

# Estimation of Localized O<sub>2</sub> Starvation regions Using 3D Modelling for PEM Fuel Cells

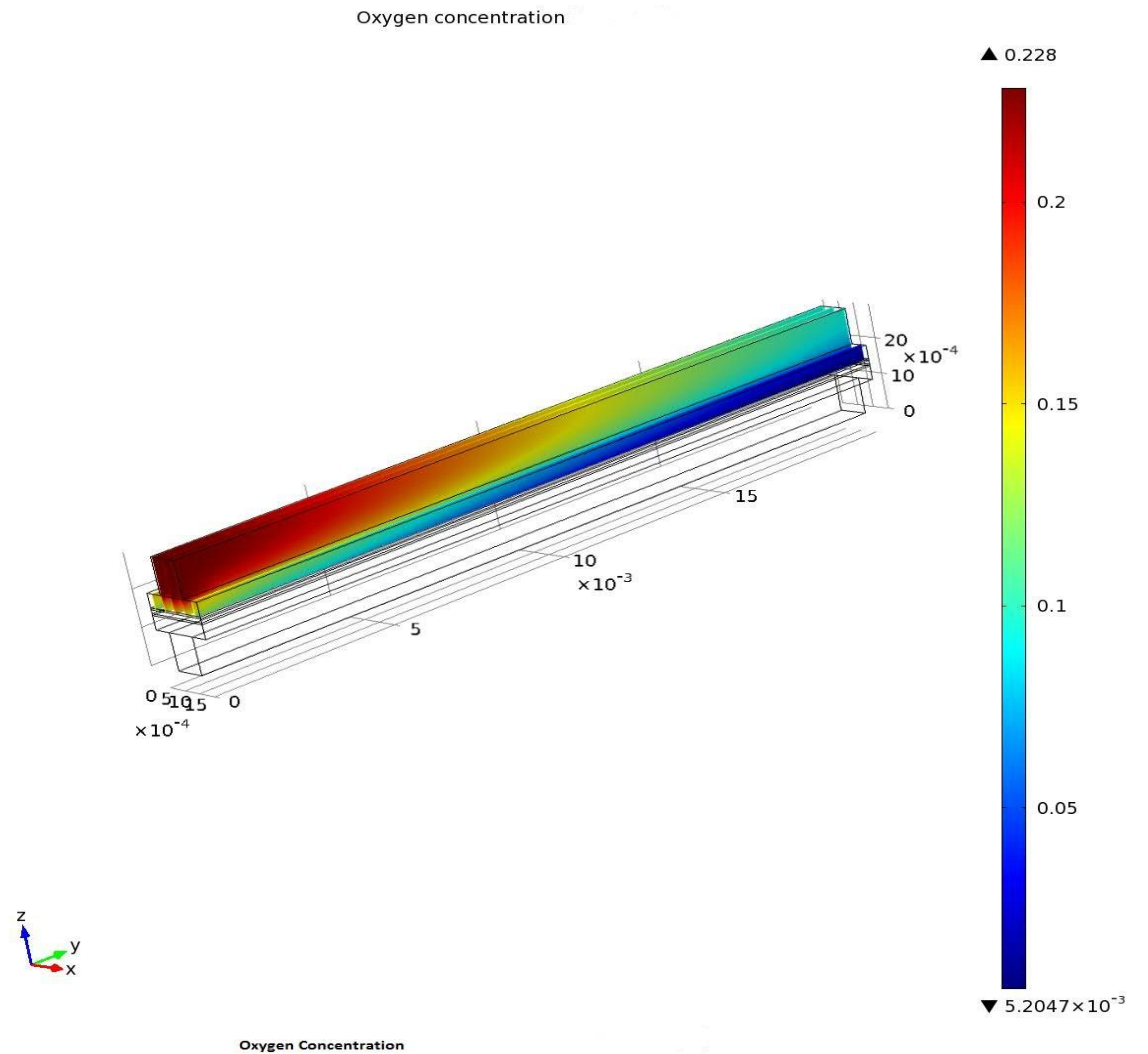
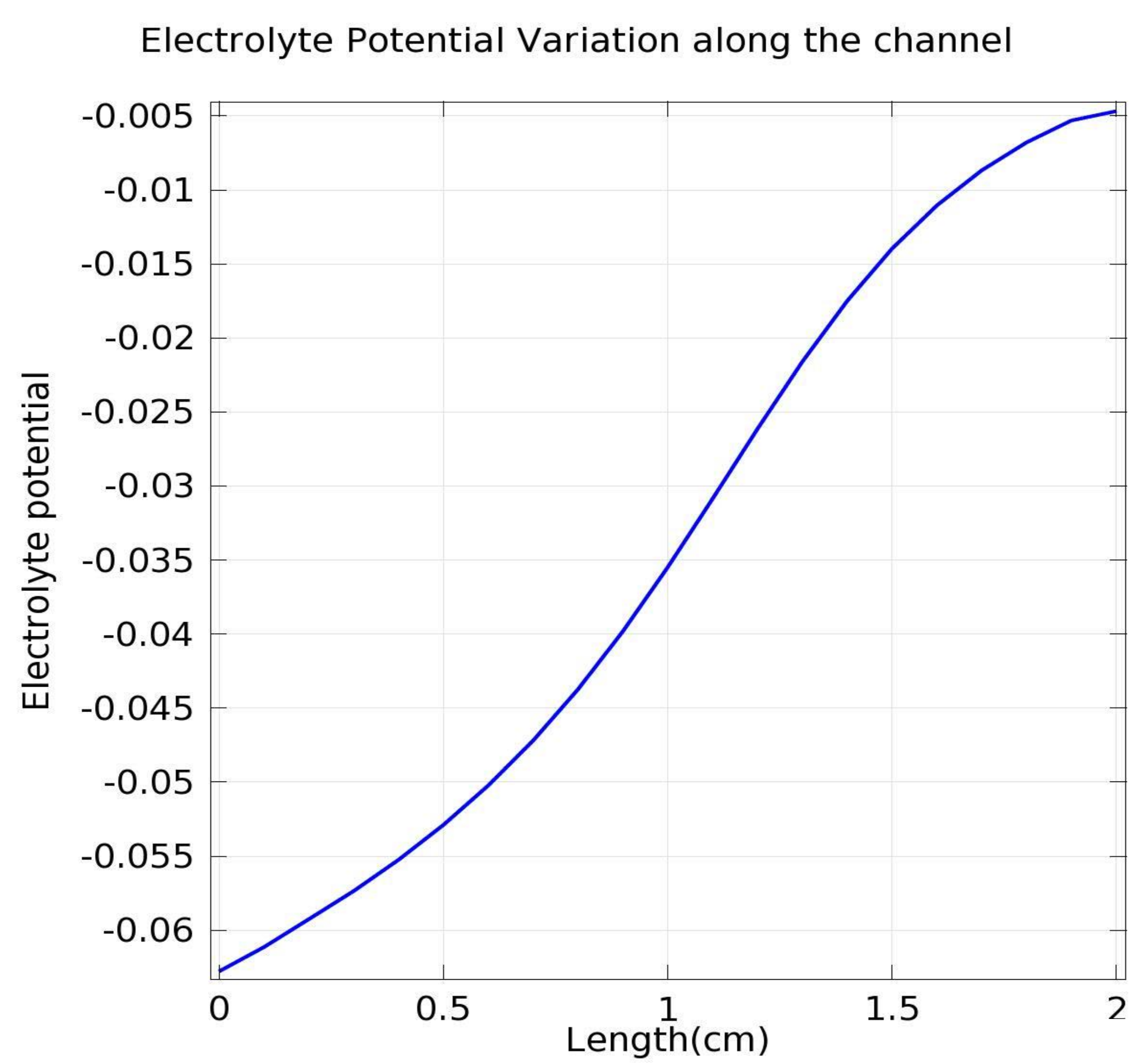
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Medium Oxygen Starvation

Atmospheric humidity increased to 50%

Max Power density 220 mW/cm<sup>2</sup>

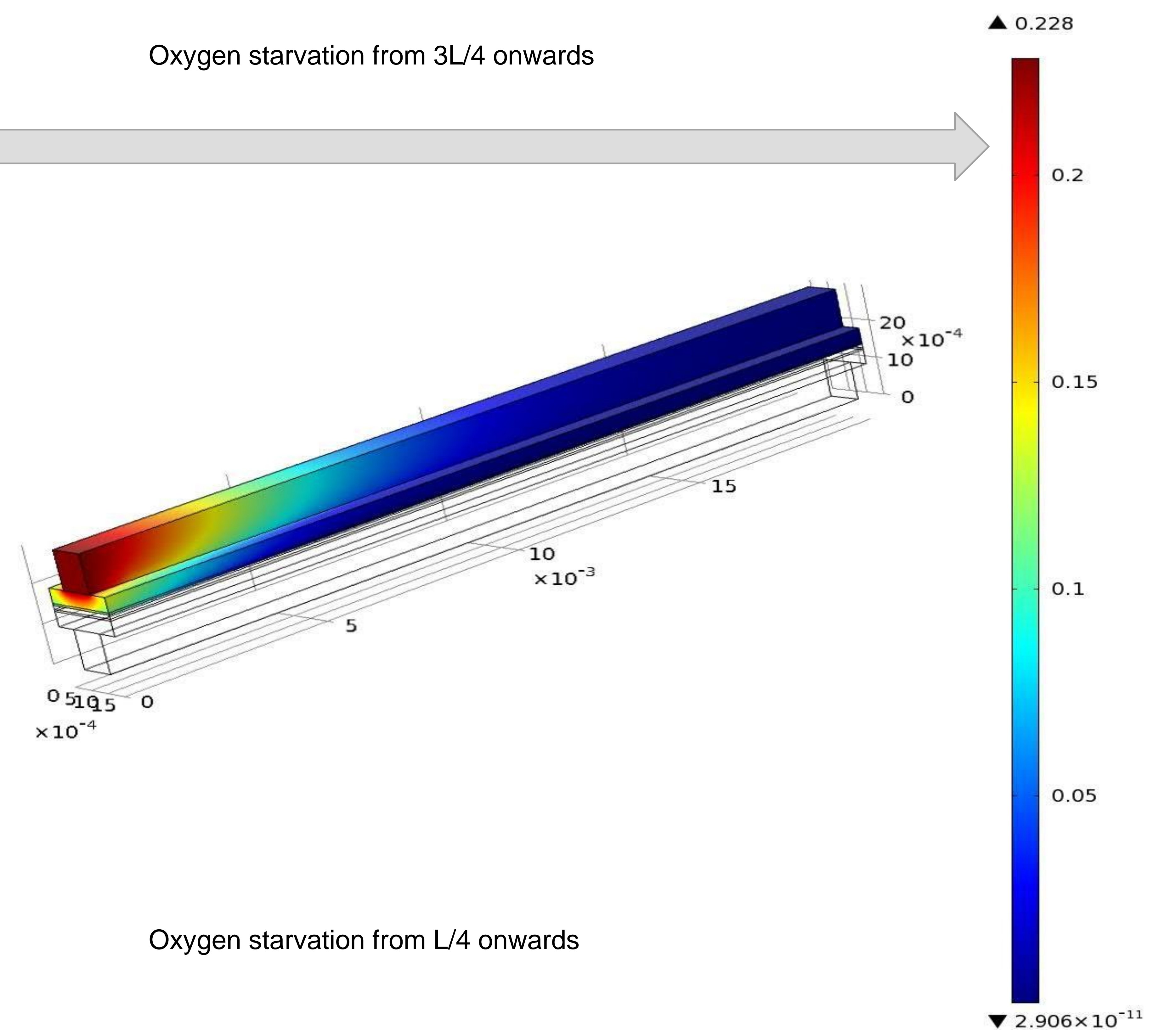
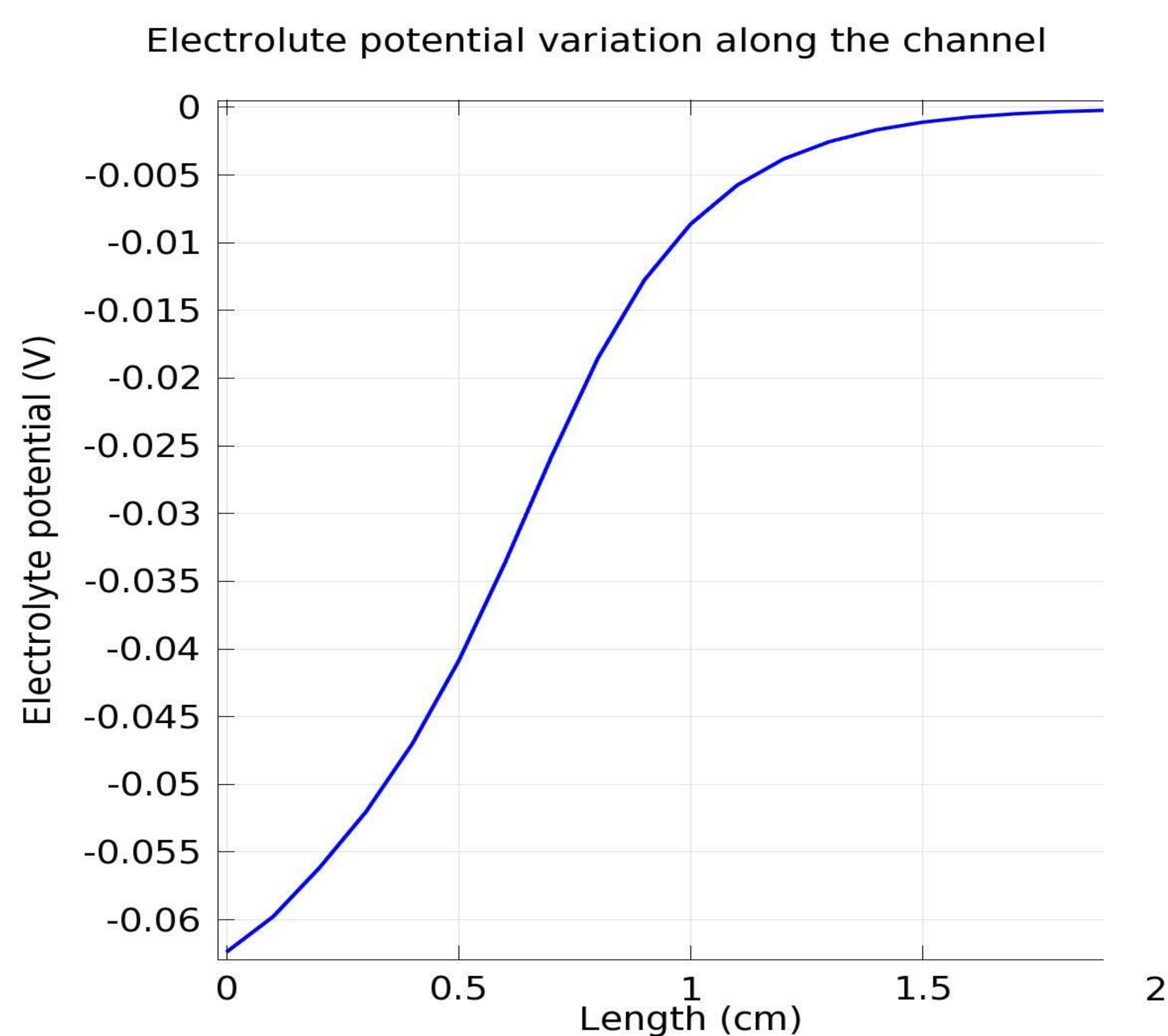


Drop In EP from 3L/4 onwards, chance of carbon corrosion

Heavy oxygen starvation

Atmospheric humidity increased by 50%

Max Power Density: 140 mW/cm<sup>2</sup>



Drop in EP from L/4 onwards, high chance of carbon corrosion