

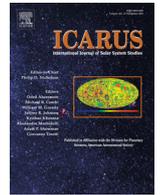


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Corrigendum

Corrigendum to “Impact and Cratering Rates onto Pluto” [Icarus 258 (2015) 267–288]



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The authors regret that an error was found in the code used to compute Charon primary crater densities by mistakenly using Pluto's diameter instead of Charon's diameter, causing the Charon cumulative crater density plots and R-plots (Figure 12) to have values that were too low by a factor of $\approx 1200^2/600^2 \approx 4$. The corrected figure presented here implies younger surface ages (by roughly a factor of four) for Charon and should be used for interpretation of the New Horizons data.

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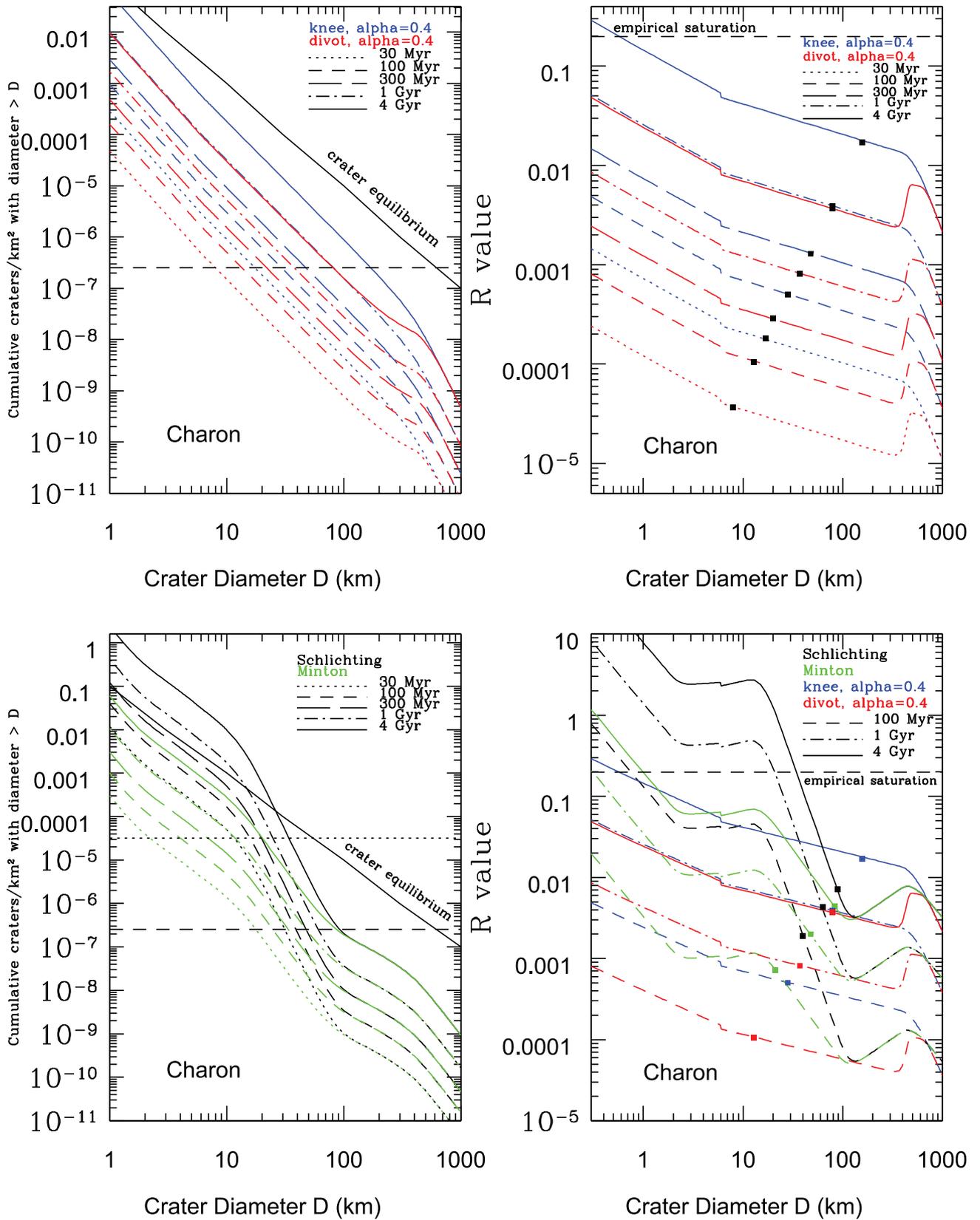


Fig. 1. Corrected Figure 12. Top Left: Cumulative crater density plot for Charon. The horizontal dashed line at 2.2×10^{-7} corresponds to 1 crater/Charon surface. Top Right: Relative crater frequency plot for Charon, where the black squares correspond to 1 crater/Charon surface on a cumulative plot, so nothing to the right of the dots will likely be visible on Charon's post-Kuiper-belt-installation (≤ 4 Gyr old) terrains, except by statistical fluctuation. Bottom Left: Cumulative crater density plot for Charon, where the horizontal dashed line at 2.2×10^{-7} corresponds to 1 crater/Charon surface and the horizontal dotted line at 3.2×10^{-5} corresponds to 1 crater/surface area of the largest "fresh" crater ($D \geq 50$ km) and its ejecta blanket ($D \sim 100$ km) likely to form on Charon in 1 Gyr. Bottom Right: Relative crater frequency plot for Charon, where the colored squares correspond to 1 crater/Charon surface on a cumulative plot, so nothing to the right of those dots will likely be visible on Charon's post-installation (≤ 4 Gyr old) terrains.