Description of Additional Supplementary Files

File Name: Supplementary Movie 1
Description: Select magnetic field lines drape over the surface of the asteroid (shown in transparent gray). The field lines are colored by their strength relative to the incoming solar wind values. The field lines were integrated from points evenly spaced along a line across the bottom boundary ($y = \hat{\alpha}r_{\text{asteroid}} & z = 0$), as well as from points within a circle of radius $3r_{\text{asteroid}}$ centered at the center of the asteroid. The slice inside the asteroid shows the azimuthally symmetric resistivity structure. The asteroid is stationary to highlight the field amplification. To see how this relates to magnetization acquisition for a rotating asteroid, see Parent body rotation in the Supplementary Information document.