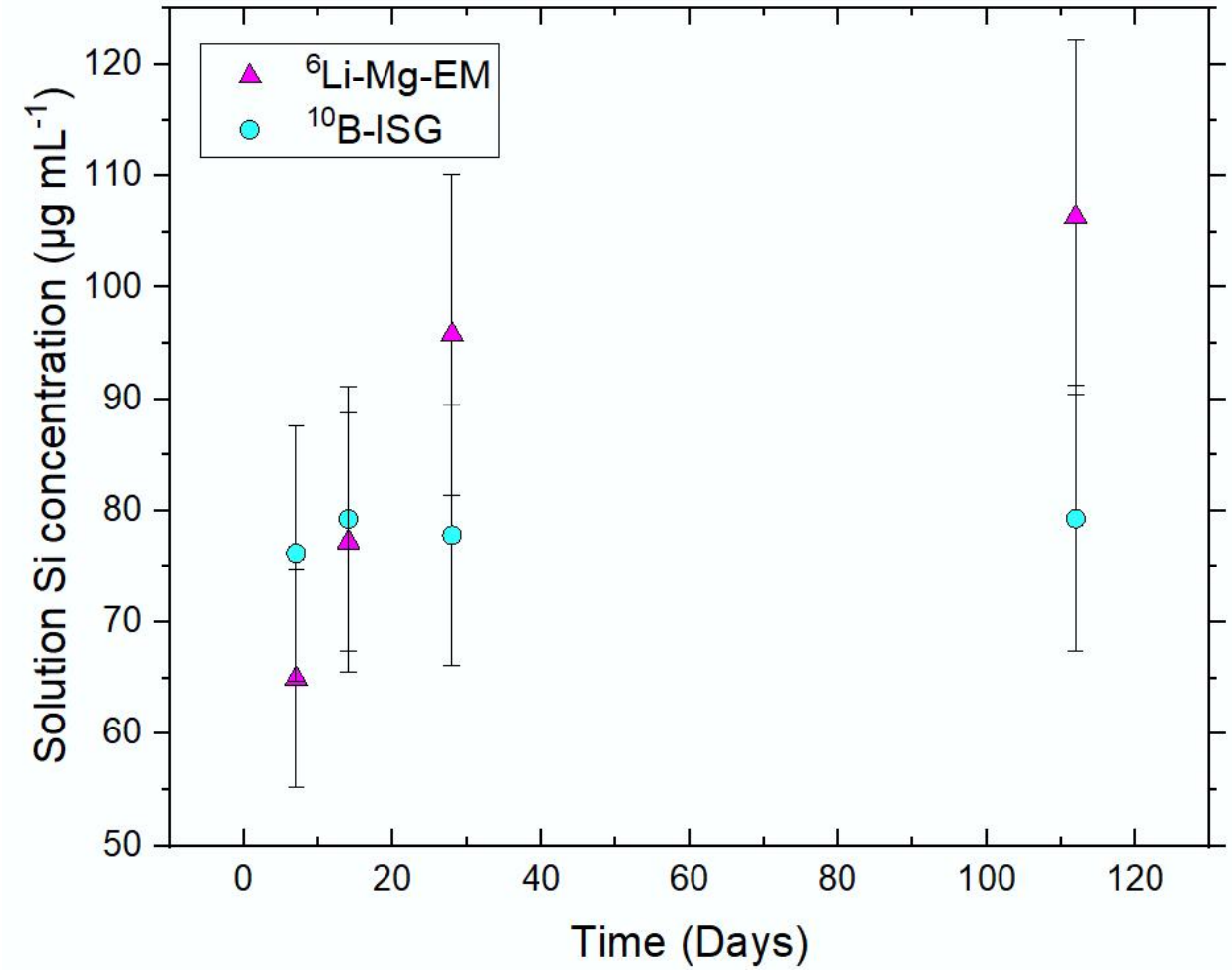

Supplementary Fig. S2. Solution Si concentrations from equivalent experiments under the same conditions used herein on glasses without isotopic spiking (Li-Mg-EM and Li-ISG); experiments given in Gin et al. 2012 and Goût et al. 2019a, b[6,10,11]. *Due to the large dilution factors required for concentration measurements of B under clean laboratory, low B conditions, many of the Si concentrations post-dilution in the experiments herein were below instrument detection limits. These data are shown to approximately indicate the times at which a pseudo-steady state Si concentration was reached in solution and are presented solely to provide a qualitative comparison of such timescales. Uncertainties are given as relative S.D. of 15% on each measurement, with each point as an average (n = 3).*

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