# Active Particulate Surfaces on Asteroids and Comets

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**Abstract**. Recent spacecraft visits have revealed active regolith surfaces on asteroids, as evidenced by crater erasure, mass motions, boulder distributions, size sorting, pits and linear structural features (fractures). Comets too exhibit wildly diverse geologies that imply active modification of their particulate surfaces, with fluidized flows and erosion. Comets lift particles off their surfaces, and at least a few asteroids ("main belt comets") do so as well. Although basic physical properties like bulk densities and cohesion remain poorly constrained, a picture is emerging that comet and asteroid surfaces are geologically active, porous and mechanically weak, so that surface particulates are readily mobilized.