Put into terms of a stagnant film, that implies something on order of 30 nanometers. Put in terms of a renewal rate, it's on order of a megaHertz. So they have eddies that on order of a few tens of nanometers with frequencies on order of 10^6 cycles per second. Those scales are on order of free molecular dynamics , not bulk fluid motions (meaning they are order of the mean free path and number of collisions per second, I think).Not sure, but I also think that is getting close to being the same order of magnitude of the collision rate of the gas with the surface, so that they should be seeing air-side rate control, or maybe interfacial control.So, no, I think it's bullshit and whoever reviewed that paper had their head up their ass.But as Peter Liss said, their numbers might be right, but their

interpretation of them is highly flawed.