



Contribution ID: 64

Type: **not specified**

Parameterizing Trace Gas - Ice Interactions: A look into laboratories

Wednesday, 8 June 2011 10:00 (15 minutes)

Recent laboratory experiments that investigated the interaction of atmospheric trace gases with ice surfaces under tropospheric conditions are presented. Key-Questions are

- a) the importance of surface versus bulk uptake of trace gases
- b) the effect of trace gas adsorption on the quasiliquid layer
- c) the influence of the presence of an additional, coadsorbing trace gas on the uptake

I will also shortly address how the laboratory results are usually described mathematically and compare this to the parameterization in recent 1-D snow-pack models.

Please list some keywords

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Session Classification: Modeling Workshop