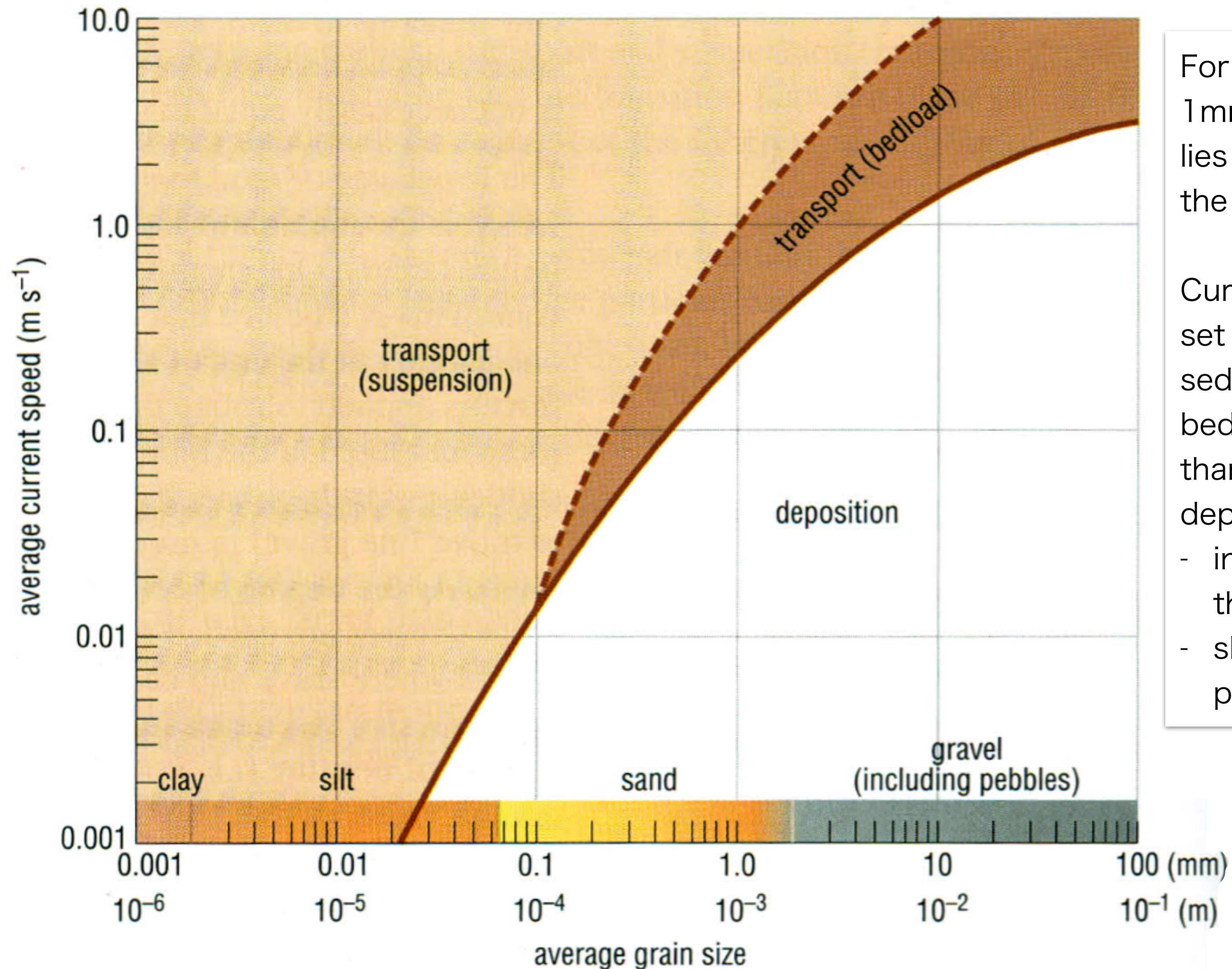


Sediment erosion/transport/deposition

relationship between averaged grain size and averaged current speed above which sediments are transported and below which they are deposited



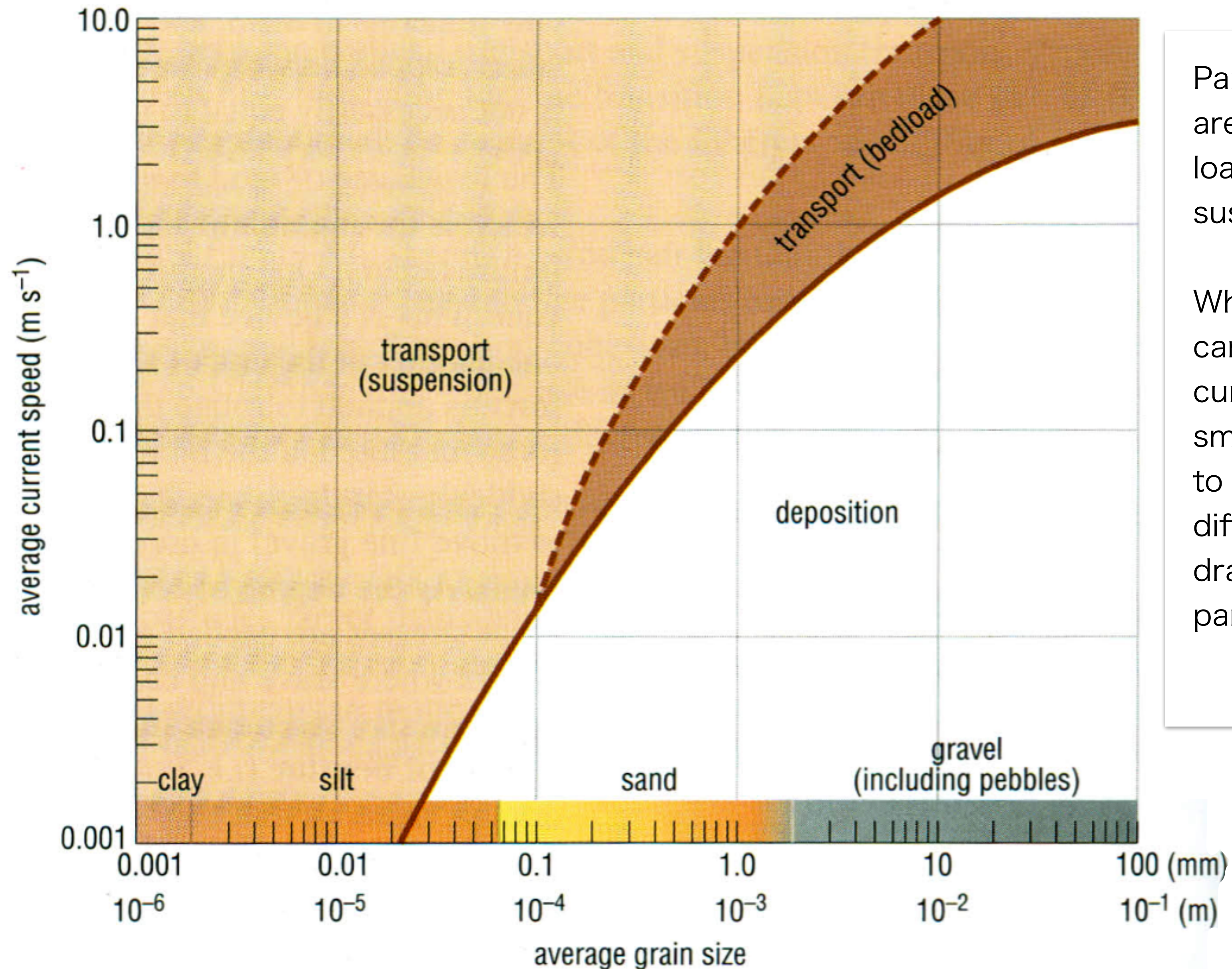
For particles larger than 1 mm the deposition curve lies close to but just below the erosion curve.

Current speeds required to set these non-cohesive sediments in motion in the bed load are slightly greater than those at which they are deposited due to:

- inertia of the particles on the bed and
- shelter effect of large particles on smaller ones.

Sediment erosion/transport/deposition

relationship between averaged grain size and
averaged current speed above which sediments are
transported and below which they are deposited



Particles lower than 0.1 mm are not transported in bed load but directly taken into suspension.

When in suspension they can be transported at current speeds very much smaller than those required to erode them and the difference increases dramatically with decreasing particle size.