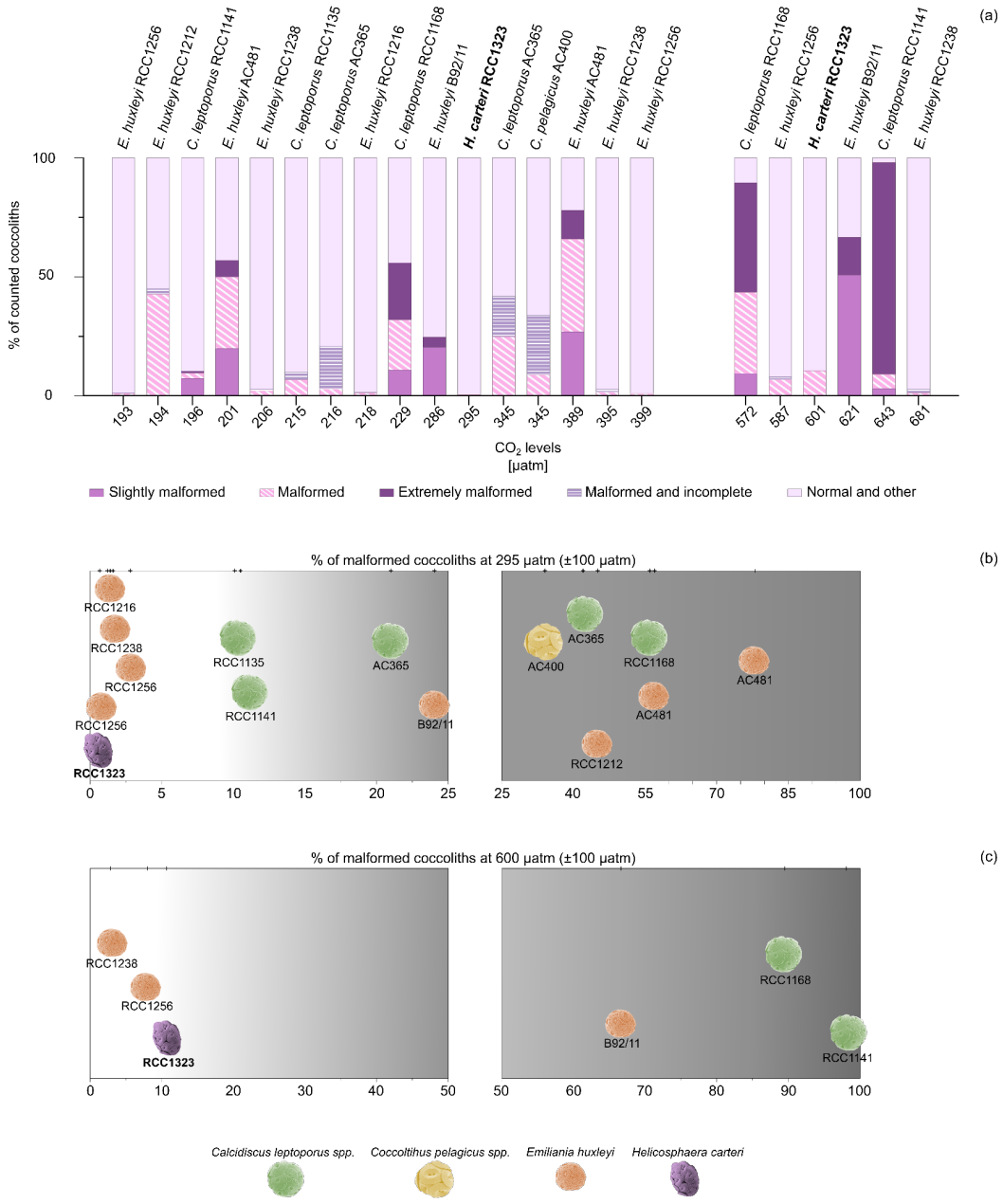
(a)
E. huxleyi RCC1256
E. huxleyi RCC1212
C. leptoporus RCC1141
E. huxleyi AC481
E. huxleyi RCC1238
C. leptoporus RCC1135
C. leptoporus AC365
E. huxleyi RCC1216
C. leptoporus RCC1168
E. huxleyi B92/11
H. carteri RCC1323
C. leptoporus AC365
C. pelagicus AC400
E. huxleyi AC481
E. huxleyi RCC1238
E. huxleyi RCC1256
C. leptoporus RCC1168
E. huxleyi RCC1256
H. carteri RCC1323
E. huxleyi B92/11
C. leptoporus RCC1141
E. huxleyi RCC1238
% of counted coccoliths
100
50
0
193
194
196
201
206
215
216
218
229
286
295
345
345
389
395
399
572
587
601
621
643
681
CO2 levels
[µatm]
Slightly malformed
Malformed
Extremely malformed
Malformed and incomplete
Normal and other
(b)
% of malformed coccoliths at 295 µatm (±100 µatm)
RCC1216
RCC1238
RCC1256
RCC1256
RCC1323
RCC1135
RCC1141
AC365
B92/11
AC365
AC400
RCC1168
AC481
AC481
RCC1212
0
5
10
15
20
25
25
40
55
70
85
100
(c)
% of malformed coccoliths at 600 µatm (±100 µatm)
RCC1238
RCC1256
RCC1323
RCC1168
B92/11
RCC1141
0
10
20
30
40
50
50
60
70
80
90
100
Calcidiscus leptoporus spp.
Coccolithus pelagicus spp.
Emiliania huxleyi
Helicosphaera carteri