

On the subsurface CO₂ storage in Mars

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In the Martian history large amount of CO₂ atmosphere is considered to be sealed in the subsurface region. In this presentation we review possible styles of this subsurface storage of CO₂. Particularly we discuss possibility of CO₂ hydrate. Although CO₂ hydrate is a plausible and fascinating candidate and there appears geomorphological evidence which indicates its existence, the high pressure nature of its stability field sets a severe constraint for the formation process.