

The scattering coefficients provided by a 3-1 airborne nephelometer show a high dust content zone between 8° and 12,5°N. The soil of this region is covered 1 implies that local emissions of soil dust is not possible. The comparison of both simulations, with sedimentation [SED] and without sedimentation [NOSED], illus edimentation process that involves the presence of dust particles from the Saharan Air Layer in the Monsone Flux. red by vegetation which

North of the ITD where the SAL is linked with the surface, the sedimentation process involves dry deposition of dust particles to the surface (mainly coarse mode), decreasing their mass concentration (of 40%) in altitude. South of the ITD, the SAL is decoupled and thus, the sedimentation process implies the presence of two layers. One where dust particles accumulate (maximum gain: 3000%) and another one where the dust particle concentration decrease (maximum losses: 80%).

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