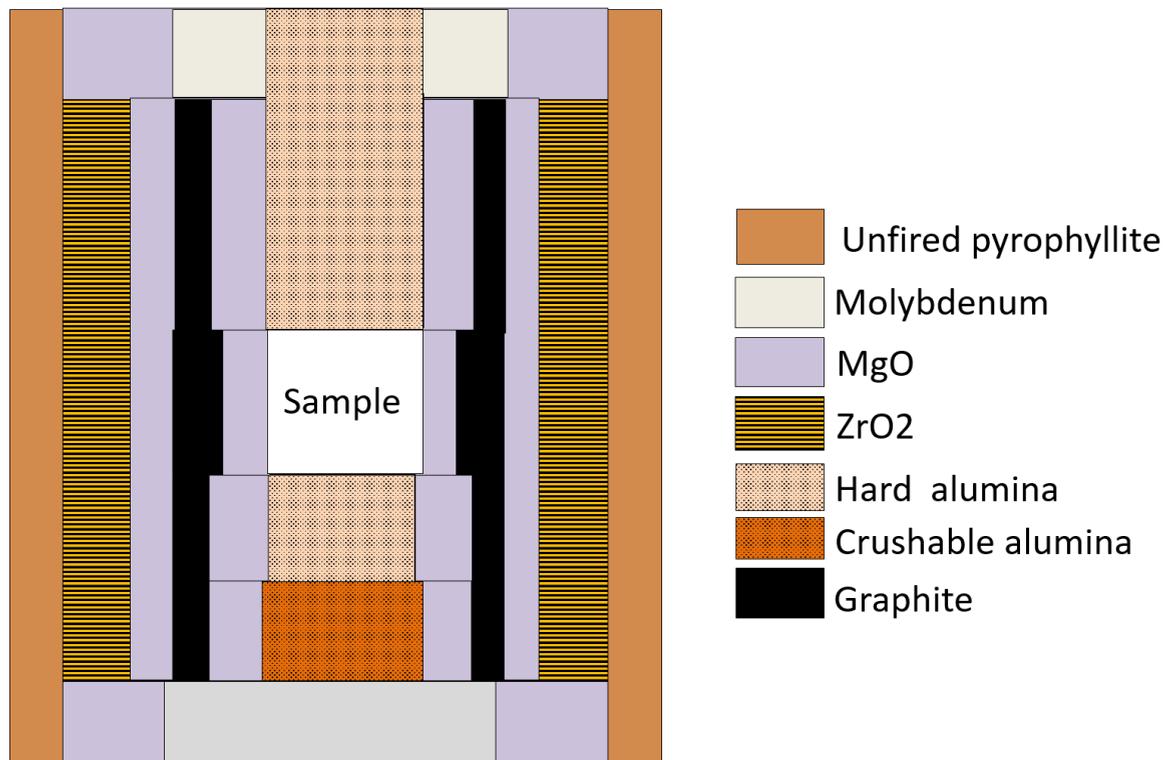
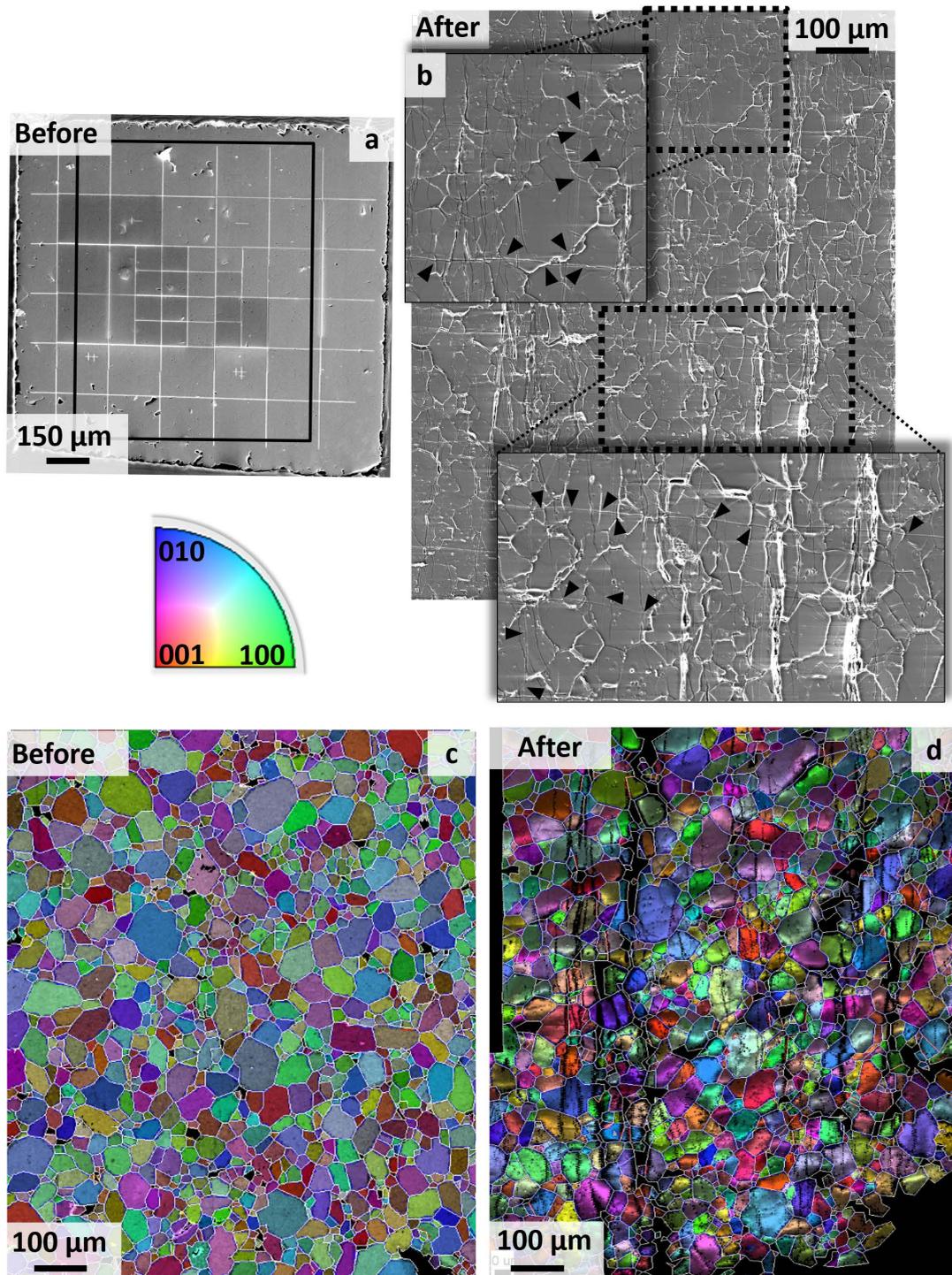


Figure A



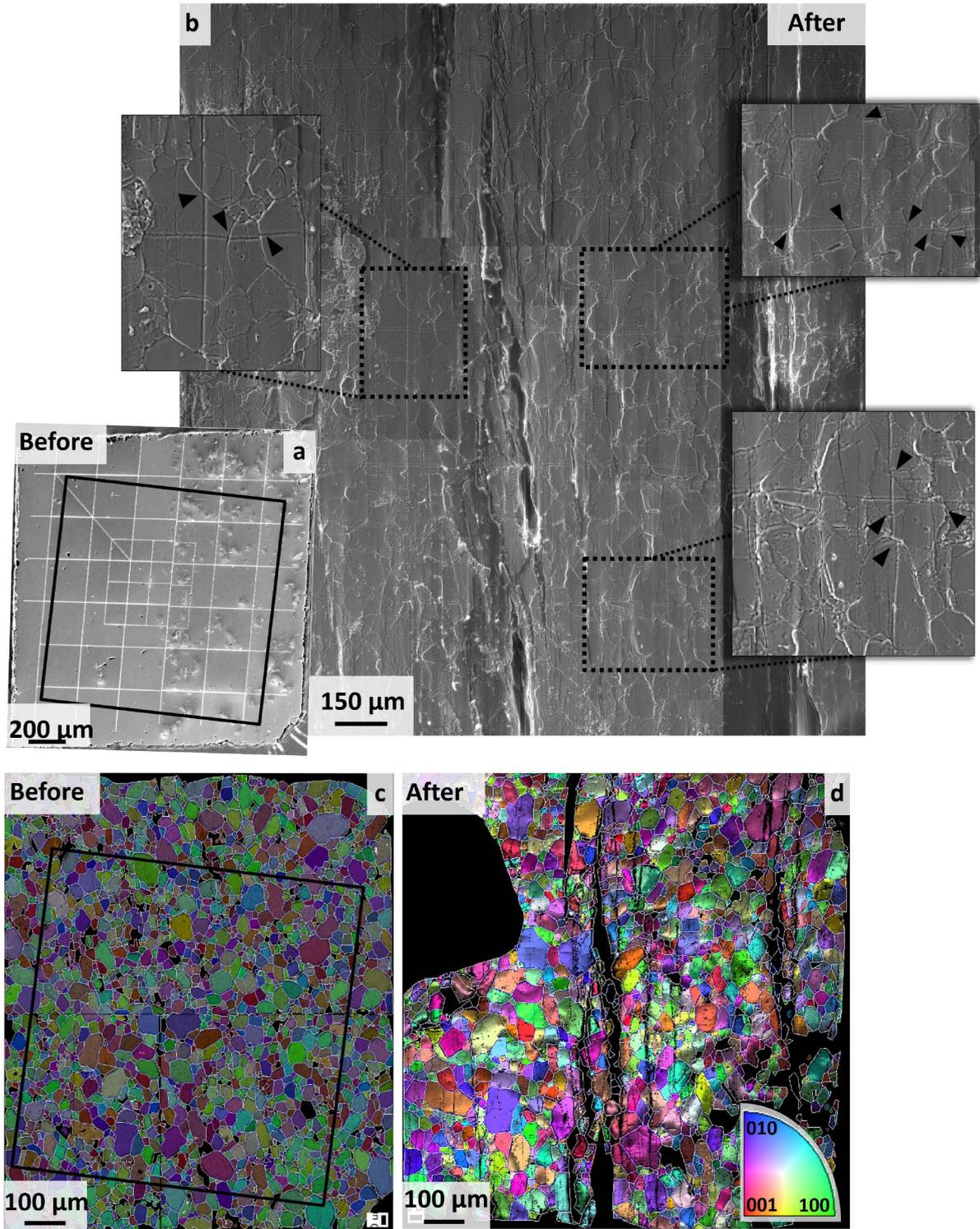
SUPPLEMENTAL FIGURE A. The 8 mm unfired pyrophyllite cell assembly.

Figure B



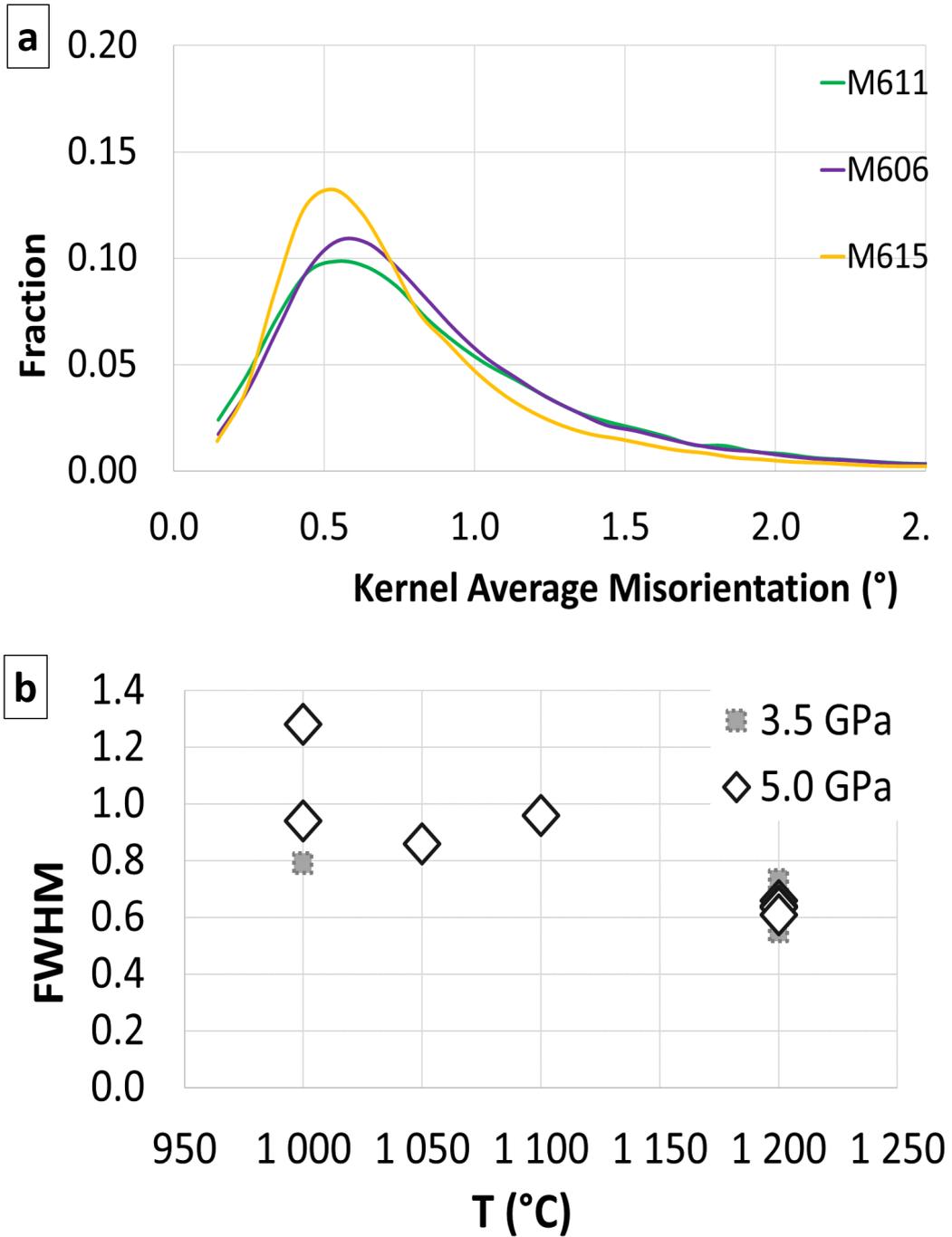
SUPPLEMENTAL FIGURE B. M582 (GBiF1-15-8mm) - 5.0 GPa; 1000 °C; $\dot{\epsilon}=2.0 \times 10^{-5} \text{ s}^{-1}$; $\epsilon_p=30\%$. (a) SE picture before deformation showing the grid. (b) SE picture after deformation. (c) Inverse pole orientation before deformation with the colored insert (*Pnma*) as reference. (d) Inverse pole orientation after deformation.

Figure C



SUPPLEMENTAL FIGURE C. M585 (GBiF1-16-8mm) - 5.5 GPa; 1050 °C; $\dot{\epsilon}=1.1 \times 10^{-5} \text{ s}^{-1}$; $\epsilon_p=17\%$. (a) SE picture before deformation showing the grid. (b) SE picture after deformation. (c) Inverse pole orientation before deformation with the colored insert (*Pnma*) as reference. (d) Inverse pole orientation after deformation.

Figure D



SUPPLEMENTAL FIGURE D. (a) KAM distribution for all the samples deformed at 3.5 GPa. (b) The full width at half-maximum (FWHM) as a function of the temperature, in gray for experiments at 3.5 GPa, superposed to experiments at 5.0 GPa in white diamonds.