

Category:	1) Dust storms • near major lifting sites (Hellas, Claritas)			2) Category 2 [working characterization] • Different morphology from category 1 (except struc 0) • more spatially intermittent: surface often visible among clouds • more 'cloud'-like, 'puffy' (certain cases)			3) Gravity waves			Convective structure Dust storms, category 1	Opacity, qualitative (apparent visual obscuration) Dust storms, category 1	Opacity, quantitative τ_d (9- μ m) approximation Dust storms, category 1
struc = 3	63, 0, 0 3F0000 113	123	133	255, 153, 0 FF9900 213	223	233	0, 63, 0 003F00 313	323	333	convective structure = high • large kanoobs • strong shadows/contrast	visually opaque • surface features completely obscured	$\tau_d \geq 1.0$
struc = 2	159, 0, 0 9F0000 112	79, 31, 79 4F1F4F 122	132	255, 204, 0 FFCC00 212	222	232	0, 159, 0 009F00 312	0, 127, 79 007F4F 322	332	convective structure = medium • medium kanoobs • medium shadows/contrast • dust spatially intermittent (minimal)	visually opaque • surface features obscured (or partially) • ..	$\tau_d \geq 1.0$ $\tau_d \geq 0.5$
struc = 1	255, 0, 0 FF0000 111	127, 51, 127 7F337F 121	0, 102, 255 0066FF 131	255, 255, 0 FFFF00 211	127, 127, 127 7F7F7F 221	0, 0, 255 0000FF 231	0, 255, 0 00FF00 311	0, 204, 127 00CC7F 321	0, 153, 255 0099FF 331	convective structure = low • [small kanoobs] • small shadows/contrast (but present) • dust spatially intermittent • plumes ('small' plumes in craters)	visually diffuse • surface features visible (or partially) • ..	
struc = 0	255, 191, 191 FFBFBF 110	120	130	255, 255, 204 FFFCC 210	220	230	N/A	N/A	N/A	Convective structure = 0 => Range of possibilities, from: • optically thin haze • optically visible/thick dust • no shadows/contrast • optically thin haze	Full range possible: • surface features visible (optically thin haze) • surface features obscured (optically thick dust)	$\tau_d \leq 0.35$ (optically thin haze) $\tau_d \geq 1.0$ (optically thick dust)
Structure \uparrow / τ_{ice} / \rightarrow	$\tau_{ice} < 0.15$ low	$\tau_{ice} \geq 0.15$ medium	$\tau_{ice} \geq 0.25$ high	$\tau_{ice} < 0.15$ low	$\tau_{ice} \geq 0.15$ medium	$\tau_{ice} \geq 0.25$ high	$\tau_{ice} < 0.15$ low	$\tau_{ice} \geq 0.15$ medium	$\tau_{ice} \geq 0.25$ high			