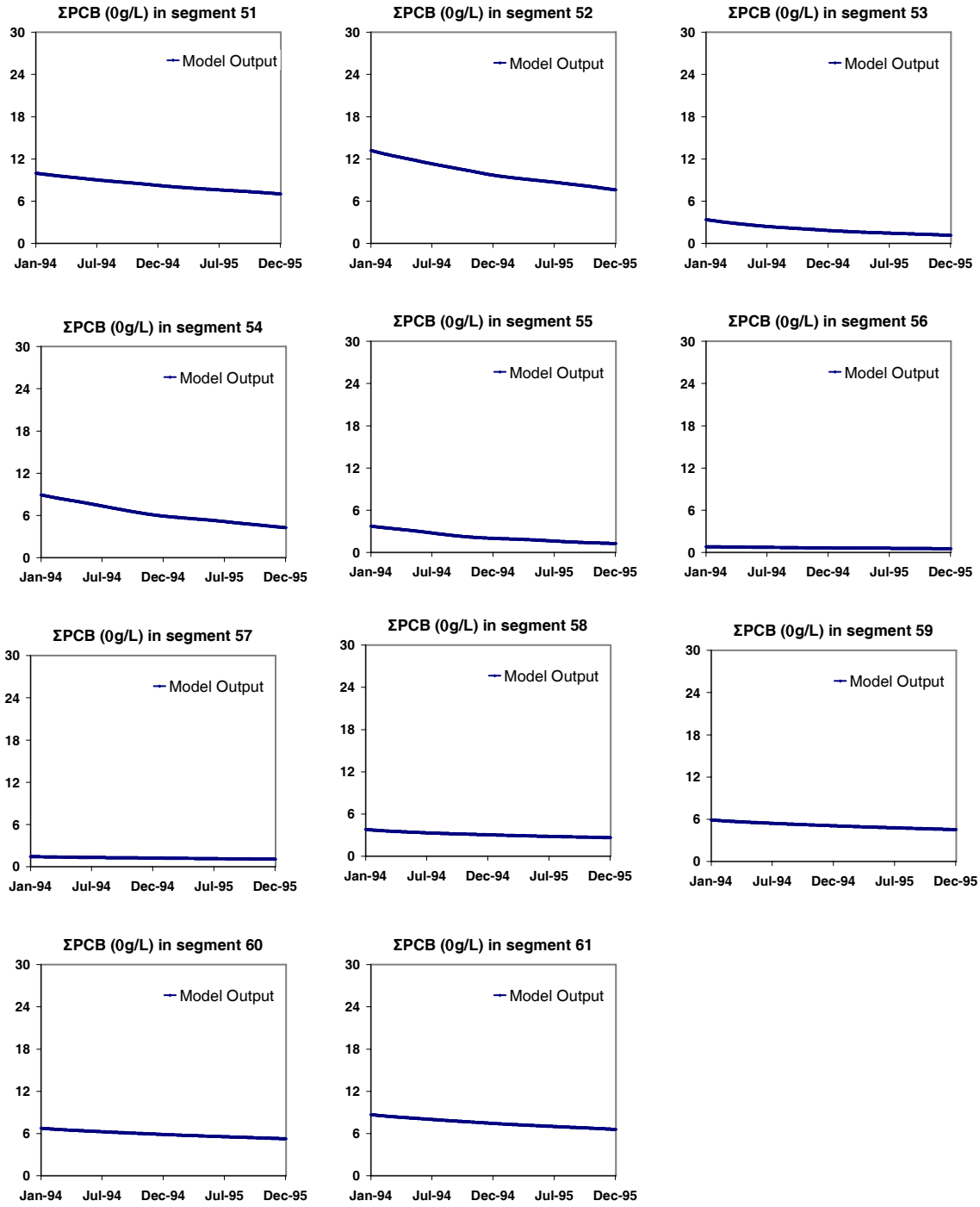
ΣPCBs in particulate phase (ng/L)
Lake Michigan layers 4 and 5
30 m to bottom water segments
Error bars = standard error



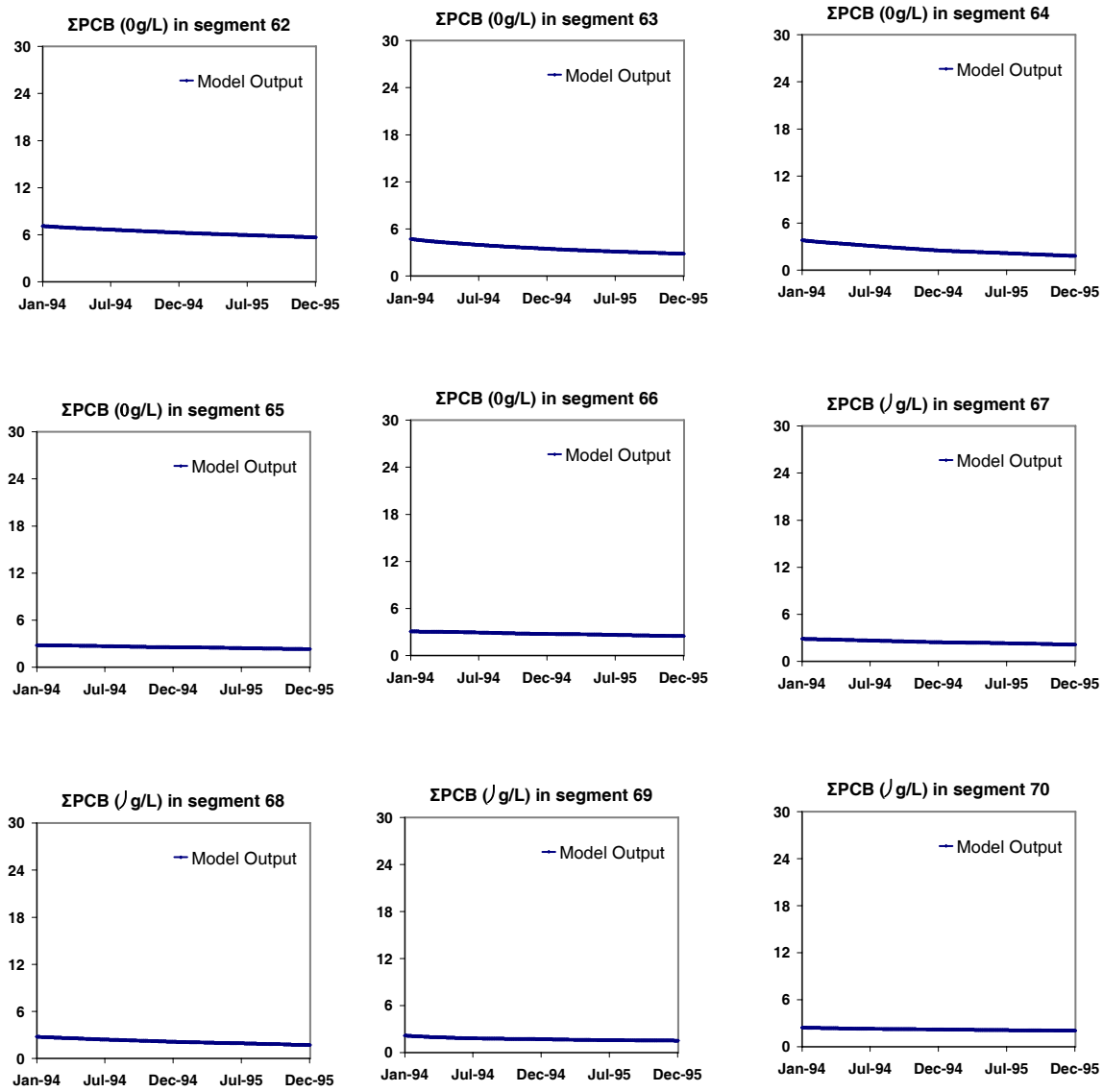
ΣPCBs in particulate phase (ng/L)
Green Bay water segments
Error bars = standard error



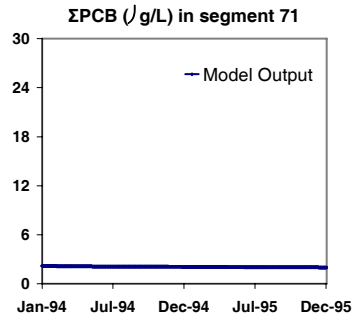
ΣPCBs in particulate phase (µg/L)
Lake Michigan sediment segments

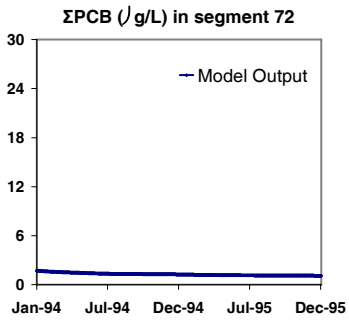


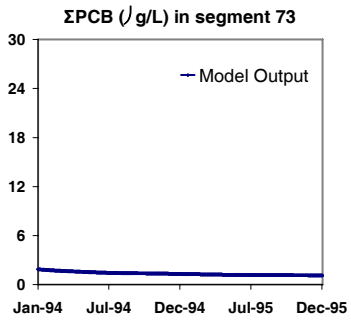
ΣPCBs in particulate phase (µg/L)
Lake Michigan sediment segments

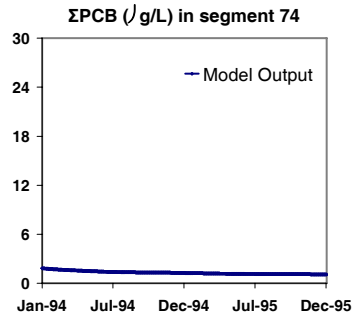


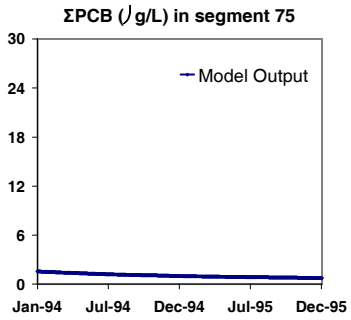
ΣPCBs in particulate phase (µg/L)
Lake Michigan sediment segments

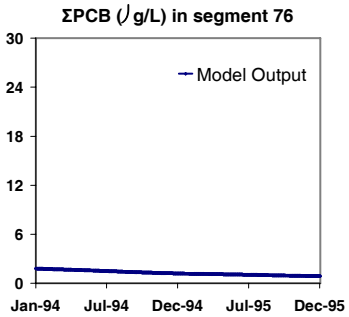


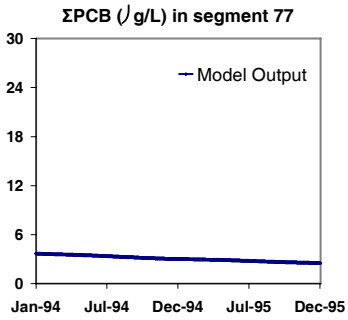




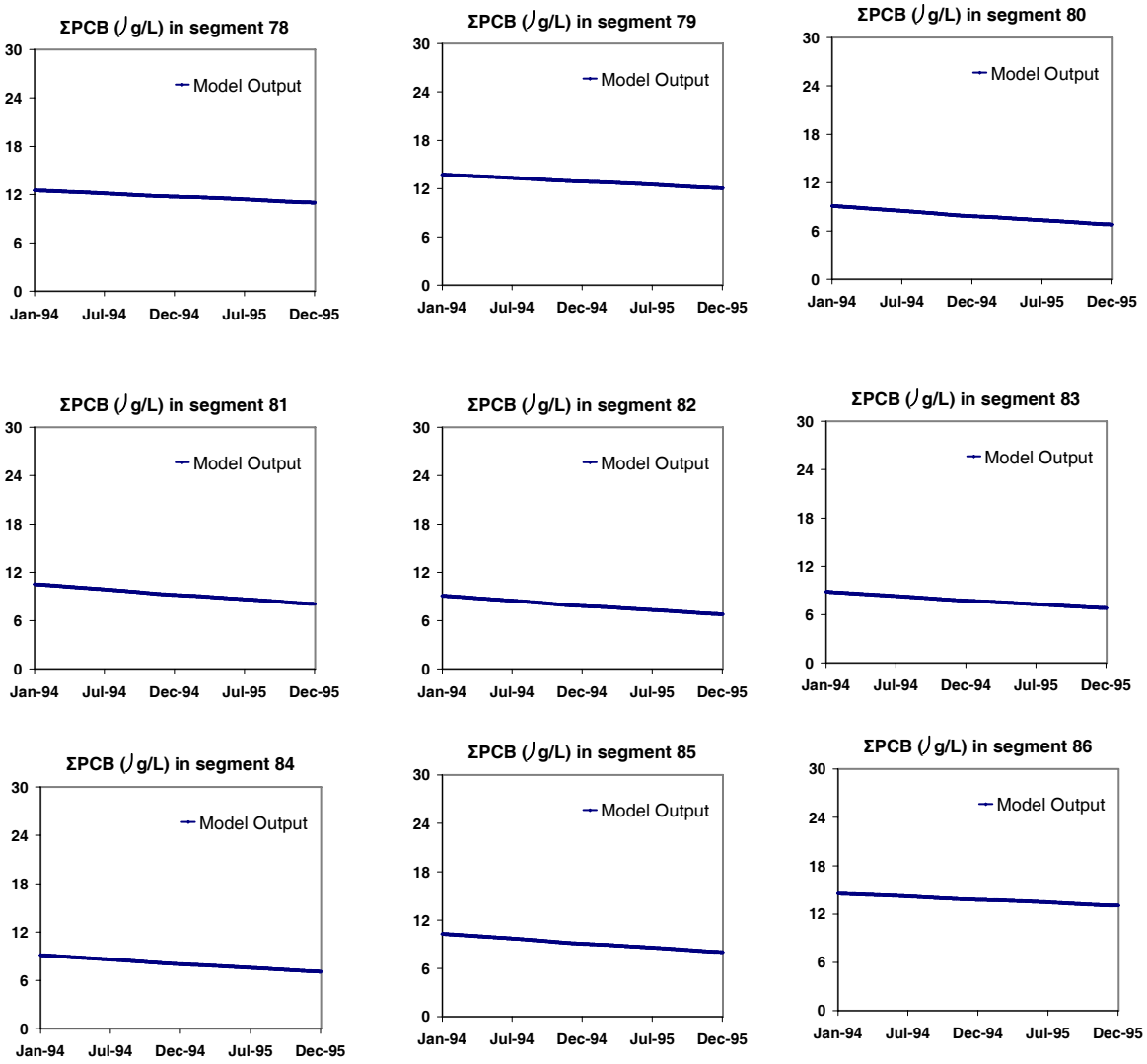




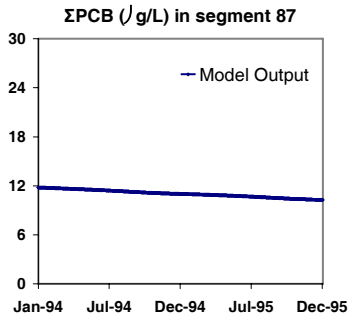


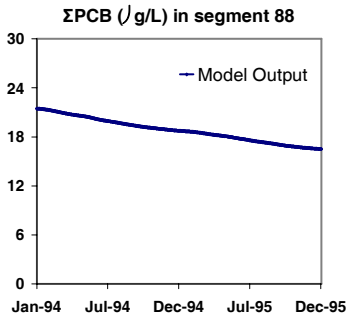


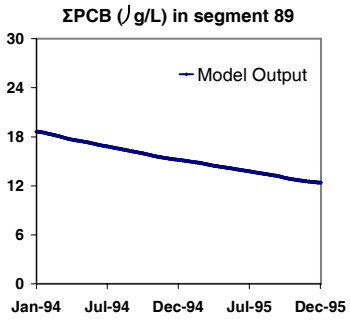
ΣPCBs in particulate phase (µg/L)
Lake Michigan sediment segments

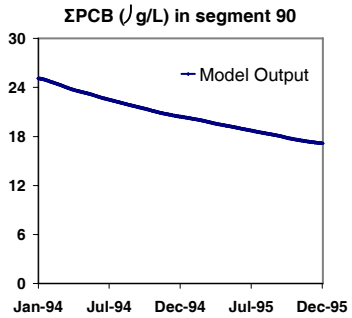


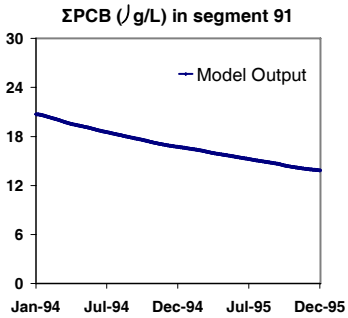
ΣPCBs in particulate phase (µg/L)
Green Bay sediment segments

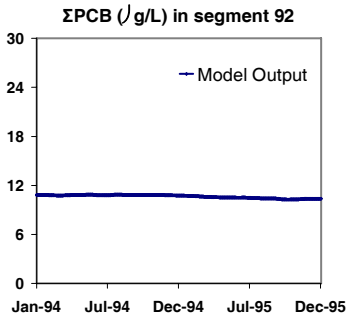


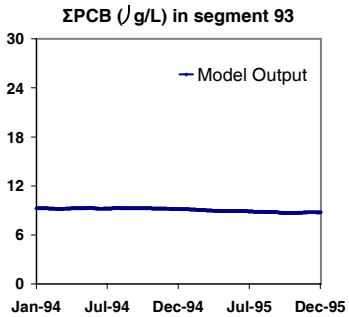


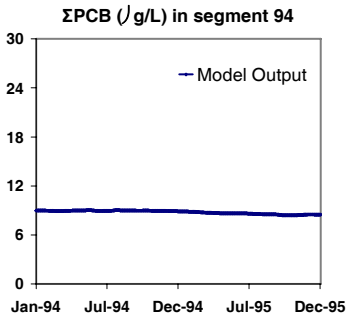




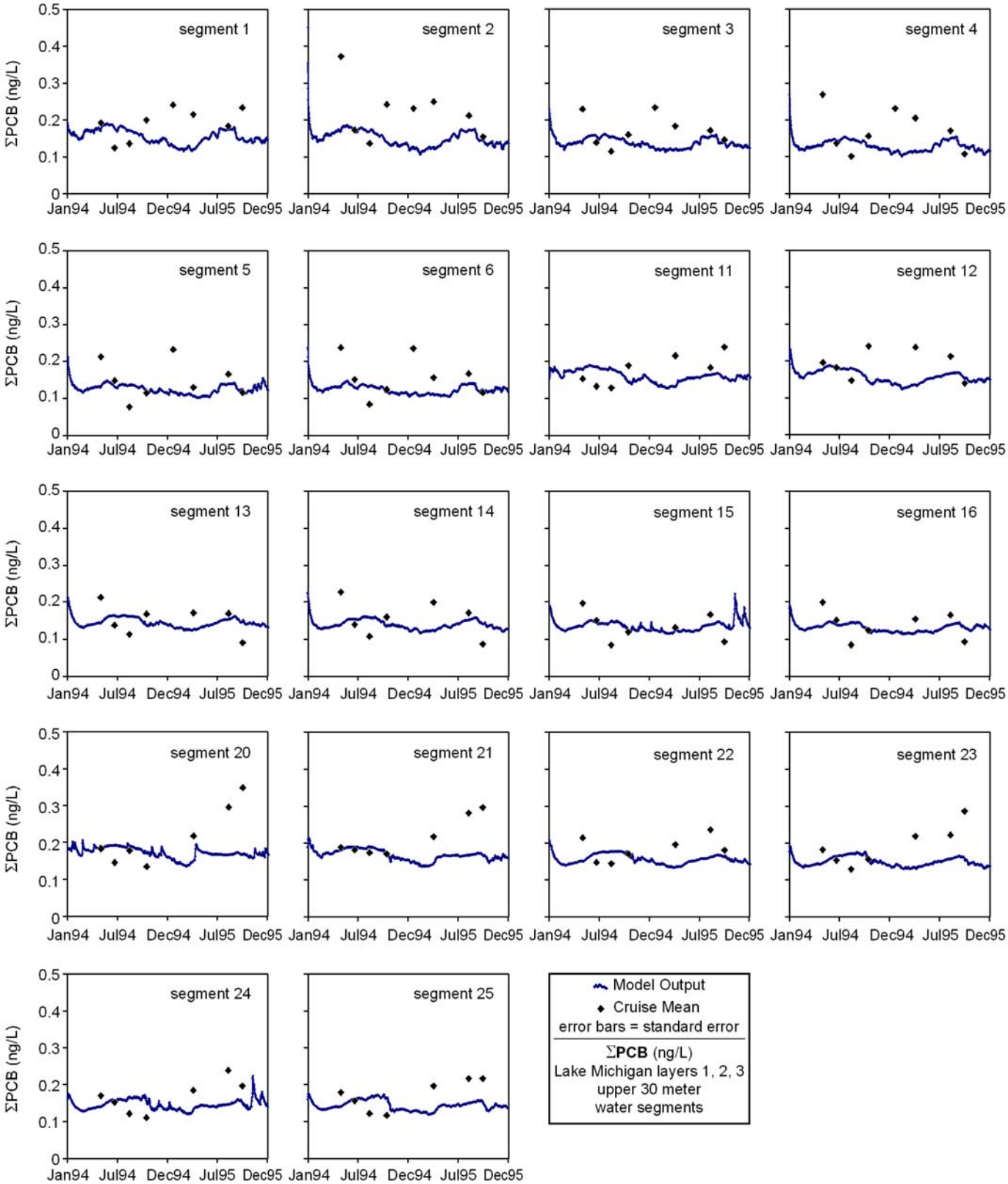


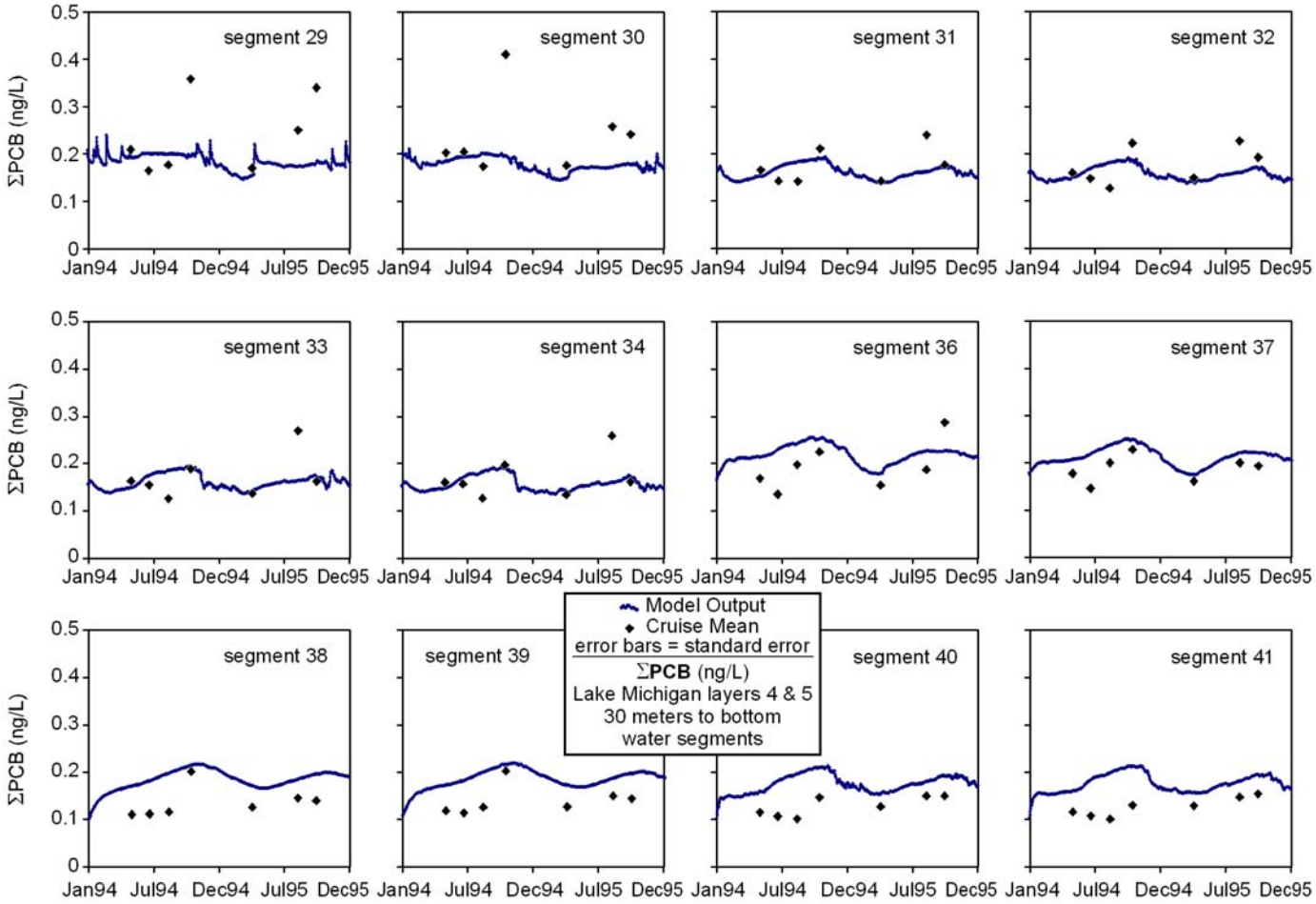


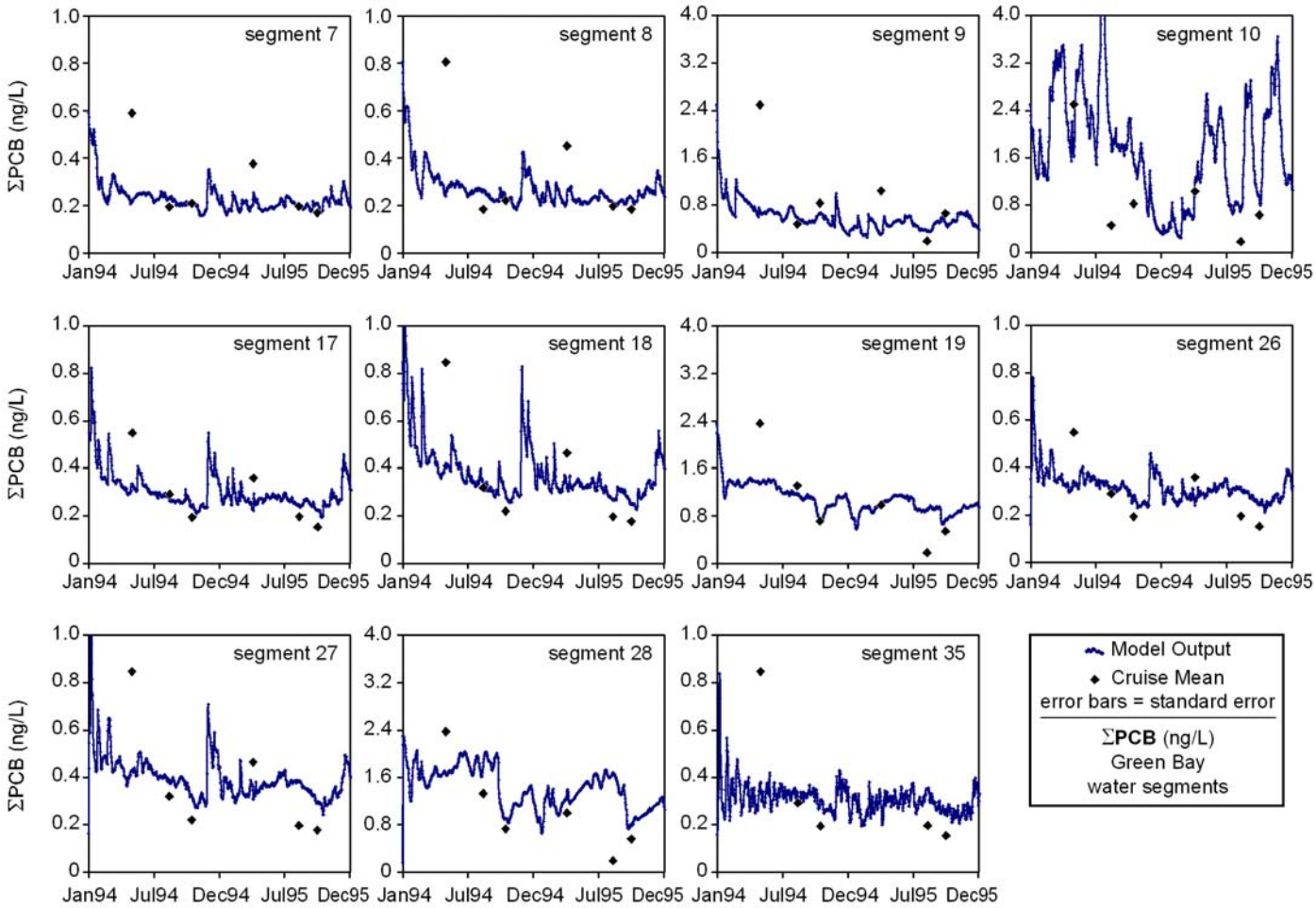


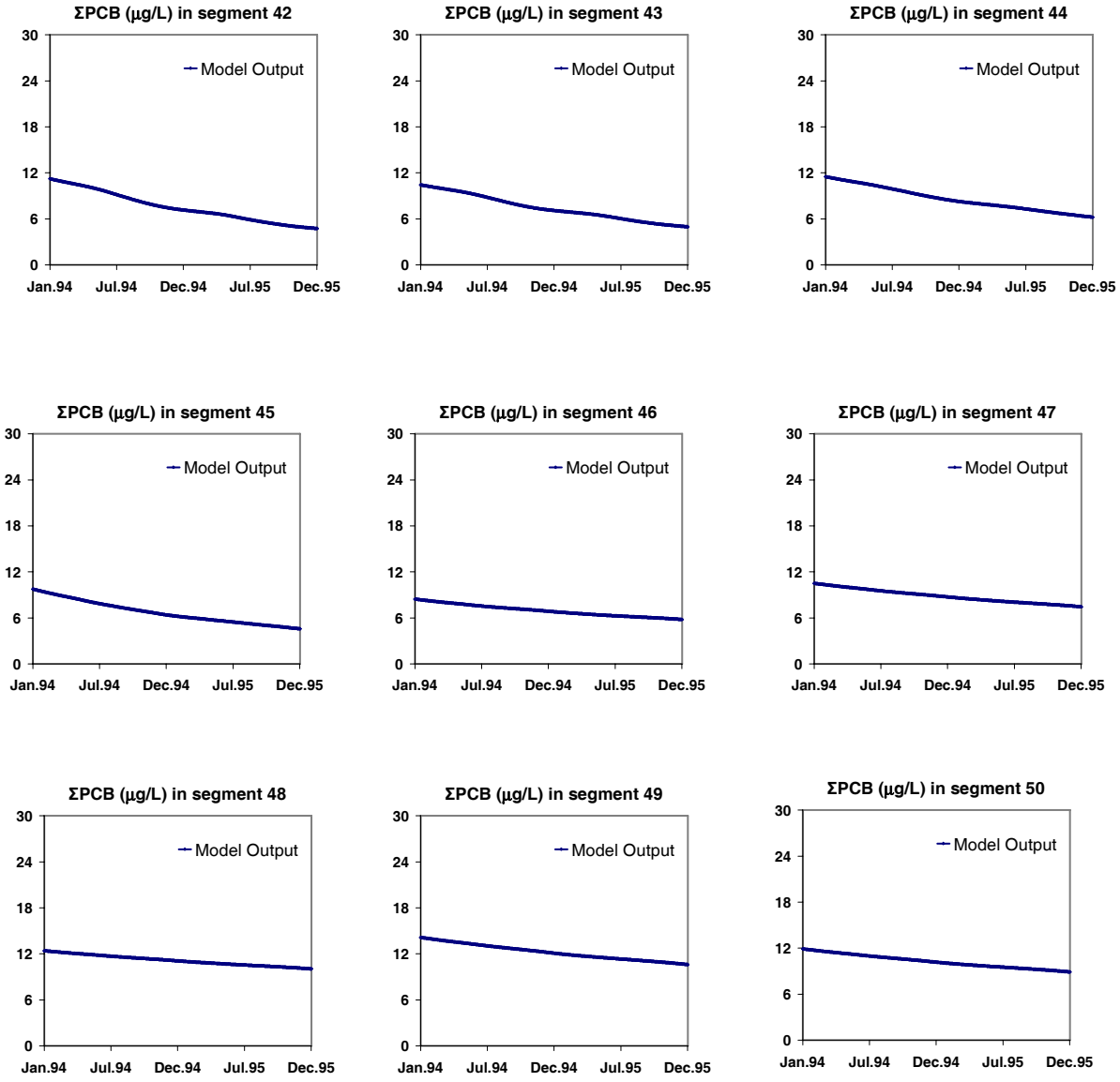


ΣPCBs in particulate phase (µg/L)
Green Bay sediment segments

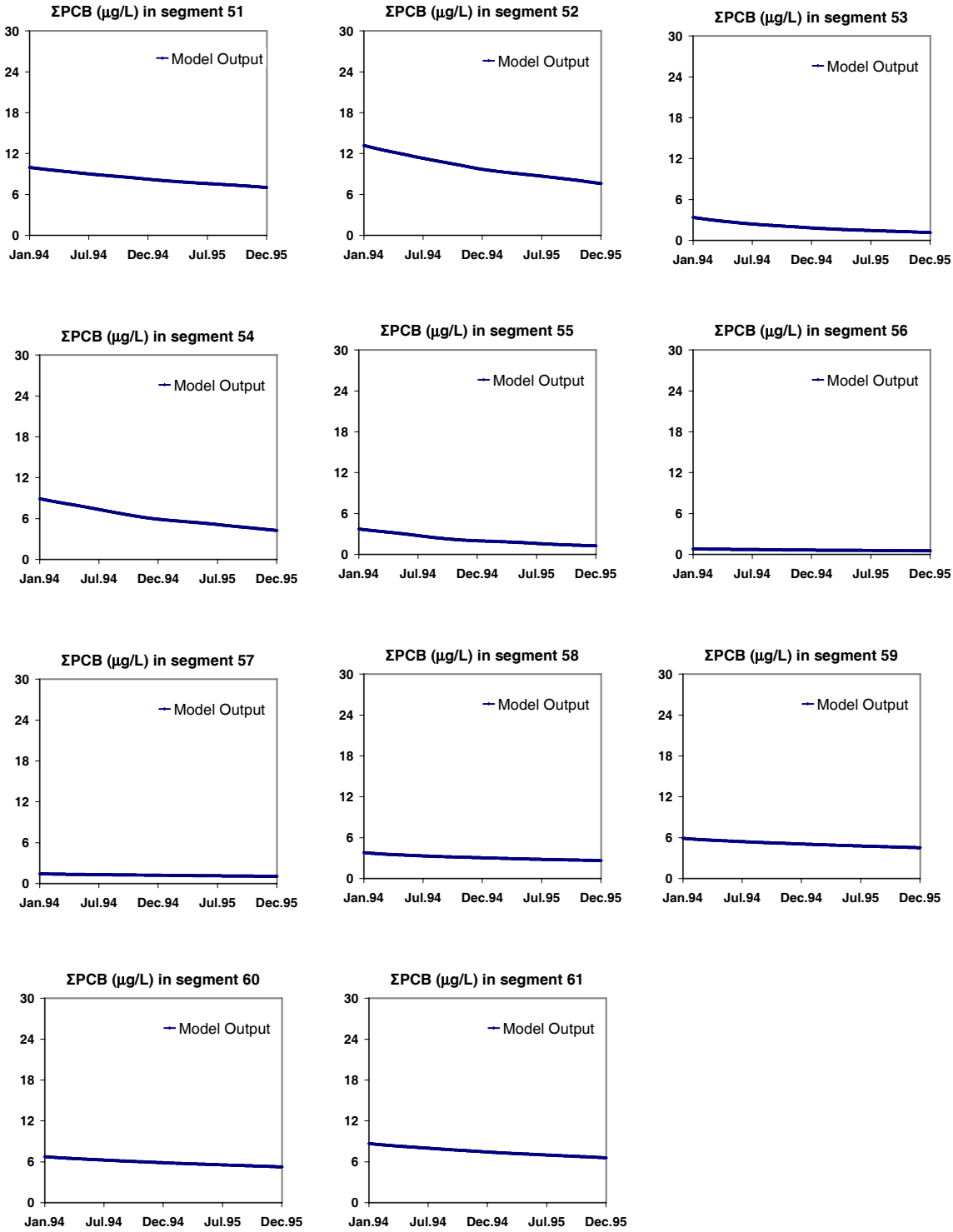

segment 1
segment 2
segment 3
segment 4
segment 5
segment 6
segment 11
segment 12
segment 13
segment 14
segment 15
segment 16
segment 20
segment 21
segment 22
segment 23
segment 24
segment 25
ΣPCB (ng/L)
0
0.1
0.2
0.3
0.4
0.5
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
Cruise Mean
error bars = standard error
ΣPCB (ng/L)
Lake Michigan layers 1, 2, 3
upper 30 meter
water segments


segment 29
segment 30
segment 31
segment 32
segment 33
segment 34
segment 36
segment 37
segment 38
segment 39
segment 40
segment 41
ΣPCB (ng/L)
0.5
0.4
0.3
0.2
0.1
0
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
Cruise Mean
error bars = standard error
ΣPCB (ng/L)
Lake Michigan layers 4 & 5
30 meters to bottom
water segments

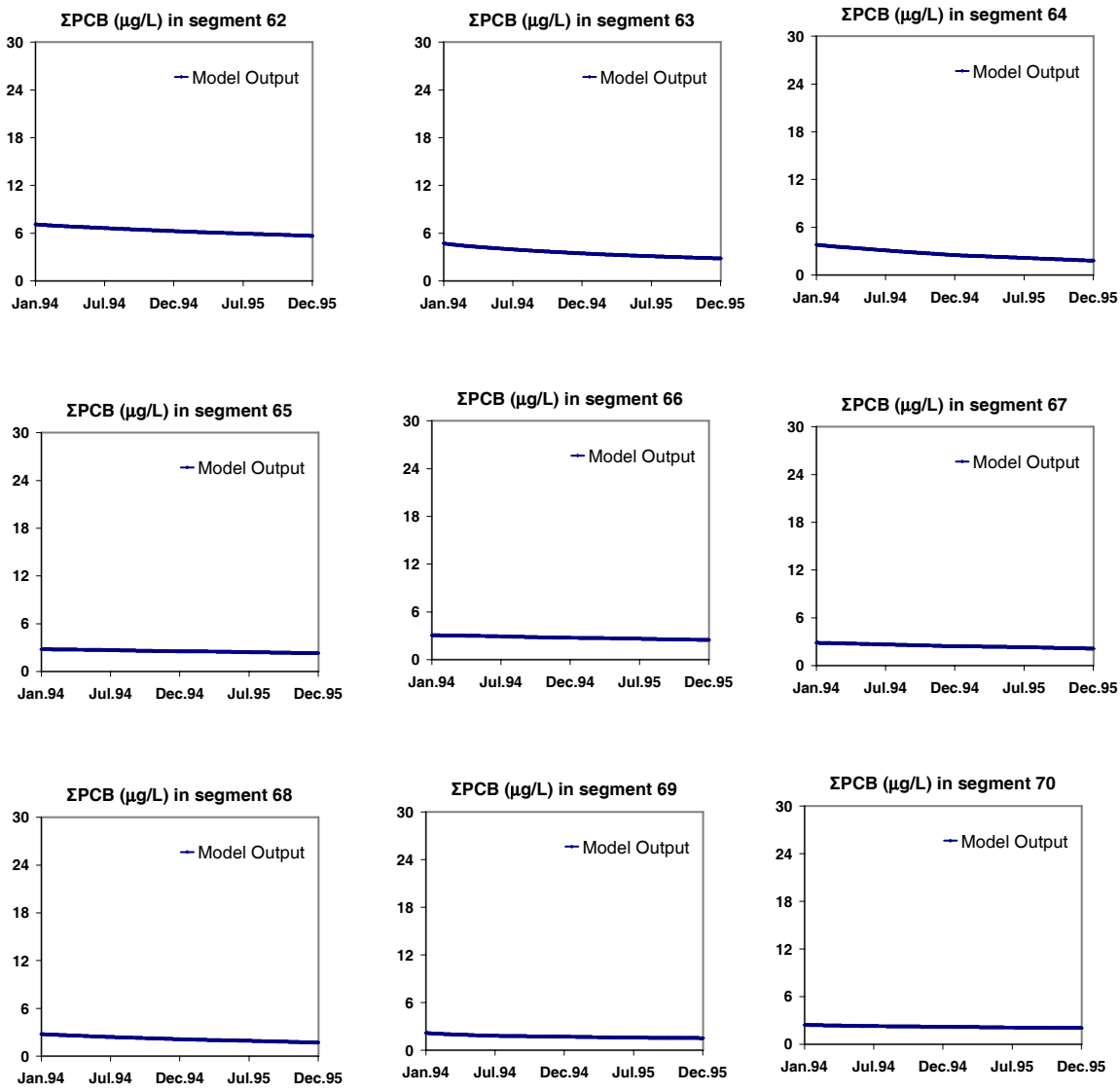

segment 7
segment 8
segment 9
segment 10
segment 17
segment 18
segment 19
segment 26
segment 27
segment 28
segment 35
ΣPCB (ng/L)
Jan94
Jul94
Dec94
Jul95
Dec95
Model Output
Cruise Mean
error bars = standard error
ΣPCB (ng/L)
Green Bay
water segments



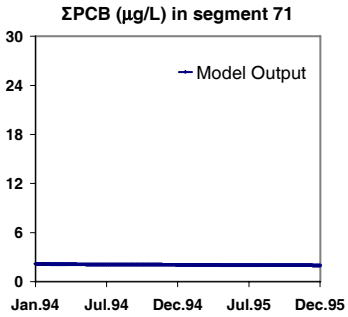
ΣPCBs (dissolved + particulate) (µg/L)
Lake Michigan sediment segments

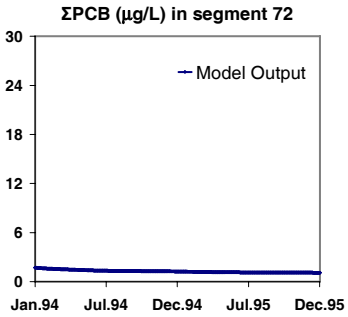


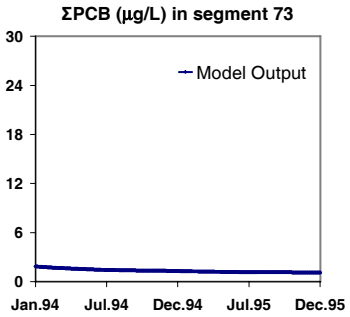
ΣPCBs (dissolved + particulate) (µg/L)
Lake Michigan sediment segments

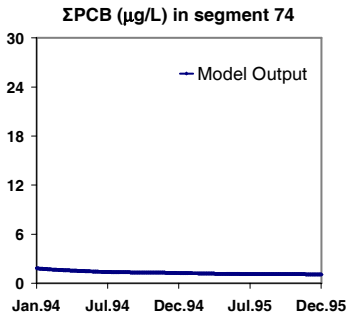


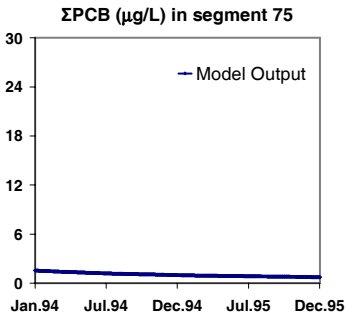
ΣPCBs (dissolved + particulate) (µg/L)
Lake Michigan sediment segments

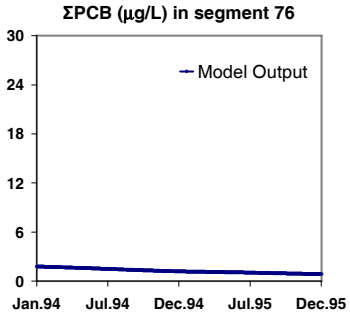


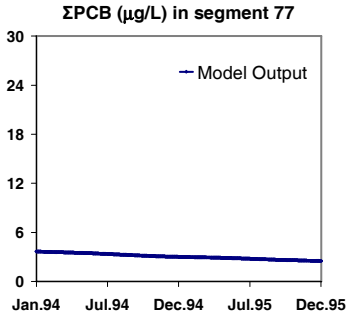




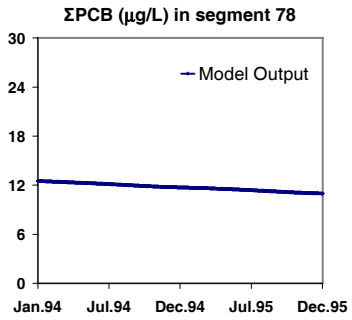


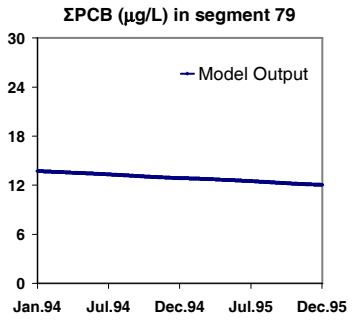


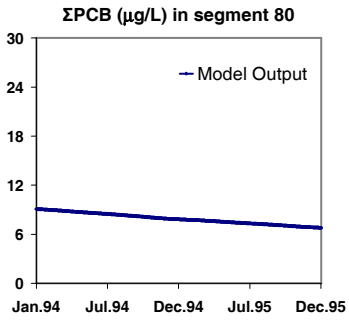


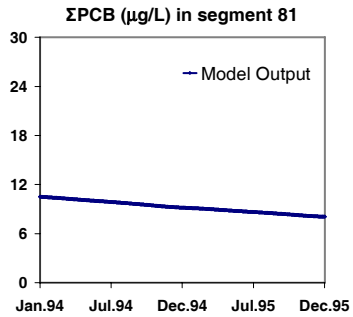


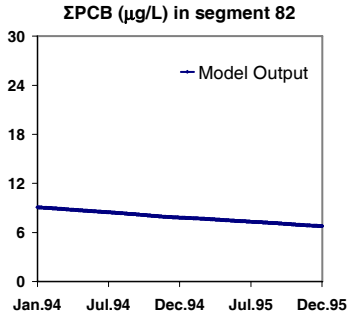
ΣPCBs (dissolved + particulate) (µg/L)
Lake Michigan sediment segments

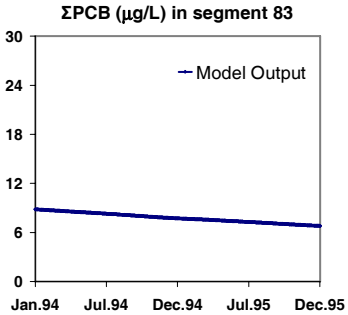


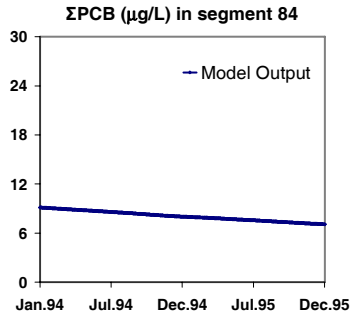


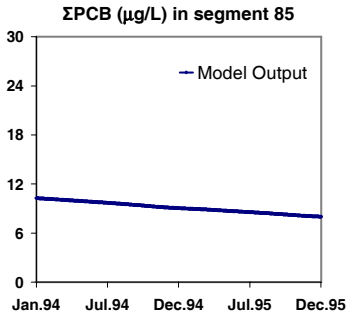


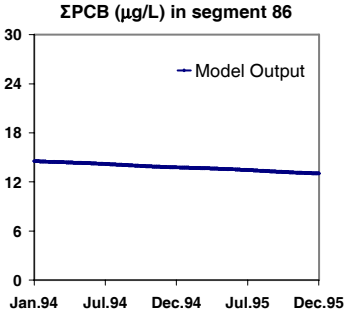




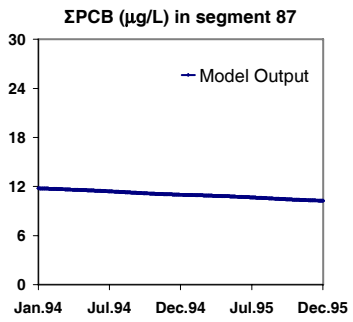


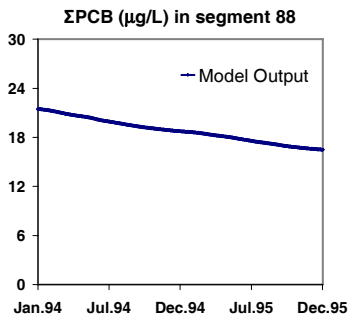


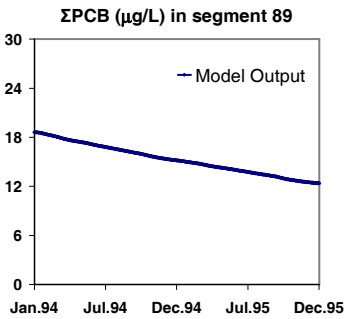


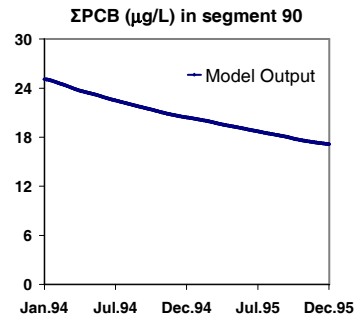


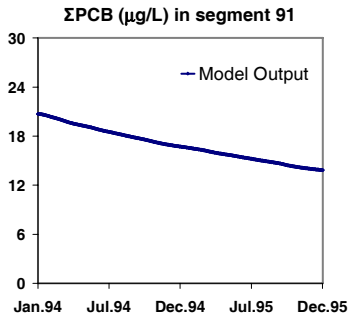
ΣPCBs (dissolved + particulate) (µg/L)
Green Bay sediment segments

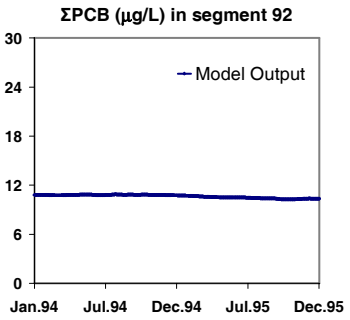


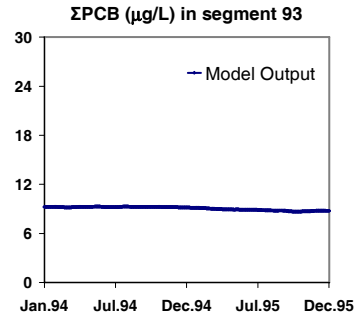


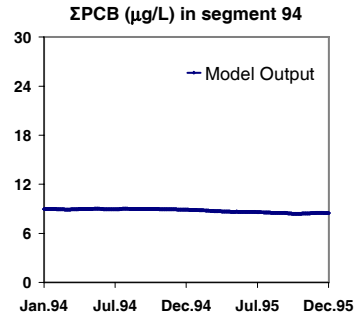












ΣPCBs (dissolved + particulate) (µg/L)
Green Bay sediment segments