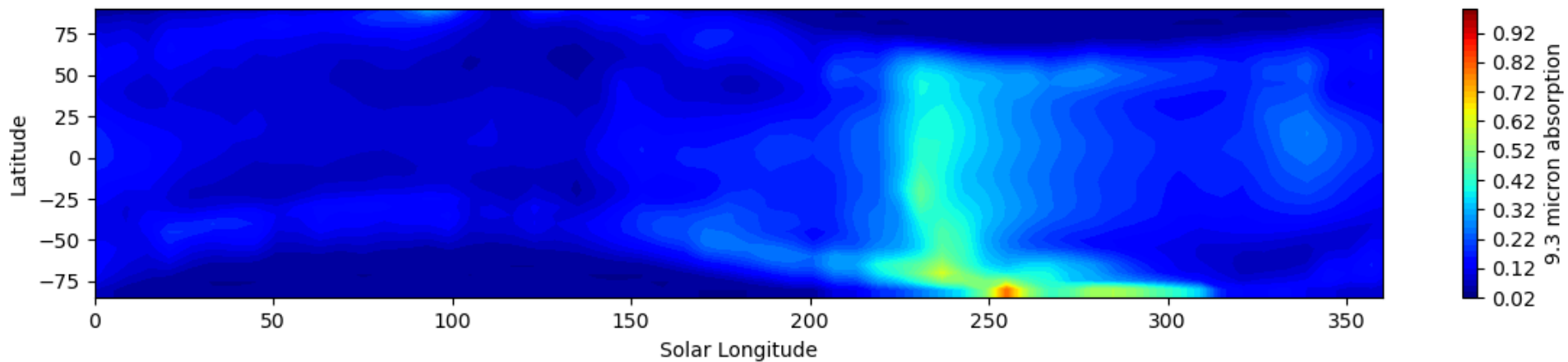Column Dust Optical Depth Dust Scenarios