

SOP2a2 (NIAMEY) Mineral dust Ę4 🗖 Quartz Feldspar
Clay, Mica SOP2a1 (NIAMEY) Amph. Garn #51 13 Aug06 #52 14 Aug06 #56 17 Aug06 Ę4 Calcite ab 3 Dolomite SOP2a2 (COTONOU) SeaSalt + Dust SeaSalt (fresh) SeaSalt (aged) □ Sulfate Biomass Burr Biogenic Unkno Sea Salt ☆ : CVI sample #45 08 Aug06 #46 09 Aug06



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S in-cloud Cl in-cloud

ependence on relative humidity etection frequencies of S and Cl elements in silicate articles (Quartz, Aluminosilicate I + II) plotted against the elative humidity at which they were collected. Samples ollected in-cloud and clear-sky conditions are compared. high RH% and eventual immersion into droplet → increased ptake coefficient of acidic gases on mineral dust.

Both Silicate and Calcite particles were found as cloud residues. It is highly probable that the observed formation of soluble materials enhanced their cloud nucleating abilities