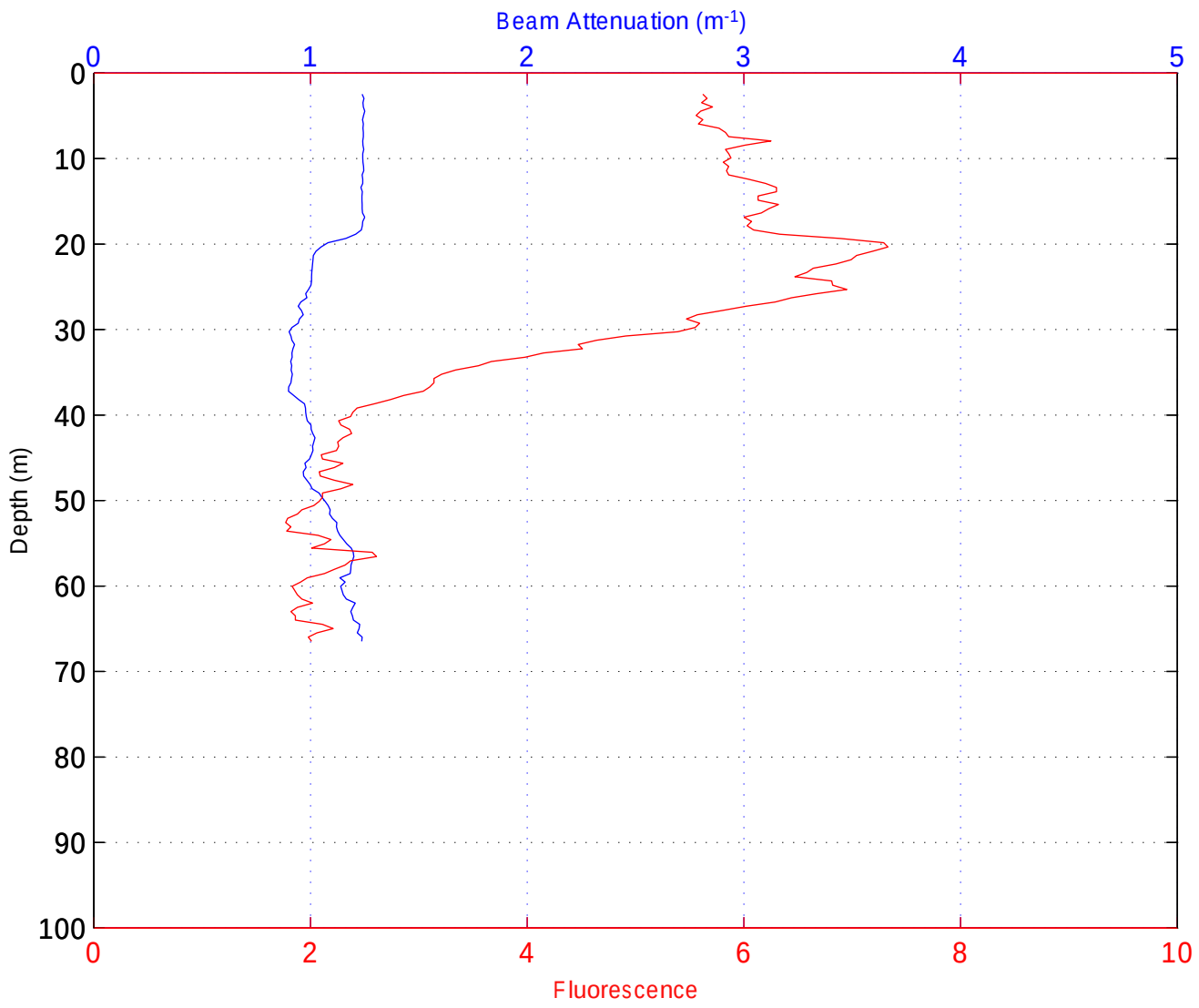Endeavor Cast 5: Beam Attenuation and Fluorescence