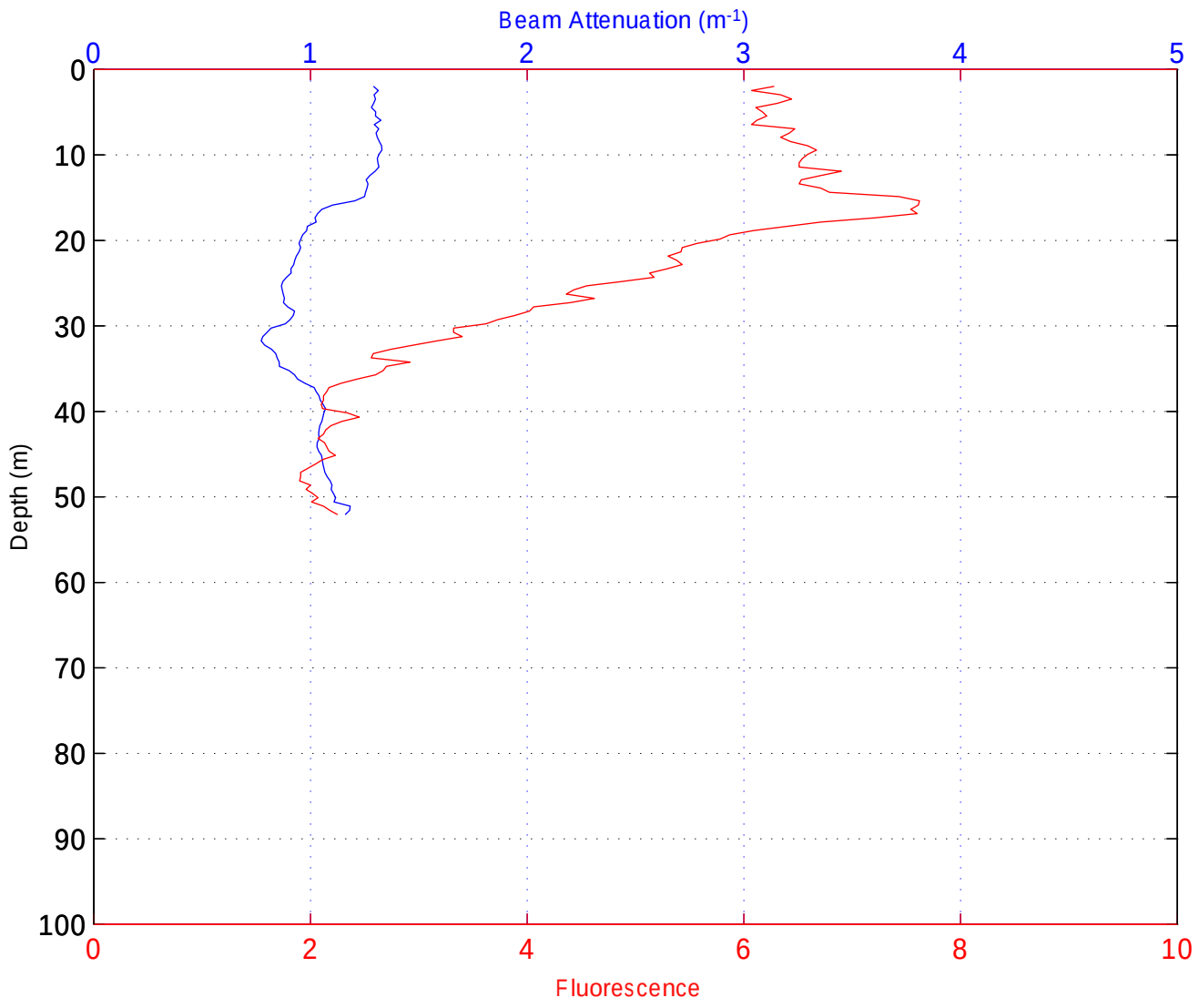Endeavor Cast 7: Beam Attenuation and Fluorescence