



Extended Data Figure 2 | Rotation periods for different activity models.

Absolute magnitudes based on Swift/UVOT photometry (black circles) are corrected for different relationships (characterized by A) between the activity of the comet and its distance to the Sun (see Methods). An

increase in A corresponds to an increase in the rotation period that is needed to phase the overlapping sine curve segment (red triangles). Top, $A = 0$, period = 46 h; middle, $A = 28$, period = 57 h; bottom, $A = 35$, period = 60 h. Error bars indicate 1σ stochastic uncertainties.