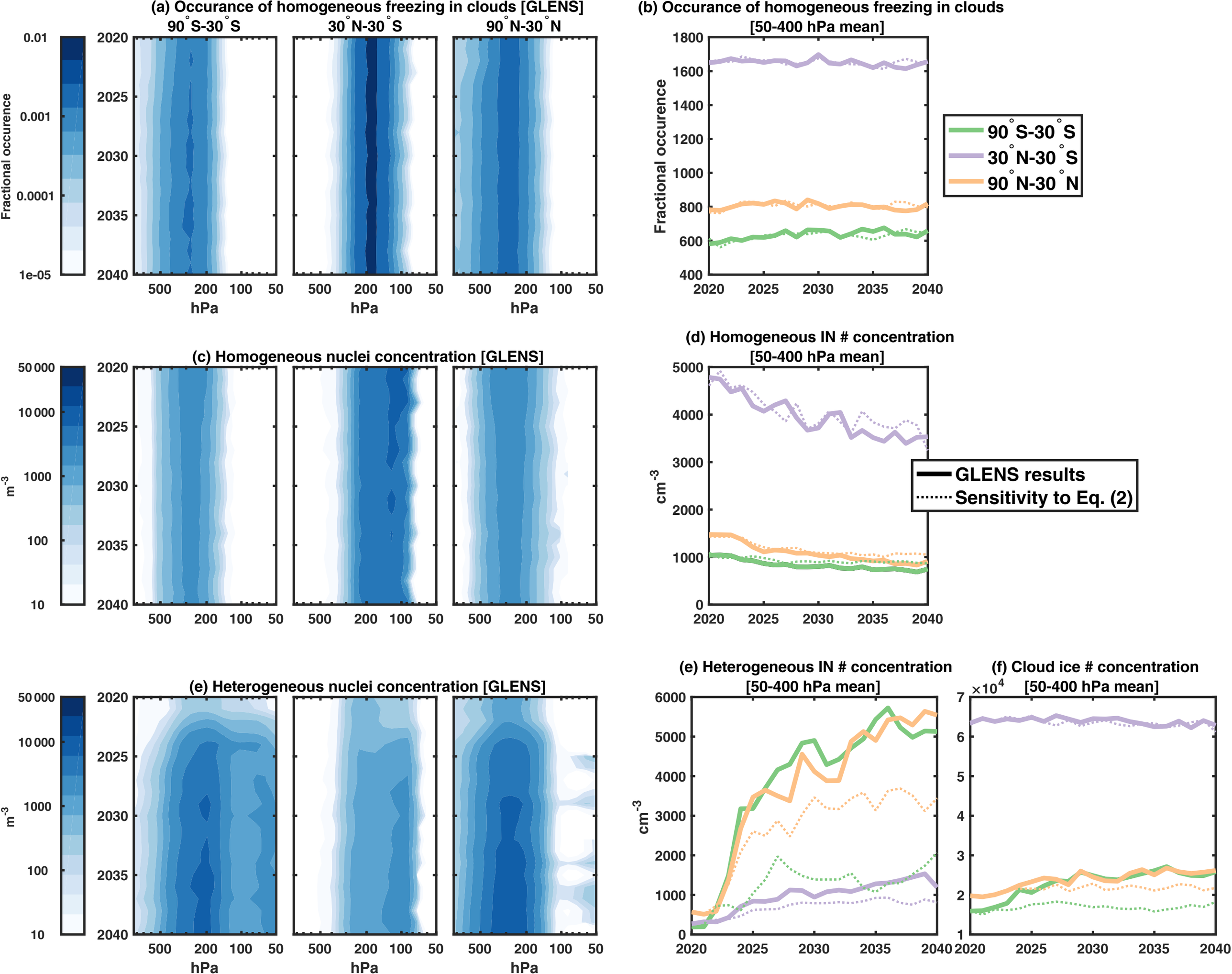
(a) Occurance of homogeneous freezing in clouds [GLENS]
90°S-30°S
30°N-30°S
90°N-30°N
Fractional occurence
0.01
0.001
0.0001
1e-05
2020
2025
2030
2035
2040
500
200
100
50
hPa
(b) Occurance of homogeneous freezing in clouds
[50-400 hPa mean]
Fractional occurence
1800
1600
1400
1200
1000
800
600
400
90°S-30°S
30°N-30°S
90°N-30°N
(c) Homogeneous nuclei concentration [GLENS]
m-3
50 000
10 000
1000
100
10
(d) Homogeneous IN # concentration
[50-400 hPa mean]
cm-3
5000
4000
3000
2000
1000
0
GLENS results
Sensitivity to Eq. (2)
(e) Heterogeneous nuclei concentration [GLENS]
(e) Heterogeneous IN # concentration
[50-400 hPa mean]
(f) Cloud ice # concentration
[50-400 hPa mean]
×10^4