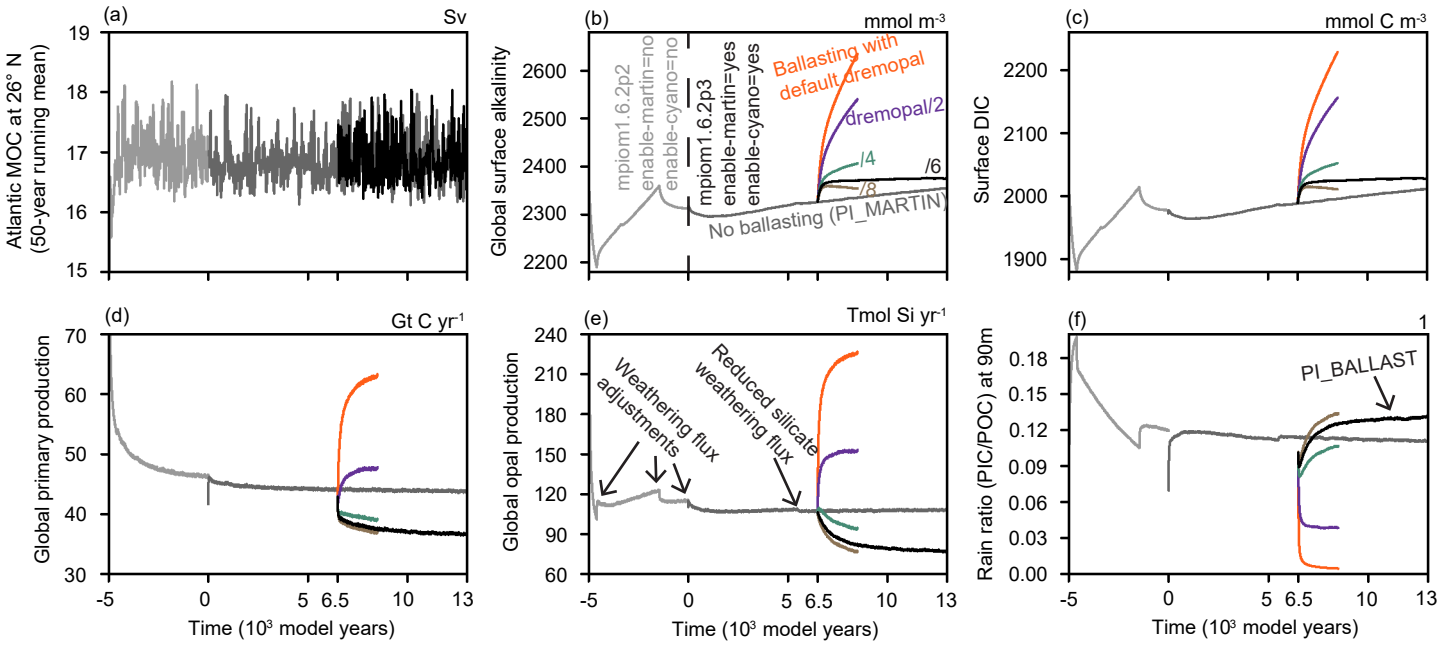
(a)
Sv
Atlantic MOC at 26° N (50-year running mean)
19
18
17
16
15
(b)
mmol m-3
Global surface alkalinity
2600
2500
2400
2300
2200
mpiom1.6.2p2
enable-martin=no
enable-cyano=no
mpiom1.6.2p3
enable-martin=yes
enable-cyano=yes
Ballasting with default dremopal
dremopal/2
/4
/6
/8
No ballasting (PI_MARTIN)
(c)
mmol C m-3
Surface DIC
2200
2100
2000
1900
(d)
Gt C yr-1
Global primary production
70
60
50
40
30
-5
0
5
6.5
10
13
Time (10³ model years)
(e)
Tmol Si yr-1
Global opal production
240
210
180
150
120
90
60
Weathering flux adjustments
Reduced silicate weathering flux
-5
0
5
6.5
10
13
Time (10³ model years)
(f)
1
Rain ratio (PIC/POC) at 90m
0.18
0.15
0.12
0.09
0.06
0.03
0.00
PI_BALLAST
-5
0
5
6.5
10
13
Time (10³ model years)