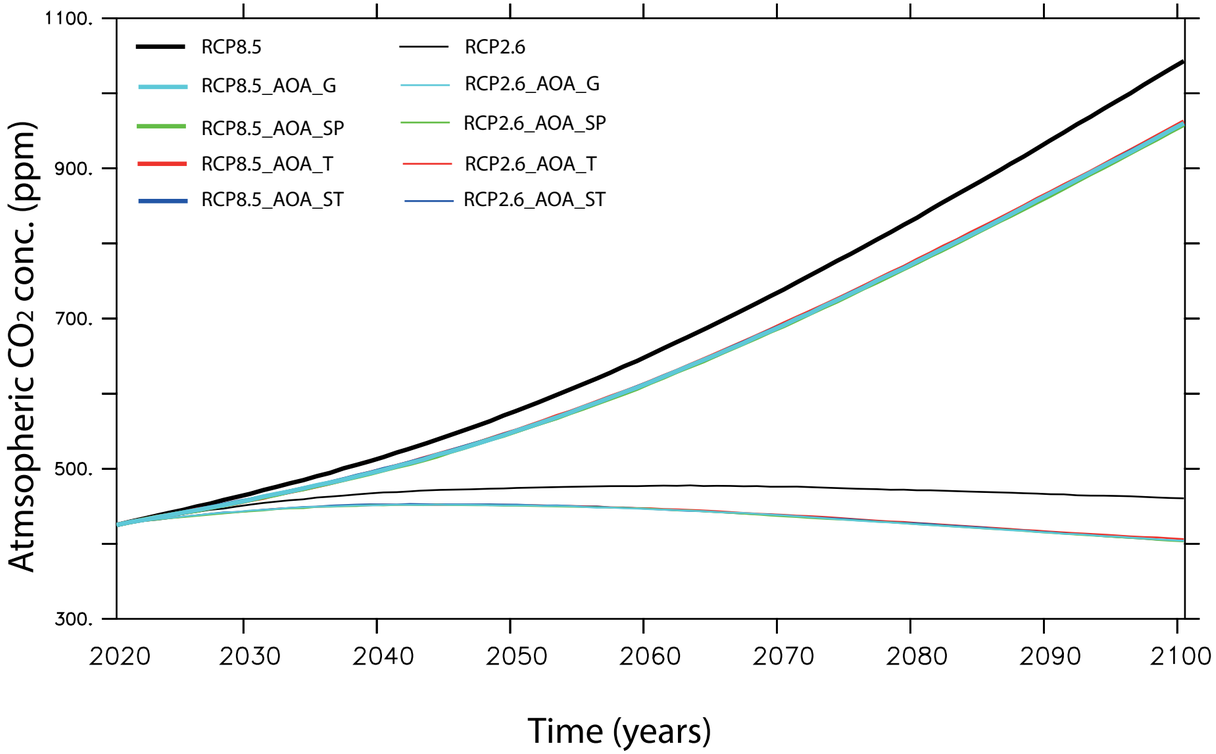
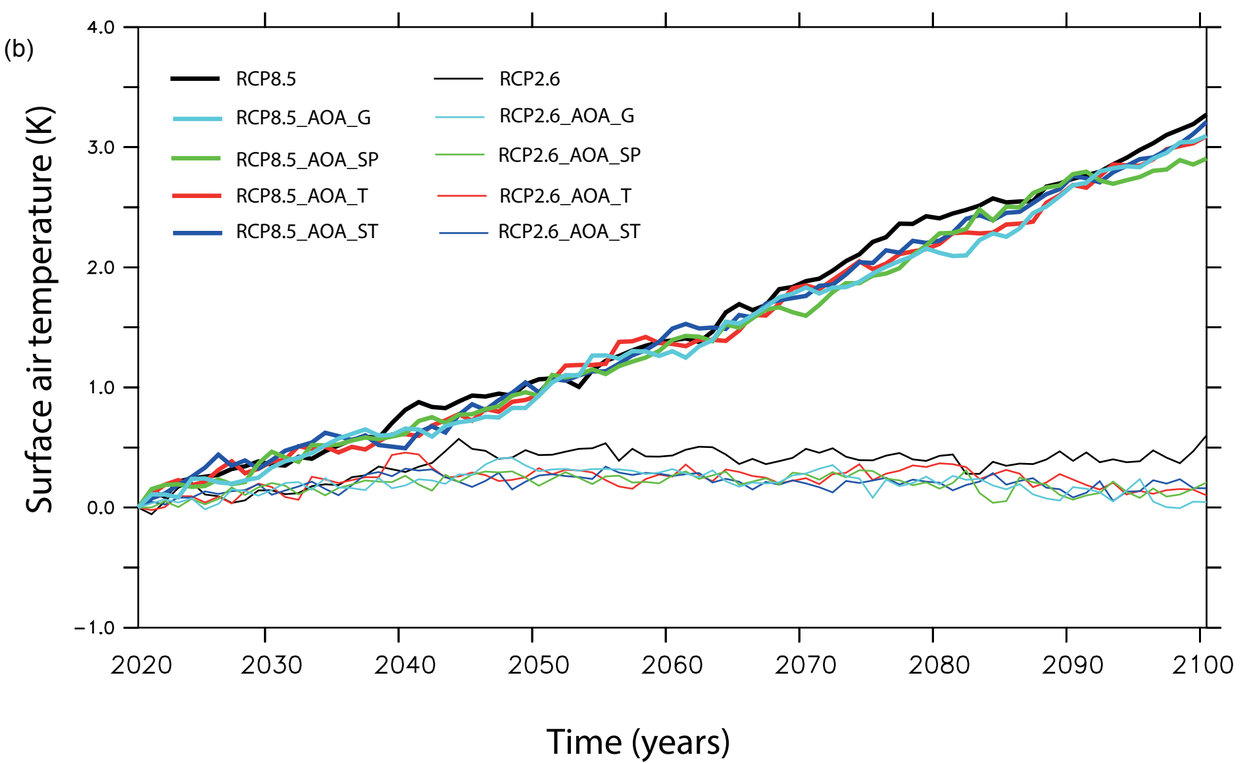
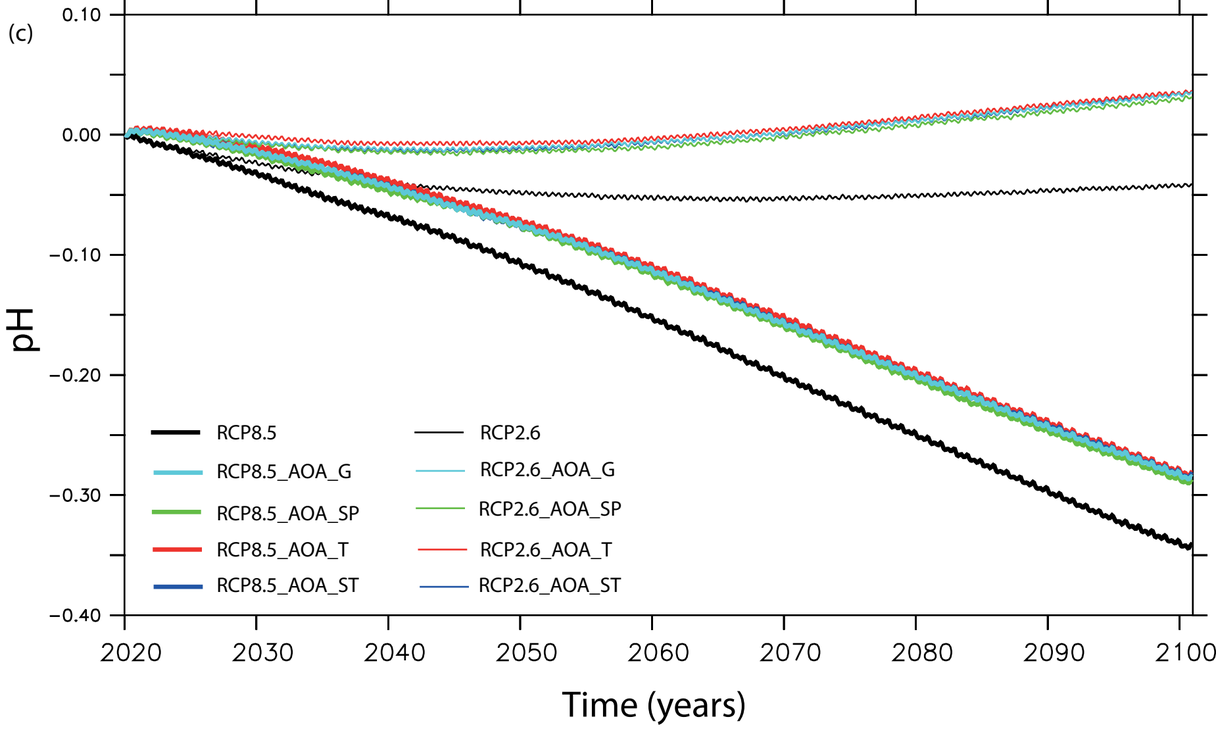
(a)


Atmsopheric CO_2 conc. (ppm)
1100.
900.
700.
500.
300.
2020
2030
2040
2050
2060
2070
2080
2090
2100
Time (years)
RCP8.5
RCP8.5_AOA_G
RCP8.5_AOA_SP
RCP8.5_AOA_T
RCP8.5_AOA_ST
RCP2.6
RCP2.6_AOA_G
RCP2.6_AOA_SP
RCP2.6_AOA_T
RCP2.6_AOA_ST

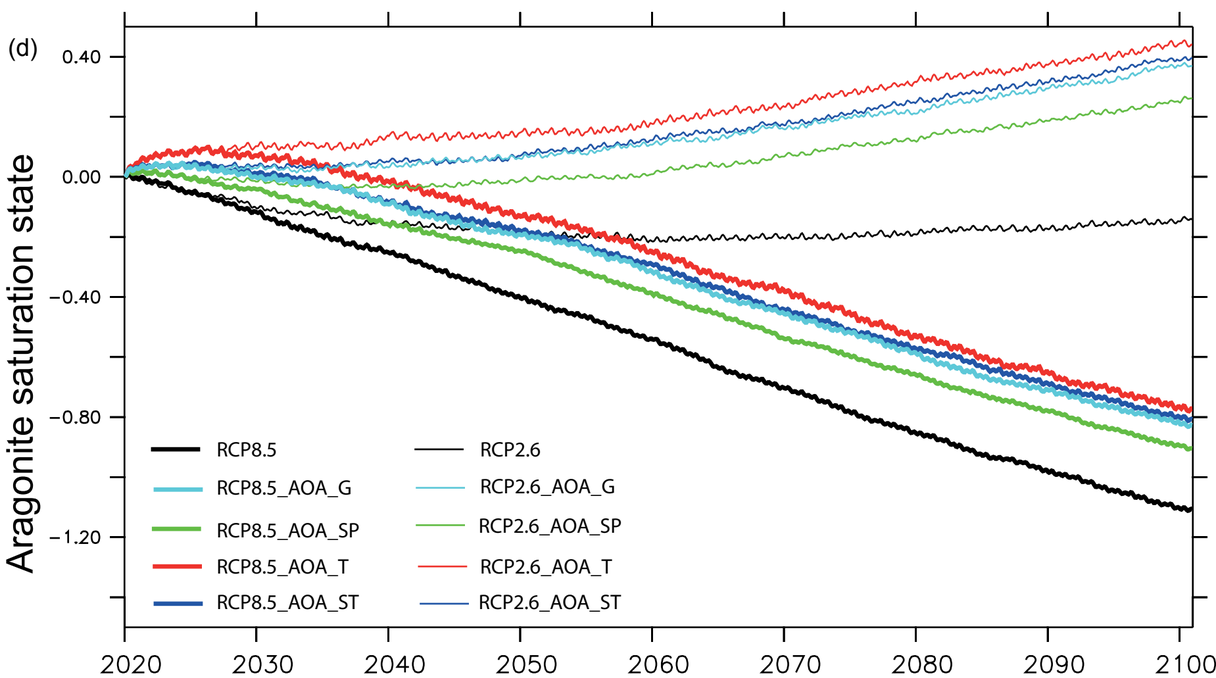
(b)


Surface air temperature (K)
4.0
3.0
2.0
1.0
0.0
−1.0
2020
2030
2040
2050
2060
2070
2080
2090
2100
Time (years)
RCP8.5
RCP8.5_AOA_G
RCP8.5_AOA_SP
RCP8.5_AOA_T
RCP8.5_AOA_ST
RCP2.6
RCP2.6_AOA_G
RCP2.6_AOA_SP
RCP2.6_AOA_T
RCP2.6_AOA_ST

(c)


pH
0.10
0.00
−0.10
−0.20
−0.30
−0.40
2020
2030
2040
2050
2060
2070
2080
2090
2100
Time (years)
RCP8.5
RCP8.5_AOA_G
RCP8.5_AOA_SP
RCP8.5_AOA_T
RCP8.5_AOA_ST
RCP2.6
RCP2.6_AOA_G
RCP2.6_AOA_SP
RCP2.6_AOA_T
RCP2.6_AOA_ST

(d)


Aragonite saturation state
0.40
0.00
−0.40
−0.80
−1.20
2020
2030
2040
2050
2060
2070
2080
2090
2100
Time (years)
RCP8.5
RCP8.5_AOA_G
RCP8.5_AOA_SP
RCP8.5_AOA_T
RCP8.5_AOA_ST
RCP2.6
RCP2.6_AOA_G
RCP2.6_AOA_SP
RCP2.6_AOA_T
RCP2.6_AOA_ST