Supplemental Materials:

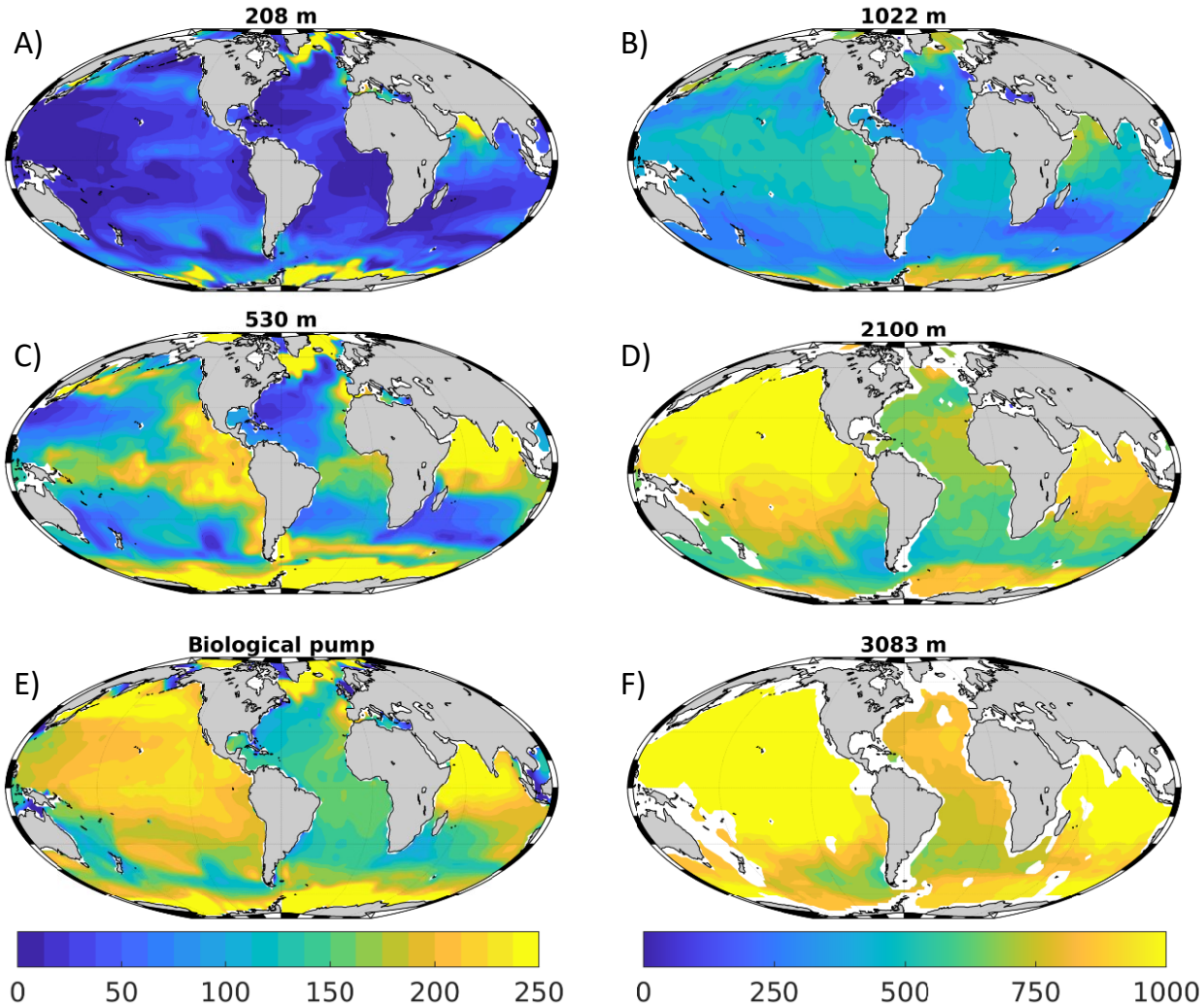

Figure S1: Geographic variation in mean mean sequestration times for injection depths of A) 208, B) 1022, C) 530, D) 2100 and F) 3083 m and for E) the case where the discharge follows a Martin curve profile with a power law exponent of 0.8. The left color bar is used for panels A, C and E while the right color bar is used for panels D, E and F.

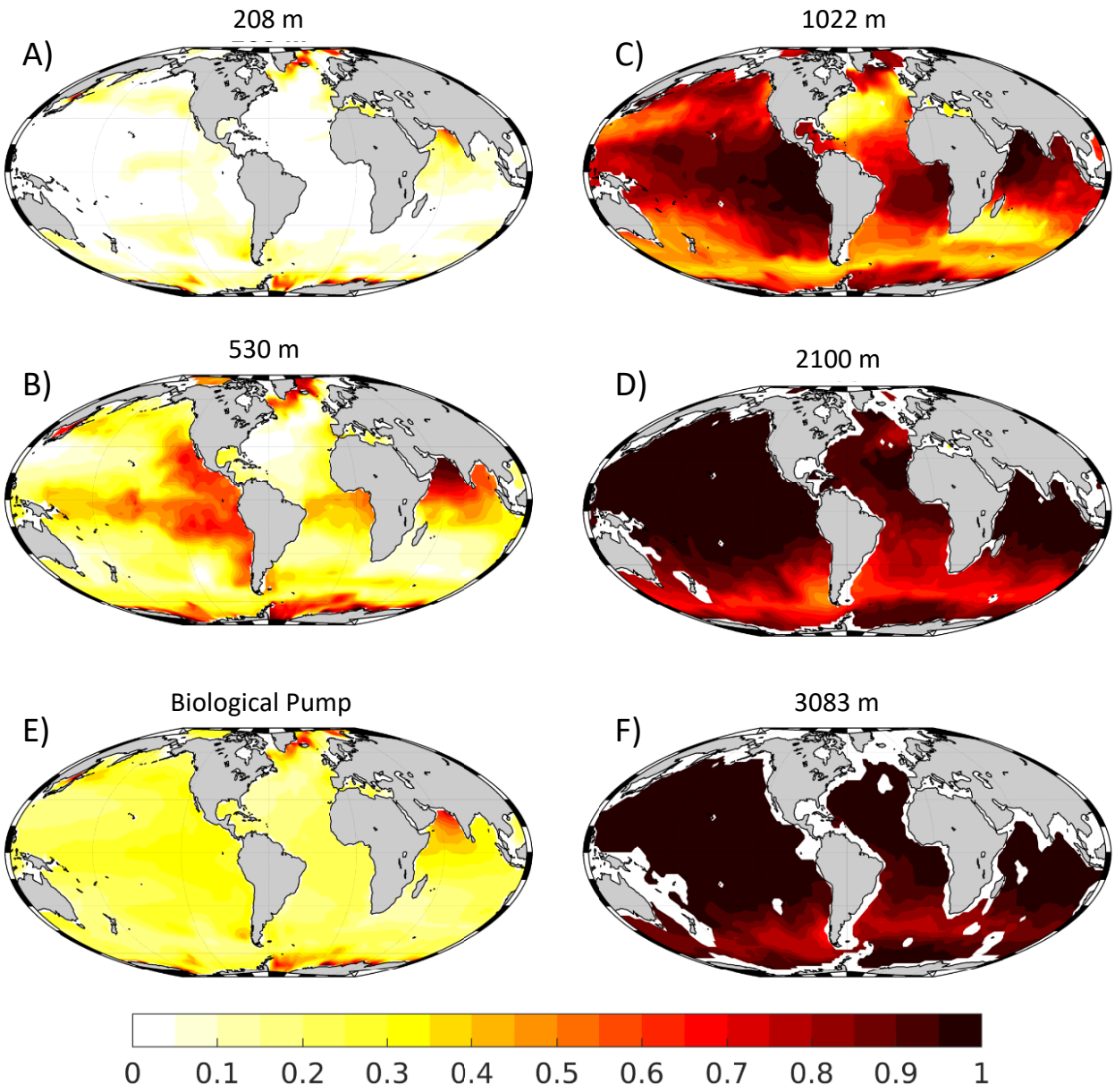

Figure S2: Maps of the fraction of CO_2 retention after 100 years for injection depths of A) 208, B) 530, C) 1022, D) 2100 and F) 3083 m and E) the case where the discharge follows a Martin curve profile with a power law exponent of 0.8.

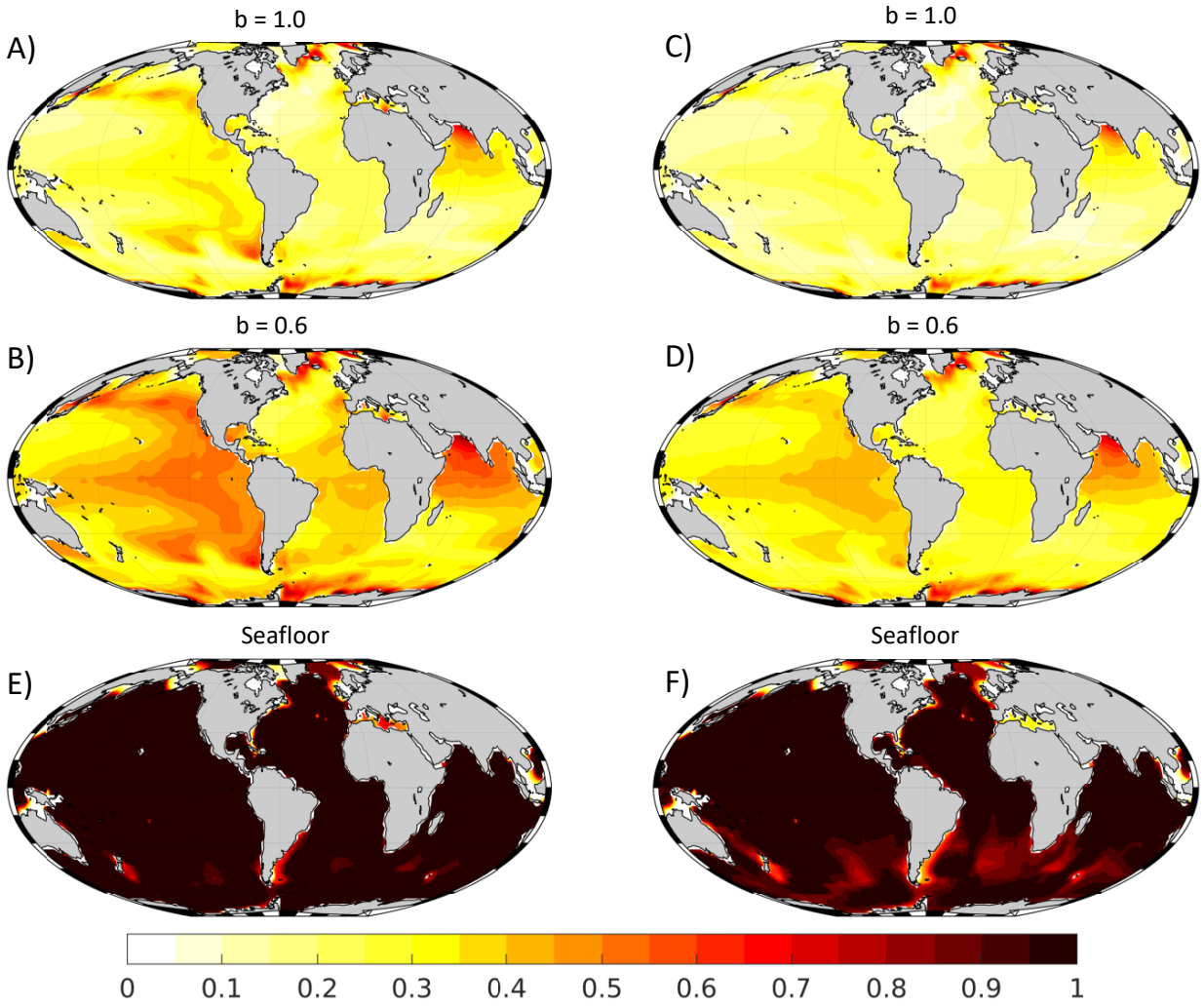

Figure S3: Maps of the fraction of CO_2 retention following a Martin curve remineralization profile for the cases A) b = 0.6 & T = 50 years, B) b = 0.6 & T = 100 years, C) b = 1.0 & T = 50 years and D) b = 1.0 & T = 100 years. Cases E) and F) illustrate the fraction of CO_2 retention where CO2 is injected on the bottom active grid location of the OCIM model after 50 and 100 years, respectively.