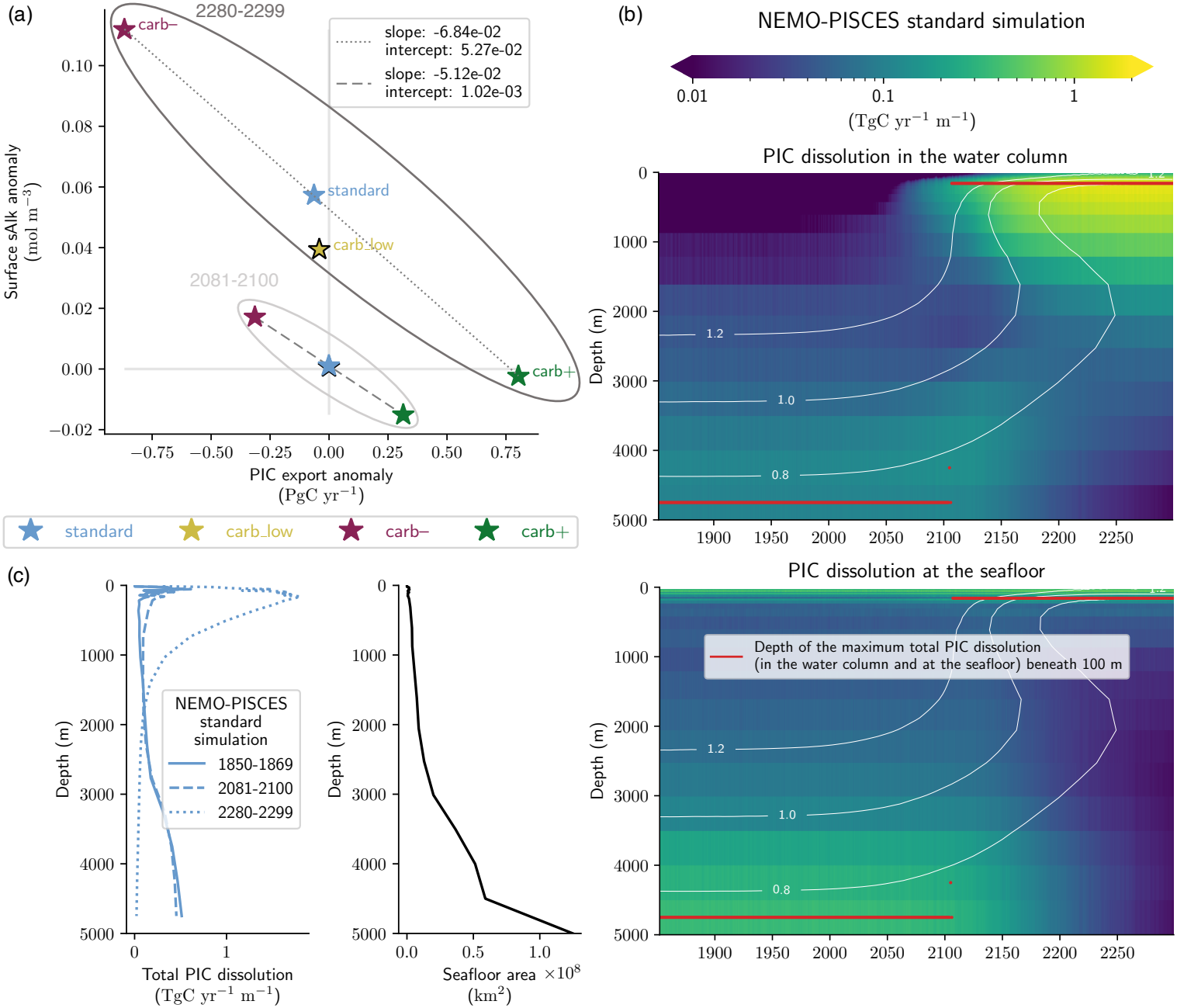
(a)
2280-2299
2081-2100
carb−
standard
carb_low
carb+
slope: -6.84e-02
intercept: 5.27e-02
slope: -5.12e-02
intercept: 1.02e-03
Surface sAlk anomaly
(mol m^{-3})
PIC export anomaly
(PgC yr^{-1})
standard
carb_low
carb−
carb+
(b)
NEMO-PISCES standard simulation
0.01
0.1
1
(TgC yr^{-1} m^{-1})
PIC dissolution in the water column
PIC dissolution at the seafloor
Depth (m)
1.2
1.0
0.8
Depth of the maximum total PIC dissolution
(in the water column and at the seafloor) beneath 100 m
(c)
NEMO-PISCES
standard
simulation
1850-1869
2081-2100
2280-2299
Total PIC dissolution
(TgC yr^{-1} m^{-1})
Seafloor area $\times 10^8$
(km^2)